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...and...

Year Book

of the

Breadstuffs Industries

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"A BAKER CANNOT RAISE THE STANDARD OF HIS LOAF ABOVE THE STANDARD OF THE FLOUR HE USES"

Town Crier
FLOUR

TO THE DISTRIBUTOR

TOWN CRIER FLOUR insures a clean, growing business with a pleased trade and an assured sound profit.

TO THE BAKER

TOWN CRIER FLOUR means the best loaf of bread in his sales field, with customers thinking more about the goodness of the loaf than how much it cost.

Honest high quality invites price comparison

If there were dreams to sell,
Merry and sad to tell,
And the crier rung his bell,
What would you buy?
T. L. Beddoes - 1840

THE MIDLAND FLOUR MILLING CO.
KANSAS CITY

The Northwestern Miller

In Two Sections—Section Two | MINNEAPOLIS, MINN., U. S. A., APRIL 1, 1931 | Volume 166 Number 1

GENERAL INFORMATION FOR MILLING, BAKING AND FLOUR TRADES

A Section Devoted to Trade Laws, Definitions and Regulations, Data Regarding Domestic and Foreign Markets and Other Miscellaneous Information of Particular Interest to the Manufacturer, Consumer or Distributor of Flour and Feed.

UNITED STATES FEDERAL GRADES FOR WHEAT

ON Aug. 11, 1916, the President approved the United States grain standards act, whereby the Secretary of Agriculture was authorized to establish standards of quality and condition for wheat and other grain. After extensive hearings, the first federal wheat grades were promulgated on March 31, 1917, in Service and Regulatory Announcement (S. R. A.) No. 22. The effect of these new standards was on the whole satisfactory, but experience showed that certain changes were desirable, and accordingly an amended schedule of wheat standards was issued April 15, 1918 (S. R. A. No. 33). Further extensive changes were made by an order of the Secretary of Agriculture issued in May, 1924. The standards now in effect are given in Handbook U. S. G. S. A. form 90 issued by the United States Department of Agriculture.

DEFINITIONS

Under the revised standards, the term "wheat" includes "any grain which, before the removal of dockage, contains 50 per cent or more of wheat, and when free from dockage contains not more than 10 per cent of grain of a kind or kinds other than wheat, and shall not include emmer, spelt, einkorn, Polish and poulard wheat."

Each determination of dockage, moisture, temperature, odor, onions, garlic, and live weevils or other insects injurious to stored grain shall be upon the basis of the grain including dockage. All other determinations shall be upon the basis of the grain when free from dockage.

Dockage includes sand, dirt, weed seeds, weed stems, chaff, straw, grain other than wheat, and any other foreign material which can be removed readily from the wheat by the use of appropriate sieves, cleaning devices, or other practical means suited to separate the foreign material present; also undeveloped, shriveled, and small pieces of wheat kernels removed in properly separating the foreign material, and which cannot be recovered by properly rescreening or recleaning. The quantity of dockage shall be calculated in terms of percentage based on the total weight of the grain including the dockage. The percentage of dockage so calculated, when equal to 1 per cent or more, shall be stated in terms of whole per centum; and when less than 1 per cent shall not be stated. A fraction of a per centum shall be disregarded. The percentage of dockage, so determined and stated, shall be added to the grade designation. Foreign material other than dockage shall include all matter other than wheat which is not separated from the wheat in the proper determination of dockage, except as provided in the case of smutty wheat.

Treated wheat shall be wheat which has been scoured, limed, washed, sulphured or treated in such a manner that its true quality is not reflected by the numerical grade designation, including sample grade, alone.

Weevily wheat shall be all wheat which is infested with live weevils or other insects injurious to stored grain. Weevily wheat shall be graded and designated according to the grade requirements of the standards applicable to such wheat if it were not weevily, and there shall be added to and made a part of, the grade designation the word "Weevily."

Garlicky wheat shall be all wheat which has an unmistakable odor of garlic or wild onions, or which contains garlic or wild onion bulblets in a quantity equal to one or more bulblets in 1,000 grams of wheat.

Smutty wheat shall be all wheat which has an unmistakable odor of smut, or which contains spores, balls, or portions of balls, of smut, in excess of a quantity equal to two balls of average size in 50 grams of wheat.

Cereal grains shall include rye, barley, emmer, spelt, einkorn, Polish wheat, poulard wheat, corn, grain sorghums, oats and rice, and shall not include buckwheat, flaxseed and wild oats.

Heat damaged kernels shall be kernels and pieces of kernels of wheat which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

CLASSES AND SUBCLASSES

Class I: Hard red spring: Including all varieties of hard red spring wheat, with not more than 10 per cent of other wheat or wheats permissible. Subclasses:

Dark northern spring: Wheat of Class I with 75 per cent or more of dark, hard and vitreous kernels, and not more than 10 per cent of humpback.

Northern spring: Wheat of Class I with less than 75 and more than 25 per cent of dark, hard and vitreous kernels, and not more than 10 per cent of humpback.

Red spring: Wheat of Class I with not more than 25 per cent of dark, hard and vitreous kernels, or with more than 10 per cent of humpback.

Class II: Durum: Including all varieties of durum, with not more than 10 per cent of other wheat or wheats permissible. Subclasses:

Amber durum: Wheat of Class II with 75 per cent or more of hard and vitreous kernels of amber color, and not more than 10 per cent of red durum.

Durum: Wheat of Class II with less than 75 per cent of hard and vitreous kernels of amber color, and not more than 10 per cent of red durum.

Red durum: Wheat of Class II with more than 10 per cent of red durum.

Class III: Hard red winter: Including all varieties of hard red winter wheat, with not more than 10 per cent of other wheat or wheats permissible. Subclasses:

Dark hard winter: Wheat of Class III with 80 per cent or more of dark, hard and vitreous kernels.

Hard winter: Wheat of Class III with less than 80 and more than 25 per cent of dark, hard and vitreous kernels.

Yellow hard winter: Wheat of Class III with not more than 25 per cent of dark, hard and vitreous kernels.

Class IV: Soft red winter: Including all varieties of soft red winter wheat, with not more than 10 per cent of other wheat or wheats permissible. Subclasses:

Red winter: Wheat of Class IV with both light and dark colored kernels, and not including more than 10 per cent of soft red winter wheats possessing the characteristics of wheat of this class as grown west of the great plains area.

Western red: Wheat of Class IV with more than 10 per cent of wheat of this class grown west of the great plains area of the United States, or any wheat of this class possessing the characteristics of soft red winter wheat, as grown west of the great plains area of the United States.

Class V: White: Including all varieties of white wheat, winter or spring, with not more than 10 per cent of other wheat or wheats permissible. Subclasses:

Hard white: Wheat of Class V with 75 per cent or more of hard (not soft and chalky) kernels, and not more than 10 per cent of Sonora and/or white club.

Soft white: Wheat of Class V with less than 75 per cent of hard (not soft and chalky) kernels, and not more than 10 per cent of Sonora and/or white club.

Western white: Wheat of Class V, consisting of more than 10 per cent of white club or Sonora, either singly or in combination.

Class VI: Mixed wheat: Including any mixture of wheat not provided for in classes I to V.

GRADE REQUIREMENTS

NOTE.—In all classes, wheat of grades Nos. 1, 2, 3 and 4 shall be cool and sweet, and of grade No. 5 shall be cool, but may be musty or slightly sour.

Sample grade, in all classes, includes wheat which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or which has any commercially objectionable foreign odor, except of smut, garlic, or wild onions, or is very sour, or is heating, hot, or is otherwise of distinctly low quality, or contains small, inseparable stones or cinders.

Hard red spring (dark northern spring, northern spring and red spring):

	1	2	3	4	5
Minimum test weight per bu. lbs	58	57	55	53	50
Maximum per cent of—					
Moisture	14	14.5	15	16	16
Foreign material other than dockage†	1	2	3	5	7
Matter other than cereal grains	0.5	1	2	3	5
Damaged kernels†	2	4	7	10	15
Heat damaged kernels	0.1	0.2	0.5	1.0	3.0
Wheat other than hard red spring†	5	10	10	10	10
Common white, white club and/or durum	2	5	10	10	10

*The grade established in May, 1924, No. 1 hard spring, must consist of 85 per cent or more of dark, hard and vitreous kernels, and must have a minimum test weight per bushel of 60 lbs; otherwise the requirements are the same as for No. 1 dark northern spring. †Totals.

Durum (amber durum, durum and red durum):

	1	2	3	4	5
Minimum test weight per bu. lbs	60	58	56	54	51
Maximum per cent of					
Moisture	14	14.5	15	16	16
Foreign material other than dockage*	1	2	3	5	7
Matter other than cereal grains	0.5	1	2	3	5
Damaged kernels*	2	4	7	10	15
Heat damaged kernels	0.1	0.2	0.5	1	3
Wheat other than durum*	5	10	10	10	10
Common white, white club and/or soft red winter	2	5	10	10	10

*Totals.

NOTE.—No. 1 amber durum and No. 1 durum may not contain more than 3 per cent of red durum.

Hard red winter (dark hard winter, hard winter and yellow hard winter):

	1	2	3	4	5
Minimum test weight per bu. lbs	60	58	56	54	51
Maximum per cent of					
Moisture	13.5	14	14.5	15.5	15.5
Foreign material other than dockage*	1	2	3	5	7
Matter other than cereal grains	0.5	1	2	3	5
Damaged kernels*	2	4	7	10	15
Heat damaged kernels	0.1	0.2	0.5	1	3
Wheat other than hard red winter*	5	10	10	10	10
Durum	2	5	10	10	10

*Totals.

Soft red winter (red winter and western red):

	1	2	3	4	5
Minimum test weight per bu. lbs	60	58	56	54	51
Maximum per cent of					
Moisture	13.5	14	14.5	15.5	15.5
Foreign material other than dockage*	1	2	3	5	7
Matter other than cereal grains	0.5	1	2	3	5
Damaged kernels*	2	4	7	10	15
Heat damaged kernels	0.1	0.2	0.5	1	3
Wheat other than common white*	5	10	10	10	10
Durum	2	5	10	10	10

*Totals.

White wheat (hard white, soft white and western white):

	1	2	3	4	5
Minimum test weight per bu. lbs	60	58	56	54	51
Maximum per cent of					
Moisture	13.5	14	14.5	15.5	15.5
Foreign material other than dockage*	1	2	3	5	7
Matter other than cereal grains	0.5	1	2	3	5
Damaged kernels*	2	4	7	10	15
Heat damaged kernels	0.1	0.2	0.5	1	3
Wheat other than soft red winter*	5	10	10	10	10
Durum	2	3	10	10	10

*Totals.

Mixed wheat shall be graded according to each of the grade requirements contain to all of the subclasses of the class of the wheat which predominates over each other class in the mixture, except that all of the grade requirements in any subclass as to the maximum percentage of other wheat or other varieties of wheat shall be disregarded. The grade designation of mixed wheat shall, except in the case of mixed durum, include, successively, in the order named, the number of the grade or the words "sample grade," as the case may be, the words

INTRODUCTION

FOR nearly a quarter of a century The Northwestern Miller Almanack and Year Book has been the standard fact publication of flour milling, the grain trade, baking and allied and associated industries. For many years it was published in book form and offered for limited sale at one dollar per copy. Since 1928, in pursuance of our policy of giving maximum service to readers, the Almanack has been sent to all subscribers as a special supplement, with no additional charge.

The first aim of the editors of the Almanack is accuracy. Statements of fact and statistical data are not guaranteed to be absolutely accurate, but they are in every instance obtained from the most authoritative sources and their reliability is attested by the fact that the Almanack is constantly accepted as standard authority by various branches of the United States and many state governments, by banking houses, universities, statistical organizations, newspapers and hundreds of concerns and individuals engaged in milling and baking, and in the flour, feed and grain trades.

ACKNOWLEDGMENT

Completeness and accuracy in the Miller's Almanack and Year Book have been made possible only through the cordial co-operation of the many who have been of invaluable aid in assembling and checking included data. The Northwestern Miller especially is indebted to the United States Department of Commerce for its unfailing courtesy and intelligent assistance. It is further under obligation to officials of the United States Department of Agriculture, to the Dominion Bureau of Statistics, to the secretaries of many boards of trade, chambers of commerce and trade associations, and to numerous individuals who never failed to respond promptly and courteously to requests for information.

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GRADES OF UNITED STATES WHEAT (CONTINUED)

"mixed wheat," and, in the order of its predominance, the name and approximate percentage of each class of wheat which constitutes 10 per cent or more of the mixture, but if only one class exceeds 10 per cent of the mixture, the name and approximate percentage of that class shall be added to the grade designation followed by the name and approximate percentage of at least one other class.

Mixed durum shall be mixed wheat consisting of 70 per centum or more of durum wheat other than the variety red durum, and may contain not more than 5 per centum of soft red winter and white wheat, singly or combined. Mixed durum shall be graded according to the requirements of the grades for mixed wheat. The grade designation of mixed durum wheat shall be mixed durum, preceded by the number of the grade, or the words "sample grade," as the case may be.

Treated wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not treated, and there shall be added to, and made a part of, its grade designation a statement indicating the kind of treatment.

Garlicky wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not garlicky, and there shall be added to, and made a part of, its grade designation the word "garlicky."

The regulations provide that "unless issued for an export shipment, in the case of wheat graded 'garlicky' on account of the presence of garlic or wild onion bulblets, there shall be stated in the space for 'remarks' the approximate quantity of garlic or wild onion bulblets present, using the following terms: 'light garlicky,' 'medium garlicky,' or 'heavy garlicky'; 'light garlicky' is defined to mean garlic or wild onion bulblets in an amount equal to one to three bulblets, inclusive, in 1,000 grams; 'medium garlicky' to mean bulblets in an amount equal to 4 to 15 bulblets, inclusive, and 'heavy garlicky' to mean bulblets in an amount equal to more than 15 bulblets in 1,000 grams.

Smutty wheat shall be graded and designated according to the method described either in paragraph (a) or paragraph (b).

(a) Before the determination of smut dockage, as provided in this paragraph, the wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not smutty, except that smut balls shall not be considered as foreign material other than dockage. The loss in weight caused by the removal of smut from the wheat shall be ascertained by scouring, washing, or otherwise, and shall be calculated in terms of percentage based on the total weight of the grain free from dockage. The percentage so calculated shall be stated in terms of whole per cent and half per cent. A fraction of a per cent when equal to, or greater than, a half shall be treated as a half, and when less than a half shall be disregarded. The percentage of the smut dockage, so calculated and stated, shall be added to the grade designation preceding the statement of dockage, if any.

(b) Smutty wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not smutty, except that smut balls shall not be considered as foreign material other than dockage, and when the amount of smut present is so great that any one or more of the grade requirements of the grades from No. 1 to No. 5, inclusive, cannot be applied accurately, the wheat shall be classified as sample grade. For all grades there shall be added to and made a part of the grade designation, preceding the statement of dockage, if any, the word "smutty."

Federal Grain Futures Act

The following summary of the Grain Futures Act of 1922 is based on official reports by the Department of Agriculture:

This legislation was the outgrowth of more than 36 years of congressional discussion and investigation. It was introduced in Congress in 1884 relating to trading in futures, and by 1921 there had been at least 126 such bills introduced, many of which were considered by committees and debated by the Congress. In 1921 Congress enacted legislation (the Future Trading Act of 1921) which attempted, among other things, to bring the grain futures exchanges of the United States under federal supervision and regulation by the exercise of the taxing power. This legislation went into but partial effect, because most of its provisions were held unconstitutional in May, 1922, by the United States Supreme Court. The activity of the Grain Futures Administration was meanwhile confined almost entirely to work done under section 5 of the Future Trading Act, which provided for the making of investigations by the Secretary of Agriculture regarding the operations of boards of trade.

In September, 1922, Congress enacted, under the interstate commerce power, the Grain Futures Act of 1922, having the same general purpose as the Future Trading Act of 1921. The Grain Futures Act was held constitutional on April 16, 1923.

Fourteen exchanges in all have been designated as "contract markets" under the present act. These are the Board of Trade of Chicago and the Open Board of that city, Milwaukee Chamber of Commerce, Minneapolis Chamber of Commerce, Duluth Board of Trade, Kansas City Board of Trade, St. Louis Merchants' Exchange, Baltimore Chamber of Commerce, Grain Trade Association of the San Francisco Chamber of Commerce, Los Angeles Grain Exchange, the Seattle Grain Exchange, the Omaha Grain Exchange, the New York Produce Exchange and the Portland Grain Exchange. The designation for Los Angeles is limited to barley, corn and sorghums.

Section 3 of the Future Trading Act, viz., taxing transactions known as "puts and calls," was one of the provisions not passed upon by the United States Supreme Court in May, 1922, when most of the act was declared unconstitutional. Therefore it remained in force until Jan. 11, 1926, when the Supreme Court declared it invalid, in a suit begun in 1924 to test its constitutionality.

In substance, the conditions to which every board of trade must subscribe before it will be designated as a "contract market," are (a) that it is located at a terminal market where cash grain of the kind specified in the contracts of sale of grain for future delivery is sold in sufficient volumes and under such conditions as fairly to reflect the general value of the grain and the differences in value between the various grades of such grain, and where there is available to such board of trade official inspection service approved by the Secretary of Agriculture for the purpose; (b) that the governing board of the exchange must provide for the making and filing of reports showing certain information as to cash and future transactions by the board members and for the keeping of certain records; (c) that the governing board must provide for preventing the dissemination by its members of false or misleading or knowingly inaccurate reports concerning crop or market information or conditions that affect or tend to affect the price of grain in interstate commerce; (d) that the governing board must provide for the prevention of manipulation of prices or the cornering of any grain on such board; and (e) that membership in such boards must not be denied to lawfully formed and conducted co-operative associations of producers, having adequate financial responsibility, engaged in the cash grain business, which comply and agree to comply with the rules of such boards applicable to other members, with a special proviso to the effect that rules against rebating commissions shall not prevent the distribution of net receipts of such associations to the bona fide members thereof on a patronage basis.

Section 9 authorizes the Secretary of Agriculture to make investigations regarding the operations of the boards of trade and the marketing conditions of grain and grain products and byproducts, and to publish the results thereof.

There are other provisions of the statute which, however, are incidental to its main provisions.

The statute does not restrict speculation in the grain futures markets.

Daily reports received by the Grain Futures Administration, showing the amount of open contracts and the volume of trading in grain futures on the different exchanges, give a complete record of such transactions. Prior to the Grain Futures Act, estimates only were available.

St. Louis—Merchants' Exchange

The first grain exchange in the United States was in St. Louis. It was started in 1836 and was called the Millers' Exchange. Daily hours of trading were observed, and samples of grain and mill products were displayed to members and to flour and grain dealers who were invited to attend its sessions. The Millers' Exchange rivaled in importance the St. Louis Chamber of Commerce, which was founded 13 years previously. The two were consolidated later, and took the name of the St. Louis Merchants' Exchange.

The St. Louis Merchants' Exchange on Jan. 1, 1931, had a membership of 441. About 100 of the number are engaged in the flour trade or are millers. Many of the members engaged in the flour trade are millers outside of St. Louis.

More than half a century ago some St. Louis financiers thought the exchange should have better quarters and should own them. These men purchased a site on Third Street between Pine and Chestnut streets, for which they paid $561,700.

Upon this site was erected a building costing over $1,500,000. This, now occupied by the St. Louis Merchants' Exchange, contains the largest trading hall in the world. The structure was completed in 1875 but did not until April 1, 1908, become the unincumbered property of the exchange.

Officers of the exchange: A. V. Imbs, president; E. F. Mangelsdorf, first vice president; Louis T. Hall, second vice president; C. B. Rader, secretary-treasurer.

THE AGRICULTURAL MARKETING ACT

The Agricultural Marketing Act became a law on June 14, 1929, when President Hoover signed the measure. Its purposes as outlined in Section 1 are:

"That it is hereby declared to be the policy of Congress to promote the effective merchandising of agricultural commodities in interstate and foreign commerce, so that the industry of agriculture will be placed on a basis of economic equality with other industries, and to that end to protect, control and stabilize the currents of interstate and foreign commerce in the marketing of agricultural commodities and their food products."

The act provides for a board of nine members, including the Secretary of Agriculture, each to receive $12,000 a year and to serve for terms of one to six years, their successors to serve for six years. The board is authorized to invite co-operative associations to designate advisory committees of seven members each for the various agricultural commodities, such committees to receive $20 a day when serving and to meet twice a year. The most important provisions of the act follow:

"Sec. 6. There is hereby authorized to be appropriated the sum of $500,000,000 which shall be made available by the Congress as soon as practicable after the approval of this act and shall constitute a revolving fund to be administered by the board as provided in this act.

"Sec. 7. (a) Upon application by any co-operative association the board is authorized to make loans to it from the revolving fund to assist in: (1) the effective merchandising of agricultural commodities and food products thereof; (2) the construction or acquisition by purchase or lease of physical marketing facilities for preparing, handling, storing, processing, or merchandising agricultural commodities or their food products; (3) the formation of clearing house associations; (4) extending membership of the co-operative association applying for the loan by educating the producers of the commodity handled by the association in the advantages of co-operative marketing of that commodity; and (5) enabling the co-operative association applying for the loan to advance to its members a greater share of the market price of the commodity delivered to the association than is practicable under other credit facilities. . . .

"(c) Loans for the construction or acquisition by purchase or lease of physical facilities shall be subject to the following limitations: (1) No such loan for the construction or purchase of such facilities shall be made in an amount in excess of 80 per cent of the value of the facilities to be constructed or purchased. (2) No loan for the purchase or lease of such facilities shall be made unless the board finds that the purchase price or rent to be paid is reasonable. (3) No loans for the construction, purchase, or lease of such facilities shall be made unless the board finds that there are not available suitable existing facilities that will furnish their services to the co-operative association at reasonable rates; and in addition to the preceding limitation, no loan for the construction of facilities shall be made unless the board finds suitable existing facilities are not available for purchase or lease at a reasonable price or rent.

"(d) Loans for the construction or purchase of physical facilities, together with interest on the loans, shall be repaid upon an amortization plan over a period not in excess of 20 years.

"Sec. 8. (a) Loans to any co-operative association or stabilization corporation and advances for insurance purposes shall bear interest at a rate of interest per annum equal to the lowest rate of yield (to the nearest one eighth of 1 per cent) of any government obligation bearing a date of issue subsequent to April 6, 1917 (except postal-savings bonds), and outstanding at the time the loan agreement is entered into or the advance is made by the board, as certified by the Secretary of the Treasury to the board upon its request: Provided, That in no case shall the rate exceed 4 per cent per annum on the unpaid principal. . . .

"(d) No loan or insurance agreement shall be made by the board if in its judgment the agreement is likely to increase unduly the production of any agricultural commodity of which there is commonly produced a surplus in excess of the annual marketing requirements.

"Sec. 9. (a) The board may, upon application of the advisory commodity committee for any commodity, recognize a stabilization corporation if: (1) The board finds that the marketing situation with respect to the agricultural commodity requires or may require the establishment of a stabilization corporation in order effectively to carry out the policy declared in section 1; and (2) the board finds that the corporation is duly organized under the laws of a state or territory; and (3) the board finds that all the outstanding voting stock or membership interests in the corporation are and may be owned only by co-operative associations handling the commodity; and (4) the corporation agrees with the board to adopt such by-laws as the board may from time to time require, which by-laws, among other matters, shall permit co-operative associations not stockholders or members of the corporation to become stockholders or members therein upon equitable terms.

"(b) Any stabilization corporation for an agricultural commodity (1) may act as a marketing agency for its stockholders and members in preparing, handling, storing, processing, and merchandising for their account any quantity of the agricultural commodity or its food products, and (2) for the purpose of controlling any surplus in the commodity, in furtherance of the policy declared in section 1, may prepare, purchase, handle, store, process and merchandise, otherwise than for the account of its stockholders and members, any quantity of the agricultural commodity or its food products, whether or not such commodity or products are acquired from its stockholders or members.

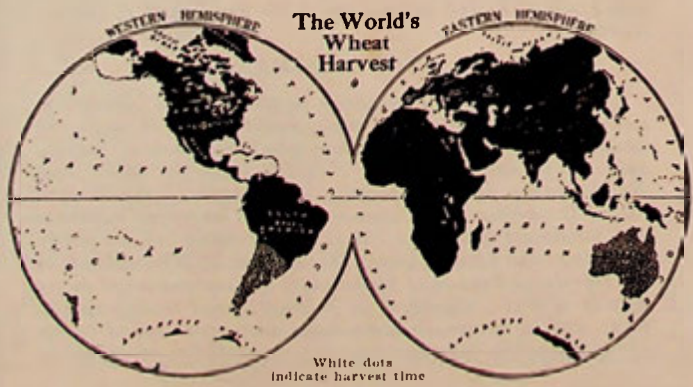
"(c) Upon request of the advisory committee for any commodity the board is authorized to make loans from the revolving fund to the stabilization corporation for the commodity for working capital to enable the corporation to act as a marketing agency for its stockholders or members as hereinbefore provided. Not less than 75 per cent of all profits derived by a stabilization corporation each year from operations as such a marketing agency shall be paid into a merchandising reserve fund to be established by the corporation. No such payment shall be required whenever the fund is in such amount as, in the judgment of the board, constitutes a sufficient reserve for such operations of the corporation. Out of the remainder of such profits for the year the corporation shall repay any outstanding loan made under this subdivision and the accrued interest thereon, or if such loan and accrued interest have been fully repaid, then it may distribute a patronage dividend to its stockholders or members. Such patronage dividend shall be paid to each stockholder or member on the basis of the total volume of the commodity or its products for the year marketed for his account through the corporation.

"(d) Upon request of the advisory committee for any commodity the board is authorized to make loans from the revolving fund to the stabilization corporation for the commodity to enable the corporation to control any surplus in the commodity as hereinbefore provided and for meeting carrying and handling charges and other operating expenses in connection therewith. The board shall require a stabilization corporation to establish and maintain adequate reserves from its profits from its surplus control operations before it shall pay any dividends out of such profits. All losses of the corporation from such operations shall be paid from such reserves, or if such reserves are inadequate, then such losses shall be paid by the board as a loan from the revolving fund. Any amounts so loaned for payment of losses shall be repaid into the revolving fund by the corporation from future profits from its surplus control operations. Any stabilization corporation receiving loans under this subdivision for surplus control operations shall exert every reasonable effort to avoid losses and to secure profits, but shall not withhold any commodity from the domestic market if the prices have become unduly enhanced, resulting in distress to domestic consumers. Stockholders or members of the corporation shall not be subject to assessment for any losses incurred in surplus control operations of the corporation.

"(e) A stabilization corporation shall keep such accounts, records and memoranda, and make such reports with respect to its transactions, business methods, and financial condition, as the board may from time to time prescribe; shall permit the board to audit its accounts annually and at such other times as the board deems advisable; and shall permit the board, upon its own initiative or upon written request of any stockholder or member, to investigate the financial condition and business methods of the corporation."

In addition, the law provides clearing house and insurance plans, as follows:

"Sec. 10. Upon application of any co-operative association handling an agricultural commodity or of producers of an agricultural commodity, the board is authorized if it deems such association or producers representative of the commodity, to assist in forming producer-controlled clearing house associations adapted to effecting the economic distribution of the agricultural commodity among the various markets and to minimizing waste and loss in the marketing of the commodity, if such assistance, in the judgment of the board, will be in furtherance of the policy declared in Section 1. The board may provide for the registration, and for the termination of the registration, of any clearing house association in accordance with such regulations as the board may prescribe. Such clearing house associations are authorized to operate under rules adopted by the member co-operative associations and approved by the board. Independent dealers in, and handlers, distributors, and processors of the commodity, as well as co-operative associations handling



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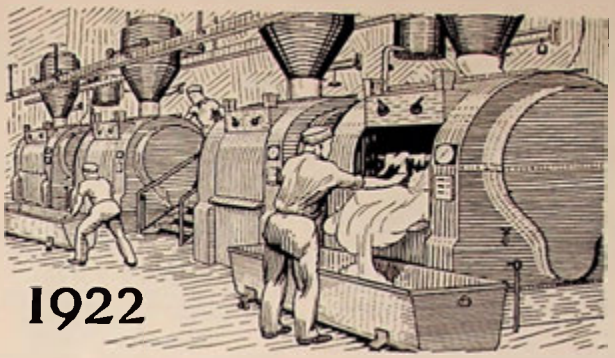


1922

1931

UNITED BAKERIES CORPORATION FORMED

NOTABLE TRADE EVENTS

UNITED STATES bakers ask for the use of the word "clear" for second grades. 1895.

Fraternity of Operative Millers organized. 1896.

Drawback regulations covering the milling of imported wheat first issued. 1905.

United States Circuit Court of Appeals decides bleached flour case in favor of process. 1913.

Flour mills of Canada placed under license system. 1918.

United Bakeries Corporation formed, a forerunner of the large consolidations of baking companies in the succeeding five years. This was strictly a holding corporation and brought 19 plants under one control. The corporation now is part of the Continental Baking Corporation. 1922.

United States standards for bread became effective. 1923.

Dust explosion in the plant of the Corn Products Refining Co. at Pekin, Ill., causing the death of 42 employees and property loss of $1,000,000. 1924.

Agricultural experts inaugurate campaign to check the ravages of smut in the Northwest. 1926.

Articles filed for the incorporation of the Ward Food Products Corporation. 1926.

General Mills, Inc., acquires the Sperry Flour Co., San Francisco. 1929.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week		T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
Minneapolis	Sun Rises H. M.	7 30	7 30	7 30	7 30	7 30	7 30	7 29	7 29	7 29	7 29	7 28	7 28	7 28	7 27	7 27	7 26	7 26	7 25	7 24	7 24	7 23	7 22	7 22	7 21	7 21	7 20	7 18	7 17	7 16	7 15	7 14
Mean Time	Sun Sets H. M.	4 39	4 40	4 41	4 42	4 43	4 44	4 45	4 46	4 47	4 48	4 49	4 50	4 51	4 53	4 54	4 55	4 56	4 57	4 59	5 00	5 01	5 02	5 03	5 05	5 05	5 06	5 08	5 09	5 10	5 11	5 13	5 14

the commodity, shall be eligible for membership in the clearing house association: provided, That the policy of such clearing house association shall be approved by a committee of producers which, in the opinion of the board, is representative of the commodity. Clearing house associations shall utilize the market news service and other facilities of the Department of Agriculture as far as possible.

"Sec. 11. The board is authorized, upon application of co-operative associations, to enter into agreements, subject to the conditions hereinafter specified, for the insurance of the co-operative associations against loss through price decline in the agricultural commodity handled by the associations and produced by the members hereof.

"Such agreements shall be entered into only if, in the judgment of the board, (1) coverage is not available from private agencies at reasonable rates, (2) the insurance will be in furtherance of the policy declared in Sec. 1, (3) the agricultural commodity is regularly bought and sold in the markets in sufficient volume to establish a recognized basic price for the market grades of the commodity and (4) there is available with respect to the commodity such market information as will afford an accurate record of prevailing prices for the commodity covering a period of years of sufficient length to serve as a basis to calculate the risk and fix the premium for the insurance.

"The agreements shall require payment of premiums so fixed and shall include such other terms as, in the judgment of the board, are necessary. The board may make advances from the revolving fund to meet obligations under any insurance agreement, but such advances, together with the interest thereon, shall, as soon as practicable, be repaid from the proceeds of insurance premiums."

FEDERAL FARM BOARD

President Hoover appointed the following as members of the Federal Farm Board: Alexander Legge, chairman; James C. Stone, vice chairman; C. B. Denman, Carl Williams, Charles C. Tague, Charles S. Wilson, W. F. Schilling, Samuel R. McKelvie, Arthur M. Hyde, Secretary of Agriculture, ex officio. In February, 1930, Alexander Legge resigned as chairman and was succeeded by James C. Stone.

FARMERS' NATIONAL GRAIN CORPORATION

Articles of incorporation of the Farmers' National Grain Corporation were filed in Delaware, Oct. 29, 1929. Its capital stock is limited to $10,000,000. The purposes and activities of the corporation as outlined in the articles are:

"To promote and provide a medium for unity of effort by farmers and their associations in the handling and marketing of wheat and other grains; to reduce waste in the marketing of grain, and effect economies with reference thereto; and to do anything that is conducive to carrying out the policy of the Congress of the United States of America stated in the Agricultural Marketing Act, approved June 15, 1929. The word grain, as used in this certificate, shall include all grains and field seed which the Federal Farm Board hereinafter mentioned shall determine are covered by said words.

"To establish, maintain, and provide facilities in any grain market or elsewhere for efficiently and economically handling and marketing, in any capacity and on any basis that may be agreed upon, wheat and other grain, to prepare, grade, test and mix the same for market, to buy, sell and distribute the same, and do anything that is conducive to any of said purposes.

"To lease, purchase, or construct storage and other physical facilities for the storing, handling, preparing for market, and marketing of grain, which cannot reasonably be provided through local or regional co-operative activities of stockholders hereof, such as storage and marketing facilities for grain at diversion or other points and at terminal markets."

Only farmers' co-operative associations meeting the provisions of the Capper-Volstead act may subscribe for stock in the corporation, which must be done on a basis of one $100 share for each 2,000 bus of all grains handled by the co-operatives. No patronage dividends will be distributed until the capital and surplus reach $20,000,000. Dividends on all stock are limited to 8 per cent.

Five districts are set up by the articles of incorporation, within which the stockholders are located. District No. 1 is composed of the states of Kansas, Oklahoma, Colorado and Texas; Kansas City, Mo., is also included in this district. District No. 2 includes the states of Michigan and Missouri; District No. 3, Wisconsin, Minnesota, North Dakota, South Dakota and Montana; District No. 4, California, Oregon, Washington and Idaho; District No. 5, Illinois, Iowa, Nebraska and Wyoming. Seventeen of the 19 authorized directors are from these districts. The American Farm Bureau Federation names one director and the National Grange another. General and active management of the corporation is in the hands of George S. Milnor.

GRAIN STABILIZATION CORPORATION

Early in February, 1930, the Grain Stabilization Corporation was incorporated in Delaware, and under its charter was empowered to engage in all the activities provided for under the Agricultural Marketing Act. The wheat advisory committee recommended to the Federal Farm Board that it recognize the corporation. Accordingly, the board recognized the corporation as a stabilization organization and provided it with an initial loan of $10,000,000.

The corporation is composed solely of qualified Capper-Volstead grain co-operatives and its membership is open to all such co-operatives. The various members have waived all rights or claims to any profits which may accrue from its operations, to the end that all profits and losses will fall upon the revolving fund provided in the Agricultural Marketing Act.

Officers of the corporation are: George S. Milnor, president and general manager; S. J. Cottington and E. V. Maltby, vice presidents; C. E. Huff, secretary; Ward M. Burdick, treasurer.

Federal Bread Standards

The food standards committee has proposed the following revised definitions for breads, which involve no material changes from previous definitions except in the cases of milk bread and Boston brown bread. A definition for whole wheat bread has been added.

White bread is the product, in the form of loaves or smaller units, obtained by baking a leavened and kneaded mixture of flour, potable water, edible fat or oil, sugar and/or other fermentable carbohydrate substance, salt, and yeast; with or without the addition of milk or a milk product, of diastatic and/or proteolytic ferments, and of such limited amounts of unobjectionable salts as serve solely as yeast nutrients. The flour ingredient may include not more than 3 per cent of other edible farinaceous substance. White bread contains, one hour or more after baking, not more than 38 per cent of moisture. The name "bread" unqualified is commonly understood to mean white bread.

Whole wheat bread, entire wheat bread, graham bread, is the product in the form of loaves or smaller units, obtained by baking a leavened and kneaded mixture of whole wheat flour, potable water, edible fat or oil, sugar and/or other fermentable carbohydrate substance, salt, and yeast; with or without the addition of milk or a milk product, of diastatic and/or proteolytic ferments, and of such limited amounts of unobjectionable salts as serve solely as yeast nutrients. It contains, one hour or more after baking, not more than 38 per cent of moisture.

Milk bread is the product, in the form of loaves or smaller units, obtained by baking a leavened and kneaded mixture of flour, milk or its equivalent, edible fat or oil, sugar and/or other fermentable carbohydrate substance, salt, and yeast; with or without the addition of diastatic and/or proteolytic ferments, and of such limited amounts of unobjectionable salts as serve solely as yeast nutrients. The flour ingredient may include not more than 3 per cent of other edible farinaceous substance. The milk may be replaced in whole or in part by its equivalent in whole milk solids and potable water in the proportions normal to milk. Milk bread contains, one hour or more after baking, not more than 38 per cent of moisture.

Raisin bread is the product, in the form of loaves or smaller units, obtained by baking a leavened and kneaded mixture of flour, potable water, edible fat or oil, sugar and/or other fermentable carbohydrate substance, salt, and yeast, with the addition of raisins, with or without the addition of milk or a milk product, of diastatic and/or proteolytic ferments, and of such limited amounts of unobjectionable salts as serve solely as yeast nutrients. The flour ingredient may include not more than 3 per cent of other edible farinaceous substance. The finished product contains not less than 3 oz of raisins to the pound.

Rye bread is the product, in the form of loaves or smaller units, obtained by baking a leavened and kneaded mixture of rye flour, or of rye flour and wheat flour, with potable water, edible fat or oil, sugar and/or other fermentable carbohydrate substance, salt, and yeast, with or without the addition of milk or a milk product, of diastatic and/or proteolytic ferments, and of such limited amounts of unobjectionable salts as serve solely as yeast nutrients. The total flour ingredient, of which rye flour comprises not less than one third, may include not more than 3 per cent of other edible farinaceous substance. The bread contains, one hour or more after baking, not more than 38 per cent of moisture.

Boston brown bread is the product, commonly in the form of cylindrical loaves, obtained by steaming or baking a leavened mixture of rye flour or meal, corn meal, and a wheat flour, with molasses, salt, milk, or a milk product, with or without potable water and with or without raisins. Leavening is commonly effected through the use of baking powder, or of sodium bicarbonate and sour milk.

Baking Powder Defined

The following definition and standard for baking powder was officially adopted in 1918 as a guide for officials of the Department of Agriculture in enforcing the food and drugs act:

"Baking powder is the leavening agent produced by the mixing of an acid reacting material and sodium bicarbonate, with or without starch or flour. It yields not less than 12 per cent of available carbon dioxide.

"The acid reacting materials in baking powder are: (1) tartaric acid or its acid salts, (2) acid salts of phosphoric acid, (3) compounds of aluminium or, (4) any combination in substantial proportions of the foregoing."

The announcement of the amount of other salts of phosphoric acid which react in baking powder is reserved, pending further investigation. Baking powder materials should be as free from metallic impurities as it is feasible for a manufacturer to make them. The announcement of the limits for arsenic, lead, zinc, and flourids is reserved, pending further investigation.

Federation Presidents

The names of presidents of the Millers' National Federation, with their periods of office, are shown herewith.

B. A. Eckhart, Chicago, Ill., 1903-04; Charles Espenschied, St. Louis, Mo., 1904-05; John W. Burk, Springfield, Ohio, 1906-08; W. K. Castle, Louisville, Ky., 1908-09; Dwight M. Baldwin, Jr., Minneapolis, 1910-11; Isaac B. Sparks, Alton, Ill., 1911-12; Andrew J. Hunt, Arkansas City, Kansas, 1912-14; Mark N. Monsal, Toledo, Ohio, 1914-16; Samuel Plant, St. Louis, Mo., 1916-18; Fred J. Lingham, Lockport, N. Y., April-July, 1918; E. M. Kelly, Nashville, Tenn., 1918-20; A. L. Gustafson, Minneapolis, Minn., 1920-22; Charles L. Rose, Wellington, Kansas, 1922-24; Sydney Anderson, Jamestown, Miss., 1924-26. No president has been elected since the resignation of Sydney Anderson.

ASSOCIATIONS AND CLUBS OF MILLERS, FLOUR, FEED AND GRAIN DEALERS

MILLERS

American Association of Cereal Chemists

President, C. G. Harrel, Commander-Larabee Corporation, Minneapolis; vice president, R. K. Durham, Rodney Milling Co., Kansas City; secretary-treasurer, M. D. Mize, 523 Omaha Grain Exchange, Omaha, Neb; editor of Cereal Chemistry, Dr. C. H. Bailey, University Farm, St. Paul, Minn.

American Corn Millers' Federation

President, E. A. Talbelm, Crete (Neb.) Mills; vice presidents, C. A. Godfrey, Des Moines, Iowa, and J. T. Fagan, Troy, Ohio.

American Custom Millers' Association

Secretary, W. E. Damon, Louisville, Ky.

Association of Operative Millers

President, Frank A. Madge, Noblesville, Ind; vice president Floyd L. Talmage, Kansas City; treasurer, W. C. Dunn, Independence, Mo; secretary, Hugo P. Roos, 203 Postal Telegraph Building, Kansas City, Mo.

Blue Ridge Millers' Association

President, E. H. Libbey; secretary-treasurer, W. L. Spurrier, Mount Airy (Md.) Milling Co.

Canadian National Millers' Association

Honorary chairman, W. A. Black, Montreal; vice chairman, George A. Macdonald, Peterborough, Ont; permanent president, C. H. G. Short, Montreal; secretary, D. E. Murphy, Board of Trade Building, Montreal. Directors: W. A. Black, Montreal; R. R. Dobell, Montreal; W. W. Hutchison, Montreal; Charles Ritz, Montreal; N. P. Lambert, Toronto; George A. Macdonald, Peterborough, Ont; J. A. McDonald, Valleyfield, Que; J. J. Page, Toronto; R. J. Pinchin, Midland, Ont; Thomas Williamson, Montreal.

Central States Millers' Association

Executive committee: M. N. Mennel, Toledo, Ohio, chairman; J. W. Enright, Toledo, Ohio, chairman of the transportation committee; W. W. Suckow, Franklin, Ind., treasurer; David E. Stott, Detroit, Mich; Frank Hutchinson, Lawrenceburg, Ind.

Kansas City Millers' Club

Secretary, Robert E. Sterling, Kansas City; treasurer, George W. Hoyland, Kansas City.

Kentucky Millers' Club

Secretary, S. T. Chase, Lexington (Ky.) Roller Mills Co.

Michigan State Millers' Association

President, C. D. McKenzie, Quincy; vice president, Fred G. Emmons, Detroit; treasurer, W. B. Thoman, Lansing; secretary, Frank B. Drees, 1610 Inverness Avenue, Lansing.

Mill and Elevator Fieldmen's Association

President, H. A. Braunagel, Wichita, Kansas; treasurer, M. B. Parsons, Fargo, N. D; secretary, H. C. Lee, 230 East Ohio Street, Chicago.

The Millers' Club

President, Bernhard Gerlach, Red Wing; vice president, C. C. Bovey, Minneapolis; secretary-treasurer, R. T. Beatty, 118 South Sixth Street, Minneapolis.

Millers' Mutual Fire Insurance Association of Illinois

President, H. B. Sparks, St. Louis; first vice president, George S. Milnor, Chicago; second vice president, Julius Postel, Mascoutah; secretary-treasurer, G. A. McKinney, 320 Easton Street, Alton; assistant secretary, R. B. Howd, Alton; assistant treasurer, J. W. Buckingham, Alton.

Minnesota Millers' Club

President, Gust Mehlin, Minneapolis; vice president, A. D. Brophy, Fargo, N. D; treasurer, E. D. White, Minneapolis; secretary, J. H. Linner, North Branch.

National Soft Wheat Millers' Association

President, C. T. Johnson, Mount Vernon, Ind; vice presidents, Robert R. Clark, St. Joseph, Mo., and Fred Borries, Louisville, Ky; secretary-treasurer, W. H. Strowd, Mount Vernon, Ind.

Nebraska Millers' Association

President, D. H. Wilson, Crete; vice president, Charles A. Bridge, Norfolk; secretary-treasurer, J. N. Campbell, 824 First National Bank Building, Omaha.

New York State Millers' Association

President, W. V. Hamilton, Caledonia; vice president, C. H. Cochran, Buffalo; treasurer, M. L. Waldorff, Olean; secretary, Fred E. Pond, care Corn Exchange of Buffalo.

North Pacific Millers' Association

President, W. S. Allen, Fisher Flouring Mills Co., Seattle, Wash; secretary-treasurer and traffic manager, R. D. Lytle, Box 1504, Tacoma, Wash.

Northwest Spring Wheat Millers' Club

President, John S. Pillsbury, Minneapolis; vice president, H. L. Beecher, New Ulm, Minn; secretary, Milton P. Fuller, Everett, Aughenbaugh & Co., Minneapolis.

Ohio Millers' State Association

President, W. W. Wickersham, Blanchester; vice president, Wayne Armstrong, Laureiville; secretary-treasurer, R. S. Willcox, 141 West North Broadway, Columbus.

Oklahoma Millers' Association

President, W. G. Patten, Chickasha; vice president, E. R. Lehman, Geary; treasurer, C. F. Tillma, Oklahoma City; secretary, Frank Foltz, Room 710, Cotton and Grain Exchange Building, Oklahoma City.

Pennsylvania Millers' and Feed Dealers' Association

President, W. B. Barnitz, Carlisle; first vice president, W. K. Harlacher, Highspire; second vice president, A. R. Selby, Germantown; treasurer, E. J. Eshelman, Lancaster; secretary, George A. Stuart, room 131, South Office Building, Harrisburg.

Piedmont Millers' Association

President, C. B. Fretwell, Spartanburg, S. C; first vice president, M. F. Ring, Roanoke, Va; second vice president, J. C. Guire, Lenoir, N. C; secretary-treasurer, S. F. Poindexter, P. O. Box 179, Richmond, Va.

Rice Millers' Association

President, J. H. Trotter, Lake Charles, La; vice presidents, Fred W. Rickert, New Orleans, George Herder, Eagle Lake, Texas, and H. K. Smith, Stuttgart, Ark; secretary-treasurer, R. L. Weber, P. O. Box 1289, New Orleans, La.

Rye Millers' Association of America

President, Frank H. Blodgett, Janesville, Wis; vice president, H. R. McLaughlin, Minneapolis; secretary-treasurer, Frank J. Allen, Bay State Milling Co., Winona, Minn.

St. Louis Millers' Club

President, R. F. Imbs; vice president, W. E. Henry; secretary-treasurer, Frank E. Eichler, 305 Pierce Building.

Southeastern Millers' Association

President, W. B. Anderson, Jr., Hopkinsville, Ky; vice presidents, Fred Borries, Louisville, Ky., and Richard P. Johnson, Knoxville, Tenn; treasurer, Ruby Greene, Nashville, Tenn; secretary, J. W. Sample, Nashville, Tenn.

Southern Illinois Millers' Association

President, Edward Schuerman, Germantown; first vice president, Philip H. Postel, Mascoutah; second vice president, C. A. Carter, Baldwin; secretary-treasurer, J. L. Grigg, Sparta.

Southern Minnesota Mills

President, G. M. Palmer, Mankato; vice president, W. B. Webb, Wabasha; treasurer, H. L. Beecher, New Ulm; secretary, Martin F. Smith, 634 Security Building, Minneapolis.

Southwestern Millers' League

President, E. H. Hogueland, Kansas City; chairman of the board of directors, J. B. Smith, Salina, Kansas; vice chairman of the board, Thad L. Hoffman, Kansas City; treasurer, W. L. Duerr, Kansas City; secretary-traffic manager, L. M. Herndon, Kansas City.

Wisconsin Millers' Association

President, Ward Fallgatter, Waupaca; vice president, George W. Moody, Weyauwega; secretary-treasurer, S. C. Northrop, Watertown.

FLOUR

Associated Flour Jobbers of New York, Inc.

President, Leopold Gross; vice president, H. V. Kurtz; treasurer, Charles D. Giovanni; secretary, Emmanuel Rosenfeld; general manager, Daniel Richter; credit manager, Emanuel Schoenzeit.

Baltimore Flour Club

President, Stanley G. Erdman; vice president, Walter A. Frey; treasurer, C. Emmerich Mears; secretary, Charles Minnigerode, 330 North Charles Street.

Chicago Flour Club

President, C. A. Bunnell; vice president, John Regel; secretary-treasurer, S. O. Werner, 166 West Jackson Boulevard, Chicago.

Cincinnati Flour Club

President, R. L. Groff; vice president, P. L. O. Smith; secretary-treasurer, George A. Nieman, 819 Provident Bank Building.

Cleveland Flour Club

President, A. A. Lederer; vice president, O. W. Filkins; treasurer, L. C. Moody; secretary, H. E. Sokol, 1531 West Twenty-fifth Street.

Flour Institute of New York, Inc.

President, George R. Flach; vice president, S. R. Strisik; secretary-treasurer, Gus Fleischmann, American Flour Corporation, Produce Exchange, New York.

Milwaukee Flour Club

President, Philip Orth, Jr; vice president, Max E. Marquardt; secretary-treasurer, Leonard E. Meyer, 405 Broadway, Milwaukee.

Minneapolis Flour Club

President, Oscar Z. Carlson, Minneapolis; vice president, W. M. Steinke, Minneapolis; treasurer, E. W. Fierke, Minneapolis; secretary, A. L. Cernaghan, Minneapolis (Minn.) Milling Co.

Nashville Flour Club

President, John McGraw; vice president, John F. Krieg; secretary-treasurer, Allen Cornelius, W. R. Cornelius & Co., Nashville.

National Federated Flour Clubs

President, Edward Knighton, Produce Exchange, New York; vice president, Julius J. Albrecht, St. Louis; secretary-treasurer, Fred W. Colquhoun, 45 West Forty-fifth Street, New York.

New Orleans Flour Club

President, Peter Schmidt; vice president, P. L. Thomson; secretary-treasurer, A. J. Palermo, 209 Louisiana Building.

New York Flour Club, Inc.

President, Joseph V. Lane; vice president, James Haffenberg; treasurer, Clarence Smith; secretary, Wayne G. Martin, Jr., 23 Beaver Street, New York.

Flour Club of Philadelphia

President, S. Gartland Horan; vice president, J. L. Carroll; treasurer, L. E. Bowman; secretary, James J. Rodgers, The Bourse, Philadelphia.

Pittsburgh Flour Club

President, J. T. Lipford; treasurer, H. D. Gilpin; secretary, C. C. Latus, 60 Methodist Building, Pittsburgh.

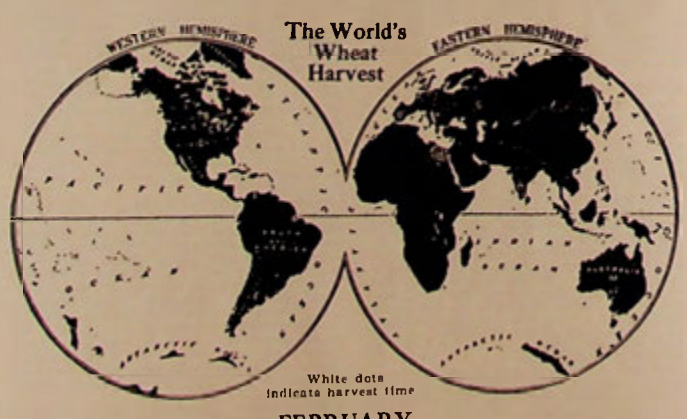
St. Louis Flour Club

President, Hugh Harris; vice president, C. B. Dreyer; secretary-treasurer, A. F. G. Raikes, 517 Merchants' Exchange.

FEED AND GRAIN

American Feed Manufacturers' Association

President, D. W. McMillen, Fort Wayne, Ind; first vice president, Edwin Drescher, St. Louis; second vice president, Van Roy Miller, Kansas City; third vice president, C. N. Barrett, Minneapolis; treasurer, W. R. Anderson, Milwaukee; traffic manager, R. M. Field, Chicago; secretary, L. F. Brown, 53 West Jackson Boulevard, Chicago.



Association of American Feed Control Officials

President, G. G. Frary, Vermilion, S. D; vice president, C. E. Grattan, Ottawa, Canada; secretary-treasurer, L. E. Depot, College Park, Md.

Canadian Feed Manufacturers' Association

President, A. E. Reesor, Markham, Ont; vice president, J. E. McRostie, Toronto; secretary-treasurer, G. S. Dodington, Western Canada Flour Mills Co., Ltd., Toronto.

Central Retail Feed Association

President, Walter Uebele, Burlington, Wis; vice president, Walter Harriel, Minneapolis, Minn; treasurer, W. N. Knauf, Chilton, Wis; secretary, David K. Stoonbergh, 210 East Michigan Street, Milwaukee, Wis.

Eastern Federation of Feed Merchants

President, F. M. McIntyre, Potsdam, N. Y; vice president, A. J. Thompson, Wycombe, Pa; treasurer, Frank T. Benjamin, box 752, Canastota, N. Y; secretary, Wilbur A. Stannard, 48 State Street, Albany, N. Y.

Grain and Feed Dealers' National Association

President, Hugh A. Butler, Omaha; first vice president, George E. Booth, Chicago; second vice president, W. W. Manning, Fort Worth, Texas; secretary-treasurer, Charles Quinn, 321 Gardener Building, Toledo, Ohio.

Indiana Grain Dealers' Association

President, O. L. Barr, Bicknell; vice president, D. P. Simpson, Romney; treasurer, B. A. Boyd, Indianapolis; secretary, Fred K. Sale, 600 Board of Trade, Indianapolis.

Kansas Grain Dealers' Association

President, Roy W. Cox, Moran; vice president, A. R. Dean, Blue Rapids; secretary-treasurer, E. J. Smiley, 315 Mulvane Building, Topeka.

Michigan Grain, Hay & Feed Dealers' Association

President, Fred Zinn, Battle Creek; first vice president, Bard Pomeroy, Middleton; second vice president, R. E. Ward, Jackson; secretary-treasurer, T. J. Hubbard, 318 Bingham Street, Lansing.

Midwest Mixed Feed Manufacturers' Association

President, O. M. Straube, Kansas City; vice president, E. A. Talbelm, Crete, Neb; treasurer, George W. Selders, Kansas City; secretary, Frank R. Johnson, Arendy Farms Milling Co., Kansas City.

New England Retail Grain Dealers' Association

President, Harry L. Ryther, Belchertown, Mass; vice president, W. T. Abell, Burlington, Vt; secretary-treasurer, Lynne P. Townsend, 212 Myrick Building, Springfield, Mass.

Northeastern Feed Manufacturers' Association

President, L. S. Riford, Cayuga, N. Y; first vice president, H. L. Hammond, Boston; second vice president, G. I. Godshalk, Bangor, Pa; secretary-treasurer, E. P. Elmore, Elmore Milling Co., Oneonta, N. Y.

Northwest Mixed Feed Manufacturers' Association

President, C. N. Barrett, Minneapolis; vice president, Charles H. Karschner, Minneapolis; secretary-treasurer, G. W. Smith, Albert Dickinson Co., Minneapolis.

Oregon Feed Dealers' Association

President, W. C. Theda, Hillsboro; vice president, Vernon Burlingham, Forest Grove; secretary-treasurer, Hurley White, Salem; manager, Floyd Oles, Arctic Building, Seattle, Wash.

Ohio Grain, Mill and Feed Dealers' Association

President, O. Perry Hall, Greenville; first vice president, Luther B. Miller, Springfield; second vice president, Frank R. Bowes, Toledo; secretary-treasurer, W. W. Cummings, J. F. Zahm & Co., Toledo.

Southern Mixed Feed Manufacturers' Association

President, E. Wilkinson, Birmingham, Ala; vice president, L. R. Hawley, Memphis, Tenn; treasurer, W. A. Hall, Memphis, Tenn; secretary, E. P. MacNicol, Memphis, Tenn., 706 Exchange Building, Memphis, Tenn.

St. Louis Grain Club

President, Ward A. Brown; vice president, Fred H. Barkley; secretary-treasurer, W. H. Christian, Boatmen's Bank Building, St. Louis.

Feed Dealers' Association of Washington

President, R. M. Clagett, Spokane; vice president, George R. Thompson; secretary-treasurer, R. J. Sprecher, Chehalis; manager, Floyd Oles, 702 Arctic Building, Seattle.

February *1931*

AMERICAN MILLERS SHIPPED CARGO OF FLOUR TO WAR STRICKEN BELGIANS

NOTABLE TRADE EVENTS

WILLIAM C. EDGAR became connected with The Northwestern Miller. 1882.

Millers' National Federation organized. 1902.

Millers' Belgian Relief Movement; steamship South Point, carrying a cargo of flour contributed by American millers to relief of Belgian civil population, sailed from Philadelphia. 1915.

Robert M. La Follette, Wisconsin, introduced a resolution into the Senate, providing that the Federal Trade Commission be directed to investigate the production, distribution, transportation and sale of flour and bread, and report its findings. 1925.

First recorded sale of flour by transatlantic radiophone made by the Mennel Milling Co., Toledo, Ohio, to Farquhar Bros., Glasgow, Scotland. Cost of call, $78. 1927.

The Northwestern Miller instituted its campaign to have the carrying charge enforced by the issue of a pamphlet entitled "The Expense of Delay," of which over 30,000 were distributed. 1927.

President Coolidge vetoed the McNary-Haugen farm relief bill after it had passed the House of Representatives and the Senate. 1927.

Provincial governments of Saskatchewan, Alberta and Manitoba guaranteed to commercial banks the loans on grain made to the Canadian Wheat Pool. This action was taken because of rapidly falling prices. 1930.

Grain Stabilization Corporation formed under the provisions of the Agricultural Marketing Act, and buying of wheat futures begun in an effort to prevent price declines. 1930.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Day of the Week		S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
Minneapolis Mean Time	Sun Rises H. M.	7 13	7 12	7 11	7 10	7 9	7 8	7 7	7 5	7 4	7 3	7 1	7 0	6 58	6 57	6 56	6 55	6 53	6 52	6 50	6 49	6 47	6 46	6 44	6 42	6 41	6 40	6 38	6 36
	Sun Sets H. M.	5 15	5 17	5 18	5 19	5 20	5 22	5 23	5 24	5 26	5 27	5 28	5 30	5 31	5 32	5 33	5 35	5 36	5 37	5 38	5 40	5 41	5 42	5 43	5 45	5 46	5 47	5 48	[illegible]

MINNEAPOLIS—CHAMBER OF COMMERCE RULES

Membership Unlimited.—The number of memberships in the Minneapolis Chamber of Commerce is unlimited. Initiation or membership fee, $10,000. However, in the open market they sell much below this price.

Arbitration Fees.—Fees for arbitration before the Minneapolis Chamber of Commerce are: Each case involving less than $500, $10; involving $500 and upwards and less than $1,000, $15; involving $1,000 and upwards and less than $1,500, $20; involving $1,500 or upwards and less than $2,500, $25; involving $2,500 and upwards, $50. The money goes to the members of the arbitration board. In addition thereto is a charge of $3 to go to the secretary for fees in each case and $2 for stenographer's service.

Millfeed.—Terms of Shipment.—Immediate shipment means within three calendar days from time directions are furnished by seller; quick shipment, within seven calendar days from day directions are furnished; prompt shipment, within 14 calendar days from day directions are furnished.

Contract Grades.—On all sales of grain and flaxseed for future delivery, the contract grade shall be No. 1 northern on the spring wheat future, No. 2 hard winter on the winter wheat future, No. 2 mixed corn, 2 white oats, No. 2 rye, and No. 1 flaxseed, as established by the Joint Board of Grain Appeals, or other properly constituted authority of the state of Minnesota.

The grades of spring wheat deliverable on the spring wheat future shall be as follows: on all sales of spring wheat for future delivery, the contract grade shall be No. 1 northern spring wheat, provided that on all sales of spring wheat for future delivery the following grades may be delivered: No. 1 hard spring at 2c above the price of No. 1 northern spring; No. 1 dark northern spring at 1c above the price of No. 1 northern spring; No. 2 dark northern spring at 2c under, and No. 2 northern spring at 3c under. All of the above grades to be as established by the Joint Board of Grain Appeals or other properly constituted authority of the state of Minnesota.

On all sales of winter wheat for future delivery, the following grades may be applied: No. 1 dark hard winter, No. 1 hard winter, No. 1 yellow hard winter and No. 2 dark hard winter wheat.

On all sales of winter wheat for future delivery, the following grades may be applied at a discount of 5c per bu below the price of No. 2 hard winter wheat: No. 2 yellow hard winter, No. 3 dark hard winter and No. 3 hard winter wheat.

Unless otherwise specified, all offers to buy or sell wheat for future delivery shall be understood to refer to the spring wheat future.

Provided, however, that on all sales of corn for future delivery, the following grades may be delivered: No. 1 or 2 yellow corn at ½c bu premium; No. 1 or 2 white corn at ½c bu premium; No. 1 mixed corn at the contract price; No. 3 yellow corn, containing 16 per cent or less moisture, at 1c discount, No. 3 mixed corn, containing 16 per cent or less moisture, at 1½c discount.

Provided further, that on all sales of corn for May delivery, deliveries may be made at the option of the seller, either by delivery of registered warehouse receipts, issued by warehouses declared "regular" by the Chamber of Commerce, or by the delivery of an elevator load-out notice, representing corn in cars, subject to the following conditions: (1) cars must be within the Minneapolis switching district and shall contain not less than 60,000 lbs each; (2) the elevator load-out notice must be in such form as to transfer title to the grain; (3) load-out notices must be accompanied by federal appeal inspection certificates, showing the corn to be of proper grade and to have been inspected within 24 hours of the date of delivery; (4) the corn must have been weighed at Minneapolis under the supervision of the Minnesota state weighmaster and a certificate issued; (5) in the fulfillment of a contract for 1,000 bus, the buyer shall have the right to have loaded a minimum carload (60,000 lbs), and payment for the difference shall be based upon the price designated in the delivery notice.

On all sales of oats for future delivery, the following grades may be applied: No. 1 white oats at ½c premium above the contract price; No. 2 white oats at the contract price; No. 3 white oats at a discount of 1½c bu under the price of No. 2 white oats.

On all sales of barley for future delivery, the contract grade shall be special No. 2 barley as established by the Joint Board of Grain Appeals or other properly constituted authority of the state of Minnesota; provided that upon all sales of barley for future delivery No. 1 barley may be applied at 2c bu above the contract price; No. 2 barley may be applied at 5c bu under the contract price; No. 3 barley may be applied at 8c bu under the contract price.

On all sales of rye for future delivery, No. 1 rye may be delivered, with No. 3 rye at a discount of 3c per bu.

On all sales of flaxseed for future delivery, the following grades may be delivered: any and all No. 1 flaxseed and No. 1 northwestern flaxseed, as established by the Joint Board of Grain Appeals or other properly constituted authority of the state of Minnesota, at the contract price; and also any flaxseed, wherever grown, the commercial value of which is equal to or better than No. 1 flaxseed; and any "merchantable" flaxseed of inferior quality, wherever grown, at a difference in price equal to the commercial difference in value as compared with No. 1 flaxseed.

Sales to Arrive.—Where grain is sold to arrive, seller has 20 days from date of sale in which to deliver.

Carloads.—Following amounts constitute a carload: wheat, corn, rye, flaxseed, 1,300 bus; oats, 2,300; barley, 1,600; screenings, all kinds, 40,000 lbs.

High or Low Price.—The board of directors has resolved that, should any member offer to buy at a price higher than the current selling price, or to sell below the current bid price for future delivery on the trading floor of the Chamber of Commerce, he would be acting contrary to the rules.

Name of Principal.—It is considered a violation of rules of the Chamber of Commerce for any member to make a transaction at brokerage rates, unless the name of the principal is given to the party with whom the transaction is made.

Track Buyers.—It is considered a violation of the rules of the Chamber of Commerce for track buyers to purchase, or offer to purchase, any grain in the interior for shipment to Minneapolis, without making due allowance for all charges incurred in transportation, including commission, switching, inspection, weighing, and interest on advances of money made.

Rates of Interest.—It is considered a violation for any member to make advances on bills of lading without charging the regular current rates of interest.

Jurisdiction Over Members.—In case of any disagreement between members as to transactions, the Chamber of Commerce has jurisdiction only when such transactions have been carried on and completed upon the floor of the Exchange during the regular session.

Season Bran.—"Season bran" means that the seller has the option of delivering it at any time up to Jan. 1 following. In other words, it is sold for season shipment, and the season ends Jan. 1.

Liverpool—Docks and Storage

The Liverpool docks are managed and controlled by the Mersey Docks & Harbor Board, which is a public trust and not a company carried on for private profit. The rates levied are required to pay the cost of operation and the interest on the bonded debt. A portion of the profits goes into a sinking or reserve fund. The approximate tonnage inward and outward is about 38,000,000 tons.

The total grain storage capacity in the Mersey Docks & Harbor Board warehouses is 62,000 tons; that of the Liverpool Grain Storage Co.'s warehouses is 140,000; that of Duke's Grain Warehouse 10,000,—making a total of 212,000 tons, or about 6,784,000 bus.

All storage capacity in the public stores in Liverpool and Birkenhead is available for wheat, and is also used for other cereals. There are some private stores, but their cost is prohibitive, as none of them are available for craft going alongside.

Minneapolis—Commission Rates

Following are the rates fixed by the Minneapolis Chamber of Commerce for selling on arrival or to arrive:

Wheat and rye, 1 per cent of gross proceeds, with maximum charge of 2½c per bu and minimum charge 1½c per bu.

Corn and barley, 1 per cent of gross proceeds, with maximum charge of 2c per bu and minimum charge of 1c per bu.

Oats, 1 per cent of gross proceeds, with maximum charge of 1c per bu and minimum charge of ¾c per bu.

Flaxseed, 1 per cent of gross proceeds, with maximum charge of 3½c per bu and minimum charge of 2c per bu.

Speltz and screenings, 1 per cent of gross proceeds.

Millstuffs and ground feeds, 50c per ton.

Hay, $1 per ton, with minimum charge per car of $10.

Buckwheat, 2 per cent. Percentage on sales of all seeds and buckwheat will be computed on gross proceeds.

Minimum charge per car: Minimum charge per car on any grain, seeds or screenings, $12.

Sacked lots less than carloads: Small sacked lots of grain and screenings, less than carloads, 1½ per cent, except buckwheat and all grass seeds 2 per cent, minimum charge, $2.50 per lot.

Canada—Weights and Measures

The legal weights and measures of Canada are the imperial yard, imperial pound avoirdupois, imperial gallon (of 277.27384 cubic inches), and the imperial bushel. The imperial gallon is equal to 4.54174 liters, while the wine gallon, used in the United States, is equal to 3.785 liters.

By Act 42d Vic. (1879), Chap. 16 (amended by Chap. 35, Acts of 1895), it is provided: That in contracts for sale and delivery of any of the undermentioned articles, the bushel should be determined by weighing unless a bushel measure be specially agreed upon, the weight equivalent to a bushel being as follows: wheat, 60 lbs; Indian corn, 56 lbs; rye, 56 lbs; peas, 60 lbs; barley, 48 lbs; buckwheat, 48 lbs; oats, 34 lbs; beans, 60 lbs; flaxseed, 56 lbs.

By the same act the British hundredweight of 112 lbs and the ton of 2,240 lbs were abolished, and the hundredweight was declared to be 100 lbs, and the ton 2,000 lbs avoirdupois, thus harmonizing the weights of Canada and the United States.

Minneapolis Chamber of Commerce

President, Charles T. Stevenson; first vice president, [illegible]; second vice president, [illegible]; secretary-treasurer, John G. McHugh; assistant secretary and assistant treasurer, E. H. Hughes; board of directors, George S. Wilson, A. F. Owen, F. J. Seidl, J. C. Wyman, E. E. Mitchell, George K. Labatt, W. C. Helm, F. Carleton Smith, Walter H. Mills, J. A. Mull.

LEADING ASSOCIATIONS AND CLUBS OF THE BAKING INDUSTRY

Alabama Bakers Association

President, Ed Strothers, Decatur; vice president, M. P. Curran, Florence; secretary-treasurer, Edwin Hardin, Tupelo, Miss.

Allied Trades of the Baking Industry

President, Murray K. Guthrie, Minneapolis; vice president, Joseph C. Emley, New York; secretary-treasurer, C. H. Van Cleef, 419 Plum Street, Cincinnati.

American Bakers Association

President, Henry Stude, Chicago; chairman of the board of governors, Frederic H. Frazier, New York; first vice president, Alton B. Hastings, Jr., Boston; second vice president, Emory Rice, Baltimore; treasurer, M. Lee Marshall, New York; secretary, Thomas F. Smith, 1135 Fullerton Avenue, Chicago.

American Bakers' Council

President, W. C. Scott; vice president, E. Y. Crossmore; secretary-treasurer, R. T. Stokes, 90 West Broadway, New York.

American Society of Bakery Engineers

President, L. E. Caster, Rockford, Ill; first vice president, Earl Cox, Jamaica, N. Y; second vice president, John C. Summers, New York; secretary-treasurer, Victor E. Marx, 1541 Birchwood Avenue, Chicago.

Associated Bakers of America, Retail and Wholesale

President, Alfred Schmidt, Milwaukee; first vice president, Joseph Machatschek, St. Louis; second vice president, William A. Zickgraff, Peoria, Ill; third vice president, Kuno Plehn, Louisville; treasurer, George Geissler, Joliet, Ill; secretary, John M. Hartley, 360 North Michigan Avenue, Chicago, Ill; financial secretary, B. E. Nehls, Chicago.

Associated Bakers of Illinois

President, William A. Zickgraff, Peoria; vice president, George W. Johnson, Danville; treasurer, George Geissler, Joliet; secretary, George Chussler, Jr., 360 North Michigan Avenue, Chicago; field secretary, Roger Hartley, 360 North Michigan Avenue, Chicago.

Associated Bakers of Minnesota

President, Frank Bueller, St. Paul; vice president, T. J. Mahlke, Winona; treasurer, Al Tweeling, Minneapolis; financial secretary, E. H. Braunig, Jr., St. Paul; secretary, J. A. Janovec, 3724 Third Avenue South, Minneapolis.

Atlanta Bakers' Club

President, Thomas C. Hull; vice president, A. B. Lee; secretary-treasurer, J. R. Henderson.

Bakers' Association of Oregon, Inc.

President and general manager, A. V. Hemming; vice president, Thomas McGuckin; secretary, Mrs. A. V. Hemming, 304 Henry Building, Portland.

Bakers Club, Inc., New York

President, Ellis Baum; vice presidents, Harvey J. Owens and C. P. Oliver; treasurer, Ernest B. Kelrstead; secretary, Frank A. Lyon, 17 East Forty-first Street, New York.

Bakers Club of Philadelphia

President, David C. Wiley; vice president, Joseph Lubiak; treasurer, F. M. Ginzler; secretary, Francis Hawkins, Standard Brands, Inc.

Bakery Equipment Manufacturers' Association

President, Harry A. Lockwood, Lockwood Mfg. Co., Cincinnati; vice president, J. G. Redner, Battle Creek Bread Wrapping Machine Co., Battle Creek, Mich; secretary, F. X. Lauterbur, Peerless Bread Machine Co., Sidney, Ohio; treasurer, Joseph C. Emley, Park Row Building, New York; executive secretary, Ferry & Dawson, Chandler Building, Washington, D. C.

Bakery Sales Promotion Association

President, Charles R. McGill, Terre Haute; first vice president, E. R. Braun, Jr., Pittsburgh; second vice president, Russell Varney, New York; secretary-treasurer, R. E. Sullivan, 1135 Fullerton Avenue, Chicago.

Biscuit and Cracker Manufacturers' Association of America

President, W. C. Scott, Baltimore, Md; vice president, John Hekman, Grand Rapids, Mich; treasurer, E. K. Quigg, Richmond, Ind; secretary, R. T. Stokes, 90 West Broadway, New York.

Bread and Cake Bakers' Association of Canada

Past president, W. A. Dixon, Galt, Ont; president, G. C. Morrison, Ottawa; first vice president, Robert McMullen, Toronto; second vice president, A. V. Loftus, Toronto; third vice president, F. E. Parnell, London, Ont; fourth vice president, L. D. Jackson, Hamilton, Ont; treasurer, J. W. Brandon, Toronto; secretary, H. E. Trent, room 21, 96 Bloor Street West, Toronto.

Buffalo Master Bakers' Association

President, A. Muehlbauer; vice president, William Stellar; treasurer, George Heidmann; secretary, A. Stegmeier, 1605 Genesee Street.

Cake and Retail Section, American Bakers Association

Chairman, Mrs. M. M. Brooke, Purity Bakeries Corporation, Chicago; secretary, Frank J. Nemetz, 1135 Fullerton Avenue, Chicago.

California Bakers' Association

President, Donald M. McRae, San Francisco; secretary, W. M. Foley, room 612, 465 California Street, San Francisco.

Canadian Society of Bakery Engineers

President, Ben Edlin, Toronto; first vice president, W. Brown, Toronto; second vice president, Adam Bradbury, Toronto; secretary-treasurer, Harold C. Maedel, Canada Packers, Ltd., Toronto.

Central Pennsylvania Bakers' Association

President, William Hautz, Sunbury; vice president, John Saylor, Tamaqua; secretary-treasurer, M. E. Manbeck, Manbeck Baking Co., Harrisburg.

Chicago Master Bakers' Association

President, Peter Redler; vice president, William L. Stahl; treasurer, Eugene P. Brengle; financial secretary, B. E. Nehls; secretary, George Chussler, Jr., room 1122, 360 North Michigan Avenue, Chicago.

Chicago South Side Master Bakers' Association

President, Charles Goeb; vice president, Robert Goetting; treasurer, George Popp; financial secretary, Peter Esperschmidt; corresponding secretary, J. Koenig, 1939 West Sixty-ninth Street.

Indiana Bakers' Association

President, Albert Dietzen, Anderson; vice president, Charles W. Winfield, Fort Wayne; treasurer, V. C. Vanderbilt, Indianapolis; secretary-manager, C. P. Ehlers, 2238 East Michigan, Indianapolis.

Inland Empire Bakers' Association

President, Steve Spengler, Lewiston, Idaho; secretary-treasurer, George E. Van Herseth, 14 East Mission Street, Spokane, Wash.

Iowa Bakers' Association

President, A. L. Larrimer, Winterset; vice president, C. R. Shelton, Chariton; treasurer, George F. Brems, Cedar Rapids; educational secretary, R. H. Holbrook, Ames; secretary, C. O. Schweickhardt, 1623 South Main Street, Burlington.

Kansas Bakers' Association

President, J. E. Murray, Wichita; vice president northeast district, Carl Drake, Lawrence; vice president northwest district, W. L. Ehly, Osborne; vice president central district, G. C. Gillan, Concordia; vice president southwest district, R. V. Miller, Dodge City; vice president southeast district, Charles E. Graham, Pittsburg; secretary-treasurer, J. S. Chase, Jr., P. O. Box 443, Topeka.

Kentucky Master Bakers' Association

President, Louis Kirchoff, Paducah; vice president, Charles Brauch, Newport; secretary, Charles Meyers, 1233 Parkway, Covington; treasurer, Philip Schambach, Covington.

Milwaukee Bakers' Association

President, Alfred Schmidt; vice president, Kurt Kaiser; treasurer, Leo Rewald; financial secretary, A. J. Schneeweis; secretary, Bernhard Schmidt, 3374 North Thirty-eighth Street.

Missouri Master Bakers' Association

President, C. O. Galloway, Kansas City; vice president, John Sommerer, Jefferson City; treasurer, Frank Staedtler, St. Joseph; secretary, Frank G. Jungewaelter, 2127 Jefferson Avenue, St. Louis.

Montana Association of the Baking Industry

President, J. E. O'Connell, Helena; vice president, Dave Nichols, Billings; treasurer, William Schrustrom, Livingston; secretary, R. W. Osenbrug, 107 Olympia Street, Butte.

National Association of Bakers' Supply Houses

President, T. F. Naughtin, Omaha; vice president, S. W. Noggle, Kansas City; treasurer, H. W. Allen, Chicago; secretary, D. W. Boyd, Henry & Henry, Inc., 304 Michigan Avenue, Buffalo.

National Association of Wholesale Pie Bakers

President, W. E. Pittsford, Indianapolis, Ind; secretary-treasurer, J. P. Frisbie, 363 Kossuth Street, Bridgeport, Conn.

National Macaroni Manufacturers' Association

President, Frank L. Zerega, Brooklyn; vice president, G. G. Hoskins, Libertyville, Ill; advisory officer, Frank J. Tharinger, Milwaukee; Washington representative, B. R. Jacobs; secretary-treasurer, M. J. Donna, P. O. Drawer No. 1, Braidwood, Ill.

Nebraska Master Bakers' Association

President, Oscar W. Kuenne, Omaha; vice presidents, M. Forbes, Omaha, Joseph Carr, Lincoln, Harold Gillan, York, Lacinde Stevens, North Platte, Oscar Schulte, Wahoo, James Lovell, Hastings; treasurer, C. W. Ortman, Omaha; secretary, E. R. Newman, 1317 Leavenworth Street, Omaha.

New England Bakers' Association

President, Frank J. Mack, Bangor, Maine; general vice president, Otto M. Dreikorn, Holyoke, Mass; wholesale vice president, Harold G. Stevens, Bridgeport, Conn; retail vice president, K. R. Hermadorf, Manchester, N. H; treasurer, B. C. Lyndell, Somerville, Mass; executive secretary, H. D. Likins, Statler Building, Boston, Mass.

New Jersey Bakers' Board of Trade, Inc.

President, Adolph Hausold, Hoboken; vice president, Theodore Welch, Paterson; William Cordes, Jersey City; secretary, Adolph Lang, 104 Lillie Street, Newark.

New Mexico Bakers' Association

President, Lehn G. Engelhart, Albuquerque; vice president, Glenn E. Purdy, Santa Fe; treasurer, A. T. Hogan, Albuquerque; secretary, Fremont Kutnewsky, Box 194, Albuquerque.

New Orleans Master Bakers' Association

President, I. Ancona; vice president, Joseph Beals; treasurer, H. C. Hoehn; secretary, P. H. Daniels.

New York Bakers' Association, Inc.

President, Earl A. Cox; vice presidents, Ralph Kimmey, R. F. Meyer, R. H. Barnard and Charles R. Chesley; treasurer, E. B. Kelrstead; secretary, John L. Wellington, 1120 Mercantile Building, Rochester, N. Y.

New York State Association of Manufacturing Retail Bakers

President, William Horcheler; first vice president, Paul Seibold; second vice president, Carl Kehlhof; third vice president, Sigmund Eller; treasurer, Martin Keidel; secretary, Otto Gilchor, 196 Tulip Ave., Floral Park, L. I; assistant secretary, G. E. Johnston, Produce Exchange, New York.

North Carolina Bakers' Association

President, A. J. Salley, Statesville; vice president, O. C. Jones, Greensboro; treasurer, W. B. Neal, Chapel Hill; secretary, E. B. Graeber, 1013 Commercial Bank Building, Charlotte.

North Dakota Bakers' Association

President, R. Brubaker, Minot; vice president, W. C. Thomte, Lisbon; secretary-treasurer, Harry Howland, Fargo (N. D.) Bakery.

Northwestern Ohio Master Bakers' Association

President, E. M. Balduf, Toledo; vice president, George Gurley; treasurer, Clarence Wheeler, Toledo; secretary, W. H. Mountain, 367 Dorr Street, Toledo.

Ohio Bakers' Association

President, Frank H. Relfes, Springfield; Wilbur Bauer, Cincinnati; treasurer, Clarence Wheeler, Toledo; secretary, Frank E. Noyes, 602 Commerce Building, Columbus.

Oklahoma Bakers' Association

President, A. R. Cox, Okemah; vice presidents, C. V. Leonard, Chickasha, R. R. Bramo, Holdenville, B. Reddings, Woodward, Dave Crocket, Burbank; secretary-treasurer, John Wallen, 401 East Fifth Street, Oklahoma City.

Oregon Bakers Club, Inc.

President, E. Franz, Portland; first vice president, A. E. Fendall, Portland; second vice president, Basil Williams, Eugene; treasurer, T. E. Garbade, Portland; secretary, W. O. Wheeler, Wheeler-Robinson Co., Portland.

Pennsylvania Bakers' Association

President, S. Reed Morningstar, Philipsburg; vice president, Charles Goodman, Lancaster; treasurer, George W. Fisher, Huntingdon; secretary, C. C. Latus, 60 Methodist Building, Pittsburgh.

Potomac States Bakers' Association

President, Emory C. Rice, Baltimore, Md; vice president, Carl Hauswald, Baltimore; treasurer, J. W. Stohlman, Washington, D. C; secretary, Lee L. Robinson, 232 Woodward Building, Washington, D. C.

Retail Master Bakers' Association of Western Pennsylvania

President, Martin G. Beyer; vice president, Joseph Schneider; treasurer, George Burkarth; financial secretary, Frederick G Reinhardt; corresponding secretary, George Lutz, 609 Larimer Avenue, E E., Pittsburgh, Pa.

Rhode Island Bakers' Association

President, Henry Gorman; vice president, Joseph Arnold; secretary-treasurer, Bertrand E. Blais, New England Bakery, Pawtucket.

Rocky Mountain Bakers' Association

President, J. H. Winchell, Denver; first vice president, O. J. Whitlock, Casper, Wyo; second vice president, S. H. Swanson, Denver; secretary-treasurer, E. Roger Jones, Box 871, Denver.

South Dakota Bakers' Unit

Chairman, H. A. Jacobson, Vermillion; vice chairman, William Owsley, Aberdeen; secretary-treasurer, Mary A. Miller, Sioux Falls.

Southern Bakers' Association

President, William J. Barr, Chattanooga, Tenn; vice president, G. A. Mattingly, Hattiesburg, Miss; secretary, Thomas C. Hull, Baker and Ivy streets Northeast, Atlanta, Ga; treasurer, J. B. Everidge, Columbus, Ga.

Southern Illinois Bakers' Association

President, Max Becker, East St. Louis; vice president, J. P. Root, Centralia; secretary, Roger Hartley, 360 N. Michigan Ave., Chicago; treasurer, John MacKellar, Carterville.

Texas Bakers' Association

President, Robert A. Daniel, Beaumont; vice president, Walter Schneider, San Antonio; treasurer, J. Hugo Young, Houston; secretary, Herbert H. Fischer, 1[illegible] Austin Street, Houston.

United Master Bakers of New York

President, Frank Habersberger, Vice presidents, Willy Huth and Paul Wo[illegible], treasurer, Herman Graf; secretary, Otto Gilchor, 196 Tulip Avenue, Floral Park, L. I.

Vermont Bakers' Association

President, John Scott, St. Johnsbury; vice president, J. Clark Goddard, Cl[illegible]; treasurer, Frank Denison, St. Albans; secretary, Ralph Hamblett, Newport.

Washington State Bakers' Association

President, Wallace A. Mcpherson, Tacoma; vice president, J. Hansen, Seattle; secretary-treasurer, Charles [illegible], American Cake Co., Seattle.

March **1867** *1931*

A "CORNER" BY A MICHIGAN MILLER RAISED FLOUR PRICES TO $20 BBL IN NEW YORK

NOTABLE TRADE EVENTS

CHICAGO Board of Trade organized 1848.

L. C. Kellogg, miller of Battle Creek, Mich., attempted to corner the flour market in 1866. He accumulated 44,000 bbls of flour at Detroit and Chicago. By the following spring prices had reached $20 bbl at New York. Rail rates were high, and Kellogg waited for the opening of navigation, which came so late that others were able to get some flour into New York first. Kellogg lost $320,000. 1867.

Amasa K. Ostrander, founder of The Northwestern Miller, died. 1877.

Steamship Missouri, carrying millers' flour for relief of famine sufferers in Russia, sailed from New York. 1892.

Invention of Alsop bleaching process announced. 1904.

Millers' Belgian Relief Movement; relief cargo carried to Rotterdam, taken into Belgium by barges and there distributed through the agency of the Commission for Relief in Belgium. 1915.

Food Administration ordered millers to grind 100 per cent flour. 1918.

The North Carolina special tax law, applicable to chain stores, was declared unconstitutional. 1928.

Grain Stabilization Corporation abandons "pegged price" buying, continuing to purchase, but only at current market figures. 1930.

George S. Milnor, of the Sparks Milling Co., Alton, Ill., appointed vice president and general manager of the Grain Stabilization Corporation. Within a few weeks, Mr. Milnor also became general manager of the Farmers' National Grain Corporation, succeeding W. G. Kellogg, who resigned. 1930.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week		S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T
Minneapolis	Sun Rises H.M.	6 35	6 33	6 32	6 30	6 28	6 27	6 25	6 23	6 21	6 20	6 18	6 16	6 15	6 13	6 11	6 9	6 8	6 6	6 4	6 3	6 1	5 59	5 57	5 56	5 54	5 52	5 50	5 49	5 47	5 45	5 43
Mean Time	Sun Sets H.M.	5 51	5 52	5 53	5 54	5 56	5 57	5 58	5 59	6 0	6 1	6 3	6 4	6 5	6 6	6 7	6 8	6 10	6 11	6 12	6 13	6 14	6 15	6 16	6 17	6 18	6 20	6 21	6 22	6 23	6 24	6 26

Western Pennsylvania Bakers' Association

President, H. B. McNeal; vice president, E. R. Braun, Jr; treasurer, Louis P. Schmitt; secretary, C. C. Latus, 60 Methodist Building, Pittsburgh.

Wisconsin Association of Master Bakers

President, Joseph T. Fischer, Milwaukee; vice president, T. F. Schlafke, Wabeno; treasurer, W. A. Rose, Burlington; secretary, Joseph W. Pinzer, 1126 Thirty-ninth Street, Milwaukee.

Farmers Grain Dealers' Association of North Dakota

President, C. H. Conaway, Starkweather; vice president, L. S. Burgum, Arthur; secretary-treasurer, P. A. Lee, 517-18 Northwestern Building, Grand Forks.

Pacific Northwest Grain Dealers' Association

President, F. L. Jones, Walla Walla, Wash; vice presidents, A. M. Chrystall, Portland, and H. L. McIntyre, Seattle; secretary, Louis Pifer, Box 385, Walla Walla, Wash.

F.o.b. Cars or Steamer

The term f.o.b., particularly in shipping to seaboard ports, should be used with care. Cases have developed where there was a big difference in the cost, depending on whether the shipment was simply to arrive in a port, at New York, or was to be delivered on board steamer. Therefore, in transactions for delivery at ocean ports, this term, when used in telegrams or letters, should explain whether it means f.o.b. cars, New York, or f.o.b. steamer, or f.o.b. dock. Serious controversies have arisen over this point.

AMERICAN BAKERS ASSOCIATION

The National Association of Master Bakers was organized in Boston, Oct. 20, 1897. The first president of the organization was Charles Schneider, Washington, D. C. H. R. Clissold, editor of the Bakers' Helper, Chicago, was the first secretary. Mr. Clissold continued as secretary of the association until Feb. 11, 1908, at which time B. F. Whitcar, of Philadelphia, was elected his successor. Conventions have been held each year.

In 1914 the association hired a paid secretary in the person of Joseph M. Bell, of Chicago. Mr. Bell continued as secretary until 1919, when he resigned and was succeeded by David P. Chindblom. On Dec. 1, 1920, Mr. Chindblom was succeeded by J. W. McClinton. In 1921 Dr. H. E. Barnard, director of the American Institute of Baking, was appointed secretary and general manager of the association.

In 1918 the name was changed to the American Association of the Baking Industry. This name, however, was found to be unwieldy, and at the 1921 convention, held in Chicago, the name was changed to the American Bakers Association.

At the 1921 convention, the association, with its change of name, adopted a new constitution and by-laws, with a plan for expanding, elevating and safeguarding the industry. This plan comprehends the education of the American public as to the importance of commercially baked bread, the adoption of a uniform label for the use of members, a high standard sanitary code that members must live up to in order to be able to use the label, and the raising of sufficient funds to carry on the work of the association and the American Institute of Baking.

At the convention held at Atlantic City in the fall of 1926, a federated plan of organization was proposed, and was adopted by the board of governors at its meeting held in Chicago, Nov. 17, 1926. This provides for federating the membership of all state and group state associations, with the aim of granting to every member in such association the rights, privileges and benefits of local, state and national membership under one set of dues, and representation in electing the board of governors of the national body. The association's policies to be voted on by a house of delegates, comprising representatives from state or group state associations, based on one delegate to each 50 ovens paying dues to the American Bakers Association. At this meeting Henry Stude, of Houston, Texas, was elected president, and he was re-elected at the 1927 annual meeting of the governors, when a new office was created, with the election of Frederic H. Frazier, General Baking Corporation, New York, as chairman of the board. Mr. Stude has served as president since 1926.

The past presidents of the association, in addition to Mr. Schneider above mentioned, were: J. E. McKinney, St. Louis, Robert Morton, Detroit, Frank R. Shepard, Boston, William M. Regan, Minneapolis, H. H. Smith, Kansas City, A. Boettler, St. Louis, H. B. Leary, Washington, D. C., Simon Hubig, Cincinnati, William Merk, Los Angeles, Paul Schulze, Chicago, George F. Clarke, Jamestown, N. Y., F. H. Hohengarten, St. Louis, Mark Bredin, Toronto, George M. Haffner, Fort Wayne, Ind., Jay Burns, Omaha, Neb., Samuel F. McDonald, Memphis, Tenn., Henry Stude, Houston, Texas, George S. Ward, New York City, Gordon Smith, Mobile, Ala., C. N. Power, Pueblo, Colo., Wm M. Campbell, Kansas City, Mo., A. L. Taggart, Indianapolis, Ind. (acting president during the unexpired term of Mr. Campbell), William H. Kern, Davenport, Iowa, Raymond K. Stritzinger, Norristown, Pa., Lewis F. Holser, Minneapolis, and L. J. Schumaker, Philadelphia.

Federal Corn Grades

The following is a summary of the federal standards for shelled corn, as established by the Secretary of Agriculture and published in Handbook U. S. G. S. A. form 90.

CLASSES

Shelled corn shall be divided into the following three classes:

White corn, with at least 98 per cent by weight of white kernels.

Yellow corn, with at least 95 per cent by weight of yellow kernels.

Mixed corn, consisting of corn of various colors not coming within the limits for color provided for white and yellow corn.

GRADE REQUIREMENTS

The requirements for the several grades of corn under the foregoing classes are summarized in the following table:

Grade No.	Minimum test weight per bu. lbs	Maximum limits (per cent) of Moisture	Foreign matter and cracked corn	Damaged kernels—Total	Damaged kernels—Heat damage
1	55	14.0	2	2	0.0
2	53	15.5	3	4	0.1
3	51	17.5	4	6	0.3
4	49	19.5	5	8	0.5
5	47	21.5	6	10	1.0
6	44	23.0	7	15	2.0

Sample Grade shall be white corn, or yellow corn, or mixed corn, respectively, which does not come within the requirements of any of the grades from No. 1 to No. 6, inclusive, or which has any commercially objectionable foreign odor, or is heating, hot, or is otherwise of distinctly low quality.

(1) The corn in grades Nos. 1 to 5, inclusive, shall be cool and sweet.

(2) The corn in grade No. 6 shall be cool but may be musty or sour.

Weevily Corn shall be all corn that is infested with live weevils or other insects injurious to stored grain. It shall be graded and designated according to the grade requirements of the standards applicable to such corn if it were not weevily, and there shall be added to, and made a part of, the grade designation the word "Weevily."

Chicago—Flour Inspection

Several years ago a great deal of flour was purchased and handled by members of the Chicago Board of Trade, and at that time it became necessary to establish rigid rules regarding inspection, packing, weights, and the handling of flour. Today, however, the members of the Chicago Board of Trade who handle flour are probably not more than two or three in number. There is seldom if ever a sample of flour shown, yet the trade continues to make use of the inspection department, and abide by the rules of the Board of Trade.

The rules in force relating to flour are as follows: The fee for inspecting and branding flour within the city of Chicago shall be at the rate of 2¼c per bbl, whether the flour be in barrels or in sacks, the buyer to pay one half of same. Unless the flour in sacks is sewed and loaded in accordance with the regulations of the committee on flour inspection, the inspector will be entitled to charge for the labor necessary to put the flour in proper condition for inspection, a sum not to exceed $1 per car.

The flour committee of the Board of Trade consists of four men. Should any trouble arise, relating to the quality of flour or delivery, this committee takes care of it. If an appeal on the inspection of flour is wanted, it can be taken by paying a fee of $5, which must be deposited with the secretary of the board. In case the inspector is sustained, the fee is given to the committee; otherwise the money is returned to the person making the appeal. Appeals at times are taken from the inspector's rulings on weight, color, quality and soundness. Frank C. Sickinger is the official flour inspector.

Associated Bakers of America

For many years the retail bakers throughout the country felt that the National Association of Master Bakers was concerned mainly with the needs of the wholesalers, and that there was no organization on which the retailers could rely for assistance in case of need. Particularly after the Food Administration assumed control, the retailers felt that the laws promulgated paid no attention to the peculiar needs of the smaller baker, whose income is derived less from bread sales than from sweet goods. It was thus demonstrated that one national organization could not represent both the wholesalers and retailers satisfactorily.

Consequently, in the spring of 1918, a movement was started to organize the retailers into a national body, credit for which must be given largely to the Chicago Retail Master Bakers' executive board, through its president, Eugene Lipp, and secretary, John M. Hartley. A call was issued for a general conference in Chicago, July 16-17. At that time a temporary organization was effected, with Eugene Lipp, Chicago, as president.

The first annual convention was held Jan. 27-29, 1919, at Chicago. The constitution, as submitted to the delegates by the executive committee, was adopted almost unanimously. This fixed the name as the Retail Bakers' Association of America. In 1925 the name of the association was changed to the Associated Bakers of America. Retail and Wholesale, in deference to the wishes of many of the individual members of the association who were wholesalers on a small scale.

MILLERS' NATIONAL FEDERATION

Officers, directors and committee members of the Millers' National Federation for the year ending with the annual meeting in 1931:

OFFICERS

Chairman of the board, Carl B. Warkentin, Midland Flour Milling Co., Kansas City.

Vice chairmen: David C. Morton, Ballard & Ballard Co., Inc., Louisville; Benjamin Stockman, Duluth-Superior Milling Co., Duluth.

Executive vice president and treasurer, George Livingston, Chicago.

Secretary, Herman Steen, Board of Trade Building, Chicago. Washington representative, Herman Fakler.

Director of cost accounting, Arthur L. Chandler, Chicago.

Official counsel, Reed & Rogers, Chicago.

Commercial counsel, Herbert J. Campbell, Chicago.

BOARD OF DIRECTORS

H. L. Beecher, Eagle Roller Mill Co., New Ulm, Minn; F. B. Burke, Sperry Flour Co., San Francisco, Cal; C. C. Bovey, General Mills, Inc., Minneapolis; L. R. Bowman, Scott County Milling Co., Sikeston, Mo; F. E. Browder, Hubbard Milling Co., Mankato, Minn; Robert R. Clark, Aunt Jemima Mills Branch, The Quaker Oats Co., St. Joseph, Mo; O. D. Fisher, Fisher Flouring Mills Co., Seattle, Wash; A. L. Glister, Glister Milling Co., Chester, Ill; C. M. Hardenbergh, Commander-Larabee Corporation, Minneapolis; W. L. Harvey, International Milling Co., Minneapolis, Minn; H. S. Helm, Russell-Miller Milling Co., Minneapolis, Minn; Robert Henkel, Commercial Milling Co., Detroit, Mich; Karl E. Humphrey, Oklahoma City (Okla.) Mill & Elevator Co; C. T. Johnson, Home Mill & Grain Co., Mount Vernon, Ind; A. R. Kinney, Nebraska Consolidated Mills Co., Omaha, Neb; Joseph LeCompte, Lexington Roller Mills Co., Lexington, Ky; H. J. Lerch, Mauser Mill Co., Treichlers, Pa; R. Ward Magill, Kansas Milling Co., Wichita, Kansas; C. R. McClave, Montana Flour Mills Co., Great Falls, Mont; Mark N. Mennel, Mennel Milling Co., Toledo, Ohio; L. B. Miller, Ansted & Burk Co., Springfield, Ohio; John S. Pillsbury, Pillsbury Flour Mills Co., Minneapolis, Minn; John A. Sim, Hecker-Jones-Jewell Milling Co., New York; W. L. Sparks, Sparks Milling Co., Alton, Ill; C. Powell Smith, J. Allen Smith & Co., Knoxville, Tenn; Ralph C. Sowden, New Era Milling Co., Arkansas City, Kansas; W. M. Speed, Austin-Heaton Co., Durham, N. C; Carl B. Warkentin, Midland Flour Milling Co., Kansas City, Mo; I. E. Woodard, Acme-Evans Co., Indianapolis, Ind; E. O. Wright, Wisconsin Milling Co., Menomonie, Wis; George P. Urban, George Urban Milling Co., Buffalo, N. Y.

EXECUTIVE COMMITTEE

C. B. Warkentin, Midland Flour Milling Co., Kansas City, chairman; Sydney Anderson, General Mills, Inc., Minneapolis; H. L. Beecher, Eagle Roller Mill Co., New Ulm, Minn; Frank Hutchinson, Lawrenceburg (Ind.) Roller Mills Co; E. H. Leonard, Preston-Shaffer Milling Co., Waitsburg, Wash; Fred J. Lingham, Federal Mill, Inc., Lockport, N. Y; John H. Moore, Wichita (Kansas) Flour Mills Co; David C. Morton, Ballard & Ballard Co., Inc; Jesse B. Smith, Shellabarger Mill & Elevator Co., Salina, Kansas; E. T. Stanard, Stanard Tilton Milling Co., St. Louis.

STANDING COMMITTEES

Trade Practice Conference: Frank Hutchinson, Lawrenceburg (Ind.) Roller Mills Co., chairman; H. L. Beecher, Eagle Roller Mill Co., New Ulm, Minn; W. L. Harvey, International Milling Co., Minneapolis; George E. Hincke, Ismert-Hincke Milling Co., Kansas City; George Livingston, Chicago; Jesse B. Smith, Shellabargor Mill & Elevator Co., Salina, Kansas; C. B. Warkentin, Midland Flour Milling Co.

Farm Board Conference: Carl B. Warkentin, Midland Flour Milling Co., Kansas City, chairman; Frank J. Allen, Bay State Milling Co., Winona, Minn; F. J. Burke, Sperry Flour Co., San Francisco; O. D. Fisher, Fisher Flouring Mills Co., Seattle, Wash; E. C. Fockler, Dunlop Mills, Richmond, Va; W. C. Helm, Russell-Miller Milling Co., Minneapolis; C. M. Jackman, Kansas Milling Co., Wichita, Kansas; Fred J. Lingham, Federal Mill & Elevator Co., Inc., Lockport, N. Y; C. R. McClave, Montana Flour Mills Co., Great Falls, Mont; David Morton, Ballard & Ballard Co., Inc., Louisville; E. T. Stanard, Stanard Tilton Milling Co., St. Louis; T. C. Thatcher, Wichita Mill & Elevator Co., Wichita Falls, Texas; George Livingston, Chicago (ex-officio); Herman Steen, Chicago, secretary to the committee.

Finance: Ralph C. Sowden, chairman, New Era Milling Co., Arkansas City, Kansas; H. L. Beecher, Eagle Roller Mill Co., New Ulm, Minn; W. V. Hamilton, Wm. Hamilton & Son, Inc., Caledonia, N. Y; Karl E. Humphrey, Oklahoma City (Okla.) Mill & Elevator Co; Richard P. Johnson, J. Allen Smith & Co., Knoxville, Tenn; W. B. Webb, Wabasha Roller Mill Co., Wabasha, Minn.

Insurance: C. B. Jenkins, chairman, Noblesville Milling Co., Noblesville, Ind; William Boecke, Cascade Milling & Elevator Co., Cascade, Mont; M. L. Hallowell, Northwestern Milling Co., Minneapolis, Minn; H. R. Harmer, Hubbard Milling Co., Mankato, Minn; Alvin Long, Central Kansas Milling Co., Lyons, Kansas; R. T. Morrison, Page Milling Co., Luray, Va; George M. Ross, Ross Milling Co., Ottawa, Kansas.

Foodstuffs: P. M. Marshall, chairman, Commonwealth Flour Mills, Inc., St. Louis, Mo; William E. Henry, Stanard Tilton Milling Co., St. Louis, Mo; Don Jenkins, Noblesville Milling Co., Noblesville, Ind; D. G. Lowell, General Mills, Inc., Minneapolis, Minn; O. A. McCrea, Pillsbury Flour Mills Co., Minneapolis, Minn; M. F. Ring, Roanoke City Mills, Roanoke, Va; W. E. Sults, Quaker Oats Co., Chicago, Ill; H. C. Vogtel, H. D. Lee Flour Mills Co., Salina, Kansas.

Crop Improvement: R. W. Goodell, chairman, King Midas Mill Co., Minneapolis, Minn; Rudolph A. Goerz, Goerz Flour Mills Co., Newton, Kansas; J. L. Grigg, Southern Illinois Millers' Association, Sparta, Ill; A. A. Hanley, Hanley Milling Co., Mansfield, Ohio; A. R. Kinney, Nebraska Consolidated Mills Co., Omaha, Neb; C. H. Koenigsmark, Monroe Milling Co., Waterloo, Ill; Harry G. Randall, Washburn Crosby Co., Kansas City, Mo; O. L. Spencer, State Mill and Elevator, Grand Forks, N. D; A. Versteeg, Redfield Co-operative Mill, Redfield, S. D.

Arbitration: B. J. Stockman, chairman, Duluth-Superior Milling Co., Duluth, Minn; A. Alexander, Columbia River Milling Co., Wilbur, Wash; Charles Doyle, King Milling Co., Lowell, Mich; Lee F. Graybill, Warwick Co., Massillon, Ohio; F. F. Henry, Washburn Crosby Co., Inc., Buffalo, N. Y; Robert Imbs, J. F. Imbs Milling Co., St. Louis, Mo; J. J. Padden, Crookston Milling Co., Crookston, Minn; Julius Rieck, Springfield Milling Co., Springfield, Minn; E. A. Wall, Wall-Rogalsky Milling Co., McPherson, Kansas.

Package Differentials: Charles T. Olson, chairman, Commander Milling Co., Minneapolis, Minn; A. E. Bernet, Commonwealth Flour Mills, Inc., St. Louis, Mo; S. T. Chase, Lexington Roller Mills Co., Lexington, Ky; Stewart P. Elliott, Sperry Flour Co., San Francisco, Cal; Henry Hagens, Valley City Milling Co., Grand Rapids, Mich; M. E. Humphrey, Chickasha Milling Co., Chickasha, Okla; R. Ward Magill, Kansas Milling Co., Wichita, Kansas; David G. Page, Thomas Page Milling Co., Topeka, Kansas; John S. Pillsbury, Pillsbury Flour Mills Co., Minneapolis, Minn; W. M. Speed, Austin-Heaton Co., Durham, N. C.

Membership: Chauncy Abbott, Jr., chairman, Omaha Flour Mills Co., Omaha, Neb; Edwin C. Fockler, Dunlop Mills, Richmond, Va; M. W. Fuhrer, Fuhrer-Ford Milling Co., Mount Vernon, Ind; M. P. Fuller, Everett, Aughenbaugh & Co., Minneapolis, Minn; Fred Y. Henkel, Commercial Milling Co., Detroit, Mich; H. L. Perrigo, Victor Flour Mills, Inc., Pittsford, N. Y; A. E. Ponder, Glister Milling Co., Chester, Ill; M. G. Russi, Wasco Warehouse Milling Co., The Dalles, Oregon; M. E. Schulz, Walnut Creek Milling Co., Great Bend, Kansas.

Transportation: Mark N. Mennel, chairman, Mennel Milling Co., Toledo, Ohio; E. H. Hogueland, Southwestern Millers' League, Kansas City, Mo; Carl C. Krehbiel, Moundridge (Kansas) Milling Co; C. A. Lahey, Quaker Oats Co., Chicago, Ill; Robert C. Miner, Miner-Hillard Milling Co., Wilkes-Barre, Pa; W. H. Perry, Pillsbury Flour Mills Co., Minneapolis, Minn; Martin F. Smith, Southern Minnesota Mills, Minneapolis, Minn.

Sales Policy: Harold R. Ward, chairman, Russell-Miller Milling Co., Minneapolis, Minn; Hugh Baum, William Kelly Milling Co., Hutchinson, Kansas; John W. Cain, Midland Flour Milling Co., Kansas City, Mo; C. G. Dietz, Commander-Larabee Corp., Minneapolis, Minn; Howard W. Files, Pillsbury Flour Mills Co., Minneapolis, Minn; Harry F. Marsh, International Milling Co., Minneapolis, Minn; H. R. McLaughlin, Washburn Crosby Co., Inc., Minneapolis, Minn; C. B. MacLeod, Commercial Milling Co., Detroit, Mich; John A. Reis, Acme-Evans Co., Indianapolis, Ind; Alfred Sowden, New Era Milling Co., Arkansas City, Kansas.

Export Trade: A. E. Mallon, chairman, Pillsbury Flour Mills Co., Minneapolis, Minn; R. F. Bausman, Washburn Crosby Co., New York, N. Y; John W. Cain, Midland Flour Milling Co., Kansas City, Mo; C. S. Coup, Northwestern Elevator & Mill Co., Toledo, Ohio; O. D. Fisher, Fisher Flouring Mills Co., Seattle, Wash; A. L. Jacobson, Arnold Milling Co., Sterling, Kansas; John C. Koster, Larabee Flour Mills Co., Kansas City, Mo; John Vanier, Western Star Milling Co., Salina, Kansas.

Future Trading: B. J. Rothwell, chairman, Bay State Milling Co. and Lawrenceburg Roller Mills Co., Boston, Mass; Fred F. Burns, Consolidated Flour Mills Co., Wichita, Kansas; E. B. Hackney, Blair Milling Co., Atchison, Kansas; C. M. Hardenbergh, Commander-Larabee Corp., Minneapolis, Minn; C. B. Jenkins, Noblesville Milling Co., Noblesville, Ind; P. D. McMillan, General Mills, Inc., Minneapolis, Minn; Charles B. Stout, Washington (Mo.) Flour Mill.

Accounting: A. L. Chandler, chairman, Millers' National Federation, Chicago, Ill; H. L. Beatty, Pillsbury Flour Mills Co., Minneapolis, Minn; W. R. Bow, Fisher Flouring Mills Co., Seattle, Wash; L. O. Bracy, Amendt Milling Co., Monroe, Mich; H. A. Bullis, General Mills, Inc., Minneapolis, Minn; David S. Jackman, Kansas Milling Co., Wichita, Kansas; R. R. McCreight, Midland Flour Milling Co., Kansas City, Mo; M. L. Underwood, Buckeye Cereal Co., Massillon, Ohio; W. B. Whitney, Model Mill Co., Inc., Johnson City, Tenn.

Flour Definitions and Standards: Fred J. Lingham, chairman, Federal Mill, Inc., Lockport, N. Y; J. L. Davis, Bilsh Milling Co., Seymour, Ind; M. A. Gray, Pillsbury Flour Mills Co., Minneapolis, Minn; W. L. Haley, Fisher Flouring Mills Co., Seattle, Wash; Leslie R. Olsen, International Milling Co., Minneapolis, Minn; Walter C. Smith, Larabee Flour Mills Co., Kansas City, Mo; W. H. Strowd, Home Mill & Grain Co., Mount Vernon, Ind; G. Cullen Thomas, General Mills, Inc., Minneapolis, Minn; J. B. M. Wilcox, Ismert-Hincke Milling Co., Kansas City, Mo.

Grain Standards and Inspection: C. M. Hardenbergh, chairman, Commander-Larabee Corp., Minneapolis, Minn; E. N. Fairchild, Fairchild Milling Co., Cleveland, Ohio; Al V. Imbs, J. F. Imbs Milling Co., St. Louis, Mo; C. C. Kelly, William Kelly Milling Co., Hutchinson, Kansas; Walter H. Mills, Washburn Crosby Co., Inc., Minneapolis, Minn; Richard Swartz, New Ulm (Minn.) Roller Mills Co; William Volls, Hunter Milling Co., Wellington, Kansas; I. E. Woodard, Acme-Evans Co., Indianapolis, Ind.

White Flour Consumption: F. J. Allen, chairman, Bay State Milling Co., Winona, Minn; A. B. Anderson, Red Star Milling Co., Wichita, Kansas; Fred Borries, Ballard & Ballard Co., Inc., Louisville, Ky; H. T. Corson, National Food Bureau, Chicago, Ill; L. G. Gottschick, H. D. Lee Flour Mills Co., Salina, Kansas; E. D. Lysle, J. C. Lysle Milling Co., Leavenworth, Kansas; John A. Sim, Hecker-Jones-Jewell Milling Co., New York, N. Y; Dwight K. Yerxa, Pillsbury Flour Mills Co., Buffalo, N. Y.

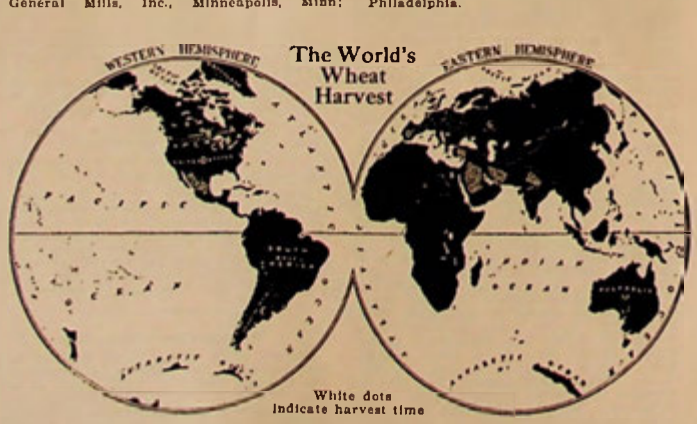
Sales Contract: Jesse B. Smith, chairman, Shellabarger Mill & Elevator Co., Salina, Kansas; M. A. Briggs, Austin-Heaton Co., Durham, N. C; Howard W. Files, Pillsbury Flour Mills Co., Minneapolis, Minn; Richard A. Hoyt, Tennant & Hoyt Co., Lake City, Minn; Roger S. Hurd, Red Star Milling Co., Wichita, Kansas; E. H. Leonard, Preston Shaffer Milling Co., Waitsburg, Wash; E. A. Weaver, B. A. Eckhart Milling Co., Chicago, Ill; Morris A. Wilkins, Plant Flour Mills Co., St. Louis, Mo; Gordon B. Wood, Midland Flour Milling Co., Kansas City, Mo.

Legislation: David C. Morton, chairman, Ballard & Ballard Co., Inc., Louisville, Ky; Sydney Anderson, General Mills, Inc., Minneapolis, Minn; George E. Hincke, Ismert-Hincke Milling Co., Kansas City, Mo; George M. Lowry, Wichita Flour Mills Co., Wichita, Kansas; Mark N. Monnel, Mennel Milling Co., Toledo, Ohio; John S. Pillsbury, Pillsbury Flour Mills Co., Minneapolis, Minn; John A. Sim, Hecker-Jones-Jewell Milling Co., New York, N. Y; E. C. Stott, David Stott Flour Mills, Inc., Detroit, Mich; George P. Urban, George Urban Milling Co., Buffalo, N. Y; Herman Fakler, secretary to committee, Millers' National Federation, Washington, D. C.

Public Relations: J. B. McLemore, chairman, Model Mill Co., Inc., Johnson City, Tenn; E. Bernet, Commonwealth Flour Mills, Inc., St. Louis, Mo; W. C. Holm, Russell-Miller Milling Co., Minneapolis, Minn; Karl E. Humphrey, Oklahoma City (Okla.) Mill & Elevator Co; M. Kivlighan, White Star Mills, Staunton, Va; Walter C. Smith, Larabee Flour Mills Co., Kansas City, Mo; Herman Steen, Millers' National Federation, Chicago, Ill; H. H. Whiting, Pillsbury Flour Mills Co., Minneapolis, Minn.

New York—Handling Complaints

The New York Produce Exchange rules permit nonmembers of the organization to make complaint against members. Many commercial exchanges permit complaints only from another member of the exchange, and this was formerly the case in New York. The same condition is true regarding complaints against members of the Bourse, Philadelphia.



Millers' Trade Practice Conference

After an extensive campaign of education throughout the various milling sections of the country, sponsored by the Millers' National Federation, the milling industry at a meeting in Chicago, May 22, 1930, voted for a trade practice conference with the Federal Trade Commission. A set of trade rules for the industry, with tentative plans for enforcing them, were decided upon, subject to the approval of the commission. Application for a trade practice conference was filed immediately, and the Federal Trade Commission announced that a conference date would be set as soon as possible.

Very shortly thereafter, a controversy arose within the commission regarding trade practice rules, which made it advisable that the conference date be postponed until such time as a definite policy for the future could be outlined by the commission. Some industries, which had previously held conferences with the commission, were accused of taking advantage of their rules to fix prices and of other illegal acts. The Department of Justice proceeded against several of these industries, and as a result there was considerable uncertainty regarding the authority of the commission to approve or enforce trade practice rules.

The commission then proceeded with an investigation of all rules they had previously approved, and notice was given to various industries operating under trade practice rules that some changes would be made by the commission. This action brought forth protest from some 110 industries operating under rules previously approved by the commission, and at a meeting representatives of these industries adopted resolutions strongly condemning the action of the commission. The trade practice conference committee of the Millers' National Federation, therefore, has delayed action until such time as developments within the commission suggest the advisability of proceeding.

The following trade rules for the flour milling industry were approved by a substantial majority of the industry through a questionnaire submitted by the Millers' National Federation, and were adopted at the meeting in Chicago, subject to the approval of the Federal Trade Commission:

1. As experience has shown that the cost of carrying wheat or flour, whether stored in the miller's warehouse or in public storage, is approximately one third cent per barrel per day and constitutes a legitimate part of the cost of doing business, and further, that the practice of selling flour for long deferred delivery without assessing and collecting carrying charges results in wasteful and uneconomic speculation, harmful alike to producer, miller, baker and consumer—

Therefore, Be It Resolved, That for the purpose of preventing, as far as possible, such harmful and wasteful speculation in flour it is the sense of the milling industry that—

(a) Ninety-day basis. All flour sales shall be made for delivery within 90 days from date of contract; provided that when shipment is permitted beyond the 90-day period, the cost of carrying flour or wheat or flour for such extended period shall be added to the 90-day basis specified in the contract.

(b) Assessing Carrying Charge. Carrying charges shall be assessed and collected from the buyer in all cases where shipping directions are not furnished in accordance with the contract and in time to permit shipment within the 90-day contract period.

(c) Waiving Carrying Charge. Waiving, nonassessment, or cancellation of any charges specified in the sales contract, to one customer and not to another, is a rebate and discriminatory as between buyers and is an unfair business practice.

2. Sales Below Cost—Resolved, That the sale of wheat flour below cost for the purpose and with the intent of injuring a competitor, and/or with the effect of lessening competition, either between sellers or buyers, is an unfair business practice.

3. Price Discrimination—Resolved, That price discrimination with the object or effect of lessening competition either between sellers or buyers, is an unfair business practice, except in those cases which take into consideration:

(a) Difference in grade, quality and quantity of flour sold; or

(b) Which make due allowance for the difference in selling cost or transportation; or

(c) Where the price is made in good faith and only to meet (not discount) actual demonstrated competition.

4. Rebates—Resolved, That the granting of secret rebates, irrespective of the form they may assume, is an unfair business practice.

5. Commercial Bribery—Resolved, That paying, promising to pay or supplying to any agent or any intermediary, without the knowledge of his principal, of money, gratuities, commissions, or other consideration of any character for the purpose of inducing or compensating for a sale, is an unfair business practice.

6. Guaranty Against Decline or Rewriting Contracts—Resolved, That guaranteeing contract price against decline, or cancellation or rewriting of contract without adequate compensation for loss resulting from market decline or cancellation or rewriting of contract for the purpose or effect of avoiding the accrual or collection of carrying charges, is an unfair business practice.

7. Defamation of Competitor—Resolved, That the defamation of a competitor, or the false disparagement of his goods, in any manner, is an unfair business practice.

German Flour Importers' Association

The officers of the German Flour Importers' Association, the headquarters of which are at Hamburg, are as follows: president, A. Beyer; secretary, E. A. Depken.

April

THE UNITED STATES ENTERED THE WORLD WAR

1931

NOTABLE TRADE EVENTS

THOMAS A. McINTYRE, New York, organized $25,000,000 company to be known as the United States Flour Milling Co., acquiring plants at Buffalo, Duluth, Superior, Milwaukee and Minneapolis. The scheme was impractical and built on an insecure financial basis. Through the efforts of The Northwestern Miller the scheme was exposed, and subsequently the firm failed. 1899.

English House of Lords upheld flour bleaching patents. 1908.

British government took over control of flour mills and flour imports. 1917.

"Eat More Wheat" campaign officially indorsed by Millers' National Federation. 1923.

Millers' National Federation reorganized. 1924.

A code of ethics, a concise statement of simple rules for the guidance of the business conduct of millers, was adopted by the Millers' National Federation, in session at Chicago. 1925.

Millers' National Federation opened an office in Washington. 1925.

Ward Food Products Corporation is dissolved as a result of a consent decree issued by the United States Department of Justice. 1926.

The Southwestern Millers' League reorganized on lines similar to those of the Millers' National Federation, enlarging the scope of its activities. L. E. Moses elected president. 1928.

Supreme Court of the United States held that registration of a trade-mark does not extend into states where business is not done under that mark. 1929.

Grain Stabilization Corporation provided a plan whereby millers might purchase wheat from the corporation at a price equivalent to the price for export wheat of a similar grade, quality and position on the day of the bid. Wheat so purchased had to be used in filling export sales made after the date of the contract and the flour shipped before Aug. 15, when the privilege was withdrawn. 1930.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day of the Week		W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T
Minneapolis Mean Time	Sun Rises H. M.	5 42	5 40	5 38	5 36	5 35	5 33	5 31	5 30	5 28	5 26	5 25	5 23	5 21	5 20	5 18	5 17	5 15	5 14	5 12	5 10	5 9	5 7	5 6	5 4	5 3	5 1	5 0	4 59	4 57	4 56
	Sun Sets H. M.	6 26	6 28	6 29	6 30	6 31	6 32	6 33	6 34	6 35	6 36	6 38	6 39	6 40	6 41	6 42	6 43	6 44	6 45	6 46	6 48	6 49	6 50	6 51	6 52	6 53	6 54	6 55	6 56	6 58	6 59

United States Grain Exchanges

The following is a list of the grain exchanges in the United States: St. Louis Merchants' Exchange, Chicago Board of Trade, Peoria Board of Trade, Milwaukee Chamber of Commerce, Kansas City Board of Trade, Minneapolis Chamber of Commerce, Duluth Board of Trade, Indianapolis Board of Trade, Omaha Grain Exchange, Cincinnati Grain and Hay Exchange, Toledo Produce Exchange, Cleveland Grain and Hay Exchange, Little Rock Board of Trade, St. Joseph Grain Exchange, Atchison Board of Trade, Fort Worth Grain and Cotton Exchange, Louisville Board of Trade, Memphis Merchants' Exchange, Houston Grain and Hay Exchange, Topeka Board of Trade, Wichita Board of Trade, Salina Board of Trade, Hutchinson Board of Trade, Oklahoma City Board of Trade, Enid Board of Trade, Denver Grain Exchange, Sioux City Grain Exchange, Seattle Board of Trade, Lincoln Grain Exchange, Des Moines Board of Trade, Tacoma Grain Exchange, Los Angeles Grain Exchange, San Francisco Grain Exchange, Seattle Grain Exchange, New York Produce Exchange, Boston Grain & Flour Exchange, Baltimore Chamber of Commerce, Philadelphia Commercial Exchange, Buffalo Corn Exchange, New Orleans Board of Trade, Newport News Chamber of Commerce, Detroit Board of Trade, Galveston Board of Trade.

MEASURES TO PREVENT EXPLOSIONS

The dust explosion hazards committee of the National Fire Protection Association has approved the following regulations for the prevention of dust explosions in flour and feed mills:

MILL BUILDINGS

The daylight type of mill building—that is, a large window area—is recommended.

Fire resistive construction or mill construction is recommended.

Cleaning department should be cut off from other departments by standard fire wall.

ELEVATOR AND STORAGE BINS

All storage bins shall be covered, the side walls extending solidly to the roof of the bins, there being no connection between bins.

Tunnels and basements shall extend as much above natural ground level, and shall be as large and roomy, as is practicable. All tunnels and basements shall be dry, and shall have all the natural light possible to obtain, either by means of windows, areaways or sidewalk glass.

Basements of all buildings shall be of such construction as to permit the free circulation of air to all parts, and shall be vented by air shafts exhausting above the roof, or by other approved method.

MILL, ELEVATOR AND STORAGE BINS

Construction should be such that all interior walls, including bin walls, shall be smooth and free from pockets or ledges that will permit the accumulation of dust. In special cases, where it is not practicable to entirely eliminate ledges, then such ledges should be finished with smooth surface and be made as steep as possible. All pipes, conduits, etc., that of necessity are exposed, should be fastened to walls or ceilings in such a manner as to present a minimum surface for the collection of dust.

Roofs and side walls of belt conveyor galleries and the side walls of all cupolas above bins should be constructed of light material offering little or no resistance to explosive energy.

Note: The term "light material" contemplates corrugated galvanized iron, corrugated zinc, corrugated asbestos, brick tile or gunite, and for cupola construction is intended to apply only to curtain or panel walls between columns. Concrete may also be used similarly, provided the window area is greater than 40 per cent of the free wall area.

CONTROL OF SUSPENDED DUST

All elevator legs, spouting, roll housings, screw conveyors and stock hoppers and bins shall be dust-tight.

All roll housings, elevator heads and elevator boots on large stands of elevators shall be vented by mechanical exhaust to dust collectors.

Dust collectors shall be of the metal cyclone type, and each shall be vented directly out of doors or to a secondary system of similar collectors which are vented to outside air.

Wind trunking shall be of metal.

Belt conveyors shall be provided with hooded air suctions at either or both ends when practical.

All grain bins (except tempering bins) shall be vented to the outside air with a 12-inch or larger metal pipe properly hooded to prevent the entrance of excessive moisture.

REMOVAL OF STATIC DUST

All surfaces on which dust tends to settle shall be cleaned off sufficiently often to prevent the accumulation of a coating of dust.

For removal of dust from motors, drier coils and other intricate surfaces, mills should be equipped with a compressed air system, operating at from 60 to 100 lbs pressure. Either a fixed compressor with suitable piping and hose or a portable compressor set may be used. When the latter is used it shall be provided with a tank of sufficient capacity to maintain pressure for a considerable length of time, making it unnecessary to bring the tank to pressure while in the mill.

The use of vacuum sweeping systems is recommended for the removal of static dust in grain storage and elsewhere when practical.

PREVENTION OF IGNITION

Open flames shall not be permitted.

Open flame heaters or electric heaters shall not be used except in such locations as a laboratory, where not exposed to dust.

Smoking and the carrying of matches shall not be permitted.

Electrical equipment shall be installed according to the regulations of the national electric code for electrical devices in dusty locations.

Static electricity shall be removed from such machines as accumulate a charge by permanent ground wires and from belts by grounded metal comb or other equally efficient systems.

Fans and blowers shall be so constructed that fan blades cannot come in contact with fan housing. Bearings shall set well away from fan housing to prevent the forcing of grease to the inside of the fan housing or air chamber. (See blower system regulations of the National Fire Protection Association.)

Ball or roller bearings should be used wherever practical; otherwise, rings, chain or collar oiler bearings should be used.

Pneumatic or magnetic separators (preferably pneumatic) shall be placed ahead of each grinding or pulverizing machine of the roller, attrition or beater type (except those grinders which further reduce the ground stock in the same system and those machines grinding bulky stock on which separators cannot be operated). In addition to the above, such separators shall be placed ahead of scourers where used.

Stock from an attrition mill or beater type of grinder shall be lifted by air through a metal wind trunk to a cyclone dust collector properly vented, or shall be discharged into a metal screw conveyor. The flights on the conveyor shall terminate 18 inches or further from the discharge and in such a way as to form a solid mass of stock at that point. The cover of conveyor at the discharge end shall be held in place by springs to give relief if the spout receiving stock from the conveyor should choke.

Export Sack Markings

The question as to whether flour packages going into the United Kingdom must be specifically marked as having been milled in the United States, or whether it is sufficient that the origin be indicated by the address of the miller, has been answered as follows by A. L. H. Street, legal contributor to The Northwestern Miller:

Unless there happens to be some recently adopted regulation to the contrary, and a careful search fails to disclose it, it is not necessary to mark flour packages with such specifications as "made in U. S. A." or "milled in U. S. A." The requirements of the British merchandise marks act under this head appear to be sufficiently met if there is "a definite indication of the country in which the goods were made or produced."

It is said, with apparent accuracy, at pages 851-852 of "Exporters' Encyclopedia," 1919-1920. "The 'merchandise marks act' of Great Britain provides that foreign goods imported into the United Kingdom, which do not bear any mark whatever, either on the goods themselves or on the packages or wrappers containing them, are not required to bear any qualifying statement, such as 'made abroad,' or 'made in the U. S.'

"Foreign goods bearing a name or trademark of a manufacturer in the United Kingdom must have that name or trademark, accompanied by a definite indication of the country of origin of the goods. The name of the country is a sufficient indication without the words 'made in.' If the name or trademark only appears; for instance 'John Smith, United States,' would be satisfactory. If such a mark as 'John Smith, Sheffield,' which is a place in England, is used, then the qualification must be 'made in the U. S. A.,' or similar wording.

"If the foreign imported goods bear the name of a place identical with or colorable imitation of a place in the United Kingdom (such as Newark, being also the name of a place in England), the name or trademark should be accompanied by the name of the country in which the place is situated; thus Boston, in Massachusetts, should be accompanied by the name 'United States' or 'U. S.'

"In no way must the trademark on imported goods seek to give the impression that the goods are of British or Irish origin.

"Trade descriptions in any language not the language of the country of origin must be accompanied by a statement of the actual country of production of the goods as, for instance, 'Made in Germany.'

"All the foregoing qualifications must be distinct, in equally conspicuous characters with and in proximity to the marks they are intended to qualify."

The Bushel

The volume of a bushel measure in the United States (called Winchester bushel) is 2,150.42 cubic inches; this is equivalent to a cube each side of which is about 12.9 inches.

The volume of a bushel measure in England (called imperial bushel) is about 3.1 per cent greater than the bushel measure used in the United States; it contains 2,218.19 cubic inches, which is equivalent to a cube each side of which measures slightly more than 13 inches.

Transactions in wheat are now made almost wholly on the basis of bushels, not of a certain volume but of a definite weight, 60 lbs.

A legalized bushel weight has been established by the United States government (mainly for customs purposes) for a few agricultural products, as follows: barley, 48 lbs; castor beans, shelled, 50; buckwheat, 48; corn, shelled, 56; corn meal, 48; flaxseed (linseed), 56; oats, 32; peas, 60; potatoes, 60; rye, 56; wheat, 60.

The bushel weights adopted by the Bureau of Statistics of the Department of Agriculture are as follows:

Barley, 48 lbs; beans (dry), 60; buckwheat, 48; clover seed, 60; corn, shelled, 56; corn on cob, 70; flaxseed, 56; oats, 32; peaches, 48; potatoes, 60; rye, 56; timothy seed, 45; wheat, 60.

ANTIDUMPING TARIFF SECTIONS

The following sections of the United States tariff law of 1930 cover the special authority conferred on the President to alter and raise import duties, or to impose additional duties, on imported commodities in order to prevent the dumping of goods of foreign origin in United States markets:

Sec. 336. (a) That in order to put into force and effect the policy of Congress by this act intended, the commission (1) upon request of the President, or (2) upon resolution of either or both houses of Congress, or (3) upon its own motion, or (4) when in the judgment of the commission there is good and sufficient reason therefor, upon application of any interested party, shall investigate the difference in the costs of production of any domestic article and of any like or similar foreign article. In the course of the investigation the commission shall hold hearings and give reasonable public notice thereof, and shall afford reasonable opportunity for parties interested to be present, to produce evidence, and to be heard at such hearings. The commission is authorized to adopt such reasonable procedure and rules and regulations as it deems necessary to execute its functions under this section. The commission shall report to the President the results of the investigation and its findings in respect to such differences in costs of production. If the commission finds it shown by the investigation that the duties expressly fixed by statute do not equalize the differences in the costs of production of the domestic article and the like or similar foreign article when produced in the principal competing country, the commission shall specify in its report such increases or decreases in rates of duty expressly fixed by statute (including any necessary change in classification) as it finds shown by the investigation to be necessary to equalize such differences. In no case shall the total increase or decrease of such rates of duty exceed 50 per centum of the rates expressly fixed by statute.

(b) That if the commission finds upon any such investigation that such differences cannot be equalized by proceeding as hereinbefore provided, it shall so state in its report to the President and shall specify therein such ad valorem rates of duty, based upon the American selling prices (as defined in section 402 g) of the domestic article, as it finds shown by the investigation to be necessary to equalize such differences. In no case shall the total decrease of such rates of duty exceed 50 per centum of the rates expressly fixed by statute, and no such rate shall be increased.

(c) That the President shall by proclamation approve the rates of duty and changes in classification and basis of value specified in any report of the commission under this section, if in his judgment such rates of duty and changes are shown by such investigation of the commission to be necessary to equalize such differences in costs of production.

(d) That commencing 30 days after the date of any presidential proclamation of approval, the increased or decreased rates of duty and changes in classification or in basis of value specified in the report of the commission shall take effect.

(e) That in ascertaining under this section the differences in costs of production, the commission shall take into consideration in so far as it finds practicable:

(1) In the case of a domestic article.—(a) The cost of production as hereinafter in this section defined; (b) transportation costs and other costs incident to delivery to the principal market or markets of the United States for the article; and (c) other relevant factors that constitute an advantage or disadvantage in competition.

(2) In the case of a foreign article.—(a) The cost of production as hereinafter in this section defined, or, if the commission finds that such cost is not readily ascertainable, the commission may accept as evidence thereof, or as supplemental thereto, the weighted average of the invoice prices or values for a representative period and/or the average wholesale selling price for a representative period (which price shall be that at which the article is freely offered for sale to all purchasers in the principal market or markets of the principal competing country or countries in the ordinary course of trade and in the usual wholesale quantities in such market or markets); (b) transportation costs and other costs incident to delivery to the principal market or markets of the United States for the article; (c) other relevant factors that constitute an advantage or disadvantage in competition, including advantages granted to foreign producers by a government, person, partnership, corporation, or association in a foreign country.

(f) That any increased or decreased rate of duty or change in classification or basis of value which has taken effect as above provided may be modified or terminated in the same manner and subject to the same conditions and limitations (including time of taking effect) as is provided in this section in the case of original increases, decreases or changes.

(g) That nothing in this section shall be construed to authorize a transfer of an article from the dutiable list to the free list or from the free list to the dutiable list, nor a change in form of duty. Whenever it is provided in any paragraph of title I of this act, or in any amendatory act, that the duty or duties shall not exceed a specified ad valorem rate upon the articles provided for in such paragraph, no rate determined under the provisions of this section upon such articles shall exceed the maximum ad valorem rate so specified.

(h) That for the purposes of this section —(1) the term "domestic article" means any article wholly or in part the growth or product of the United States; and the term "foreign article" means an article wholly or in part the growth or product of a foreign country.

(2) The term "United States" includes the several states and territories and the District of Columbia.

(3) The term "foreign country" means an empire, country, dominion, colony, or protectorate, or any subdivision or subdivisions thereof (other than the United States and its possessions).

(4) The term "cost of production" when applied with respect to either a domestic article or a foreign article, includes, for a period which is representative of conditions in production of the article: (a) the price or cost of materials, labor costs, and other direct charges incurred in the production of the article and in the processes or methods employed in its production; (b) the usual general expenses, including charges for depreciation which are representative of the equipment and property employed in the production of the article and charges for rent or interest which are representative of the cost of obtaining capital or instruments of production; and (c) the cost of containers and coverings of whatever nature, and other costs, charges and expenses incident to placing the article in condition packed ready for delivery.

(i) That the President is authorized to make all needful rules and regulations for carrying out his functions under the provisions of this section.

(j) That the Secretary of the Treasury is authorized to make such rules and regulations as he may deem necessary for the entry and declaration of foreign articles of the class or kind of articles with respect to which a change in the basis of value has been under the provisions of subdivision (b) of this section and for the form of invoice required at the time of entry.

UNFAIR COMPETITION

Section 337. (a) That unfair methods of competition and unfair acts in the importation of articles into the United States, or in their sale by the owner, importer, consignee, or agent of either, the effect or tendency of which is to destroy or substantially injure an industry, efficiently and economically operated, in the United States, or to prevent the establishment of such an industry, or to restrain or monopolize trade and commerce in the United States, are hereby declared unlawful, and when found by the President to exist shall be dealt with, in addition to any other provisions of law, as hereinafter provided.

(b) That to assist the President in making any decisions under this section the United States Tariff Commission is hereby authorized to investigate any alleged violation hereof on complaint under oath or upon its initiative.

(c) That the commission shall make such investigation under and in accordance with such rules as it may promulgate and give such notice and afford such hearing, and when deemed proper by the commission such hearing with opportunity to offer evidence, oral or written, as it may deem sufficient for a full presentation of the facts involved in such investigation; that the testimony in every such investigation shall be reduced to writing, and a transcript thereof with the findings and recommendation of the commission shall be the official record of the proceedings and findings in the case, and in any case where the findings in such investigation show a violation of this section, a copy of the findings shall be promptly mailed or delivered to the importer or consignee of such articles; that such findings, if supported by evidence, shall be conclusive, except that a rehearing may be granted by the commission, and except that, within such time after said findings are made and in such manner as appeals may be taken from decisions of the United States Customs Court, an appeal may be taken from said findings upon a question or questions of law only to the United States Court of Customs and Patent Appeals by the importer or consignee of such articles; that if it shall be shown to the satisfaction of said court that further evidence should be taken, and that there were reasonable grounds for the failure to adduce such evidence in the proceedings before the commission, said court may order such additional evidence to be taken before the commission in such manner and upon such terms and conditions as to the court may seem proper; that the commission may modify its findings as to the facts or make new findings by reason of additional evidence, which, if supported by the evidence, shall be conclusive as to the facts except that within such time and in such manner an appeal may be taken as aforesaid upon a question or questions of law only; that the judgment of said court shall be final.

(d) That the final findings of the commission shall be transmitted with the record to the President.

(e) That whenever the existence of any such unfair method or act shall be established to the satisfaction of the President, he shall direct that the articles concerned in such unfair methods or acts, imported by one person violating the provisions of this act, shall be excluded from entry into the United States, and upon information of such action by the President, the Secretary of the Treasury shall, through the proper officers, refuse such entry. The decision of the President shall be conclusive.

(f) That whenever the President has reason to believe that any article is offered or sought to be offered for entry into the United States in violation of this section, but has not information sufficient to satisfy him thereof, the Secretary of the Treasury shall, upon his request in writing, forbid entry thereof until such investigation as the President may deem necessary shall be completed; except that such article shall be entitled to entry under bond prescribed by the Secretary of the Treasury.

(g) That any refusal of entry under this section shall continue in effect until the President shall find and instruct the Secretary of the Treasury that conditions which led to such refusal of entry no longer exist.

American Corn Millers' Federation

The American Corn Millers' Federation was formed in the summer of 1918, the purpose of the organization being to bring together corn millers of the country for the general welfare of their industry. The first meeting was held in the Congress Hotel, Chicago, Nov. 29-30, 1918.

What Is a Carrying Charge?

A carrying charge is the expense of carrying wheat to protect the miller from loss on flour sold, from the date upon which the flour is booked to the time of its delivery. This protection can be had by buying the wheat and placing it in store, or by buying the wheat option for future delivery.

In the first instance the carrying expense is made up of interest, insurance and storage charges. In the second instance it consists of brokerage, etc.

Canada—Opening and Closing of Navigation

Statement of average dates of opening and closing of grain ports in Canada:

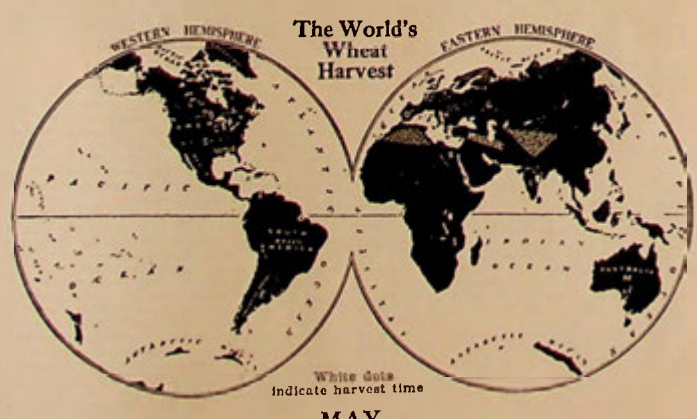
Port—	Opening	Closing
Montreal	April 25	Nov. 28
Prescott	April 25	Dec. 10
Kingston	April 20	Dec. 15
Port Colborne (Canal)	April 15	Dec. 1
Toronto	April 5	Dec. 15
Sarnia	April 15	Dec. 10
Goderich	April 20	Dec. 19
Wiarton	April 20	Dec. 10
Owen Sound	April 20	Dec. 10
Collingwood	April 20	Dec. 10
Meaford	April 20	Dec. 10
Midland	April 20	Dec. 10
Parry Sound	April 20	Dec. 10
Sault Ste. Marie	April 20	Dec. 10
Port Arthur	April 25	Dec. 6
Fort William	April 25	Dec. 6

Quebec harbor is usually open all winter, but navigation with lower ports and the sea opens on an average about April 10, and closes about Dec. 10. St. John harbor and Halifax harbor are open all the year round. So also are Vancouver, Prince Rupert and the other Canadian harbors on the Pacific Coast.

Federation Mass Conventions

Following is a list of the Mass Conventions held under auspices of the Millers' National Federation since its organization:

Detroit, June 3, 4, 5, 1903.
Niagara Falls, June 8, 9, 10, 1904.
Kansas City, June 7, 8, 9, 1905.
Milwaukee, June 20, 21, 22, 1906.
St. Louis, May 28, 29, 30, 1907.
Detroit, June 10, 11, 12, 1908.
Chicago, May 26, 27, 28, 1909.
Minneapolis, June 22, 23, 24, 1910.
Niagara Falls, June 14, 15, 16, 1911.
Kansas City, May 29, 30, 31, 1912.
Note: No convention held in 1913.
Old Point Comfort, Va., May 27, 28, 29, 30, 1914.
Toledo, June 2, 3, 4, 1915.
No conventions were held in 1916, 1917, 1918, 1919 or 1920.
Chicago, June 29, 30 and July 1, 1921.
Kansas City, May 31, June 1 and 2, 1922.
No mass conventions of the Federation have been held since 1922.



THE REGISTRATION OF TRADEMARKS

The following are extracts from the laws authorizing the registration of trademarks.

"The owner of a trademark used in commerce with foreign nations, or among the several states, or with Indian tribes, provided such owner shall be domiciled within the territory of the United States, or resides in or is located in any foreign country, which, by treaty, convention, or law, affords similar privileges to the citizens of the United States, may obtain registration for such trademarks by complying with the following requirements: First, by filing in the Patent Office an application therefor, in writing, addressed to the Commissioner of Patents, signed by the applicant, specifying his name, domicile, location, and citizenship; the class of merchandise and the particular description of goods comprised in such class to which the trademark is appropriated; a statement of the mode in which the same is applied and affixed to goods and the length of time during which the trademark has been used; a description of the trademark itself shall be included, if desired by the applicant or required by the commissioner, provided such description is of a character to meet the approval of the commissioner. With this statement shall be filed a drawing of the trademark, signed by the applicant, or his attorney, and such number of specimens of the trademark, as actually used, as may be required by the Commissioner of Patents. Second, by paying into the Treasury of the United States the sum of $10, and otherwise complying with the requirements of this act and such regulations as may be prescribed by the Commissioner of Patents.

"The application prescribed in the foregoing section, in order to create any right whatever in favor of the party filing it, must be accompanied by a written declaration verified by the applicant, or by a member of the firm or an officer of the corporation or association applying, to the effect that the applicant believes himself or the firm, corporation, or association in whose behalf he makes the application to be the owner of the trademark sought to be registered, and that no other person, firm, corporation, or association, to the best of the applicant's knowledge and belief, has the right to use such trademark in the United States, either in the identical form or in such near resemblance thereto as might be calculated to deceive; that such trademark is used in commerce among the several states, or with foreign nations, or with Indian tribes, and that the description and drawing presented truly represent the trademark sought to be registered. If the applicant resides or is located in a foreign country, the statement required shall, in addition to the foregoing, set forth that the trademark has been registered by the applicant, or that an application for the registration thereof has been filed by him in the foreign country in which he resides or is located, and shall give the date of such registration, or the application therefor, as the case may be, except that in the application in such cases it shall not be necessary to state that the mark has been used in commerce with the United States or among the states thereof. The verification required by this section may be made before any person within the United States authorized by law to administer oaths, or, when the applicant resides in a foreign country, before any minister, charge d'affaires, consul, or commercial agent holding commission under the government of the United States, or before any notary public, judge, or magistrate having an official seal and authorized to administer oaths in the foreign country in which the applicant may be, whose authority shall be proved by a certificate of a diplomatic or consular officer of the United States."

"No trademark will be registered which consists of or comprises immoral or scandalous matter, or which consists of or comprises the flag or coat of arms or other insignia of the United States, or any simulation thereof, or of any state or municipality, or of any foreign nation, or which consists of or comprises any design or picture that has been adopted by any fraternal society as its emblem, or of any name, distinguishing mark, character, emblem, colors, flag, or banner adopted by any institution, organization, club, or society which was incorporated in any state in the United States prior to the date of the adoption and use by the applicant: provided, that said name, distinguishing mark, character, emblem, colors, flag, or banner was adopted and publicly used by said institution, organization, club, or society prior to the date of adoption and use by the applicant; unless it shall be shown to the satisfaction of the Commissioner of Patents that the mark was adopted and used as a trademark by the applicant or applicant's predecessors, from whom title is derived, at a date prior to the date of its adoption by such fraternal society as its emblem, or which trademark is identical with a registered or known trademark

MINNEAPOLIS MILLING DISTRICT WRECKED BY EXPLOSION

May *1931*

NOTABLE TRADE EVENTS

GREAT flour mill fire and explosion in Minneapolis; 20 killed; loss, $1,500,000. 1878.

Future trading in wheat stopped on American grain exchanges. 1917.

Wheat reached $3.25 bushel and flour $14 barrel in New York City. 1917.

Underwood tariff bill passed by the House of Representatives. 1918.

Bills before Illinois legislature to restrict trading on the Chicago Board of Trade defeated. 1921.

Southwestern Wheat Improvement Association organized. 1922.

Federal grain grades changed by order of Secretary of Agriculture Wallace. 1924.

Federal Trade Commission is restrained temporarily from holding hearings in its investigation of the alleged "millin' trust." 1926.

Silver Jubilee meeting of the Millers' National Federation held in Chicago. 1927.

Chamber of Commerce of the United States condemned by resolution the use of government funds for the purpose of participation in business in competition with established agencies and for the buying and selling of commodities for the purpose of attempted stabilization. 1930.

Farmers' National Grain Corporation, in organizing its grain handling machinery, bought the Hall-Baker Grain Co., Kansas City, initiating a policy of taking over established marketing facilities. 1930.

Millers' National Federation voted to enter into a trade practice conference with the Federal Trade Commission. 1930.

Day of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
Minneapolis Sun Rises H. M.	4 54	4 53	4 52	4 50	4 49	4 48	4 47	4 46	4 44	4 43	4 42	4 41	4 40	4 39	4 38	4 37	4 36	4 35	4 34	4 33	4 32	4 32	4 31	4 30	4 29	4 28	4 28	4 27	4 27	4 26	4 26
Mean Time Sun Sets H. M.	7 0	7 1	7 2	7 3	7 4	7 5	7 6	7 8	7 9	7 10	7 11	7 12	7 13	7 14	7 15	7 16	7 17	7 18	7 19	7 20	7 21	7 22	7 23	7 24	7 25	7 26	7 26	7 27	7 28	7 29	7 30

owned and in use by another, and appropriated to merchandise of the same descriptive properties, or which so nearly resembles a registered or known trademark owned and in use by another, and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the minds of the public, or to deceive purchasers; no portrait of a living individual will be registered as a trademark, except by the consent of such individual evidenced by an instrument in writing; and no trademark will be registered which is used in unlawful business, or upon any article injurious in itself, or which has been used with the design of deceiving the public in the purchase of merchandise, or which has been abandoned."

"A certificate of registration shall remain in force for 20 years, except that in the case of trademarks previously registered in a foreign country, such certificates shall cease to be in force on the day on which the trademark ceases to be protected in such foreign country, and shall in no case remain in force more than 20 years, unless renewed. Certificates of registration may be, from time to time, renewed for like periods on payments of the renewal fees required by this act, upon request by the registrant, his legal representatives or transferees of record in the Patent Office, and such request may be made at any time not more than six months prior to the expiration of the period for which the certificates of registration were issued or renewed. Certificates of registration in force at the date at which this act takes effect shall remain in force for the period for which they were issued, but shall be renewable on the same conditions and for the same periods as certificates issued under the provisions of this act, and when so renewed shall have the same force and effect as certificates issued under this act.

"The registration of a trademark under the provision of this act shall be prima facie evidence of ownership. Any person who shall, without the consent of the owner thereof, reproduce, counterfeit, copy, or colorably imitate any such trademark and affix the same to merchandise of substantially the same descriptive properties as those set forth in the registration, or to labels, signs, prints, packages, wrappers, or receptacles intended to be used upon or in connection with the sale of merchandise of substantially the same descriptive properties as those set forth in such registration, and shall use, or shall have used, such reproduction, counterfeit, copy, or colorable imitation in commerce among the several states, or with a foreign nation, or with the Indian tribes, shall be liable to an action for damages therefor at the suit of the owner thereof; and whenever in any such action a verdict is rendered for the plaintiff, the court may enter judgment therein for any sum above the amount found by the verdict as the actual damages, according to the circumstances of the case, not exceeding three times the amount of such verdict, together with the costs."

A fee of $15 is required by law to be paid with each application for the registration of a trademark, and for its renewal, and this fee will include the certificate of registration, if the trademark be determined to be registrable.

"Line Elevator Company"

The term, "line elevator company," as used in the Northwest, signifies a company which operates a greater or less number of elevators situated at numerous points along the different railroads in the interior of the Northwest. Briefly, it means a company, with headquarters usually at Minneapolis, which operates a number of interior elevators.

COMPARATIVE FEED VALUES

A comparison of the value of wheat feeds with other feeds, from "Feeds and Feeding," by Henry and Morrison:

Kind of feed—	Average analysis: Protein	Fat	Nitrogen free extract: Fiber	Nitrogen free extract: extract	Average digestibility: Protein	Fat	Nitrogen free extract
Wheat bran	16.0	4.4	9.5	53.7	78.0	68.0	72.0
Wheat mixed feed*	16.8	4.6	7.6	55.7	77.0	87.0	76.0
Wheat middlings	17.4	4.9	6.0	56.8	88.0	86.0	88.0
Average	16.73	4.63	7.7	55.4	81.0	80.3	78.6
No. 1 alfalfa meal	14.9	2.3	28.3	37.3	71.0	38.0	72.0
No. 2 mixed corn, ground	10.1	5.0	2.0	70.9	74.0	93.0	94.0
No. 2 white oats, ground	12.4	4.4	10.9	59.6	78.0	87.0	81.0
White hominy feed	10.6	8.0	4.4	64.3	66.0	91.0	90.0
No. 2 timothy hay	6.2	2.5	29.9	45.0	48.0	50.0	62.0
Cottonseed meal, prime	39.8	8.3	10.1	27.4	84.0	95.0	75.0
Average	12.3	5.1	14.3	50.8	70.1	75.7	79.0

WHAT $1 WILL BUY IN DIGESTIBLE FOOD†

	Price per ton, bulk, St. Louis	Digestible food, lbs: Protein	Fat	Nitrogen free extract
Wheat bran	$23.00	10.9	2.6	33.6
Wheat mixed feed*	26.50	9.8	3.0	31.9
Wheat middlings	29.00	10.5	2.9	34.5
Average	$26.33	10.4	2.8	33.3
No. 1 alfalfa meal	$26.00	8.1	0.7	20.7
No. 2 mixed corn, ground	43.40	3.4	2.1	30.6
No. 2 white oats, ground	32.00	6.0	2.4	30.2
White hominy feed	40.50	3.5	3.6	28.6
No. 2 timothy hay	20.00	3.0	1.3	27.2
Cottonseed meal, prime	40.35	16.5	3.3	10.2
Average	$33.71	6.8	2.3	24.7

*Mixed wheat feed or shipstuff is a mixture of the products other than the flour obtained from the milling of the wheat berry, combined in the proportions obtained in the usual process of commercial milling. In other words, it is the mill-run mixture of the bran and middlings or shorts, to which red dog flour may or may not have been added.

Mixed wheat feed forms a combination which can be fed to animals of almost every class with safety and good results, for it is rich in digestible protein and fat and contains an abundance of minerals, except calcium; the laxative properties of the bran are reduced by the presence of middlings and shorts.

†The figures, of course, will vary according to the price per ton at St. Louis.

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Table of average analyses, coefficients of digestibility and relative values of important feedstuffs as calculated by various methods, prepared by C. H. Briggs, of the Howard Wheat & Flour Testing Laboratory, Minneapolis:

Name of feed—	No. of analyses	Protein	Fat	Nitrogen-free extract	Crude fiber	Digestible: Protein	Fat	Carbohydrates
Bran, per ton	88	15.4	4.0	53.9	9.0	11.9	2.5	42.0
Shorts, per ton	94	16.9	5.1	56.2	6.2	13.0	4.5	45.7
Oil meal, old process, ton	131	33.9	7.8	35.7	7.3	30.2	6.9	32.0
Corn, per bu (56 lbs)	..	10.0	4.5	71.7	1.7	7.9	4.3	67.0
Barley, per bu (48 lbs)	22	12.0	1.8	69.7	4.2	8.4	1.6	65.3
Oats, per bu (32 lbs)	126	11.4	4.8	59.4	10.8	8.8	4.3	49.2
Red clover, per ton	34	12.3	3.3	38.1	24.8	7.1	1.8	37.8
Timothy, per ton	68	5.5	2.6	45.0	29.0	2.8	1.4	43.0
Alfalfa, per ton	93	14.6	2.1	37.4	28.3	11.7	1.0	41.0
Corn silage, per ton	99	1.7	.8	11.0	6.0	1.3	.2	14.0
Green fodder corn, per ton	126	1.8	.5	12.2	5.0	1.0	.4	11.9
Dried fodder corn, per ton	35	4.5	1.6	34.7	14.3	2.5	1.2	34.6
Corn stover, per ton	60	3.6	1.1	31.6	19.7	1.4	.7	31.2

	Fuel value (exact)	Method: Florida	"Eastern Chemist"	Haecker	Kellner	Briggs	Briggs No. 2
Bran, per ton	$40.00	$40.00	$40.00	$40.00	$40.00	$40.00	$40.00
Shorts, per ton	43.70	42.14	42.34	45.24	43.88	44.92	45.80
Oil meal, old process, ton	46.18	52.87	50.48	70.46	45.42	56.79	68.11
Corn, per bu (56 lbs)	1.16	1.10	1.15	1.26	1.35	1.27	1.13
Barley, per bu (48 lbs)	.96	.92	.96	1.05	1.05	1.02	.85
Oats, per bu (32 lbs)	.66	.63	.64	.58	.66	.61	.61
Red clover, per ton	37.42	36.58	34.77	17.76	26.40	22.39	26.66
Timothy, per ton	37.54	34.11	32.82	14.45	24.83	18.94	17.49
Alfalfa, per ton	39.05	35.80	36.32	22.08	24.98	21.61	25.32
Corn silage, per ton	9.04	8.35	9.12	5.86	6.65	4.82	5.32
Green fodder corn, per ton	8.92	8.24	8.14	*12.02	7.12	5.54	5.25
Dried fodder corn, per ton	26.28	23.03	22.83	.....	20.14	15.26	14.60
Corn stover, per ton	26.30	22.78	21.97	23.00	16.51	10.30	10.36

*Estimate doubtless made on basis of half the weight as ear corn.

DEFINITIONS OF FEEDINGSTUFFS

The following definitions have been approved by the Association of American Feed Control Officials:

Meal is the clean, sound, ground product of the entire grain, cereal or seed which it purports to represent.

Chop is a ground or chopped feed composed of one or more different cereals or byproducts thereof. If it bears a name descriptive of the kind of cereals, it must be made exclusively of the entire grains of those cereals.

Head Chops consists of the entire head of the grain sorghums, chopped, and should bear the name of the sorghum from which it is made. This includes, among others, Kafir head chops, milo head chops, feterita head chops, and sorghum head chops.

Head Stems consists of the head of the grain sorghums, from which the grain has been removed, and should bear the name of the sorghum from which it is made.

Ear Corn Chops is corn and cob, chopped, without the husk, with not a greater proportion of cob than occurs in the ear corn in its natural state.

ALFALFA PRODUCTS

Alfalfa Leaf Meal is the product, consisting chiefly of leafy materials separated from alfalfa hay. It must be reasonably free from other crop plants and weeds, and must not contain more than 18 per cent of crude fiber.

Alfalfa Meal is the product obtained from the grinding of the entire alfalfa hay, without the addition of any alfalfa stems, alfalfa straw or foreign material or the abstraction of leaves. It must be reasonably free from other crop plants and weeds, and must not contain more than 33 per cent of crude fiber.

Alfalfa Stem Meal is the ground product remaining after the removal of the leafy materials from alfalfa hay or meal. It must be reasonably free from other crop plants and weeds.

Chopped Alfalfa is the entire alfalfa hay, chopped, and not ground finely enough to become a meal. It must not contain an admixture of alfalfa straw or other foreign material.

ANIMAL BYPRODUCTS

Blood Flour is dried blood, prepared by special processes and reduced to a fine powder.

Blood Meal is ground, dried blood.

Digester Tankage, Meat Meal Tankage or Feeding Tankage is the residue from animal tissues, exclusive of horn, hoof, manure and stomach contents, except in such traces as might occur unavoidably in good factory practice, especially prepared for feeding purposes by tanking under live steam or by dry rendering or a mixture of the products made suitable by drying and grinding. When these products contain more than 10 per cent phosphoric acid P_2O_5, they shall be designated as Digester Tankage with Bone, Meat and Bone Meal Digester Tankage, Meat and Bone Meal Tankage or Feeding Tankage with Bone. If they bear a name descriptive of their kind, composition or origin, they must correspond thereto.

Meat Scraps is a dry ground residue from animal tissues exclusive of hoof, horn, manure and stomach contents, except in such cases as might occur unavoidably in good factory practice. When this product contains more than 10 per cent phosphoric acid P_2O_5 it shall be designated as Meat and Bone Scrap. If they bear a name descriptive of their kind, composition or origin they must correspond thereto.

Raw Bone Meal is the dried, ground product suitable for animal feeding, obtained by cooking in water at atmospheric pressure, undecomposed bone, just enough to remove excess fat and meat. It must not contain less than 23 per cent of protein.

Special Steamed Bone Meal is the dried, ground product suitable for animal feeding obtained by cooking dried bone after the removal of grease and meat fiber with steam under pressure in the process of obtaining gelatine or glue.

Steamed Bone Meal is the dried ground product suitable for animal feeding obtained by cooking bones with steam under pressure.

APPLE PRODUCTS

Dried Apple Pectin Pulp is the sound, dried residue obtained by the removal of pectin from apple products.

Dried Apple Pomace is the sound, dried residue obtained by the removal of cider from apples.

BARLEY PRODUCTS

Barley Feed is the entire byproduct resulting from the manufacture of pearl barley from clean barley.

Barley Hulls are the outer coverings of the barley.

Barley Mixed Feed is the entire offal from the milling of barley flour from clean barley, and is composed of barley hulls and barley middlings.

Ground Barley is the entire product obtained by grinding clean, sound barley, containing not less than 90 per cent pure barley and not more than 10 per cent of other grains, weed seeds and other foreign material, and not more than 6 per cent fiber; provided, that no portion of this stated 10 per cent of other grains, weed seeds or other foreign material shall be deliberately added.

Mixed Feed Barley is the entire product obtained by grinding country run barley containing not less than 75 per cent pure barley and not more than 25 per cent of other grains, weed seeds and other foreign material; provided, that no portion of this stated 25 per cent of other grains, weed seeds or foreign material shall be deliberately added. The ingredients must be stated as barley, other grains, weed seeds and foreign material.

BREWERS' AND DISTILLERS' PRODUCTS

Brewers' Dried Grains are the properly dried residue from cereals obtained in the manufacture of beer.

Distillers' Corn and Rye Solubles, a byproduct from the manufacture of alcohol from corn and rye, is a mash liquor concentrated after the removal of the alcohol and wet grains.

Distillers' Corn Solubles, a byproduct from the manufacture of alcohol from corn, is a mash liquor concentrated after the removal of the alcohol and wet grains.

Distillers' Dried Grains are the dried residue from cereals obtained in the manufacture of alcohol and distilled liquors. The product shall bear the designation indicating the cereal predominating.

Distillers' Rye Solubles, a byproduct from the manufacture of alcohol from rye, is a mash liquor concentrated after the removal of the alcohol and wet grains.

Malt Sprouts are the sprouts of the barley grain obtained in the malting process. Sprouts derived from any other malted cereal must be designated by the name of that cereal.

Yeast or Vinegar Dried Grains are the properly dried residue from the mixture of cereals, malt and malt sprouts (sometimes cottonseed meal) obtained in the manufacture of yeast or vinegar, and consist of corn or corn and rye from which most of the starch has been extracted, together with malt added during the manufacturing process to change the starch to sugars, and malt sprouts (sometimes cottonseed meal) added during the manufacturing process to aid in filtering the residue from the wort and serve as a source of food supply for the yeast.

BUCKWHEAT PRODUCTS

Buckwheat Shorts or Buckwheat Middlings are that portion of the buckwheat grain immediately inside of the hull after separation from the flour.

CORN PRODUCTS

Corn Bran is the outer coating of the corn kernel.

Corn Feed Meal is the byproduct obtained in the manufacture of cracked corn, with or without aspiration products added to the siftings. This name is also correctly applied to the byproducts obtained in the manufacture of table meal from the whole grain by the nondegerming process.

Corn Germ Cake consists of corn germ with other parts of the corn kernel from which part of the oil has been pressed, and is the product obtained in the dry milling process of manufacture of corn meal, corn grits, hominy feed and other corn products.

Corn Germ Meal is ground corn germ cake.

Corn Gluten Feed is that portion of commercial shelled corn that remains after the separation of the larger part of the starch and the germs by the processes employed in the manufacture of corn starch and glucose. It may or may not contain corn solubles.

Corn Gluten Meal is that part of commercial shelled corn that remains after the separation of the larger part of the starch, the germ and the bran, by the processes employed in the manufacture of corn starch and glucose. It may or may not contain corn solubles.

Corn Oil Cake consists of the corn germ from which part of the oil has been pressed, and is the product obtained in the wet milling process of manufacture of corn starch, corn sirup and other corn products.

Corn Oil Meal is ground corn oil cake.

Grits are the hard, flinty portions of Indian corn containing no bran or germ.

Yellow Hominy Feed, Yellow Hominy Meal or Yellow Hominy Chop is a kiln-dried mixture of the mill-run bran coating, the mill-run germ, with or without a partial extraction of the oil and a part of the starchy portion of the yellow corn kernel obtained in the manufacture of yellow hominy grits and yellow corn meal by the degerming process.

Maltose Process Corn Gluten Feed is the dried residue from degermed corn, after removal of starch in the manufacture of malt sirup.

Hominy Feed, Hominy Meal, or Hominy Chop is the kiln-dried mixture of the mill-run bran coating, the mill-run germ, with or without a partial extraction of the oil and a part of the starchy portion of the white corn kernel obtained in the manufacture of hominy, hominy grits and corn meal by the degerming process.

COTTONSEED PRODUCTS

Cottonseed Feed is a mixture of cottonseed meal and cottonseed hulls containing less than 36 per cent protein.

Cottonseed Meal is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil, provided that nothing shall be recognized as cottonseed meal that does not conform to the foregoing definition and that does not contain at least 36 per cent protein. Cottonseed meal shall be graded and classed as follows:

1. Cottonseed Meal, Prime Quality, must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, yellowish, not brown or reddish, free from excessive lint, and shall contain not less than 36 per cent protein. It shall be designated and sold according to its protein content. Cottonseed meal with 36 per cent of protein shall be termed "36 Per Cent Protein Cottonseed Meal, Prime Quality," and higher grades similarly designated (as "43 per cent Protein Cottonseed Meal, Prime Quality").

2. Cottonseed Meal, Off Quality. Cottonseed meal not fulfilling the above requirements as to color, odor and texture, shall be graded "36 Per Cent Protein Cottonseed Meal, Off Quality," and higher grades similarly designated.

Cold Pressed Cottonseed is the product obtained from the subjection of the whole undecorticated cottonseed to the cold pressure process for the extraction of oil, and includes the entire cottonseed, less the oil extracted.

Ground Cold Pressed Cottonseed is the product obtained by grinding cold pressed cottonseed.

LINSEED AND FLAX PRODUCTS

Linseed Cake or Meal is oil cake or meal made from flaxseed, provided that the final product shall contain less than 8 per cent of weed seeds and other foreign materials; and provided, further, that no portion of the stated 8 per cent of weed seeds and other foreign materials shall be deliberately added.

Oil Cake is the product obtained after the extraction of part of the oil by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents from seeds which have been screened and cleaned of weed seeds and other foreign materials by the most improved commercial process. When used alone the term "Oil Cake" shall be understood to designate linseed cake as defined. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to the words "Oil Cake."

Oil Meal or Ground Oil Cake is oil cake ground to a meal.

Old Process Oil Meal, Old Process Linseed Meal is oil meal as defined or linseed meal as defined, produced by crushing, cooking and hydraulic pressure.

New Process Oil Meal, New Process Linseed Meal is oil meal as defined or linseed meal as defined, produced by crushing, heating and the use of solvents.

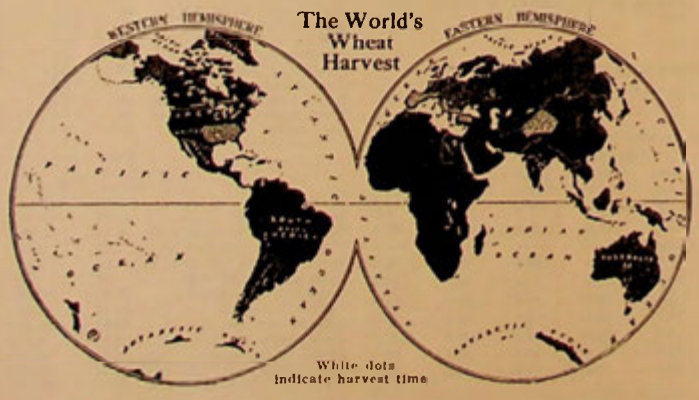
Flax Plant Byproduct is that portion of the flax plant remaining after the separation of the seed, the bast fiber and a portion of the shives, and consists of flax shives, flax pods, broken and immature flax seeds, and the cortical tissues of the stem.

Ground Flaxseed or Flaxseed Meal is the product obtained by grinding flaxseed which has been screened and cleaned of weed seeds and other foreign materials by the most improved commercial process, provided that the final product shall contain less than 4 per cent of weed seeds and other foreign materials, and provided, further, that no portion of the stated 4 per cent of weed seeds and other foreign materials shall be deliberately added.

Ground Unscreened Flaxseed Oil Feed is the ground unscreened flaxseed oil feed cake.

Unscreened Flaxseed Oil Feed Cake is the product obtained by extraction of part of the oil from unscreened flaxseed by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents. The ingredients shall be stated as partially extracted flaxseed and foreign seeds (wheat, wild buckwheat, pigeon grass, wild mustard etc.).

Screenings Oil Feed is the ground product obtained after extraction of part of the oil by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents, from the smaller imperfect grains, weed seeds and other foreign materials, having feeding value, separated in cleaning the grain. The name of the grain from which the screenings are separated shall be prefixed to "screenings oil feed."



MARINE PRODUCTS

Fish Meal is the clean, dried, ground tissues of undecomposed whole fish and/or fish cuttings with or without the extraction of part of the oil.

Fish Residue Meal is the clean, undecomposed residue from the manufacture of glue from nonoily fish.

Crab Meal is composed of the undecomposed waste of the crab industry and contains the shell, viscera and part or all of the flesh. It shall contain at least 25 per cent protein.

Shrimp Meal is prepared from the undecomposed waste of the shrimp industry and contains the head, hull and/or the whole shrimp.

MILK PRODUCTS

Evaporated Buttermilk Feed, Concentrated Buttermilk Feed, Condensed Buttermilk Feed, is the product resulting from the removal of a considerable portion of water from clean, sound buttermilk derived from natural cream to which no foreign substances have been added excepting such as are permitted and necessary in the manufacture of butter. It contains, all tolerances being allowed for, not less than 27 per cent of total solids, not less than 2 per cent of butterfat, and not more than .14 per cent ash for each per cent of solids. This definition does not prohibit the use of a distinctive trade name, provided it is followed by one of the names given.

Condensed Skimmed Milk (Feeding) is the product resulting from the removal of a considerable portion of water from clean, sound skimmed milk. It contains not less than 27 per cent total solids.

Dry Skimmed Milk (Feeding) is the product resulting from the removal of water from clean, sound skimmed milk. It contains not more than 8 per cent moisture.

OAT PRODUCTS

Oat Groats are the kernels of the oat.

Oat Hulls are the outer coverings of the oat.

Oat Middlings are the floury portions of the oat groat obtained in the milling of rolled oats.

Oat Shorts are the covering of the oat grain lying immediately inside the hull, being a fuzzy material carrying with it considerable portions of the fine floury part of the groat obtained in the milling of rolled oats.

Clipped Oat Byproduct is the byproduct obtained in the manufacture of clipped oats. It may contain the light, chaffy material broken from the end of the hulls, empty hulls, light, immature oats and dust. It must not contain an excessive amount of oat hulls.

PEANUT PRODUCTS

Peanut Oil Cake is the residue after the extraction of part of the oil by pressure or solvents from peanut kernels.

Peanut Oil Meal is ground peanut oil cake.

Unhulled Peanut Oil Feed is the ground residue obtained after extraction of part of the oil from whole peanuts, and the ingredients shall be designated as **Peanut Meal and Hulls.**

RICE PRODUCTS

Rice Bran is the pericarp or bran layer of the rice, with only such quantity of hull fragments as is unavoidable in the regular milling of rice.

Rice Huller Bran is a product secured by the huller and comes from brown rice and consists mostly of bran and germs.

Rice Hulls are the outer coverings of the rice.

Rice Meal is ground brown rice or ground rice after the hull has been removed.

Rice Polish is the finely powdered material obtained in polishing the kernel.

Rice Stone Bran is the siftings from the material secured in removing hulls from rice, and contains rice germs, broken rice and some rice hulls.

Ground Rough Rice is ground rice from which the hull has not been removed or ground paddy rice.

RYE PRODUCTS

Rye Bran is the coarse outer covering of the rye kernel as separated from the cleaned and scoured rye.

Rye Feed, a byproduct obtained in the usual process of the milling of rye flour from cleaned and scoured rye grain, consists principally of the mill-run of the outer covering of the rye grain and the germ, with small quantities of flour and aleurone.

Rye Flour Middlings consist of the rye feed, rye red dog and pure dark rye flour combined in the proportions obtained in the milling of rye flour, and shall not contain more than 5 per cent crude fiber.

Rye Low Grade Feed Flour consists principally of dark rye flour and small quantities of aleurone and fine bran particles, and shall not contain more than 1.5 per cent crude fiber.

Rye Middlings consist of the rye feed and the rye red dog combined in the proportions obtained in the usual process of milling rye flour.

Rye Red Dog, a byproduct obtained in the usual process of the milling of rye flour, consists principally of aleurone with small quantities of flour and fine bran particles, and shall not contain more than 3.5 per cent crude fiber.

VELVET BEAN PRODUCTS

Velvet Bean Meal is ground velvet beans containing only an unavoidable trace of hulls or pods.

Ground Velvet Bean and Pod is the product derived by grinding velvet beans "in the pod." It contains no additional pods or other material.

WHEAT PRODUCTS

Wheat Bran is the coarse outer covering of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling.

Standard Middlings consist mostly of fine particles of bran, germ and very little of the fibrous offal obtained from the "tail of the mill." This product must be obtained

June **1929** *1931*

PRESIDENT HOOVER SIGNED AGRICULTURAL MARKETING ACT

NOTABLE TRADE EVENTS

THE Northwestern Miller founded. 1873.

Two hundred-pound barrel established by New York Produce Exchange. 1879.

National Order of Operative Millers organized. 1892.

Lieter wheat deal collapsed, primarily as a result of fact that P. D. Armour in the previous December employed ice breakers to bring Great Lakes steamers from Duluth with wheat. 1898.

Last meeting of Millers' National Association. 1902.

First convention Millers' National Federation, Detroit. 1903.

National Federated Flour Clubs organized. 1919.

Resumption of grain trading without government control. 1920.

Pillsbury Flour Mills Co. arranged purchase of the assets of the Pillsbury-Washburn Flour Mills Co., Ltd. 1923.

Sydney Anderson, congressman from Minnesota, elected president of the Millers' National Federation. 1924.

McNary-Haugen bill defeated in House of Representatives by a vote of 224 to 154. 1924.

The Norwegian government decided to reintroduce the government purchasing monopoly on flour and grain. 1928.

The Washburn Crosby Co. and subsidiaries and the Red Star Milling Co. combined to form General Mills, Inc., with a capitalization of $50,000,000. 1928.

Trading in millfeed futures begun on St. Louis Merchants' Exchange. 1929.

The Agricultural Marketing Act, establishing a board of nine members and authorizing the appropriation of $500,000,000 to promote the effective merchandising of agricultural commodities, becomes a law. 1929.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day of the Week		M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T
Minneapolis Mean Time	Sun Rises H. M.	4 25	4 25	4 24	4 24	4 24	4 23	4 23	4 23	4 23	4 22	4 22	4 22	4 22	4 22	4 22	4 22	4 22	4 23	4 23	4 23	4 23	4 23	4 24	4 24	4 24	4 25	4 25	4 25	4 26	4 26
	Sun Sets H. M.	7 30	7 31	7 32	7 32	7 33	7 34	7 34	7 35	7 36	7 36	7 37	7 37	7 38	7 38	7 38	7 39	7 39	7 39	7 40	7 40	7 40	7 40	7 40	7 40	7 40	7 40	7 40	7 40	7 40	7 40

in the usual commercial process of milling, and shall not contain more than 9.5 per cent crude fiber.

Flour Middlings shall consist of standard middlings and red dog flour combined in the proportions obtained in the usual process of milling, and shall not contain more than 6 per cent crude fiber.

Gray Shorts (Gray Middlings or Total Shorts) consist of the fine particles of the outer bran, the inner or bee-wing bran, the germ, and the offal or fibrous materials obtained from the "tail of the mill." This product must be obtained in the usual process of commercial milling, and shall not contain more than 6 per cent crude fiber.

Brown Shorts (Red Shorts) consist mostly of the fine particles of bran, germ and very little of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual commercial process of milling and shall not contain more than 7.5 per cent crude fiber.

Wheat Bran and Standard Middlings consist of the two commodities as defined above, mixed in the proportions obtained in the usual process of commercial milling.

Wheat Low Grade Feed Flour, a byproduct obtained in the usual commercial process of flour milling, consists principally of flour with small quantities of aleurone and fine bran particles, and shall not contain more than 1.5 per cent crude fiber.

Wheat Mixed Feed (Mill-Run Wheat Feed) consists of pure wheat bran and the gray or total shorts combined in the proportions obtained in the usual process of commercial milling. This product shall not contain more than 8.5 per cent crude fiber.

Wheat Red Dog, a byproduct obtained in the usual commercial process of flour milling, consists principally of aleurone with small quantities of flour and fine bran particles and shall not contain more than 4 per cent crude fiber.

White Shorts or **White Middlings** consist of a small portion of the fine bran particles and the germ and a large portion of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual process of flour milling, and shall not contain more than 3.5 per cent crude fiber.

Hard Wheat Mixed Feed (Mill-run Wheat Feed) consists of pure wheat bran and flour middlings combined in the proportions obtained in the usual process of commercial milling. This product shall not contain more than 9.5 per cent crude fiber.

Scourings consist of such portions of the cuticle, brush, white caps, dust, smut, and other materials as are separated from the grain in the usual commercial process of scouring.

Screenings consist of the smaller imperfect grains, weed seeds and other foreign materials, having feeding value, separated in cleaning the grain.

NOTE.—If to any of the wheat or rye byproduct feeds there should be added screenings, or scourings, as above defined, either ground or unground, bolted or unbolted, such brand shall be so registered, labeled and sold as clearly to indicate this fact. The word "Screenings" or "Scourings," as the case may be, shall appear as a part of the name or brand, and shall be printed in the same size and face of type as the remainder of the brand name. When the word "Screenings" appears it is not necessary to show also on the labeling the word "Scourings."

MINERAL FEEDS

Mineral Feeds: Mixed feed containing both feed and more than 5 per cent of mineral ingredients requires, in addition to the usual declaration of the chemical feed analysis, a declaration of each ingredient contained therein and the minimum percentages of lime (CaO), phosphoric acid (P2O5), iodine (I), and the maximum percentage of salt (NaCl), if same is added. If minerals predominate in the mixture, the usual declaration of chemical feed analysis, with the exception of protein, may be omitted. Mineral feeds containing no organic ingredient do not require the usual chemical feed guaranty, but do require a declaration of each ingredient contained therein and the minimum percentage of lime (CaO), phosphoric acid (P2O5), iodine (I), and the maximum percentage of salt (NaCl) if same are present.

That the mineral ingredients be stated in the common English terms, if any such terms exist.

It being impossible to classify separately the drug ingredients and mineral ingredients, be it resolved:

(1) That all mixtures containing mineral ingredients generally regarded as dietary factors essential for the normal nutrition of animals and which are sold or represented for the primary purpose of supplying these minerals as additions to rations in which these same mineral factors may be deficient, be classified as mineral feeds.

(2) That all other preparations which are sold or represented primarily for the cure, mitigation or prevention of disease be classified by this association as drugs, medicines or specifics.

MISCELLANEOUS PRODUCTS

Dried Beet Pulp is the dried residue from sugar beets which have been cleaned and freed from crowns, leaves and sand, and which have been extracted in the process of manufacturing sugar.

Coconut Oil Meal, or "Copra Oil Meal," is the ground residue from the extraction of part of the oil from the dried meat of the coconut.

Ivory Nut Meal is the ground waste material resulting from the manufacture of buttons and similar articles from the vegetable ivory nut.

Processed Garbage is composed of animal and vegetable waste from garbage, collected sufficiently often that harmful decomposition has not set in, and is separated from material such as crockery, glass or similar material. Its odor must not be suggestive of the presence of decomposition, and it must contain less than 1 per cent of glass. None of it shall contain knifelike or needlelike particles, and provided further, that the maximum percentage of glass be stated on the label when present in excess of one fifth of 1 per cent.

Palm Kernel Oil Meal is the ground residue from the extraction of the part of the oil by pressure or solvents from the kernel of the fruit of Elaeis guineensis or Elaeis malanococco.

TENTATIVE DEFINITIONS

Whole Pressed Cottonseed, prime quality, is the product resulting from subjecting the whole, sound, mature, clean, undecorticated cottonseed to pressure for the extraction of oil, and includes the entire cottonseed, less the oil extracted and the lint removed. It shall be designated and sold according to its protein content.

Ground, Whole Pressed Cottonseed, prime quality, is the whole pressed cottonseed, ground. It shall be designated and sold according to its protein content.

Table Scrap Meal is the properly cooked, dried and ground residue resulting from freshly collected hotel and house garbage from which all metal, crockery, glass and other foreign material has been removed except in such traces as may unavoidably occur in good factory practice. The finished product shall not be suggestive of material decomposition in odor. It shall not contain any sharp, needle pointed pieces of glass and shall not contain more than one fifth of 1 per cent of finely ground glass or dull particles of glass.

MILK PRODUCTS

Condensed Soured Skimmed Milk (Cooling) is the product resulting from the removal of a considerable portion of water from the clean, sound, skimmed milk which has been soured by a suitable culture of lactic bacteria. It contains not less than 27 per cent total solids.

Dried Buttermilk Feed is the product resulting from the removal of water from clean, sound buttermilk derived from natural cream, to which no foreign substances have been added, excepting such as are necessary and permitted in the manufacture of butter. It contains not more than 5 per cent of moisture, not more than 12 per cent of mineral matter (ash), and not less than 6 per cent butter fat.

Milk Sugar Feed is the by-product from the manufacture of sugars containing at least 65 per cent lactose (milk sugar).

CORN PRODUCTS

Corn Chop, Ground Corn or Cracked Corn is the entire product made by grinding, cutting or chopping the grains of Indian corn, and may be fine, medium or coarse, and must be neither weevily, rancid nor musty, and shall not contain more than 4 per cent of foreign material.

Screened Corn Chop, Screened Ground Corn, or screened Cracked Corn is the coarse portion of corn chop, ground corn or cracked corn from which most of the fine particles have been removed, and must be cool, neither weevily, rancid nor musty, and shall not contain more than 4 per cent of foreign material.

Corn Meal (Grading) is finely ground, unbolted corn.

Corn Bran is the outer coating of the corn kernel, with little or no starchy part or germ, and must be cool, neither weevily, rancid nor musty.

Corn Feed Meal is the fine siftings obtained in the manufacture of screened corn chop, screened ground corn or screened cracked corn, with or without its aspiration products added, and must be cool, neither weevily, rancid nor musty.

Corn Grits, Hominy Grits are the fine or medium-sized, hard, flinty particles of Indian corn containing little or no bran or germ.

Corn Screenings are the small, light grains of corn, parts of grains of corn and like other cereals, and other materials having feeding value obtained by screening shelled corn, excluding wood, dirt and other similar inert materials.

OAT PRODUCTS

Oat Chop, Ground Oats, Pulverized Oats, Crushed Oats and Crimped Oats consist of the entire product made by grinding, chopping, cutting, crushing or crimping oats.

Oat Groats are the kernels produced from cleaned and dried oats in the process of hulling.

Hulled Oats, Unbrized Oat Groats are the kernels produced from the cleaned grain in the process of hulling oats.

Oatmeal, Ground Oat Groats is the product produced by cutting, crushing or grinding oat groats.

Rolled Oat Groats (Rolled Oats) is the product obtained in the process of rolling oat groats.

Oat Millfeed is the by-product produced in the manufacture of oat groats and consists of oat hulls, oat shorts and oat middlings.

DEFINITIONS ADOPTED FOR FUTURE DISCUSSION

Cod Liver Oil is the product obtained by extraction of part of the oil from cod livers. It shall be labeled Vitamin D Substandard Cod Liver Oil if its vitamin potency, when measured by the Association of Official Agricultural Chemists' tests, fail to produce the minimum calcification as accepted.

Hominy Meal is a mixture of corn bran, corn germ, with or without a partial extraction of the oil, and a part of the starchy portion of either yellow or white corn kernel, obtained in the manufacture of hominy, hominy grits or table meal, and shall contain at least 5 per cent of fat, and must be cool, neither weevilly, rancid nor musty.

Hominy Feed is a mixture of corn bran, corn germ, with a partial extraction of the oil, and a part of the starchy portion of either yellow or white corn kernel, obtained in the manufacture of hominy, hominy grits or table meal, and must be cool, neither weevilly, rancid nor musty.

Oat Flour is the bolted product produced by grinding oat groats.

Elevator Cleanings are the materials bro-

FEEDSTUFFS DEFINITIONS (Continued)

ing feeding value which are the residue from cleaning grain. They must not contain an excessive amount of dust.

The following chemical terms, with their corresponding common English names, are proposed:

Chemical terms—Common English name—

Calcium carbonate—Limestone, chalk, oyster shell.

Calcium carbonate, precipitated—Precipitated chalk.

Capsicum—Red pepper.

Copper sulphate—Blue vitriol.

Ferric oxide—Red oxide of iron.

Ferrous sulphate—Copperas.

Glucose—Corn sugar.

Lactose—Milk sugar.

Magnesium sulphate—Epsom salts.

Potassium bitartrate—Cream of tartar.

Potassium nitrate—Saltpeter.

Sodium bicarbonate—Baking soda.

Sodium chloride—Salt.

Sodium nitrate—Soda saltpeter.

Sodium sulphate—Glauber's salt.

Sulphur—Sulphur.

Dicalcium phosphate—Dicalcium phosphate.

Tricalcium phosphate—Bone ash.

Tricalcium phosphate and calcium carbonate—Phosphatic limestono.

Tricalcium phosphate (natural)—Rock phosphate.

Tricalcium phosphate and carbon—Bone black.

It is understood that the committee does not recommend the use of these ingredients in mixed feeds, but when used the common English name should be stated on applications for registration and on tags. It is further recommended that when an official definition has been adopted for an ingredient of mixed feed, said ingredient should be listed under the official name thereof.

RESOLUTIONS ADOPTED

Resolved, That it is the sense of this association that we understand the term "nitrogen free extract" to cover the product indicated by the percentage obtained by subtracting from 100 per cent the sum of the percentages of ash, moisture, protein, fat and fiber.

Resolved, That the term "carbohydrates" be interpreted to cover the product indicated by the percentage obtained by the addition of the percentages of crude fiber and nitrogen free extract.

Resolved, That it is the sense of this association that a ton of feed be 2,000 lbs. net.

Resolved, That this association go on record as opposing the use of second-hand bags unless they are turned wrong side out so that the original stenciling will not be displayed.

Resolved, That the association go on record to the effect that the term cracked corn does not apply to degerminated cracked corn.

Resolved, That this association go on record as condemning the practice of packing feedingstuffs in bags containing 99 lbs net and billing and charging for 100 lbs net.

Whereas, linseed oil meal is sold more or less on the basis of the protein content, as in the case of cottonseed meal, therefore, be it

Resolved, That the percentage of protein should be prefixed to linseed cake or meal, as is done with cottonseed meal, for example, 34 per cent protein linseed meal.

Resolved, That it is the sense of this association that no product sold under a trade or proprietary name be recognized for the purpose of formulating definitions, standards, etc.

Resolved, That this association go on record as condemning the use of the word vitamin in a brand name, and as opposing the acceptance of registration of feeds with this word in the brand name.

Resolved: (a) That it is the sense of this association that the names of feed materials or their combinations must not be misleading as to the kind, character and nature of the material or materials.

(b) That the name of each feed material should be stated in its simplest form and in the common English term, if such term exists, omitting all superfluous or ambiguous words.

(c) That if a descriptive name is used, the material must correspond thereto.

REGULATIONS FOR THE ENFORCEMENT OF THE FOOD AND DRUGS ACT

The Food and Drugs Act was approved on June 30, 1906, and became effective Jan. 15, 1907. It has been amended on Aug. 23, 1912, March 3, 1913, March 4, 1913, July 24, 1919, Jan. 18, 1927, and July 8, 1930. Following are some of the regulatory provisions of the Food and Drug Administration of the Department of Agriculture, for the enforcement of the law:

1. "The term 'food' includes articles used for confectionery. The provisions of the act relating to food, as well as to the specific provisions relating to confectionery, apply to confectionery."

2. "An article of food shall neither be covered with a powder nor reduced to a powder in such manner that damage or inferiority is concealed."

3. "A poisonous or other deleterious ingredient shall not be added to an article of food in such quantity as may by any possibility render the article injurious to health."

4. "A food to which a preservative is applied externally must bear on the covering or package directions for the effective removal of such preservatives."

5. "Only harmless colors and harmless preservatives may be used in articles of food. A color, preservative or other substance, even though harmless, shall not be used in the preparation of any article of food in a manner whereby damage or inferiority is concealed."

6. "The term 'label,' as used in the act, includes any legend and descriptive manner or design appearing upon the article or its container, and also includes circulars, pamphlets, and the like which are packed and go with the article to the purchaser. The label shall bear, plainly and conspicuously displayed, all the information specifically required by the act, e.g., the quantity of the contents of food in package form and such other descriptive matter as the character of the product may require. The label shall be free from any statement, design or device regarding the article or ingredients or substances contained therein, or quality thereof, or place of origin, which is false or misleading in any particular. A food product shall not be labeled or branded in such a manner as to deceive or mislead a purchaser."

7. "The name of the manufacturer or producer need not be given upon the label, but if given it must be the true name. The words 'Packed for .....' 'Distributed by .....' or some equivalent phrase shall be added to the label in case the name which appears upon the label is not that of the actual manufacturer or producer. The place of manufacture or production need not be given upon the label except where it is necessary to indicate clearly that the article is of domestic and not foreign origin. The place of manufacture, if given, must be correctly stated. When a firm actually manufactures food in two or more places, the actual place of manufacture of each particular package need not be stated on the label except when the mention of any place, to the exclusion of the others, deceives or misleads."

8. "A package of food shall be plainly and conspicuously marked with the quantity of the contents on the outside of the container. The quantity of the contents so marked shall be the quantity of food in the package. Statement of weight shall be in terms of the avoirdupois pound and ounce. The following tolerances and variations from the quantity of the contents marked on the package shall be allowed: (a) discrepancies due exclusively to errors in weighing, measuring or counting which occur in packing conducted in compliance with good commercial practice; (b) discrepancies in weight or measure due exclusively to differences in atmospheric conditions in various places and which unavoidably result from the ordinary and customary exposure of the packages to evaporation or to the absorption of water."

9. "An article of food intended for export is not adulterated or misbranded within the meaning of the act if it is established by the shipper that the article is packed according to the directions of the foreign purchaser and that no substance is used in its preparation which conflicts with the laws of the country to which it is intended to be shipped. An article intended for export in accordance with the above regulation should be labeled on the outside container so as to show that the article is intended for export and is prepared in accordance with the specifications of the foreign purchaser. This marking is required only on an article which otherwise might be classed as adulterated or misbranded."

Use of Flag in Trademarks

By an act of Congress approved Jan. 8, 1913, trademarks are refused registration if they "consist of or comprise the flag or coat-of-arms or other insignia of the United States, or any simulation thereof, or of any state or municipality, or of any foreign nation, or of any design or picture that has been or may hereafter be adopted by any fraternal society as its emblem, or of any name, distinguishing mark, character, emblem, color, flag, or banner adopted by any institution, organization, club, or society, which was incorporated in any state in the United States prior to the date of the adoption and use by the applicant."

United States—Antitrust Law

The following is the text of the Sherman law regarding combinations in restraint of trade:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled:

Section 1. Every contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade or commerce among the several states, or with foreign nations, is hereby declared to be illegal. Every person who shall make any such contract, or engage in any such combination or conspiracy, shall be deemed guilty of a misdemeanor, and, on conviction thereof, shall be punished by a fine not exceeding $5,000, or by imprisonment not exceeding one year, or by both said punishments in the discretion of the court.

Sec. 2. Every person who shall monopolize, or attempt to monopolize, or combine or conspire with any other person or persons to monopolize any part of the trade or commerce among the several states, or with foreign nations, shall be deemed guilty of a misdemeanor, and on conviction thereof shall be punished by a fine not exceeding $5,000, or by imprisonment not exceeding one year, or by both said punishments, in the discretion of the court.

Sec. 3. Every contract, combination in form of trust or otherwise, or conspiracy, in restraint of trade or commerce in any territory of the United States, or the District of Columbia, or in restraint of trade or commerce between any such territory and another, or between any such territory or territories and state or states, or the District of Columbia, or with foreign nations, or between the District of Columbia and any state or states or foreign nations, is hereby declared illegal. Every person who shall make any such contract, or engage in any such combination or conspiracy, shall be deemed guilty of a misdemeanor, and on conviction thereof shall be punished by a fine not exceeding $5,000, or by imprisonment not exceeding one year, or by both said punishments in the discretion of the court.

Sec. 4. The several circuit courts of the United States are hereby invested with jurisdiction to prevent and restrain violations of this act; and it shall be the duty of the several district attorneys of the United States, in their respective districts, under the direction of the attorney general, to institute proceedings in equity to prevent and restrain such violations. Such proceedings may be by way of petition setting forth the case and praying that such violation shall be enjoined or otherwise prohibited. When the parties complained of shall have been duly notified of such petition the court shall proceed, as soon as may be, to the hearing and determination of the case; and pending such petition and before final decree, the court may at any time make such temporary restraining order or prohibition as shall be deemed just in the premises.

Sec. 5. Whenever it shall appear to the court before which any proceeding under section 4 of this act may be pending that the ends of justice require that other parties should be brought before the court, the court may cause them to be summoned, whether they reside in the district in which the court is held or not, and subpoenas to that end may be served in any district by the marshal thereof.

Sec. 6. Any property owned under any contract or by any combination, or pursuant to any conspiracy (and being the subject thereof) mentioned in section 1 of this act, and being in the course of transportation from one state to another, or to a foreign country, shall be forfeited to the United States, and may be seized and condemned by like proceedings as those provided by law for the forfeiture, seizure and condemnation of property imported into the United States prior to law.

Sec. 7. Any person who shall be injured in his business or property by any other person or corporation by reason of anything forbidden or declared to be unlawful by this act may sue therefor in any circuit court of the United States in the district in which the defendant resides or is found, without respect to the amount in controversy, and shall recover threefold the damages by him sustained, and the costs of suit, including a reasonable attorney's fee.

Sec. 8. That the word "person" or "persons" wherever used in this act shall be deemed to include corporations and associations existing under or authorized by the laws of either the United States, the laws of any of the territories, the laws of any state or the laws of any foreign country.

Approved July 2, 1890.

The Millers' Code

Resolved, That in compliance with the program of the United States Department of Commerce for the elimination of waste in distribution and for the adoption of simplified business practices and uniformity of method and forms; to promote equality of competition and facility in interpreting such competition; to eliminate unsound, unbusiness-like and unethical practices; and to promote the highest standard of business ethics and conduct,—the Millers' National Federation has adopted and urges the adherence of its members to the following Code of Ethics and Business Practices:

1. We will strive to maintain the highest excellence in quality, merchandising service and business practice in order that we may have respect for our products and that others may respect them. We will deal honorably with our competitors, our customers and the public, and we will refrain from any action, method or practice which if indulged in by a competitor we would regard as unethical, unsound, or unbusinesslike.

2. Sales of flour should be made for delivery within not to exceed 60 days.

3. Prices of flour or other mill products shall not be guaranteed against decline.

4. Flour and other mill products shall not be consigned. (Consignment means delivery by shipper to customer, agent or broker for sale at a future time at an undetermined price.)

5. All carload sales should be made on sight draft or arrival draft terms.

6. All sales shall be subject to confirmation at home or duly authorized office of mill.

7. Millers' National Federation Package Differentials shall be strictly observed.

8. Charges shall be assessed and collected from the buyer in all cases where shipping directions are not received within contract time, at the rate of ½c per bbl per day for flour and 1c per ton per day for feed.

9. Millers' National Federation Uniform Sales Contract shall be used in all cases.

10. Millers shall not give rebates, premiums, donations, or subsidies in the merchandising of their products.

11. There shall be no so-called bargain day sales.

12. It is recommended that mills issue a fair list price and adhere strictly to it. Revision should be made only when there has been sufficient change in costs of production to justify it.

13. After prices have been advanced, no sale shall be accepted at previous prices.

14. It is recommended that sales prices reflect cost plus a profit based on the cost of replacement of raw material and a cost of operation and sales reflecting the normal average capacity actually operated by the industry, not exceeding 55 per cent.

15. It is recommended that reports of unethical and uncommercial practices of competitors be accepted with the utmost caution, and that no action be predicated thereon unless and until the authenticity of such reports is confirmed by inquiry from the competitor or competitors involved.

Interpretation of and adherence to this code by millers is within the conscience and good faith of each miller, but the Federation urges that the essence and value of this code lies in voluntary and universal adoption of and adherence to its principles at all times and under all circumstances.

Trade Terms

C.a.f.—Cost, assurance, freight.

C. & F.—Cost and freight.

"Cafe."—Same as c.a.f. The telegraph companies charge for three words when the letters "c.a.f." are used. Cafe being a dictionary word, the telegraph companies charge for it as only a single word.

C.i.f.—Cost, insurance and freight. It implies delivery to carrier in good order, but not delivery at destination.

C.i.f. & E.—Adds to c.i.f. the element of exchange.

F.a.q.—Fair, average quality. Importers often include this in their contracts when purchases are made without sealed samples, meaning that the product delivered must be up to the standard of a fair, average quality of the season's shipments, with due allowance for difference between old and new grain. The term is more common in the grain trade than in flour transactions.

F.a.s.—Free alongside.

F.o.r.—Free on rail.

F.p.a.—Free of particular average.

P.t.—Private terms—prices not disclosed.

Pp. or pr.pr.—When appearing in connection with the signature on a letter or other document, stand for "per procurator." This signifies that the signer has the procuration or power to so sign. Such power has to be officially given by the individual or firm for which the signature is made. This abbreviation is used chiefly by importers.

S.p.a.—Subject to particular average.

W.p.a.—With particular average.

Boatloads.—Refers to canal boats, which average about 8,000 bus grain. The announcement of 12 loads taken for export is equal to 96,000 bus.

Split Transactions.—A trade made in grain at a double price—for instance, 10,000 bus at 78¾@78¾c means 5,000 bus at 78¾c and 5,000 bus at 78¾c.

Five Atlantic Ports.—When this term is used, it means Boston, New York, Philadelphia, Baltimore and Newport News.

F.o.b.—On this term the Millers' National Association says: If used in connection with "lighterage free," the literal meaning is guaranteed delivery in good order on wharf (or in warehouse) or on steamer, as each sale may indicate. As for instance, "f.o.b. New York," or "f.o.b. steamer at New York." If shipments are not available to the steamer when called for in accordance with ocean freight contract, the steamer may charge and collect demurrage (value of steamer's time while waiting for delivery, if delay occurs).

July

1931

IMPORTANT IN THE DEVELOPMENT OF EXPORT FLOUR TRADE WAS A TRIP WHICH WILLIAM HOOD DUNWOODY MADE TO EUROPE

NOTABLE TRADE EVENTS

THE United States Millers' Committee, formed by Herbert Hoover, food administrator, to formulate plans for the voluntary regulation of the industry, addressed its first proclamation to millers. The committee subsequently became the milling division of the food administration. 1917.

In order to meet a new program of government food control, the formation of the cereal division of the Food Administration was announced. This division took over the work of the United States Grain Corporation as it related to regulation of cereals, and a milling section of the cereal division was formed. The members of the milling division of the administration, consequently, resigned. 1918.

President Wilson issued proclamation placing complete control of flour and wheat export and import, and of milling and baking, in hands of Julius H. Barnes. 1919.

Bleached flour issue settled, when Bureau of Chemistry decides that bleached flour may be shipped within jurisdiction of law, if bleaching has not concealed inferiority or impaired quality or strength of article. Must be labeled "bleached." 1920.

President Hoover appointed Alexander Legge, of the International Harvester Co., chairman of the Federal Farm Board. Ex-Governor Samuel R. McKelvie, of Nebraska, named grain representative. 1929.

The Interstate Commerce Commission issued an order placing coarse grains and grain products on the same basis as wheat and flour and, generally speaking, reducing freight rates on wheat and flour. Certain changes also were made in transit privileges. 1930.

Day of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
Minneapolis Sun Rises H. M.	4 27	4 27	4 28	4 29	4 29	4 29	4 30	4 31	4 32	4 33	4 33	4 34	4 35	4 36	4 37	4 38	4 38	4 39	4 40	4 41	4 42	4 43	4 44	4 45	4 46	4 47	4 48	4 49	4 50	4 51	4 52
Mean Time Sun Sets H. M.	7 40	7 40	7 40	7 39	7 39	7 39	7 38	7 38	7 38	7 37	7 37	7 36	7 36	7 35	7 34	7 34	7 33	7 32	7 32	7 31	7 30	7 29	7 28	7 27	7 26	7 25	7 24	7 23	7 22	7 21	7 20

BLEACHED FLOUR LAWS

The status of the federal regulations regarding the bleaching of flour was more or less uncertain from 1906, when the food and drugs law was enacted, until the summer of 1920. The question at issue was whether or not the bleaching process constituted adulteration within the meaning of the act.

On July 31, 1920, the Department of Agriculture issued the following statement: "Bleached flour may be shipped within the jurisdiction of the law only under the condition that the bleaching has not concealed inferiority or impaired the quality or strength of the article, and then only on condition that it is branded plainly to indicate that it has undergone a process of bleaching. Failure to label the containers to show that such flour has been bleached will subject it to a charge of misbranding. No action will be taken at the present time on the ground that bleaching introduces into the flour a substance which may be injurious to health, provided, as a result of bleaching, there is not introduced into the flour such a quantity of the bleaching agent as may render it injurious as indicated in the decision of the Supreme Court. Should evidence later become available that the bleaching of flour introduces an ingredient in minute quantities, which has the effect of rendering the article injurious to health, announcement of the fact will be made and appropriate action taken to prevent thereafter the shipment of bleached flour within the jurisdiction of the food and drugs act. Whether bleaching in any given specification reduces the quality and strength of the flour or conceals damage or inferiority must be decided on the basis of the facts in each particular case."

In subsequent announcements by the Department of Agriculture, it was stated that the words "Artificially Bleached," "Bleached by ..... Process" or "Bleached" must be used, and that the words "Artificially Matured" would not be accepted as a satisfactory equivalent.

Before the close of 1923, nearly all the states, including Pennsylvania, Wisconsin and North Dakota, had revised their laws to conform to the federal rulings. The usual requirement is that all artificially bleached flour shall be so labeled in plain and conspicuous letters not less than one inch in height.

The states which, on Jan. 1, 1927, reported bleached flour regulations differing from those of the federal government were as follows:

GEORGIA

"Flour bleached with nitrogen peroxide is adulterated, under the food and drugs act of Aug. 21, 1906. The character of the adulteration is such that no statement upon the label will bring bleached flour within the law, and such flour cannot legally be made or sold in the state of Georgia."

NEBRASKA

The state law requires that bleached flour shall be so labeled only in case the bleaching agent used is nitrogen peroxide.

NEW YORK

The state law provides that an article of food shall be deemed to be adulterated "if it contains any added poisonous or other deleterious ingredient which may render such article injurious to health." If the flour in question is not in violation of this clause, the state Department of Agriculture and Markets is of the opinion that "it could be sold as a bleached flour when plainly labeled, stating all of the constituents that are present, if any, which have caused the bleaching."

New York City has a special ordinance, providing that "no flour, to which oxides of nitrogen, or nitrous acid, or nitrates, or chlorine, or any other chemical bleaching agent has been added, shall be brought into, or held, kept, sold or offered for sale in the City of New York, unless the package or container shall be legibly and conspicuously marked or labeled with the words, 'Bleached with ——' (giving the name of the bleaching agent used)." All bleached flour products must be similarly labeled "Made from flour bleached with ——."

NORTH CAROLINA

"Flour artificially bleached with nitrogen peroxide or chlorine or any other agent, when offered for sale in North Carolina, shall have plainly marked or printed in a conspicuous place on the sack, barrel or other package, in letters not smaller than five-eighths of an inch in size, the legend: 'Artificially Bleached.' Before any artificially bleached flour shall be offered for sale in this state, the manufacturer, dealer, agent, or person who causes it to be sold or offered for sale by sample or otherwise within this state shall file with the commissioner of agriculture a statement that it is desired to offer such bleached flour for sale in North Carolina, and the name of the manufacturer or jobber and the brand name of the flour if it has such." For each brand of artificially bleached flour registered and offered for sale, an annual inspection fee of $15, due during January, must be paid.

SOUTH CAROLINA

All flour that has been subjected to any treatment whereby it is bleached, or its natural color changed in any manner through chemical action, must be clearly and conspicuously labeled on the package to show this fact. The statement on the label must contain the word "Bleached" in letters not less than one half inch in height. If chlorine be used in the bleaching process, underneath the word "Bleached" must appear the words "Chlorine used."

Grades of Flour

When wheat is ground in a modern flour mill, 70 to 75 per cent of the total weight of the berry is obtained as flour. The remaining 25 to 30 per cent consists of feed.

This 70 per cent or more of flour is known as straight grade, or 100 per cent, flour.

The straight may be separated into several different "extractions." The best 60 to 75 per cent of the straight grade flour constitutes short patent. The remaining flour is called a first clear.

If the separation is made so that the best 80 to 90 per cent of the straight is obtained, the result is a second patent flour. The residue is second clear.

Similarly, a 95 per cent extraction flour, or standard patent, may be made.

A few mills separate an especially fine 40 per cent short patent flour and call the balance straight. A straight grade flour may be mixed with a clear flour to get a "stuffed" straight.

The exact definition of any flour grade has always been unsettled, and is a matter largely determined by individual practice. A canvass of some of the spring wheat mills in the Northwest leads to the following conclusions regarding the percentages of the different grades:

	Per cent
Short patent	60 @70
Standard patent	75 @85
Straight	90 @95
First clear	15 @25
Second clear	3 @10
Low grade	2½ @ 5

It should be remembered in considering the above table that much depends upon the individual mill's process of grinding. For instance, should a mill make only a short patent, it would produce a fancy clear the percentage of which would be higher than the first clear produced by a mill grinding a standard patent. This reasoning applies to other grades.

Interpretation of "Cwt"

In the United Kingdom the term "cwt" means 112 lbs. In the United States and in Canada the term is used generally to indicate 100 lbs. It has been found most satisfactory to use the term "per 100 lbs" when quoting foreign markets, in order to avoid misunderstanding on this account.

SELF-RISING FLOUR LAWS

The following is the text of the Texas self-rising flour law:

Whoever manufactures for sale within this state, or offers or exposes for sale or exchange, or sells any self-rising flour, or compound intended for use as a self-rising flour, under any name or title whatsoever, shall securely affix or cause to be securely affixed to the outside of every box, can, sack or package containing such self-rising flour or like mixture or compound, a label distinctly printed in plain capital letters in the English language, containing the name and domicile of the manufacturers or dealers, and the percentage by weight of each of the chemical leavening ingredients of the contents thereof. Such self-rising flour or any compound so termed or styled, when sold for use shall produce not less than one half of 1 per cent, by weight, of available carbon dioxide gas, and there shall not be contained in such self-rising flour more than 3½ per cent of chemical leavening ingredients; otherwise, such flour or compound shall be deemed adulterated.

Self-rising flour is defined to be a combination of flour, salt, and chemical leavening ingredients. The flour shall be of the grade of "straight" or better, and the chemical leavening ingredients are: bicarbonate of soda, and either calcium acid phosphate, sodium aluminum sulphate, cream of tartar, tartaric acid or combinations of the same.

NORTH CAROLINA RULING

The following regulation applies in North Carolina:

When a leavening agent or baking powder is added to flour, and the flour has become what is known as self-rising flour, the same shall be plainly stated on the bag, barrel or other package, and in connection with the word "self-rising," the name of the acid salt of which the powder or leavening agent is made, as is provided by regulation on baking powder.

SOUTH DAKOTA

Label must specify the ingredients in self-rising flour in the order of their predominance, with the leavening agents plainly and conspicuously declared.

NORTH DAKOTA

Self-rising flour must be labeled to show the names of the flour ingredients and leavening agents and the percentage of each.

MINNESOTA

Self-rising flour must be labeled to show the names of the ingredients in the order of their predominance, printed in a uniform size of type. The leavening mixture must be plainly and conspicuously declared.

RULES ADOPTED BY THE FEED TRADE

The following are the rules of the Grain and Feed Dealers' National Association governing transactions in feedstuffs. They have been adopted by the Millers' National Federation, and practically all of the markets:

Rule 1—Trade. It shall be the duty of both buyer and seller to include in their original articles of trade, however conducted, the following specifications: number of sacks, tons or cars; kind and grade of feed; price; rate basing point; time of shipment; terms of payment, sight draft unless otherwise specified.

Rule 2—Confirmation. (a) It shall be the duty of both buyer and seller, not later than the close of business day following date of trade, to mail, each to the other, a confirmation in writing (the buyer a confirmation of purchase and the seller a confirmation of sale), setting forth the specifications as agreed upon in the original articles of trade. Upon receipt of said confirmation the parties thereto shall carefully check all specifications named therein and, upon finding any differences, shall immediately notify the other party to the contract, by wire or telephone, and confirm in writing, except in the case of manifest errors and differences of minor character, in which event notice by return mail will suffice.

(b) When a trade is made through a broker, it shall be the duty of the broker, not later than the close of business day following date of trade, to send a written confirmation to each of the principals (to the buyer a confirmation of sale and to the seller a confirmation of purchase) setting forth the specifications of the trade as made by him. Upon receipt of said confirmations, the parties thereto shall carefully check all specifications named therein and, upon finding any differences, shall immediately notify the other party to the contract by wire or telephone, and confirm in writing. In default of such notice the contract shall be filled in accordance with the terms of the confirmation issued by the broker.

Rule 3—Brokers. (a) A broker is one who is engaged for others, on a commission basis, in negotiating contracts relative to property with the custody of which, actual or constructive, he has no concern.

A person is not a broker—

First: Who has possession and absolute control of merchandise shipped to him to sell and collect the proceeds. (Therefore, a commission merchant, to whom feed is consigned for sale, is not a broker.)

Second: Who receives a salary instead of a commission or brokerage.

Third: Who acts for one principal to the exclusion of all others.

(b) A broker has power to bind his principals only to the extent of his instructions, and the principals are not liable for any acts of the broker in excess of such instructions.

(c) A broker who, in good faith or otherwise, exceeds his authority, is liable for resulting damages.

(d) A broker who negotiates a contract without disclosing his principal's name is responsible as principal until the real principal's name is given and accepted by the other party.

(e) A broker who in good faith negotiates a contract which is in accord with instructions from both his principals, who at the time of the negotiations advises each principal of the name of the other, and who completes such negotiations in accordance with the rules and customs governing such transaction, thereby fulfills all his obligations and has no further liability to either of his principals, unless otherwise agreed. The contract so negotiated is valid and binding between the buyer and seller, the same as if it had been negotiated directly between them.

(f) Brokerage shall be credited when contract is accepted by principals to the transaction, unless otherwise specified.

Rule 4—Bills of Lading. Bills of lading attached either to invoices or to drafts shall be original and negotiable and in conformity with the specifications of the contract on which the shipment is to apply, and shall be signed in accordance with the rules of carriers. Any loss resulting from irregular or incorrect bills of lading shall be paid by the seller.

Rule 5—Demurrage and/or Additional Charges. The seller shall be liable for any demurrage and/or additional charges accruing on feed billed to "shipper's order," when such charges can be shown to have accrued by reason of the inability of the buyer, through act of the seller or his agent, to get possession of the bill of lading, whenever said bill of lading is necessary to furnish disposition.

Rule 6—War Tax on Freight Charge. On all feeds sold at a delivered price it shall be the duty of the seller to pay the federal freight tax. The buyer shall pay such federal freight tax where feed is sold at a price f.o.b. shipping point. (Repealed Oct. 3, 1922.)

Rule 7—Carload. A carload shall be forty thousand (40,000) pounds, unless otherwise specified at times of purchase; provided, that where rules of carriers lawfully on file with the Interstate Commerce Commission or state railway commissions provide for minimum carload weights in excess of the above, such minimum weights shall constitute a carload within the meaning of this rule.

Rule 8—Durum Wheat Byproducts. Durum wheat byproducts shall not be deliverable on contracts for wheat feeds unless so specified.

Rule 9—Origin of Feed. (a) A sale of feedstuffs shall not of necessity mean that the feedstuffs will originate at the home address of the seller. If at time of sale buyer requests origin, seller is obliged to give same by zones, as follows:

Zone No. 1.—Shall mean either Kansas, Nebraska, Oklahoma, Texas.

Zone No. 2.—Shall mean either Missouri, Illinois, Iowa.

Zone No. 3.—Shall mean either Indiana, Ohio, Michigan, Kentucky, Tennessee.

Zone No. 4.—Shall mean either Minnesota, Wisconsin, North Dakota, South Dakota, Montana.

Zone No. 5.—Shall mean either Colorado, Utah, Wyoming, Oregon, Washington, California, Idaho.

Zone No. 6.—Shall mean either New York, Pennsylvania, Virginia, Maryland.

(b) A sale of feedstuffs contemplates shipment from mills on or after the date of sale, unless otherwise specified.

(c) The differential in freight rates shall be those in effect on date of contract of sale from seller's business address, unless otherwise specified.

Rule 10—Privileges. In all delivered sales to any terminal markets the point specified shall be considered as a rate basis only and not necessarily final destination of goods, and shipment shall be made to any point and via any line open for business designated by the buyer which is reached by lake, or lake-and-rail lines during the season of navigation, or by all-rail trunk lines at other times, at the differential in effect at the time of contract of sale, as shown by published tariff rates; provided shipment is made within contract time, and provided further, that such routing is in accord with transit arrangements of shipper.

Rule 11—Definitions. In the absence of agreement to the contrary, definitions of feedstuffs shall be the same as those adopted and promulgated by the Association of Feed Control Officials of the United States.

Rule 12—Packing. (a) It shall be understood that all feedstuffs when sold in sacks shall be packed in new bags, unless otherwise specified at time of trade.

(b) The weight of packages shall be net when packed, and two thousand (2,000) pounds net shall constitute a ton.

Rule 13—Shortage, Damage and/or Overcharge. (a) All claims for shortage and/or damage shall be made by the receiver within fifteen (15) days after arrival, and must be accompanied by paid expense bill with railroad agent's notations as to damages; likewise condition of equipment and seals.

(b) Upon receipt within thirty (30) days after arrival of complete papers covering freight overcharges on delivered sales, seller shall immediately reimburse buyer. Upon receipt of complete papers, in such case, at any time after thirty (30) days from date of arrival, seller will undertake to collect claim for account of buyer.

Rule 14—(a) Immediate or Rush Shipment shall mean shipment within three (3) calendar days from the date of receipt of shipping instructions, including day instructions are received by seller.

(b) Quick Shipment shall mean shipment within seven (7) calendar days from date of receipt of shipping instructions, including day instructions are received by seller.

(c) Prompt Shipment shall mean shipment within fourteen (14) calendar days from the date of receipt of shipping instructions, including day instructions are received by seller.

(d) Unspecified Shipment. Where shipment is not specified, prompt shipment is understood.

(e) Loaded, Spot, Instant or on Track shall mean that the goods are actually loaded and ready for billing, and the lading must be dated on the day of sale.

(f) In Transit shall mean that the lading must be dated at least one day prior to date of sale.

(g) Deferred Shipment. In the purchase and sale of feed for deferred shipment the following specifications shall govern:

Where a specific number of days is not specified in contract, but the time is referred to as first half or second half of a given month, it shall be understood that up to midnight of the 15th shall be considered the first half (this including February), the remainder of the month to be considered as second half.

(h) The date on original bill of lading, from point of origin, as shown on exchange of bill of lading, shall be accepted as the original date of shipment; provided the shipment originates in the zone specified.

(i) Season Shipments. Season shipments shall mean shipment any time, at the seller's option, between the date of sale and Dec. 31 of the current year, inclusive.

(j) On all shipments the date of issuance of bill of lading, signed by the agent of the railroad issuing same, shall be conclusive evidence of date of shipment, unless conclusive evidence to the contrary can be shown.

Rule 15—Directions. Unless otherwise agreed in the contract, all sales are understood to be for shipment at seller's option at any time during time of shipment specified or provided for in contract.

Specifications on sales for spot, immediate or quick shipment, or for shipment within less than fourteen (14) days, must be furnished by buyer at the time contract is made; and if so furnished, seller shall make shipment within time of shipment specified or provided for in contract.

Specifications on sales for prompt shipment must be furnished by buyer as follows: If not demanded by seller, specifications must be furnished within fourteen (14) days from making of contract, and if demanded by seller at any time at or after making of contract specifications must be furnished within three (3) days after such demand; and if so furnished, seller shall make shipment within fourteen (14) days after receipt of specifications.

Specifications on sales for shipment within fourteen (14) days or more but not more than thirty-one (31) days from making of contract must be furnished by buyer as follows: If not demanded by seller, specifications must be furnished within contract time; and if demanded by seller at any time at or after making of contract, specifications must be furnished within three (3) days after such demand; and if specifications, whether demanded or not, are furnished by buyer within three (3) days after making of contract, seller shall make shipment within contract time.

Specifications on sales for shipment extending more than thirty-one (31) days from making of contract are not due from buyer until commencement of contract time of shipment but must be furnished by buyer as follows: If not demanded by seller, specifications must be furnished by buyer within contract time of shipment; if demanded by seller at any time at or after commencement of time of shipment specified in contract, specifications must be furnished within three (3) days after such demand; and if so furnished by the buyer, provided the same are received by the seller at least fourteen (14) days before the last day of contract time of shipment, seller shall make shipment within contract time.

If, in any of the cases above mentioned and while the contract is still in force, specifications are furnished after the first three (3) days of time of shipment specified or provided for in the contract shall have expired, the time of shipment shall be extended so that seller shall have the same amount of time after the receipt of specifications, within which to make shipment, as the length of time of shipment specified or provided for in the contract; and if so furnished, seller shall make shipment within the time of shipment as so extended under the foregoing provisions.

If specifications are demanded by seller and are not furnished by buyer within three (3) days thereafter (in case last day of time of shipment is thirty-one (31) days or less from date of contract) or within three (3) days after commencement of period of shipment in case last day of time of shipment is more than thirty-one (31) days from date of contract, seller may, at any subsequent time before receipt of specifications, elect to treat the contract as broken and to hold the buyer for breach of contract. If the seller so elects, seller shall give notice to buyer of such election by sending a telegram or mailing a letter to buyer before the receipt of specifications.

The contract shall be deemed broken by the buyer at the expiration of the time of shipment mentioned or provided for in the contract, in the following case, viz: If specifications are demanded by seller during contract time, and buyer has failed to furnish same in accordance with the foregoing provisions, and the seller has not during contract time given notice to buyer of the seller's election to treat the contract as broken. If the seller elects to hold buyer for breach of contract, the seller shall give notice to the buyer of such election by sending a telegram or mailing a letter to the buyer prior to noon of the day following the expiration of the time of shipment specified or provided for in the contract.

If a buyer violates any of the other terms of the contract, amounting to a breach of contract, the seller shall, if it elects to treat the contract as broken by reason thereof, give notice of such election to buyer by sending a telegram or mailing a letter to the buyer prior to noon of the day following the day on which the seller receives notice of such violation by the buyer.

In the event buyer fails to furnish specifications as required under these rules, or violates any of the other terms of the contract, amounting to breach of contract, and the seller gives due notice, as above provided, of its election to hold the buyer for breach of contract, the seller shall have the following rights:

(a) To resell goods in the open market for buyer's account, buyer to pay seller the loss incurred; or,

(b) To retain goods, buyer to pay seller difference between contract price and market price in the event of market price being lower, and also in addition thereto such actual expense as shall have been incurred.

(c) To cancel the contract on any unshipped portion thereof.

(d) It shall be the duty of the seller, without demand, in event of default of contract, to notify buyer of that fact by wire or telephone prior to noon of day following date of expiration of contract.

Within twenty-four (24) hours after the seller gives due notice, as above provided, of its election to hold the buyer for breach of contract, the seller must give notice to the buyer which one of the above rights seller elects to exercise, such notice to be given by mailing letter or sending telegram to buyer.

If the seller fails to ship as required by the contract or violates any of the other terms of the contract, amounting to breach of contract, the buyer shall, if it elects to treat the contract as broken by reason thereof, give notice of such election to the seller by sending a telegram or mailing a letter to the seller prior to noon of the day following the day upon which the buyer receives notice of such violation by the seller.

In the event seller fails to ship as required under these rules or violates any of the other terms of the contract, amounting to breach of contract, and the buyer gives due notice, as above provided, of its election to hold the seller for breach of contract, the buyer shall have the following rights:

(a) To cancel that part of the contract upon which there has been default; or,

(f) To buy in the open market a like quantity and quality of feedstuffs for seller's account, seller to pay buyer the loss incurred; or,

(g) Seller to pay difference between the contract price and market price, if the market price is higher than the contract price, and in addition such actual expense as shall have been incurred.

Within twenty-four (24) hours after the buyer gives due notice, as above provided, of its election to hold the seller for breach of contract, buyer must give notice to the seller which one of the above rights buyer elects to exercise, such notice to be given by mailing letter or sending telegram to seller.

In event the buyer's notice is not received by the seller at any time before shipment, the contract shall be extended so as to include the shipment and delivery when made.

A change in specifications previously filed with the seller does not extend any contract except upon mutual agreement at the time such change is requested.

Rule 16—Registration. On sales of feedstuffs the seller guarantees that the feedstuffs shall comply with the laws of the state into which it is sold, including registration and tax, if any, unless otherwise agreed at the time of sale.

Rule 17—Refusal of Shipment. Failure to make any shipment in keeping with the terms and conditions of a contract shall be grounds for the refusal only of such shipment or shipments, and not for the rescission of the entire contract or any other contract between buyer and seller.

Rule 18—Arbitration. In cases of arbitration of disputes resulting from transactions in feedstuffs, where one or both parties to the dispute are members of trade associations or exchanges that have adopted these rules, these rules shall define the rights of the parties and shall be the basis of award.

Terms of Shipment

At the annual meeting of directors, delegates and members of the Millers' National Federation in Chicago, April 9, 1916, these definitions applying to shipment of flour and feed were adopted:

"Immediate," shipment within three days from date of receipt of shipping instructions, including day instructions are received.

"Quick," shipment within seven days from date of receipt of shipping instructions, including day instructions are received.

"Prompt," shipment within 14 days from date of receipt of shipping instructions, including day instructions are received.

At the Federation meeting on Oct. 14, 1921, these definitions were reaffirmed, but a resolution was adopted adding the word "calendar" before the word "days" in each instance, so as to obviate any possible confusion.

At the Federation meeting Oct. 20, 1922, a resolution was adopted construing shipment "at once" as identical with "immediate" shipment.

Net Weight Federal Law

The net weight amendment to the food and drugs act states that an article shall be deemed misbranded in the case of food in package form if the quantity of contents be not plainly marked on the outside of the package in terms of weight, measure or numerical count; provided, however, that reasonable variations shall be permitted. Net weight must, therefore, be marked on all food in package form, and the law is construed as including feed as well as flour.

1916 *August* *1931*

FEDERAL SUPERVISION OF GRAIN GRADES ESTABLISHED

NOTABLE TRADE EVENTS

LONDON Landing Clause controversy settled in London. 1905.

Canadian government presented 1,000,000 bags flour to England. 1914.

Grain Standards act providing federal supervision of grain grades became a law. 1916.

First rules and regulations for the government of the American milling industry promulgated. 1917.

Members of United States Millers' Committee officially appointed, and became the Milling Division of the Food Administration. James F. Bell, general chairman. 1917.

United States Grain Corporation, Julius H. Barnes, president, incorporated by the Food Administration. 1917.

President Wilson signed the food control bill. 1917.

President appointed Herbert Hoover Food Administrator. 1917.

Canada placed embargo upon exports of wheat. 1917.

North Dakota issued revised regulations permitting the manufacture and sale of bleached flour. 1923.

Russia renewed exports of grain to western Europe for the first time since the beginning of the war. 1923.

Sydney Anderson resigned as president of the Millers' National Federation to accept position with General Mills, Inc. 1929.

Revised official flour definitions adopted by Department of Agriculture. 1930.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week		S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M
Minneapolis	Sun Rises H.M.	4 53	4 54	4 55	4 56	4 57	4 58	4 59	5 0	5 1	5 2	5 3	5 4	5 5	5 5	5 6	5 7	5 8	5 10	5 11	5 12	5 13	5 14	5 15	5 16	5 17	5 18	5 19	5 20	5 21	5 22	5 23	5 24
Mean Time	Sun Sets H.M.	7 19	7 18	7 16	7 15	7 14	7 13	7 11	7 10	7 9	7 7	7 6	7 4	7 3	7 2	7 0	6 59	6 57	6 56	6 54	6 53	6 51	6 50	6 48	6 46	6 45	6 43	6 41	6 40	6 38	6 37	6 35

New York—Rules and Charges

Freight for domestic delivery not moved within two days is stored at risk and expense of owner at public warehouses within the lighterage limits. Charges are 1c per 100 lbs for the first six periods of five days each, 1½c per 100 lbs for the second six periods of five days each, and 2c per 100 lbs for each succeeding period of five days. This makes the cost of storing a barrel of flour for one month 12c, and for two months 30c.

The free time for export flour is 10 days. Exception: Carload freight covered by through export bills of lading in connection with United States Shipping Board will be given 15 days' free time at seaboard.

For Transferring Grain in Elevator—One quarter of one cent bu.

For Delivery in Bags—For bagging, including sewing or tying, with a specific weight in each bag, 1½c bu. Where double bags are used or double sewing required, 2c bu.

Final Delivery—When freight is ordered by shipper into New York warehouse, carriers construe it as accomplishing final delivery, subject to lighterage free movements.

Delivering Grain to Ocean Vessel—For delivery direct from elevator the charge is ¾c bu.

For Mixing Grain—When grain is mixed in elevator, the charge is ¼c bu, applying on each bushel forming the mixture.

Receiving, Weighing, and Storing—The uniform charge is ¼c bu for the first 10 days or part thereof, and 1-25c bu for each day thereafter. Ten days free storage is allowed on grain exported. If ordered on storage before arrival, provided grain is sent direct from railroad elevator to vessel or delivered direct to vessel from elevator.

Track Storage Charges—For the first 48 hours after car is placed on team track for delivery (time computed from first 7 a.m. after car is placed), no charge is made. For next succeeding two days the charge is $1 per day or fraction thereof, in addition to the regular car service charges.

New York—Free Lighterage

Carriers are making free lighterage deliveries on domestic carload freight subject to F.T.C. permits.

The normal free lighterage limits in New York harbor are as follows:

New York Side—Battery to One Hundred and Thirty-fifth Street.

New Jersey Side—National Storage Docks, Communipaw, to and including Fort Lee, N. J.

EAST RIVER AND HARLEM RIVER

New York Side—Battery to Jerome Avenue bridge, including Harlem River side of Ward's and Randall's Islands.

Brooklyn Side—From Pot Cove, Astoria, to and including Newton and Dutch Kills creeks and points in Wallabout Canal west of Washington Avenue bridge, and to Hamilton Avenue bridge, Gowanus Canal, and to and including Sixty-ninth Street, South Brooklyn (Bay Ridge).

New York Bay—Points on north and east shore of Staten Island between Bridge Creek (Arlington) and Clifton, both inclusive, and including Shooter Island between Constable Hook and Avenue C, Bayonne City, opposite Port Richmond, S. I.

Flour Definitions

The Food Standards Committee has established the following definitions and standards of white flour and whole wheat flour.

Whole wheat, entire wheat flour or graham flour is the clean, sound product made by grinding wheat, and contains all of the constituents of the cleaned grain in their natural proportions.

Flour, wheat flour, white flour is the clean, sound, finely ground product obtained in the commercial milling of wheat, and consists essentially of the starch and gluten of the endosperm. It contains not more than 15 per cent of moisture, not less than 1 per cent of nitrogen, not more than 1 per cent of ash, and not more than .5 per cent of fiber.

When these definitions were proposed, a third, relating to bolted graham flour, was considered, but it was felt that the Department of Agriculture should not attempt to enforce a name on a product which was not yet completely standardized. Products that do not conform to these two definitions, therefore, must have the contents indicated on the label, in accordance with administrative regulations.

New York—Flour Consumption

The annual consumption of flour in Greater New York City is approximately 6,000,000 bbls. The type varies with the crop, but for 1930 it is estimated that of this 40 per cent was spring, 40 per cent hard winter, 20 per cent soft winter, and 5 per cent whole wheat, rye, etc.

Taking in the Metropolitan district, a radius of 30 miles, which includes Staten Island, Jersey City and its surroundings, the amount of flour consumed annually is estimated to be about 10,000,000 bbls.

NEW YORK—FLOUR TRADE RULES

Sales of flour to and in New York are to a very large extent governed by the rules of the New York Produce Exchange. These rules are made by what is known as the committee on flour, five members of the flour trade, appointed by the president of the exchange, subject to approval by the board of managers.

This committee has entire charge of matters pertaining to the flour trade and the inspection of flour, the appointment of the chief inspector and his assistants, and acts as a board of appeals in cases of dissatisfaction with inspection.

When sitting as an appeals board the committee on flour collects a fee of $15 from the loser in the case appealed. The committee on flour also fixes rules governing the flour trade, but in such action a majority vote of the flour trade is essential to the adoption of the rule.

New York flour inspections are made at the railway terminals and the inspection certificates are dispatched direct to the receivers. Some receivers give the inspection department carte blanche to inspect all shipments arriving for them; others order inspection only upon arrival of cars they desire to have inspected.

In cases where flour remains on track or in store for a considerable period, several inspections are sometimes made.

Percy Van Alstyne is chief flour inspector at New York.

FLOUR INSPECTION

Inspection charges are 1½c bbl of flour and 1c per sack of flour or barrel of meal. For original inspection, the buyer may charge ¼c per package to the account of seller. The charge for reinspection is 1c per package, to be divided between buyer and seller, when ordered by the former. Charges for weighing 25 bbls and taring 5 bbls are $3, and for weighing without taring 6c on each barrel or bag weighed, to be equally divided between buyer and seller. All weighing and inspection charges are retained in a special "flour inspection fund."

On all sales made of flour on spot or to arrive at the Port of New York, the buyer is allowed 48 hours for inspection and acceptance or rejection of the tender; the time allowance to date from the hour the flour is available for inspection, and not to include Sundays, legal holidays, or other days when the Produce Exchange is closed for business. Members of the New York Produce Exchange or other authorized, responsible parties may have flour inspected.

REINSPECTION OF FLOUR

A holder of an inspection certificate, if dissatisfied, may order reinspection; if the original inspection is sustained, the holder of the certificate shall pay the fee; if the original inspection is not sustained the exchange is liable for the actual loss occasioned through the erroneous inspection.

APPEALS

A holder of an inspection certificate may further appeal to the committee on flour, upon the payment of a fee of $5, in case the inspection is sustained, for each parcel submitted. Any party feeling aggrieved at the decision of the committee on flour in a matter of interpretation of the flour trade rules, but not specifically in inspections, may appeal to the board of managers of the Produce Exchange.

SCOPE OF FLOUR INSPECTION

Flour is inspected for soundness and uniformity only, and according to rule is marked "sound" or "unsound" as the case may be.

FLOUR WEIGHTS

In determining weights, the average of 25 bbls is taken, leaving out packages in bad order or largely deficient in weight, which must be separately entered and certified to. The net weight is accepted as the actual weight.

TIME OF SHIPMENT

"Prompt shipment" means shipment from mill within 14 days, not including the day of sale; "immediate shipment" means within seven days, not including day of sale. When flour is sold "to arrive" without time of delivery being stated, seller has the right, at the end of 40 days, to tender the flour or such part thereof as has not been taken by the buyer. When flour is sold for "mill shipment" without specified date, seller has the right to demand shipping directions within 40 days.

UNFILLED CONTRACTS

When buyer refuses to care for flour when properly tendered, seller has the right to cancel the transaction or to sell the flour for account of buyer, the buyer to stand for any loss made. When seller does not deliver, the buyer has the right to cancel the contract or to replace the flour in the open market, charging his loss in replacement to the seller. In case of any breach of contract a nonmember may enter complaint against a member under the present rules.

UNSOUND FLOUR

Flour and corn goods are inspected for soundness and uniformity, and when so inspected, if found to be sound, have the name of the Produce Exchange inspection, together with the month and year thereof and the word "sound" branded on each sack and upon the side of each barrel.

Sound flour or corn goods found, on inspection, to contain worms or weevil, are not branded. All found on reinspection to contain worms or weevil have the original inspection brand marked off by the inspector.

On request, the inspection brand may be omitted on flour or corn goods when same is found to be sound, but in every case unsound goods must be so branded.

When flour or corn goods are found to be irregular, the inspector brands marks on the package to distinguish the various qualities, and a record of these irregularities is kept and appears on the certificate of inspection.

ODORS IN FLOUR

Flour having an injurious odor, other than that of garlic, may not be tested as sound in the New York market.

STATE LAWS AS TO FEEDINGSTUFFS

The following summary of the state laws regarding the sale of commercial feedingstuffs has been made on the basis of reports received from all the states in January, 1931. Millers and others doing an interstate business in commercial feedingstuffs are advised to communicate with the state officials whose names and addresses are given in this summary.

ALABAMA

Inspection fee, 20c per ton. Registration fee, $2 per year for each brand. Annual registrations due Oct. 1. S. P. Storrs, Commissioner of Agriculture and Industries, Montgomery.

ARIZONA

The state law requires that the standards established by federal law shall be maintained. Each sack of poultry feed must bear a label, not less than 2½x5 inches in size, on which is distinctly printed the actual ingredients and chemical analysis, guaranteed by the manufacturer of the ingredients thereof. J. H. Rider, director, State Laboratory, University of Arizona, Tucson.

ARKANSAS

Inspection fee, 10c per ton. No registration fee, but each brand of commercial feeds must be registered. Wheat byproducts are included under the law. Whole grains, hays and straws, unadulterated wheat, rye, corn and rice bran, unadulterated wheat, corn, rye and buckwheat shorts and middlings, are exempt from inspection fee. Each bag of commercial feed must have attached thereto a tag showing net weight, analysis, ingredients and name and address of manufacturer. A tax stamp must be attached to each tag, except those on bags of feed that are exempt from inspection fee. Registration permanent. Parker C. Ewan, Commissioner of Conservation and Inspection, Little Rock.

CALIFORNIA

No inspection fee. No registration fee, and brands are not required to be registered. Every lot or parcel of commercial feedingstuffs, including wheat byproducts, must have affixed thereto a tag or label containing a legible and plainly printed statement, in English, on one side only, certifying (a) net weight of contents; (b) name, brand or trademark; (c) name and address of manufacturer or person responsible for placing the commodity on the market; (d) minimum per cent of crude protein and crude fat; (e) maximum per cent of crude fiber and of ash; (f) the specific name of each ingredient, named in approximate order in which they predominate; (g) percentage of such ingredients as corn cobs, corn bran, oat hulls, barley hulls, rice hulls, ground light rice, or similar materials; (h) the percentage of grit or mineral matter. No tax tags. M. E. Jaffa, Chief of Bureau of Food and Drugs, State Department of Health, Berkeley.

COLORADO

Permanent registration at $2 for each brand. Inspection fee 10c ton. All feedstuffs must be registered, except whole seeds and unmixed meals consisting of entire grains of corn, wheat, rye, barley, oats, kafir and milo, or a mixture of any two of the foregoing; whole hays, straws, sugar beet by-products, ensilage and cane molasses when unmixed with other materials; unmixed meal from whole alfalfa; alfalfa stem meal sold to consumer direct; all other materials consisting of 60 per cent or more of water. The label must contain net weight; name, brand, or trademark; name and address of person responsible for placing commodity on market; minimum percentage of crude protein, fat, and nitrogen free extract; maximum percentage of crude fiber; specific name of ingredients. B. O. Aylesworth, Director of Markets, Denver.

CONNECTICUT

Annual registration by calendar years required; fee, $15 per brand. Wheat byproducts are included under the law. All feedingstuffs must be labeled unless sold in bulk, when a certificate containing the information otherwise required must be furnished. No wire or metal may be used in affixing tags or labels. The label must show number of pounds in the package; the name, brand or trademark; the name and address of the manufacturer or importer; a statement of the minimum percentages of crude protein, crude fat, and the maximum percentage of crude fiber; and the name of each ingredient. W. L. Slate, Director of the Connecticut Agricultural Experiment Station, New Haven. W. J. Warner, Dairy and Food Commissioner, Hartford, Conn.

DELAWARE

Registration required for each brand; registration fee $1 per year; registration annual. Report of total sales of each brand required on or before Jan. 5 of each year, with payment of tonnage tax of 10c per ton. Each package must be plainly marked with net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; minimum percentages of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient. Unmixed wheat, rye and buckwheat brans or middlings not included under law. Ralph C. Wilson, Secretary Board of Agriculture, Dover.

FLORIDA

Manufacturers or dealers must file annually, on or before Jan. 1, a statement giving name and address, name and address of principal agents in Florida, name of brand and guaranteed analysis. Inspection fee, 25c per ton. Each package must have affixed thereto a tag or label stating the number of net pounds of feed in the package; the name, brand or trademark; the name and address of the manufacturer, and the guaranteed chemical analysis, showing the percentages of fat, protein, sugar, starch, fiber and mineral matter. The tag or label must bear the stamp showing the payment of the inspection fee, such stamps being furnished to manufacturers or dealers by the commissioner of agriculture. Wheat byproducts are included under the law. The use of mineral substances not to exceed 5 per cent in poultry and 3 per cent in swine and cattle feed is permitted. Nathan Mayo, Commissioner of Agriculture, Tallahassee.

GEORGIA

Brands must be registered annually, on or before Jan. 1. No registration fee. Inspection fee, 20c per ton, except for cottonseed meal, which is 10c ton, stamps to be secured from the state Department of Agriculture and affixed to the tags or labels. Every package must have a tag or label stating number of net pounds contained; ingredients of feedingstuff; name, brand or trademark; name and address of the manufacturer or jobber, and statement of maximum percentage of crude fiber and minimum percentage of crude fat and crude protein. All concentrated commercial feeds must be sold in standard weight packages of 50, 75, 100, 125, 150, 175 or 200 lbs. Wheat byproducts included under the law. Eugene Talmadge, Commissioner of Agriculture, Atlanta.

IDAHO

No registration or inspection fee. Registration permanent. All feeds must be registered except whole seeds or meals made from principal grains, peas and beans; whole hays, straw, cottonseed hulls, corn stover; ground or whole mill screenings when unmixed with other materials. Label must show net weight, name of brand and name and address of manufacturer or distributor; minimum percentage of crude protein and fat; maximum percentage of crude fiber; specific name of ingredients. W. A. Davis, administrative assistant, Department of Agriculture, Boise.

ILLINOIS

Brands must be registered annually in December. Registration fee, $25 for each brand or kind of feed. Wheat byproducts are included under the law. No inspection fee. Each package must be labeled or branded with a statement certifying the net weight of contents; the name, brand or trademark; the name and address of the manufacturer; the minimum percentage of crude protein and crude fat; the maximum percentage of crude fiber; and the specific name of each ingredient. Pure wheat bran or middlings not containing screenings or other substances are not included. Perry B. McCullough, Superintendent Division of Foods and Dairies, 1040 Transportation Building, Chicago.

INDIANA

Inspection fee, 15c per ton. The inspection fee is met with by requiring manufacturers to order official tags by submission of certificate of registration properly made out and attested. Registration is not accepted unless a minimum of $5 worth of tags is ordered with the registration. Annual registrations are not necessary. Wheat byproducts are included under the law. All packages must be tagged with official tags secured from the state chemist, these tags covering the requirements for labeling. H. R. Kraybill, State Chemist, Purdue University Agricultural Experiment Station, Lafayette.

IOWA

Brands must be registered annually, together with a certified copy of the statement required on the label; registration fee, 50c. For condimental, patented, proprietary or trademarked stock or poultry feeds the fee is $5 for each brand, each year. Inspection fee, 10c per ton, tags to be affixed to each package. Label must state net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; place of manufacture; chemical analysis, showing percentages of crude protein, crude fat and crude fiber, and nitrogen free extract. Wheat byproducts included under the law. W. G. Thornburg, Secretary of Agriculture, Des Moines.

KANSAS

Registration required for each brand; registrations permanent; unmixed meals exempt. Application must contain information required on label, except net weight, and in addition a sealed sample may be required. Inspection tax, 5c per ton, tax tags and stamps to be secured from the secretary of the state board of agriculture. Wheat bran and shorts included under law. Label on each package must state net weight of contents; name, brand or trademark; name and address of manufacturer; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber; percentages of carbohydrates and nitrogen free extract; specific name of each ingredient. J. C. Mohler, Secretary State Board of Agriculture, Topeka.

KENTUCKY

Inspection fee, 20c per ton. Wheat byproducts included. Registrations permanent. Kentucky tax tag or label, printed by the department, must be attached to each bag and state: net weight of contents, name of feed, name and address of manufacturer, guaranteed analysis stating percentages of protein, fat and fiber, the specific name of each ingredient, and if a material of little or no feeding value is used, the percentage of same must be given. If screenings are used, the percentage must be given and the statement whether ground or unground. Standards have been made for many byproduct feeds, including wheat feeds, and special purpose mixed feeds. J. D. Turner, head of Feed Department, University of Kentucky, Lexington.

LOUISIANA

Registration required for each brand; registrations are permanent. No registration fee. Inspection fee, 25c per ton, stamps to be attached at shipping point to each package. Label on each package must state net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; minimum percentage of crude protein, crude fats and carbohydrates; maximum percentage of crude fiber; specific name of each ingredient. No dairy feed containing less than 15 per cent protein, 3 per cent fat, nor more than 16 per cent fiber; no mixed feed containing less than 9 per cent protein, 2 per cent fat, nor more than 18 per cent fiber; no laying mash containing less than 18 per cent protein, 3.50 per cent fat nor more than 8 per cent fiber; no hog feed containing less than 14 per cent protein, 3.50 per cent fat nor more than 7 per cent fiber,—will be accepted for registration. Special grading for cottonseed meal. Harry D. Wilson, Commissioner of Agriculture and Immigration, Baton Rouge.

MAINE

No inspection fee. Registration fee, $10 for each brand, due Jan. 1. Registration certificate must give information required on label. Wheat byproducts included under law. No tax tags required. Label must state net weight, trademark, minimum amounts of protein, fat and maximum amounts of fiber; name and address of manufacturer. A. M. G. Soule, Chief Division of Inspection, Augusta.

MARYLAND

License fee, $20 per year for each brand. No license fee required for pure bran, pure middlings, pure mixed wheat or rye feed or pure corn meal. Annual registrations due Jan. 1. No inspection fee. Label on each package must state net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient. Philip H. Smith, Control Service, Amherst, Massachusetts Agricultural Experimental Station.

MICHIGAN

License fee, $20 per brand, payable annually on or before Jan. 1. All feeds not specifically exempt by statute must be licensed, and there is no additional registration fee. License not required for unmixed whole seeds or grains; unmixed meals made directly from the entire grains of corn, wheat, rye, barley, oats, buckwheat, flaxseed, kafir and milo; corn and oats feed; wheat, rye and buckwheat brans or middlings when unmixed with other materials, whole hays, straws, ensilage and corn stover when unmixed with other materials, and all other materials containing 60 per cent or more of water. No regulations concerning tax tags. Each package must be labeled showing the net weight of the contents; the brand; the name and address of the manufacturer; the minimum percentage of crude protein allowing 1 per cent of nitrogen to equal 6¼ per cent of protein; the minimum percentage of crude fat; the maximum percentage of crude fiber; the specific name of each ingredient used in its manufacture. Herbert E. Powell, Commissioner, Department of Agriculture, Lansing.

MINNESOTA

Registration, including sworn statement covering information given on label, required before feed can be sold; annual registration not required. Manufacturer or dealer must file sworn statement on or before Jan. 31 of each year showing number of net pounds of each brand of concentrated commercial feed sold in the state. Tags must be affixed to each package, sold by state dairy and food commissioner at the rate of 80c for each 100 tags covering 100 lbs each (i. e., 16c per ton), 50c for each 100 tags covering 50 lbs; 30c for each 100 tags covering 25 lbs. Each package must bear tag or label showing net weight of contents; name, brand or trademark; name and address of manufacturer; guaranteed analysis, showing minimum percentage of crude fat and crude protein, and maximum percentage of crude fiber. N. J. Holmberg, Dairy and Food Commissioner, St. Paul.

MISSISSIPPI

Registration of brands required annually on Jan. 1. Registration fee $5 for each brand. Duplicate registrations are to be filed with commissioner of agriculture, Jackson, and a copy of each registration is to be sent to the State Chemist, A. & M. College, Mississippi. No fee for registration with state chemist. Inspection fee, 20c per ton, tax stamps to be affixed to each package. Each package must be labeled with the uniform tag approved by the Association of Feed Control Officials of the United States, showing net weight of contents; name, brand or trademark; name and address of manufacturer or guarantor; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber, specific name of each ingredient. Tax tags are distributed by the commissioner of agriculture. J. C. Holton, Commissioner of Agriculture, Jackson.

MISSOURI

Registration required for all feedstuffs, except whole seeds and unmixed meals made from principal grains; whole hays, straws, cottonseed hulls, corn stover, pure corn chops, pure ground ear corn, when not mixed with other materials; materials containing 60 per cent or more of water. Registration fee $2 per calendar year or portion thereof. Inspection fee 5c ton. Every package must be labeled showing net weight, brand or trademark, name and address of manufacturer or person placing commodity on market; minimum percentage of crude protein, crude fat and nitrogen free extract, maximum percentage of crude fiber; specific (common) name of ingredients. Weight standards: 5, 8½, 10, 25, 50, 100, 150, 200 lbs. On or before Jan. 15 and July 15 each year, statement under oath shall be filed with the Board of Agriculture, setting forth number of tons of feed sold during preceding six calendar months and the inspection fee paid. Any feed shall be exempt from inspection fee when labeled with name and address of manufacturer, brand name, a declaration that such feed is to be used for mixing purposes only, and the inspection fee is not to be paid thereon. If any information in addition to that required by law appears on the label, it shall also be included in application for registration. Jewell Mayes, secretary, Board of Agriculture, Jefferson City.

MONTANA

No state laws. Commissioner of Agriculture, Helena.

NEBRASKA

No registration fee, but all brands must be registered, only one registration being required unless changes are made in the name of the brand or the formula. Unadulterated wheat, rye and buckwheat bran and shorts subject to registration, but not inspection fee. Tax, 10c per ton, tags to be affixed to each package. Each package must be labeled showing net weight, name, brand or trademark; name and address of manufacturer or dealer; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient; minimum percentage of carbohydrates minus fiber; maximum amount of each foreign material ingredient. H. J. McLaughlin, Secretary Department of Agriculture, Lincoln.

NEVADA

No law specifically on the sale of stock foods or feedingstuffs, this being covered in a general way by the state food and drugs law. The weights and measures law requires that each package be labeled with a statement of the net weight. Statements regarding minimum per cent of protein and fat or maximum per cent of crude fiber in the product are not required, but if such statement is made on the label or tag at-

September

STEAM POWER FOR MILLING AND METAL POWER TRANSMISSION MACHINERY FIRST USED IN ALBION MILLS, LONDON

1931

NOTABLE TRADE EVENTS

THE Northwestern Miller changed from monthly to weekly publication. 1875.

Strike of operative millers in Minneapolis. 1903.

Heavy imports of Canadian wheat and flour into the United States on free trade basis began early in September, 1920.

Permanent tariff bill signed by President Harding. 1922.

President Harding signed second Capper-Tincher act restricting trade in grain futures. 1922.

Members of the Chicago Board of Trade adopted an amendment authorizing the creation of a new system for clearing trades in grain futures. 1925.

The Novadel Process Corporation won its patent suit against the American Purifyne Co., giving it sole right to use organic peroxides in bleaching cereal products. 1928.

British millers form Millers' Mutual Association to rationalize industry as a whole, to provide for organized competition, and to economically and judicially liquidate excess mill capacity. 1929.

Interests controlled by the Archer-Daniels-Midland Co., and Guy A. Thomas, organized the National Foods Corporation and purchased control of the Commander-Larabee Corporation, Minneapolis. 1930.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day of the Week		T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
Minneapolis	Sun Rises H. M.	5 25	5 26	5 27	5 29	5 30	5 31	5 32	5 33	5 34	5 35	5 36	5 37	5 38	5 39	5 40	5 41	5 42	5 43	5 44	5 46	5 47	5 48	5 49	5 50	5 51	5 52	5 53	5 54	5 55	5 56
Mean Time	Sun Sets H. M.	6 33	6 31	6 30	6 28	6 26	6 24	6 23	6 21	6 19	6 18	6 16	6 14	6 12	6 11	6 9	6 7	6 5	6 3	6 2	6 0.5	5 58.5	5 56.5	5 55.5	5 53.5	5 51.5	5 49.5	5 48.5	5 46.5	5 44.5	5 43

tached to the package the published analysis must be correct within reasonable limits. No registration is required. Sanford C. Diamore, Commissioner Department of Food and Drugs, Reno.

NEW HAMPSHIRE

Annual registration required; registration fee, $15 for each brand, payable during December. Wheat byproducts included under law. No inspection fee or tags. Label on each package must state net weight of contents; name or trademark; name and address of manufacturer or shipper; place of manufacture; chemical analysis showing minimum percentages of crude protein, carbohydrates and crude fat, and maximum percentage of crude fiber; names of ingredients (in bold type) if a compounded feed. Andrew L. Felker, Commissioner Department of Agriculture, Concord.

NEW JERSEY

Annual registration due Jan. 1. Registration fee, 50c per brand. Inspection fee, 8c per ton. Wheat byproducts included in law. Statement of amounts of feed shipped into state must be filed semiannually, July 1 and Jan. 1. Charles S. Cathcart, State Chemist, New Brunswick.

NEW MEXICO

Registration permanent. No fee, but order for $6 worth of tax tags must accompany application. Inspection fee 12c per ton. All feeds must be registered, except whole seeds or grains, whole hays, straws, cottonseed hulls, corn stover, when unmixed with other materials; all other materials containing 60 per cent or more of water. Label must show net weight, name, brand or trademark; name and address of manufacturer or person responsible for placing commodity on market; minimum percentage of crude protein and fat; maximum percentage of crude fiber; percentage of nitrogen free extract; specific names of ingredients. Dr. H. L. Kent, president, College of Agriculture and Mechanic Arts, State College.

NEW YORK

Registration covering information on label required annually before Jan. 1. Registration fee $25 for wholesalers; $10 for retailers. All feedstuffs must be registered, except whole grains, roughages, unmixed meals made from whole grains, malt sprouts, unmixed ground or cracked bone, poultry feeds composed of whole or cracked grains, with or without grit, oyster shell or charcoal. Tags are not necessary on light-colored packages upon which the required statement is plainly printed. If tags are used, type must be not smaller than 8-point. Each package must be labeled showing net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber if it exceeds 5 per cent; the name of each ingredient; and if any ingredient classified under concentrated commercial feedingstuffs is present in smaller amount than 5 per cent of the whole, the minimum percentum of such ingredient; if artificially colored, the name of the material used for such purpose; percentage of total "roughages," if fiber content exceeds 12 per cent; in case of molasses, minimum percentage of sugar; in case of mineral or inorganic compounds, minimum percentage of each ingredient in amounts less than 5 per cent; in case of meat products with more than 22 per cent of tricalcium phosphate, the word bone must appear in part of brand name. Metal fasteners with sharp points must not be used to attach tags. B. A. Pyrke, Commissioner Department of Agriculture and Markets, Albany.

NORTH CAROLINA

Registration, which is permanent, required for each brand; no registration fee, but new registration is necessary when changes are made in brand or formula. Inspection fee, 20c per ton, tags to be affixed to each package. Wheat byproducts included under law. Each package must be labeled to show net weight of contents ("provided, that all concentrated commercial feedingstuffs shall be in standard weight bags or packages of 25, 50, 75, 100, 125, 150, 175 and 200 lbs"); name, brand or trademark; name and address of manufacturer or jobber; names of all ingredients; a guaranty that the contents are pure and unadulterated; maximum percentage of crude fiber; minimum percentage of crude fat, crude protein and carbohydrates. Special regulations for cottonseed meal. Use of metal fasteners for tags forbidden. W. A. Graham, Commissioner Department of Agriculture, Raleigh.

NORTH DAKOTA

Registration, including sworn statement covering information given on label, required before feed can be sold; annual registration not required; mixed meals made from entire grains of wheat, rye, barley, oats, Indian corn, buckwheat or broom corn are not required to be registered. Manufacturer or dealer must file sworn statement on or before Jan. 31 of each year showing number of net pounds of each brand of concentrated commercial feed sold in the state. Tags must be affixed to each package, and are sold by the state food commissioner and chemist at $10 per 1,000 for 100-lb tags, $6 for 50-lb tags, $4 for 25-lb tags, $3 for 24-lb stickers. Each package must bear tag or label showing net weight of contents; name, brand or trademark; name and address of manufacturer; guaranteed analysis, showing minimum percentage of crude fat and crude proteins, and maximum of crude fiber, and a statement of the ingredients from which the feed is compounded. Mineral feeds must also show the minimum percentage of lime, phosphoric acid, iodine, and the maximum percentage of salt. B. O. Baird, State Food Commissioner and Chemist, Bismarck.

OHIO

Registration annually by calendar years. Fee $20 for each brand. All feeds must be registered, except hays, straws, whole seeds and meals made from entire grains; pure wheat bran or pure wheat middlings, mixed or unmixed, but not with other substances. Label must show net weight; name, brand or trademark; name and address of manufacturer or person responsible for placing commodity on market; minimum percentage of crude protein, and crude fat; maximum percentage of crude fiber; specific name of each ingredient. Amount of foreign materials must be plainly stated on package. Perry L. Green, Director of Agriculture, Columbus.

OKLAHOMA

Registration required for each brand; no registration fee; registration permanent unless canceled. Inspection fee, 10c per ton, each package to be tagged with tax tag furnished by State Board of Agriculture. Tax tag must have printed on it statement showing net weight of contents; name, brand or trademark; name and address of manufacturer or importer; minimum percentage of crude protein, crude fat and nitrogen-free extract; maximum percentage of crude fiber; names of ingredients; percentages of substances of little or no feeding value. Manufacturer's guaranteed analysis must correspond with analysis shown on manufacturer's registration form on file with state board of agriculture. All wheat byproducts included under law. W. A. Caudill, Chief Inspector State Board of Agriculture, Oklahoma City.

OREGON

Annual registration fee of $10 required for each brand. Law includes all wheat byproducts, compounded dairy and poultry feeds, vegetable oil meal and meat meals. Tags or stencils on each package must state net weight; name, brand or trademark; name and address of manufacturer or dealer; minimum per cent of crude protein and fat; maximum per cent of crude fiber and ash; specific name of each ingredient. Fiber is limited under the law to 12 per cent, except in cases where the natural fiber content is greater than the 12 per cent, such as alfalfa meal, coconut meal, etc. J. D. Mickle, Dairy and Food Commissioner, 508 Worcester Building, Portland.

PENNSYLVANIA

Annual license fee of $25 for each brand, due Jan. 1 or before feeds are offered for sale except in the case of 10 kinds or grades of pure flour mill byproducts, which may be registered at the $5 rate. Label on each package must show net weight of contents; brand or trade name; name and address of manufacturer or importer; minimum guaranties for protein and fat; and maximum guaranty for fiber; statement of composition in the case of byproduct feeds and a list of ingredients for mixed feed. Metal fasteners of all kinds prohibited. James W. Kellogg, Director-Chief Chemist, Bureau of Foods and Chemistry, Department of Agriculture, Harrisburg.

RHODE ISLAND

No license, inspection fee, or registration is required, although any manufacturer or dealer may be required to file certified copy of label. Label on each package must state net weight of contents; name, brand or trademark; name and address of manufacturer or importer; percentage of crude protein and crude fat. Unmixed wheat, rye or buckwheat bran or middlings not included under law. B. R. Gilbert, Director of Agricultural Experiment Station, Kingston.

SOUTH CAROLINA

Registration required on Jan. 1 annually. Inspection fee 25c ton. All feeds must be registered, except whole grains, hays, straws, cottonseed hulls, and corn stover. Label must show weight of package, name, brand, or trademark; name and address of manufacturer, jobber or importer; percentage of crude protein and crude fat; maximum percentage of crude fiber; percentage of carbohydrates; names of ingredients. Molasses, sugar feeds and poultry scratch feeds must contain at least 2 per cent crude protein; beet pulp and corn bran 5 per cent, corn chop 7 per cent, all others 10 per cent. J. W. Shealy, Commissioner of Agriculture, Commerce and Industries, Columbia, S. C.

SOUTH DAKOTA

Registration required annually on or before July 15. Fee $15 for each brand of commercial feedstuffs, $20 for each brand of mineral deficiency feeds, $25 for live stock remedies. Label for commercial feeds must show net weight; name, brand or trademark; name and address of manufacturer or person responsible for placing commodity on market; minimum percentage of crude protein, and crude fat; maximum percentage of crude fiber; specific names of ingredients. Special regulations for labeling mineral deficiency feeds and live stock remedies. Information on tags must not be smaller than 10-point type. Frank B. Kriebs, Secretary of Agriculture, Pierre.

TENNESSEE

Registration required for each brand; no fee; registrations permanent. Wheat byproducts included under law. Inspection fee, 20c per ton, not required for unadulterated bran, shorts or middlings; tax stamps to be affixed to each package or tag. Label on each package must state net weight; brand; name and address of manufacturer; names of all ingredients, percentage of crude fat and crude protein; maximum percentage of crude fiber; percentage of carbohydrates. W. J. Pitts, Commissioner of Agriculture, Nashville.

TEXAS

Registration required for each brand; no registration fee; registrations are permanent. Inspection fee, 15c per ton; tax tags to be affixed to each package. The official tag is the only label recognized, and includes the following information: net weight; brand name; name and address of manufacturer or importer; minimum percentages of protein, fat and nitrogen free extract; maximum percentage of fiber; names of the ingredients, and percentage of each ingredient when rice hulls, peanut shells, corn cobs, oat hulls or other similar

STATE FEEDINGSTUFFS LAWS (CONTINUED)

substances are present in a mixed feed. Wheat byproducts included under law. F. D. Fuller, Chief, Division of Feed Control Service, College Station.

UTAH

Registration required for all brands; registration permanent unless change in formula is made; no registration fee. No inspection fee. Wheat byproducts included under law. Each package must be labeled showing net weight of contents; name, brand or trademark; name and address of manufacturer or distributor; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient. Harden Bennion, Commissioner Dairy and Food Department, Salt Lake City.

VERMONT

Annual registration required for each brand; registration fee $20. Wheat bran and middlings included under law. Each package must be labeled, showing net weight of contents; name, brand or trademark; name and address of manufacturer or importer; minimum percentages of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient; percentage of weed seed or screenings, except in poultry feeds, provided it exceeds 2 per cent. Use of wire or metal fasteners to attach tags prohibited. J. L. Hills, Director Agricultural Experiment Station, Burlington.

VIRGINIA

No registration fee for concentrated feeds, but for wheat and corn products a registration fee is required ranging from $5 to $20, according to the mill's output. Wheat products containing screenings require state inspection tags, and do not come under capacity registration. Registrations for concentrated feeds due annually Jan. 1; for wheat and corn products, annually July 1. Concentrated feeds must have state inspection tags; inspection fee, 15c per ton; wheat and corn products, if not containing screenings, exempt from inspection fee. Label on each package must show net weight of contents; brand; name and address of manufacturer; minimum percentages of protein and fat; maximum percentage of fiber; list of ingredients; guarantee as to purity. F. C. Breazeal, Director Dairy and Food Division, Department of Agriculture and Immigration, Richmond.

WASHINGTON

Registration required for each brand; no registration or inspection fees. Each package must be labeled, showing net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; guaranteed analysis showing minimum percentage of crude fat and crude protein and maximum percentage of crude fiber and crude ash (fiber not to exceed 10 per cent); percentage of moisture at time of analysis. E. J. Barnes, Director of Agriculture, Olympia.

WEST VIRGINIA

Registration required for all feeds, except whole seeds and unmixed meals of entire grains, whole hays, straws, corn stover; all materials containing 60 per cent or more of water. Registration fee $5 for each brand. Registration annually on or before July 1. No inspection fee. Label must show net weight; name, brand or trademark; name and address of manufacturer or person responsible for placing commodity on market; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient, with statement of amount or percentage of such ingredients as salt, charcoal, carbonate and phosphate of lime, grit, and such inferior and objectionable materials as commissioner may prescribe. Use of oat mill byproducts allowed if percentage is stated. John W. Smith, Commissioner of Agriculture, Charleston.

WISCONSIN

Registration required for each brand. Manufacturers or dealers must pay either (a) an annual license fee, due before Jan. 1, ranging from $5 to $20 for each brand, according to the capacity of the mill, or (b) a tonnage tax of 5c per net ton based on sworn returns of total amount of feed of each brand sold in the state during the preceding calendar year, no such total tax to be less than $10. Wheat byproducts included under law. Each package must be labeled showing net weight; name or brand; manufacturer's name and address; ingredients; percentages of protein, fat and fiber. W. B. Griem, Feed Inspection Department, Madison.

WYOMING

Annual registrations required, due Aug. 1. No registration or inspection fees, or tax tags. Each package must bear a printed label showing net weight of contents; name, brand or trademark; name and address of manufacturer or dealer; minimum percentage of crude protein and crude fat; maximum percentage of crude fiber; specific name of each ingredient. Wheat byproducts included under law. Arlington Gardner, Chief Deputy, Dairy, Food and Oil Division, Cheyenne.

VARIETIES OF UNITED STATES WHEAT

The following is a list of the varieties of wheat known in the United States. It is a botanical and geographical grouping system prepared by Charles H. Briggs, of the Howard Wheat & Flour Testing Laboratory, Minneapolis, and is based principally upon publications and correspondence with J. A. Clark, of the United States Bureau of Plant Industry. The standardized names adopted for the varieties grown either commercially or experimentally are given, those in quotation marks being experimental or not of commercial importance. In the table the abbreviation "R" is used for red kerneled wheats and "Wh" for white kerneled or amber wheats. Names which are shown in parentheses are common synonyms for the varieties that they follow.

COMMON WHEATS

A. Hard Spring (in northern states and Canada): Ceres R, "Dakota" R, "Dixon" (Humpback II), (semihard) R, "Early Red Fife" R, Garnet R, "Ghirka" (Ghirka Spring) R, Glyndon (Minnesota No. 163) R, Haynes Bluestem (Minnesota No. 169) R, Hope R, Humpback (semihard) R, "Huron" (semihard) R, Kitchener R, Kota R, Ladoga R, "Laramie" R, Marquillo R, Marquis R, "Norka" R, "Pioneer" R, Power R, Prelude R, Preston (Velvet Chaff) R, Progress R, Red Bobs R, Red Fife (Canadian Fife, Saskatchewan Fife, Scotch Fife) R, Reliance R, Reward R, Ruby R, "Rysting" R, "Stanley" R, Supreme R, "Webster" R, "Wellman" (Wellman's Fife) R, "White Fife" Wh.

B. Northern Hard Winter (in northern great plains states). Ioturk (Iowa No. 1154) R, Iowa No. 404 R, "Iowa No. 1946" R, Iowin (Iowa No. 2025) R, Karmont R, "Minard" R, "Minhardi" R, Minturki R, Montana No. 36 R, Newturk R, Wisconsin Pedigree No. 2 R.

C. Hard Winter (mainly central, also northern and western). Alton (Ghirka Winter) R, Bacska (Wisconsin Pedigree No. 408) R, Beloglina R, Blackhull (Clark's Black Hulled, Blackchaff) R, Bred R, Iobred R, Kanred R, Mosida R, Nebraska No. 60 R, Oro R, "Regal" R, Ridit R, "Sherman" R, Superhard R, "Tenmarq" R, Turkey (Crimean, Kharkof, Malakof, Theiss) R, "Yaroslav" R.

D. Soft Winter (eastern and central). Ashkof R, Ashland R, "Bearded Winter Fife" Wh, Berkeley Rock R, "Big Frame" R, China R, Climax (Jones Climax R, Currell (Currell's Prolific) R, Dawson (Dawson Golden Chaff) Wh, Democrat Wh, Denton R, "Diamond Grit" R, Diehl-Mediterranean R, Fleming R, Flint (Early May) R, Forward R, Fulcaster (Dietz, Marvelous, Stoner) R, Fulhio R, Fultz (Hickman) R, Fultzo-Mediterranean R, Gipsy (Lebanon, Reliable) R, Gladden R, "Gluten" (Gluten 885) R, Goens R, Goldcoin* (Forty-fold, Klondyke) Wh, Gold Drop R, "Golden Cross" R, Grandprize R, Greeson Wh, Harvest Queen (Prizetaker) R, "Homer" R, Honor Wh, "Hussar" (Red Hussar) R, Illini Chief R, Imperial Amber R, Jones Fife* (Super) R, "Kawvale" R, Leap (Leap's Prolific) R, "Link" (Missing Link) Wh, "Longberry No. 1" Wh, "Mammoth Amber" Wh, Mammoth Red R, Martin* (Silver Chaff) Wh, Mealy (Velvet Chaff) R, Mediterranean R, Michikof R, Nabob R, "Nebraska No. 28" R, "New Amber Longberry" Wh, Nigger R, Nittany R, Oakley R, "Oatka Chief" Wh, Odessa* R, "Ontario Wonder" R, Penquite (Penquite's Velvet Chaff) R, "Pesterboden" R, Poole (Harvest King) R, Portage R, "Pride of Genesee" R, Prosperity (American Bronze) R, Purkof R, "Read" (Read's Vermont Winter) Wh, Red Chief R, Red Clawson R, Red May (Red Cross, Jones Longberry) R, Red Rock R, Red Wave (Advance) R, Rice R, Rochester R, Rudy R, Rupert R, Rural New Yorker No. 6 R, "Rural New Yorker No. 57" R, Russian R, Russian Red R, "Satisfaction" (Smith's Rust Proof) Wh, "Schonacher" Wh, "Seneca Chief" Wh, Shepperd R, "Sibley" R, "Silversheaf" R, "Treadwell" Wh, Trumbull R, Valley (Niagara) R, "Virginia" R, Walker R, Wheedling R, White Winter Wh, "White Wonder" Wh, "Windsor" Wh, "Winter Chief" R, "Wisconsin Pedigree No. 40" R, "Wyandotte" (Wyandotte Red) R, Zimmerman R.

E. Soft Winter (western). "Arcadian" Wh, "Arlette" R, "Buffum No. 17" R, "Challenge" Wh, "Cox" R, Eaton Wh, Genesee Giant Wh, Goldcoin* (Forty-fold) Wh, Jones Fife* (Super) R, Kofod (sometimes intermediate or spring) Wh, Lofthouse R, Martin* Wh, Odessa* R, "Peterson" (Lars Peterson) R, Prohibition Wh, Red Russian R, "Ruddy" R, Silvercoin Wh, Sol R, "Squarehead" R, "Squarehead's Master" R, Triplet R, "White Odessa" Wh, "Winter Blue-stem" Wh.

F. Soft Spring (western). "Colorado No. 50" Wh, "Converse" R, "Dart" (Dart's Imperial) Wh, Defiance Wh, Dicklow Wh, Early Defiance Wh, Federation Wh, Foisy Wh, Galgalos Wh, Gypsum Wh, Indian Wh, "John Brown" Wh, "Mexican Bluestem" Wh, New Zealand Wh, Onas Wh, Pacific Bluestem (Palouse Bluestem, White Bluestem) Wh, "Pilcraw" Wh, Propo Wh, Rink Wh, "Schlanstedt" R, Sonora Wh, Surprise (Pringle's Surprise) Wh, Touse Wh.

G. Hard and Semihard Spring (western). Allen (Red Allen) Wh, Baart Wh, "Bobs" Wh, Bunyip Wh, "Canadian Red" Wh, "Champlain" (Pringle's Champlain) R, Chul R, "Ceylon" R, Fretes R, Hard Federation Wh, Huston R, "Jumbuck" Wh, Kinney R, "Lynn" Wh, Quality (Burbank) Wh, Regenerated Defiance Wh, Sevier Wh, "Talimka" Wh, White Federation Wh.

H. Soft Spring (eastern and southern, but fall sown in southeastern states). Emerald Wh, Java R, Palisade Wh, Purple Straw R (soft eastern spring but in southeastern states fall sown), "Resaca" R (same habit as Purple Straw).

CLUB WHEATS (WESTERN ONLY)

I. Spring. Big Club Wh, Blue Chaff (or intermediate) Wh, "Dale" R, Hybrid 63 Wh, "Hybrid 103" R (or intermediate), Hybrid 123 R, Hybrid 143 Wh (also intermediate), Jenkin Wh, Little Club Wh, "Mayview" R, Redchaff Wh, "Wilbur" Wh.

J. Winter. Albit Wh, Copper R, "Hybrid 60" Wh, Hybrid 128 Wh.

POULARD

K. Spring. Alaska (Egyptian, Miracle, Seven-headed) Wh, "Clackamas" R.
L. Winter. "Titanic" Wh, "Winter Alaska" R.

DURUM

M. Spring. Acme Wh, "Akrona" Wh, Arnautka Wh, Barnatka R, "Buford" Wh, "Golden Ball" Wh, Kahla Wh, Kubanka (Gharnovka, Porerodka, Beloturka) Wh, "Kubanka No. 8" Wh, Marouani Wh, Mindum Wh, Monad Wh, Mondak Wh, Nodak Wh, Nohoia Wh, Pelissa Wh, Pentad (D-5) R, "Velvet Don" Wh.

POLISH

N. Spring. "White Polish" Wh.

EMMER

O. Spring. "Khapli" R, "Vernal" R.
P. Winter. "Black Winter" R.

SPELT

Q. Spring. "White Spring" R.
R. Winter. "Alstroum" R, "Bearded" R, "Red Winter" R.

EINKORN

S. Winter. "Einkorn" R.

*These varieties are grown both in eastern, central and western states.

GOVERNMENT GRADES

The grades under which the above wheat varieties fall according to the United States official grain standards are as follows:

Hard Red Spring: Red varieties under A, F, G, and the variety Java under H.
Durums: M (both red and white).
Hard Red Winter: B, C.
Soft Red Winter: Red varieties under D, E, H, I and J.
White: White wheats under A, D, E, F, G, H, I and J.
Cereal Grains: K, L, N, O, P, Q, R, S.

GRINDING FLOUR IN BOND

The following summary gives the text of the sections of the United States tariff act of 1930 relating to the grinding of wheat in bond, and also brief notes as to the regulations of the Department of the Treasury in connection with the administration of these sections of the law.

GRINDING IN BOND

Sec. 311. That all articles manufactured in whole or in part of imported materials, or of materials subject to internal revenue tax, and intended for exportation without being charged with duty, and without having an internal revenue stamp affixed thereto, shall, under such regulations as the Secretary of the Treasury may prescribe, in order to be so manufactured and exported, be made and manufactured in bonded warehouses similar to those known and designated in Treasury Regulations as bonded warehouses, class six: Provided, That the manufacturer of such articles shall first give satisfactory bonds for the faithful observance of all the provisions of law and of such regulations as shall be prescribed by the Secretary of the Treasury.

Whenever goods manufactured in any bonded warehouse established under the provisions of the preceding paragraph shall be exported directly therefrom or shall be duly laden for transportation and immediate exportation under the supervision of the proper officer who shall be duly designated for that purpose, such goods shall be exempt from duty and from the requirements relating to revenue stamps.

No flour, manufactured in a bonded manufacturing warehouse from wheat imported after 90 days after the date of the enactment of this act shall be withdrawn from such warehouse for exportation without payment of a duty on such imported wheat equal to any reduction in duty which by treaty will apply in respect of such flour in the country to which it is to be exported.

Any materials used in the manufacture of such goods, and any packages, coverings, vessels, brands, and labels used in putting up the same may, under the regulations of the Secretary of the Treasury, be conveyed without the payment of revenue tax or duty into any bonded manufacturing warehouse, and imported goods may, under the aforesaid regulations, be transferred without the exaction of duty from any bonded warehouse into any bonded manufacturing warehouse; but this privilege shall not be held to apply to implements, machinery, or apparatus to be used in the construction or repair of any bonded manufacturing warehouse or for the prosecution of the business carried on therein.

BYPRODUCTS RETAINED

Articles or materials received into such bonded manufacturing warehouse or articles manufactured therefrom may be withdrawn or removed therefrom for direct shipment and exportation or for transportation and immediate exportation in bond to foreign countries or to the Philippine Islands under the supervision of the officer duly designated therefor by the collector of the port, who shall certify to such shipment and exportation, or ladening for transportation, as the case may be, describing the articles by their mark or otherwise, the quantity, the date of exportation, and the name of the vessel: Provided, That the byproducts incident to the processes of manufacture, including waste derived from cleaning rice in bonded warehouses under the act of March 24, 1874, in said bonded warehouses may be withdrawn for domestic consumption on the payment of duty equal to the duty which would be assessed and collected by law if such waste or byproducts were imported from a foreign country: Provided, That all waste material may be destroyed under government supervision. All labor performed and services rendered under these provisions shall be under the supervision of a duly designated officer of the customs and at the expense of the manufacturer.

A careful account shall be kept by the collector of all merchandise delivered by him to any bonded manufacturing warehouse, and a sworn monthly return, verified by the customs officers in charge, shall be made by the manufacturers containing a detailed statement of all imported merchandise used by him in the manufacture of exported articles.

Before commencing business the proprietor of any manufacturing warehouse shall file with the Secretary of the Treasury a list of all the articles intended to be manufactured in such warehouse, and state the formula of manufacture and the names and quantities of the ingredients to be used therein.

Articles manufactured under these provisions may be withdrawn under such regulations as the Secretary of the Treasury may prescribe for transportation and delivery into any bonded warehouse at an interior port for the sole purpose of immediate export therefrom.

The provisions of section 3433 of the Revised Statutes shall, so far as may be practicable, apply to any bonded manufacturing warehouse established under this act and to the merchandise conveyed therein.

DRAWBACK

Sec. 313. (a) Article made from imported merchandise.—Upon the exportation of articles manufactured or produced in the United States with the use of imported merchandise, the full amount of duties paid upon the merchandise so used shall be refunded as drawback, less 1 per centum of such duties, except that such duties shall not be so refunded upon the exportation of flour or byproducts produced from wheat imported after 90 days after the date of the enactment of this act. Where less or more products result from the manipulation of imported merchandise, the drawback shall be distributed to the several products in accordance with their relative values at the time of separation.

October *1931*

ERIE CANAL OPENED

NOTABLE TRADE EVENTS

OPENING of the Erie Canal provided important stimulant to westward movement of milling. 1825.

Stamwitz & Schober, Minneapolis, built five-run mill. 1875.

Charles M. Palmer became business manager of The Northwestern Miller. 1879.

Underwood tariff bill signed by President Wilson. 1913.

British government decided to take over the importation of wheat and flour. 1916.

Special committee of Millers' National Federation tables proposal to attempt to increase flour consumption by national advertising campaign to be undertaken by Federation. 1926.

Death of Professor Harry Snyder, chief chemist for the Russell-Miller Milling Co., coincides with the issue by The Northwestern Miller of a pamphlet entitled "Bread" containing his writings on the nutritive value of this food. 1927.

Farmers' National Grain Corporation, sponsored by the Federal Farm Board, became legal entity. The corporation provided a plan whereby farmers might extend their co-operative marketing activities on a nation-wide scale. 1929.

George Livingston elected executive vice president and treasurer of the Millers' National Federation. In view of the condition of health of A. P. Husband, the executive committee of the Federation relieved him of his duties, while continuing his salary. 1929.

At the instigation of Secretary Hyde, the Chicago Board of Trade abolished selling of wheat futures by foreign governments. This action was taken after Secretary Hyde declared that Russian short sales of 7,500,000 bus had depressed wheat prices in this country. 1930.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Day of the Week		T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
Minneapolis	Sun Rises H. M.	5 58	5 59	6 0	6 1	6 2	6 3	6 4	6 5	6 7	6 8	6 9	6 10	6 11	6 13	6 14	6 15
Mean Time	Sun Sets H. M.	5 41	5 39	5 37	5 36	5 34	5 32	5 31	5 29	5 27	5 25	5 24	5 22	5 21	5 19	5 17	5 16

		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Month		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week		S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
Minneapolis	Sun Rises H. M.	6 16	6 17	6 18	6 19	6 21	6 22	6 23	6 24	6 25	6 26	6 28	6 29	6 30	6 32	6 33
Mean Time	Sun Sets H. M.	5 14	5 13	5 11	5 10	5 8	5 7	5 5	5 4	5 2	5 1	5 0	4 58	4 57	4 55	4 51

BONDED WAREHOUSES

Sec. 555. Bonded Warehouses. Buildings or parts of buildings and other inclosures may be designated by the Secretary of the Treasury as bonded warehouses for the storage of imported merchandise entered for warehousing, or taken possession of by the collector, or under seizure, or for the manufacture of merchandise in bond, or for the repacking, sorting, or cleaning of imported merchandise. Such warehouses may be bonded for the storing of such merchandise only as shall belong or be consigned to the owners or proprietors thereof and be known as private bonded warehouses, or for the storage of imported merchandise generally and be known as public bonded warehouses. Before any imported merchandise not finally released from customs custody shall be stored in any such premises, the owner or lessee thereof shall give a bond in such sum and with such sureties as may be approved by the Secretary of the Treasury to secure the government against any loss or expense connected with or arising from the deposit, storage, or manipulation of merchandise in such warehouse. Except as otherwise provided in this act, bonded warehouses shall be used solely for the storage of imported merchandise and shall be placed in charge of a proper officer of the customs who, together with the proprietor thereof, shall have joint custody of all merchandise stored in the warehouse; and all labor on the merchandise so stored shall be performed by the owner or proprietor of the warehouse, under supervision of the officer of the customs in charge of the same, at the expense of the owner or proprietor. The compensation of such officer of the customs and other customs employees appointed to supervise the receipt of merchandise into any such warehouse and deliveries therefrom shall be reimbursed to the government by the proprietor of such warehouse.

REGULATIONS

Owing to the many and frequent changes in the regulations prescribed by the Department of the Treasury covering bonded manufacturing warehouses, any miller desiring to grind wheat in bond should apply direct to the Secretary of the Treasury for a copy of the latest regulations on the subject. In general, the regulations prescribe that the entire mill, or entire distinct unit of a mill, must be bonded. The amount of the bond required depends on the quantity of imported wheat handled, and the same is true of the charges for the services of customs and other officers called for by section 311 of the tariff law.

WAREHOUSE PERIOD

Sec. 557. Any merchandise subject to duty, with the exception of perishable articles and explosive substances other than firecrackers, may be entered for warehousing and be deposited in a bonded warehouse at the expense and risk of the owner, importer or consignee. Such merchandise may be withdrawn, at any time within three years (or 10 months in the case of grain) from the date of importation, for consumption upon payment of duties and charges accruing thereon at the rate of duty imposed by the law upon such merchandise at the date of withdrawal; or may be withdrawn for exportation or for transportation and exportation to a foreign country, or for shipment or for transportation and shipment to the Virgin Islands, American Samoa, or the Island of Guam, without the payment of duties thereon, or for transportation and rewarehousing at another port: Provided, That the total period of time for which such merchandise may remain in bonded warehouse shall not exceed three years (or 10 months in the case of grain) from the date of importation. Merchandise upon which duties have been paid and which shall have remained continuously in bonded warehouse or otherwise in the custody and under the control of customs officers, may be entered or withdrawn at any time within three years (or 10 months in the case of grain) after the date of importation for exportation or for transportation and exportation to a foreign country, or for shipment or for transportation and shipment to the Virgin Islands, American Samoa, or the Island of Guam, under such regulations as the Secretary of the Treasury shall prescribe, and upon such entry or withdrawal, and exportation or shipment, 99 per centum of the duties thereon shall be refunded.

REGULATIONS

Millers desiring to grind wheat in bond should secure from the Department of the Treasury a copy of the regulations governing such activities. The revised regulations, pursuant to the passage of the Tariff Act of 1930, probably will not be issued until about June, 1930, but in the meantime the regulations promulgated under the Tariff Act of 1922 are in force, provided that they do not conflict with the 1930 tariff measure.

Canada—Grain Commissioners

The following is a list of the commissioners and permanent officers of the Board of Grain Commissioners working under the Canada Grain Act:

Chief commissioner, E. B. Ramsay, Winnipeg.

Commissioners: Dr. D. A. MacGibbon and C. M. Hamilton, Winnipeg.

Assistant commissioners: F. J. Rathbone, Fort William; Professor T. J. Harrison, Winnipeg; R. S. Dundas, Regina; W. H. Blatchford, Calgary.

Secretary, J. Rayner, Winnipeg.

Chief inspector, James D. Fraser, Winnipeg.

Inspectors: F. Symes, Fort William; Thomas Young, Calgary; William Crawford, Vancouver; A. A. Bowen, Montreal; D. A. Benson, Toronto.

Chief weighmaster, S. M. Capon, Fort William.

Assistant chief weighmaster, J. T. Hollinshead, Fort William.

Chemist, F. J. Birchard, M.A., Ph.D., Winnipeg.

Statistician, E. A. Ursell, Fort William.

Warehouseman, C. F. Spittle, Winnipeg.

Deputy registrars: W. T. Todd, Winnipeg; R. C. Deakin, Fort William; H. E. James, Vancouver.

Mill and Elevator Fires

According to the report for 1929 compiled by the Mutual Fire Prevention Bureau for the flour mill and elevator insurance companies, the losses in that year were larger in number and the value of damage done less than in any year since 1925.

The number of losses, by years, and the amounts paid on this account, as compiled by the Mutual Fire Prevention Bureau, are:

Year	No. of losses	Amount paid
1910	255	$1,213,326.54
1911	256	1,311,986.21
1912	231	1,115,224.60
1913	233	1,365,454.20
1914	282	1,508,934.48
1915	227	1,210,996.24
1916	294	1,737,390.24
1917	280	1,821,443.15
1918	240	1,617,870.50
1919	220	1,702,926.15
1920	281	2,239,297.28
1921	339	2,927,176.18
1922	346	3,064,465.59
1923	314	2,164,281.01
1924	330	2,200,770.76
1925	312	2,105,494.86
1926	287	2,617,250.52
1927	235	1,861,091.51
1928	234	1,541,511.93
1929	252	2,185,177.41
Totals	5,448	$37,513,912.31

RECAPITULATION OF LOSSES BY CAUSES—1925-29

Cause—	Total no. of fires	Total amount of loss
Chimneys, flues, stacks, overheated or defective	15	$141,023.16
Conflagration	1	531.05
Electricity (except irons and similar small devices)	24	[illegible]
High voltage from outside	1	[illegible]
Motors, squirrel cage and brush	31	[illegible]
Starters and controls	2	[illegible]
Lightning entering on wiring	[illegible]	13,492.63
Electric flour bleachers	[illegible]	12,279.51
Dust explosion (inherent hazard)	[illegible]	[illegible]
Exposure	[illegible]	[illegible]
Fireworks, fire crackers, balloons, etc.	2	[illegible]
Friction sparks occasioned by running machinery not otherwise classified	[illegible]	45,393.77
Fire in cloth dust collector	1	49,214.61
Shaft through fan	[illegible]	4,943.25
Friction of belt or rope on wood	[illegible]	317.60
Hot box (friction on bearings)	[illegible]	[illegible]
Friction in attrition mills and grinder rolls	15	142,626.59
Friction in elevator head or boot	11	615,797.39
Friction in cleaning machinery	[illegible]	[illegible]
Gas explosion	1	[illegible]
Gas engine	[illegible]	32,167.31
Gas stove	1	[illegible]
Hot ashes and coals, open fires	2	[illegible]
Hot grease, oil, tar, wax, asphalt, ignition of	[illegible]	[illegible]
Hot irons (including electrical devices)	1	[illegible]
Incendiary	[illegible]	[illegible]
Lightning, buildings rodded or grounded	[illegible]	[illegible]
Lightning, buildings not rodded or grounded	[illegible]	[illegible]
Matches, smoking	[illegible]	[illegible]
Miscellaneous, cause known but not classified	[illegible]	[illegible]
Cob burners	[illegible]	[illegible]
Tramps and trespassers	[illegible]	5,076.37
Oil lamps	1	[illegible]
Gasoline lamps and lanterns	2	[illegible]
Exhaust pipes, exhaust pots and mufflers	14	[illegible]
Truck and tractor hazard	[illegible]	[illegible]
Oil engine starting torch	[illegible]	[illegible]
Backfire of gasoline engine	12	[illegible]
Internal combustion engine not otherwise classified	8	[illegible]
Oil burners, heating	2	[illegible]
Oil burners, power	1	[illegible]
Sparks from locomotive and all other railroad hazards	[illegible]	[illegible]
Sparks from stacks and chimneys (hazard)	[illegible]	[illegible]
Sparks on roofs (not classified below)	[illegible]	1,469.91
Sparks on roof from locomotive	12	28,1[illegible]
Sparks from stacks and chimneys on roof	1	[illegible]
Spontaneous combustion not otherwise classified	10	[illegible]
Spontaneous combustion in coal	[illegible]	[illegible]
Spontaneous combustion in feed	5	106,465.52
Spontaneous combustion in hay	5	[illegible]
Spontaneous combustion in oats	2	[illegible]
Spontaneous combustion in dust rooms	3	22,968.62
Steam and hot water pipes	[illegible]	[illegible]
Steam grain drier pipes and coils	[illegible]	[illegible]
Stoves, furnaces, boilers and their pipes not otherwise classified	[illegible]	[illegible]
Office stove	[illegible]	73,079.39
Hot air furnace	[illegible]	26,179.61
Hot air direct heat drier	[illegible]	36,939.43
Boiler room hazard	[illegible]	[illegible]
Unknown cause	[illegible]	4,836,329.31
	1,598	$8,295,571.46

CONTRACT GRADES OF GRAIN ON THE PRINCIPAL GRAIN EXCHANGES

The following information on the grades of grain and flaxseed deliverable on contracts for future delivery has been compiled by the Grain Futures Administration:

At present there are 14 grain exchanges designated as "Contract Markets" under the grain futures act. They are:

Baltimore Chamber of Commerce, Board of Trade of the City of Chicago, Chicago Open Board of Trade, Duluth Board of Trade, Kansas City Board of Trade, Los Angeles Grain Exchange, Milwaukee Chamber of Commerce, Minneapolis Chamber of Commerce, New York Produce Exchange, Omaha Grain Exchange, San Francisco Grain Trade Association of the Chamber of Commerce, Seattle Grain Exchange, St. Louis Merchants' Exchange, and the Portland Grain Exchange.

Transactions at Winnipeg and Vancouver are not subject to provisions of the grain futures act, but the grades deliverable are listed as a matter of convenience. The Winnipeg grades are on the basis of delivery in store at Fort William or Port Arthur.

The Chicago Open Board of Trade has provided by general rule the same contract grades that apply to the Board of Trade of the City of Chicago.

When the term "No. 2 corn" is used by the trade it refers to "No. 2 mixed corn" as designated by the federal grades under the grain standards act. White or yellow corn of the same numerical grade usually commands a premium over No. 2 mixed corn.

The Duluth Board of Trade is the only contract market that trades in durum wheat futures. The Minneapolis Chamber of Commerce and the Duluth Board of Trade are the only contract markets in the United States authorized to trade in flaxseed futures. The Minneapolis Chamber of Commerce and the Duluth Board of Trade have contract grades for winter wheat contracts, but all wheat contracts, unless otherwise specified, refer to spring wheat. The Los Angeles Grain Exchange is designated as a contract market for barley, corn and Kafir, but at present is trading in barley futures only.

Futures contracts for grain in the Los Angeles Grain Exchange and the San Francisco Grain Trade Association of the Chamber of Commerce are known as "time contracts."

The unit of trading at Los Angeles and San Francisco is 100 tons, whereas 5,000 bus is generally understood as the unit in all other markets.

St. Louis Merchants' Exchange contracts for wheat for future delivery, unless otherwise specified, are divided into two classes: "hard wheat" and "soft wheat."

The New York Produce Exchange began trading in domestic and bonded wheat futures contracts Aug. 1, 1926, and discontinued trading Dec. 31, 1927; therefore, grades of grain deliverable at that market are not included. The Omaha Grain Exchange began trading in wheat, corn and oats futures contracts June 16, 1930. The Grain Trade Association of the San Francisco Chamber of Commerce was originally designated as a contract market for barley only, but was designated to trade in wheat futures also Nov. 3, 1930.

Board of Trade of the City of Chicago

WHEAT

Deliverable at premium: 2c bu, No. 1 hard spring; 1½c bu, No. 1 dark hard winter; 1c bu, No. 1 dark northern spring; ½c bu, No. 2 dark hard winter.

Deliverable at contract price: No. 1 and *No. 2 hard winter, No. 1 and *No. 2 red winter, No. 1 northern spring.

The following will not be deliverable after June 1, 1931, and are deliverable after that date on old contracts only:

Deliverable at contract price: No. 1 and No. 2 yellow hard winter.

Deliverable at discount: 2c bu, No. 2 dark northern spring; 3c bu, No. 2 northern spring; 5c bu, No. 3 dark hard winter, No. 3 hard winter, No. 3 yellow hard winter, No. 3 red winter.

CORN

Deliverable at premium: ½c bu, No. 1 and No. 2 white corn, No. 1 and No. 2 yellow.

Deliverable at contract price: No. 1 and *No. 2 mixed.

The following grades will be deliverable on December contracts only after June 1, 1931, and are deliverable prior to that date on old contracts:

Deliverable at discount: 2c bu, No. 3 white and No. 3 yellow; 2½c bu, No. 3 mixed.

OATS

Deliverable at premium: ½c bu, No. 1 white.

Deliverable at contract price: *No. 2 white.

Deliverable at discount: 1½c bu, No. 3 white.

RYE

Deliverable at contract price: No. 1 and *No. 2.

Deliverable at discount: 5c bu, No. 3.

BARLEY

Deliverable at premium: 2c bu, No. 1.

Deliverable at contract price: special No. 2.

On contracts for grain or flaxseed for future delivery the tender of a higher grade of the same kind of grain or flaxseed than the one contracted for shall be deemed sufficient.

Where any contract calls for the delivery of grain of a stipulated grade or quality, such grade or quality shall be determined according to the rules, by-laws and regulations of the Board of Trade of Chicago, as they now exist or as they may be modified hereafter.

Minneapolis Chamber of Commerce

SPRING WHEAT

Deliverable at premium: 2c bu, No. 1 hard spring; 1c bu, No. 1 dark northern spring.

Deliverable at contract price: *No. 1 northern spring.

Deliverable at discount: 2c bu, No. 2 dark northern spring; 3c bu, No. 2 northern spring.

WINTER WHEAT

Deliverable at premium: 1c bu, No. 1 dark hard winter, No. 1 hard winter.

Deliverable at contract price: No. 2 dark hard winter, No. 2 hard winter.

CORN

Deliverable at premium: ½c bu, No. 1 and No. 2 white, No. 1 and No. 2 yellow.

Deliverable at contract price: No. 1 and No. 2 mixed, No. 2 white, *No. 3 yellow.

Deliverable at discount: 2½c bu, No. 3 mixed; 4½c bu, No. 4 white, No. 4 yellow; 5c bu, No. 4 mixed.

Provided that No. 4 corn of the new crop can be delivered only during November, December, January and February; provided, further, that in no case shall more than 25 per cent of No. 4 corn be applied on contract during any time of the year.

OATS

Deliverable at premium: ½c bu, No. 1 white.

Deliverable at contract price: *No. 2 white.

Deliverable at discount: 1½c bu, No. 3 white.

RYE

Deliverable at contract price: No. 1 and *No. 2.

Deliverable at discount: 3c bu, No. 3.

BARLEY

Deliverable at premium: 2c bu, No. 1.

Deliverable at contract price: *special No. 2.

Deliverable at discount: 5c bu, No. 2; 8c bu, No. 3.

FLAXSEED

Deliverable at contract price: *No. 1.

Upon all sales of flaxseed for "future" delivery, the following grades may be delivered: any and all No. 1 flaxseed, as established by the Joint Board of Grain Appeals or other properly constituted authority of the state of Minnesota, at the contract price; also any flaxseed, wherever grown, the commercial value of which is equal or better than No. 1 flaxseed; and any "merchantable" flaxseed of inferior quality, wherever grown, at a difference in price equal to the commercial difference in value as compared with No. 1 flaxseed.

Kansas City Board of Trade

WHEAT

Deliverable at contract price: No. 1 and No. 2 dark hard winter, No. 1 and *No. 2 hard winter, No. 1 and No. 2 yellow hard winter.

Deliverable at discount: 3c bu, No. 3 dark hard winter, No. 3 hard winter, No. 3 yellow hard winter.

CORN

Deliverable at contract price: No. 1 and *No. 2 mixed, No. 1 and No. 2 white, No. 1 and No. 2 yellow.

Deliverable at discount: 2½c bu, No. 3 mixed, No. 3 white, No. 3 yellow.

OATS

Deliverable at premium: ½c bu, No. 1 and No. 2 white.

Deliverable at contract price: *No. 3 white (testing 26 lbs or better).

KAFIR CORN

Deliverable at contract price: *No. 2 white.

Deliverable at discount: 1½c bu, No. 3 white; 3c bu, No. 2 milo maize, No. 2 feterita, No. 2 mixed grade; 4½c bu, No. 3 milo maize, No. 3 feterita, No. 3 mixed grade (consisting of Kafir corn, milo maize and feterita).

Deliveries of the foregoing grades (all grains) may be made in such proportions as may be convenient to the seller, subject, however, to the provisions of section XIV, article XIII, section VII, article XIV, and section XX, article XIII, of the constitution, rules and regulations of the Board of Trade of the City of Kansas City, Mo.

Duluth Board of Trade

DURUM WHEAT

Duluth is the only market trading in durum wheat for future delivery. Practically all transactions in wheat futures at Duluth are in durum.

Deliverable at premium: 2c bu, No. 1 amber.

Deliverable at contract price: *No. 2 amber, No. 1.

Deliverable at discount: 2c bu, No. 2; 4c bu, No. 3 amber, No. 1 mixed; 6c bu, No. 3, No. 2 mixed.

SPRING WHEAT

Deliverable at premium: 2c bu, No. 1 hard spring; 1c bu, No. 1 dark northern spring.

Deliverable at contract price: *No. 1 northern spring.

Deliverable at discount: 2c bu, No. 2 dark northern spring; 3c bu, No. 2 northern spring.

WINTER WHEAT

Deliverable at contract price: No. 1 and No. 2 dark hard winter, No. 1 and *No. 2 hard winter, No. 1 and No. 2 yellow hard winter, No. 1 and No. 2 red winter, No. 1 and No. 2 northern spring, No. 1 and No. 2 red spring.

Deliverable at discount: 5c bu, No. 3 dark hard winter, No. 3 hard winter, No. 3 yellow hard winter, No. 3 red winter, No. 1 and No. 2 hard white; 8c bu, No. 3 dark northern spring, No. 3 northern spring, No. 3 red spring.

RYE

Deliverable at contract price: *No. 2.

Deliverable at discount: 3c bu, No. 3.

BARLEY

Deliverable at premium: 2c bu, No. 1.

Deliverable at contract price: *special No. 2.

Deliverable at discount: 5c bu, No. 2; 8c bu, No. 3.

FLAXSEED

Deliverable at contract price: *No. 1. Any flaxseed wherever grown that shall be graded No. 1 shall be deliverable at contract price.

Deliverable at penalty of 2 per cent of the contract price: No. 2, wherever grown.

Milwaukee Chamber of Commerce

WHEAT

Deliverable at premium: 1½c bu, No. 1 dark hard winter, No. 1 dark northern spring; ½c bu, No. 2 dark hard winter, No. 2 dark northern spring.

Deliverable at contract price: No. 1 and *No. 2 hard winter, No. 1 and *No. 2 yellow hard winter, No. 1 and *No. 2 red winter, No. 1 and No. 2 northern spring.

Deliverable at discount: 5c bu, No. 3 dark hard winter, No. 3 hard winter, No. 3 yellow hard winter, No. 3 red winter; 8c bu, No. 3 dark northern spring, No. 3 northern spring.

CORN

Deliverable at premium: ½c bu, No. 1 and No. 2 white, No. 1 and No. 2 yellow.

Deliverable at contract price: No. 1 and *No. 2 mixed.

Deliverable at discount: 2c bu, No. 3 white, No. 3 yellow; 2½c bu, No. 3 mixed; 4½c bu, No. 4 white, No. 4 yellow; 5c bu, No. 4 mixed.

Any No. 4 corn, either white, yellow or mixed, may be delivered, provided that it can be delivered only during November, December, January and February.

OATS

Deliverable at premium: ½c bu, No. 1 white.

Deliverable at contract price: *No. 2 white.

Deliverable at discount: 1½c bu, No. 3 white.

BARLEY

Deliverable at premium: 2c bu, No. 1.

Deliverable at contract price: *special No. 2.

Deliverable at discount: 3c bu, No. 2; 8c bu, No. 3.

RYE

Deliverable at contract price: *No. 2.

Deliverable at discount: 5c bu, No. 3.

St. Louis Merchants' Exchange

On and after July 1, 1926, contracts for wheat for future delivery, unless otherwise specified, were divided into two classes, known for trade purposes as "hard wheat" and "soft wheat."

HARD WHEAT

Deliverable at contract price: No. 1 and No. 2 dark hard winter, No. 1 and No. 2 hard winter, No. 1 and No. 2 yellow hard winter.

Deliverable at discount: 5c bu, No. 3 dark hard winter, No. 3 hard winter, No. 3 yellow hard winter.

SOFT WHEAT

Deliverable at contract price: No. 1 and No. 2 red winter.

Deliverable at discount: 5c bu, No. 3 red winter.

CORN

Deliverable at contract price: No. 2 yellow.

Deliverable at discount: 2c bu, No. 3 yellow.

Provided that No. 3 yellow cannot be delivered during March, April and May, except at 4c bu discount under contract price.

OATS

Deliverable at contract price: No. 1 and *No. 2 white.

Deliverable at discount: 1½c bu, No. 3 white.

Omaha Grain Exchange

WHEAT

Deliverable at premium: 1c bu, No. 1 hard spring, No. 1 dark hard winter, No. 1 hard winter.

Deliverable at contract price: *No. 1 dark northern spring, *No. 1 northern spring, No. 1 yellow hard winter, No. 2 dark hard winter, *No. 2 hard winter, *No. 2 yellow hard winter.

Deliverable at discount: 3c bu, *No. 2 dark northern spring, *No. 2 northern spring, No. 3 dark hard winter, No. 3 hard winter, No. 3 yellow hard winter.

*To contain not over 10 per cent of Ghirka, or other soft varieties of similar type.

CORN

Deliverable at premium: 1c bu, No. 1 and No. 2 yellow, No. 1 and No. 2 white.

Deliverable at contract price: No. 1 and *No. 2 mixed.

Deliverable at discount: 1½c bu, No. 3 yellow, No. 3 white; 2½c bu, No. 3 mixed.

The following grades of corn are deliverable on December contracts only: At a discount of 6½c bu, No. 4 yellow, No. 4 white; 7½c bu, No. 4 mixed.

OATS

Deliverable at premium: ½c bu, No. 1 and No. 2 white.

Deliverable at contract price, No. 3 white (testing 28 lbs per bu or better).

Seattle Grain Exchange

WHEAT

Deliverable at contract price: No. 1 western white, No. 1 soft white, No. 1 hard white.

Deliverable at discount: 3c bu, No. 1 dark northern spring, No. 1 northern spring, No. 1 red spring, No. 1 dark hard winter, No. 1 hard winter, No. 1 yellow hard winter, No. 1 western red.

No. 2 and No. 3 wheat shall be accepted on contract at the regular Grain Exchange discounts and differentials of 2c and 4c respectively.

All wheat originating at points from which export rate is applicable may be delivered on contract, with the amount of such export rate rebate added as premium at time of delivery, provided necessary documents to procure export rebate accompany delivery.

Portland Grain Exchange

WHEAT

Deliverable at contract price: No. 1 hard white, No. 1 soft white, No. 1 western white.

Deliverable at discount: In case of deliveries made by tender of warehouse receipts: 2c bu, No. 2 hard white, No. 2 soft white, No. 2 western white; 4c bu, No. 3 hard white, No. 3 soft white, No. 3 western white. The following grades shall be accepted on contract at a discount of 3c bu: No. 1 hard spring, No. 1 dark northern spring, No. 1 northern spring, No. 1 red spring, No. 1 dark hard winter, No. 1 hard winter, No. 1 yellow hard winter, No. 1 western red. No. 2 of the above subclasses shall be accepted at a discount of 2c under No. 1 of same subclasses, while No. 3 will be accepted at a discount of 4c under No. 1.

In case of deliveries made on track, 1c bu, wheat of contract classes grading No. 2 on account of admixture of other classes; 2c bu, wheat of contract classes grading No. 2 on account any other degrading factor than test weight or admixture; 4c bu, wheat grading No. 3 on account any other degrading factor than test weight or admix-

November **1833** *1931*

JACOB SULZBERGER PERFECTED THE ROLLER MILL

NOTABLE TRADE EVENTS

JACOB SULZBERGER perfected the roller mill, the first installation being made in a plant at Frauenfeld, Switzerland. 1833.

Cadwallader C. Washburn, pioneer Minnesota miller, member of Congress, general in United States army during the Civil War, and governor of Wisconsin, built Washburn A mill, Minneapolis. 1873.

Minnesota millers combined to fight middlings purifier suits. 1876.

Fight against Keiper (Brua patent shark) begun by The Northwestern Miller; ended in complete rout of patent process pirates. 1895.

First meeting of the Canadian National Millers' Association held in Toronto. 1921.

Fiftieth Anniversary Celebration of The Northwestern Miller. 1923.

Incorporation of the Continental Baking Corporation, with an authorized capital of $600,000,000, under the laws of the State of Maryland. 1924.

American Bakers Association adopted new plan of organization. 1926.

National Food Bureau, an organization of southwestern millers and bakers determined to combat misleading statements against white bread, formed. 1927.

The National Food Bureau became countrywide in scope, with Sydney Anderson as president and H. T. Corson executive manager. 1928.

Herman Steen named secretary of the Millers' National Federation. 1929.

Federal Farm Board announced revised basis on which wheat loans were to be made to co-operatives. 1929.

On Nov. 10, the Chicago December wheat future declined to 69⅞c, practically the lowest price since 1902, and based on the change in the general price level, it was the lowest price since about 1845. 1930.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day of the Week		S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M
Minneapolis	Sun Rises H. M.	6 34	6 35	6 36	6 38	6 39	6 40	6 42	6 43	6 44	6 45	6 47	6 48	6 49	6 51	6 52	6 53	6 54	6 55	6 57	6 58	6 59	7 0	7 2	7 3	7 4	7 5	7 6	7 7	7 8	7 9
Mean Time	Sun Sets H. M.	4 52	4 52	4 50	4 49	4 48	4 47	4 46	4 45	4 44	4 42	4 41	4 40	4 40	4 39	4 38	4 37	4 36	4 35	4 35	4 34	4 33	4 33	4 32	4 32	4 31	4 31	4 30	4 30	4 29	4 29

ture. In no case shall a discount be taken for more than one degrading factor. Wheat grading below No. 3 and mixed wheat not applicable. The following grades shall be accepted at a discount of 3c bu: No. 1 hard spring, No. 1 dark northern spring, No. 1 northern spring, No. 1 red spring, No. 1 dark hard winter, No. 1 hard winter, No. 1 yellow hard winter, No. 1 western red. No. 2 and No. 3 of above subclasses accepted at discounts set forth in this section.

Discounts when delivered on track for test weight factor: 1c lb for each pound under basic test weight of 60 lbs for No. 1 hard white, soft white, western white, dark hard winter, hard winter, yellow winter, western red; 2c lb. for each pound under basic test weight of 58 lbs for No. 1 dark northern spring, northern spring, red spring. No discount on red spring for admixture of 5@10 per cent of red wheat of other classes.

Note.—Deliveries of storage wheat made in units of 1,000 bus. Wheat may be tendered on futures contracts in standard wheat sacks, and when so tendered will be accepted at a premium of 3c bu, subject to change in market price of sacks and published notification by exchange. Bad order sacks discounted 3c per sack, subject to above changes.

Los Angeles Grain Exchange

BARLEY

Deliverable at contract price: No. 2 western, No. 2 two-rowed, No. 3 bright western. Higher grades are deliverable without premiums.

Note. Deliveries of barley upon time contracts shall be made in approved public warehouses in the state of California, and shall be made by tender of regular negotiable warehouse receipt or receipts, sufficient to fill the contract covering the barley in same warehouse, which receipt or receipts shall be issued by such warehouses as are approved by the state railroad commission, and which hold a charter from the state of California, and shall have attached thereto a Los Angeles Grain Exchange certificate of inspection on each lot tendered, giving the grade, lot number, number of sacks of the barley and date of inspection, which must not be more than 15 days prior to date of tender, and must bear the name and location of the warehouse in which the barley is stored, the name of the inspector or authorized deputy who drew the sample, giving the date on which sample was drawn, as well as the condition of the sacks containing the barley. All accrued storage charges, if any, and storage charges for not less than 10 days after date of such delivery, shall be paid or allowed by the seller; regular or customary storage shall follow such receipts and be chargeable upon the barley. The all-railroad freight rates prevailing at the time of delivery and for a period of not less than 10 days after date of tender from point of delivery to Los Angeles shall be deducted by the seller. All loading out charges shall be paid or allowed by the seller.

San Francisco Grain Trade Association of the Chamber of Commerce

All contracts made for future delivery of inspected grain shall be known as "time contracts." Unless otherwise specified, all offers to buy or sell grain shall be in lots of 100 tons.

WHEAT

All sales and purchases of wheat on "time contracts" shall be on the basis of No. 1 hard white, No. 1 soft white, or No. 1 western white, federal grades, sacked,—subject to the Grain Trade Association's schedule of differentials, discounts and dockages in effect on the date the contract is made.

BARLEY

Unless otherwise specified by the caller, all barley contracts for future delivery shall be understood to be for California feed barley, in making deliveries of which, seller shall deliver in lots of 2,000 centals, California grown barley equal and superior in quality to a physical type which shall be approved and adopted by the grain committee during the month of June each year.

Note.—All deliveries of grain upon "time contracts" or upon spot sales of inspected produce must be made in warehouses designated as "regular" as defined in Rule X, unless otherwise expressly agreed upon, and shall be made by tender of regular negotiable warehouse receipts, which receipts shall be issued by such warehouses as are in all respects conformable to the requirements prescribed by the committee on grain, and shall have attached thereto the certificate of the inspector, giving the grade or quality and weight and number of sacks of the property to be delivered, and the date of inspection. All such warehouse receipts shall be made to run at least five days from the date of such delivery, free of storage charges; regular or customary storage charges shall follow such receipt and be chargeable upon the property; provided, that on barley or wheat delivered after May 31, 1923, in any regular warehouse not located in San Francisco, the seller on making delivery shall deduct from the price at which the contract stands the railroad freight rate prevailing at the time of delivery, from such warehouse to San Francisco, unless the parties have specifically agreed otherwise; and provided that on wheat and barley delivered in regular warehouses in Stockton the seller on making delivery shall deduct 1½c per cental from the price at which the contract stands, except that when delivery in Stockton is specified in the contract no deduction shall be made; and provided further that on feed barley delivered in regular warehouses at Port Costa, Crockett and South Vallejo, the seller upon making delivery shall deduct 3c per cental from the price at which the contract stands.

Baltimore Chamber of Commerce

The Baltimore Chamber of Commerce is licensed to trade in wheat and corn futures, although it is not actively engaged in trading in grain futures.

WHEAT

Deliverable at contract price: No. 1 and *No. 2 red winter, No. 1 and No. 2 red winter, garlicky.

CORN

Deliverable at contract price: No. 1, No. 2 and *No. 3 mixed, No. 1, No. 2 and No. 3 yellow, No. 1, No. 2 and No. 3 white.

On sales for year delivery, the seller may, in the same manner, deliver, at the same price, new and/or old crop natural and/or dried corn of the grades enumerated above.

Vancouver Merchants' Exchange

WHEAT

Deliverable at contract price: No. 1 Manitoba northern.

Deliverable at discount: 3c bu, No. 2 Manitoba northern; 8c bu, No. 3 Manitoba northern; 20c bu, No. 4 Manitoba northern.

Winnipeg Grain Exchange

WHEAT

In delivering wheat, oats, or barley, a higher grade than the contract grade may be delivered at the contract price.

Deliverable at contract price: *No. 1 Manitoba northern.

Deliverable at discount: 3c bu, No. 2 Manitoba northern; 8c bu, No. 3 Manitoba northern; 21c bu, No. 4.

OATS

Deliverable at contract price: *No. 2 Canada western.

Deliverable at discount: 3c bu, No. 3 Canada western, special feed oats, extra No. 1 feed; 5c bu, No. 1 feed.

BARLEY

Deliverable at premium: 2c bu, No. 1 and No. 2 Canada western six-row, No. 3 extra Canada western six-row, No. 1 and No. 2 Canada western two-row, No. 3 extra Canada western two-row.

Deliverable at contract price: *No. 3 Canada western, No. 1 and No. 2 Canada western Trebi, No. 3 extra Canada western Trebi.

Deliverable at discount: 3c bu, No. 4 Canada western.

FLAXSEED

Deliverable at contract price: *No. 1 North Western Canada.

Deliverable at discount: 1c bu, No. 2 Canada western.

RYE

Deliverable at contract price: No. 1 and *No. 2 Canada western.

Deliverable at discount: 3c bu, No. 3 Canada western.

*Indicates contract grades that are generally understood as basis, and in some markets are definitely so designated.

Alimentary Pastes Defined

The following revised and amended definitions and standards for alimentary pastes have been adopted by the food standards committee, composed of representatives of the United States Department of Agriculture, the Association of American Dairy, Food and Drug Officials, and the Association of Official Agricultural Chemists:

Alimentary pastes are the shaped and dried doughs prepared from semolina, from farina, from wheat flour, or from a mixture of any two or of all of these, with or without salt, and with one or more of the following: water, egg, egg yolk, milk, a milk product.

An alimentary paste contains not more than 13 per cent of moisture, as determined by the vacuum method.

Plain alimentary pastes are alimentary pastes made without egg or egg yolk, or so made that the content of the solids of egg and/or of egg yolk is, upon a moisture-free basis, less than 5½ per cent by weight.

Egg alimentary pastes are alimentary pastes which contain, upon a moisture-free basis, not less than 5½ per cent by weight of the solids of egg and/or of egg yolk.

Noodles, egg noodles, are a form of egg alimentary paste which, in the course of its preparation, has been rolled or pressed into sheets or ribbons, with or without subsequent cutting or shaping.

Water noodles are a form of plain alimentary paste which, in the course of its preparation, has been rolled into sheets or ribbons, with or without subsequent cutting or shaping.

Macaroni, spaghetti, vermicelli, are plain alimentary pastes, distinguished by their characteristic shapes.

Semolina macaroni, semolina spaghetti, semolina vermicelli, are plain alimentary pastes in the preparation of which semolina is the only farinaceous ingredient used, and are distinguished by their characteristic shapes.

The following definitions and standards for purified middlings, semolina and farina have been adopted:

Purified middlings is the clean, sound granular product obtained in the commercial process of milling wheat, and is that portion of the endosperm retained on 10XX silk bolting cloth. It contains no more flour than is consistent with good commercial practice, nor more than 15 per cent of moisture.

Semolina is the purified middlings of durum wheat.

Farina is the purified middlings of hard wheat other than durum.

These definitions and standards have been adopted as a guide for the officials of the Department of Agriculture in enforcing the food and drugs act.

STATE STANDARD WEIGHT LAWS

Summary of the laws of the states regarding the weights of flour and feed, as reported to The Northwestern Miller, Jan. 1, 1931.

ALABAMA

Plain and self-rising flour must be packed in sacks containing 6, 12, 48 and 98 lbs. or in 196-lb barrels. There is no regulation of prepared flours, such as pancake flour. Feed weights: 8½ (when packed 12 to a bale), 25, 50, 100, 150 and 200 lbs. Quality standards have been adopted for some feeds.

ARIZONA

Containers of flour and feed must be marked with the correct net weight of the contents. There is an allowance of 2½ per cent for shrinkage, made by law.

ARKANSAS

No prescribed weights for flour packages. Packages for feedstuffs must have net weights of 5, 8½, 10, 25, 50, 75, 100, 125, 150, 175 or 200 lbs.

CALIFORNIA

"One barrel of flour shall contain 196 lbs net weight; ½ bbl, 98 lbs; ¼ bbl, 49 lbs; ⅛ bbl, 24½ lbs. Shorts, packed in containers, shall weigh 80 lbs net weight. Bran, packed in containers, shall weigh 60 lbs net weight. Rolled barley, packed in containers, shall weigh 75 lbs net weight." The net container act permits the sale of flour in packages of less than 24½ lbs, provided the true net weight is marked on the container.

COLORADO

There are no special laws or regulations providing for standard weights. Weight must correspond to amount stated on the package.

CONNECTICUT

The state law merely requires that the true net weight of contents shall be plainly and conspicuously marked on all packages containing flour or feed.

DELAWARE

The state law makes no special provisions for flour or feed packages, merely requiring that the net weights of the contents be clearly marked on the package.

FLORIDA

The state law does not provide for standard weights of flour or feedstuffs. Net weight must be stated on package.

GEORGIA

When flour, grits or corn meal are packed in sacks, the gross weight shall be as follows: Sacks containing 140 lbs, sacks containing 280 lbs, ½ barrel sacks (98 lbs), ¼ barrel sacks (48 lbs), ⅛ barrel sacks (24 lbs), 1/16 barrel sacks (12 lbs), 1-32 barrel sacks (6 lbs). From the weights above specified, variations for inaccuracies will be allowed as follows: On all packages weighing 90 lbs or over, an allowance of ¼ of 1 per cent, and on all packages smaller than 90 lbs, an allowance of ½ of 1 per cent, less than the weights specified in section 2 of this act. Feedstuffs weights: 50, 75, 100, 125, 150, 175 and 200 lbs.

IDAHO

If in package form the contents must be stated in terms of weight or measure, and the net weight or measure must be plainly and correctly stated on the outside of the package. The net weight per barrel, or divisible merchantable quantities of a barrel, shall be as follows: wheat flour per bbl 196 lbs; per ½ bbl, 98 lbs; per ¼ bbl, 48 lbs; per ⅛ bbl, 24 lbs; per 1/16 bbl, 12 lbs. No feed weight standards.

ILLINOIS

The state law provides the following standard weights: flour, barrel, 196 lbs; ½ barrel, 98 lbs; ¼ barrel sack, 49 lbs; ⅛ barrel sack, 24½ lbs.

INDIANA

The standard weight of a barrel of flour is fixed at 196 lbs, net. There are no other restrictions, provided the net weight of contents is properly stated on the label or package.

IOWA

A barrel of flour shall consist of 196 lbs avoirdupois, and ¼ bbl consisting of 49 lbs shall be a sack of flour. No flour shall be sold as a barrel or sack which contains less than the amount herein specified. Flour may be sold by the pound in various sized packages.

KANSAS

The state law provides that all sales of mill products shall be on the basis of net weights, the same to be plainly marked on the outside of the barrel, sack, package or bale. The standard weight units for wheat flour, rye flour and corn flour are the barrel of 196 lbs net, the half barrel of 98 lbs; one-fourth barrel, 48 lbs; one-eighth barrel, 24 lbs; one-sixteenth barrel, 12 lbs. For feedstuffs in sacks the standard weight is 100 lbs not.

KENTUCKY

No standard weights for flour. Feed weights are 50, 100, 150 and 200 lbs.

LOUISIANA

There are no regulations providing for standard weights of flour packages. All packages must contain the net weight which is represented. Standard weights for feedstuffs are 100, 150, 175 and 200 lbs, net. Poultry feed may be packed in sacks of 50, 25, 12½, 8½ and 6¾ lbs, net.

MAINE

The state law merely requires that all packages must be plainly and conspicuously marked with the true net weight of contents. It also provides for the establishment of reasonable tolerances.

MARYLAND

Flour and millfeed may be sold in standard packages which are correctly labeled to show the net weight. The state law fixes 196 lbs as the weight for a barrel of flour.

MASSACHUSETTS

The state law merely requires that net weights must be clearly marked on each package, and that bran, shorts or middlings must be sold on the basis of the avoirdupois pound or hundredweight.

MICHIGAN

"When mill products of wheat, corn, rye or buckwheat, known as flour, grits, meal or compounds of the same, are placed or packed in barrels, fractional parts of a barrel or sacks to be sold or billed to any person or persons within this state, the standard weight or measure of a barrel or the fractional part thereof shall be as follows: 1 bbl, 196 lbs; ½ bbl, 98 lbs; ¼ bbl, 49 lbs; ⅛ bbl, 24½ lbs; 1/16 bbl, 12¼ lbs; 1-32 bbl, 6¼ lbs. Before any package containing the mill products or compounds of such mill products specified above shall be sold or offered or exposed for sale in this state, the number of pounds contained therein shall be plainly printed or stamped on the face label in plain English letters and numbers not less than ½ in high. When such packages are sold as ½, ¼, ⅛, 1/16 or 1-32 of a barrel, they shall be so marked in addition to the number of pounds marked thereon."

MINNESOTA

A barrel of flour is 196 lbs in Minnesota, and a fractional part of a barrel must be a fractional part of the legal weight thereof. Law does not preclude sale of flour otherwise than by the barrel or fractional part of a barrel.

MISSISSIPPI

Legal weight of flour barrel is 196 lbs, ½ bbl 98 lbs, ¼ bbl 48 lbs, ⅛ bbl 24 lbs. Net weight must be shown on the label. In the case of feeds, the analysis tag must show the net weight. The Department of Agriculture issues feed tax stamps for 25-, 50- and 100-lb packages.

MISSOURI

Barrel of flour shall consist of 196 lbs net, a sack of flour shall consist of 98 lbs net, a ½ sack of flour 48 lbs net and a ¼ sack of flour 24 lbs net. No dealer or manufacturer shall sell flour in barrels, sacks, half sacks or quarter sacks containing a less amount of flour than the amount specified by law. Before barrels, sacks, half sacks, quarter sacks shall be sold the number of pounds therein contained shall be specified on the label. Feed weight standards: 5, 8½, 10, 25, 50, 100, 150 and 200 lbs.

MONTANA

Packages must be plainly and conspicuously marked with the quantity of contents in terms of weight.

NEBRASKA

"The net weight per barrel or per hundred or divisible merchantable quantities shall be as follows and no packages other than these sizes shall be permitted for sale in the state of Nebraska: wheat flour per barrel, 196 lbs; per half barrel, 98 lbs; per quarter barrel sack, 48 lbs; per one eighth barrel sack, 24 lbs; and in smaller containers of 10 lbs, 5 lbs; rye flour, rye graham, wheat graham, whole wheat flour and corn meal in packages of the following weights: 100 lbs, 50 lbs, 25 lbs, 10 lbs, and 5 lbs. Nothing in this article shall be construed to prohibit the sale, in other sized packages, of flour prepared for special purposes."

NEVADA

The state law prescribes the following net weights: 1 bbl, 196 lbs; ½ bbl, 98 lbs; ¼ bbl, 49 lbs; ⅛ bbl, 24 lbs; 1/16 bbl, 12 lbs.

NEW HAMPSHIRE

The state law merely requires that the net weight of contents be plainly printed in large type on each package. Provision is made for reasonable tolerances.

NEW JERSEY

The state law makes no special provisions for flour or millfeed packages, merely requiring that the net weight of contents be clearly stated on each package.

NEW MEXICO

No standard weights for flour.

NEW YORK

Flour packed in wood must be in containers holding either 196 lbs or 98 lbs. All other containers must be marked with the net weight of contents. If less than 10 lbs, the letters indicating the weight must be at least one-ninth inch bold-faced letters; if from 10 to 100 lbs, the letters shall be at least ¼-inch bold-faced type, and if over 100 lbs, the letters shall be at least ½-inch bold-faced type. A variation of 3 per cent will be allowed.

NORTH CAROLINA

It is unlawful to sell flour except in packages containing 6, 12, 24, 48, 98 or 196 lbs, and the net weight and manufacturers' name and address must appear on the label. This does not apply to bulk sales. Foodstuffs weights must be 25, 50, 75, 100, 125, 150, 175 and 200 lbs.

NORTH DAKOTA

The state law empowers the State Food Commissioner to establish legal package weights for foodstuffs, but the present ruling for flour merely requires a statement of true net weight. A barrel must be 196 lbs.

OHIO

The legal weights of flour packages by the barrel are 196, 98, 49, 24½ and 12¼ lbs. However, flour may be packed in other size packages, providing it is properly labeled with the net weight, name and address of the packer, etc. For example, a 24-lb sack labeled properly cannot be sold as ⅛ bbl.

OKLAHOMA

"Mill products shall have the following standard weights: barrels of flour, in wood, 196 lbs net; ½ barrels, in wood, 98 lbs net; ¼ barrels, in sacks, 48 lbs gross; ⅛ barrels, in sacks, 24 lbs gross. The net weight must be plainly stated on the container. All feed made from cereals of any kind, whether pure, mixed or adulterated, 100 lbs per sack, excepting poultry feed, which may be packed in 100-lb, 50-lb, 25-lb or 10-lb net weight packages.

OREGON

The standard weights for flour are: barrel, 196 lbs net; ½ bbl, 98 lbs; ¼ bbl, 49 lbs; ⅛ bbl, 24½ lbs. The package must be labeled to show the net weight, and the use of the words "when packed" in the phrase "net weight when packed" is not allowable. The standard weight of a bale of flour is 98 lbs, or 10 sacks weighing 9.8 lbs net each. It is unlawful to sell in the sack flour in other than standard sack provided above.

PENNSYLVANIA

The state law requires that the quantity of the contents of all goods sold in package form must be plainly and conspicuously marked in terms of weight, measure or numerical count on the outside of the covering or container. On flour the following tolerances are permitted: on 49 lbs, 10 oz; on 24½ lbs, 6 oz; on 12 lbs, 4 oz; on 5 lbs, 3 oz; on 2 lbs, 2 oz.

RHODE ISLAND

The only requirement is that every package shall be correctly marked with the net weight of contents. The board of food and drug commissioners advises that, in package form, sizes should be ½, ¼ and 1/16 of a bag of flour.

SOUTH CAROLINA

The state law fixes the following net weights: flour, wood barrel, 196 lbs; wood ½ barrel, 98 lbs; 1 barrel sack, 192 lbs; ½ barrel sack, 96 lbs; ¼ barrel sack, 48 lbs; ⅛ barrel sack, 24 lbs; 1/16 barrel sack, 12 lbs; 1-32 barrel sack, 6 lbs. Flour also may be sold in packages of 76, 75, 72, 42, 40, 32, 28 and 26 oz. Allowances: on packages weighing 90 lbs and over, ¼ of 1 per cent; on packages smaller than 90 lbs, ½ of 1 per cent. Feed weight standards: 25, 50, 75, 100, 125, 150, 175 and 200 lbs.

SOUTH DAKOTA

A barrel of flour measured by weight must contain 196 lbs; ½ bbl, 98 lbs; ¼ bbl, 49 lbs; ⅛ bbl, 24½ lbs; 1/16 bbl, 12¼ lbs. Feed may be sold only in standard weight bags or packages of 25 lbs or multiples thereof, or in bulk. The net weight of contents must be shown on all feed packages in type as large as 10-point.

TENNESSEE

Flour and meal may be sold in packages of any size, provided the net weight is plainly and correctly stated on the packages. Millfeed may be sold only in packages having net weights of 5, 8½, 10, 25, 50, 75, 100, 125, 150, 175 or 200 lbs.

TEXAS

"Whenever any of the following articles shall be contracted for, sold or delivered, the weight per bushel or barrel or divisible merchantable quantities of a bushel, or barrel, shall be as follows: wheat flour, per bbl, 200 lbs; ½ bbl sack, 100 lbs; ¼ bbl sack, 50 lbs; ⅛ bbl sack, 25 lbs. Feedingstuff shall have the following standard net weights per sack or container: 100 lbs, or the following fractions thereof, three fourths, one half, one fourth, one sixth, one eighth, one tenth, one twelfth, sold in sacks of 143 lbs."

UTAH

On packages from 1 to 10 lbs in size, the net weight must be stated. In sacks, flour weights must be stated on the label, and the sacks should weigh 24, 48 and 98 lbs.

VERMONT

The state law requires that all packages containing foodstuffs must be plainly and conspicuously marked with the correct net weight, measure or numerical count of the contents, with reasonable variations permitted.

VIRGINIA

"All flour offered or exposed for sale in Virginia shall be in packages containing, by standard weight, 3 lbs, 6 lbs, 12 lbs, 24 lbs, 48 lbs, 98 lbs and 196 lbs of flour, with the net weight of the flour conspicuously stated on the main label on the outside of the package. Feedingstuffs may be sold only in standard weight bags or packages of 25, 50, 100, 140, 150 and 175 lbs, with the net weight of contents clearly marked on each package.

WASHINGTON

The state law merely provides that all commodities sold by weight or measure must be sold on the basis of true net weight or measure, the same being clearly marked on the outside of the package.

WEST VIRGINIA

The state law makes it unlawful to sell any commodity in package form unless the net quantity of the contents is plainly and conspicuously marked on the outside of the package. The prescribed weights for flour are 196 lbs to the barrel, 98 lbs to the half barrel, 49 lbs to the quarter barrel, 24½ lbs to the eighth barrel, and 12¼ lbs to the sixteenth barrel.

WISCONSIN

The state law requires that the net weight of contents be accurately and conspicuously marked on the outside of every flour or feed package (barrel or sack). A barrel of flour must contain 196 lbs net.

WYOMING

The state law requires the net weight on flour packages to be plainly marked. No specific weights for feed packages are definitely required, but they must have affixed a tag containing a plainly printed statement certifying the net weight. The label also must give the name and mailing address of the manufacturer or distributor.

Moisture Content of Flour

In July, 1926, the United States Department of Agriculture announced that flour may contain not more than 15 per cent moisture as determined by the vacuum method of the Association of Official Agricultural Chemists, under the food and drugs act.

The change in the standard is not an actual increase in the moisture permitted in flour, since the water oven method previously used to determine moisture did not give all of the water present within about 1½ per cent.

The food laws of some states provide that the standards and definitions adopted by the United States Department of Agriculture at once become the legal standards of these states. The laws of other states give general authority to food officials to adopt standards, and such officials usually adopt the federal standards.

The United States Department of Agriculture in a letter dated Jan. 17, 1928, with regard to changes in moisture content and weight of flour, said: "The standard is intended as a maximum, and no official tolerance above this amount has been adopted or considered. The basis for adjusting commercial differences with regard to weights is solely a matter of trade agreement. You of course, appreciate that the shipment of short-weight packages of flour is a violation of the federal food and drugs act. Discrepancies in weight due to differences in atmospheric conditions, such as changes in temperature and humidity, are provided for in the food and drugs act under a paragraph which states that such discrepancies due exclusively to differences in atmospheric conditions in various places, and which unavoidably result from the ordinary and customary exposure of the packages to evaporation or to the absorption of water, shall be allowed.

Flour Package for Orient

Pacific Coast mills pack soft wheat flour and blends of hard and soft wheat flour for export to the Orient in 49-lb cotton sacks. Hard wheat flour for the Philippines is packed in 98-lb cotton sacks, as is some hard wheat flour exported to northern China.

Flour made by Chinese and Japanese mills is packed in 50-lb sacks.

December 1908 1931

PURE FOOD COMMITTEE DECIDES AGAINST FLOUR BLEACHING

NOTABLE TRADE EVENTS

STEEL rolls introduced in Minnesota flour mills. 1874.

Minneapolis milling capacity, 1,000 run of stone. 1874.

Great flour mill fire at Rochester, N. Y. 1887.

Millers' Russian Relief Movement, to send flour to starving peasants of Russia, organized. 1891.

Decision against flour bleaching, leading to 12 years of uncertainty on the subject, promulgated by James Wilson, Secretary of Agriculture. 1908.

Record output of flour in Minneapolis, 18,541,650 bbls. 1916.

New regulations promulgated by Milling Division of Food Administration. Standard flour established. 1917.

Removal of all Food Administration flour regulations, effective on date of order. 1918.

Federal standards for bread promulgated. 1922.

Brief of the case against the Continental Baking Corporation submitted to Congress by The Northwestern Miller. 1924.

Senate judiciary committee begins investigation of the so-called "bread trust" in the United States. 1926.

General Mills, Inc., purchases the Kell milling properties at Amarillo, Vernon, Wichita Falls and Waco, Texas, and at Oklahoma City and Perry, Okla., and the properties of the El Reno (Okla.) Mill & Elevator Co. 1928.

E. H. Hogueland elected president of the Southwestern Millers' League. 1928.

W. G. Kellogg appointed head of the Farmers' National Grain Corporation. 1929.

Day of the Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day of the Week		T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T
Minneapolis	Sun Rises H. M.	7 10	7 11	7 12	7 13	7 14	7 15	7 16	7 17	7 18	7 19	7 20	7 21	7 21	7 22	7 23	7 23	7 24	7 25	7 26	7 26	7 26	7 27	7 27	7 28	7 28	7 29	7 29	7 29	7 29	7 30	7 30
Mean Time	Sun Sets H. M.	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 28	4 29	4 29	4 29	4 29	4 30	4 30	4 31	4 31	4 32	4 32	4 33	4 34	4 34	4 35	4 36	4 36	4 37	4 38

Pacific Coast—Grain Handling

Originally the wheat grown in the Pacific Coast states was handled only in sacks. Bulk handling increased slowly until 1916, when the high price of grain bags and an awakening to the economy and other advantages of bulk handling gave great impetus to this method. During the years 1916-18 a number of bulk grain elevators were erected at country points by the mills, grain concerns and farmers' organizations, the port mills increased their bulk handling facilities, and the port commissioners of Seattle and Portland erected large bulk grain elevators.

During the crop year 1921-22 bulk shipments began. Since then export shipments of bulk wheat have rapidly increased, and now practically all of the wheat exported from the Pacific Northwest is in bulk, though about 80 per cent of the wheat shipped from the interior to tidewater is in sacks.

Definitions of Grain Products

The Secretary of Agriculture has announced the following definitions of grain products as a guide for officials in enforcing the food and drugs act:

Meal is the clean, sound product made by coarsely grinding grain.

Graham flour is unbolted wheat meal.

Flour is the fine, clean, sound product made by bolting wheat meal. It contains not more than 15 per cent of moisture*, not less than 1.25 per cent of nitrogen, not more than 1 per cent of ash, and not more than 0.5 per cent of fiber.

Gluten flour is the clean, sound product made from wheat flour by the removal of a large part of the starch, and contains not more than 10 per cent of moisture, and, calculated on a water-free basis, not less than 7.1 per cent of nitrogen, not more than 56 per cent of nitrogen-free extract (using the protein factor 5.7), and not more than 44 per cent of starch (as determined by the diastase method).

Ground gluten is the clean, sound product made from wheat flour by the almost complete removal of starch, and contains not more than 10 per cent of moisture, and, calculated on a water-free basis, not less than 14.2 per cent of nitrogen, not more than 15 per cent nitrogen-free extract (using the protein factor 5.7), and not more than 5.5 per cent of starch (as determined by the diastase method).

Purified middlings is the clean, sound, granular product obtained in the commercial process of milling wheat, and is that portion of the endosperm retained on a 10 XX bolting cloth. It contains no more flour than is consistent with good commercial practice, nor more than 15 per cent of moisture.

Semolina is the purified middlings of durum wheat.

Farina is the purified middlings of hard wheat other than durum.

Maize meal, corn meal, Indian corn meal, is meal made from sound maize grain, and contains not more than 14 per cent of moisture, not less than 1.12 per cent of nitrogen, and not more than 1.6 per cent of ash.

Oatmeal is meal made from hulled oats, and contains not more than 12 per cent of moisture, not more than 1.5 per cent of crude fiber, not less than 2.24 per cent of nitrogen, and not more than 2.2 per cent of ash.

Rye flour is the fine, clean, sound product made by bolting rye meal, and contains not more than 13.5 per cent of moisture, not less than 1.36 per cent of nitrogen, and not more than 1.25 per cent of ash.

Buckwheat flour is bolted buckwheat meal, and contains not more than 12 per cent of moisture, not less than 1.28 per cent of nitrogen, and not more than 1.75 per cent of ash.

*By "moisture" is meant the loss in weight resulting from drying in accordance with the vacuum method of the Association of Official Agricultural Chemists.

BREAD WEIGHT LAWS

Following is a brief summary of the laws of states regulating the weight of bread loaves, as reported to The Northwestern Miller, Jan. 1, 1931:

Alabama.—The section of the agricultural code of the state regulating bread weights has been declared unconstitutional. It is planned to amend the section during 1931, so as to make it operative.

Arizona.—Loaf of bread must have stamped thereon, or labeled, name of manufacturer and net weight, with an allowance of 5 per cent for bread one day old, and 10 per cent for bread two days old. All loaves over three days old must be sold as stale bread.

Arkansas.—Correct net weight must be stamped on the bread package or loaf.

California.—All loaves, six hours after baking, must weigh not less than 16 oz. Bread also may be sold in 24-oz loaves, and in multiples of 16 oz and 24 oz. Tolerance of 1 oz for small loaves and 2 oz for large loaves allowed.

Colorado.—Weight must correspond to amount stated on loaf or label.

Connecticut.—Standard weights of bread are 1, 1½, or multiples of 1 lb. Tolerance of 1 oz allowed 12 hours after delivery by baker. Weight must be marked on loaf.

Delaware.—Loaves of bread must weigh at least 16 oz.

Florida.—No definite weights for bread. Correct net weight must be shown.

Georgia.—Loaves must be marked so as to show weight.

Idaho.—Standard loaf of bread must weigh 16 oz, 24 hours after baking. If it does not weigh this amount, the correct weight must be shown on the label.

Illinois.—No specific weights for bread. Net weight of loaf must be shown on label.

Indiana.—Standard bread weights: ½, 1, 1½, 2, or some multiple of 1 lb. Tolerance of 1 oz over or under standard weights allowed. Net weight must be stated on label.

Iowa.—Standard bread weights: ½, 1, 1½, 1½ or multiples of 1 lb. Net weight of loaf must appear on label.

Kansas.—Standard weight of loaf 2 lbs. Bread must be sold only in whole, half and quarter loaves. Every loaf which does not show the full standard weight shall be plainly labeled with the exact weight.

Louisiana.—No standard weight for bread loaves.

Maine.—Any size loaf may be sold in Maine, provided that the net weight is marked on the outside of the wrapper.

Maryland.—There is no law prescribing the weights of bread.

Massachusetts.—Standard bread weights: 1, 1½, or multiples of 1 lb. Standards do not apply to loaves bearing in a plain position a plain statement of the weight of loaf and the manufacturer thereof.

Michigan.—No law specifying the weights for bread.

Minnesota.—Standard bread weights: 1, 1½, or multiples of 1 lb. Applies to each unit of twin loaf, but twin loaf may weigh 16 or 24 oz if so marked.

Missouri.—No law specifying bread weights. All bread must be labeled to show the net weight and name of manufacturer.

Montana.—Standard bread weights, net, eight hours after baking: 1, 1½, or multiple of 1 lb. Tolerance of 1 oz allowed.

Nebraska.—Bread may be sold in any size loaf, provided that it has the name of the food product and net weight printed in a conspicuous place on the outside of the wrapper. If bread is not wrapped, there are no requirements.

Nevada.—Standard bread weight is 1 lb, and no label is required. If loaves weigh more or less than 1 lb, the correct weight and name of manufacturer must be shown on the label.

New Hampshire.—It is unlawful to sell bread unless each loaf is inclosed in a wrapper plainly showing its weight and the name of its manufacturer.

New Jersey.—No specific legal weights of loaves of bread.

New York.—Standard bread weights: 1, 1½, or multiples of 1 lb. Each unit of a multiple loaf must conform to this weight requirement. Does not apply to loaves bearing plain statement of net weight of loaf and manufacturer thereof.

North Carolina.—Bread may be sold in loaves of any size, provided that all wrapped bread must bear a label showing the weight.

North Dakota.—Standard bread weights: 16 oz, 24 oz, or any multiple of 16 oz. Weight shall apply to each unit of twin or multiple loaves.

Ohio.—The Ohio bread weight law recently was declared unconstitutional. Bakers can sell any size loaf they desire, with or without labeling it. If they label it, the loaf cannot contain less than the weight stated on the label, but may contain more.

Oklahoma.—No law providing standard bread weights.

Oregon.—Standard bread weights: net, 12 hours after baking: 1, 1½, or multiples of 1 lb. Variation allowed to the extent of 1 oz, but average of 25 loaves shall not be less than the weight prescribed.

Pennsylvania.—A law of 1791, still on the statute books, provides that a loaf of bread must weigh 16 oz, but it has not been enforced for years.

Rhode Island.—If a loaf of bread is wrapped, the net weight of the loaf must be stated on the wrapper.

South Carolina.—All wrapped bread sold must be labeled with the brand name and net weight of the bread.

South Dakota.—Standard bread weights: 1, 1½ and multiples of ½ lb. All bread must be wrapped and must be labeled with a statement showing either net weight or stating that the loaf is of standard weight.

Tennessee.—No bread weight law. All wrapped bread must be labeled with the net weight of contents.

Texas.—Standard bread weights: 1 lb, 1½, or multiples of 1 lb. Variations of 1 oz higher or lower, 24 hours after baking, are allowed.

Utah.—Net weight of loaf and manufacturer's name must appear on label.

Vermont.—No standard weights for bread. All loaves must have the net weight shown on the wrapper.

Virginia.—No legal weights of bread. Bread must be labeled to show the correct net weight, and name and address of manufacturer.

Washington.—Standard bread weights: 1, 1½ and multiples of those weights.

West Virginia.—No bread weight law.

Wisconsin.—Standard bread weights: 1, 1½, or multiples of 1 lb.

Wyoming.—A loaf may be of any size, but must be labeled with the name and address of the manufacturer or distributor, together with the net weight of the loaf.

Canada—Net Weight Law

Canadian law requires that flour packed in bags or any other form of container must show by actual weight when packed 196 lbs of flour to the barrel, 98 lbs to the half barrel, etc. The weight of the package may not be included.

LAW CONCERNING MIXED FLOUR

Sec. 35. That for the purposes of this act, the words "mixed flour" shall be taken and construed to mean the food product resulting from the grinding or mixing together of wheat, or wheat flour, as the principal constituent in quantity, with any other grain, or the product of any other grain, or other material, except such material, and not the product of any grain, as is commonly used for baking purposes: Provided, That when the product resulting from the grinding or mixing together of wheat or wheat flour with any other grain, or the product of any other grain, of which wheat or wheat flour is not the principal constituent as specified in the foregoing definition, is intended for sale, or is sold, or offered for sale as wheat flour, such product shall be held to be mixed flour within the meaning of this act.

Sec. 36. That every person, firm, or corporation, before engaging in the business of making, packing, or repacking mixed flour, shall pay a special tax at the rate of $12 per annum, the same to be paid and posted in accordance with the provisions of sections 3242 and 3239 of the Revised Statutes, and subject to the fines and penalties therein imposed for any violation thereof.

Sec. 37. That every person, firm, or corporation making, packing, or repacking mixed flour shall plainly mark or brand each package containing the same with the words "mixed flour" in plain black letters not less than two inches in length, together with the true weight of such package, the names of the ingredients composing the same, the name of the maker or packer, and the place where made or packed. In addition thereto, such maker or packer shall place in each package a card not smaller than two inches in width by three inches in length, upon which shall be printed the words "mixed flour," together with the names of the ingredients composing the same, and the name of the maker or packer, and the place where made or packed. Any person, firm, or corporation making, packing, or repacking mixed flour hereunder, failing to comply with the provisions of this section, shall be deemed guilty of a misdemeanor, and upon conviction shall be punished by a fine of not less than $250 and not more than $500, or be imprisoned not less than 60 days nor more than one year.

Sec. 38. That all sales and consignments of mixed flour shall be in packages not before used for that purpose; and every person, firm, or corporation knowingly selling or offering for sale any mixed flour in other than marked and branded packages, as required by the provisions of this act relating to the manufacture and sale of mixed flour, or who packs in any package or packages any mixed flour in any manner contrary to the provisions relating to the manufacture and sale of mixed flour of this act, or who falsely marks or brands any package or packages containing mixed flour, or unlawfully removes such marks or brands, shall, for each such offense, be punished by a fine of not less than $250 and not more than $500, or by imprisonment not less than 30 days nor more than one year.

Sec. 39. That in addition to the branding and marking of mixed flour as herein provided, there shall be affixed to the packages containing the same a label in the following words: "Notice.—The (manufacturer or packer, as the case may be) of the mixed flour herein contained has complied with all the requirements of law. Every person is cautioned not to use this package or label again or to remove the contents without destroying the revenue stamp thereon, under the penalty prescribed by law in such cases." Every person, firm, or corporation failing or neglecting to affix such label to any package containing mixed flour made or packed by him or them, or who removes from any such package any label so affixed, shall, upon conviction thereof, be fined not less than $50 for each label so removed.

Sec. 40. That barrels or other packages in which mixed flour may be packed shall contain not to exceed 196 lbs; that upon the manufacture and sale of mixed flour there shall be levied a tax of 4c per bbl or other package containing 196 lbs or more than 98 lbs; 2c on every half barrel or other package containing 98 lbs or more than 49 lbs; 1c on every quarter barrel or other package containing 49 lbs or more than 24½ lbs; and ½c on every ¼ bbl or other package containing 24½ lbs or less, to be paid by the person, firm, or corporation making or packing said flour. The tax levied by this section shall be represented by coupon stamps, and the provisions of existing laws governing the engraving, issue, sale, accountability, effacement, and destruction of stamps relating to tobacco and snuff shall, so far as applicable, be made to apply to stamps provided in this section: Provided, That when mixed flour, on the manufacture and sale of which the tax herein imposed has been paid, is sold and then repacked without the addition of any other material, such repacked flour shall not be liable to any additional tax; but the packages containing such repacked flour shall be branded or marked as required by the provisions of section 37 of this act, and shall contain the card provided for in section 37 hereof; and in addition thereto the person, firm, or corporation repacking mixed flour shall place on the packages containing the same a label in the following words: "Notice.—The contents of this package have been taken from a regular statutory package, upon which the tax has been duly paid." Any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than $250 and not more than $500, or by imprisonment not to exceed one year.

Sec. 41. That whenever any person, firm, or corporation sells, consigns, or removes for sale, consignment, or consumption any mixed flour upon which the tax required by this act has not been paid, it shall be the duty of the Commissioner of Internal Revenue, for a period of not more than one year after such sale, consignment, or removal, upon satisfactory proof, to estimate the amount of tax which should have been paid and to make an assessment therefor and certify the same to the collector of the proper district. The tax so assessed shall be in addition to the penalties imposed by this act for an unauthorized sale or removal.

Sec. 42. That all mixed flours imported from foreign countries shall, in addition to any import duties imposed thereon, pay an internal revenue tax equal in amount to the tax imposed under section 40 of this act, such tax to be represented by coupon stamps, and the packages containing such imported mixed flour shall be marked, branded, labeled and stamped as in the case of mixed flour made or packed in the United States. Any person, firm, or corporation purchasing or receiving for sale or repacking any such mixed flour which has not been branded, labeled, or stamped, as required by this act, or which is contained in packages which have not been marked, branded, labeled, or stamped, as required by this act, shall, upon conviction, be fined not less than $50 nor more than $500.

Sec. 43. That any person, firm, or corporation knowingly purchasing or receiving for sale or for repacking and resale any mixed flour from any maker, packer, or importer, who has not paid the tax herein provided, shall for each offense be fined not less than $50 and forfeit to the United States all the articles so purchased or received, or the full value thereof.

Sec. 44. That mixed flour may be removed from the place of manufacture or from the place where packed for export to a foreign country without the payment of tax or affixing stamps or label thereto, under such regulation and the filing of such bond and other security as the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury, may prescribe. Every person, firm, or corporation who shall export mixed flour shall plainly mark on each package containing the same the words "mixed flour," and the names of the ingredients composing the same, the name of the maker or packer, and the place where made or packed, in accordance with the provisions of sections 36 to 45, inclusive, of this act.

Sec. 45. That whenever any package containing mixed flour is emptied it shall be the duty of the person in whose possession it is to destroy the stamp thereon. Any person disposing of such package without first having destroyed the stamp or mark or marks thereon shall, upon conviction, be punished by a fine not exceeding the sum of $25.

REVISED REGULATIONS

The Department of the Treasury has issued the following regulations for the enforcement of the mixed flour law. The articles omitted from the following list deal chiefly with forms and methods of accounting required by the department, and may be secured by addressing the Commissioner of Internal Revenue.

Article 1. The term "mixed flour" includes (1) any milled food product containing more than 50 per cent of wheat or wheat flour and any quantity of any other grain or the product of any other grain or any other material except such material as itself a product of grain as is commonly used for leavening or similar baking purposes, regardless of the name under which it is known or under which it is sold or offered for sale, and (2) any milled food product composed of wheat or wheat flour in a proportion not exceeding 50 per cent and any other grain, or the product of any other grain which is intended for sale, or sold or offered for sale as "wheat flour" or merely as "flour" without descriptive prefix; but does not include mixtures containing not more than 50 per cent of wheat or wheat flour sold (1) as mixtures of wheat or wheat flour and other grain or the product of other grain or substitute therefor; (2) as the product of some grain other than wheat or (3) under some special distinctive or descriptive name not indicating the product to be "wheat flour" or "flour."

Art. 2. The addition to wheat flour, either in milling or afterwards, of baking powder, yeast, phosphates, or other material or substance not derived from grain for leavening purposes, does not constitute the product "mixed flour" within the meaning of the act.

Art. 3. Every person, firm, or corporation engaged in manufacturing or producing by grinding or mixing, or both, any product coming within the scope of the term "mixed flour" for sale, shall be deemed a maker or packer of mixed flour.

Art. 4. Every person, firm, or corporation packing mixed flour produced by others for sale from the manufacturer's original packages shall be regarded as a repacker.

SPECIAL TAXES

Art. 9. Every maker, packer, or repacker of mixed flour, before commencing business (or at least within the month in which liability to the special tax commences), must register with the collector of the district in which the business is to be carried on his name or style, place of residence, business, and the place where such business is to be carried on, and make return, duly signed and sworn to, and procure a special-tax stamp, which he is to place and keep conspicuously posted in his establishment or place of business; and on the 1st day of July in each year, if continuing business, he will again so register, make return, and procure a new special-tax stamp and post it as above stated. (Secs. 3233 and 3239, R. S.)

The special tax is at the rate of $12 per annum.

No special tax is required to be paid by dealers in mixed flour, either wholesale or retail, who do not make, pack, or repack mixed flour for sale.

A maker or packer of mixed flour, who packs only the product of his own mill or factory at the place of manufacture, in original tax-paid packages, is not required to pay more than one special tax, but a maker or packer who also repacks mixed flour from original packages put up by others is required to pay an additional special tax as a repacker.

Art. 12. The law requires that mixed flour shall be put up in packages not before used for such purpose, but does not proscribe the nature of the packages to be used. It provides that each package shall be plainly marked or branded with the words "mixed flour" in plain black letters not less than 2 inches in length and, in addition to this, the true weight of the package, the names of the ingredients composing the same, the name of the maker or packer, and the place where made or packed.

It is hereby prescribed that the width of the letters or figures (other than the words "mixed flour") in the brand upon the outside of the package shall not be less than three quarters of an inch over all, with quarter inch stems.

Art. 13. Precisely the same information, exclusive of weight of package, must be printed upon a white card not smaller than 2 inches in width by 3 inches in length, which must be placed inside the package, unfolded. The size of the letters printed on the card must be such as to render them plainly legible.

Art. 14. If a manufacturer desires to place his name or advertising matter of any kind upon the package, he may do so, provided it be put upon some part of the package remote from the government brand. One head of each barrel or half barrel will be reserved for the purposes of the government, and no other matter may be placed thereon. Private marks must therefore be placed upon the other end or upon the sides of the package. In the case of bags they must be placed upon the side opposite to the government brand. They must in no case be of such size or nature as to overshadow or subordinate the brand prescribed by law and by these regulations, and they must not be of such character as to deceive the consumer as to the contents of the package.

Art. 15. If a maker, packer, or repacker desires to place his card or advertising matter of any kind inside the package, he is permitted to do so, but such card or other matter must not in any case be larger than the government card required by article 13 or materially increase the weight or bulk of the package, nor be of such character as to tend to deceive the consumer as to the contents thereof.

Art. 23. Mixed flour may be packed in cartons or small packages without tax stamps being affixed thereto, provided such cartons or packages are in turn placed in cases or boxes (each holding not more than 196 lbs net) bearing the proper tax stamps required by section 40 of the act, and such cases or boxes are branded and marked and contain the card required by section 37 (Regulations, art. 13), and bear the label prescribed by section 39 (Regulations, art. 18).

Upon each carton or small package must be printed or affixed by label the words "Mixed flour," together with the names of the ingredients composing the same, the name of the maker or packer, and the place where made or packed, and in addition to this the following notice:

Notice.—This package is sold from a properly stamped package of mixed flour. All persons are warned not to retail from this package or use it for selling or consigning mixed flour again.

The space reserved on the carton or small package for the above printing or the affixed label bearing the same must be not less than 6 square inches in size and must have no other printing thereon of any kind.

Hamburg Friendly Arbitration

Disputes over shipments in Germany are usually settled by what is known as "Hamburg Friendly Arbitration." The arbitration is held in the usual way, each side appointing an arbitrator, and in the event of the two arbitrators not agreeing they appoint a third to act as umpire.

The fees and charges are based sometimes on the value of the shipment, sometimes on the amount of the claim, as follows:

1. A percentage is charged, ranging from 1½ to 3 per cent on the amount of the invoice.
2. A percentage is charged, ranging from 1½ to 3 per cent on the allowance claimed.
3. When the dispute concerns shipment out of time, or where the documents are in order, the fees are based on the value of the invoice.

A government stamp is affixed to the awards to render them valid, which is a heavy additional cost, and in many cases "Hamburg Friendly Arbitration" is a very expensive method of settling disputes.

London—Rye Terms

There is a contract form applying to grain, so designated. One of the numerous clauses reads:

"Slightly dry warmth not injuring the grain not to be objected to, but damage by sea water or otherwise to be taken by buyer with an allowance for deterioration calculated on percentage basis on contract price to be fixed by arbitration in London according to rules indorsed on contract."

Decimal Weight Bill

The decimal weight bill has been considered by several congressional sessions in the past few years. Originally, it was introduced by Congressman Ashbrook, of Ohio, as a result of action by a meeting of directors and delegates of the Millers' National Federation in October, 1917. It expired when Congress adjourned on March 4, 1919.

Later, on July 17, 1919, it was introduced by A. H. Vestal, representative from Indiana, who was then chairman of the committee on coinage, weights and measures. In that year it was favorably recommended, and actually passed the House.

On April 22, 1921, Mr. Vestal again introduced the decimal weight bill, and, somewhat amended, in December of the same year. The committee reported favorably upon the measure, and the bill remained on the House calendar for weeks, but was caught in the legislative jam at the end of the session. It was again brought up at the next session, failing to pass the House.

Mr. Vestal reintroduced the bill on Dec. 9, 1925, and a companion measure was introduced in the Senate by Charles Curtis, senator from Kansas.

The measure as introduced provided that "the standard of weights for the following wheat mill, rye mill, and corn mill products, namely, flour, semolina, hominy, grits, and meals, and all commercial feedingstuffs, shall be 100 lbs avoirdupois, and the standard measure for such commodities, when the same are packed for sale, shipped, sold, or offered for sale in packages of 5 lbs or over, shall be a package containing net avoirdupois weight 100 lbs, or a multiple of 100 lbs, or one of the following fractions thereof, 5, 10, 25, or 50 lbs; and, in addition, for wheat flour, rye flour, semolina, and corn flour only, 140 lbs; and for commercial feedingstuffs only, 60 or 80 lbs; each of which packages shall bear a plain, legible and conspicuous statement of the net weight contained therein."

Another section of the act reads: "The provisions of this act shall not apply to packages of the following wheat mill, rye mill, or corn mill products, namely, flour, semolina, hominy, grits, or meals, or any commercial feedingstuffs when intended for export to any foreign country and packed according to the specifications or directions of the foreign purchaser, agent, or consignee"; but if these products shall, in fact, be sold or offered for sale for domestic use or consumption then this exception "shall not exempt said articles from the operation of any of the other provisions of this act": provided, however, that when packages of such products, originally intended for export, have been packed in the packages customarily used in any foreign country, and it becomes necessary to offer these for sale or to sell them for domestic consumption, then such export packages may be sold for domestic use or consumption by special contract, if approved by the Secretary of Agriculture.

The decimal weight bill, H. R. 9040, received a favorable report from the House committee on coinage, weights and measures, Jan. 23, 1928. It passed the House of Representatives on Feb. 29, 1928.

H. R. 9040, when it went to the Senate, was referred to the Senate committee on agriculture and forestry, which substituted for it the Curtis bill, S. 2864, reported favorably to the Senate on March 6, 1928. No action was had and the bill automatically expired with the passing of the Seventieth Congress.

In the Seventy-first Congress, Representative Fred A. Britten of Illinois, Oct. 28, 1929, introduced two joint resolutions, H. J. R. 124 and H. J. R. 125, which were referred to the House committee on coinage, weights and measures. This committee has not held a meeting to date and has not, therefore, indicated whether or not it will hold hearings on the two resolutions.

Representative Britten says he expects the committee to hold hearings this session and that he proposes to press for action.

H. J. R. 124 reads: "Resolved, By the Senate and House of Representatives of the United States of America in Congress assembled, That the United States Department of Commerce is authorized to establish commodity quantity units for general use in merchandising after 1935, standardizing the yard to the meter, the quart to the liter, the pound to 500 grams decimally divided."

H. J. R. 125 provides: "That the Secretary of Commerce is authorized and directed to conduct a thorough investigation and study to determine the advantages and possible disadvantages of the general use in the United States of the metric system of weights and measures, this investigation to include a study of the progress of international standardization on the metric basis to date. Such findings as may be made shall be incorporated in a report and made available to members of Congress six months from the passage of this joint resolution."

All of the decimal weight bills appear to have been abandoned, having given way to metric system bills. All of the latter, it appears, will get no hearing for some time.

Italy—Terms of Sale

The basis of quotations is per 100 kilos. Packages required are 140-lb sacks or 2-kilo jutes, and sometimes 50-kilo cotton. For payment it is essential that an irrevocable credit be established by cable in New York by the purchaser at the time of sale and drafts are drawn at sight in dollars on the bank where the irrevocable credit has been established. All grades of hard wheat flour are required, but the chief demand is for the lower ones. There is practically no demand for soft wheat flours.

UNIFORM FEED REGISTRATION

The Millers' National Federation has been represented on the committee appointed by the Association of Feed Control Officials of the United States to draft uniform labels for feed packages and a uniform application blank for registration of foods.

Practically all state officials who have approved the blank will accept the registrations on it.

The uniform application blank will be furnished by feed control officials, and will be printed in duplicate, the applicant filling out the application blank and mailing original and carbon copy to the feed control official of the state; if approved, the feed control official will date and sign one copy, giving it a number, and return it to the applicant, keeping the other copy for his records. The copy returned to applicant then becomes the certificate of registration. There will be a slight variation in the application blanks of some states, to meet particular requirements of their state laws.

Extreme care must be exercised by the applicant to insert in the proper place in the application blank an exact copy of the wording he proposes to use on his labels; he should then see to it that there is no deviation from this wording, as the feed control official has an exact copy of the label, and a deviation from that will invalidate his registration.

The standard labels are all modifications of a single form, which, for mixed feeds in general, is as follows:

100 lbs net
EXCELSIOR DAIRY FEED
Manufactured by (or for)
JOHN DOE FEED MILLS,
Doeville, Kansas
Guaranteed Analysis
Crude protein not less than .. per cent
Crude fat not less than .. per cent
Crude fiber not more than .. per cent
Carbohydrates
Nitrogen-free extract not less than .. per cent
Ingredients: Corn gluten feed, cottonseed meal, wheat bran, wheat shorts, ground corn, alfalfa meal, and oat meal mill by-product (oat hulls, oat shorts).

For wheat bran or shorts with screenings, the words "Wheat Bran (or Shorts) with Screenings" replace the name of the feed, and the ingredients are listed as "Wheat bran and ground (or unground) wheat screenings not exceeding mill-run." For wheat bran, standard middlings, flour middlings, red dog flour, brown shorts, gray shorts, white shorts or white middlings, wheat mixed feed, and wheat bran and standard middlings, the name of the product appears in place of the line "Excelsior Dairy Feed," and the ingredients are the same as the name of the product. For poultry feed the name of the feed is followed by the line "With Grit and/or Charcoal," and the ingredients are listed in the following style: "Ingredients: Wheat gray shorts, wheat bran and wheat screenings, corn gluten feed, alfalfa meal, granulated meat scraps, and not to exceed .. per cent of .. grit and .. per cent of charcoal."

The form required for the uniform registration blank is as shown below.

European Arbitration Methods

The methods of settling disputes by arbitration in the principal flour importing centers of Europe are set forth below.

ENGLAND, SCOTLAND AND IRELAND

According to the rules contained in the London Flour Trade Association's American flour contract.

HOLLAND

According to the rules laid down by the Amsterdam and Rotterdam flour trade associations.

HAMBURG

It is generally stipulated that disputes should be decided by what is known as "Hamburg friendly arbitration," in which the fees charged by the arbitrators are based on the value of the shipment in dispute. In some cases this proves very costly. Those interested in the flour import trade in Germany are attempting to draw up a contract on practically the same lines as the London flour contract, but as yet nothing definite has been decided.

DENMARK AND NORWAY

The usual method is for the buyer of the goods in dispute and the mill's agent each to choose an arbitrator, and if the arbitrators cannot agree to call in a third party as umpire.

SWEDEN

Disputes are referred to a board of arbitrators.

Uniform Registration Blank for Commercial Feedingstuffs

(Copy to Be Retained by Feed Control Official)

Name of Applicant.....
Address .....

Registration No.....
Date .....

(Applicant NOT to fill in above)

....,192..

.....

Application is hereby made for the registration of a brand of COMMERCIAL FEED under the trade name.....

in the State of.....for a period beginning with the actual date of registration and ending.....192 .., under a label, guarantee and declaration of which the following is an exact copy:

Make an Exact Copy of the Upper Part of Your Tag In This Space.

Guaranteed Analysis

Crude Protein, not less than.....	Per Cent
Crude Fat, not less than.....	Per Cent
Crude Fiber, not MORE than.....	Per Cent
Carbohydrates.....	
Nitrogen-free Extract, not less than.....	Per Cent
Ingredients:	

State of.....
County of..... } S. S.

..... being duly sworn, deposes and says that the information appearing above is true and correct in every respect; that each and every package and bulk shipment will be labeled as shown (except that shipments in packages and in bulk of different net weight may be made); that the above declaration is the guarantee of the applicant as to the chemical and physical composition of the material named; that this registration shall not apply to sales of this material made before or after the dates above named; and that this application is made for and on behalf of.....

located at.....State of.....
Subscribed and sworn to before me this

.....day of.....192.. .....
(Name of Applicant)

....
Notary Public. (Official Position of Person Signing)

(Applicant NOT to fill in below this line)

CERTIFICATE OF REGISTRATION

This certifies that the above named applicant is hereby licensed to sell one brand of Commercial Feed in the State of.....for a period ending..... when sold, offered or exposed for sale under the brand name, guaranteed analysis and declaration of ingredients exactly as they appear above.

No.....Date.....192.. .....
.....

FOREIGN QUOTATIONS CONVERSION

By means of the accompanying table it is possible to convert quotations in shillings per sack of flour (280 lbs) or per quarter of wheat (480 lbs), corn (480 lbs), maslin (480 lbs), rye (480 lbs), oats (320 lbs) into United States gold per barrel (196 lbs) in the case of flour and per bushel (of standard United States weight) in the case of grain. To do this look in the first column and obtain the rate of exchange then current; next find the factor which deals with the commodity in which you are interested, which is opposite the rate of exchange prevailing. Divide the number of shillings by the factor thus found and the result will be the corresponding quotation in dollars and cents per barrel or bushel.

Example 1.—United Kingdom quotes flour at 52s per sack when the sterling exchange is $4.50. Dividing 52 by 6.35, the factor indicated in the table, the quotient is $.19, which is the corresponding quotation in dollars and cents per barrel, viz., $8.19 bbl.

Example 2.—The United Kingdom quotes oats at 16s per qr when the sterling exchange is at $4.80. Dividing 16 by 41.7, the factor indicated in the table, the quotient is .38, which is the corresponding quotation in dollars and cents per bushel, viz., 38c bu.

Conversely, to translate United States quotations per barrel or bushel into shillings per sack or quarter, multiply the number of dollars and cents (with the cents as decimal fractions of the dollars) by the factor opposite the current rate of exchange and under the heading of the commodity in which you are dealing, and the result will be the quotation in shillings per sack or quarter.

Example 3.—The United States quotes flour at $9.80 bbl when the exchange stands at $4.75. Multiplying 9.80 by 6.01, the factor indicated in the table, the result is 58.89, which is the corresponding quotation in shillings per sack, viz., 58s 11d per 280 lbs.

To convert quotations from any nation using the metric system, that is, any country which quotes in coinage the unit of which is divided into 100 parts, such as francs, guilders, marks, lire, pesos, etc., and quotes in quantities of 100 kilos, sometimes known as quintals, a similar procedure is followed. Divide the number of francs, guilders or other unit which is given as the price of 100 kilos by the factor found in the table opposite the rate of exchange then current per franc, guilder or other unit and under the heading of the commodity in which you are interested, and the result will be the corresponding quotation in dollars and cents per barrel or bushel.

Example 4.—Holland quotes flour at 28 fl when the guilder is quoted at 32½c. Dividing 28 by 3.47 (intermediate between 3.50 and 3.44, the factors shown for exchange at 32c and 32½c, respectively), the quotient is 8.07, which is the corresponding value of the flour in dollars and cents per barrel, viz., $8.07 bbl.

Conversely, to translate United States quotations per barrel or bushel into the currency units of any other nation using the metric system per 100 kilos, multiply the number of dollars and cents (with the cents as a decimal fraction of the dollars) by the factor opposite the current rate of exchange and under the heading of the commodity in which you are dealing. The result will be the quotation in francs, marks, guilders or other unit per 100 kilos.

Example 5.—Corn is quoted in the United States at 60c bu when the German mark exchange stands at 22c. Multiplying .60 by 17.9, the factor shown under the heading, corn, when the exchange stands at .22, the result is 10.74, which is the corresponding quotation in marks per 100 kilos, viz., 10.74 marks per 100 kilos.

United Kingdom exchange at—	Flour per bbl	FACTOR Per bu— Wheat	Rye, flaxseed and corn	Oats
$4.60 ...	7.14	40.0	42.9	50.0
4.02½ ...	7.10	39.7	42.5	49.7
4.05 ...	7.06	39.5	42.3	49.4
4.07½ ...	7.01	39.3	42.1	49.1
4.10 ...	6.97	39.0	41.8	48.8
4.12½ ...	6.92	38.8	41.6	48.5
4.15 ...	6.88	38.5	41.3	48.2
4.17½ ...	6.84	38.3	41.1	47.9
4.20 ...	6.80	38.1	40.8	47.6
4.22½ ...	6.75	37.8	40.6	47.3
4.25 ...	6.72	37.6	40.3	47.0
4.27½ ...	6.68	37.4	40.0	46.8
4.30 ...	6.64	37.2	39.8	46.5
4.32½ ...	6.60	37.0	39.6	46.2
4.35 ...	6.56	36.8	39.4	46.0
4.37½ ...	6.52	36.6	39.2	45.7
4.40 ...	6.49	36.4	39.0	45.4
4.42½ ...	6.45	36.2	38.7	45.2
4.45 ...	6.42	36.0	38.5	45.0
4.47½ ...	6.38	35.8	38.3	44.7
4.50 ...	6.35	35.6	38.0	44.4
4.52½ ...	6.31	35.4	37.9	44.2
4.55 ...	6.28	35.2	37.7	43.9
4.57½ ...	6.24	35.0	37.5	43.7
4.60 ...	6.21	34.8	37.3	43.5
4.62½ ...	6.17	34.6	37.1	43.2
4.65 ...	6.14	34.4	36.9	43.0
4.67½ ...	6.10	34.2	36.7	42.8
4.70 ...	6.07	34.0	36.5	42.6
4.72½ ...	6.04	33.8	36.3	42.3
4.75 ...	6.01	33.6	36.1	42.1
4.77½ ...	5.98	33.4	35.9	41.9
4.80 ...	5.95	33.3	35.7	41.7
4.82½ ...	5.92	33.1	35.5	41.4
4.85 ...	5.89	33.0	35.3	41.2
4.87½ ...	5.86	32.9	35.2	41.0
4.90 ...	5.83	32.7	35.0	40.8
4.92½ ...	5.80	32.6	34.8	40.6
4.95 ...	5.77	32.3	34.6	40.4
4.97½ ...	5.74	32.2	34.4	40.2
5.00 ...	5.71	32.0	34.3	40.0

Metric system exchange at—	Flour per bbl	FACTOR Per bu— Wheat	Rye, flaxseed and corn	Oats
$ .00½ ..	224.00	733.3	787.3	1,377.6
.01 ..	112.00	366.7	393.6	688.7
.01½ ..	74.67	244.8	262.4	459.1
.02 ..	56.00	183.3	196.8	344.4
.02½ ..	44.80	133.6	157.4	275.5
.03 ..	37.33	122.4	131.2	229.6
.03½ ..	32.00	104.8	112.5	196.8
.04 ..	28.00	91.7	98.4	172.2
.04½ ..	24.88	81.6	87.5	153.1
.05 ..	22.40	73.4	78.7	137.7
.05½ ..	20.36	66.8	71.6	125.2
.06 ..	18.66	61.2	65.6	114.8
.06½ ..	17.35	56.4	60.5	106.0
.07 ..	16.00	52.4	56.2	98.4
.07½ ..	15.00	49.1	52.5	91.8
.08 ..	14.00	45.9	49.2	86.1
.08½ ..	13.16	43.3	46.3	81.0
.09 ..	12.44	40.8	43.7	76.5
.09½ ..	11.80	38.7	41.4	72.5
.10 ..	11.20	36.7	39.4	68.9
.10½ ..	10.67	35.0	37.5	65.6
.11 ..	10.18	33.4	35.8	62.6
.11½ ..	9.78	32.0	34.2	59.9
.12 ..	9.33	30.6	32.8	57.4
.12½ ..	8.96	29.4	31.5	55.1
.13 ..	8.61	28.2	30.3	52.9
.13½ ..	8.30	27.2	29.2	51.0
.14 ..	8.00	26.2	28.1	49.2
.14½ ..	7.75	25.3	27.1	47.5

Metric system exchange at—	Flour per bbl	FACTOR Per bu— Wheat	Rye, flaxseed and corn	Oats
$ .15 ..	7.50	24.5	26.5	46.9
.15½ ..	7.25	23.7	25.4	44.6
.16 ..	7.00	22.9	24.6	43.0
.16½ ..	6.80	22.2	23.9	41.7
.17 ..	6.59	21.6	23.2	40.5
.17½ ..	6.40	21.0	22.5	39.4
.18 ..	6.22	20.4	21.9	38.3
.18½ ..	6.06	19.8	21.3	37.3
.19 ..	5.90	19.3	20.7	36.3
.19½ ..	5.75	18.8	20.2	35.3
.20 ..	5.60	18.4	19.7	34.5
.20½ ..	5.46	17.9	19.2	33.6
.21 ..	5.33	17.5	18.7	32.8
.21½ ..	5.21	17.1	18.3	32.0
.22 ..	5.10	16.7	17.9	31.3
.22¼ ..	4.99	16.3	17.5	30.6
.23 ..	4.89	16.0	17.1	29.9
.23½ ..	4.78	15.6	16.7	29.3
.24 ..	4.67	15.3	16.4	28.7
.24½ ..	4.57	15.0	16.1	28.1
.25 ..	4.48	14.7	15.7	27.6
.25½	4.39	14.4	15.4	27.0
.26	4.31	14.1	15.1	26.4
.26½	4.23	13.8	14.8	25.9
.27	4.15	13.6	14.6	25.5
.27½	4.08	13.4	14.3	25.0
.28	4.00	13.1	14.0	24.6
.28½	3.93	12.9	13.8	24.2
.29	3.86	12.7	13.6	23.8
.29½	3.79	12.4	13.3	23.3
.30	3.73	12.2	13.1	22.9
.30½	3.67	12.0	12.9	22.6
.31	3.61	11.8	12.7	22.2
.31½	3.56	11.6	12.5	21.9
.32	3.50	11.5	12.3	21.5
.32½	3.44	11.3	12.1	21.2
.33	3.39	11.1	11.9	20.8
.33½	3.34	10.9	11.7	20.6
.34	3.29	10.8	11.6	20.3
.34½	3.25	10.6	11.4	19.9
.35	3.20	10.5	11.2	19.7
.35½	3.16	10.3	11.1	19.4
.36	3.11	10.2	10.9	19.1
.36½	3.07	10.0	10.8	18.9
.37	3.03	9.9	10.6	18.6
.37½	2.99	9.7	10.5	18.4
.38	2.96	9.6	10.4	18.2
.38½	2.92	9.5	10.2	17.9
.39	2.88	9.4	10.0	17.6
.39½	2.84	9.3	9.9	17.4
.40	2.80	9.2	9.8	17.2
.40½	2.76	9.0	9.7	17.0
.41	2.73	8.9	9.6	16.8
.41½	2.69	8.8	9.5	16.6
.42	2.66	8.7	9.4	16.4
.42½	2.63	8.6	9.3	16.2
.43	2.60	8.5	9.2	16.0
.43½	2.57	8.4	9.0	15.9
.44	2.54	8.3	8.9	15.7
.44½	2.51	8.2	8.8	15.5
.45	2.48	8.1	8.7	15.3
.45½	2.45	8.1	8.6	15.1
.46	2.43	8.0	8.5	14.9
.46½	2.41	7.9	8.5	14.8
.47	2.39	7.8	8.4	14.6
.47½	2.37	7.8	8.3	14.5
.48	2.34	7.7	8.2	14.3
.48½	2.32	7.6	8.1	14.2
.49	2.29	7.5	8.0	14.0
.49½	2.27	7.4	7.9	13.9
.50	2.24	7.3	7.9	13.8

British Quartern Loaf

In Great Britain and Ireland the price of bread is based on the quartern loaf. This loaf weighs 4 lbs, and is made for restaurants and large users, but most of the bread sold for household use is in half quartern loaves, weighing 2 lbs. A small loaf weighing 1 lb is also made.

Cable Language Abbreviations

Abbreviations used by cable companies, in cablegrams, in accordance with stipulations of European governments, are as follows:

The letters "L.c.f." indicate that the message is written in the French language.

"L.c.o.," the "language of country of origin."

"L.c.d.," the "language of country of destination."

WESTERN CANADA WHEAT GRADES

The grades of wheat described hereunder are of two kinds, "statutory" and "commercial." Statutory grades are shown in accordance with the new Canada Grain Act. Additional grades described in a general way are termed commercial grades, which vary considerably, and, therefore, the information contained hereunder can only be regarded as a general guide in determining grade.

RED SPRING WHEAT

No. 1 Manitoba hard shall include varieties equal to Marquis; shall be sound and well matured, weighing not less than 62 lbs per bu; shall contain not less than 50 per cent of hard, vitreous kernels; shall be free of foreign material other than dockage and wheat of other classes.

No. 1 Manitoba northern shall include varieties equal to Marquis; shall be well matured and practically free from damaged kernels, weighing not less than 60 lbs per bu; shall contain not less than 65 per cent of hard, vitreous kernels; shall be practically free of foreign material other than dockage; may contain not more than 1 per cent of wheats of other classes, except that it shall be practically free of durum wheats.

No. 2 Manitoba northern shall consist of red spring wheat of good milling quality, weighing not less than 58 lbs per bu; shall be reasonably well matured and reasonably free from damaged kernels; shall contain not less than 50 per cent of hard, vitreous kernels; shall be reasonably free from foreign material other than dockage, except that about 1 per cent of other cereal grains shall be allowed; shall contain not more than 3 per cent of wheats of other classes, including 1 per cent of durum.

No. 3 Manitoba northern shall consist of red spring wheat of fair milling quality, weighing not less than 57 lbs per bu; shall be reasonably well matured and reasonably free from damaged kernels; shall consist of not less than 25 per cent of hard, vitreous kernels; shall be reasonably free of matter other than cereal grains, but may contain about 2 per cent of cereal grains; may contain 10 per cent of wheats of other classes, including 3 per cent of durum.

No. 4 Manitoba northern shall consist of hard red spring wheat, weighing not less than 57 or 55 lbs per bu; shall be reasonably well matured, but excluded from higher grades on account of frosted or otherwise damaged kernels, or shall be rusted or shrunken but otherwise reasonably sound; shall be reasonably free from foreign material other than dockage, except that about 2½ per cent of cereal grains may be included; may contain 10 per cent of wheats of other classes, including 4 per cent of durum.

WINTER WHEAT

No. 1 Alberta red winter shall consist of red winter wheat, weighing not less than 62 lbs per bu; shall be well matured and practically free from damaged kernels; shall consist of at least 60 per cent of hard, vitreous kernels; shall be free of matter other than cereal grains; may include 1 per cent of other cereal grains; may include 5 per cent of wheat of other classes, except durum.

No. 2 Alberta winter shall consist of winter wheat, weighing at least 60 lbs per bu; shall be well matured and practically free from damaged kernels; shall consist of at least 45 per cent of hard, vitreous kernels; shall be reasonably free from matter other than cereal grains; may include about 2 per cent of other cereal grains; may include 10 per cent of wheats of other classes, including 1 per cent of durum.

No. 3 Alberta winter shall consist of winter wheat weighing at least 57 lbs per bu; shall be reasonably well matured, but excluded from higher grades on account of frosted or otherwise damaged kernels; shall be reasonably free from matter other than cereal grains; may include about 2½ per cent of other cereal grains; may include 20 per cent of wheats of other classes, including 2 per cent of durum.

All winter wheat below No. 3 Alberta winter in value may be classed in the lower grades of red spring wheat according to quality.

AMBER DURUM WHEAT

No. 1 Canada western amber durum shall consist of wheat equal to Mindum in value, weighing at least 62 lbs per bu, and composed of at least 75 per cent of hard, vitreous kernels; shall be well matured and practically free from damaged kernels; may contain ½ per cent of other cereal grains and 5 per cent of wheats of other classes except red durum.

No. 2 Canada western amber durum shall consist of wheat equal to Mindum in value, weighing at least 60 lbs per bu and composed of at least 60 per cent of hard, vitreous kernels; shall be well matured and practically free from damaged kernels; may contain about 1 per cent of other cereal grains and 10 per cent of wheats of other classes, including 5 per cent red durum.

No. 3 Canada western amber durum shall consist of amber durum wheat weighing at least 58 lbs per bu, and composed of at least 30 per cent of hard, vitreous kernels; shall be reasonably well matured and reasonably free from damaged kernels; may contain about 2 per cent of other cereal grains and 15 per cent of wheat of other classes, including 10 per cent red durum.

No. 4 Canada western amber durum shall consist of amber durum wheat weighing at least 56 lbs per bu; shall be reasonably well matured but excluded from preceding grades on account of frosted or otherwise damaged kernels; shall be reasonably free from matter other than cereal grains; may contain about 2½ per cent of other cereal grains; may contain 20 per cent of wheat of other classes, including 10 per cent red durum.

No. 5 Canada western amber durum shall consist of amber durum wheat weighing at least 54 lbs per bu; shall be of frosted or otherwise damaged kernels; shall be reasonably free of matter other than cereal grains; may contain about 3 per cent of other cereal grains and 25 per cent of wheats of other classes, including 10 per cent of red durum.

No. 6 Canada western amber durum shall consist of amber durum wheat excluded from higher grades on account of damage or light weight; shall be reasonably free of foreign material other than dockage; may contain 30 per cent of wheats of other classes, including 10 per cent of red durum.

All red durum and any other wheats containing over 10 per cent of red durum shall be classified as "red durum" irrespective of quality.

WHITE SPRING WHEAT

No. 1 Canada western white spring shall consist of white spring wheat equal to Quality, weighing at least 60 lbs per bu and consisting of at least 65 per cent hard, vitreous kernels; shall be well matured and practically free from damaged kernels; shall be free of matter other than cereal grains and practically free of other cereal grains; may contain 3 per cent of wheats of other classes, including 1 per cent of durum.

No. 2 Canada western white spring shall consist of western spring white wheat of good milling quality, weighing at least 58 lbs per bu and composed of at least 50 per cent of hard, vitreous kernels; shall be reasonably well matured and reasonably free from damaged kernels; shall be free of matter other than cereal grains; may contain not more than 1 per cent of other cereal grains and 5 per cent of wheats of other classes, including 2 per cent of durum.

No. 3 Canada western white spring shall consist of white spring wheat of fair milling quality, weighing at least 57 lbs per bu and composed of at least 25 per cent of hard, vitreous kernels; shall be reasonably well matured and reasonably free from damaged kernels; shall be reasonably free from matter other than cereal grains; may contain not more than 2 per cent of other cereal grains and 10 per cent of wheats of other classes, including 4 per cent of durum.

All white spring wheat excluded from preceding grades on account of admixtures, frosted, or otherwise damaged kernels, shall be classed in mixed wheat grades according to standard requirements.

MIXED WHEATS

No. 1 mixed wheat: a mixture of red or white spring or winter wheat, any variety predominating, equal to Nos. 1, 2 or 3 wheat, excluded from any of the recognized grades on account of such mixtures; may contain red durum not exceeding 5 per cent.

No. 2 mixed wheat: a mixture of red or white spring or winter wheat, any variety predominating, below No. 3 wheat and above feed, excluded from any of the recognized grades on account of such mixtures; may contain red durum up to 10 per cent.

No. 3 mixed wheat: a mixture of spring or winter and durum wheat, equal to Nos. 1, 2 or 3 wheat, excluded from any of the recognized grades on account of admixture of amber durum or red durum; red durum not to exceed 10 per cent.

No. 4 mixed wheat: a mixture of spring or winter and durum wheat, below No. 3 wheat and above feed, excluded from any of the recognized grades on account of amber durum or red durum; red durum not to exceed 10 per cent.

No. 5 mixed wheat: a mixture of amber durum and spring or winter wheat equal to Nos. 1, 2 or 3 wheat, excluded from any of the recognized grades on account of spring, winter or red durum; red durum not to exceed 10 per cent.

No. 6 mixed wheat: a mixture of amber durum and spring or winter wheat below No. 3 wheat and above feed excluded from any of the recognized grades on account of spring, winter or red durum; red durum not to exceed 10 per cent.

COMMERCIAL GRADES

No. 5 wheat shall be red spring wheat varieties containing from 25 to 50 per cent of thin, immature, green, or in any way damaged berries; shall weigh 53 lbs to the bushel; shall contain not more than 3 per cent of barley or rye, and not more than 5 per cent of amber or red durum.

No. 6 wheat shall be red spring wheat varieties, fully developed as far as weight is concerned, but generally damaged by frost or thinness; shall contain at least 5 per cent of sound wheat, shall weigh not less than 51 lbs to the bushel; shall contain not more than 3 per cent of barley or rye, and not more than 6 per cent of amber or red durum.

Feed wheat is wheat containing too many frosted or unsound berries to grade higher. May be composed of wheat of any variety or varieties. It may contain 3 per cent of seeds or wild oats, and about 10 per cent of other cereal grains. All feed wheat will be made "Clean till Clean" for mixed feed oats (wild oats) when containing 3½ per cent or more over the grade allowances.

British Methods of Distributing Flour and Feed

Home milled flour is usually sold direct from the miller to the baker, confectioner, or other user, generally through the travelers employed by the miller. Small bakers, especially those in sparsely populated districts, occasionally purchase through factors or wholesale dealers, who buy from millers for resale on their own account, but this method of distribution is not common. It is estimated that only about 7½ per cent of the total flour actually milled in Great Britain is handled by factors acting as principals. Imported flour is nearly always sold through factors, but during the last few years some of the flour importing firms have been selling direct to bakers, while recently a large Canadian mill formed a selling organization for the purpose of selling direct to bakers.

Flour sold direct from the mills is usually sold at a price delivered to purchaser, although this does not appear to be universal. In any case, the cost of transport is presumably allowed for in the price charged. The miller also provides the bags in which the flour is sold, although a charge is usually made for these, which is refunded upon their return. Imported flour is sold at an inclusive charge to cover bags, and accounts are payable within 30 days of delivery.

The terms upon which British mills usually sell to bakers or grocers are a month's credit, with certain discounts for ready money. While these are the nominal terms, considerable latitude in the matter of credit is given to bakers in some parts of England. In Scotland and the north of England, millers are usually strict about getting their accounts in by the end of the month.

In London a discount is allowed of 6d for cash in seven days from delivery, or 4d for cash within the month, per 280 lbs. This is equivalent to 8.4c and 5.6c per bbl, respectively.

In the north of England and certain districts of the south, where the London system does not apply, a discount of 4d per pound sterling is allowed for cash in seven days, 3d in 14 days and 2d within 30 days. Accounts are usually collected by the mills' traveling salesmen.

Milling offals are mainly sold ex-mill, the purchaser paying railway carriage, although the prices quoted usually include bags. Frequently offals are sold locally, and in some cases small millers are able to economize transport costs by delivering them to the farm and collecting grain at the same time; more often, however, milling offals are sold through the agency of a merchant dealing in feedingstuffs, who does not accept delivery or store the offals in his own warehouses, but merely arranges sales.

BAKERS IN EUROPEAN COUNTRIES

Principal Bakers in Great Britain

LONDON AND DISTRICT

Barratt & Pomeroy, 31, Elizabeth Street, S.W. 1.
J. & B. Stevenson, Ltd., Battersea Bakeries, S.W. 11.
V. V. Bread Co., 16-24 Brewery Road, N. 7.
Price & Co. (Bakers), Ltd., Furness Road, Willesden, N.W. 6.
Chibnall's Bakery, Ltd., Chiswick Mall, W. 4.
Maltina Bakeries, Ltd., 81 Webber Street, S.E. 1.
Joy's, Ltd., 232 Dawes Road, Fulham, S.W. 6.
Royal Arsenal Co-operative Society, 147 Powis Street, S.E. 18.
H. W. Nevill, Ltd., Acton Lane, W. 3.
J. Lyons & Co., Ltd., Cadby Hall, Kensington, W. 4.
London Co-operative Society, Ltd., 64 Maryland Street, E. 15.
Aerated Bread Co., Ltd., 21 Camden Road, N.W. 1.
Express Dairy Co., Ltd., 24 Tavistock Place, W. C. 1.
United Caterers, Ltd., 108, Brompton Road, S.W. 3.
H. O Serpell & Co., Ltd., Reading, Berks.

LIVERPOOL AND DISTRICT

R. Taylor & Sons, Ltd., Liverpool.
B. Sykes & Sons, Ltd., Liverpool.
J. Blackledge & Sons, Ltd., Liverpool.
R. Scott & Sons, Liverpool.
T. Scott & Sons, Liverpool.
W. & R. Jacob & Co., Ltd., Liverpool.
W. Crawford & Sons, Ltd., Liverpool.
Latham & Co., Ltd., Liverpool.
George Lunt, Son & Co., Ltd., Liverpool.
James Blackledge & Sons, Bootle.
R. Sharrock & Sons, Ltd., Manchester.
W. J. Brookes & Sons, Ltd., Manchester.
The Handley Bakeries, Ltd., Manchester.
E. Harding, Steam Bakery, Yardley, Birmingham.
A. D. Wimbush & Son, Birmingham.

GLASGOW

William Beattie, Denistoun Bakery, Paton Street.
Bilsland's Bakery, Hydepark.
J. & B. Stevenson, Vermont Street.
Scottish Wholesale Co-operative Society's Bakery.
Montgomerie & Co., Ltd., Ibrox.
Lang's Bread Co., Ltd., 38, Wesleyan Street.
J. Buchanan, Broomloan Bakery, Govan.
J. P. Marshall, Copland Road, Govan.
R. A. Peacock & Son, Ltd., Whitefield Bakeries, Ibrox.
W. & G. Muir, 19, Soho Street.
J. Currie, Ltd., Maryhill.
W. G. McAulay, Ltd., Marlborough Street.
Ure & Young, 466, St. George's Road.
W. D. Scott, Dundashill Bakery, High Craighall Road.
T. & W. Weir, 302, Garscube Road.
City Bakeries, Ltd., Clarendon Street, St. George's Cross.
James Craig, Ltd., Woodlands Road.
A. & F. Reid & Sons, 78, Victoria Road, Crosshill.
McFarland, Lang & Co., Shettleston.

EDINBURGH

Macvittics, Guest & Co., Ltd., 136, Princes Street.
J. W. Mackie & Sons, Ltd., 108, Princes Street.
Martins, Ltd., 183, Morrison Street.
Simon Henderson, Ltd., 166, Fountainbridge.
R. McDowell & Sons, 26, Torphichen Street.
D. S. Crawford, Ltd., Bellevue Bakery, McDonald Road.
St. Cuthbert's Co-operative Association, Ltd., 92, Fountainbridge.

LEITH

Scott-Lyon, Ltd., 145, Ferry Road.
Smith & Sons, Ltd., Hawkhill Bakeries.

Principal Bakers in Ireland

Inglis & Co., Ltd., Belfast.
Bernard Hughes, Ltd., Belfast.
Ormeau Bakery, Ltd., Belfast.
John McWatters, Ltd., Belfast.
Bloomfield Bakery, Ltd., Belfast.
United Co-operative Society, Belfast.
The City Bakery Co., Belfast.
William McComb, Ltd., Belfast.
Baines Bakery, Ltd., Belfast.
Hugh Kennedy, Ltd., Dublin.
Johnston, Moody & O'Brien, Dublin.
Joseph Lyons, Ltd., Dublin.
W. & R. Jacob & Co., Ltd., Dublin.
Joseph Downes & Son, Ltd., Dublin.

Principal Bakers in Holland

Brood-en Meelfabrieken Maatschappij de Korenschoof, Utrecht.
Meel-en Broodfabriek de Zeeuw (B. Hus), The Hague.
N.V. tot Exploitatie der Koninklijke Luxe Broodfabriek v/h Paul C. Kaiser, The Hague.
N.V. van der Meer & Schoep's Bakkerojen en Handel Maatschappij, Rotterdam.
Stoommeel-en Broodfabriek "Ceres" v/h G. A. Nering Bögel, Amsterdam.
N. V. Stoom-Brood-en Scheepsbeschuitfabriek v/h Forma Wed. J. de Jonge, Amsterdam.
Maatschappij voor Meel-en Broodfabrieken, Amsterdam.
Broodfabriek "Ceres," J. Ebling, Rotterdam.
Meelfabrieken der Nederlandsche Bakkerij, Rotterdam.
N.V. Verkade's Fabrieken (cakes, crackers, etc.), Zaandam.

Principal Bakers in Germany

HAMBURG

Julius Busch, Conventstrasse 8-10
Otto Kloss, Hamburgerstradde 178
Vorwaerts Backerij.
Produktions Bäckerei, Hegestrasse.
Franz Vondey, Anckelmannstrasse 117
Franz Wirth, Breitestrasse 32.
Wwe. H. Mordhorst, Hamburgerstrasse 1
Josef Kuhn, Emilienstrasse 14.
Stadtbäckerei G.m.b.H., Gansemarkt 44.
M. D. Först, Hamburgstrasse 164.
W. Beust, Bramfelderstrasse 8a.

ALTONA NEAR HAMBURG

Elbebrotfabrik, Fischmarkt.
Schluterbrotfabrik, Holstenstradde.
Harry Brotfabrik, Bahrenfelder Chaussee.

BERLIN AND DISTRICT

Berliner Brotfabrik G.m.b.H., Gerichtstr. 23, Berlin N. 39.
Berliner Brotfabrik Fritz Neumann, Langhansstr. 74/75, Berlin-Weissensee.
Berliner Hermannmühle, Berthold Rotholz, Köpenickstr. 16, Berlin SO. 33.
Brotfabrik Hermann Ullrich, Pankowerstr. 28, Buchholz, Berlin.
Dampfbrotfabrik Wilhelma, Michael Herzog, Andreasstr. 32, Berlin SO. 27.
Danielzik, Zwinglistr. 34, Berlin NW. 87.
E. Engel, Langhansstr. 98, Berlin-Weissensee.
R. Engel, Prenzlauer Promenade 47, Berlin-Heinersdorf.
Oskar Hanke's Brotbäckerei, Admiralstr. 10, Berlin SO. 26.
Hansa Brotfabrik, Heinrich Hange, Pistoriusstr. 16, Berlin-Weissensee.
Hoffmann & Schmoldt, Mainzerstr. Neukölln.
Martha Köhler, Prenzlauer Promenade 4, Berlin-Weissensee.
R. Liebenow, Bergstrasse 143, Neukölln.
O. Maroldt, Brotfabrik, Bergstrasse 93, Berlin-Steglitz.
New Berliner Genossenschaftsbäckerei e. G.m.b.H., Wilkestrasse 62, Berlin-Reinickendorf.
W. Porath, Wallstrasse 100, Berlin-Charlottenburg.
Sächsische Landbrotbäckerei Heinrich Hänge, Werneuchenerstr. 4, Hohenschönhausen b/Berlin.
Schlüterbrotfabrik G.m.b.H., Alt Moabit 91/92, Berlin NW. 21.
Senf & Co., Sömmeringstr. 18, Berlin-Charlottenburg.
Steinmetzmühle & Brotfabrik G.m.b.H., Maxstrasse 5, Berlin N. 65.
A. Thiele, Brotfabrik, Beusselstrasse 26, Berlin NW. 87.
W. Wesche, Beusselstrasse 50, Berlin NW. 87.
R. Zimmer, Hansastrasse 3, Berlin-Reinickendorf.

EXPORT QUOTATIONS AND PRACTICES

The following definitions of export quotations and general recommendations for a standard American export practice were adopted by the National Foreign Trade Council, Chamber of Commerce of the United States of America, National Association of Manufacturers, American Manufacturers' Export Association, Philadelphia Commercial Museum, American Exporters' and Importers' Association, Chamber of Commerce of the State of New York, New York Produce Exchange, and New York Merchants' Association, at a conference held in India House, New York, on Dec. 16, 1919:

1. When the price quoted applies only at inland shipping point and the seller merely undertakes to load the goods on or in cars or lighters furnished by the railroad company serving the industry or most conveniently located to the industry, without other designation as to routing, the proper term is "f.o.b. (named point)."

Under this quotation, the seller must place goods on or in cars or lighters; secure railroad bill of lading, and be responsible for loss and/or damage until goods have been placed in or on cars or lighters at forwarding point, and clean bill of lading has been furnished by the railroad company.

The buyer must be responsible for loss and/or damage incurred thereafter; pay all transportation charges, including taxes, if any, and handle all subsequent movement of the goods.

2. When the seller quotes a price including transportation charges to the port of exportation without assuming responsibility for the goods after obtaining a clean bill of lading at point of origin, the proper term is "f.o.b. (named point), freight prepaid to (named point on the seaboard)."

Under this quotation, the seller must place goods on or in cars or lighters; secure railroad bill of lading; pay freight to named port, and be responsible for loss and/or damage until goods have been placed in or on cars or lighters at forwarding point, and clean bill of lading has been furnished by the railroad company.

The buyer must be responsible for loss and/or damage incurred thereafter; handle all subsequent movement of the goods; unload goods from cars; transfer goods to vessels; pay all demurrage and/or storage charges, and arrange for storage in warehouse or on wharf where necessary.

3. Where the seller wishes to quote a price, from which the buyer may deduct the cost of transportation to a given point on the seaboard, without the seller assuming responsibility for the good after obtaining a clean bill of lading at point of origin, the proper term is "f.o.b. (named point), freight allowed to (named point on the seaboard)."

Under this quotation, the seller must place goods on or in cars or lighters; secure railroad bill of lading, and be responsible for loss and/or damage until goods have been placed in or on cars or lighters at forwarding point, and clean bill of lading has been furnished by the railroad company.

The buyer must be responsible for loss and/or damage incurred thereafter; pay all transportation charges (buyer is then entitled to deduct from the amount of the invoice the freight paid from primary point to named port); handle all subsequent movement of the goods; unload goods from cars; transport goods to vessel; pay all demurrage and/or storage charges, and arrange for storage in warehouse or on wharf where necessary.

4. The seller may desire to quote a price covering the transportation of the goods to seaboard, assuming responsibility for loss and/or damage up to that point. In this case, the proper term is "f.o.b. cars (named point on seaboard)."

Under this quotation, the seller must place goods on or in cars; secure railroad bill of lading; pay all freight charges from forwarding point to port on seaboard, and be responsible for loss and/or damage until goods have arrived in or on cars at the named port.

The buyer must be responsible for loss and/or damage incurred thereafter; unload goods from cars; handle all subsequent movement of the goods; transport goods to vessel; pay all demurrage and/or storage charges, and arrange for storage in warehouse or on wharf where necessary.

5. It may be that the goods, on which a price is quoted covering the transportation of the goods to the seaboard, constitute less than a carload lot. In this case, the proper term is "f.o.b. cars (named port), l.c.l."

Under this quotation, the seller must deliver goods to the initial carrier; secure railroad bill of lading; pay all freight charges from forwarding point to port on seaboard, and be responsible for loss and/or damage until goods have arrived on cars at the named port.

The buyer must be responsible for loss and/or damage incurred thereafter; handle all subsequent movement of the goods; accept goods from the carrier; transport goods to vessel; pay all storage charges, and arrange for storage in warehouse or on wharf where necessary.

6. Seller may quote a price which will include the expense of transportation of the goods by rail to the seaboard, including lighterage. In this case, the proper term is "f.o.b. cars (named port), lighterage free."

Under this quotation, the seller must place goods on or in cars; secure railroad bill of lading; pay all transportation charges to, including lighterage at, the port named, and be responsible for loss and/or damage until goods have arrived on cars at the named port.

The buyer must be responsible for loss and/or damage incurred thereafter; handle all subsequent movement of the goods; take out the insurance necessary to the safety of the goods after arrival on the cars; pay the cost of hoisting goods into vessel where weight of goods is too great for ship's tackle, and pay all demurrage and other charges, except lighterage charges.

7. The seller may desire to quote a price covering delivery of the goods alongside over-sea vessel and within reach of its loading tackle. In this case, the proper term is "f.a.s. vessel (named port)."

Under this quotation, the seller must transport goods to seaboard; store goods in warehouse or on wharf if necessary, unless buyer's obligation includes provision of shipping facilities; place goods alongside vessel either in a lighter or on the wharf, provide the usual dock or ship's receipt, and be responsible for loss and/or damage until goods have been delivered alongside the ship or on wharf.

The buyer must be responsible for loss and/or damage thereafter, and for insurance; handle all subsequent movement of the goods, and pay cost of hoisting goods into vessel where weight of goods is too great for ship's tackle.

8. The seller may desire to quote a price covering all expenses up to and including delivery of the goods upon the over-sea vessel at a named port. In this case, the proper term is "f.o.b. vessel (named port)."

Under this quotation, the seller must meet all charges incurred in placing goods actually on board the vessel, provide the usual dock or ship's receipt, and be responsible for all loss and/or damage until goods have been placed on board the vessel.

The buyer must be responsible for loss and/or damage thereafter, and handle all subsequent movement of the goods.

9. The seller may be ready to do farther than the delivery of his goods upon the over-sea vessel and be willing to pay transportation to a foreign point of delivery. In this case, the proper term is "C. & F. (named foreign port)."

Under this quotation, the seller must make freight contract and pay transportation charges sufficient to carry goods to agreed destination; deliver to buyer or his agent clean bills of lading to the agreed destination, and be responsible for loss and/or damage until goods have been delivered alongside the ship and clean ocean bill of lading obtained (seller is not responsible for delivery of goods at destination).

The buyer must be responsible for loss and/or damage thereafter and must take out all necessary insurance; handle all subsequent movement of the goods, take delivery and pay costs of discharge, lighterage and landing at foreign port of destination in accordance with bill of lading clauses, and pay foreign customs duties and wharfage charges, if any.

10. The seller may desire to quote a price covering the cost of the goods, the marine insurance on the goods, and all transportation charges to the foreign point of delivery. In this case, the proper term is "c.i.f. (named foreign port)."

Under this quotation, the seller must make freight contract and pay freight charges sufficient to carry goods to agreed destination; take out and pay for necessary marine insurance; deliver to buyer or his agent clean bills of lading to the agreed destination, and insurance policy and/or negotiable insurance certificate; be responsible for loss and/or damage until goods have been delivered alongside the ship, and clean ocean bill of lading and insurance policy and/or negotiable insurance certificate have been delivered to the buyer, or his agent (seller is not responsible for the delivery of goods at destination, nor for payment by the underwriters of insurance claims), and provide war risk insurance, where necessary, for buyer's account.

The buyer must be responsible for loss and/or damage thereafter, and must make all claims to which he may be entitled under the insurance directly on the underwriters; take delivery and pay costs of discharge, lighterage and landing at foreign port of destination in accordance with bill of lading clauses, and pay foreign customs duties and wharfage charges, if any.

EXPLANATIONS OF ABBREVIATIONS

F.o.b.: free on board.
F.a.s: free alongside.
C.&F: cost and freight.
C.i.f: cost, insurance and freight.
L.c.l: less than carload lot.
F.p.a: free of particular average.
S.p.a: subject to particular average.

GENERAL RECOMMENDATIONS

Exporters are urged to bear in mind that the confusion and controversies which have arisen have sprung in part from the use of an excessive number of abbreviated forms with substantially similar meanings, as well as from the use of abbreviations in a sense different from their original meanings, or in an application not originally given them and different from the sense or application understood by foreign buyers.

In simplified and standardized practice lies the best hope of reducing confusion and avoiding controversy.

The conference urges upon exporters the very great importance at all times of making their intention in whatever quotations they employ so thoroughly clear as to be impossible of misunderstanding or misinterpretation. It is much better to take the time and space at the outset to make the quotation clearly understood, than to be compelled in the end to go through vexatious controversy or litigation, which costs not only time and expense, but customers as well.

Misunderstandings can best be avoided if the seller will formulate a written statement of the general conditions under which his sales are to be made, and will see that the foreign buyer possesses these terms of sale when considering a quotation. The items which may be included in such a statement deal with: delivery, delays, partial shipments, shipping instructions, inspection, claims, damage, and payment. If all contingencies are thus covered by carefully considered conditions of sale, disputes will largely be prevented.

QUOTING "F.O.B."

The quotation "f.o.b. (named port)," as "f.o.b. New York," "f.o.b. New Orleans," "f.o.b. San Francisco," is often used by inland producers and distributors to mean merely delivery of the goods at railway terminal at the port named. This abbreviation originated as an export quotation, and had no application to inland shipments. It was used only to mean delivery of the goods upon an over-sea vessel at the port named. That, in fact, is the meaning universally given to the phrase among foreigners, and is the meaning which the best practice among exporters requires it invariably to have.

But because of the confusion which has arisen through the use of that form with a different meaning by inland producers and distributors, and in the interest of unmistakable clarity, the conference most strongly urges the invariable use by American manufacturers and exporters of the form "f.o.b. vessel (named port)." This adds only one word to the abbreviated form and has the great advantage that it cannot be misunderstood. It also avoids the difficulty which might arise among foreigners not always well versed in American geography, through confusing an inland forwarding point with a shipping port at seaboard.

The conference calls attention to the fact that in selling "f.a.s. vessel" manufacturers and exporters should be careful to have their agreements with buyers cover explicitly the question of responsibility for loss after goods have been delivered on the wharf or alongside the vessel and before they are actually loaded on the ship. There is no generally established practice on this point. The recommendation of the conference in the definitions of responsibility under section 7 sets up a rule which it is hoped will lead to a standard practice.

It is understood that the provision of lighterage covered in several of these recommendations is only within the usual free lighterage limits of the port, and that where lighterage outside such limits is required, it is for buyer's account.

The conference points out that in quoting "C.&F." or "c.i.f." exporters moving large quantities of material by one vessel should be careful to ascertain in advance the buyer's capacity to take delivery. This because, under these terms and as a condition of making the freight rate, transportation companies may require a certain rate of discharge per day, and that rate of discharge might be in excess of the buyer's capacity to take delivery. In such event an adjustment with the transportation company would be necessary, which might affect the freight rate and, consequently, the price to be quoted.

The conference also strongly urges shippers clearly to understand the provisions of their insurance protection on all foreign sales, irrespective of the general terms used thereon. In almost all cases it should be possible, when making shipments by steamer, to obtain insurance cover giving full protection from primary shipping point to designated seaport delivery, and/or foreign port delivery. As ordinary marine insurance under f.p.a. conditions, i.e., free of particular average, gives no protection against deterioration and/or damage to the merchandise itself while in transit, when caused by the recognized hazards attending such risks, shippers should endeavor in all cases to obtain insurance under w.p.a. (s.p.a.) conditions, i.e., with particular average (subject to particular average), when in excess of the customary franchise of 3 per cent to 5 per cent. Under such form of insurance, underwriters will be called upon to pay claims for damages when these exceed the stipulated franchise.

The conference points out that inasmuch as fees for consular invoices and similar items are arbitrary charges fixed by foreign governments, they are not included in the terms of C.&F. or c.i.f. quotations, and it is part of the duty of the buyer to meet them.

MAKING WEIGHT QUOTATIONS

In order to avoid confusion in another particular, attention is called to the care which must be exercised in all cases in making weight quotations. The net ton, the gross ton and the metric ton, all differ in weight. Similarly there is a variation in the use of the term "hundredweight" to mean either 100 or 112 lbs. It is, therefore, not sufficient to quote a price per "ton" or per "hundredweight." Instead the conference recommends the use of the terms "ton of 2,000 lbs," "ton of 2,240 lbs," or "ton of 2,204 lbs," etc., whichever is intended.

It is also important to note that a carload lot in the United States varies according to the commodity and in different parts of the country. The load required may range anywhere from 12,000 to 90,000 lbs. Consequently it is important, when quoting prices applicable to carload lots, to specify the minimum weight necessary to make a carload lot of the particular commodity.

Finally, the conference strongly recommends, as a most effective measure of simplification, the general practice of quoting for export, as far as possible, either "f.a.s. vessel," "f.o.b. vessel" or "c.i.f." Concentration on this small list, all of which terms are readily understood abroad and are difficult of misinterpretation, will, it is felt, be markedly influential in avoiding confusion and controversy.

TERMS OF SALE IN EXPORT MARKETS

Export methods have changed considerably during the last few years. It is now the general rule for mills to ship on "guaranteed seaboard shipment" terms, as "shipment from mill" handicaps business. In view of the severe competition from home mills which importers have to contend with in practically every importing country, it is very important that they should be able to give their buyers a definite date of seaboard shipment instead of subjecting their sales to the indefiniteness of the old method of "specified mill shipment," which is so liable to serious delays in transit. The majority of the mills in the United States and Canada do business on seaboard shipment terms only, forwarding agents being able to arrange this without difficulty.

COMMISSION

Great Britain and Ireland.—Practically all the buying is done by importers for their own account, net, c.i.f.

Holland.—Two per cent commission and 1 per cent discount. The importer retains the 2 per cent commission for himself and pays the 1 per cent discount to his customer, making 3 per cent in all, which is usually deducted from the invoice. On sales to Germany and central Europe, Holland importers charge 3 and 4 per cent commission.

Germany, Denmark, Norway, Sweden, Finland, Greece.—The usual commission is 2½ per cent, but some agents are willing to work for 2.

Gibraltar, Malta.—A few firms buy for their own account, but the business is mostly on a commission basis, the usual commission being 2@2½ per cent.

In cases where a Scandinavian agent represents a mill for the whole of Scandinavia, or for two or more countries, his commission is 2½ per cent. The commission is invariably figured on the gross amount of the invoice.

PACKAGES

Great Britain and Ireland.—The 140-lb bag, usually jute.

Germany, Denmark, Norway, Sweden, Finland.—Mostly the 50-kilo bag, cotton or jute, as specified.

Italy.—The 140-lb bag and the 50-kilo bag, jute or cotton, as specified.

Gibraltar.—Mostly the 140-lb bag, but occasionally the 50-kilo bag.

Malta.—Almost entirely in bags of 112 lbs.

Greece.—The 140-lb bag and the 50-kilo bag, jute or cotton, as specified.

Egypt.—Mostly the 140-lb bag.

TERMS OF SALE

Great Britain and Ireland.—Quotations are made in sterling per sack of 280 lbs. Drafts are drawn in sterling at seven or sixty days' sight.

Holland, Germany, Denmark, Norway, Sweden, Finland.—Quotations in all these countries are in dollars per 100 kilos, and terms of payment are seven days' sight draft, payable against documents in dollars.

Italy.—Quotations are made in dollars per 280 lbs or 100 kilos. Payment is made by opening an irrevocable credit in New York within 24 hours of the sale, and drafts are drawn in dollars on the bank where the credit has been established.

Gibraltar, Malta.—Quotations are made in dollars per 280 lbs or 100 kilos. Payment is made by the opening of an irrevocable credit in New York, except in a few instances.

Greece.—Quotations are made in dollars per 100 kilos or 280 lbs. In most cases payment is made by the opening of an irrevocable credit in New York within 24 hours of the sale, and drafts are drawn in dollars on the bank where the credit has been established.

Egypt.—Quotations are made in dollars per 280 lbs or 100 kilos. Payment is made by the opening of an irrevocable credit in New York within 24 hours of the sale, and drafts are drawn in dollars on the bank where the credit has been established.

DIFFERENTIAL ON BAGS

Mills include the difference in cost between 50-kilo and 100-kilo bags in their quotations. For instance, if a 100-kilo bag of flour costs $7 a further 5c or 10c—as the case may be—must be added to allow for shipment in 50-kilo bags.

British Flour Grades

The grades of flour made by British mills consist of fancy patents, patents, straight run, bakers and second bakers.

The price of the various grades is based on the straight run grade; fancy patents are usually 2s above the price of straight run; patents, 1s above; bakers, 2s below; second bakers, 3s below.

Fancy patents usually consist of 70 per cent of the flour divide; the remaining 30 per cent is termed bakers grade. The latter, however, is rarely used by bakers except in country districts.

Patents are usually 80 per cent of the flour divide, the remaining 20 per cent being termed second bakers.

Straight run flour is all the flour, with no divide. This is the principal grade milled, and forms two thirds of the trade of most millers. This grade is known as standard straight run.

The percentage of extract in the United Kingdom varies from 70 to 74 per cent. A typical port mill mixture would consist of 20 per cent No. 1 northern Manitoba wheat, 20 per cent No. 1 northern Duluth, 20 per cent No. 2 hard winter or Argentine wheat, 20 per cent Australian and 20 per cent Karachi. Some millers use 30 per cent No. 1 Manitoba at the expense of the hard winter wheat.

Home grown wheat is generally used by small country millers, but if the flour is for bread purposes a considerable percentage of strong wheat is added. Otherwise, this flour is principally sold for the manufacture of biscuits.

THE FLOUR CONTRACT OF THE LONDON FLOUR TRADE ASSOCIATION

CANADIAN AND UNITED STATES OF AMERICA FLOUR CONTRACT

London.....19..

SOLD TO/BOUGHT OF.....

on the printed rules endorsed on this Contract.....say

.....bags

(2 per cent. more or less) of Flour, weighing at time of despatch.....lbs. gross

branded.....to be equal at time of despatch to

*fair average quality of the season's shipments of.....

*sealed sample in possession of.....

Due allowance to be made for bleaching and time out of bulk.

The Flour is not warranted free from defect rendering same unmerchantable, which would not be apparent on reasonable examination, any statute or rule of law to the contrary notwithstanding.

Despatched or to be despatched from.....

per rail and/or Lake or River steamer or steamers, as per Bill or Bills of Lading dated or to be dated.....and to be shipped.....

from any safe Atlantic port or ports between Hampton Roads and the St. Lawrence and/or Gulf port or ports inclusive, per first-class Ocean steamer or steamers and/or motor-vessel or motor-vessels.....classed not lower than 90 A1, or British Corporation B.S. or equal classification in American, French, Italian, Norwegian or other equal Register, at the price of.....say.....shillings and.....pence per 280 lbs. gross including freight and insurance to.....direct or indirect.

Each shipment shall be deemed a separate Contract, and in case the above forms part of a larger shipment of the same brand, any loss arising from damaged or ullaged packages, or any excess or deficiency shall be shared pro rata by the receivers of the various parcels.

Bill or Bills of Lading to be final as to quantity, weight and date of shipment in the absence of evidence to the contrary.

Payment by cash in London in exchange for shipping documents, on or before arrival of first vessel, less discount for the unexpired term of.....days from date of arrival of Bill or Bills of Lading in London, at the rate of one-half of one per cent. per annum above the advertised rate of interest for short deposits allowed by the leading Joint Stock Banks in London, or at Seller's option by Buyer's acceptance of Shipper's or Seller's drafts, domiciled in London, at.....days' sight from date of arrival of Bill or Bills of Lading in London, with documents attached, but payment is in no case to be later than the prompt. Should, however, the shipment or any portion thereof be included in a Bill or Bills of Lading, for a larger quantity, payment to be made against an approved delivery order or orders, but payment shall not in such case be demanded before the arrival of the vessel, and in case of loss Seller to recover the Insurance from the Underwriters, and hold such amount or amounts as may be due to the Buyer at his disposal. If shipping documents have not been sighted at time of vessel's arrival at Port of discharge, Seller shall provide documents entitling Buyer to obtain delivery of the Flour, and payment must be made in exchange for same, such payment to be made without prejudice to Buyer's rights under the Contract.

Seller to give Policies and/or Certificates of Insurance, free of war risk, for not less than two per cent. over the gross amount of Invoice, the excess (if any) remaining for Seller's account, in case of total loss only. Insurance to be effected at Seller's option with approved Underwriters and/or Companies paying losses (if any) on gold basis in London, but for whose solvency Seller is not to be responsible. Insurance shall, however, only be effected with Underwriters and/or Companies carrying on business in London or who for the purpose of any legal proceedings agree to a British Domicile and provide an address for service of process in London.

Should shipment be prevented by prohibition of export, blockade or war, this Contract, or the then unfulfilled part thereof, to be cancelled.

Seller shall not be answerable for loss, damage, or delay, caused by strikes or by combinations of workmen.

Buyer and Seller agree that, for the purpose of proceedings, either legal or by arbitration, this Contract shall be deemed to have been made in England, and to be performed there, any correspondence in reference to the offer, the acceptance, the place of payment or otherwise notwithstanding, and the Courts of England or Arbitrators appointed in England, as the case may be, shall, except for the purpose of enforcing any award made in pursuance of the arbitration clause hereof, have exclusive jurisdiction over all disputes which may arise under this Contract. Such disputes shall be settled according to the law of England whatever the domicile, residence, or place of business of the parties to this Contract may be or become. Any party to this Contract residing or carrying on business elsewhere than in England or Wales, shall, for the purposes of proceedings at law or in Arbitration, be considered as ordinarily resident or carrying on business at the office of the Secretary for the time being of the London Flour Trade Association, and if in Scotland, he shall be held to have prorogated jurisdiction against himself to the English Courts, or if in Northern Ireland to have submitted to the jurisdiction, and to be bound by the decision of the English Courts. The service of proceedings upon any such party by leaving the same at the office of the Secretary for the time being of the London Flour Trade Association, together with the posting of a copy of such proceedings to his address abroad, or in Scotland or Northern Ireland, shall be deemed good service, any rule of law or equity to the contrary notwithstanding.

All disputes arising from time to time out of this Contract shall be referred to Arbitration, according to the printed rules endorsed on this Contract, and neither Buyer nor Seller shall bring any action against the other of them in respect of any such dispute until such dispute has been settled by Arbitrators, or by the Committee of Appeal, as the case may be, and it is expressly agreed that the obtaining an award from either tribunal, as the case may be, shall be a condition precedent to the right of either contracting party to sue the other in respect of any claim arising out of this Contract. All costs of or connected with the stating and argument of any Special Case for the opinion of the Court on any question of law arising in the course of the reference shall be borne and paid by the party requiring the same to be stated unless or except so far as otherwise determined by the award to be made in the reference.

RULES

1.—SELLING SAMPLE.—Either Seller or Buyer may require same to be deposited with the Association within seven business days of the date of Contract. The person requiring the deposit shall pay a fee of 10s 6d for custody.

2.—PROVISIONAL INVOICE stating date of Bill or Bills of Lading shall be handed by the original Seller to his Buyer or Buyer's Agent domiciled in London within seven days after the arrival of the documents in London, but in no case later than twenty-eight days from date of Bill of Lading (unless arrival of mail steamer be delayed by unforeseen circumstances), and by subsequent Sellers in due course. If the documents are tendered within the time stipulated but after arrival of steamer to which the tender refers, landing charges if incurred shall be borne by Seller. Seller shall render a separate invoice for each set of documents, and Buyer shall have the right to inspect documents during the usual banking hours.

3.—NOTICE TO RETIRE DOCUMENTS shall be given by the Buyer to the Seller before 11.30 a.m. on the day of payment. If documents are required on a Saturday notice shall be given before 4 p.m. on the business day prior to day of payment.

4.—IN DEFAULT of fulfilment of contract, either party after giving notice shall have the right of re-sale or re-purchase either publicly or privately, or assessment of difference in value by arbitration, as the case may be, and the defaulter shall make good on demand the loss, if any, by such re-sale or re-purchase or assessment. Such notice, or notice of any claim for non-fulfilment of Contract, shall be given within seven business days of the act of default. In case either party shall suspend payment, or convene or hold a meeting of creditors, or commit an act of bankruptcy, or (being a company) shall have a Receiver appointed by the Court or Debenture holders, or convene a meeting for or go into liquidation whether voluntary or otherwise, he shall be deemed to be in default, and the other party shall, after giving notice by letter or telegram to the defaulting party, and notwithstanding any bankruptcy or liquidation, immediately have the right of re-sale or re-purchase or assessment by arbitration, as the case may be, and shall also be entitled to be paid, or to prove in any bankruptcy, liquidation or otherwise, for the loss, if any, or shall account for the profit, if any, occasioned by such re-sale or re-purchase or assessment.

5.—DESCRIPTION AND QUALITY.—Should it be decided by arbitration that the Flour shipped is of a distinctly different description, or 10 per cent. inferior in quality to that guaranteed in this contract, Seller shall, if required, receive back the Flour at the cost, freight and insurance market value on the day on which the claim for arbitration is made, of the description or quality guaranteed, or should the Buyer keep the Flour, the Seller shall pay such an allowance for difference in description or inferiority in quality as may be awarded by arbitration in London, but it shall be in the discretion of the Arbitrators to give, in either case, damages over and above the difference in value, according to the special circumstances of the case.

6.—SAMPLING FOR ARBITRATION.—Three packages in every hundred shall be sampled. Should either party require more than three packages in every hundred to be sampled, the extra expense must be borne by him.

Should the Buyer not land the Flour at a dock or public wharf, no claim for difference in description or inferiority in quality of deliveries ex ship can be made unless samples are drawn and sealed conjointly by the Buyer and Seller or by the Dock Company in whose Dock the ship discharges before the Flour leaves the ship's side or Dock. Should the ship not discharge in a Dock and either party fail to make arrangements for sampling on arrival of the ship, the other party may forthwith appoint one of the Official Samplers of the London Flour Trade Association to draw and seal samples and such samples shall be taken as correct and final in the case of arbitration.

Should the Flour be landed at a Dock or Public Wharf and should samples not have been drawn and sealed as provided in the previous paragraph, no claim for difference in description or inferiority in quality can be made unless samples are drawn and sealed conjointly by the Buyer and Seller or by the Dock Company or Wharfinger on whose premises the Flour is stored, within seven business days from date of final landing.

7.—NOTICE OF ARBITRATION shall be given and Arbitrator nominated within seven business days of the parcel being available for proper sampling, if the Flour is landed at a Dock or Public Wharf, or within seven business days of drawing samples if the Buyer does not land the Flour at a Dock or Public Wharf.

8.—FINALITY RULE.—Arbitration on quality having been claimed in accordance with the terms of this Contract, the parties claiming must proceed with the arbitration within twenty-eight days from date of final landing if landed at a Dock or Public Wharf, otherwise within twenty-eight days from date of final discharge of steamer. After the expiration of these limits, claims for quality to be void unless the delay is, in the opinion of the Arbitrators, considered justifiable.

9.—NON-BUSINESS DAYS.—Sundays, Good Friday, Easter Monday, Whit Monday, the first Monday in August, Christmas Day, Boxing Day, and any other legal Bank Holiday.

10.—ARBITRATION.—All disputes arising from time to time out of this Contract shall be referred to two Arbitrators, one to be appointed by each party in difference, the two Arbitrators having power to appoint a third in case they deem it necessary. In the event, however, of one of the parties appointing an Arbitrator and the other refusing, or for seven days after notice of the appointment neglecting to appoint, then providing the Applicant pays to the Association one guinea, the questions in dispute shall stand referred to an Arbitrator to be appointed by the Executive Committee of the London Flour Trade Association, to meet the Arbitrator already appointed. In case the Arbitrators do not within fourteen days after their appointment agree to an award or appoint a third Arbitrator, or in case of the death, refusal to act, or incapacity of any one or more of the Arbitrators; then, upon the application to the Association of either of the disputing parties, and providing the Applicant pays to the Association one guinea, the questions in dispute shall stand referred to two Arbitrators appointed by the Executive Committee of the London Flour Trade Association at a meeting convened by notice for the purpose. In case the two Arbitrators appointed as aforesaid do not, within fourteen days after their appointment agree to an award or appoint a third Arbitrator, then the said Executive Committee, at a meeting constituted as hereinbefore provided, shall appoint a third Arbitrator. In case of death, refusal to act, or incapacity of any such Arbitrators, the said Executive Committee shall substitute a new Arbitrator or Arbitrators in the place of the Arbitrator or Arbitrators so dying, refusing, or incapacitated; or should the disputing parties both agree to refer the question to the London Flour Trade Association, then, providing the Applicants pay to the Association two guineas, the Executive Committee shall appoint two Arbitrators, giving them power to call a third, if necessary, to settle the dispute. Only members (or their nominated representatives) of the London Flour Trade Association shall be Arbitrators.

All awards, except in appeal cases, made under an Association Contract shall be subject to the following fees for each individual engaged:—

Not exceeding 500 sacks of 280 lbs. each, or its equivalent, £2 2s.

And every additional 500 sacks (or part thereof) of 280 lbs. each, £1 1s.

All awards issued under an Association Contract must be written upon the Association "Form of Award," stamped with the stamp of the Association, which can only be obtained of the Hon. Treasurer at a cost of 5s each if both parties concerned are Members, and 20s each if either or both are Non-Members, the extra 15s being paid by the Non-Member.

The award of any two Arbitrators in writing (subject only to the right of appeal hereinafter mentioned) shall be conclusive and binding upon all disputing parties, both with respect to the matter in dispute and all expenses of and incidental to the reference and award.

No Member of the Executive Committee having an interest in the matter in dispute shall vote on the question of the appointment of Arbitrators.

In case either party shall be dissatisfied with the award, a right of appeal shall lie to the Committee of Appeal elected for that purpose, and subject to their regulations, provided notice be given to the Secretary of the London Flour Trade Association, before 4 o'clock p.m. on the fourth business day after that on which the objecting party shall have notice of the award, and provided also the Appellant do pay to the Association, on giving notice of appeal, fees upon the following scale:—

Members, 14 guineas; Non-Members, 20 guineas.

The cost of Award Forms to be paid together with the above fees.

Cost of Award Forms for Members 5s each, and Non-Members 20s each. Should either of the disputants be a Non-Member an Award Form costing 20s must be used, the extra 15s being paid by the Non-Member.

The Committee of Appeal shall confirm the award appealed from, unless four of the five Members appointed to hear such appeal decide to vary such award. They shall also award by whom all fees shall be borne.

The award of the Committee of Appeal, whether confirming the original award or varying such award, shall be signed by the Chairman of the day, and, when signed, shall become the award of the Committee, and shall be in all cases final.

Notices given under any of the above Rules must be in writing, and sent by post to or left at the usual place of business of the person or firm to whom addressed.

FLOUR PACKAGES FOR FOREIGN COUNTRIES

There follows a statement of the packages in which flour is most commonly shipped to the countries importing from the United States. This information has been compiled by the United States Department of Commerce from reports received from its representatives in the various countries in question.

Africa—98-lb cotton, also wooden barrels.

Azores—Same as Brazil's 97-lb package.

Baltic States—Same as Scandinavia, more often jute.

Barbados and Turk Islands—Cotton 98-lb bags, 196-lb cottons, 7-lb cottons (14 being inclosed in jute) are the most common packages.

Bermuda—Usually standard packages are taken, but sometimes 100-lb bags are used.

Bolivia—American flour comes in sacks of 100 lbs each, containing two 50-lb sacks.

Brazil—The common package is a 22-kilo sack, although 44 kilos—approximately 97 lbs—is the unit. In case double sacks are used, extra import duties are levied (single sacks are exempt from import duty). Also shipped in barrels.

British Honduras—Flour is usually shipped in barrels, sometimes sacks of 96, 48, 24 lbs, usually cotton, sometimes jute.

Canada—Imports very little flour. It is all border trade, and no standard package is used.

Canary Islands—50-kilo cotton.

Chile—All Chilean flour comes packed in Osnaburg bags, weighing 23 and 46 kilos gross, respectively; no outside bag covering is used.

China—Cloth sacks of 49 lbs each are used.

Colombia—Flour is shipped in five 25-lb cottons inclosed in a jute outer cover. Waterproof packages are also used.

Costa Rica—Four cotton sacks inclosed in one jute bag. Cotton sacks contain 49 lbs each.

Cuba—Practically all flour used in Cuba is packed in 200-lb and 203-lb bags. It is thought that more than half of the bags are of the 203-lb size. Flour is packed in regular white cotton bags without an outer covering of jute or burlap.

Dominican Republic—Flour is shipped in 12½- and 25-lb cottons. These small bags in a large jute sack containing 10 of the 12½-lb bags or 5 of the 25-lb bags; also loose in 125- and 196-lb cotton sacks, inclosed in a jute sack; medium weight cloth is used for these sacks.

Dutch and British Guiana—Flour is imported in 98- and 196-lb cottons.

Dutch West Indies—Sacks of 98 and 196 lbs are used.

Ecuador—Flour imports come in 98- and 88-lb cotton bags inclosed in jute sacks.

Egypt—Flour is imported in 140-lb jutes, also 50- and 100-kilo cottons and jutes.

French West Indies—The flour is received in cotton bags of 196 lbs, 100 lbs and 25 lbs to the bag, but more commonly in the 196-lb bags. Heavy cotton bags are used.

Germany—Same as Scandinavia, more often jute.

Great Britain—Flour is generally imported in 140-lb cottons.

Greece—Flour is either imported in ordinary 110-lb cloth bags or in 140-lb jutes.

Guatemala—Flour is imported in 49-lb cotton bags, three bags being inclosed in one jute or burlap bag. For retail grocery or family trade, in 24-lb cotton bags, four of which are inclosed in one jute or burlap bag, or in 12-lb cotton bags, eight to a jute bag.

Haiti—Flour is generally received in cotton sacks of 20 lbs each, six sacks being placed in a jute bag. Bags of 98 and 196 lbs are also received, especially by, or for sale to, the bakeries; also in 24¼- and 49-lb cotton bags, 8 and 4 respectively inclosed in jute.

Honduras—Sacks of 98 lbs are most commonly used.

Hongkong—Cloth sacks of 49 lbs each are used.

Italy—100-kilo cotton and jute.

Jamaica—Bags containing 196 lbs flour and weighing about 2 lbs are in almost universal use. Flour is packed in fairly heavy, regular cotton bags. Wooden barrels, 7-lb cotton, 3½-lb cotton (14 and 28 respectively in jute outer cover) are also used.

Japan—Cloth sacks of 49 lbs each are used.

Kwangtung—Cloth sacks of 49 lbs each are used.

Malta—Flour is usually imported in heavy cotton bags of 140 and 280 lbs. The bags must be sufficiently strong to stand several months of storage.

Mexico—The size of flour bags used are those containing 49 and 98 lbs. Flour is packed in regular cotton bags when coming by rail. Flour coming in by steamer was formerly packed in cotton bags, inclosed in outer wrapping such as burlap.

Netherlands—Same as Scandinavia, more often jute.

Nicaragua—Jute bags of 98 lbs each are preferred.

Palestine and Syria—Practically all American flour is purchased from Egyptian commission houses and the packages are the same as those for Egypt.

Panama—Flour is sold in barrels, half barrels and sacks of various sizes. Several small sacks are then made into one package with an external covering of burlap; likewise 98-lb cotton.

Peru—The sizes of flour bags that are in common use in this country are 49, 98, 101 lbs. These are made of cotton, and the larger sizes usually have an outside bag of jute. This outside bag is especially advantageous in lessening the loss incurred by rough handling in the ports on the west coast of South America.

Philippine Islands—Cloth sacks of 49 lbs each are used.

Philippine Islands (Manila)—Sacks of 49 lbs, cotton.

Salvador—Cloth 50-lb bags are used.

Scandinavian Countries—50- and 100-kilo cotton, also 50- and 100-kilo jute.

Trinidad—Whole and half bags. Whole bags weigh 196 lbs net, and half bags 98 lbs net.

Venezuela—Most of the flour used here comes in bags of 49 and 98 lbs. They are cotton and double, and are not inclosed in burlap. Flour is also imported in 196-lb 45- and 90-kilo cotton sacks, inclosed in burlap.

SPANISH-AMERICAN TRADE CONTRACT

The following form of trade contract in use by the Oklahoma City (Okla.) Mill & Elevator Co. was written after consultation with export trade authorities, lawyers and other millers, and is regarded as a standard and very desirable form to use. It is, of course, printed in Spanish and English, only the English text being here given.

EXPORT SALES CONTRACT*

Order No..... Date.....

OKLAHOMA CITY MILL & ELEVATOR COMPANY

Oklahoma City, Oklahoma, U. S. A.

Sells and ..... of
Street or P. O. Box.....of the
City ..... buys
subject to the terms and conditions enumerated below and on the back of this contract, which terms and conditions are binding on both parties, and cannot be modified except by the written consent of both parties, the following merchandise:

Quantity	Size	Packing	Brand	Price in Dollars
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

TERMS AND CONDITIONS:

Terms of payment.....Draft with bill of lading
attached through .....Bank of
.....
The buyer will be responsible until final payment reaches the seller
Time of shipment from mill.....
Destination or port.....
.....

Buyer — OKLAHOMA CITY MILL & ELEVATOR CO. Seller

By..... By.....

CONDITIONS†

(1)—This contract is subject to the confirmation of the Oklahoma City Mill & Elevator Co., in Oklahoma City, U. S. A., and is not subject to cancellation or modification without the previous consent of both parties of the contract, given either by letter or by cable.

(2)—No representative or agent has the authority to change this contract in any way, or to make verbal agreements.

(3)—Each shipment constitutes a separate contract, and the delivery of the flour to the transportation companies constitutes the complete execution of the contract on the part of the seller.

(4)—The prices stipulated are based on the value of the flour at the mill plus the cost of insurance to the port of destination, and the quota of the freight in force at the time of the ratifying of this contract. Any change in freight prices after the agreeing of this contract will be charged or credited to the buyer.

(5)—The seller is not responsible for delays resulting from strikes, fires, floods or delay in the itinerary of the steamers, or for any other cause or contingency beyond the seller's control.

(6)—The seller is not in any way responsible for any loss or damage that the goods may suffer during the passage, or for the arrival of the merchandise stipulated in this contract in perfect conditions; and the fact that the buyer received the merchandise in damaged condition does not relieve him of his responsibility.

(7)—Drafts covering any damaged shipments must be paid promptly, and any claim arising from such shipments must be directed to the steamship or to the insurance company, as the case may be; however, the shippers from this end and the representatives at the other will aid, if necessary, in the collection of the claims.

(8)—Any claim to be filed against the steamship company or the insurance company must be accompanied by an official survey, original insurance certificate, and the other papers necessary to substantiate the claim.

(9)—The nonacceptance by the buyer of a draft covering merchandise shipped in accordance with the terms of contract or the nonpayment when due will be considered default of contract on the part of the buyer, and the balance of the contract is subject to cancellation at the option of seller, and any expenses or losses resulting from noncompliance of contract shall be for the account of the buyer.

(10)—Seller shall be under no obligation to replace flour lost in transit

*Face. †Reverse.

TIME EQUIVALENTS

When It Is Noon (Standard Time) at Minneapolis

It is at—	Time	It is at—	Time
Argentina, Cordoba	1:43 p. m.	South Africa, Cape Town	8:00 p. m.
Australia, Central	3:30 a. m.	Spain, Madrid	6:00 p. m.
Austria-Hungary, Vienna	7:00 p. m.	Sweden, Stockholm	7:00 p. m.
Belgium, Brussels	6:00 p. m.	Switzerland, Berne	7:00 p. m.
Brazil, Rio de Janeiro	3:07 p. m.	Turkey, Constantinople	8:00 p. m.
Canada, Medicine Hat	11:00 a. m.	Uruguay, Montevideo	2:15 p. m.
Canada, Toronto	1:00 p. m.	Venezuela, Caracas	1:32 p. m.
Chile, Santiago	1:17 p. m.	United States—	
China, Shanghai	2:06 a. m.	Atlanta, Ga.	12:00 noon
Colombia, Bogota	1:03 p. m.	Austin, Texas	12:00 noon
Cuba, Havana	12:31 p. m.	Baltimore, Md.	1:00 p. m.
Denmark	7:00 p. m.	Boston, Mass.	1:00 p. m.
Ecuador, Quito	12:46 p. m.	Buffalo, N. Y.	12:30 p. m.
Egypt, Cairo	8:00 p. m.	Chicago, Ill.	12:00 noon
England, London	6:00 p. m.	Cincinnati, Ohio	12:00 noon
France, Paris	6:09 p. m.	Cleveland, Ohio	12:00 noon
Germany, Berlin	7:00 p. m.	Denver, Colo.	11:00 a. m.
Gibraltar	6:00 p. m.	Detroit, Mich.	12:00 noon
Greece, Athens	7:35 p. m.	Galveston, Texas	12:00 noon
Holland, The Hague	6:20 p. m.	Helena, Mont.	11:00 a. m.
India, Madras	11:21 p. m.	Indianapolis, Ind.	12:00 noon
India, Calcutta	11:53 p. m.	Kansas City, Mo.	12:00 noon
Ireland, Dublin	5:35 p. m.	Louisville, Ky.	12:00 noon
Italy, Rome	7:00 p. m.	Minneapolis, Minn.	12:00 noon
Jamaica, Kingston	12:53 p. m.	Nashville, Tenn.	12:00 noon
Japan, Tokyo	3:00 a. m.	New Orleans, La.	12:00 noon
Java, Batavia	1:07 a. m.	New York City	1:00 p. m.
Korea, Seoul	3:00 a. m.	Omaha, Neb.	12:00 noon
Malta	7:00 p. m.	Philadelphia, Pa.	1:00 p. m.
Mexico, Mexico City	11:24 a. m.	Pittsburgh, Pa.	1:00 p. m.
Newfoundland, St. John's	2:29 p. m.	Portland, Oregon	10:00 a. m.
New Zealand	5:30 a. m.	Richmond, Va.	1:00 p. m.
Nicaragua, Managua	12:15 p. m.	Salt Lake City, Utah	11:03 a. m.
Norway, Christiania	7:00 p. m.	San Francisco, Cal.	10:00 a. m.
Nova Scotia	2:00 p. m.	Santa Fe, N. M.	11:00 a. m.
Panama, Colon	12:40 p. m.	Seattle, Wash.	10:00 a. m.
Peru, Lima	11:51 a. m.	Spokane, Wash.	10:00 a. m.
Portugal, Lisbon	5:24 p. m.	St. Louis, Mo.	12:03 noon
Russia, Petrograd	8:01 p. m.	Toledo, Ohio	12:00 noon
Singapore	12:55 a. m.	Washington, D. C.	1:00 p. m.

MILLERS' NATIONAL FEDERATION UNIFORM SALES CONTRACT*

(Adopted June 3, 1929)

Contract No..... Date.....

.....sell(s), and
..... buy(s) the
following commodities (to be manufactured), on the terms and conditions stated below and on back hereof, f.o.b. cars to initial carrier at shipping point, freight (basis freight rate in effect date of sale) allowed to.....
Time of shipment .....
Destination .....
Terms of payment.....draft with bill of lading attached, through.....
Bank of .....
Routing .....
Seller shall have the option as to routing except as to the delivering carrier.

QUANTITY (Bbl, Ton or Cwt.)	COMMODITY (Flour, Feed, etc.)	PACKAGES		BRANDS	PRICE PER UNIT (Bbl, Ton or Cwt)
		SIZE	KIND Wood, Cotton, Etc.		

SHIP AS FOLLOWS: .....bbls. on or about.....; .....bbls. on or about.....; .....bbls. on or about.....; .....bbls. on or about.....

NET WEIGHTS: The commodities covered by this contract are sold on the basis of net weights when packed.

PACKAGE DIFFERENTIALS: Millers' National Federation Package Differentials in effect at time of contract govern.

COLLECTIONS: Where buyer designates the collecting bank, he shall be responsible for payment.

SHIPMENTS: Title to shipment(s) shall not pass until full payment. Buyer shall furnish seller shipping instructions (and on sales made on a bulk basis, the necessary packages) at least fourteen (14) days before the time of shipment.

RIGHTS OF THE SELLER: The seller may cancel this contract if there is any unpaid past due bill, or if the property and assets of the buyer are in liquidation. If the buyer shall fail to furnish shipping instructions and/or packages as herein provided, the seller may

(1) Cancel the contract; or

(2) Terminate the contract, the buyer to pay to the seller as liquidated damages on wheat flour remaining unshipped by reason of buyer's breach or default, the sum of:

(a) One-third of one cent (⅓c) per day per barrel on flour, and one cent (1c) per day per ton on feeds, from the date of sale to the date of termination, as the expense of carrying; plus

(b) Twenty cents (20c) per barrel as the cost of selling; and

(c) Plus or minus the difference between the market value of a bushel of cash wheat at mill on the date of sale and on the date of termination, multiplied by 4.6 times the number of barrels of flour. This amount is to be added if the price of cash wheat is lower, and subtracted if the price of cash wheat is higher, upon the date of termination.

And as to any commodities other than wheat flour remaining unshipped by reason of buyer's breach or default, the difference between the purchase price specified thereof (after first deducting from such purchase price the amount of freight allowance, if any, on such products) and the value thereof to the seller in carload lots at point of shipment, if such value be less than such purchase price; but if such value is greater than such purchase price, the difference shall be credited to the buyer solely in reduction of damages, if any, recoverable by the seller under the paragraph "Rights of the Seller" on wheat flour, if any.

If the buyer shall fail or refuse to accept and pay for any shipment under this contract in accordance with the terms thereof, then the seller may resell at public or private sale such shipment for account of the buyer and the buyer shall pay all loss, damage, and expense arising from such resale, and the seller shall have the right of exercising options (1) or (2) on any portion of this contract remaining unshipped.

RIGHTS OF THE BUYER. If shipments are not made by the seller within the time of shipment, unless for causes beyond seller's control, buyer may

(1) Cancel the contract; or

(2) Terminate the contract, the seller to pay to the buyer the difference between the contract price and the market value of the commodity covered by this contract at the date of default at the point of delivery; or

(3) Extend the contract thirty (30) days, subject to a reimbursement charge to the buyer of one-third of one cent (⅓c) per day per barrel on flour and one cent (1c) per day per ton on feeds.

PROVISION FOR AUTOMATIC EXTENSION. If the buyer shall fail to furnish shipping instructions and/or packages to reach the seller at its main office fourteen (14) days before the expiration of original contract period—unless the seller elects to treat such failure as a breach or default—this contract shall without notice automatically be extended from day to day until the buyer furnishes shipping instructions or the seller exercises its rights as specified herein under the caption "Rights of the Seller," because of breach or default, and for each day during which the contract is thus automatically extended buyer will pay seller carrying charges of one third cent (⅓c) per day per barrel on flour and one cent (1c) per day per ton on feeds. In case the buyer is in default by reason of his failure to furnish shipping instructions and/or packages and does not intend to perform the contract, he may so notify the seller in writing, and in such case the contract shall be considered terminated as of the date of receipt by the seller of such written notice, and the amount of seller's damages will be determined as of the date of receipt of such written notice in accordance with the rule for ascertaining the measure of damages on termination of contract by seller as hereinbefore provided under "Rights of Seller."

NO MODIFICATION, TRANSFER, OR CHANGE OF DESTINATION SPECIFIED IN THIS CONTRACT SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF BOTH SELLER AND BUYER.

This contract is subject to confirmation by the seller at .....

Seller.

By.....

Buyer.

By.....

*At the annual meeting of the Federation in Chicago, May 16-17, 1929, request was made on behalf of a number of members that the Federation council draft a clause to be used in connection with the uniform sales contract which would enable millers who desired to do so to sell on the plan of naming a price for flour based on shipment as of the final date for shipment as named in the contract, and allowing the buyer a discount of [illegible] per day for the period between specified date of shipment and final date for shipment as fixed by the contract. The phrase submitted by Herbert J. Campbell, Federation counsel, to be inserted after the spaces in the uniform contract showing "Quantity," "Commodity," "Packages," etc., is as follows:

"The price named herein on all wheat flour is based on shipment as of the final date for shipment as fixed herein, and seller agrees that on any portion thereof ordered shipped in accordance with the terms of this contract prior to such date, seller will allow buyer a discount of one third (⅓) cent per barrel per day for the period between specified date of shipment and said final date for shipment as fixed herein."

It should be understood that there is only one form of sales contract bearing the approval of the Federation committee on sales contract and the Federation; that is, the Millers' National Federation Uniform Sales Contract. However, at the annual meeting of the Federation a resolution was adopted approving the principle of discount proposed in the phrase quoted above, and making no objection to the use by millers of such a contract containing such clause.

Winnipeg—Commission Rate

Under the rules of the Winnipeg Grain Exchange, the rate of commission for receiving and selling and accounting for on arrival, to arrive, or for some future month's delivery, is 1c per bu on wheat, barley, flaxseed, and rye, and five eighths of a cent per bu on oats.

Duluth Board of Trade

President, C. C. Blair; vice president, W. R. McCarthy; secretary-treasurer, Charles P. Macdonald; directors T. F. McCarthy, George Barnum, Jr., G. E. Robson, B. Stockman, F. P. Houghton, Ely Saltyards, G. H. Spencer, W. J. McCabe, H. J. Atwood.

PRINCIPAL EUROPEAN FLOUR MILLS

United Kingdom—Flour Mills

The number of mills at six principal British milling points, with their approximate total capacities in barrels per day, is given below:

City—	No. mills	Daily cap.
London	31	31,926
Liverpool	17	36,248
Manchester	9	12,150
Glasgow	6	6,000
Edinburgh-Leith	4	5,500
Belfast	3	2,516

LONDON AND DISTRICT—FLOUR MILLS

Mills in or around London, with their daily capacity in barrels:

A. W. Allen & Co., Ltd., Croydon	343
J. & W. Attlee, Dorking	136
C. & A. Botting, Guildford	171
Bowyer & Son, Guildford	171
Charles Brown & Co. (two mills), Shad Thames, Vauxhall, S.W. 1	2,230
Cannon & Gaze, Ltd., Erith, Kent	1,200
Co-operative Wholesale Society, Ltd., Silvertown	2,671
Cox's Lock Milling Co., Weybridge	611
E. & J. Fountain, Uxbridge	274
John W. French & Co., Ltd., Ware	137
J. W. French & Co., Ltd., Bow, E. 3	411
G. Garrett & Sons, Hertford	274
Hovis Bread Flour Co., Ltd., Vauxhall, S.W.	1,097
Keyes Daren Mills, Ltd., Dartford, Kent	686
S. Kidd & Co., Ltd., London, E.C. 3	1,371
W. King, Ltd., Uxbridge	137
Mark Mayhew, Ltd., Battersea, S.W. 11	1,371
Marriage, Neave & Co., Ltd., Battersea, S.W. 11	1,097
McDougalls, Ltd., Millwall, E. 14	337
S. P. Mumford & Co., Ltd., Greenwich Road, S.E. 10	840
D. Napper, Ltd., Sutton	205
Joseph Rank, Ltd., London, E.C. 3	6,171
H. W. Richards, Crayford, Kent	343
J. & H. Robinson, Greenwich, S.E. 10	2,057
Sun Flour Mills Co., Ltd., London, E.C. 3	1,131
Seth Taylor, Dockhead	1,500
H. & A. Trower, Ltd., Betchworth, Surrey	136
W. Vernon & Sons, London, E.C. 3	4,130
Co-operative Wholesale Society, Ltd., Romford	171
Co-operative Wholesale Society, Ltd., St. Albans	337
G. R. Wright & Sons, Ltd., Ponder's End, N.	274
Total capacity, bbls.	31,926

BELFAST—FLOUR MILLS

The Belfast mills and their capacities in barrels per day are as follows:

Isaac Andrews & Sons	1,500
James Neill & Co., Ltd.	350
Hughes, Dickson & Co.	666
Total	2,516

LIVERPOOL—FLOUR MILLS

The Liverpool and district flour mills have an approximate total capacity of 36,248 bbls daily.

Birkenhead—
- William Vernon & Sons, Ltd.
- Joseph Rank, Ltd.
- Buchanans Flour Mills, Ltd.
- Paul Bros.
- Spillers & Bakers, Ltd.

Burscough—R. & H. Ainscough.

Ellesmere Port—
- F. A. Frost & Sons, Ltd.
- Imperial Flour Mills, Ltd.
- King's Flour Mills, Ltd.

Liverpool—
- Joseph Appleby & Sons, Ltd.
- Edward Hutchinson, Mersey Flour Mills.
- Thomas Rigby & Son, Ltd.
- North Shore Mill Co., Ltd.
- Scott & Sons.
- W. O. & J. Wilson, Ltd.

Warrington—James Fairclough & Sons, Ltd.

Wrexham—Cobden Flour Mills Co.

MANCHESTER—FLOUR MILLS

The Manchester and district mills have a total daily capacity of approximately 12,150 bbls.

Manchester—
- Co-operative Wholesale Society (two mills)
- John Jackson & Son, Ltd.
- John Greenwood & Sons, Ltd
- Hovis Bread Flour Co., Ltd.
- Cunliffe & Swire
- William Sutcliffe & Sons.

T. Hulbert & Sons, Ltd.

Stockport—William Nelstrop & Sons.

Chorley—James Summer & Co., Ltd.

SCOTLAND—FLOUR MILLS

The daily capacity of the Glasgow mills is about 6,000 bbls. and that of the Edinburgh-Leith mills about 5,500. The names of the mills are as follows:

Glasgow—The Scottish Co-operative Society.
- The Craighall Milling Co.
- John Ure & Sons.
- J. & R. Snodgrass.
- John White & Sons.
- William Primrose & Son.
- Riverside Milling Co.

Leith—A. & R. Tod.
- The Scottish Co-operative Society.
- John Wilson & Co., Ltd.

Edinburgh—John Herdman & Sons.

Dundee—John F. White, Ltd.

Germany—Flour Mills

The leading flour mills of Germany are as follows:

Hamburg-Wilhelmsburg—Georg Plange.

Düsseldorf—Georg Plange.

Altona a.E.—H. W. Lange & Co. A.G.

Ludwigschafen a. Rh. — Ludwigschafener Walzmühle.

Dresden—T. Bienert.

Wurzen i. Sa.—Wurzener Kunstmühlenwerke und Biskuitfabriken vorm. F. Krietsch.

Mannheim—Germaniamühle Werner & Nicolai.

Kiel—Holsatiamühle.

Rüningen i. Brschwg.—Mühle Rüningen A.G.

Hameln a. Weser—Wesermühlen A.G.

Crefeld-Linn—Crefelder Mühlenwerke.

Köln-Deutz—Leyniaffer & Lietzmann.

Landeshut i. Schles.—Landeshuter Mühlenwerke.

Königsberg i. Pr.—Königsberger Walzenmühle.

Riesa a. Elbe—Gebrüder Schönherr.

Worms a. Rh.—Heff'sche Kunstmühle.

Munster i. Westf.—F. Kiesekamp.

Breslau—Schlesische Mühlenwerke.

Niederlahnstein i. Hessen—Akt.-Ges. der Löhnberger Mühle.

Breslau—Hielschowsky-Weigert-Werke A.G.

Heidelberg—Herrenmühle.

Duisburg—Rhein. Mühlenwerke Cohen & Co.

Dolzschen b. Dresden—König-Friedrich-August-Mühlenwerke.

Fürstenberg i. Meckl.—L. Behrns, Mühle.

Holland—Flour Mills

The leading flour mills in the Netherlands are as follows:

Rotterdam—
- Bloem-en Meelfabriek d'Blaauwe Molen, Van Woudenberg & Van Stolk.
- Meelmolen "Hollandia" v/h J. A. Bax & Co.
- Meelfabriek "Kralingen" v/h Viruly & Ruvenswaay.

Hilligersberg—Meelfabriek den Boera.

Leiden—Wed. T. J. Bots.
- Meelfabriek "De Sleutels" de Koster & Co.
- N.V. Koopmans' Meelfabrieken.

Amsterdam—Stoom Meel-en Broodfabriek "Ceres" v/h G. A. Nering Bögel.
- Handelmaatschappij Stolp & Co.
- Stoom-Meelfabriek "Holland."

Leeuwarden and Sneek—Stoom-Meelfabriek "Fortuna."

Zaandam—C. Kamphuys' Fabrieken.

Rijswijk (Z. H.)—Stoom-Meelfabriek v/h N. Koechlin & Co.

Gouda—Electrische Meelfabriek "De Korenbloem" C. K. Galama.

Utrecht—Maatschappij "De Korenschoof."
- Utrechtsche Brood-en Meelfabriek.

Heereveanden—Stoom-Meel-en Broodfabriek G. C. Kosters.

Stadskanaal (Gem. Onstwedde)—Electrische Meelfabriek v/h Wed. J. P. Kuipers.

Rotterdam, Middelburg and 's Hertogenbosch—Meelfabrieken der Nederlandsche Bakkerij.

Alkmaar and Schagen—P. Meurs Pzn.

Heemstede—Meelfabriek "De Nachtegaal" H. H. Hecker & Zonen.

Havenwerg, Helmond—Stoom-en Waterwalsen Meelfabriek J. R. Nolen.

Deventer—Industrieele Maatschappij v/h Noury & Van der Lande.

Sas Van Gent—Walsenmolen "Sas Van Gent" v/h J. Verschaffel & H. Mechelynck.

Echt—J. Van de Venne.

Weert—Meelfabrieken te Weert v/h Gebr. Van de Venne.

Wormerveer—Wessanen's Koninklijke Fabrieken.

Sneek—N. J. Wouda's Meelfabriek.

Denmark—Flour Mills

The principal flour mills in Denmark are as follows:

Copenhagen—Blegdamsmøllen.
- Havnemøllen.
- Toldbodmøllen.

Slagelse—Slagelse Dampmølle.
- Slagelse Valsemølle.

Ringsted—Ringsted Dampmølle.

Holbæk—Holbæk Dampmølle.

Svinninge—Svinninge Valsemølle.

Tappernøje—Tappernøje Dampmølle.

Nykøbing F.—Dampmøllen i Nykøbing F.

Maribo—Maribo Dampmølle.

Nakskov—Nakskov Dampmølle.

Svendborg—Svendborg Dampmølle.
- Svendborg-Oxenbjerg Dampmølle.

Odense—Munke Mølle.
- Dampmøllen "Viktoria."

Nyborg—Slotsmøllen.

Vejle—Vejle Dampmølle.

Esbjerg—Valsemøllen.

Horsens—Horsens Dampmølle.

Aarhus—Aarhus Dampmølle.

Hadston—Hadsten Mølle.

Rindsholm pr. Viborg—Rindsholm Mølle.

Randers—Dampmøllen "Olympia."

Aalborg—Aalborg nye Dampmølle.
- Havnemøllen.

Thisted—Thisted Dampmølle.

Hadersley—Hadersley Slotsvandmølle.

Belgium—Flour Mills

The principal flour mills in Belgium are as follows:

Beez (Namur)—Moulins de Beez.

Boom—Moulins Rypens.
- Moulins Lenie.

Brussels—Meunerie Bruxelloise (Avenue de Vilvorde).
- Moulins Ricquier (Quai des Usines).

Chatelineau (Hainaut)—La Royale, Soc. Anon des Moulins à Vapeur.

Chenée—Moulins J. Trokay.

Deynze—Moulins de Deynze et des Flandres.

Gand—Nouveaux Moulins "Gand & Bruges."
- Moulins Vanderstraeten.

Louvain—Moulins Remy.
- Moulins "Hungaria."
- Moulins "La Vignette."

Malines—Moulins Nielsen.

Marcinelle—Moulins Brisack freres.

Marchienne-au-Pont—Moulins à Vapeur de Marchienne-au-Pont.

Merxem (Anvers)—Soc. Anon. Anversoise des Moulins.
- Meunerie Herkens.

Tamise—Moulins de Tamise.

Tornai—Moulins Lefevre.

Vilvorde—Societe des Moulins des Trois Fontaines.

Hungary—Flour Mills

The leading flour mills of Hungary are as follows:

Budapest—Elizabeth.
- Erste Budapester Dampfmühle Actien-Gesellschaft.
- Louisen.
- Pester Müller und Bäcker.
- Pester Walzmühle.
- Concordia Mills.
- Gizella Mills.
- Hungaria Mills.
- Victoria Mills.

Miskolc and Debrecin—Borsod-Miskolcer und Debrecner Istvan Dampfmühle Actien-Gesellschaft.

Cegled—Cegleder Walzmühle Actien-Gesellschaft.

Bekes-Csaba—Erste Bekes-Csabaer Martin Rosenthal Dampfmühle A.G.

Nagykanizsa — Transdanubia Vereinigte Dampfmühlen A.G.

France—Flour Mills

The Journal Officiel has published the results of a census taken on Oct. 1, 1924, of the number of flour mills in France, together with their grinding capacity. The results are shown in the following table:

Daily capacity—	Number	Total daily capacity
Less than 28 bbls	11,360	132,064
From 28 to 90 bbls	2,408	121,980
From 90 to 168 bbls	696	89,543
From 168 to 336 bbls	308	76,954
From 336 to 560 bbls	69	30,895
Over 560 bbls	55	89,264

The leading flour mills in France are listed below:

Paris—Grands Moulins de Paris.

Corbeil—Grands Moulins de Corbeil.

Pantin—Grands Moulins de Pantin-Paris.

St. Etienne—Aulagnon & Cie.

Lyon—Chambeyron & Cie.
- Grandes Minoteries les Fils de Joseph Convert.

Dunkerque—E. & G. Fichaux.

Strasbourg—Minoteries Alsaciennes.
- Grands Moulins de Strasbourg.

Marseilles—Etablissements Louis Remusat.
- Michel Storione.
- Felix de Chomel.
- Semouleric Nouvelle de Marseilles.

Tonnerre—Roy-Gallois Fils.

Vienne—Reygner.

Fiers—Russo & Cie.

Castete-en-Dorthe—Turpaud.

Mertagne-s/-Gironde—Parias Frères.

Redon—Deniaud.

Chatillon-sur-Indre—Jacques Mirault.

Cauneille-les-Peyrehorade—Larran Frères.

Nantes—Grands Moulins de la Loire.

Marquette les Lille—L. & E. Despretz.

Rouen—Le Bocq.

Sweden—Flour Mills

In Sweden there are several fair sized, up-to-date wheat and rye mills. These obtain the largest proportion of the flour trade of Sweden. They are as follows, with daily capacities in barrels:

A/B Mårten Pehrsons Valskvarn, Kristianstad	4,000
A/B Malmö Stora Valskvarn, Malmö	4,000
Kalmar Ångkvarns Kommanditbolag, Kalmar	3,500
A/B Saltsjökvarn, Stockholm	2,000
Kvarnaktiebolaget Tre Kronor, Stockholm	2,000
Kvarnaktiebolaget J. G. S., Norrköping	2,000
Trälleborgs Ångkvarns m. fl. industriers A/B, Trälleborg	2,000
J. Jacobssons A/B, Halmstad	1,500
Hälsingborgs Ångkvarns A/B, Hälsingborg	1,500
Uppsala Ångkvarns A/B, Uppsala	1,200
A/B Falkenberg Elektriska Valskvarn, Falkenberg	1,000
A/B Landskrona Valskvarn, Landskrona	1,000
A/B Nyköpings Storhuskvarn, Nyhamn köping	1,100 1,200
Handels A/B P. G. Jansson, Kristine[illegible]	

The A/B Saltsjökvarn, Stockholm, belongs to the Ko-operativa Förbundet (the Co-operative Wholesale Society) of Sweden.

Norway—Flour Mills

The leading flour mills in Norway are as follows:

Oslo—Björsen Valsemölle A/S.
- Peter Larsen & Co.
- Lysaker Mölle.

Moss—Moss Aktiemöller.

Kambo—Fellesklöpets Mölle.

Larvik—Fritzöe Möller.

Skien—Skiens Aktiemölle.

Kristiansand—A/S Christiansands Möller.

Stavanger—Aktiesclskabet Tou.

Bergen—Björsvigs Melforretning.
- A/S Hexxgernæs Valsemölle.
- Vaksdal Mölle (government mill).
- M. G. Risöen.
- A/S Ragnar E. Næss.

Trondhjem—I. C. Pleno & Sön A/S.

Italy—Flour Mills

The following are the principal mills in Italy:

Ancona—Molino a cilindri C. Brugiapaglia.

Bologna—F. & O. F.LLI Bertagna.
- Societa Molini Veneto-Emiliani.

Cremona—Ditta Molino Rapuzzi.

Genoa—Semoleria Italiana.
- Carlo Molinari fu Carlo.

Genoa and Cagliari—Soc. Esercizio Molini.

Genoa and Milan—Soc. di Macinazione Mulini Certosa.

Lucca—Fratelli Mandoli.

Macerata—Canestrari e Butteri.

Milan—Verga Fratelli.

Parma—Societa Parmense di Macinazione.

Pesaro—Molino Albano.

Rome—Biondi A.
- Molino Centrale gia Fratelli Franco.

Rome and Naples—Societa Anon. Molini & Pastificio Pantanello.

Sacile—Molini Sacilese.

Siena—Giov. Muratori e Cia.

Torino—Molini Vottero.
- Molino Dora—Soc. Anon.

Venice—Giovanni Stucky.

Vicenza—Soc. Anon. Molini Veneto Piemontesi.

Greece—Flour Mills

The leading flour mills of Greece are as follows, with daily capacity in barrels:

M. Assimomytis & Co., Syra	886
B. Constantopoules, Piræus	1,120
"Evrotas" Flour Mills, Ltd., Piræus	2,240
Flour Mills of Messinia, Ltd., Calamata	1,288
Flour Mills of Patras, Ltd., Patras	1,076
"Loulis" Flour Mill, Ltd., Volos	1,120
Moulins St. Georges S. A., Keratsini Bay	1,680
George Nicoletopoulos, Piræus	1,120
Sté. Ame Industrielle, Salonica	1,680
D. Stamatiou, Piræus	1,120

Jugoslavia—Flour Mills

The leading flour mills in Jugoslavia are as follows:

Zacharia Mills, Belgrade.

Union Mills, Osieck.

Narodna Mlinska, Zagreb.

Steam Mills, Ltd., Veliki Kikinda.

Mills Strasser and König, Vel. Beckerek

Roller Mills, Ltd., Sombor.

Ludwig Franz Söhne Mills, Maribor

Balkan Mills, Skopije.

Zivko Stojikovic Mills, Leskovac

Ignat Balloni Mills, Mala Krsna.

Czechoslovakia—Flour Mills

The leading flour mills in Czechoslovakia are as follows:

Gottfried Ludwig Mills, Ltd., Bratislawa (formerly Pressburg).

Arpád Mills, Ltd., Neutra.

Amalgamated Milling Industry, Ltd., Bratislawa. (This combine comprises mills at Kaschau, Csány, Iglau, Nagysáros and Losonc.)

Prager Aktienmühle, Prague.

Odkolek Mills, Prague.

Daubek Mills, Brünnlitz.

Roumania—Flour Mills

The leading flour mills of Roumania are as follows:

Bucharest—Moara Comerciala.
- Asan Mills.

Oradea Mare—Vereinigte Grosswardeiner Laszlo und Hunyadi A.G.

Arad—Brüder Neumann.

Timisoara—Temesvarer Kunstmühle.
- Bega Mills.

Galatz—Moara Steaua.

Craiova—Mendl Steam Mills.

Norway and Sweden—Cereal Mills

Following is a list of cereal mills, other than flour mills, in Norway and Sweden

NORWAY—OAT PRODUCTS

Aktieselskapet Bjørn, Bergen.

Rauma Mølle A/S, Aandalsnes.

Sand Dygdemølle, Grimstad.

Moss Aktiemölle, Moss.

Moss Rismølle A/S, Moss (rice mill)

Krossens Havremølle, Sandnes.

Sandnes Mølle A/S, Sandnes.

Stangeland Mølle, Sandnes.

SWEDEN—BARLEY GRIT

A/B Gävle Valskvarn, Gävle.

A/B A. Heyman, Vårgårda.

Mjölby Kvarn A/B, Mjölby.

P. O. Stokkebyes Kvarn A/B, Göteborg.

Ståhlbom & Co., A/B, Norrköping.

A/B Uppsala Valskvarn, Uppsala

Uppsala Ångkvarns A/B, Uppsala.

A/B Örebro Kvarn, Örebro.

SWEDEN—CORN GRITS

Ståhlbom & Co., A/B, Norrköping.

SWEDEN—MACARONI GRIT

Norrköpings Makaronifabrik, Åby.

SWEDEN—SEMOLINA GRIT

A/B Falkenbergs Elektriska Valskvarn, Falkenberg.
- Handels A/B P. G. Jansson, Kristinehamn
- Kvarn A/B J. G. S., Norrköping.
- A/B Saltsjökvarn, Stockholm.

SWEDEN—POTATO MEAL

Svenska Chokladfabriks A/B, Ljungsbro.

SWEDEN—RICE GRIT

Kalmar Ångkvarns Kommanditbolag, Kalmar.

SWEDEN—SAGO GRIT

Svenska Chokladfabriks A/B, Ljungsbro.

SWEDEN—OAT GRIT

A/B A. Heyman, Vårgårda.

Kalmar Ångkvarns Kommanditbolag, Kalmar.

Molkoms Kvarn- & Grynverk, Molkom.

A. Wilh. Petris Grynfabriks A/B, Vetlanda.

P. O. Stokkebyes Kvarn A/B, Göteborg.

A/B Uppsala Valskvarn, Uppsala.

Uppsala Ångkvarns A/B, Uppsala.

SWEDEN—WHEAT GRIT

Handels A/B P. G. Jansson, Kristinehamn

A/B Landskrona Valskvarn, Landskrona

Molkoms Kvarn- & Grynverk, Molkom.

A/B Saltsjökvarn, Stockholm.

A/B N. Sandbergs Valskvarn, Ystad.

A/B Ystads Franska Ångkvarn, Ystad.

Pocket the Profit—The Mill Pests are stealing from under your nose!

This year of all years is no time to tolerate loss due to Moth, Weevil and Rodents

If Your Mill is Old and Does Not Permit Thorough Sealing for Fumigation

READ THIS:

To meet the demand for an effective mill spray for use around machinery, elevator legs and bins, Larvacide Service has developed

"SERVACIDE"

Use it at any time, even while the mill is in operation. It kills moths, weevil and insects with a vengeance.

Write for information.

LARVACIDE —*the Ideal Mill Fumigant*

does a quick, sure job in ridding flour mills of the pest scourge. It kills all forms of insect life even to the egg and larvæ. Nothing escapes its penetrating, permeating fumes.

Larvacide is safe for your men to use, as it announces its presence through harmless action on the tear ducts, thus giving full warning to all humans.

If you prefer to have our service men do your fumigating at regular intervals inquire about our "Control Method of Mill Fumigation." Learn how it saves you more than its cost and you *pocket the profit* that otherwise would be an irretrievable loss.

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R. Herschelroth & Co., 1210 Jackson St., Toledo, Ohio.
Bode Fumigating Co., 1259 Harrison Av., Cincinnati, Ohio.
Larvacide Service, Inc., S. W. Warehouse Corp. Bldg., 18th and Campbell Sts., Kansas City, Mo.
Twin City Exterminating Co., 2399 University Ave., West St. Paul, Minn.
Orkin Exterminating Co., 82 Courtland St., Atlanta, Ga.
Ansul Chemical Co., Modesto, Cal.

LARGEST U. S. MILLING FIRMS

Following is a summary of the composition of the largest milling companies in the United States:

General Mills, Inc., of Minneapolis, with a total wheat flour milling capacity of 83,800 bbls, controls the following companies:

Washburn Crosby Co., Inc., Minneapolis, with mills at Minneapolis (9), 21,050 bbls; Chicago, Ill., 3,300; Louisville, Ky., 2,000.

Washburn Crosby Company, Kansas City, Mo., 6,600.

Washburn Crosby Company, Inc., Buffalo, N. Y., 20,000.

Royal Milling Co., Great Falls, with mills at Great Falls, Mont., 2,500; Kalispell, Mont., 400; Pasco, Wash., 700; Ogden, Utah, 1,000.

Kell group, with mills at Oklahoma City, Okla., 2,200 bbls; Perry, Okla., 600; Waco, Texas, 800; Vernon, Texas, 700; Amarillo, Texas, 1,050; Wichita Falls, Texas, 2,800.

Sperry Flour Co., San Francisco, with mills at Vallejo, Cal., 3,600; Spokane, Wash., 1,800; Tacoma, Wash., 5,000; Ogden, Utah, 2,000.

Red Star Milling Co., Wichita, Kansas, 4,700.

El Reno (Okla.) Mill & Elevator Co., 1,100.

Larrowe Milling Co., Detroit, Mich., feed.

General Mills, Inc., through these companies also controls rye milling capacity of 2,200 bbls and corn milling capacity of 3,475 bbls. The combined capacities for wheat, rye and corn total 89,475 bbls.

Pillsbury Flour Mills Co., Minneapolis, has a total wheat flour milling capacity of 43,400 bbls, with plants at Minneapolis (5), 21,900 bbls; Atchison, Kansas, 2,600; Buffalo, N. Y., 10,000; Enid, Okla., 3,500; Astoria, Oregon, 4,000; Springfield, Ill., 1,500; also 1,500 bbls of rye capacity at Minneapolis.

Commander-Larabee Corporation, Minneapolis, controls the following companies, with a total wheat flour milling capacity of 31,150 bbls:

Commander Milling Co., with mills at Stillwater, Minn., 900; Montgomery, Minn., 3,000.

Empire Milling Co., mill at Janesville, Minn., 1,300.

Northland Milling Co., mill at Madelia, Minn., 1,200.

Big Diamond Mills Co., mill at Morristown, Minn., 1,250.

Minneapolis (Minn.) Milling Co., 3,000.

Larabee Flour Mills Co., with plants at Clinton, Mo., 1,200; St. Joseph, Mo., 6,000; Hutchinson, Kansas, 2,500; Wellington, Kansas, 1,600; Marysville, Kansas, 700; Topeka, Kansas, 1,000.

Buffalo (N. Y.) Flour Mills Corporation, 2,000.

Monarch Milling Co., Kansas City, 5,500.

Standard Milling Co., New York, controls the following companies, with a total wheat flour milling capacity of 30,600 bbls:

Hecker-Jones-Jewell Milling Co., Buffalo, 5,000.

Northwestern Consolidated Milling Co., Minneapolis (six units), 14,000.

Duluth-Superior Milling Co., Duluth, Minn., 5,600.

Southwestern Milling Co., Inc., Kansas City, Mo., 6,000.

International Milling Co., Minneapolis, controls the following companies, with a total wheat flour milling capacity of 22,450 bbls.

Blue Earth (Minn.) City Mills, 800 bbls; New Prague (Minn.) Flouring Mills, 2,300; Wells (Minn.) Flour Mills, 650; Mystic Mills, Sioux City, Iowa, 1,200; Western Flour Mills, Davenport, Iowa, 2,500; Robin Hood Mills, Ltd., with mills at Calgary, Alta., 2,000, Saskatoon, Sask., 3,000, and Moose Jaw, Sask., 4,000; International Milling Co., Buffalo, N. Y., 6,000.

Flour Mills of America, Inc., Kansas City, controls the following companies, with a total wheat flour milling capacity of 21,150 bbls:

Kansas Flour Mills Corporation, with mills at Kansas City, Mo. (2), 4,850 bbls; Anthony, Kansas, 875; Enterprise, Kansas, 1,000; Great Bend, Kansas, 1,400; Pratt, Kansas, 600; Alva, Okla., 1,025; Cherokee, Okla., 600; La Crosse, Wis., 4,500 (idle); Sleepy Eye, Minn., 2,000 (idle).

Valier & Spies Milling Corporation, with plants at St. Louis, 3,200; Marine, Ill., 500, St. Jacob, Ill., 600.

Colorado Milling & Elevator Co., Denver, controls the following series of companies throughout western states, with a total wheat flour milling capacity of 15,000 bbls:

Alamosa (Colo.) Flour Mills, 295 bbls; Farmers' Flour Mills, Berthoud, 350; Crescent Flour Mills, Denver, 710; Eagle Flour Mills, Denver, 230; Excelsior Flour Mills, Denver, 300; Hungarian Flour Mills, Denver, 1,250; Farmers' Union Mill, Denver, 600; Eaton (Colo.) Flour Mills, 370; Fort Collins (Colo.) Flour Mills, 335; Rock Flour Mills, Golden, 175; Mesa Flour Mills, Grand Junction, 325; Model Flour Mills, Greeley, 615; Lamar (Colo.) Flour Mills, 775; Longmont (Colo.) Flour Mills, 260; Loveland (Colo.) Flour Mills, 350; Monte Vista (Colo.) Flour Mills, 300; Pueblo (Colo.) Flour Mills, 550; Burley (Idaho) Flour Mills, 650; Caldwell (Idaho) Flour Mills, 300; St. Anthony (Idaho) Flour Mills, 295; Pocatello (Idaho) Mill & Elevator, 520; Twin Falls (Idaho) Flour Mills, 615; Weiser (Idaho) Milling & Elevator Co., 415; Claflin (Kansas) Flour Mills, 600; Dodge City (Kansas) Flour Mills, 1,190; Hays City (Kansas) Flour Mills, 1,004; Wilson (Kansas) Flour Mills, 620; Husler Flour Mills, Salt Lake City, Utah, 1,000.

Russell-Miller Milling Co., Minneapolis, has a total wheat flour milling capacity of 14,900 bbls, with plants at Minneapolis, 3,500 bbls; Buffalo, N. Y., 3,000; Billings, Mont., 1,050; Sidney, Mont., 550; Dickinson, N. D., 850; Grand Forks, N. D., 1,000; Jamestown, N. D., 1,000; Mandan, N. D., 750; Minot, N. D., 1,650; Valley City, N. D., 1,800; Bismarck, N. D., 250.

Branding of Bran and Screenings

The Department of Agriculture gives the following as its interpretation of mixtures of bran and screenings:

"We are of the opinion that the designation 'bran and screenings' properly designates a mixture of bran with less than 50 per cent screenings. The designation does not, in our opinion, necessarily mean that the bran contains screenings in addition to screenings contained in the wheat from which the bran was made. It may, however, be used to cover a mixture of bran with screenings in excess of the screenings contained in the wheat from which the bran was prepared, provided that the screenings amount to less than 50 per cent of the mixture.

"Under the national law, it is not necessary to state the percentage of screenings, but there is no objection to such a statement. If a statement is made, however, it must be in accordance with facts.

"It is our understanding that certain of the states, under their state feedingstuffs laws, will require a statement of the percentage of screenings. . . .

"We are of the opinion that the term 'wheat bran with mill run screenings' correctly describes a mixture of wheat bran with the entire mill run of screenings. Such a mixture as this is supposed to contain the whole mill run of screenings, not a portion of the same, and it is not supposed to contain screenings in excess of the screenings in the wheat from which the bran was prepared.

"We are of the opinion that the term 'wheat bran with screenings not exceeding mill run' correctly describes a mixture of bran with the whole mill run of screenings or bran with a portion of the mill run of screenings, provided that such portion is representative of the screenings and is not an inferior portion thereof. The designation 'wheat bran with screenings not exceeding mill run' would not properly describe a mixture of wheat bran with an inferior portion of the mill run of screenings added.

"The same principles that apply to labeling mixtures of bran and screenings also apply to labeling mixtures of other flour millfeeds and screenings."

Meaning of "Sack" and "Bag"

In trade with the United Kingdom, the word "sack" signifies 280 lbs. A "bag" signifies 140 lbs.

The capacity of British mills is rated in sacks of 280 lbs per hour. What is known as a 20-sack mill has a capacity, according to American standards, of about [illegible] bbls per day of 24 hours.

Southwestern Mill Groupings

Following are principal large mill groupings of the Southwest:

GENERAL MILLS, INC.	
Kansas City	6,500
Kansas	4,400
Oklahoma	4,100
Texas	4,100
Total	19,100
COMMANDER - LARABEE CORPORATION	
Kansas City	5,500
St. Joseph	6,000
Kansas	4,100
Missouri	1,200
Total	16,800
KANSAS FLOUR MILLS CO.	
Kansas City	4,650
Kansas	4,500
Oklahoma	1,625
Total	10,775
PILLSBURY FLOUR MILLS CO.	
Kansas	2,400
Oklahoma	4,000
Total	6,400
STANDARD MILLING CO.	
Kansas City	6,000
MOORE-LOWRY GROUP	
Kansas City	1,500
Kansas	4,500
Oklahoma	1,500
Total	7,500
KANSAS MILLING CO. GROUP	
Kansas (three mills)	4,600
CONSOLIDATED FLOUR MILLS CO.	
Kansas (five mills)	4,350
MIDLAND FLOUR MILLING CO.	
Kansas City	1,800
Kansas	1,200
Oklahoma	850
Total	3,850
COLORADO MILLING & ELEVATOR CO.	
Kansas (four mills)	3,375
Total, 10 groups	82,050

The total daily capacity of mills of Kansas City, St. Joseph, Mo., Kansas and Oklahoma is, according to The Northwestern Miller compilation, based on annual reports from mills, [illegible] bbls. The capacity of centrally owned mills in the same field (Texas and interior Missouri mills eliminated from above compilation) is [illegible] bbls, or approximately 57 per cent. The five large companies with milling interests in districts other than the Southwest own and operate about [illegible] per cent of the total capacity in Kansas and Oklahoma and on the lower Missouri River.

WORLD IMPORT DUTIES ON GRAIN AND ITS PRODUCTS

(Subject to Change)

At the request of The Northwestern Miller, the Division of Foreign Tariffs, Bureau of Foreign and Domestic Commerce, United States Department of Commerce, has supplied the following data covering import duties on wheat, flour and bran, as of Jan. 15, 1931.

The department points out that it cannot guarantee that the rates here given will be applied to particular shipments, since duties are subject to change at any time. These duties should be confirmed after a lapse of some months.

When two or more rates of duty for the same article are indicated, products of the United States as a rule are admitted at the lowest ("minimum") rate, except (a) into Canada, where the "general" rate applies; (b) into other British colonies, where the "preferential" rate does not apply to non-British imports.

With regard to duties on Canadian grain and its products, the Foreign Tariffs Division, Department of Trade and Commerce of Canada, has advised The Northwestern Miller that in all parts of the British Empire (except Australia), where there is a British preferential tariff, the preferential rate applies to the Canadian product.

With the following foreign countries Canada has treaty relationship which would guarantee the lowest rate of duty in force: Argentina, Belgium and colonies, Luxemburg, Colombia, Czechoslovakia, Denmark, Esthonia, Finland, France and colonies (some goods, including wheat and flour), Hungary, Italy and colonies, Japan, Jugoslavia, Latvia, Lithuania, Netherlands, Netherlands Indies, Surinam, Curacao, Norway, Portugal, including Madeira, Porto Santo and Azores, Roumania (special arrangement), Spain, Sweden, Switzerland and Venezuela.

As a guide to currency values, in most instances the rates for cable transfers fixed by the Federal Reserve Bank of New York on Jan. 15, 1931, are given.

Europe

All rates of duty per 100 kilos (220.46 lbs) unless otherwise specified.

ALBANIA

Duties in gold francs per 100 kilos (220.46 lbs). Par value of franc $0.193; used for customs purposes.

	Duty in gold francs
Wheat of all kinds	3.00
Wheat flour	37.50
Bran	6.00

In addition to the import duty, there are surtaxes amounting to 13 per cent of the amount of duty, plus 1 per cent ad valorem.

AUSTRIA

Duties are stated in gold crowns, but payable in Austrian schillings. At present, one gold crown equals 1.44 schillings; 1 schilling values $0.1407 at par; exchange value Jan. 15, 14.0771c.

	Duty in gold crowns per 100 kilos
Wheat and rye	2.00
Oats	1.50
Flour	5.00
Bran	Free

BELGIUM

Par value of belga, 13.90c; exchange value, Jan. 15, 13.9378c. Duties are paid in belgas at rate of five francs to the belga, and based on gross weight.

	Duty in francs
Oats	6.00
Other grain	Free
Oat flour	8.00
Other flour	4.00
Bran	Free

BULGARIA

Par value of lev, 19.3c; exchange value, Jan. 15, 0.7194c.

	Duty in gold leva
Flour of all kinds	12.00
Wheat	1.50
Feed and bran	Free

As paid in paper lev the duties on all products should be multiplied by 27. There is also an octroi tax of 20 per cent of the duties.

CZECHOSLOVAKIA

Par value of Czech crown, 2.96c; exchange value, Jan. 15, 2.9619c.

	Duty in crowns, maximum
Wheat	55.00
Wheat flour	145.00
Rye	88.00
Rye flour	145.00

Minimum rates have been canceled.

DENMARK

Par value of krone, 26.8c; exchange value, Jan. 15, 26.7215c.

Wheat, rye and their products	Free

ESTHONIA

Par value of franc, 19.3c, used for customs purposes.

	Duty in francs
Wheat, per gross kilo	0.15
Wheat flour, sifted, per gross kilo	0.32
Wheat flour, unsifted, per gross kilo	0.25
Bran	Free

FINLAND

Par value of mark, 19.3c; exchange value, Jan. 15, 2.5171c.

	Duty in marks
Wheat flour, white and semolina	210.00
Wheat flour, graham	125.00
Wheat	100.00
Bran	8.00

FRANCE

Par value of stabilized franc, 3.9179c; exchange value, Jan. 15, 3.9217c.

Wheat flour, 70 per cent extraction or more, gross weight	128.00
Wheat flour, 61 to 69 per cent extraction, net weight	160.00
Wheat flour, 60 per cent extraction and less, net weight	185.00
Oatmeal, gross weight	50.00
Barley meal, gross weight	44.50
Barley flour, gross weight	35.00
Corn meal, gross weight	38.40
Corn flour, gross weight	43.20
Rye flour, gross weight	30.00
Buckwheat flour, gross weight	30.00
Wheat, gross weight	30.00
Oats, gross weight	30.00
Barley, gross weight	21.00
Rye, gross weight	21.00
Corn, gross weight	24.00
Bran, gross weight	.80

GERMANY

Par value of reichsmark, 23.8c. Exchange value, Jan. 15, 23.7618c.

	Duty in reichsmarks General	Conventional
Flour of wheat and rye	51.00	....
Flour of barley and oats	51.50	....
Durum wheat for manufacture of semolina and starch	11.25	....
Other wheat	25.00	....
Rye	15.00	....
Bran	10.00	....

Taxe on flour: barrels, 13 per cent; sacks, 1 per cent. Taxe on wheat and rye: sacks, 1 per cent.

GREECE

Par value of metallic drachma, 19.3c; exchange value, Jan. 15, 1.2943c.

	Duty in metallic drachmas General	Conventional
Wheat flour	11.00	10.70
Wheat	7.50	6.50
Bran	3.00	2.00

Above duties are stated in metallic drachmas, but are payable in stabilized paper drachmas at the ratio of 15 paper drachmas to 1 metallic drachma. In addition to the duty, there are surtaxes amounting to three fourths of basic duty, payable at the same ratio.

HUNGARY

Par value of crown, 20.3c. Duties are paid in pengoes. At present, one gold crown equals 1.16 pengoes; value, Jan. 15, 17.4777c.

	Duty in gold crowns
Wheat	6.30
Wheat flour and semolina	12.00
Bran	Free

IRISH FREE STATE

Wheat, flour and bran	Free

ITALY

Par value of stabilized lira, 5.26c; exchange value, Jan. 15, 5.2348c.

	Duty in former gold lire
Wheat	16.50
Wheat flour	23.70
Bran	2.00

Duties stated in former gold lire, but paid in paper at a rate fixed at 3.67 paper lire to 1 gold lira.

LATVIA

Par value of lat, 19.3c. (Used for customs purposes.)

	Duty in lats
Bolted wheat flour	25.00
Unbolted wheat flour	10.00
Wheat	7.00
Bran	Free

Rye, wheat and flour are under government monopoly.

LITHUANIA

Par value of lita, 10c. (Used for customs purposes.)

	Duty in litas
Wheat, per kilo	0.30
Wheat flour, per kilo	0.90
Bran	Free

Government monopoly is authorized for rye and wheat, but not yet in operation for wheat.

NETHERLANDS

Par value of florin, 40.2c; exchange value, Jan. 15, 40.2319c.

Wheat, flour and bran, packed, ad valorem (c.i.f.)	8%
Wheat, flour and bran, in bulk	Free

The term "packed" applies to packages weighing not over 1.2 kilos.

NORWAY

Par value of krone, 26.8c; exchange value, Jan. 15, 26.7238c.

	Duty in crowns
Wheat and oat flour, wheat and bran	Free

POLAND

Par value of zloty, 11.22c; exchange value, Jan. 15, 11.2168c.

	Duty in zloty
Wheat	*17.50
Rye	16.50
Rye flour	16.50
Wheat flour	25.50
Other flour	16.50

*Free of duty under special permit.

PORTUGAL

Par value of escudo, $1.08. Exchange value, Jan. 15, 4.4933c.

	Duty in gold escudos
Bran, gross weight	0.006

Wheat and wheat flour may be imported only by authority of special decrees, which also fix the rates of duty.

ROUMANIA

Par value of stabilized paper leu, 0.6c.

	Duty in stabilized lei
Wheat	160.00
Wheat flour	400.00
Bran	50.00

There is a supplementary tax of 25.30 paper lei on wheat flour.

RUSSIA

Par value of ruble, 51.4c. Duties stated in gold. (Par value used for customs purposes.)

	Duty in rubles
Wheat, other grains and bran	Free
Flour, ad valorem	20%

Trade in Russia is a government monopoly.

SPAIN

Par value of peseta, 19.3c. (Par value used for customs purposes.)

	Duty in pesetas First tariff	Second tariff*
Wheat flour	63.00	21.00
Rye and other flour	27.00	9.00
Wheat	42.00	14.00
Rye and bran	48.00	12.00

*Applies to imports from United States.

Surtax on wheat, 7 gold pesetas per 100 kilos.

Duties are paid one fourth in gold and the remainder in silver or banknotes, plus gold surtax varying periodically.

Wheat and wheat flour are under import restriction.

SWEDEN

Par value of krone, 26.8c; exchange value, Jan. 15, 26.7622c.

	Duty in kronen
Wheat flour, rye flour, etc.	6.50
Wheat, rye, barley	3.70
Bran	Free

SWITZERLAND

Par value of franc, 19.3c; exchange value, Jan. 15, 19.3638c.

	Duty in francs
Grain and rice, except corn and wheat	0.60
Corn	0.50
Cereals, pearled, hulled, cleaned or crushed, groats and semolina, except oats	4.50
Wheat, spelt and maslin	20.00
Oats, hulled, cleaned or crushed	5.00
Flour, packages over 5 kilos	4.50
Flour, packages up to 5 kilos	40.00
Bran	0.30

TURKEY

Par value of piaster, 4.4c. Exchange value, Jan. 15, about 0.5c.

	Duty in Turkish paper pounds
Wheat	6.30
Wheat flour	9.50
Bran	1.60

Consumption tax, 6 per cent of c.i.f. duty paid value on all imports.

UNITED KINGDOM

Par value of pound, $4.865; exchange value, Jan. 15, $4.8545.

Wheat, wheat flour and bran	Free

JUGOSLAVIA

Par value of dinar, 19.3c; exchange value, Jan. 15, 1.7682c.

	Duty in gold dinars Maximum	Minimum
Wheat, rye and spelt	6.50	5.00
Wheat flour	14.00	8.00
Bran	2.00	1.50
Barley and oats		3.00
Maize		2.50

These duties are paid in paper, and should be multiplied by 11. There are also other minor charges.

North America

Rates of duty per 100 kilos (220.46 lbs) unless otherwise specified.

BRITISH HONDURAS

Value of dollar, $1. (Used for customs purposes.)

	Duty in dollars General	Preferential
Wheat, ad valorem	10%	5%
Wheat flour, imported direct, bbl of 196 lbs	$1.00	$0.25
If imported through foreign country	$1.00	$0.25
Bran, ad valorem	20%	10%

CANADA

Par value of dollar, $1; exchange value, Jan. 15, 99.7524c.

	Duty in dollars General	Preferential
Wheat, bu (60 lbs)	$0.30	Free
Wheat flour and semolina, bbl (196 lbs)	1.35	Free
Millfeed, ad valorem	17½%	15%

COSTA RICA

Par value of gold colon, 46.53c. Exchange value, Jan. 15, 4 colons equal $1 (used for customs purposes).

	Duty in colons
Wheat	6.00
Wheat flour	14.00
Bran and other wheat byproducts	Free

There is a surtax of 5 per cent of the duty on imports intended for the province of Limon, and one of 2 per cent of the duty on imports intended for interior provinces.

GUATEMALA

Par value of quetzal, $1 United States currency.

	Duty in quetzals
Wheat	2.00
Wheat flour	3.00
Bran	Free

Duty is collected in quetzals, equivalent to $1 United States currency.

Note: Importers of wheat and rye flours should present a certificate by the miller, legalized by the sanitary authorities of the country of origin, and visaed by the Guatemalan consul, certifying to their purity and quality. When this certificate is not presented, a fine equal to 25 per cent of the duty will be levied, and the flour will be held pending analysis by the local sanitary authorities.

HONDURAS

Par value of peso (silver), 48.26c. Exchange value, Jan. 15, 2.20 pesos to $1.

	Duty in pesos
Wheat flour	4.00
Bran	2.00
Wheat	2.00

Surtax of 5 per cent of duty paid in gold, which is equal to 10 per cent of the duty in pesos. Duty should be paid 60 per cent United States currency.

There are also other minor surcharges which amount to 0.09 peso per kilo.

MEXICO

Par value of peso, 49.85c; exchange value, Jan. 15, 46.17c.

	Duty in pesos
Flour, including immediate containers	19.00
Wheat	7.00
Bran	4.00
Corn	1.00

There is a surtax of 3 per cent of the duty on all dutiable articles.

Sacks and bags are included in the weight of these products, and also dutiable separately.

NEWFOUNDLAND

Par value of dollar, $1. Exchange value, Jan. 15, 99.7524c.

	Duty in dollars
Wheat	Free
Wheat flour, bbl (196 lbs), including duty on package	Free
Bran, 100 lbs	0.15

There is a duty of 75c per bbl which may be imposed on flour imported from any country whose fishermen have the privilege of taking fish from all parts of the coast of Newfoundland, but which impose duties on fish imported from the Dominion or its dependencies. This has been suspended to Sept. 30, 1931.

NICARAGUA

Par value of cordoba, $1. (Par value used for customs purposes.)

	Duty in cordobas
Wheat	0.50
Wheat flour	2.10
Bran	0.50

There is a surtax of 12½ per cent of the duty on flour, and 25 per cent of the duty on other goods.

PANAMA

Par value of balboa (gold), $1. (Par value used for customs purposes.)

	Duty in balboas
*Wheat and bran, ad valorem	15%
Flour, per 46 kilos	0.40

*If for sowing, free.

ST. PIERRE AND MIQUELON (FRENCH)

Duties in francs per 100 kilos (220.46 lbs) unless otherwise specified. Par value of franc, 3.9179c; exchange value, Jan. 15, 3.9217c.

Wheat	Free
Wheat flour, gross weight	0.35
Other flour, gross weight	3.00
Bran	0.60

SALVADOR

	*Duty in U. S. dollars
Wheat	$2.00
Wheat flour, superfine	7.00
Bran	10.40

Duties paid in colones at the rate of 2 colones to $1. To secure a certificate of entry for wheat flour, a certificate of purity should be presented.

*Duties include all charges and surtaxes.

UNITED STATES

	Duty in U. S. dollars
Wheat, bu, 60 lbs	$ .42
Wheat flour, 100 lbs	1.04
Semolina, 100 lbs	1.04
Corn, bu, 56 lbs	.25
Corn meal and flour, 100 lbs	.56
Oats, bu, 32 lbs	.25
Oatmeal, rolled oats, etc., 100 lbs	.16
Rye, bu, 56 lbs	.85
Rye flour and meal, 100 lbs	.15
Barley, bu, 48 lbs	.45
Buckwheat, 100 lbs	.20
Buckwheat flour, 100 lbs	.25
Macaroni, vermicelli, etc., lb	.04
	.02

United States—Continued

Oats and barley hulls, etc., 100 lbs...	.10
Flaxseed, bu, 56 lbs.....	.65
Linseed oil, lb	.045
Bran, shorts, etc., ton	10
Unground screenings, etc., ton	10
Ground screenings, ton	10
Cereal breakfast foods, etc.	20
Biscuits, cakes, etc.	30
Bread (yeast) .....Free of duty

*Where ad valorem rates apply, the duty is computed on the foreign market value or export value, whichever is highest, at the date of shipment to the United States.

West Indies

BRITISH WEST INDIES

Rates of duty in sterling per 100 lbs unless otherwise specified.

	General	British preferential
Antigua—		
Wheat	1s 6d	1s 0d
Wheat flour, bbl (196 lbs)	9s 0d	7s 0d
Feed	2s 0d	1s 4d

Surtax, 10 per cent of the duty on all imports.

Bahamas—		
Wheat, bu (60 lbs).....	4½d	3⅜d
Wheat or rye flour, bbl (196 lbs)	2s	Free
Bran	3d	2¼d
Barbados—		
Wheat	1s 0d	6d
Wheat flour, bbl (196 lbs)	5s 9d	3s 9d
Bran	1s 2d	7d

Surtax on imports, 10 per cent of the duty.

Bermuda—	Ad valorem	
Wheat	10%	3d
Wheat flour	10%	Free
Bran	10%	3d

There is a surtax of 25 per cent of the duty, except on British goods.

	General	British preferential
Dominica—		
Wheat	1s 6d	1s 0d
Wheat flour, bbl (196 lbs)	9s 4d	7s 4d
Bran	3s 1½d	2s 1d

Surtax 15 per cent of duty.

Grenada—		
Wheat	1s 6d	1s 0d
Wheat flour, bbl (196 lbs)	9s 0d	6s 0d
Bran	2s 0d	1s 4d
Jamaica—		
Wheat	2s 0d	1s 6d
Wheat flour, bbl (196 lbs)	9s 0d	7s 0d
Bran and middlings ...	2s 6d	1s 10½d
Montserrat—		
Wheat	1s 6d	1s 0d
Wheat flour, bbl (196 lbs)	9s 0d	7s 0d
Feed	2s 0d	1s 4d
St. Christopher and Nevis—		
Wheat	1s 6d	1s 0d
Wheat flour, bbl (196 lbs)	9s 0d	7s 0d
Feed	2s 0d	1s 4d

	General	British preferential
St. Lucia—		
Wheat	1s 6d	1s 0d
Wheat flour, bbl (196 lbs)	6s 6d	4s 6d
Bran	1s 6d	1s 0d

Surtax 25 per cent of duty on imports.

Virgin Islands (British)—		
Wheat	1s 0d	8d
Wheat flour, bbl (196 lbs), in quantities of 50 lbs or more	5s 0d	3s 0d
Wheat flour, lb, in quantities of less than 50 lbs	¾d	½d
Bran	2s 3d	1s 6d

Surtax on all imports, 2 per cent of duty.

St. Vincent—		
Wheat	1s 3d	0s 10d
Wheat flour, bbl (196 lbs)	5s 0d	4s 0d
Bran	1s 3d	0s 10d

Surtax 12½ per cent of duty.

Trinidad and Tobago—		
Wheat	2s 0d	1s 0d
Wheat flour, bbl (196 lbs)	3s 6d	1s 6d
Bran	1s 0d	0s 6d

Turks and Caicos Islands—		
Wheat, ad valorem....	10%	10%
Wheat flour, bbl (196 lbs)	3s 0d	3s 0d
Bran, ad valorem	10%	10%

CUBA

Rates in U. S. dollars per 100 kilos (220.46 lbs).

	General	U. S. preferential
Wheat, gross weight	$0.40	$0.32
Wheat flour, gross weight..	1.30	0.91
Bran	1.50	1.20

Plus surtax of 3 per cent of duty on bran. Duty on bran effective Feb. 5.

CURACAO (DUTCH WEST INDIES)

Duties in florins per 90 kilos (198.41 lbs). Par value of florin, 40.2c; exchange value, Jan. 15, 40.2319c.

Wheat and bran, ad valorem (c.i.f. valuation)	3%
Wheat flour	0.50

DOMINICAN REPUBLIC

Duties in U. S. dollars per 100 kilos (220.46 lbs).

Wheat and bran	Free
Wheat flour, net weight	$4.50

FRENCH WEST INDIES

Duties in francs per 100 kilos (220.46 lbs), unless otherwise specified. Par value of stabilized franc, 3.9179c; exchange value, Jan. 15, 3.9217c.

Guadeloupe—	
Wheat, net weight	1.25
Wheat flour, net weight	4.55
Bran, gross weight	0.80
Consumption tax on wheat flour, 1 franc per 100 net kilos. Surtax on all imports, except wheat flour (exempt), 4% ad valorem.	
Martinique—	
Wheat	3.00
Wheat flour	9.00
Corn	7.10
Corn meal	7.20
Bran, gross weight	0.80

Octroi tax on wheat, flour and bran, 3 francs per 100 kilos.

Surtax on all imports, 2% ad valorem.

HAITI

Duties in gourdes per 100 kilos at rate of 5 gourdes to one U. S. dollar.

Wheat flour, net weight	17.00
Bran, net weight	6.00
Wheat, net weight	5.00

South America

Rates per 100 kilos (220.46 lbs) unless otherwise specified.

ARGENTINA

Par value of Argentine gold peso, 96.5c.

Wheat, wheat flour, corn flour, farina, semolina and millfeed	Free

BOLIVIA

Par value of stabilized boliviano, 36.50c. Exchange value, Jan. 15, 35.2c.

	Duty in bolivianos
Wheat flour, gross weight.....	16.00
Wheat, gross weight	6.00
Bran, gross weight	1.50

There is a surtax of 20 per cent of the duty on wheat and bran.

Duties are paid in bolivianos.

BRAZIL

Par value of milreis (paper), 11.96c; exchange value, Jan. 15, 9.61c.

	Duty in paper milreis Nominal	Actual
Wheat, gross weight	1.000	0.804
Wheat flour, gross weight...	2.500	12.510
Bran and middlings, gross weight	2.000	10.008

"Actual" duties include 2 per cent gold surtax and the increase due to proportion of duty payable on a gold basis. The calculations are based on a value of 11.97c for the paper milreis, and are subject to change with its fluctuations.

If in barrels, tare allowance: wheat, 35 per cent; flour, 20 per cent; bran, 12 per cent.

BRITISH GUIANA

Par value of dollar, $1. (Par value used for customs purposes.)

	Duty in dollars General	British preferential
Wheat flour bbls (196 lbs)..	$1.38	$0.90
Grain of all kinds not specified, 100 lbs	.50	.35
Bran	.50	.35

There is a surtax of 3⅓ per cent of the duty on flour, and of 20 per cent of the duty on grain.

CHILE

Par value of peso, 12.17c. (Par value is used for customs purposes.)

	Gold pesos
Wheat flour, per 100 gross kilos.....	45.00
Bran, per 100 gross kilos.....	10.00

Wheat—When wheat is selling at 40 pesos or more, it is free of duty; when its price is 39 pesos, the import duty is 1 gold peso per 100 kilos, and this rate of duty is increased 1 peso for each peso of decline in price.

Surtax, 10 pesos per 100 kilos.

COLOMBIA

Par value of peso, 97.33c. (Par value is used for customs purposes.)

	Duty in pesos
Wheat and bran	2.00
Wheat flour	5.67

The duty on wheat is to be increased to 4.00 and on wheat flour to 9.00.

DUTCH GUIANA

Par value of florin, 40.2c; exchange value, Jan. 15, 40.2323c.

	Duty in florins
Flour, when packed in packages of 1 kilo or less, ad valorem (c.i.f.)...	16%
Flour, otherwise packed	3.50
Wheat and other grain	4.00
Millfeed	Free

ECUADOR

Par value of stabilized sucre, 20c. (Par value is used for customs purposes.)

	Duty in sucres
Flour, gross weight	15.00
Wheat, gross weight	10.00
Bran, gross weight	2.50

PARAGUAY

Par value of peso (Argentine gold), 96.5c. (Par value is used for customs purposes.)

	Duty in Argentine gold pesos
Wheat, gross weight	1.30
Wheat flour, gross weight	3.00
Corn meal, gross weight	4.00
Bran, gross weight	0.50

Surtax 1.5% ad valorem.

PERU

Stabilized value of sol, 40c, is used for customs purposes.

	Duty in sols
Wheat flour, gross weight	4.00
Wheat, gross weight	1.25
Bran, gross weight	1.00

There is a surtax of 21 per cent of the duty on imports at Callao, 22 per cent of the duty at Paita, Pisco, Chimbote, and Talara, and 20 per cent of the duty on imports at other ports. Also 2 per cent ad valorem on all freight shipments.

URUGUAY

Par value of peso, $1.0342. (Par value is used for customs purposes.)

	Duty in pesos
Wheat flour	2.70
Wheat	1.35
Bran	0.90

There is a surtax of 14 per cent ad valorem, based on a valuation of 8 pesos gold per 100 kilos for wheat flour and on the c.i.f. value of wheat.

Import of wheat prohibited conditionally.

VENEZUELA

Par value of bolivar, 19.3c. (Par value used for customs purposes.)

	Duty in bolivars
Wheat, gross weight	25.00
Wheat flour, gross weight	25.00
Bran, gross weight	5.00

There is a surtax amounting to 56.55 per cent of the duty.

Africa

ALGERIA AND MADAGASCAR

Same rates of duty as apply on similar products imported into France. Duties paid in French francs.

EGYPT

Egyptian pound (1,000 milliemes), $4.9431.

Wheat—Based on the c.i.f. quotation for Australian wheat at Egyptian ports, in terms of the London exchange, when Australian wheat is quoted at 95 English shillings or less per metric ton, the duty is 485 milliemes per 100 kilos, gross; for each 5s advance in the quotation above 95s, the import duty is decreased on a varying scale by 20 or 25 milliemes; when the quotation is 160s or more, the duty is fixed at 180 milliemes.

Wheat Flour—Based on the c.i.f. quotation for Australian flour at Egyptian ports in terms of the London exchange, when Australian flour is quoted at 120 English shillings or less per metric ton, the duty is fixed at 670 milliemes per 100 kilos, gross; for each 5s advance in the quotation above 120s, the duty is decreased on a varying scale by 20 or 30 milliemes; when the quotation is 200s or more, the duty is fixed at 320 milliemes.

In addition to the import duty, there is a quay tax of one tenth of the amount of duty.

MOROCCO

Wheat, wheat flour, bran, ad valorem 12½%

Ad valorem rates based on wholesale cash value of goods delivered at the custom house.

Importation of wheat into French Morocco is prohibited until further notice.

TUNIS

Rates in francs per 100 kilos (220.46 lbs). Par value of stabilized franc, 3.9179c. Exchange value, Jan. 15, 3.9217c.

Wheat	25.00
Flour, 70% extraction or above.....	45.00
Flour, 61 to 69% extraction.....	45.00
Flour, 60% extraction or below.....	52.00
Bran	1.62

UNION OF SOUTH AFRICA

	Duty in sterling Maximum	Minimum
Wheat, per 100 lbs.....	2s 2d	2s 0d
Wheat flour, per 100 lbs..	5s 0d	4s 5d
Bran, per 100 lbs	1s 2d	1s 0d

The minimum rates on wheat and flour apply to imports from the United Kingdom and Canada only. Those on bran do not apply to imports from any country.

Also a suspended duty of 6d on wheat, and 3d on flour, applicable at any time.

Asia and Australasia

AUSTRALIA

Rates in sterling per 100 lbs.

	General	British preferential
Wheat	2s 0d	Free
Wheat flour	5s 0d	Free
Bran	1s 3d	1s 0d

The preferential rates apply to imports from the United Kingdom and New Zealand.

There is also a sales tax of 2½% ad valorem and a primage tax of 4% ad valorem on imports.

CHINA

Duties are now paid in gold in terms of a new unit (equivalent to 40c, United States). The picul is 133.33 lbs.

Under the Chinese import tariff wheat and wheat flour are free of duty and bran subject to an import duty of 0.25 gold units per picul.

It is understood that the Chinese authorities collect a consumption tax of 10c Mex. per bag of 49 lbs on wheat flour; however, in Shanghai this tax is 10c, Shanghai currency, per bag of 50 pounds.

DUTCH EAST INDIES

Rates in Dutch florins. Par value, 40.2c. Exchange value, Jan. 15, 40.2323c.

Wheat and other grains (ad valorem, c.i.f.)	6%
Flour (ad valorem, c.i.f.).....	10%
Bran (ad valorem, c.i.f.)	6%

Surtax of 15% of the duty on all imports.

FRENCH INDO CHINA

Duties in francs per 100 kilos (220.46 lbs). Stabilized value of franc, 3.9179c; exchange value, Jan. 15, 3.9217c.

Wheat	20.00
Wheat flour	35.00
Bran	Free

Surtax on imports of 2% ad valorem.

JAPAN

Rates in yen per 100 kin (132.28 lbs). Par value of yen, 49.8c. Exchange value, Jan. 15, 49.5712c.

Wheat	1.50
Wheat flour	2.90
Bran	Free

MALAY STATES

(Federated and Non-federated)

Wheat, flour and bran.....	Free

NEW ZEALAND

Rates in sterling per 100 lbs.

Bran or Pollard.—Free.

Wheat.—When the current domestic value at the port of export to New Zealand is 5s 6d per bu of 60 lbs, the duty shall be 1s 3d per bu of 60 lbs, provided that—

(a) When the current domestic value at the port of export to New Zealand exceeds 5s 6d per bu of 60 lbs, the rate of duty shall be decreased by ½d (halfpenny) per bu of 60 lbs for every ½d (halfpenny) or fraction of ½d (halfpenny) by which the said current domestic value exceeds 5s 6d, and

(b) When the current domestic value at the port of export to New Zealand is less than 5s 6d per bu of 60 lbs, the rate of duty shall be increased by ½d (halfpenny) per bu of 60 lbs for every ½d (halfpenny) or fraction of ½d (halfpenny) by which the said current domestic value is less than 5s 6d.

Wheat Flour (including wheat meal and similar preparations of wheat)—(a) When the current domestic value at the port of export to New Zealand is £13 10s per ton of 2,000 lbs, the duty shall be £3 10s per ton of 2,000 lbs.

(b) When the current domestic value at the port of export to New Zealand exceeds £13 10s per ton of 2,000 lbs, the rate of duty shall be decreased by 1s per 2,000 lbs for every 1s or fraction of 1s by which the said current domestic value exceeds £13 10s.

(c) When the current domestic value at the port of export to New Zealand is less than £13 10s per ton of 2,000 lbs, the rate of duty shall be increased by 1s per 2,000 lbs for every 1s or fraction of 1s by which the said current domestic value is less than £13 10s.

(d) Where wheat flour, including wheat meal and similar preparations of wheat, is imported in packages weighing less than 150 lbs, the current domestic value thereof shall be determined as if such goods had been imported in packages weighing 150 lbs or such other standard weight as the minister may approve.

(e) Notwithstanding anything in the preceding paragraphs of this tariff item, the current domestic value of wheat flour, including wheat meal and similar preparations of wheat, shall not in any case be deemed to exceed the free-on-board (f.o.b.) export cash price thereof by more than £1 5s per ton of 2,000 lbs.

PALESTINE

Palestine pound (1,000 mils), $4.8665.

Duty in mils per kilo—	
Wheat	3.60
Wheat flour	4.50
Bran	0.20

STRAITS SETTLEMENTS

Wheat, flour and bran.....	Free

SYRIA AND LEBANON

Wheat, flour and bran, ad valorem duty 30%

In addition to the import duty, there is a municipal tax of ½ per cent ad valorem. Landing charges average about 3 per cent ad valorem.

Cost of Shipment—Western Canada to Liverpool

The board of grain commissioners for Canada estimates approximate average charges between the producer in Western Canada and the arrival of steamer at Liverpool docks per bushel of wheat, 1930 season:

	Cents per bu
Receiving at country elevator, weighing, elevating, spouting, insurance against loss by fire and storing for 15 days, loading into cars for shipments, cost of inspection and weighing, lake shippers and government registration fees and selling to exporter on Winnipeg market	5
Railway freight rate from average western point to Fort William-Port Arthur terminal elevators	13½
Unloading at terminal elevator, Fort William-Port Arthur, elevating, weighing, cleaning, spouting, insurance against loss by fire and storing for 15 days and loading into vessel or cars for shipment (including outward inspection and weighing fees, lake shippers' and government registration fees and marine insurance)	2
Lake freight from Fort William-Port Arthur to Montreal (including trimming charges, out-turn insurance, and transfer charges at Port Colborne—if transferred to smaller craft through the government elevator)	8½
Elevation of grain from steamer at Montreal, weighing, storage and insurance against loss by fire or explosion for 10 days and loading into ocean steamers (including brokers' fees)	1
Total charges for all services between producer and f.o.b. steamer at Montreal, per bu of wheat.....	30
Approximate average cost of freight and insurance, Montreal to Liverpool, 1930 season, per bu of wheat.	4½
Total costs between producer and Liverpool dock, per bu of wheat.	34½

Chicago—High and Low Wheat Values

The highest price ever reached for contract wheat in Chicago was in December, 1919, and January, 1920, when it sold at $3.50 on the Board of Trade. The lowest price recorded was in January, 1895, 48¾c.

FLOUR MILLING IN CHINA

The total milling capacity of China is approximately 55,000 bbls daily, in about 150 modern mills. A list of Chinese mills, compiled from various sources, follows:

CENTRAL CHINA

	Daily capacity, bbls
Shanghai—	
Foh Sing Mills, No. 1	375
Foh Sing Mills, No. 2	3,000
Foh Sing Mills, No. 3	1,500
Foh Sing Mills, No. 4	1,375
Foh Sing Mills, No. 6	1,125
Foh Sing Mills, No. 7	3,000
Foh Sing Mills, No. 8	3,000
Fou Foong Flour Mill Co. (3 mills)	3,200
Chung Hua No. 1	850
Chung Sing Flour Mill	400
Yue Foong Flour Mill Co. (two mills)	1,625
Sing Dah Flour Mill	800
Hua Sing Flour Mill	1,200
Wah Foong Co.	2,200
Sun Dah Mill	625
Hsin Chang Flour Mill	200
Lih Dah Mill	550
Tsong Wah	250
Tai Yue	250
Mitsui Bussan Kaisha, Ltd.	800
Wusih—Mow Sing Mills, No. 1	750
Hang Foong Flour Mill	200
Mow Sing Mills, No. 2	1,500
Kiu Foong Co. (two mills)	2,250
Tai Loong Mill	1,200
Pai Sing Flour Mill	150
Hankow—Foh Sing Mills, No. 5	1,600
Woo Foong Flour Mill	100
Han Foong Flour Mill	400
Yue Loong Mills (two mills)	900
Chin Loong Mill	300
Tao Flour Milling Co.	550
Wu Foong Flour Mill	500
Changchow—Heng Feng Flour Mill Co.	600
Hanyang—Heng Feng Mill	200
Huo Feng	450
Haichow—Hai Feng Flour Mill Co.	500
Kiu Kiang—Lee Foong Flour Mill Co.	100
Nantungchow—Foh Sing Mill	500
Kaoyu—Yu Hung Flour Mill Co.	500
Tungchow—Da Sing Rye & Flour Mill	500
Changsha—First Flour Mill of Hunan	400
Chinkiang—Yi Cheng Flour Mill	750
Dah Foong Flour Mill	400
Kaifengfu—Yung Feng Flour Mill, Ltd.	150
Tien Foong Flour Mill	600
Sutsien—Yung Feng Flour Mill Co.	...
Chengtu—(One mill)	25
Chunking—Chi Nien Flour Factory	25
Chang Shou Flour Mill	125
Kungyu—Hai Foong Rye & Flour Mill	...
Tsingkianpu—Da Foong Flour Mill Co.	300
Hsuchow—Yu Hong Flour Mill	...
Peng Pu—Pao Shing Flour Mill	300
Pao Shing No. 2	2,000
Sing Foong	600
Shochien—Yung Foong Flour Mill	...
Shasi—Hsing I Flour Mill	125
Gesui—Sin Tai Flour Mill	...
Weiyin—Da Foong Flour Mill	...
Changteh—Chang Foong Flour Mill No. 5	1,600
Sinshang—Tung Foong Mill (Fou Foong Flour Mill Co.)	1,250
Wuhu—Rice and Flour Mill	400
Yi Sing Flour Mill	250
Yanchow—Yu Huan Flour Mill	500
Taichow—Tai Lai Flour Mill Co.	350
Ichang—Hsin Yi Flour Mill	...
Nanking—Dah Doong Flour Mill	1,100

NORTH CHINA

	Daily capacity, bbls
Tsinan—Manchuria Flour Milling Co.	800
Wei Foong Flour Mill	800
Foong Nien Flour Mill	1,250
Shing Cheng Foh Flour Mill	700
Hua King Flour Mill	1,250
Hui Feng Flour Mill	900
Hung Shun Flour Mill	400
Cheng Lee Hao Flour Mfg. Co.	...
Tung Foong Flour Mill	100
Mow Sing Mills, No. 4	800
Ming An Flour Mill	1,600
Chen Foong Flour Mills Co.	1,300
Tientsin—Cheng Feng Flour Mill	800
Tah Feng Flour Mill	800
Ching Chong Flour Mill	600
Foh Sing Flour Mill	1,000
Shuo Foong Flour Mill	1,250
Yue Hsing Flour Mill	1,000
Yue Hwo Flour Mill Co.	1,200
Min Feng Flour Mill	1,250
Jai Rae Flour Mill	1,250
Peking—Yang Hui Flour Mill	400
Lee Chien Flour Mill Co.	...
Teh Lung Flour Mill	200
Chung Shing Flour Mill	...
Ye Lo Mao Co.	100
Tsining—Tsi Foong Mill (Fou Foong Flour Mill Co.)	1,000
Chefoo—Hai Foong Flour Mill	250
Mow Lan Fee Flour Mill	750
Paotowchen—Pao Feng Mill Co.	500
Changtien—Santo Flour Mill	50
Tatung—Chinfei Tatung Flour Mfg. Co., Ltd.	100
Chefoongcheng—Yung Yuen Flour Mill	...
Tsingtau—Haisuka Seibaka Seifun	750
Seito Flour Mill	250
Shuang Fu Flour Mill	400
Hung Shing Flour Mill	400
Chou Tsun—Foo Chung Hung Flour Mill	60
Tongchow—Foh Sing Flour Mill	500
Paotingfu—Chien Neo Kong Flour Mill	950
Chien I Flour Mill	870
Honan—Tien Fong Flour Mill Co.	300
Taiyuanfu—Ching Foong Flour Mill	350
Pingyang (Shansi)—Tsin I Flour Mill	200
Changto (Honan)—To Huo Flour Mill	200

SOUTH CHINA

	Daily capacity, bbls
Changchow—(One mill)	500
Canton—Man Hing Flour Mill	150
Yunnanfu—Flour Milling Co. of Yunnanfu (two companies by the same name, each with one mill)	...
Hing Wah Paste Co.	...

NORTH MANCHURIA

	Daily capacity, bbls
Harbin—Russian Flour Milling Co. (two mills)	1,750
Tseng Da Mill	1,800
Manchuria Flour Milling Co. (three mills)	800
Han Dong Mill	1,500
Shuang Ho Sheng Mill	450
Torkansk Mill	500
Kuang Yuan Sheng Mill	150
Kazatkin Mill	250
Moschilsky Mill	150
East Asia Flour Mill	250
Dun Hing Flour Mill (formerly Irkutsk Milling Co.)	500
Skidelsky Mill	100
Samsonovich Mill	100
Techikoff Mill	100
Isaeff Mill	100
Robachiaeff Mill	50
Amur Co.	100
Imienpo Mill	400
Tung Shing Hung Flour Mill	500
Soungari Mills, Ltd.	3,000
Tien Shing Foh Flour Mills	800
Fuchiatien—Ching Ta Ih Mill	250
Ting Shing (formerly Cheng Fah Siang) Mill	200
Ching Fu Liang Mill	500
Lion Wu Mill	100
Wan Liang Chin Mill	500
Wan Gu Chin Mill	150
Ninguta—Changning Flour Mill	250
Yushun Mill	200
Hsinhua Mill	100
Funing Mill	450
Yushinho Mill	150
Shuanchengpu—Russian Flour Milling Co.	600
Shuang Ho Sheng	600
Nijnaya Mill	100
Hulan—Yung Nih Flour Mill	...
I Shun Chan Flour Mill	500
Sauchiatzu—East Asia Mill	100
Aigun—Yungchi Mill	100
Angangki—Cheng Chang Flour Mill	600
Haipin—Yu Chen Hei Flour Mill Co.	200
Tsitsihar—Chen Chong Flour Mill	200
Anda—Yue Ta Flour Mill	500

SOUTH MANCHURIA

	Daily capacity, bbls
Changchun—Manchuria Flour Milling Co.	700
Swong Ho Flour Mill	400
Tien Hsing Fu Flour Mill	750
Yah Chow Flour Mill	750
China Flour Mill	500
Yu Chang Yuan Flour Mill	100
Two new mills	1,300
Kirin—Koshunho Flour Mill	400
Heng Mao Steam Milling Co.	400
Choshun—Chinese Flour Milling Co., Ltd.	1,000
Mukden—Chien Chin Chai Flour Mill.	100
Manchuria Flour Milling Co.	400
Fushun—Chien Chin Chai Flour Mill.	600
Fukuda Flour Mill	100
Ningan—Yo Chen Hei Flour Mill	...
Feu Ning Flour Mill	...
Chang Ning Flour Mill	...
Dairen—Manchuria Flour Milling Co.	...
Chinese Flour Milling Co., Ltd.	500
Liaoyang—Sino-Japanese Flour Mill	...
Chuan Tai Flour Mill	...
Tancilho—Wan Feng Flour Mill	300
Tiehling—Manchuria Flour Milling Co.	600
Kungchuling—To Mai Chang Flour Mill	...
Wuchen—Yung Yuen Flour Mill	...
Hingan—Sin Hwa Flour Mill	...
Wucheng—Hun Fa Yu Flour Mill	...
Sunchiartan—(New mill)	750

Flour Milling in India

A publication of the department of commercial intelligence of British India gives the total number of large flour mills in India as 79 with 6,028 employees. The Indian Trade Commissioner, London, gives the following list of the principal flour mills of India:

Hooghly Flour Mills, Calcutta.
Howrah Flour Mills, Calcutta.
Reform Flour Mills, Calcutta.
New Union Mills, Ltd., Bombay Island.
Gwalior Roller Flour Mills, Gwalior.
Delhi Flour Mills Co., Ltd., Delhi.
Ganesh Flour Mills Co., Ltd., Lyallpur.
India Flour Mills, Ltd., Karachi.
Karachi Steam Roller Flour Mill Co., Ltd., Karachi.
Sind Flour Mill Co., Ltd., Karachi.
Allahabad Milling Co., Ltd., Allahabad.
Lucknow Steam Flour Mills, Lucknow.
Empire Flour Mills, Calcutta.
Cawnpore Flour Mills, Cawnpore.
Benarsi Dass Flour Mills, Ambala, Punjab.
Wallace Flour Mills, Bombay Island.
Calcutta City Flour Mills, Calcutta.
Sri Biharijl Flour Mill, Patna City.
Seth Sukdev Buksh Flour Mills, Multan, Punjab.
Pioneer Flour Mills, Shahdwa, Punjab.

Greece—Flour Trade

For a period after the war, Greece purchased large quantities of flour from American and Canadian mills. All grades of hard and soft wheat flour were used. Unfortunately this business has been considerably curtailed, owing to the heavy tariff on flour, compared with that on wheat. It is quite probable that this discrimination in favor of wheat may be adjusted to a certain extent in the near future, and if this is brought about the volume of imports of flour should show a material increase. The business is mostly done on an irrevocable credit, established by cable in New York by the purchaser at the time of sale, and drafts are drawn at sight in dollars on the bank where the irrevocable credit has been established. Quotations are made in dollars per 100 kilos or 140 lbs. Shipment is made in 50-kilo bags, either jute or cotton as specified, or 140-lb sacks.

FLOUR MILLING IN JAPAN

The total daily productive capacity of Japanese wheat flour mills at the beginning of 1931 was 46,000 bbls, of which 43,600 belonged to the seven mills of the defunct Japan Flour Mill Association, and 2,400 to minor mills outside of the organization. This represents a gain of 280 bbls over the capacity at the beginning of 1930, according to a report prepared for The Northwestern Miller by the Nisshin Seifun Kaisha. The increase was the result of the enlarging of the capacity of minor mills. The capacities of Nisshin Seifun, Nippon Seifun and other leading mills are unchanged.

The year 1930 was notable in Japanese flour annals for the fact that the Japan Flour Mill Association, composed of the seven largest companies, was dissolved, being replaced by a sales alliance between the two largest companies, the Nippon Seifun Kaisha and the Nisshin Seifun Kaisha. In addition, three of the smaller sized milling companies merged to form the Nitto Seifun Kaisha, having a capacity of 2,600 bbls.

Official statistics specially prepared for The Northwestern Miller give the following summary of the largest mills in Japan:

	Daily capacity, bbls
Nippon Seifun Kaisha—	
Tokyo	4,200
Takasaki	800
Oyama	600
Sapporo	400
Otaru	700
Yokohama	4,300
Nagoya	1,700
Kobe	1,200
Dairi	2,500
Kurume	800
Total	17,200
Nisshin Seifun Kaisha—	
Tatebayashi	1,000
Yokohama	900
Utsunomiya (old)	100
Utsunomiya (new)	600
Mito	1,000
Takasaki	1,100
Sano	600
Tsurumi	7,400
Nagoya	2,100
Kobe	2,000
Okayama	1,250
Sakaide	850
Tosu (first)	700
Tosu (second)	900
Total	20,500
Nitto Seifun Kaisha—	
Matsumoto—First plant	100
Second plant	200
Third plant	500
Chiba plant	500
Nagoya plant	700
Kobe plant	600
Total	2,600
Masuda Seifun Kaisha	2,500
Osaka Seifun Kaisha	500
Nippon Seimai Seifun Kaisha	300
Grand total	43,600

In addition there are mills having a capacity of 2,400 bbls, which are all minor mills ranging from 50 to 100 bbls. Water mills still play an important part in the flour trade in out-of-the-way districts. There are about 19,000 water mills in Japan, run by farmers. No exact data are available for the latter, but it is expected that their combined capacity now totals about 1,000,000 bbls, compared with 2,000,000 a few years ago.

Flour milling in Japan up to the beginning of the Russo-Japanese War, in 1904, was still in the water mill stage. Flour was manufactured principally by these mills scattered everywhere, each with a daily capacity of only 10 to 50 49-lb bags. The majority of flour that was wanted was imported.

The Nippon Seifun Kaisha, established in 1896, was the only roller mill, with a productive capacity of 200 bbls, in striking contrast to its 17,200 of today. Whereas the capacity was limited to 750 bbls in all Japan in pre-war days, it was increased to 8,700 in 1910. In 1914, when the World War broke out, the capacity was 9,060 bbls, but it reached 21,600 in 1921, and has grown to the present capacity of 43,600.

Finland—Flour Milling

During 1930 Finland placed an additional duty on imported flour and semolina, raising it to 210 marks ($5.25 per 100 kilos), while the duty on wheat remained unchanged at 100 marks ($1.50 per 100 kilos). The purpose of these increased duties was to protect the farmer, for as yet there are very few flour mills in Finland, and most of those are country mills, equipped only for milling rye meal and rye flour. However, with the large differential between imported flour and imported wheat, a new impetus has been given to the flour milling industry in Finland, and existing mills are being adapted for the milling of wheat, while a movement is on foot for the erection of a large modern flour mill in South Finland. At present only about 30,000 tons of wheat is grown in South Finland, and this will have to be used in conjunction with stronger foreign wheats, so that importation must be resorted to, either in the form of wheat or flour. Heretofore, imports of wheat flour amounted to about 120,000 tons, of which at least one half was of fairly high grade. As it will be impossible for domestic mills to supply these high grades, such importations are likely to continue.

New Orleans Board of Trade

E. S. Binnings, president; G. J. Mouledoux, first vice president; A. W. Berdon, second vice president; E. E. Lamberton, third vice president; J. S. Herring, secretary.

Flour Milling in Australia and New Zealand

The Commonwealth Bureau of Census and Statistics has issued the following data on the flour milling industry in Australia, for fiscal years ending June 30:

	Wheat milled, bus	Flour production, tons	Value of flour
1920-21	[illegible]	801,511	[illegible]
1921-22	[illegible]	911,452	[illegible]
1922-23	47,036,086	985,479	[illegible]
1923-24	52,386,662	1,092,856	[illegible]
1924-25	50,805,093	1,068,698	13,884,581
1925-26	56,256,301	1,185,908	16,522,444
1926-27	51,168,722	1,141,748	[illegible]
1927-28	52,200,516	1,092,632	[illegible]

	Value of equipment*	No. employees	Salaries and wages	Horsepower
1927-28	£4,190,095	3,443	£844,107	21,495
1926-27	3,995,814	3,670	865,161	21,036
1923-24	......	3,676	844,998	.....

*Land, buildings, plants and machinery.

NUMBER OF WHEAT FLOUR MILLS

	1928	1927	1921	1921
New South Wales	57	57	60	71
Victoria	42	44	[illegible]	59
South Australia	36	37	37	51
Queensland	10*	10*	[illegible]	[illegible]
West Australia	19	17	18	[illegible]
Tasmania	10*	10*	[illegible]	15
Totals	171	175	182	231

*Includes mills making corn flour, oatmeal, etc.

OUTPUT BY STATES, 1927-28

	Wheat milled, bus	Flour output, tons	Value of flour
New S. Wales	19,133,823	400,363	£4,895,024
Victoria	17,659,570	367,380	4,513,542
So. Australia	5,787,113	122,107	1,572,790
Queensland	2,577,246	53,858	775,727
W. Australia	5,980,113	127,246	1,572,790
Tasmania	1,062,651	21,675	274,973

Employees in flour milling were distributed as follows in 1927-28 (1926-27 figures in parentheses): four employees or less, 27 mills (17); 5 to 10, 46 (41); 11 to 20, 46 (46); 21 to 50, 41 (41); 51 to 100, 12 (15); more than 100, 2 (2).

Among the most important Australian flour mills, as reported to the Australian correspondent of The Northwestern Miller, are the following, capacities being estimated in barrels per 24-hour day.

NEW SOUTH WALES

	Bbls
Murrumburrah—Allsopp's Silver Spray Flour Mills, Ltd.	360
Sydney—Brunton & Co.	1,250
Gunnedah—Brunton & Co.	320
Goulburn—William Conolly, Ltd	130
Sydney—John Darling & Son	1,200
Sydney—Gillespie Brothers, Ltd.	1,500
Millthorpe—Great Western Milling Co., Ltd.	360
Canowindra—Great Western Milling Co., Ltd.	330
Wellington—McLeod, Ltd.	280
Gilgandra—McLeod, Ltd	165
Wagga—Murrumbridgee Co-operative Milling Co.	720
Sydney—McCorquodale Brothers (two mills)	1,120
Sydney—Crogos, Ltd.	
Sydney—Stratton & Sons.	
Sydney—Mungo Scott & Co.	
Sydney—Edwin Davey & Sons	
Narrandera—Wise Brothers, Ltd.	215
Young—Young Co-operative Roller Flour Mill Co., Ltd.	480

VICTORIA

	Bbls
Melbourne—T. Brunton & Co.	1,200
Dimboola—Dimboola Roller Flour Mill Co.	360
Melbourne—Kimpton & Son (Kensington Roller Flour Mills)	2,750
Melbourne—W. S. Kimpton & Sons.	
Melbourne—Nosko & Son.	
South Kensington—Minifie & Co. (Victorian Roller Mills)	1,050
Maryborough—Minifie & Co.	[illegible]
Mooroopna—McLennan & Co.	360
Horsham—Nosko Brothers	[illegible]
Hilton—William Charlick, Ltd.	
Bendigo—Tomlins, Simmie & Co.	180
Richmond—Tomlins, Simmie & Co.	210
Newport—W. C. Thomas & Co.	[illegible]
Warracknabeal—W. C. Thomas & Co.	[illegible]
Murtoa—W. C. Thomas & Co.	[illegible]
Bridgwater—Water & Kerang United Roller Mills, Ltd.	[illegible]
Kerang—Water & Kerang United Roller Mills, Ltd.	210

SOUTH AUSTRALIA

	Bbls
Port Adelaide—Adelaide Milling Co.	650
Gawler—Adelaide Milling Co.	210
Adelaide—William Charlick, Ltd.	360
Port Adelaide—W. Thomas & Co.	
Adelaide—Verco Bros	
Adelaide—John Darling & Son.	

WESTERN AUSTRALIA

	Bbls
Guildford—Peerless Roller Flour Mills, Ltd.	[illegible]
Perth—Perth Roller Flour Mills	[illegible]
Katanning—F. & C. Piesse	[illegible]
York—York Flour Milling Co., Ltd	150

QUEENSLAND

	Bbls
Warwick—Barnes & Co., Ltd.	[illegible]
Toowoomba—Defiance Milling Co.	[illegible]
Brisbane—Defiance Milling Co.	[illegible]

TASMANIA

	Bbls
Launceston—Monds & Affleck, Ltd (two mills)	[illegible]

NEW ZEALAND

	Bbls
Christchurch—D. H. Brown & Sons, Ltd.	[illegible]
Dunedin—Crown Milling Co., Ltd.	[illegible]
Christchurch—Wood Brothers	[illegible]

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Flour Milling in South Africa

A list of the principal South African mills, compiled in the American consulate-general at Cape Town, includes the following, capacity and output figures being unstated:

Algoa Milling Co., Ltd., Hancock Street, Port Elizabeth, Cape Province.

Balfour Steam Roller Mills, Box 42, Balfour, Transvaal.

Bennett's Roller Mills, Box 21, Standerton, Transvaal.

Berg River Flour Mills, Noorder Paarl, Cape Province.

Bethal Premier Milling Co., Box 35, Bethal, Transvaal.

Brandfort Steam Mills, Brandfort, Orange Free State.

Bredenkamp, J. Junior, Orange Street, Ceres, Cape Province.

Bedford's Roller Mills, Box 184, Bloemfontein, Orange Free State.

Buffalo Roller Mills, Kingwilliamstown, Cape Province.

Caledon Roller Flour Mills, Caledon, Cape Province.

Carolina Roller Mills, Box 96, Carolina, Transvaal.

Castle Milling Co., Ltd., Darling Street, Cape Town.

Colesberg Roller Mills, Colesberg, Cape Province.

De Beer, E. B., Robinson Road, Queenstown, Cape Province.

Drakenstein Roller Mills, Bethlehem, Orange Free State.

East London Flour Milling Co., East London, Cape Province.

Forrest & Co., John Belmont Road, Rondebosch, Cape Province.

Germiston Milling Co., Ltd., 129 Victoria Street, Germiston.

Hippo Roller Milling Co., 69 St. Paul's Road, East London, Cape Province.

Joubert Bros., Upper Mills, Worcester, Cape Province.

Kaffrarian Steam Mill Co., Ltd., Kingwilliamstown, Durban, East London, Molteno and Bethlehem.

Koster Roller Mills, Box 63, Koster, Transvaal.

Ladybrand Milling Co., Ladybrand, Orange Free State.

Lawes & Co., Ltd., Pietermaritzburg, Natal.

Lichtenburg Roller Mills, Box 71, Lichtenburg, Transvaal.

Loubser Bros., Darling, Cape Province.

McDonald & Forbes, Ltd., Box 46, Harrismith, Orange Free State.

Daniel Mills & Sons, Ltd., Clarabut Chambers, Progress Lane, Cape Town.

O. F. S. Milling Co., Bloemfontein, Orange Free State.

O'Meara & Co., G. H., P. O. Box 822, Johannesburg.

Paarl Roller Mills, Cape Town.

Premier Milling Co., Ltd., Carr and Quinn streets, P. O. Box 1530, Johannesburg; Church Street, P. O. Box 26, Germiston.

Pretoria West Flour Milling Co., Ltd., Carl Street, Pretoria, Transvaal.

Pyott, Ltd., Port Elizabeth, Woodstock.

Smith Hudson, Ltd., Broad Street, Port Elizabeth.

South African Milling Co., Ltd., Cape Town and Port Elizabeth.

Star Milling Co., Ltd., 83 Bree Street, Newton, Johannesburg.

Theron, H. J., Graaff Reinet, Cape Province.

Union Flour Mills, Ltd., P. O. Box 1010, Durban, Natal.

J. W. Van der Merwe & Co., Box 68, Bethlehem, Orange Free State.

Vereeniging Milling Co., Ltd., P. O. Box [illegible], Vereeniging; P. O. Box 146, Springs, Transvaal.

Voorspoed Roller Mills, Box 78, Carolina, Transvaal.

Whiting, J. W., Uitenhage, Cape Province.

Worcester Milling Co., Box 60, Worcester, Cape Province.

National Federated Flour Clubs

During the past 10 years or more there has been a movement in all large flour distributing centers toward the development of flour clubs, which originally were mainly for the purpose of creating a closer social relation between those engaged in the purchase and sale of flour. The first large active organization was the New York Flour Club, although Chicago had a similar organization which came into being about the same time.

At a meeting of prominent flour brokers and jobbers from several cities, held in New York on June 9, 1919, it was decided to form a federation of flour clubs. Such clubs had previously been in existence in New York and Chicago for several years. As a result of the meeting in New York, clubs were formed in other cities and became members of the national organization. The name National Federated Flour Clubs was adopted.

At present flour clubs in the following cities are members of the national body: New York, Chicago, Buffalo, Philadelphia, Baltimore, St. Louis, Kansas City, Pittsburgh, Boston, Cincinnati, Milwaukee, Nashville and New Orleans. Other clubs are being organized, and they are expected to affiliate with the national organization.

The object of the National Federated Flour Clubs is to bring in closer contact those engaged in the sale of flour in the various distributing centers and to equally protect the interests of all reputable concerns engaged in the flour business, whether it be miller, broker, jobber or buyer.

Chicago Board of Trade

The Chicago Board of Trade was organized March 13, 1848. The first quarters were in a small room over a flour store on South Water Street. The first president of the organization was Thomas Dyer. There were 82 members.

In 1849 the Illinois legislature passed a law for the establishment of boards of trade and chambers of commerce. In 1850 the Chicago Board of Trade was incorporated. Various quarters were utilized until April 29, 1885, when the last Board of Trade Building was completed at a cost of $1,750,000, the trading room being one of the largest in the United States. Eventually, the board outgrew these quarters, and a new building was erected on the same site at a cost of about $20,000,000. It was occupied May 1, 1930.

James C. Murray is president; Peter B. Carey, first vice president; Siebel C. Harris, second vice president; Fred H. Clutton, secretary. Directors: term expiring January, 1932, Fred Uhlman, A. W. Mansfield, Frank E. Alstrin, Philip R. O'Brien, Walter G. Moorhead; term expiring January, 1933, Robert P. Boylan, Parker M. Paine, Emil J. Garneau, W. E. Hudson, Lowell S. Hoit; term expiring January, 1931, Gale Smart, Thomas Wickham, Barnett Faroll, John Brennan, Charles Essroger.

Australian Wheat Pools

There are five wheat pools operating in Australia during the 1930-31 season, in New South Wales, South Australia, Victoria, Queensland, and Western Australia. The Victorian pool is known as the Victorian Wheat Growers' Corporation, Ltd. The New South Wales pool is said to be handling about 25 per cent of the marketable crop; South Australia, 25 per cent; Queensland, 33 per cent; Western Australia, between 50 and 60 per cent.

Milling in Argentina

Production of flour in Argentina continues to increase, and official reports for the calendar year 1928 show a record flour output of 1,330,811 metric tons (14,971,624 bbls) from 1,884,980 metric tons (69,254,165 bus) of wheat. There were also produced 544,071 tons of by-products from the grain consumed. Flour production was 36,520 metric tons (100,913 bbls) greater than during 1927, an increase of about 2.8 per cent.

Percentage of extraction rose to 70.6 per cent from 70.2 in 1927 and 68.4 in 1926, when a poor crop resulted in abnormally low extraction. Of the 331 registered flour mills in Argentina, 173, with a capacity of 8,980 metric tons (100,913 bbls) per 24-hour day, worked during the year.

The report says that the increased production can be attributed to a steady demand among local inhabitants rather than in larger exports. The consumption of wheat flour in Argentina per inhabitant during the last two years is given as 105.6 kilograms (232.8 lbs). Exports during 1928 were 169,090 metric tons (1,902,263 bbls). Brazil is the principal importer of Argentine wheat flour, taking more than 50 per cent of the total exported.

The following table shows the amount of wheat milled, flour produced, flour exported, and estimated consumption, in tons:

Year—	Wheat milled	Production	Exportation	Consumption
1915...	1,368,355	937,770	116,049	821,721
		—Tons—		
1916...	1,429,153	993,539	144,290	849,249
1917...	1,331,203	938,747	112,465	826,282
1918...	1,561,625	1,081,269	176,445	904,825
1919...	1,557,802	1,071,863	328,107	743,756
1920...	1,344,438	930,569	179,918	750,621
1921...	1,375,631	951,731	63,527	888,2[illegible]
1922...	1,308,779	912,887	113,536	799,351
1923...	1,342,512	936,266	82,084	854,180
1924...	1,691,206	1,196,063	174,538	870,000
1925...	1,634,311	1,155,200	137,350	1,017,599
1926...	1,700,644	1,163,750	142,177	1,021,573
1927...	1,845,000	1,294,291	169,650	1,124,641
1928...	1,884,980	1,330,811	169,090	1,161,721

Although it suffered a severe setback in the period 1921-25, per capita flour consumption in Argentina is growing, as will be evidenced by the following figures:

Year—	Flour consumption, tons	Population	Consumption per capita, kilograms
1916-20....	814,955	8,395,851	97.1
1921-25....	885,867	9,510,083	93.1
1926.......	1,021,573	10,348,189	98.7
1927.......	1,124,641	10,[illegible]1,036	105.6
1928.......	1,161,721	11,001,111	105.6

New Orleans—Elevators

	Capacity, bus
C—Poydras—Illinois Central	350,000
D—Stuyvesant Dock	1,000,000
E—Stuyvesant Dock	1,500,000
Dock Board Elevator	2,620,000
New Basin—J. T. Gibbons	350,000
Total	5,820,000

Canada—U. S. Customs Documents

Shipments originating in Canada consigned to points in the United States require the following customs papers for each shipment, which must be securely attached to waybills:

Export entry form B.13 (C.P.R. form 648 and C.N.R. 7070), in duplicate.

Consular invoice for all shipments exceeding $100 in value.

Car report and manifest (C.P.R. form 209A and C.N.R. 7015), in quadruplicate, to be filed with the United States customs at port of entry. This form is not required for shipments exported via Prescott, Ont., McAdam, N. B., or North Portal, Sask., as forms are prepared by agents at these points.

Duplicate bill of lading for customs (C.P.R. form 9D and C.N.R. 7010) must be signed by both the agent and the shipper; it must consign the goods to the name of the customs broker at the border. Agents will see that the bill of lading and waybill show correct routing and correct port of entry.

SHIPMENTS IN BOND

Shipments to be forwarded through the United States in bond will not require consular invoice, but railway forms should be made in triplicate and agents must see that ultimate destination is shown on waybill.

PAYMENT OF DUTY

Payment of duty on shipments from Canada to the United States may be made at destination, provided they are consigned to a port of entry in the United States. All other freight must have duty paid at frontier.

Duty and entry fee must be paid (prepaid) on shipments when the value does not exceed the duty charges.

Flour Milling in Colombia

There are 60 flour mills in Colombia, as reported by the Colombian government information bureau in New York. Though some of the mills are modern, most of them are stone mills serving only their immediate localities. La Industria Harinera, in Bogotá, carries on the most extensive operations, being capable of producing 1,200 bbls flour daily.

The greater part of the flour consumed in Colombia is produced from wheat grown in the country. The entire consumption in the interior of the country is from Colombian wheat. The flour produced along the coast, in Barranquilla and Cartagena, is from foreign wheat, generally imported from Canada.

Greece—Acidity Content Regulations

Drastic regulations are in force in Greece regarding the acidity content of low grade flours. These regulations should be carefully understood by exporters, as during the hot months there is danger of the acidity content rising above the maximum, resulting in the flour being refused entry. The present acidity percentage allowed by the government is 160. In the summer months a margin of 10 per cent is allowed to be added, making a maximum of 176. Clear grades of flour made from durum wheat are liable to increase in acidity more easily than those made from other hard wheats. It is, therefore, inadvisable for exporters to sell durum clears later than for April shipment in the spring and not before October in the autumn. By doing this the risk of having the flour arriving in Greece during the extreme hot weather is avoided.

Canadian Mill Wages

Rates of wages per hour prevailing in Canadian flour mills in 1930, in cents:

Millwrights	75@90
[illegible]	60@70
Bolters and grinders	60
Packers	37@42
Elevator help	35@40
General help	35
Watchmen	30

WHEAT FLOUR—SUPPLY, DISTRIBUTION AND PER CAPITA DISAPPEARANCE IN THE UNITED STATES

A table compiled by the United States Department of Agriculture showing the supply, distribution and per capita disappearance of wheat flour in the United States, by census years, in barrels (000's omitted except in statistics as to per capita disappearance):

Supply—	1889	1899	1904	[illegible]	1914	1919	1921	1923	[illegible]	1927
On hand Jan. 1.....	2,102	1,854	[illegible]	1,701	2,385	1,592	2,170	2,293	[illegible]	[illegible]
Output	80,949	103,524	105,365	107,168	117,754	133,671	112,051	115,644	[illegible]	[illegible]
Imports	1	1	26	113	79	17	966	[illegible]	11	5
Totals....	83,052	105,179	107,167	108,922	120,220	135,289	115,187	118,205	117,941	121,644
Distribution—										
Exports	10,151	[illegible]	11,343	9,688	12,769	26,450	16,591	16,310	[illegible]	12,823
On hand Dec. 31	1,657	1,605	2,218	[illegible]	[illegible]	[illegible]	2,024	[illegible]	[illegible]	[illegible]
Disappearance.	70,911	[illegible]	92,406	[illegible]	[illegible]	[illegible]	96,262	[illegible]	[illegible]	[illegible]
Population, July 1	61,775	74,799	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Disappearance— Per capita, bbls........	1.1484	1.1345	[illegible]	[illegible]	[illegible]	1.0139	[illegible]	[illegible]	[illegible]	[illegible]
In terms of wheat, bus.	5.18	[illegible]	[illegible]	5.04	5.03	[illegible]	4.19	4.20	[illegible]	4.17

UNITED STATES BAKING COMPANIES

The following summary of the composition of the five largest bakery consolidations in the United States is necessarily incomplete, giving only a general outline of their formation.

Continental Baking Corporation

Largest of the bakery chains is the Continental Baking Corporation, which was incorporated in Maryland, Nov. 6, 1924. It represents a merger of the United Bakeries Corporation and some 20 odd other companies in almost every part of the country.

Immediately upon incorporation, the company began to carry out a program of acquisition. It absorbed the United Bakeries Corporation, a pioneer holding corporation, which controlled the Campbell Baking Co., Kansas City, Ward & Ward, Inc., Buffalo, and Ward Bros., Inc., Rochester, N. Y. By subsequent purchases, the United had gained control of the Schulis Bread Co., New York, the Memphis (Tenn.) Baking Co., the Stroehmann Baking Co., Wheeling, W. Va., the Crescent Bread Co., New York, the Atlas Bakeries, Inc., Milwaukee, and other concerns. The newly formed Continental also acquired the American Bakery Co., of St. Louis, another merger, through the United.

It soon absorbed the Standard Bakeries Corporation, Chicago, a merger of 11 independent concerns in Indiana, Ohio, Nebraska, Colorado, Texas and California; the Livingston Baking Co., Chicago; the Taggart Baking Co., Indianapolis; the Massachusetts Baking Co., Boston; the Consumers' Baking Co., Newark, N. J.; the Stritzinger Baking Co., Norristown, Pa; the Corby Baking Co., Washington, D. C; the Wagner Baking Co., Detroit, Mich; the Occident Baking Co., Minneapolis; the R. B. Ward Baking Co., Inc., Santa Barbara, Cal; the Log Cabin Baking Co., Portland, Oregon—and several other companies. Most of these firms were in themselves consolidations.

The company controls the operation of more than 100 plants in the following cities: Brooklyn, Jamaica, Mount Vernon, New York, Rochester, Utica and West New Brighton, N. Y; Garfield, Hoboken and Paterson, N. J; Boston, Fitchburg, Holyoke, Lawrence, New Bedford, Somerville and Springfield, Mass; Bridgeport, Hartford, New Haven and Waterbury, Conn; Washington, D. C; Norristown, Pa; Richmond, Va; Akron, Cincinnati, Dayton, Cleveland, Columbus, Toledo and Youngstown, Ohio; Anderson, Gary, Hammond and Indianapolis, Ind; Chicago and Oak Park, Ill; Detroit, Mich; Davenport, Des Moines, Sioux City and Waterloo, Iowa; Minneapolis, Minn; Milwaukee, Wis; Kansas City, St. Joseph and St. Louis, Mo; Oklahoma City and Tulsa, Okla; Little Rock, Ark; Topeka and Wichita, Kansas; Clarksdale, Miss; Huntington and Wheeling, W. Va; Omaha, Neb; Memphis, Tenn; Shreveport, La; Dallas and El Paso, Texas; Pueblo and Denver, Colo; Ogden and Salt Lake City, Utah; Beverly Hills, Long Beach, Los Angeles, Sacramento, San Diego and San Francisco, Cal; Portland, Oregon; Seattle, Tacoma and Spokane, Wash.

The Continental Baking Corporation is a holding company, and it operates through a subsidiary, the Bakeries Service Corporation, with headquarters at 285 Madison Avenue, New York.

Of the authorized capital of 2,000,000 shares of 8 per cent preferred stock, 2,000,000 shares of Class A, and 2,000,000 shares of Class B, 519,352, 291,813 and 2,000,000 shares, respectively, are outstanding. For 1930, net profits of the company totaled $6,149,143.

Officers: M. Lee Marshall, chairman of the board; M. L. Livingston, president; W. M. Clifford, G. M. Gerfried, S. F. McDonald, Richard Meyer, J. S. Goldie, and R. K. Stritzinger, vice presidents; Brayton Campbell, secretary-treasurer.

General Baking Co.

The General Baking Corporation was formed on Oct. 3, 1925, under the laws of Maryland. It proceeded to acquire the General Baking Co., which was a consolidation of 20 bread companies formed in 1911. Subsequently the General Baking Co. acquired the Kolb Bakery Co., the Syracuse (N. Y.) Bread Co., the Dexter Bakeries, Springfield and Waterbury, Conn., the S. S. Thompson Baking Co., New Haven, Conn., the Gardner Bakeries, Inc., with seven plants in Virginia, Maryland, Pennsylvania, New Jersey, Georgia and Washington, D. C., and other companies. Later, the General Baking Corporation acquired the Smith-Great Western Baking Co., Kansas City, and other concerns.

The General Baking Corporation operates 51 plants in the following cities: New York, Brooklyn, Buffalo, Rochester, Syracuse, Albany and Schenectady, N. Y; Boston, Worcester and Springfield, Mass; Hartford, New Haven and Waterbury, Conn; Jersey City and Newark, N. J; Baltimore; Philadelphia, Reading and Allentown, Pa; Wheeling, W. Va; Canton, Cleveland, Steubenville, Toledo and Columbus, Ohio; Providence, R. I; Norfolk, Va; Indianapolis, Ind; Washington, D. C; Louisville, Ky; Detroit, Mich; Kansas City and St. Louis, Mo; Kansas City, Hutchinson and Wichita, Kansas; Enid, Tulsa and Oklahoma City, Okla; New Orleans.

The corporation has an authorized capitalization of 100,000 shares of $8 cumulative preferred stock, 2,000,000 shares of $6 cumulative preferred, and 5,000,000 shares of common. Outstanding are 90,775, 992,980, and 3,472,361 shares respectively. According to a plan proposed early in 1930, the General Baking Corporation will be dissolved and its stock exchanged for stock of the original operating firm, General Baking Co. For 1930, net profits were 5,109,410.

Officers: F. H. Frazier, chairman of the board; C. L. Lowes president, C. Everett Casto and Bryce B. Smith vice presidents, R. E. Peterson secretary and A. A. Clarke treasurer.

Purity Bakeries Corporation

On Dec. 1, 1924, the Purity Bakeries Corporation was incorporated in Delaware. Its first acquisition was the Purity Baking Co., started in a small way in 1903, which operated, in its own name and through subsidiaries, plants in Minnesota, Ohio and Indiana. Other early acquisitions were the Tri-State Baking Co. of Michigan and the Williams Baking Co.

Most important of its subsequent acquisitions have been the following: Nafziger Baking Co., Kansas City, with plants at Kansas City, St. Louis, Springfield, and Sedalia, Mo., Decatur, Ill., Burlington, Iowa, Muskogee, Okla., and Wichita Falls, Texas; Grennan Bakeries, Inc., which at the time of acquisition operated 43 plants and branches in Illinois, Michigan, Ohio, Minnesota, Tennessee and Pennsylvania; the Dixie Baking Co., with plants in Dallas, Abilene, Houston and Beaumont, Texas; Cushman's Sons, Inc., with 10 plants and 190 retail stores in New York City and vicinity.

Through the acquisition of Cushman's Sons, Inc., the company entered the chain store field, and has acquired retail bakery chains in Chicago and Philadelphia through newly organized subsidiaries, Cushman's Sons, Inc., of Illinois, and Cushman's Sons, Inc., of Pennsylvania.

On Jan. 1, 1930, the corporation controlled the operation of 54 plants in the following cities: New York (5), Brooklyn (3), Rockaway Beach, Buffalo, White Plains, N. Y; Newark, N. J; Pittsburgh, Philadelphia, Pa; Detroit (3), Flint, Mich; Cleveland, Toledo, Akron, Columbus, Hamilton, Cincinnati (2), Ohio; Louisville, Ky; Memphis (2), Tenn; Indianapolis, Ind; Chicago (4), Decatur, Ill; Minneapolis (3), St. Paul (2), Duluth, Minn; Burlington, Iowa; Kansas City (2), St. Louis (2), Sedalia, Springfield, Mo; Muskogee, Okla; Wichita Falls, Abilene, Dallas (2), Fort Worth, Houston, Beaumont, Texas.

Capital stock consists of 1,000,000 authorized shares of no-par common, of which 805,062 have been issued. Net income for the year ended Dec. 28, 1930, was $4,130,872.

Officers: M. L. Molan, president; J. T. McCarthy, vice president and treasurer; J. W. Hines, vice president; John Pirie, secretary.

Ward Baking Corporation

On Dec. 23, 1923, the Ward Baking Corporation was organized in Maryland to take over the control of the Ward Baking Co. of New York, one of the oldest baking companies in the country, started in 1849. The Ward company then operated 16 plants, many of which were acquired over a period of years from smaller companies. It also operated the Research Products Co., which was later sold to The Fleischmann Co.

The corporation now controls the operation of 21 plants in the following cities: Brooklyn, Syracuse and New York, N. Y; Cambridge, Mass; Providence, R. I; Newark, N. J; Philadelphia and Pittsburgh (2), Pa; Baltimore; Cleveland, Columbus and Youngstown, Ohio; Chicago (3); Detroit, Mich; South Bend, Ind; St. Louis; Birmingham, Ala; Jacksonville, Fla.

Authorized capitalization of the company consists of $50,000,000 of 7 per cent cumulative preferred, 600,000 shares of Class A, and 500,000 shares of Class B. All the Class B stock, 86,275 shares of Class A, and 300,064 shares of the preferred are outstanding. Net profits in 1930 were $2,058,546.

Officers: George K. Morrow, chairman of the board; Frederick K. Morrow, president; Julian Livingston, vice president; John M. Barber, secretary; George Zacharias, treasurer; executive committee, George and Frederick Morrow, Charles Hayden, Edgar Palmer, T. H. McInnerney, P. W. Jameson, H. L. Cummings.

Loose-Wiles Biscuit Co.

Formed to acquire a New Jersey company of the same name, the Loose-Wiles Biscuit Co. was incorporated in New York, May 3, 1912. The business was originally established in 1903 as the United States Biscuit Co., later changed to the North American Biscuit Co., and subsequently to its present title. Several companies have been acquired, among them the Shust Biscuit Co. and Green & Green.

Ten biscuit and cracker plants are operated in the following cities: Chicago, Ill; Minneapolis, Minn; Omaha, Neb; St. Louis, Mo; Dallas, Texas; Chelsea and Boston, Mass; Kansas City, Mo; Dayton, Ohio. Branches are established in about 120 cities.

Capitalization is composed of $3,874,300 of 7 per cent cumulative first preferred stock, of which all is outstanding and 920,000 shares of common, of which 600,000 are outstanding. For 1930, net income amounted to $2,394,045.

Officers: B. L. Hupp, president; John H. Wiles, vice president and treasurer; G. H. Willcockson, E. F. Swinney, vice presidents; R. W. Castle, secretary.

National Biscuit Co.

Formed from three already large baking companies, the National Biscuit Co. was incorporated in New Jersey Feb. 3, 1898. It was a consolidation of the American Biscuit & Manufacturing Co., the New York Biscuit Co., and the United States Baking Co. Subsequently other smaller companies were acquired, the most recent being the Holland Rusk Co., the Frank E. Block Biscuit Co., Atlanta, and the Iten Biscuit Co., Omaha. The Shredded Wheat Co., cereal manufacturers, is among the recent additions. In June, 1925, the company organized the National Biscuit Co. of Canada, Ltd., to handle Dominion business. The firm acquired Christie, Brown & Co., Ltd., and the Telfer Biscuit Co., Ltd., Toronto. The most recent acquisitions are the Pacific Coast Biscuit Co., Seattle, and Bishop & Co., Los Angeles.

The company operates plants, producing biscuits and bread. Many of the plants have attendant machinery, carpenter and packaging plants, while the firm supplies much of its flour needs through its subsidiary, the National Milling Co., Toledo.

Sixty-eight plants are operated in the following cities: Atlanta, Ga; Baltimore, Md. (2); Burlington, Vt; Cambridge, Mass; Charleston, S. C; Albany, Buffalo (2), New York (8), Elmira, Glens Falls, Newburgh, Rochester, Watertown, Syracuse, N. Y; Chicago (4), Marseilles (2), Ill; Cincinnati (2), Cleveland (2), Mansfield, Zanesville, Ohio; Clinton, Des Moines, Iowa; Denver, Colo; Birmingham, Ala; Detroit, Grand Rapids, Mich; Philadelphia, Pittsburgh, East Liberty, York, Pa; Houston, San Antonio, Texas; Indianapolis, Ind; Perth Amboy, N. J; Kansas City, St. Joseph, St. Louis, Mo; Los Angeles, Cal; Minneapolis, Minn; Salt Lake City, Utah; Memphis, Tenn; Milwaukee, Wis; Oklahoma City, Okla; Omaha, Neb; Wilmington, N. C; Toronto, Ont; Los Angeles, San Diego and San Francisco, Cal; Spokane, Tacoma and Seattle, Wash; Portland, Oregon.

The National Bread Co., a subsidiary, was organized in January, 1927, to take over the bread and cake business of the company. This subsidiary operates 19 plants at Birmingham, Atlanta, Indianapolis, Perth Amboy, Albany, Buffalo, Elmira, Newburgh, Glens Falls, Rochester, Syracuse, Wilmington, Cincinnati, Cleveland, Pittsburgh, Charleston, San Antonio, Houston and Burlington. A cake plant is operated at Newark, N. J.

Capitalization is composed of 12,000,000 authorized common shares of $10 par value, of which 6,206,787 are outstanding, and 250,000 shares of 7 per cent cumulative preferred, of which 248,045 are outstanding. For 1930, the company showed net income of $22,879,898.

Officers: chairman of the board, R. E. Tomlinson; president, Frederick Beers; vice presidents, C. F. Bliss, W. W. Graves, A. G. Bixler, J. G. Zeller, Edmund Mackay, E. Y. Crossmore, F. K. Montgomery, C. E. Dunlap; secretary, F. E. Bugbee; treasurer, H. C. Taylor.

United Biscuit Co. of America

Incorporated in Delaware, Nov. 3, 1927, the United Biscuit Co. of America acquired the assets of the United Biscuit Co., including the Sawyer Biscuit Co., Chicago, the Union Biscuit Co., St. Louis, and the Lakeside Biscuit Co., Toledo. Subsequently the following firms were acquired: Streitmann Biscuit Co., Cincinnati, Felber Biscuit Co., Columbus, Manchester Biscuit Co., Fargo, N. D; Manchester Biscuit Co., Sioux Falls, S. D; Merchants Biscuit Co., Denver; Heckman Biscuit Co., Grand Rapids, Mich; Quality Biscuit Co., Milwaukee, and the Ontario Biscuit Co., Buffalo; Purity Biscuit Co., Salt Lake City, Utah; Keebler-Weyl Baking Co., Philadelphia; Tennessee Biscuit Co., Nashville. The Chicago Carton Co. also was acquired.

Its subsidiaries operate 15 plants in the following cities: Buffalo, N. Y. (2); Pittsburgh, Pa; Milwaukee, Wis; Chicago, Ill; St. Louis, Mo; Denver, Colo; Toledo, Cincinnati, Columbus, Ohio; Fargo, N. D; Sioux Falls, S. D; Grand Rapids, Mich; Nashville, Tenn; Philadelphia, Pa.

Capitalization is composed of $2,000,000 of 7 per cent cumulative convertible preferred stock, of which $1,728,400 has been issued, and 750,000 shares of common, of which 484,438 are outstanding. Net profits for 1930 were $2,005,061.

Officers: A. P. Streitmann, chairman of the board and vice president; K. F. MacLellan, president; A. J. Zimmerman, John Hekman, H. J. Completon, R. R. Richardson, F. G. Salerno, W. E. Bottridge, H. W. Stegall, and L. D. Bowman, vice presidents; R. L. Megowen, secretary-treasurer.

Federation Package Differentials

The following schedule of package differentials, effective Oct. 22, 1930, has been issued by the Millers' National Federation:

BASIS 98-LB COTTON

Weight, lbs	Kind	Differential	No. to bbl	*Buyer's sacks
196	Wood	$ .90 over		
98	Wood	1.60 over		
140	Jute	.05 under		
98	Jute	Same as basis	2	
98	Cotton	Basis	2	
98	Bleached muslin	.10 over		
98	Cotton	.10 under	2	
49	Cotton	.20 over	4	$ .10
48	Cotton	.10 over	4	.10
24½	Cotton	.40 over	8	.10
24	Cotton	.30 over	8	.10
12¼	Cotton	.60 over	16	.15
12	Cotton	.50 over	16	.15
10	Cotton	.90 over	20	.20
9.8	Cotton	.80 over	20	.20
8	Cotton	.80 over	24	.25
7	Cotton	1.10 over	28	.30
6	Cotton	1.10 over	32	.35
5	Cotton	1.50 over	40	.40
4.9	Cotton	1.40 over	40	.40
4	Cotton	1.50 over	48	.50
3½	Cotton	1.70 over	56	.55
3	Cotton	1.80 over	64	.60
2	Cotton	2.70 over	96	.80
1½	Cotton	3.20 over	128	1.00
49	Paper	.10 over	4	.10
48	Paper	Same as basis	4	.10
24½	Paper	.20 over	8	.10
24	Paper	.10 over	8	.10
12¼	Paper	.40 over	16	.15
12	Paper	.30 over	16	.15
10	Paper	.70 over	20	.20
9.8	Paper	.60 over	20	.20
8	Paper	.60 over	24	.25
7	Paper	.80 over	28	.30
6	Paper	.80 over	32	.35
5	Paper	1.10 over	40	.40
4.9	Paper	1.00 over	40	.40
4	Paper	1.10 over	48	.50
3½	Paper	1.40 over	56	.55
3	Paper	1.50 over	64	.60
2	Paper	2.20 over	96	.80
1½	Paper	2.80 over	128	1.00
5	Cartons	2.90 over	140	

*Charge over bulk price for packing in buyer's sacks.

†Including shipping containers.

Additional charge per barrel for outside envelopes: jute (1 to bbl), 20c; jute (2 to bbl), 25c; cotton (2 to bbl), 25c; paper (4 to bbl), 25c.

All sales to be made basis 98-lb cotton.

A reduction of 15c per bbl from the half cotton basing price shall be made where the flour is packed in buyer's 98-lb bags, and a reduction of 10c per bbl from the 140-lb jute price where the flour is packed in buyer's 140-lb jute bags. Where sales are made in bulk, a charge of 5c bbl shall be made for cleaning, handling and storing buyers' second-hand bags.

Seller or buyer may not have option of shipping flour in cotton or jute sacks where either may have been specified at time of sale, except as may be agreed to by buyer and seller at time of shipment.

Foreign Correspondence Terms

A/B or Aktiebolag or Aktiebolaget—Swedish for limited liability company.

A-G or Actiengesellschaft—German for limited liability company.

A/S or Aktieselskabet—Danish for limited liability company.

A/S or Aktieselskab—Norwegian for limited liability company.

Cia—Italian for company.

Cie—French for company.

Aan de Firma—Dutch equivalent for to the firm.

De Heeren—Dutch equivalent for Messrs.

Di fu (as part of a name)—Italian equivalent for "son of the late or deceased."

Ditta—Italian equivalent for commercial house.

Efft. or Efterfolgere—Danish for successors.

Ezn, Azn, etc.—Dutch suffix to surnames, first letter indicating paternal first name, "zn" meaning zoon or son.

Fils—French for son or sons.

Figli—Italian for sons.

Figlio—Italian for son.

Firma (Associazione di Mercanti)—Italian for firm; also German.

Fratelli or Frili—Italian for brothers.

Frères—French for brothers.

Gebroeders or Gebrs.—Dutch for brothers.

Gebrüder—German for brothers.

Gesellschaft—German for company.

G.m.b.h. or Gesellschaft mit beschrankter Haftung—German for limited liability company.

Hermanos or Hnos.—Spanish for brothers.

Hijo—Spanish for son (plural, hijos).

Kauppa—Finnish for company.

Ltd. or Limited—English term for limited liability company.

Maatschappij—Dutch for company.

Nachf. or Nachfolge—German for successors.

N. V. Handelmaatschappij or Naamlooze Vennootschap Handelmaatschappij—Dutch for limited liability company.

O/Y or Osakeyhtio—Finnish for limited liability company.

Sohn—German for son (plural, soehne).

Señor Don—Spanish for Mr.

Señores—Spanish for Messrs.

Signor or Sig.—Italian for Mr.

Signores or Sigg.—Italian for Messrs.

Societa Anonima—Italian for limited liability company.

Société Anonyme—French for limited liability company.

Viuda de—Spanish for "widow of."

V/h of voorheen—Dutch for formerly.

y or &—Spanish for and.

Zoon—Dutch for son.

Fulton Bag & Cotton Mills

Atlanta St. Louis Dallas
Brooklyn Minneapolis New Orleans Kansas City, Kan.

FOREIGN WEIGHTS AND MEASURES

Equivalents in Avoirdupois

Argentine Republic—		
Ton, 1,000 kilos, equals	*2,204½	lbs
Hectare of land equals	2.471	acres
A "sack" of flour weighs	280	lbs
A "bag" of flour weighs	140	lbs
A barrel of flour weighs net	196	lbs
Russia—		
1 pood equals	36	lbs
10 poods equal 1 chetvert or	360	lbs
100 chetverts of wheat equal	72	qrs
100 chetverts of seed equal	83	qrs
100 chetverts of barley equal	85	qrs
100 chetverts of rye equal	74	qrs
100 chetverts of oats equal	68	qrs
France—		
1,000 kilogrammes equal	1	†ton
218.2 kilogrammes equal	480	lbs
225.45 kilogrammes equal	496	lbs
1 quintal, 100 kilos, equals	220½	lbs
150 charges equal	100	qrs
1 hectolitre equals	2.8	bus
Holland—		
1 last of wheat equals	10½	qrs
1 last of barley equals	10½	qrs
1 last of oats equals	10¾	qrs
1 German last of wheat equals	9½	qrs
100 Egyptian ardebs of wheat equal	62¼	qrs
816 Constantinople kilos equal	100	qrs
100 Galatz kilos equal	143	qrs
100 Ibrail kilos equal	252	qrs
100 Malta salmas of wheat equal	102	qrs
5 Spanish fanegas of wheat equal about	1	qr
350 Austrian stajas of wheat equal	100	qrs
25 Portuguese alqueire of wheat equal	1¼	qrs
472.61 Vienna metzen equal	100	qrs
19 Austro-Hungarian mints equal	4	qrs
1 Smyrna kile equals	1	bu
1 Barcelona cras of wheat equals	1.925	bus
10 Norway maas—1 maller—equal	4.126	bus
1 Vienna metze equals	1.1	bus
1 Chilean fanega equals	154½	lbs
1 mund Indian wheat seed equals	82	lbs
1 Chinese or Japanese picul equals	133⅓	lbs
1 Japanese koku equals	5.11	bus
A quarter weighs—		
English (8 bus)	480	lbs
California wheat	500	lbs
Other American wheat	480	lbs
Chilean wheat	480	lbs
South Russian wheat	492	lbs
American maize	480	lbs
Danubian maize	480	lbs
Danubian wheat	480	lbs
Odessa maize	492	lbs
Galatz maize	462	lbs
Barley	400	lbs
Oats varies from	304 to 336	lbs
Metric ton equals	2,204.6	lbs
A long ton equals	2,240	lbs
A short ton equals	2,000	lbs
100 kilos equal	220½	lbs
50 kilos equal	110¼	lbs

*In Argentine trade, is reckoned as 2,200 lbs. †Long ton.

To reduce bushels of American maize (corn) to quarters (480 lbs) multiply by 7 and divide by 60. To reduce sacks of flour (280 lbs) to barrels (196 lbs) multiply by 10 and divide by 7. Reverse operation to change 196 lbs into 280 lbs.

The weight of a barrel of flour is based on the old English "stone" of 14 lbs—14 stone being taken as a barrel. The sack has 20 stone; thus a 280-lb sack is 20-14ths of a barrel, or, for convenience of figuring, we say 10-7ths. Bearing this in mind, it is easy to reduce sacks to barrels, or vice versa.

To reduce cwts, English (112 lbs) of flour to barrels (196 lbs), multiply by 4 and divide by 7.

Metric System Equivalents

United States equivalents of the more important metric units:

LENGTH

1 inch ..... 2.54 centimeters
1 foot ..... .30.48 centimeters
1 yard ..... .91.44 centimeters
1 mile ..... 1.6093 kilometers
1 centimeter ..... .39 inch
1 meter ..... 3.28083 feet
1 kilometer ..... 3,280.83 feet

AREA

1 square foot ..... 929.0341 sq centimeters
1 square yard ..... .83613 sq meters
1 acre ..... .404687 hectares
1 square mile ..... 258.9998 hectares
1 square centimeter. .154997 sq inches
1 square meter ..... 1.195985 sq yards
1 hectare ..... 2.47104 acres

WEIGHT

1 pound ..... .45359 kilograms
1 short ton ..... .90718486 metric tons
1 kilogram ..... 2.204622 pounds
1 metric ton ..... 1.1023112 short tons

Conversion of Argentine and Metric Units

To convert the common Argentine units employed in connection with the grain and flour trade into their American equivalents, the following formulas may be used:

To convert wheat prices in Argentine paper money (m/n) per 100 kilos into prices per bushel in American gold, assuming the Argentine paper dollar to be worth at the time 35c, multiply the Argentine m/n price by 21, and divide by 220.

To convert metric tons into bushels of wheat (60 lbs), multiply the number of tons by 36.7.

To convert metric tons into barrels of flour (196 lbs), multiply the number of tons by 11.2.

To convert metric tons into bushels of flaxseed (56 lbs), multiply the number of tons by 39.3.

To convert metric tons into bushels of oats (32 lbs), multiply the number of tons by 68.9.

To convert metric tons into bushels of corn (56 lbs), multiply the number of tons by 39.3.

To convert metric tons into bushels of barley (48 lbs), multiply the number of tons by 45.9.

To convert hectares into acres, multiply the number of hectares by 2.471.

A quintal being one tenth of a metric ton, to convert quintals into bushels, multiply the number of quintals by one tenth of the figures given above for tons: 3.67 for wheat, 3.93 for flaxseed, 6.89 for oats, and 3.93 for corn.

CANADIAN PACKAGE DIFFERENTIALS

Domestic

The Canadian National Millers' Association has issued the following list of revised domestic package differentials. This cancels all previous schedules.

BASIS PER BBL—TWO 98'S, JUTE

Barrels	$ .70 per bbl over basis
Half barrels	1.40 per bbl over basis
Cotton—98's	.15 per bbl over basis
49's	.35 per bbl over basis
24's	.45 per bbl over basis
12's	.75 per bbl over basis
14's	.80 per bbl over basis
10's	1.05 per bbl over basis
7's	1.10 per bbl over basis
6's	1.10 per bbl over basis
Paper—24's	.20 per bbl over basis
7's	.70 per bbl over basis
3½'s	1.25 per bbl over basis
Jute 140's	.05 per bbl under basis
*Jute covers	.20 per bbl over basis
Cotton seamless sacks—	
120's	.30 per bbl over basis
*Gingham (10c per bbl over cotton)	.25 per bbl over basis

*Returned bags: All bags, flour and feed, 4c each, delivered in good order.
*Returned covers: All covers 10c each delivered in good order.
*Denotes change.

Export

The Canadian National Millers' Association has issued the following list of revised export package differentials. This cancels all previous schedules.

(Gross weight in each case)

Jute, 10½-oz Gourepore—	
140's	Basis
98's	5c per bbl over basis
110's	4c per bbl over basis
Jute 12-oz Gourepore—	
196's	Basis
220's	Basis
Cotton, export quality, 2½ yds per lb—	
140's	10c per bbl over basis
98's	10c per bbl over basis
112's	10c per bbl over basis
110's	10c per bbl over basis
Drill sacks—97's	20c per bbl over basis
Osnaburgs, 7-oz—	
220's	10c per bbl over basis
196's	10c per bbl over basis
Double cottons—	
98's	35c per bbl over basis
Doubles, inside cotton, outside jute—	
98's	.35c per bbl over basis
120's	30c per bbl over basis
125's	30c per bbl over basis
196's	20c per bbl over basis
Cottons, jute baled—	
5's (2½ kilos)	$1.30 per bbl over basis
11's (5 kilos)	90c per bbl over basis
22's (10 kilos)	75c per bbl over basis
12½'s	85c per bbl over basis
14's	85c per bbl over basis
20's	75c per bbl over basis
25's	75c per bbl over basis
10's	85c per bbl over basis
12½'s	85c per bbl over basis
24½'s	70c per bbl over basis
49's	45c per bbl over basis
Loose—49's	20c per bbl over basis
Standard quality barrels—	
196's	70c per bbl over basis
Extra strong barrels	$1.00 per bbl over basis

Packing in containers supplied by buyers, 20c per bbl under basis.

United Kingdom Weight Basis

All transactions in grain, meal, bran, potatoes, and agricultural seeds in the United Kingdom since Jan. 1, 1923, the date upon which the corn sales act of 1921 went into force, have been conducted on a price per hundredweight of 112 lbs. For many years the weights recognized in the different districts of England were a source of confusion. The corn sales act provides for uniformity in the weights and measures used in dealing with these articles.

Since Dec. 31, 1922, any contract, bargain, sale, or transaction in any of the articles to which the act applies has been null and void unless made by weight only, and in terms of or by reference to the hundredweight of 112 lbs.

Norway—Flour Trade

The Norwegian government monopoly, by which the government is the sole buyer of wheat and flour in Norway, was discontinued in July, 1927, and resumed on July 1, 1929.

Offers—To be made to mill agents in sacks (cotton or jute) of 100 kilos, c.i.f., Oslo.

Payment—Ninety days' sight draft against the Norwegian government monopoly. Hard wheat flours are mostly bought under brands furnished by the monopoly.

DISPOSITION OF FLOUR MILLED IN THE UNITED STATES

A table prepared by the Food Research Institute of Stanford University, California, shows the production and disposition of flour by crop years since 1879-80:

Year—July-June	Wheat ground: Totals, bus (000's omitted)	Wheat ground: Per bbl (bus)	Flour output, bbls (000's omitted)	Mixed feed output, tons (000's omitted)	Flour consumption: Totals, bbls (000's omitted)	Flour consumption: Per capita, bbls	Flour trade, bbls (000's omitted): Net exports and shipments	Re-exports	Domestic exports	Shipments to possessions
1879-80	.....	....	62,800	....	60,800	1.147	6,009	2.9	6,011	....
1880-81	.....	....	66,100	....	58,200	1.117	7,946	2.4	7,946	....
1881-82	.....	....	65,400	....	59,500	1.147	5,916	4.2	5,916	....
1882-83	.....	....	70,100	....	60,900	1.147	9,205	2.6	9,206	....
1883-84	.....	....	71,400	....	62,300	1.147	9,150	1.8	9,152	....
1884-85	.....	....	74,300	....	63,700	1.147	10,647	1.3	10,648	....
1885-86	342,900	4.678	73,300	3,100	66,100	1.147	8,177	1.8	8,179	....
1886-87	369,100	4.727	78,100	3,420	66,600	1.147	11,517	1.0	11,518	....
1887-88	374,000	4.674	80,000	3,380	68,000	1.117	11,964	2.6	2.6	11,964
1888-89	368,600	4.670	78,300	3,320	69,500	1.147	9,374	1.2	....	9,375
1889-90	396,200	4.746	83,500	3,700	71,200	1.147	12,333	1.2	2.3	12,232
1890-91	395,200	4.701	84,100	3,620	72,700	1.147	11,344	5.4	5.4	11,344
1891-92	420,700	4.720	89,100	3,890	73,900	1.147	15,196	0.6	0.1	15,197
1892-93	429,600	4.670	92,000	3,870	76,400	1.147	16,620	0.4	....	16,620
1893-94	441,100	4.708	93,700	4,050	76,800	1.147	16,860	0.4	....	16,860
1894-95	440,200	4.704	93,600	4,040	78,300	1.147	15,267	1.9	....	15,269
1895-96	441,800	4.678	94,400	4,000	79,800	1.147	14,620	1.4	0.2	14,621
1896-97	451,200	4.704	95,900	4,140	81,300	1.147	14,569	2.2	1.3	14,570
1897-98	464,000	4.723	98,200	4,290	82,900	1.147	15,348	2.7	1.4	15,350
1898-99	483,900	4.701	102,900	4,430	84,500	1.147	18,186	0.9	1.0	18,186
1899-1900	486,300	4.731	101,800	4,610	86,200	1.147	15,698	0.7	0.1	15,699
1900-01	508,600	4.764	107,000	4,770	88,100	1.147	18,886	0.6	15.4	18,651
1901-02	508,200	4.708	108,000	4,670	90,000	1.147	18,002	0.4	0.2	17,759
1902-03	525,800	4.704	111,800	4,820	91,600	1.145	20,126	0.6	0.7	19,316
1903-04	519,100	4.716	110,000	4,790	92,700	1.135	17,374	46.9	36.1	16,999
1904-05	492,200	4.784	102,900	4,680	93,700	1.126	9,141	40.8	3.8	8,826
1905-06	513,300	4.708	109,000	4,710	94,700	1.116	14,292	45.3	....	13,919
1906-07	522,600	4.678	111,700	4,730	95,700	1.106	15,985	47.7	0.5	15,585
1907-08	519,400	4.681	111,000	4,710	96,600	1.096	14,319	39.6	0.1	13,927
1908-09	508,300	4.678	108,000	4,570	97,100	1.087	10,902	92.4	....	10,521
1909-10	506,700	4.693	108,000	4,620	98,600	1.077	9,391	144.8	....	9,041
1910-11	513,400	4.670	109,900	4,630	99,400	1.067	10,500	141.6	....	10,129
1911-12	522,700	4.697	111,300	4,770	99,900	1.058	11,366	158.8	0.1	11,006
1912-13	526,700	4.678	112,600	4,770	100,800	1.048	11,832	107.6	1.0	11,396
1913-14	532,600	4.662	114,200	4,780	102,000	1.038	12,267	89.8	1.4	11,822
1914-15	568,900	4.689	119,200	5,090	102,600	1.029	16,626	64.2	1.5	16,183
1915-16	557,100	4.693	118,700	5,080	103,000	1.019	16,751	329.9	10.2	15,521
1916-17	547,100	4.723	115,800	5,060	103,500	1.009	12,296	174.7	2.2	11,943
1917-18	530,900	4.661	113,400	4,620	94,000	.907†	22,932	675.1	79.6	23,006‡
1918-19	545,000	4.450	122,500	4,350	91,500	.888†	29,579‡	37.1	0.8	29,083‡
1919-20	605,900	4.645	130,400	5,390	94,600	.895	22,141	169.1	12.8	21,652
1920-21	458,500	4.712	97,300	4,220	96,300	.897	16,364	1,420.9	45.9	16,180
1921-22	537,900	4.727	113,800	4,990	98,000	.898	15,820	619.1	84.2	15,797
1922-23	539,200	4.701	114,700	4,940	99,600	.900	15,008	429.4	13.3	14,883
1923-24	560,600	4.700	119,300	5,130	101,500	.901	17,708	169.1	13.3	17,253
1924-25	546,600	4.661	117,500	4,880	102,900	.903	14,485	6.7	4.9	13,896
1925-26	542,900	4.705	115,400	4,980	104,700	.905	10,103	17.3	11.0	9,542
1926-27	566,000	4.639	122,000	5,023	106,400	.907	14,025	6.0	3.6	13,385
1927-28	565,500	4.689	120,600	5,146	108,000	.908	13,377	5.7	3.1	12,821
1928-29	574,200	4.646	123,600	5,115	109,600	.909	13,548	2.6	2.7	12,888
1929-30	572,900	4.672	122,400	5,160	111,300	.910	13,630	1.7	2.7	13,009

*Included in domestic exports to 1899-1900. †Expeditionary forces excluded from population estimate. ‡Including, in addition to the Department of Commerce figures, shipments to the A. E. F., A. R. C., and relief organizations as reported by the Food Administration and the Grain Corporation, totaling 1,216,000 bbls in 1917-18 and 1,890,000 in 1918-19.

WHEAT—SUPPLY, DISTRIBUTION AND PER CAPITA DISAPPEARANCE IN THE UNITED STATES

A table prepared by the Bureau of Agricultural Economics, United States Department of Agriculture, showing the supply and distribution of the wheat crop in the United States, by years beginning July 1, in bushels (000's omitted):

Supply—	Average 1909-13	Average 1914-20	Average 1921-25	1925	1926	1927	1928	1929	1930
Stocks on farms, July 1	28,872	32,631	37,059	29,357	20,982	27,222	23,729	45,483	.....
Stocks in country mills and elevators, July 1	29,000	26,997	30,991	25,287	29,501	21,776	19,277	40,136	.....
Commercial visible (Bradstreet's) July 1	21,168	19,290	25,519	29,285	16,486	25,516	42,208	95,684	.....
Stocks of flour (in terms of wheat) July 1	8,305	8,606	8,676	8,530	9,757	9,076	9,019	13,541	.....
In merchant mills and elevators	...	...	...	22,576	24,505	37,038	31,920	48,279	.....
In transit	...	...	...	9,000	7,360	11,274	10,893	16,237	.....
New crop	690,108	844,605	804,148	676,429	831,040	878,374	911,876	806,503	.....
Imports (flour included), July 1 to June 30	1,834	19,806	17,473	15,079	13,261	15,734	21,442	.....	.....
Total supply	782,287	951,935	923,866	816,113	952,886	1,026,010	1,073,361	.....	.....
Distribution—									
Exports (flour included), July 1 to June 30	107,103	257,030	207,237	108,035	219,160	206,269	163,670	.....	.....
Re-exports, July 1 to June 30	195	562	221	313	98	53	55	.....	.....
Shipments (flour included) to Alaska, Hawaii and Porto Rico	2,549	2,546	2,836	2,741	3,082	2,690	72	.....	.....
Estimated seed requirements	72,326	88,312	86,849	83,180	88,919	95,739	88,043	.....	.....
Carry-over on June 30—									
On farms	32,485	36,127	29,913	20,973	27,222	23,729	45,483	.....	.....
In country mills and elevators	31,600	26,449	31,457	29,501	21,776	19,277	40,136	.....	.....
Commercial visible (Bradstreet's)	25,326	18,265	26,822	16,484	25,516	42,208	95,684	.....	.....
Flour (in terms of wheat)	8,305	8,290	9,240	9,757	9,076	9,019	13,541	.....	.....
In merchant mills and elevators	...	...	...	24,640	37,038	31,920	48,279	.....	.....
In transit	...	...	...	7,390	11,274	10,893	16,237	.....	.....
Total distribution	280,519	437,581	394,373	303,014	443,161	441,787	511,200	.....	.....
Disappearance for food, feed and loss	501,768	514,354	529,493	513,129	509,721	584,223	562,161	.....	.....
Population Jan. 1 (in thousands)	94,378	102,880	112,696	116,257	117,882	119,320	†	.....	.....
Per capita disappearance, food, feed and loss, bus	5.3	5.0	4.7	4.4	4.3	4.9	.....	.....	.....

*Seven-year average. †No official figure available.

London—Flour Trade Association

The London Flour Trade Association was established in 1884. There are 88 firms which are members of the association, the principal object of which is to promote and establish in flour and kindred trades uniformity in common usages, founded upon just and equitable principles, especially with regard to contracts, charter parties, bills of lading and policies of insurance. It also appoints arbitrators and umpires, when necessary, to decide any disputes that may arise in connection with contracts.

The officers are: president, D. Clements; vice president, A. G. Buttifant; secretary, W. T. Odam; treasurer, P. Cooper.

Irish Free State—Milling

The Department of Industry and Commerce of the Irish Free State reports that there are 750 grain mills in the country, of which 650 are so small that their output is less than 5 per cent of the total of all mills. Of the 105 more important mills, each of which had a gross output valued at £5,000 or over in 1929, only 31 produced wheat flour, 15 produced wheat meal, and the remaining 59 did not mill any wheat. As 28 out of the 31 mills which made flour also milled corn, a separate account of wheat flour milling is not available. Of the 105 important mills, 99 milled corn.

FLOUR MILLING CAPACITY AND THE OUTPUT OF FLOUR

A Section Devoted to Statists With Regard to the Flour Milling Capacity of the More Important Centers With a Record of the Amount of Flour Ground in These Districts—Principal Milling Centers Have the Names of Their Milling Companies Listed.

PRODUCTION OF FLOUR BY MILLS IN THE NORTHWEST

The flour output of spring wheat mills in Minnesota, the Dakotas and Montana, for the crop year ended Aug. 31, 1930, was 24,089,127 bbls, or 2,341,910 less than in 1928-29. Of this loss, 2,236,000 bbls were in Minnesota. Minneapolis produced approximately 736,000 less than in the preceding year, Duluth 86,000 less, and interior mills 1,413,000 less. North Dakota and South Dakota mills increased their production slightly, but Montana fell off 210,000 bbls. During the year under consideration, interior Minnesota mills operated at 55.1 per cent of their capacity, Duluth 61.2 per cent and Minneapolis 51.5 per cent. These figures have been arrived at from reports received by The Northwestern Miller from the mills in the four states named.

An analysis of the figures shows that out of a total of 8,667,000 bbls made by 100 Minnesota mills, outside of Minneapolis and Duluth, 7,000,000 bbls, or almost 81 per cent, were produced by only 19 companies. In North Dakota, five mills out of 27 reporting made 81 per cent of the flour produced in that state.

The recapitulation emphasizes the steadily decreasing number of mills in actual operation. The total for Minnesota and the Dakotas for the last crop year was 172, compared with 509 for the year 1905-6. In Minnesota there were 47 mills idle the entire crop year, in North Dakota 19 and in South Dakota 13.

	Output			No. of mills	
	1928-29	1929-30	*Pct. -29	1928 -29	1929 -30
Minn..	22,614,272	20,278,207	—9.9	125	121
N. D...	1,247,715	1,330,117	+6.6	32	27
S. D...	292,737	314,671	+7.5	27	24
Mont...	2,376,311	2,166,132	—8.8	44	40
Totals	26,431,036	24,089,127	—9.8	228	212

*Increase or decrease.

COMPARATIVE FIGURES

A comparative table as to the wheat consumption in two years, in bushels (000's omitted), shows:

Mills in—	1929-30	1928-29	De-crease
Minneapolis	47,205	50,518	3,313
Duluth	5,045	5,435	390
Minnesota, interior	39,002	45,362	6,360
Totals	91,252	101,315	10,063
North Dakota	5,986	5,615	*371
South Dakota	1,416	1,317	*99
Montana	9,748	10,693	945
Totals	108,402	118,940	10,538

*Increase.

PRODUCTION IN BARRELS

The production, in barrels, of the flour states for the crop year ended Aug. 31, and for the previous one, with the percentage of increase or decrease and the number of mills, is shown here:

	Output			No. of mills	
	1928-29	1929-30	*Pct. -29	1928 -29	1929 -30
Minn..	23,614,272	20,278,207	—9.9	125	121
N. D...	1,247,715	1,330,117	+6.6	32	27
S. D...	292,737	314,671	+7.5	27	24
Mont...	2,376,311	2,166,132	—8.8	44	40
Totals	26,431,036	24,089,127	—9.8	228	212

*Increase or decrease.

PERCENTAGE OF CAPACITY OPERATED

Percentage of output to full capacity based on 300 running days of mills of all sizes in the Northwest, by days ending Aug. 31, 1930:

	1,000 and over	500 to 1,000	200 to 500	100 to 200	Less than 100	Average
Minnesota.	59.6	51.8	43.8	27.6	17.8	55.1
N. Dakota.	42.2	46.1	32.1	26.8	18.4	39.2
S. Dakota.	...	...	34.7	62.0	29.4	39.3
Montana ..	78.9	40.3	19.2	...	23.6	60.1

1928-29 COMPARISON

	1,000 and over	500 to 1,000	200 to 500	100 to 200	Less than 100	Average
Minnesota.	69.7	55.0	58.6	18.4	17.0	61.6
N. Dakota.	33.9	48.3	32.4	31.3	22.8	35.0
S. Dakota.	...	...	25.3	58.7	23.4	34.8
Montana ..	80.9	50.8	16.9	50.3	15.9	60.7

PRODUCTION IN THE NORTHWEST

The yearly capacity, flour production and percentage of activity for the crop year ending Aug. 31, 1930, of the mills in the Northwest:

	Yearly capacity	Flour made	Pct. of activity
Minnesota†	15,720,000	8,667,208	55.1
North Dakota	3,385,500	1,330,117	39.2
South Dakota	798,900	314,671	39.3
Montana	3,603,000	2,166,132	60.1
Minneapolis	20,355,000	10,489,959	51.5
Duluth	1,830,000	1,121,040	61.2

†Minneapolis and Duluth not included.

1928-29 PRODUCTION

	Yearly capacity	Flour made	Pct. of activity
Minnesota†	16,356,000	10,080,407	61.6
North Dakota	3,558,000	1,247,715	35.0
South Dakota	843,400	292,737	34.8
Montana	3,912,000	2,376,311	60.7
Minneapolis	20,175,000	11,226,145	55.6
Duluth	1,830,000	1,207,721	65.9

†Minneapolis and Duluth not included.

COMPARED WITH OTHER YEARS

Totals for a series of years, covering all mills in Minnesota, North and South Dakota:

	Output, bbls	Ground, bus
1929-30, 172 mills	21,922,995	98,653,474
1928-29, 184 mills	24,054,725	108,246,262
1927-28, 209 mills	26,625,200	119,813,402
1926-27, 218 mills	26,820,598	120,692,694
1925-26, 248 mills	26,745,994	120,356,973
1924-25, 287 mills	26,503,713	119,266,706
1923-24, 288 mills	28,030,520	126,137,341
1922-23, 341 mills	30,556,876	137,504,591
1921-22, 388 mills	28,727,803	129,275,163
1920-21, 381 mills	27,852,487	125,336,203
1919-20, 424 mills	31,811,814	143,153,171
1918-19, 428 mills	32,874,645	147,935,903
1917-18, 418 mills	29,018,656	130,584,446
1916-17, 360 mills	31,987,284	138,743,315
1915-16, 364 mills	37,455,386	169,449,774
1914-15, 382 mills	30,923,249	139,154,640
1913-14, 406 mills	34,585,796	155,636,000
1912-13, 413 mills	35,355,442	159,098,000
1911-12, 426 mills	29,908,145	134,586,666
1910-11, 434 mills	29,142,500	131,141,785
1909-10, 487 mills	31,729,677	142,784,552
1908-9, 469 mills	27,242,396	122,590,857
1907-8, 487 mills	26,679,554	120,057,995
1906-7, 475 mills	29,636,862	133,365,881
1905-6, 509 mills	30,763,535	138,436,000

MINNESOTA

The following table shows in detail the number of flour mills in Minnesota (outside of Duluth and Minneapolis), together with the capacity ratings and the amount of flour produced and wheat ground in the crop year ended Aug. 31, 1930, with previous years' records for comparison:

No.	Capacity, mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
19	1,000 and over	39,100	7,000,246	31,501,105
9	500 to 1,000	6,100	947,911	4,265,600
2	400 to 500	850	250,722	1,128,246
1	300 to 400	300	33,823	152,203
1	200 to 300	250	3,660	16,500
11	100 to 200	1,385	114,832	516,746
18	Less than 100	1,050	56,250	253,127
61	mills reporting	49,035	8,387,384	37,743,223

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
39 mills	3,365	279,824	1,259,205
Totals, 100 Minnesota mills	52,400	8,667,208	39,002,434

In addition 47 were idle, 1 went out of business and 1 burned.

Year ending Aug 31, 1929:

No.	Capacity, mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
19	1,000 and over	39,100	8,186,512	36,839,306
12	500 to 1,000	7,860	1,296,899	5,836,000
2	400 to 500	850	220,999	994,495
1	300 to 400	300	40,949	184,272
2	200 to 300	500	28,460	128,072
15	100 to 200	1,955	108,338	487,520
21	Less than 100	1,315	67,431	303,439
73	mills reporting	51,870	9,949,578	44,773,104

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
32 mills	2,650	130,829	588,730
Totals, 105 Minnesota mills	54,520	10,080,407	45,361,834

In addition 46 were idle, 6 went out of business.

NORTH DAKOTA

Figures for year ending Aug. 31, 1930:

No.	Capacity mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
4	1,000 and over	7,600	964,193	4,338,867
1	400 to 1,000	850	117,242	529,840
3	300 to 400	950	84,426	379,916
2	200 to 300	450	50,422	226,901
2	100 to 200	250	20,111	90,500
5	Less than 100	250	13,847	62,310
17	mills reporting	10,350	1,250,741	5,628,334

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
10 mills	935	79,376	357,191
Totals, 27 North Dakota mills	11,285	1,330,117	5,985,525

In addition, 19 mills were idle, 3 out of business, 1 burned.

Year ending Aug. 31, 1929:

No.	Capacity mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
4	1,000 and over	7,600	774,301	3,484,354
1	400 to 1,000	850	123,250	554,627
3	300 to 400	960	78,563	353,535
3	200 to 300	650	77,313	347,906
2	100 to 200	250	23,484	105,680
5	Less than 100	235	16,076	72,340
18	mills reporting	10,535	1,092,987	4,918,442

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
14 mills	1,325	154,728	696,276
32 mills	11,860	1,247,715	5,614,718

In addition, 19 mills were idle, 3 out of business.

SOUTH DAKOTA

Year ending Aug. 31, 1930:

No.	Capacity mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground bus
2	200 to 400	950	93,951	422,780
3	100 to 200	400	62,609	281,700
6	Less than 100	288	25,472	114,624
10	mills reporting	1,588	182,023	819,104

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground bus
14 mills	1,065	132,648	596,916
24 mills	2,663	314,671	1,416,020

In addition, 13 mills were idle, 3 out of business.

Year ending Aug. 31, 1929:

No.	Capacity mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
3	200 to 400	900	68,396	307,784
3	100 to 200	375	66,107	297,483
8	Less than 100	583	40,947	184,260
14	mills reporting	1,858	175,450	789,527

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
13 mills	950	117,287	527,791
27 mills	2,808	292,737	1,317,318

In addition, 12 mills were idle, 3 out of business.

MONTANA

Year ending Aug. 31, 1930:

No.	Capacity mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	7,050	1,669,777	7,514,003
5	400 to 1,000	2,350	344,712	1,551,158
5	100 to 300	950	54,721	246,242
10	Less than 100	410	29,134	131,103
25	mills reporting	11,260	2,098,344	9,442,546

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
15 mills	750	67,788	305,046
40 mills	12,010	2,166,132	9,747,592

In addition, 14 mills were idle.

Year ending Aug. 31, 1929:

No.	Capacity mills rating, bbls	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	7,050	1,711,024	7,699,607
4	500 to 1,000	3,100	472,391	2,125,760
5	200 to 300	1,200	60,817	273,677
2	100 to 200	325	33,297	153,284
12	Less than 100	415	19,850	89,461
28	mills reporting	11,290	2,298,109	10,341,489

Mills not reporting, but estimated:

	Daily capacity, bbls	Flour made, bbls	Wheat ground, bus
16 mills	1,050	78,202	351,903
44 mills	13,040	2,376,311	10,693,392

In addition, 11 mills were idle and 1 burned.

SUMMARY BY CROP YEARS

No. mills		Output, bbls	Ground, bus
1929-30—			
100	Minnesota*	8,667,208	39,002,434
27	North Dakota	1,330,117	5,985,525
24	South Dakota	314,671	1,416,020
40	Montana	2,166,132	9,747,592
191	Totals	12,478,128	56,151,571
19	Minneapolis	10,489,969	47,204,815
2	Duluth	1,121,040	5,044,680
212	Grand totals	24,089,127	108,401,066
1928-29—			
105	Minnesota*	10,080,407	45,361,834
32	North Dakota	1,247,715	5,614,718
27	South Dakota	292,737	1,317,318
44	Montana	2,376,311	10,693,398
208	Totals	13,997,170	62,987,265
18	Minneapolis	11,226,145	50,517,653
2	Duluth	1,207,721	5,434,745
228	Grand totals	26,431,036	118,939,666
1927-28—			
123	Minnesota*	10,795,761	48,580,925
33	North Dakota	1,400,204	6,300,918
31	South Dakota	460,632	2,072,846
48	Montana	2,143,554	9,672,993
235	Totals	14,806,151	66,627,682
20	Minneapolis	12,902,419	58,060,885
2	Duluth	1,066,184	4,797,828
257	Grand totals	28,774,754	129,486,395
1926-27—			
136	Minnesota	13,749,894	57,374,450
51	North Dakota	1,064,878	4,791,948
31	South Dakota	358,931	1,615,190
46	Montana	1,908,369	8,587,663
240	Totals	16,082,062	72,369,281
20	Minneapolis	11,184,865	50,331,892
2	Duluth	884,717	3,981,226
2	St. Paul	577,324	2,597,958
264	Grand totals	28,728,968	129,280,357
1925-26—			
159	Minnesota	10,399,214	46,796,963
52	North Dakota	1,750,206	7,875,928
42	South Dakota	622,084	2,799,377
50	Montana	1,583,118	7,124,953
294	Totals	14,243,622	64,936,200
23	Minneapolis	12,509,056	56,290,752
2	Duluth	1,005,863	4,526,384
2	St. Paul	570,571	2,567,570
321	Grand totals	28,329,112	127,491,006
1924-25—			
158	Minnesota†	11,722,200	52,749,899
60	North Dakota	1,852,736	8,337,312
38	South Dakota	738,813	3,324,153
58	Montana	2,117,534	9,528,857
316	Totals	16,208,272	72,937,221
26	Minneapolis	10,965,152	49,361,184
2	Duluth	1,003,148	4,541,166
2	St. Paul	434,663	1,955,932
345	Grand totals	28,621,237	128,795,503
1923-24—			
158	Minnesota†	10,133,153	45,599,214
61	North Dakota	3,408,663	15,338,985
29	South Dakota	726,733	3,270,298
58	Montana	1,531,403	6,892,210
306	Totals	15,800,154	71,100,691
26	Minneapolis	12,191,411	54,861,349
3	Duluth	945,128	4,253,076
2	St. Paul	625,430	2,814,435
346	Grand totals	29,562,123	133,029,551
1922-23—			
193	Minnesota†	10,595,269	47,678,670
66	North Dakota	3,102,003	3,469,020
52	South Dakota	387,110	1,741,995
65	Montana	2,708,743	12,189,347
376	Totals	15,793,114	71,069,052
26	Minneapolis	15,730,868	70,788,906
2	Duluth	1,086,652	4,890,000
2	St. Paul	653,615	2,941,000
406	Grand totals	33,264,249	149,688,958
1921-22—			
216	Minnesota†	9,373,829	42,182,263
74	North Dakota	3,356,533	10,604,439
67	South Dakota	685,714	3,086,723
71	Montana	1,661,641	7,477,401
428	Totals	14,077,722	63,349,816
26	Minneapolis	14,990,087	67,455,391
3	Duluth	849,686	3,823,582
2	St. Paul	471,950	2,123,775
459	Grand totals	30,389,444	136,752,563
1920-21—			
212	Minnesota†	9,204,756	41,421,405
62	North Dakota	2,106,722	9,480,201
66	South Dakota	736,723	3,540,256
63	Montana	1,629,931	6,884,702
410	Totals	13,678,142	61,326,664
26	Minneapolis	14,524,845	65,361,803
3	Duluth	721,000	3,244,500
2	St. Paul	508,431	2,287,939
441	Grand totals	29,382,418	132,220,205
1919-20—			
242	Minnesota†	10,563,379	47,535,207
78	North Dakota	1,913,188	8,604,807
72	South Dakota	719,616	3,238,227
68	Montana	945,069	4,252,810
460	Totals	14,140,252	63,631,101
26	Minneapolis	17,117,610	77,029,245
3	Duluth	1,032,000	4,644,000
2	St. Paul	467,021	2,101,536
491	Grand totals	32,756,883	147,405,941
1918-19—			
246	Minnesota†	11,742,116	52,839,523
82	North Dakota	2,612,102	11,745,461
71	South Dakota	918,411	4,132,852
75	Montana	2,171,262	9,770,693
474	Totals	17,450,891	78,529,019
26	Minneapolis	16,643,630	74,446,335
3	Duluth	1,051,385	4,731,233
503	Grand totals	35,045,906	157,706,587
1917-18—			
242	Minnesota†	9,762,910	43,933,641
78	North Dakota	2,150,945	9,679,249
69	South Dakota	815,901	3,671,557
56	Montana	1,770,462	7,967,079
445	Totals	14,500,118	65,250,519
26	Minneapolis	15,254,000	68,643,000
3	Duluth	1,035,000	4,658,000
474	Grand totals	30,789,118	138,551,519
1916-17—			
294	Minnesota†	10,663,635	47,987,136
70	North Dakota	2,230,032	9,405,423
63	South Dakota	1,301,497	3,356,756
55	Montana	1,549,044	6,970,910
391	Totals	16,204,370	67,720,225
25	Minneapolis	16,235,000	73,058,000
3	Duluth	1,097,000	4,936,000
419	Grand totals	33,536,370	145,714,225

*Includes St. Paul. †Outside of Minneapolis, St. Paul and Duluth. ‡Outside of Minneapolis and Duluth.

Holland—Importers' Associations

The interests of the imported flour trade in Holland are looked after by two associations. One is the Nederlandsche Vereeniging van Meelimporteurs (the Netherlands Association of Flour Importers), Amsterdam, of which the following are the officers: president, J. P. Meurs; vice president, W. H. M. Heslenfeld; treasurer, J. J. Nijs; secretary, Jacques Luchsinger. The other association is the Bond van Nederlandsche Meelimporteurs (Association of Netherlands Flour Importers), Rotterdam, of which the following are the officers: president, Piet Penn; vice president, F. Grippeling; members, J. C. Oslack and J. Vieyra; secretary-treasurer, J. S. Hoek.

PRODUCTION AND CAPACITY OF MILLS IN THE SOUTHWEST

Production figures compiled by the Kansas City office of The Northwestern Miller show that in the crop year ended June 30, 1930, flour mills of Kansas, Nebraska, Oklahoma and the Kansas City and St. Joseph, Mo., terminals made 31,046,693 bbls of flour, a reduction of nearly 1,250,000 from the year previous, but substantially more than in the 1927-28 milling year.

Oklahoma is the only unit of the southwestern milling field showing increased production for the crop year, rating a gain of 19 per cent over the previous year, while other states and terminal production centers showed losses. The improved showing in Oklahoma may be attributed to greater activity of the plants of General Mills, Inc., in that state and to the heavy production of the new Pillsbury mill at Enid.

Aside from the reduced production, no important changes in the general milling situation are shown by the crop year data. A few more mills have been removed from the active list in each state, continuing the steady reduction in number of mills in the field which has been going on for 20 or more years.

Production in barrels of the three states and of Kansas City and St. Joseph, Mo., mills for the crop year ended June 30, 1930, and for the previous year, and percentage of increase or decrease are here shown:

	Year ended June 30 1928-29	1929-30	*Per cent
Kansas	16,424,198	15,084,142	—8.1
Oklahoma	2,739,870	3,262,310	+19.0
Nebraska	3,524,914	3,428,256	—2.7
Kansas City..	7,908,365	7,824,008	—1.0
St. Joseph ...	1,599,417	1,447,977	—9.4
Totals	32,197,264	31,046,693	—3.5

*Increase or decrease.

Following are the details of the figures on flour production of southwestern mills, together with supplementary memoranda covering production at principal terminals and interior centers, all compiled from the reports made by the mills direct to The Northwestern Miller:

KANSAS

The following table shows in detail the number of flour mills in Kansas (outside of Kansas City), together with the capacity ratings and the amount of flour produced and wheat ground in the crop year ended June 30, 1930, with previous years' records for comparison:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
28	1,000 and over	49,300	10,216,600	46,933,185
34	500 to 1,000	21,580	3,796,033	17,440,437
19	200 to 500	5,930	967,296	4,458,583
15	100 to 200	1,835	71,837	344,468
13	Less than 100	665	32,376	158,996
109		79,310	15,084,142	69,335,969

Note: Nonreporting Kansas mills of 200 bbls and less capacity estimated at same rate of activity as reporting mills of like size. All mills not operated for past two years eliminated from active list.

Year ending June 30, 1929:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
30	1,000 and over	50,400	11,073,847	50,492,899
34	500 to 1,000	21,580	4,153,407	19,023,306
19	200 to 500	5,930	965,353	4,406,774
16	100 to 200	2,145	160,260	742,978
13	Less than 100	665	41,331	201,668
112		80,720	16,424,198	74,867,625

Year ending June 30, 1928:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
33	1,000 and over	55,200	9,359,624	42,643,974
39	500 to 1,000	24,200	3,833,701	17,448,601
22	200 to 500	6,805	885,005	4,046,269
15	100 to 200	2,055	110,335	495,633
16	Less than 100	805	41,667	200,649
125		89,165	14,230,332	64,835,126

Year ending June 30, 1927:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
31	1,000 and over	52,800	10,833,694	48,793,927
38	500 to 1,000	24,025	4,149,549	18,700,806
25	200 to 500	7,705	1,196,421	5,407,666
20	100 to 200	2,670	265,753	1,213,192
21	Less than 100	1,005	66,729	316,280
135		88,205	16,512,146	74,431,271

Year ending June 30, 1926:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
30	1,000 and over	49,950	8,019,895	36,528,094
41	500 to 1,000	25,435	3,099,832	14,222,265
26	200 to 500	7,905	899,314	4,054,755
26	100 to 200	3,385	253,175	1,172,359
27	Less than 100	1,265	76,877	362,057
150		87,940	12,349,093	56,339,530

Year ending June 30, 1925:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
29	1,000 and over	48,000	9,079,638	41,284,035
40	500 to 1,000	25,145	4,241,821	19,179,129
30	200 to 500	9,190	1,285,423	5,920,515
27	100 to 200	3,420	344,845	1,599,822
33	Less than 100	1,530	105,361	489,537
159		87,285	15,057,031	68,473,038

Year ending June 30, 1924:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
28	1,000 and over	47,170	8,241,558	37,444,297
43	500 to 1,000	26,560	3,869,093	17,669,395
31	200 to 500	9,095	1,193,163	5,314,540
28	100 to 200	3,675	348,188	1,619,718
32	Less than 100	1,574	125,312	580,043
162		88,074	13,777,314	62,617,993

PERCENTAGE OF CAPACITY OPERATED

Percentage of output to full capacity based on 300 running days of mills of all sizes in Kansas, by years ending June 30:

Year	1,000 and over	500 to 1,000	200 to 500	100 to 200	Less than 100	Average
1930..	69.0	58.6	54.3	13.0	16.2	63.3
1929..	73.2	64.6	54.2	24.9	20.7	67.8
1928..	66.4	52.8	43.3	17.9	17.2	53.2
1927..	68.0	57.0	51.0	33.0	21.0	62.0
1926..	53.0	40.0	37.0	25.0	20.0	46.0
1925..	63.0	56.0	46.0	33.0	23.0	57.0
1924..	58.0	49.0	43.0	31.0	26.0	53.0
1923..	53.0	50.0	46.0	32.0	26.0	55.0
1922..	62.0	64.0	47.0	34.0	21.0	59.0
1921..	54.7	60.2	40.3	24.5	15.7	48.3
1920..	65.2	65.1	55.5	33.2	23.5	60.6
1919..	59.3	57.0	48.6	33.4	22.3	54.3
1918..	53.5	53.0	48.9	30.2	18.1	49.9
1917..	64.0	68.0	58.0	36.0	26.0	61.0
1916..	68.0	64.7	52.3	38.5	30.5	62.8
1915..	70.5	71.8	63.6	39.3	28.6	67.0
1914..	69.6	61.0	44.4	38.6	28.0	62.7
1913..	67.6	64.0	60.7	30.5	32.2	59.8
1912..	56.3	59.3	53.4	28.0	27.2	51.4
1911..	57.2	63.8	52.0	30.1	27.2	53.2
1910..	53.0	63.0	59.0	44.0	29.0	54.5
1909..	50.0	58.5	52.1	41.0	36.1	56.1
1908..	62.5	64.0	60.0	42.6	26.7	51.1
Av'ge	61.1	59.6	52.7	31.9	24.4	56.9

CONSOLIDATED BY YEARS

The number of active flour mills in Kansas, the number of barrels of flour produced and the number of bushels of wheat ground, by years ending June 30:

Year—	All mills No.	All mills Cap.	Flour produced	Wheat consumed
1929-30..	109	79,310	15,084,142	69,335,969
1928-29..	112	80,720	16,424,198	74,867,625
1927-28..	125	89,165	14,230,332	64,835,126
1926-27..	135	88,205	16,512,146	74,431,271
1925-26..	150	87,940	12,349,093	56,339,530
1924-25..	159	87,285	15,057,031	68,473,048
1923-24..	162	88,074	13,777,314	62,617,993
1922-23..	179	92,494	15,442,713	70,902,485
1921-22..	175	90,515	16,065,371	73,036,650
1920-21..	205	85,374	12,375,236	56,434,592
1919-20..	206	85,694	15,577,549	72,024,340
1918-19..	203	81,419	13,271,193	59,142,807
1917-18..	198	78,045	10,901,449	49,233,846
1916-17..	166	66,362	11,932,186	55,222,279
1915-16..	169	64,807	12,213,447	56,074,464
1914-15..	177	62,620	12,599,151	56,417,605
1913-14..	164	60,336	11,303,289	51,487,052
1912-13..	182	69,500	10,688,566	49,406,226
1911-12..	191	61,140	9,440,921	42,736,504
1910-11..	211	63,870	10,207,358	46,215,005
1909-10..	226	62,375	10,197,152	46,134,812

CAPACITY BY YEARS

The following table shows the number of mills of over 200 bbls capacity and of mills of less than 200 bbls, with total capacity of mills of each class and total capacity of all mills:

	Over 200 bbls No.	Over 200 bbls Cap.	Less than 200 bbls No.	Less than 200 bbls Cap.	All mills No.	All mills Cap.
1929-30..	82	76,810	27	2,500	109	79,310
1928-29..	83	77,910	29	2,810	112	80,720
1927-28..	94	86,305	31	2,860	125	89,165
1926-27..	94	84,530	41	3,675	135	88,205
1925-26..	97	83,290	53	4,650	150	87,940
1924-25..	99	82,335	60	4,950	159	87,285
1923-24..	102	82,826	60	5,249	162	88,074
1922-23..	113	87,545	66	4,949	179	92,494
1921-22..	107	84,996	68	5,520	175	90,515
1920-21..	112	78,050	93	7,324	205	85,374
1919-20..	110	78,140	96	7,554	206	85,694
1918-19..	110	74,020	93	7,399	203	81,419
1917-18..	112	65,690	86	7,355	198	73,045
1916-17..	94	59,500	62	5,852	156	65,352
1915-16..	90	58,560	69	5,247	159	64,807
1914-15..	99	55,380	78	7,240	177	62,620
1913-14..	98	53,836	66	6,500	164	60,336
1912-13..	102	61,635	80	7,865	182	69,500
1911-12..	104	53,760	87	8,380	191	61,140
1910-11..	108	54,626	103	9,245	211	63,870
1909-10..	107	51,725	118	10,640	225	62,375
1908-9...	104	49,935	135	11,740	239	61,675

OKLAHOMA

Figures covering year ending June 30, 1930:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
7	1,000 and over	9,200	1,764,230	8,093,145
7	500 to 1,000	4,510	974,855	4,476,138
10	200 to 500	3,050	456,167	2,048,360
5	100 to 200	600	47,358	221,981
10	Less than 100	550	19,700	90,700
39		17,910	3,262,310	14,929,324

Note: Nonreporting Oklahoma mills of 200 bbls and less capacity estimated on same basis of activity as reporting mills.

Year ending June 30, 1929:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
7	1,000 and over	9,200	1,608,323	7,336,384
7	500 to 1,000	4,510	829,303	3,784,025
11	200 to 500	3,350	241,444	1,109,722
5	100 to 200	600	38,000	174,100
13	Less than 100	650	22,800	105,200
43		18,310	2,739,870	12,509,431

Year ending June 30, 1928:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
7	1,000 and over	9,300	1,414,854	6,409,985
7	500 to 1,000	4,700	757,530	3,486,922
13	200 to 500	3,650	397,079	1,797,743
4	100 to 200	500	24,367	116,010
18	Less than 100	850	32,300	153,500
49		19,000	2,626,130	11,964,160

Year ending June 30, 1927:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
6	1,000 and over	8,305	1,681,907	7,583,865
8	500 to 1,000	4,900	1,126,292	5,126,058
13	200 to 500	3,350	452,772	2,054,385
3	100 to 200	350	25,486	119,604
20	Less than 100	885	72,195	320,380
50		17,790	3,358,651	15,204,292

Year ending June 30, 1926:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
6	1,000 and over	8,325	1,206,649	5,488,218
8	500 to 1,000	5,050	888,729	4,063,917
13	200 to 500	3,495	436,016	1,993,153
5	100 to 200	600	21,092	100,311
25	Less than 100	1,110	43,840	202,893
57		18,580	2,596,326	11,848,492

Year ending June 30, 1925:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
6	1,000 and over	8,285	1,551,305	6,980,477
7	500 to 1,000	4,700	741,249	3,377,363
12	200 to 500	3,355	386,558	1,765,484
6	100 to 200	750	67,239	282,051
28	Less than 100	1,202	71,541	295,700
59		18,292	2,807,892	12,691,075

Year ending June 30, 1924:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
6	1,000 and over	8,665	1,312,000	5,898,861
7	500 to 1,000	4,435	647,852	2,836,339
14	200 to 500	3,810	410,691	1,861,751
6	100 to 200	860	57,713	238,074
27	Less than 100	1,300	56,975	235,735
60		19,060	2,485,231	11,070,760

Year ending June 30, 1923:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
7	1,000 and over	9,455	1,256,289	5,799,626
5	600 to 1,000	3,125	418,316	1,916,222
16	200 to 500	4,205	449,751	2,036,989
9	100 to 200	1,275	105,231	479,278
33	Less than 100	1,530	46,015	209,922
69		19,590	2,276,602	10,442,037

PERCENTAGE OF CAPACITY OPERATED

Percentage of output to full capacity, based on 300 running days of mills of all sizes in Oklahoma, by years ending June 30:

Year	1,000 and over	500 to 1,000	200 to 500	100 to 200	Less than 100	Average
1930..	63.9	72.0	49.8	26.3	11.9	60.7
1929..	58.2	61.2	24.2	21.1	11.6	49.8
1928..	50.7	52.7	31.7	16.2	12.7	46.1
1927..	67.0	78.0	45.0	24.0	27.0	62.0
1926..	48.0	58.0	41.0	11.0	13.0	46.0
1925..	62.0	52.0	38.0	25.0	19.0	51.0
1924..	52.0	48.0	35.0	22.0	14.0	43.0
1923..	44.0	44.0	35.0	28.0	10.0	38.0
1922..	52.0	53.0	38.0	28.0	12.9	46.0
Av'ge	55.3	57.8	39.6	22.4	14.7	49.2

NEBRASKA

Figures covering year ending June 30, 1930:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	7,425	1,966,587	9,008,211
4	500 to 1,000	2,150	422,647	1,937,216
21	200 to 500	5,300	671,457	3,095,534
21	100 to 200	2,565	258,827	1,197,011
66	Less than 100	3,478	205,496	948,072
117		20,998	3,524,914	16,186,044

Year ending June 30, 1929:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	7,425	1,983,482	9,261,182
3	500 to 1,000	1,650	331,647	1,519,111
21	200 to 500	5,365	702,391	3,252,368
18	100 to 200	2,155	215,369	978,870
62	Less than 100	3,303	196,367	899,426
109		19,898	3,428,256	15,910,947

Note: Nonreporting Nebraska mills of 200 bbls and less capacity estimated on same basis of activity as reporting mills.

Year ending June 30, 1928:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
6	1,000 and over	9,250	2,214,441	9,698,030
4	500 to 1,000	2,200	497,045	2,281,405
15	200 to 500	4,110	569,183	1,789,027
19	100 to 200	2,375	235,610	1,074,281
67	Less than 100	3,444	210,085	971,073
111		21,379	3,646,364	15,814,416

Year ending June 30, 1927:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	8,550	1,944,685	8,946,601
4	500 to 1,000	2,450	647,914	2,960,554
16	200 to 500	4,025	473,748	2,202,600
23	100 to 200	2,801	308,856	1,674,127
82	Less than 100	4,231	299,001	1,367,337
129		22,057	3,674,203	17,150,219

Year ending June 30, 1926:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	8,000	1,610,569	7,045,652
4	500 to 1,000	2,400	686,405	2,699,294
17	200 to 500	4,216	433,531	1,986,553
24	100 to 200	2,865	197,671	913,595
91	Less than 100	4,674	321,338	1,508,584
141		22,154	3,047,514	14,153,148

Year ending June 30, 1925:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	7,350	1,716,199	7,851,662
4	500 to 1,000	2,400	591,457	2,654,534
19	200 to 500	4,975	430,930	2,007,128
23	100 to 200	2,775	264,626	1,233,433
96	Less than 100	4,840	428,866	1,947,400
147		22,340	3,461,078	15,824,167

Year ending June 30, 1924:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	8,950	1,583,405	7,257,975
5	500 to 1,000	2,800	501,074	2,249,235
14	200 to 500	3,625	307,305	1,399,176
31	100 to 200	3,680	367,248	1,641,962
104	Less than 100	5,232	430,994	1,973,296
159		24,287	3,180,026	14,519,644

Year ending June 30, 1923:

No. mills	Capacity rating, bbls	Daily capacity, bbls made, bbls	Flour made, bbls	Wheat ground, bus
5	1,000 and over	7,200	1,474,569	6,721,331
5	500 to 1,000	2,850	488,261	2,232,207
18	200 to 500	4,520	465,674	2,067,698
28	100 to 200	3,290	235,922	1,076,878
112	Less than 100	5,533	305,285	1,412,637
168		23,393	2,969,711	13,509,651

PERCENTAGE OF CAPACITY OPERATED

Percentage of output to full capacity, based on 300 running days of mills of all sizes in Nebraska, by years ending June 30:

Year	1,000 and over	500 to 1,000	200 to 500	100 to 200	Less than 100	Average
1930..	89.0	66.9	43.6	33.3	19.7	65.5
1929..	88.2	65.5	41.5	32.7	19.6	65.9
1928..	79.8	76.3	31.5	33.3	20.3	65.3
1927..	76.0	88.0	39.0	38.0	23.0	65.0
1926..	62.0	81.0	34.0	23.0	22.0	45.0
1925..	79.0	82.0	28.0	31.0	29.0	51.0
1924..	58.0	59.0	28.0	32.0	21.0	43.0
1923..	67.0	57.0	34.0	23.0	18.0	42.0
1922..	53.0	56.0	36.0	27.0	23.0	40.7
Av'go	72.3	70.1	39.1	30.5	21.7	49.5

PRODUCTION AT CENTERS

The following tables show the yearly capacity, flour production, and percentage of activity for the crop year ending June 30.

KANSAS CITY

	Yearly capacity	Flour made	Pct. of activity
1930.....	9,436,000	7,819,000	83
1929.....	9,436,000	7,908,865	83.8
1928.....	9,612,000	7,450,739	77.5
1927.....	8,985,000	7,217,840	80
1926.....	7,878,000	5,455,430	69
1925.....	7,727,400	5,783,214	74.8
1924.....	7,786,800	5,406,800	69
1923.....	6,703,800	5,080,144	76

WICHITA

1930.....	3,120,000	1,871,000	59
1929.....	3,120,000	1,940,394	62.1
1928.....	3,120,000	1,766,196	56.6
1927.....	3,120,000	2,268,344	70
1926.....	3,327,300	1,566,694	47
1925.....	3,466,980	2,034,740	58
1924.....	3,288,980	1,904,811	57
1923.....	3,420,000	2,099,776	61

SALINA

1930.....	2,400,000	1,931,000	80
1929.....	2,400,000	1,985,926	82.7
1928.....	2,400,000	1,889,481	78.7
1927.....	2,400,000	1,605,045	61
1926.....	2,175,600	1,298,624	59
1925.....	2,235,000	1,262,705	56
1924.....	1,800,000	998,842	55
1923.....	2,280,000	1,306,351	55

HUTCHINSON

1929.....	1,530,000	1,152,330	75.3
1928.....	1,530,000	920,597	60.1
1927.....	1,530,000	1,246,151	81
1926.....	1,530,000	944,092	61.7
1925.....	1,560,000	1,096,043	70
1924.....	1,560,000	991,938	63
1923.....	1,602,500	1,263,876	78

TOPEKA

1929.....	1,245,000	623,403	42
1928.....	1,590,000	509,397	32.1
1927.....	1,666,000	651,945	39
1926.....	1,575,000	392,311	25
1925.....	1,245,000	613,629	50
1924.....	1,327,500	652,260	49
1923.....	1,646,500	873,870	56

ATCHISON

1930.....	1,575,000	1,511,000	96
1929.....	1,575,000	1,863,143	118.2
1928.....	1,575,000	1,381,527	87.7
1927.....	1,440,000	1,364,247	94
1926.....	1,485,000	1,182,971	79
1925.....	1,185,000	1,176,860	99
1924.....	1,395,000	1,048,311	75
1923.....	945,000	729,703	77

OMAHA

1930.....	1,267,500	1,228,000	97
1929.....	1,267,500	1,166,531	91.2
1928.....	1,260,000	1,221,783	96.9
1927.....	1,365,000	1,169,381	86
1926.....	1,419,600	1,048,827	73
1925.....	1,455,000	1,043,544	71
1924.....	1,455,000	1,042,602	71
1923.....	1,080,090	956,466	88

ST. JOSEPH

1930.....	2,370,000	1,451,000	61
1929.....	2,370,000	1,599,417	67.5
1928.....	2,460,000	1,540,559	62.6
1927.....	2,460,000	1,991,506	81
1926.....	2,404,800	1,710,391	69
1925.....	2,462,000	1,921,012	78

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HARD SPRING WHEAT
& RYE FLOURS

WINONA, MINNESOTA

DAILY CAPACITY
FIVE THOUSAND BARRELS

Southwest—Weekly Rate of Mill Activity

Percentage of actual flour output, as related to full capacity, of 65 mills in the Southwest outside of Kansas City terminal, by weeks in 1930, with comparisons:

	Pct. of activity						
	1930	1929	1928	1927	1926	1925	1924
Jan. 4	57	62	52	59	45	55	53
Jan. 11	55	65	53	69	47	64	56
Jan. 18	60	69	61	[illegible]	53	69	57
Jan. 25	57	68	57	69	55	66	64
Feb. 1	57	72	[illegible]	68	57	69	62
Feb. 8	59	69	53	67	50	66	55
Feb. 15	62	79	50	67	45	66	59
Feb. 22	60	69	53	61	49	61	58
March 1	57	67	51	63	52	57	57
March 8	51	67	55	65	50	53	59
March 15	58	68	51	63	51	50	60
March 22	56	69	50	61	51	53	59
March 29	57	62	50	62	50	48	56
April 5	57	59	55	63	47	52	55
April 12	68	62	57	61	49	47	54
April 19	57	62	63	56	49	45	54
April 26	57	61	51	63	48	[illegible]	53
May 3	62	62	63	[illegible]	51	41	51
May 10	57	63	62	60	50	38	51
May 17	59	61	59	62	49	42	49
May 24	61	74	58	62	46	[illegible]	45
May 31	60	59	48	51	47	[illegible]	51
June 7	60	59	53	56	[illegible]	46	52
June 14	57	59	52	56	61	51	51
June 21	58	55	48	60	56	51	53
June 28	65	58	49	61	65	55	65
July 5	58	52	46	61	78	56	51
July 12	58	55	51	[illegible]	61	[illegible]	50
July 19	65	57	62	[illegible]	80	59	66
July 26	66	61	69	67	88	65	75
Aug. 2	65	67	71	60	90	62	72
Aug. 9	67	66	69	65	90	60	68
Aug. 16	66	67	[illegible]	62	89	[illegible]	77
Aug. 23	69	69	71	60	91	55	79
Aug. 30	67	63	76	65	91	55	[illegible]
Sept. 6	69	59	71	63	86	54	[illegible]
Sept. 13	70	63	73	63	82	51	82
Sept. 20	70	69	[illegible]	63	86	56	87
Sept. 27	74	72	79	59	[illegible]	55	89
Oct. 4	72	70	78	[illegible]	79	56	[illegible]
Oct. 11	68	[illegible]	78	64	80	51	81
Oct. 18	66	69	75	60	73	53	81
Oct. 25	[illegible]	70	74	59	79	49	83
Nov. 1	65	66	79	58	80	53	79
Nov. 8	64	[illegible]	74	55	71	49	78
Nov. 15	66	58	69	51	[illegible]	[illegible]	76
Nov. 22	59	58	75	55	[illegible]	[illegible]	73
Nov. 29	62	56	69	52	[illegible]	48	63
Dec. 6	61	55	69	57	[illegible]	48	68
Dec. 13	62	61	68	56	70	50	67
Dec. 20	59	57	71	46	63	59	64
Dec. 27	54	51	57	49	57	44	55

Omaha—Flour Output

Flour output of Omaha, Neb., mills, by calendar years, in barrels:

1930	1,280,691	1925	1,118,153
1929	1,151,761	1924	1,103,078
1928	1,267,601	1923	1,013,606
1927	1,160,764	1922	947,993
1926	1,107,650	1921	823,056

Kansas City—Flour Mills

Flour mills at Kansas City, with capacity in barrels per day:

Ismert-Hincke Milling Co.	2,600
Kansas Flour Mills Corporation (two mills)	4,850
Midland Flour Milling Co.	1,800
Monarch Milling Co.	5,500
Moore-Lowry Flour Mills Co	1,500
Rodney Milling Co.	1,500
Southwestern Milling Co., Inc.	6,000
Washburn Crosby Co.	6,500
Total	30,250
Waggoner-Gates Milling Co. (Independence)	1,200
Grand total	31,150

Kansas City—Flour Output

Total flour output of Kansas City, by calendar years, in barrels, as reported to the Board of Trade:

1930	7,755,135	1916	3,116,332
1929	7,986,450	1915	2,866,460
1928	7,235,498	1914	2,376,840
1927	7,381,501	1913	2,294,617
1926	6,179,234	1912	2,080,268
1925	5,410,714	1911	1,822,257
1924	5,218,021	1910	2,226,264
1923	4,886,775	1909	2,427,376
1922	4,707,964	1908	2,577,577
1921	3,965,769	1907	1,974,949
1920	3,697,246	1906	1,989,000
1919	3,628,151	1905	2,053,000
1918	2,469,777	1904	1,595,100
1917	3,365,200	1903	1,535,000

SOUTHWEST FLOUR OUTPUT BY MONTHS

The following tables show the production of flour by months at principal milling centers of the Southwest and by group of approximately 62 leading mills of Nebraska, Kansas and Oklahoma which report regularly to the Kansas City office of The Northwestern Miller.

Beneath the reports by months appears a consolidated statement covering the full year with amount of increase or decrease.

FLOUR OUTPUT FOR 1930

Month—	Southwest	Kansas City	Salina	Wichita	St. Joseph	Atchison	Omaha
January	751,725	547,420	127,115	136,998	120,868	[illegible]	98,767
February	776,077	572,811	133,418	171,868	57,101	[illegible]	81,542
March	928,165	700,178	170,659	171,138	137,736	147,859	[illegible]
April	712,876	600,200	128,382	139,093	[illegible]	118,916	99,151
May	963,668	758,502	151,118	186,731	123,129	[illegible]	[illegible]
June	772,777	597,599	118,139	125,736	87,976	119,290	[illegible]
July	802,912	563,291	156,281	158,977	75,917	118,475	99,511
August	1,080,727	817,070	153,452	199,904	75,217	[illegible]	[illegible]
September	917,248	648,696	170,401	149,107	32,217	[illegible]	[illegible]
October	903,497	637,352	167,715	139,126	31,019	[illegible]	[illegible]
November	1,030,166	719,078	207,091	169,944	33,065	159,173	[illegible]
December	767,482	562,638	162,159	[illegible]	22,710	115,318	[illegible]
Totals	10,137,318	7,755,135	1,909,836	1,567,795	877,095	[illegible]	[illegible]

FLOUR OUTPUT FOR 1929

Month—	Southwest	Kansas City	Salina	Wichita	St. Joseph	Atchison	Omaha
January	836,733	568,890	158,822	149,067	121,585	121,072	94,939
February	927,904	612,599	160,109	152,457	111,468	118,531	94,777
March	1,087,647	725,532	199,218	157,715	119,992	129,054	97,170
April	804,498	547,130	146,835	126,157	101,075	109,516	78,011
May	862,144	607,609	149,992	148,751	96,320	128,153	84,551
June	952,926	819,276	155,183	198,039	132,202	147,337	98,745
July	744,837	585,725	137,679	167,237	128,901	100,903	75,747
August	1,089,318	832,384	226,437	177,007	127,742	[illegible]	126,672
September	862,005	669,966	155,616	165,312	138,364	119,934	95,391
October	986,086	628,915	173,086	144,303	192,169	121,357	95,579
November	984,106	748,944	195,488	158,824	140,385	140,671	117,126
December	736,185	551,071	131,709	[illegible]	117,159	99,101	88,942
Totals	10,571,389	7,928,031	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

COMPARISON OF FLOUR OUTPUT, 1929 AND 1930

	Southwest	Kansas City	Salina	Wichita	St. Joseph	Atchison	Omaha
1930	10,437,318	7,755,135	1,909,836	1,567,795	877,095	[illegible]	[illegible]
1929	10,874,389	7,928,034	[illegible]	1,574,737	[illegible]	[illegible]	[illegible]
Decrease	437,071	172,899	82,259	6,952	[illegible]	*[illegible]	*[illegible]

*Increase.

Kansas City—Weekly Rate of Mill Activity

Percentage of actual flour output, as related to full capacity, of a group of nine Kansas City mills, by weeks in 1930, with comparisons:

	Pct. of activity						
	1930	1929	1928	1927	1926	1925	1924
Jan. 4	[illegible]	[illegible]	83	75	71	[illegible]	[illegible]
Jan. 11	[illegible]	[illegible]	83	73	[illegible]	[illegible]	[illegible]
Jan. 18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Jan. 25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Feb. 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71
Feb. 8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Feb. 15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Feb. 22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
March 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
March 8	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
March 15	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
March 22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
March 29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
April 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	67
April 12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
April 19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
April 26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
May 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
May 10	[illegible]	[illegible]	[illegible]	72	[illegible]	[illegible]	[illegible]
May 17	[illegible]	[illegible]	[illegible]	78	[illegible]	[illegible]	[illegible]
May 24	[illegible]	[illegible]	[illegible]	73	[illegible]	[illegible]	[illegible]
May 31	[illegible]	[illegible]	[illegible]	71	[illegible]	[illegible]	[illegible]
June 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
June 14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
June 21	[illegible]	[illegible]	[illegible]	[illegible]	49	72	[illegible]
June 28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	75	[illegible]
July 5	[illegible]	[illegible]	[illegible]	67	[illegible]	[illegible]	[illegible]
July 12	[illegible]	[illegible]	[illegible]	73	[illegible]	[illegible]	[illegible]
July 19	81	[illegible]	[illegible]	67	[illegible]	[illegible]	72
July 26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71
Aug. 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Aug. 9	85	87	77	[illegible]	[illegible]	[illegible]	[illegible]
Aug. 16	[illegible]	[illegible]	[illegible]	69	87	[illegible]	79
Aug. 23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Aug. 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sept. 6	[illegible]	[illegible]	[illegible]	[illegible]	91	79	[illegible]
Sept. 13	[illegible]	[illegible]	[illegible]	[illegible]	79	[illegible]	[illegible]
Sept. 20	[illegible]	[illegible]	[illegible]	93	[illegible]	[illegible]	[illegible]
Sept. 27	[illegible]	90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oct. 4	[illegible]	[illegible]	[illegible]	[illegible]	80	[illegible]	[illegible]
Oct. 11	82	81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oct. 18	81	[illegible]	[illegible]	[illegible]	[illegible]	74	[illegible]
Oct. 25	90	[illegible]	81	92	[illegible]	[illegible]	[illegible]
Nov. 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nov. 8	[illegible]	77	77	[illegible]	[illegible]	[illegible]	[illegible]
Nov. 15	81	81	[illegible]	79	[illegible]	[illegible]	[illegible]
Nov. 22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nov. 29	[illegible]	[illegible]	[illegible]	91	[illegible]	[illegible]	[illegible]
Dec. 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dec. 13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dec. 20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dec. 27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Salina—Flour Output

Output of wheat flour by mills at Salina, Kansas, in barrels, by calendar years:

1930	[illegible]	1925	[illegible]
1929	[illegible]	1924	1,127,663
1928	1,935,823	1923	974,935
1927	1,622,409	1922	1,734,128
1926	1,458,774	1921	1,672,477

Southwest—Rate of Mill Activity, by Years

Percentage of actual flour output, as related to full capacity of groups of mills in the accompanying table, by half years and full years:

	Kansas City	Interior
First half 1930	77.0	58.6
Last half 1930	[illegible]	[illegible]
Average 1930	[illegible]	[illegible]
First half 1929	75.3	[illegible]
Last half 1929	80.5	[illegible]
Average, 1929	77.9	[illegible]
First half 1928	69.6	[illegible]
Last half 1928	[illegible]	70.2
Average, 1928	73.2	62.2
First half 1927	77.6	62.4
Last half 1927	79.0	[illegible]
Average, 1927	[illegible]	[illegible]
First half 1926	[illegible]	54.0
Last half 1926	[illegible]	77.0
Average, 1926	72.5	65.5
First half 1925	68.8	53.1
Last half 1925	[illegible]	53.5
Average, 1925	[illegible]	53.3
First half 1924	62.0	55.0
Last half 1924	83.0	73.0
Average, 1924	[illegible]	64.0
First half 1923	[illegible]	51.0
Last half 1923	[illegible]	63.0
Average, 1923	[illegible]	57.0
First half 1922	76.6	55.9
Last half 1922	80.7	70.5
Average, 1922	78.6	63.2
First half 1921	61.7	48.6
Last half 1921	84.4	75.6
Average, 1921	73.0	62.1
First half 1920	67.0	51.8
Last half 1920	64.5	55.1
Average, 1920	65.7	58.2
First half 1919	64.4	52.6
Last half 1919	81.0	75.5
Average, 1919	72.6	63.9
First half 1918	41.5	[illegible]
Last half 1918	74.4	72.5
Average, 1918	57.9	60.8
First half 1917	82.0	[illegible]
Last half 1917	87.4	77.4
Average, 1917	84.7	70.2
First half 1916	81.5	68.1
Last half 1916	88.2	86.4
Average, 1916	84.8	77.2
First half 1915	68.1	[illegible]
Last half 1915	79.0	71.0
Average, 1915	72.6	70.0
First half 1914	62.2	[illegible]
Last half 1914	78.6	86.8
Average, 1914	70.4	76.0
First half 1913	54.8	65.0
Last half 1913	[illegible]	73.5
Average, 1913	64.6	69.3
First half 1912	45.0	54.5
Last half 1912	[illegible]	75.0
Average, 1912	[illegible]	[illegible]
First half 1911	37.0	54.2
Last half 1911	60.0	67.0
Average, 1911	48.0	60.6

CENSUS REPORT ON FLOUR AND FEED OUTPUT

The Department of Commerce announces statistics on wheat ground and wheat milling products by months. The figures for November are revised to include reports received since the preliminary bulletin for that month was issued. These returns include only mills which are now manufacturing at the rate of 5,000 or more barrels of flour annually.

The 1,022 mills reporting in December (86 of which were idle) produced 92.7 per cent of the total wheat flour reported at the biennial census of manufactures, 1925. The 1,022 mills reporting in November produced 92.7 per cent of the flour reported in 1925.

The wheat ground averaged 276.2 lbs per barrel of flour in December, 277.2 in November, 276.9 in October, 277.6 in September, 277.2 in August, 277.1 in July, 277.2 in June, 276.1 in May, 276.8 in April, 276.6 in March, 276.7 in February, and 276.4 in January, 1930.

The offal reported amounted to 84.6 lbs per barrel of flour in December, 83 in November, 83.2 in October, 83.2 in September, 82.6 in August, 81.8 in July, 82.1 in June, 81.5 in May, 81.9 in April, 81.7 in March, 81.7 in February, and 81.3 in January, 1930.

	Mills reporting	Wheat ground, bus	Production— Wheat flour, bbls	Wheat offal, lbs	Daily wheat flour capacity, bbls	Per ct. of capacity operated
1930—						
December	[illegible]	41,014,892	8,910,539	753,878,888	641,465	53.4
November	[illegible]	42,428,116	9,184,270	762,107,584	641,422	59.7
October	[illegible]	49,913,755	10,816,544	899,530,079	642,343	62.4
September	[illegible]	[illegible]	10,673,905	888,575,982	642,371	66.5
August	[illegible]	47,653,518	10,312,880	851,404,126	646,054	61.5
July	1,030	43,721,200	9,466,217	774,252,407	644,594	56.5
June	1,035	40,136,507	8,086,835	713,578,946	646,554	53.8
May	1,037	41,329,104	8,980,991	732,152,865	647,399	52.4
April	1,042	41,853,744	9,070,975	742,542,375	656,959	53.1
March	1,045	43,082,758	9,346,948	763,376,203	658,060	54.0
February	1,045	[illegible]	8,783,253	717,926,378	656,207	58.2
January	[illegible]	[illegible]	9,509,874	772,725,548	653,890	55.9
1929—						
December	1,063	41,059,236	8,905,036	728,293,359	659,040	54.0
November	1,070	43,912,610	9,537,762	776,745,806	659,360	57.9
October	1,072	50,444,803	10,968,430	896,004,016	660,380	61.5
September	1,072	47,583,110	10,372,467	831,522,566	659,451	65.5
August	1,071	50,725,188	11,068,341	882,930,900	660,201	62.0
July	1,059	42,895,185	9,237,089	746,627,883	658,091	54.0
June	1,060	40,832,035	[illegible]	711,356,508	657,658	54.2
May	1,070	42,737,833	[illegible]	742,133,389	658,004	54.6
April	1,073	39,474,999	[illegible]	683,046,253	655,509	50.7
March	1,080	42,004,429	[illegible]	725,847,694	657,251	53.9
February	1,080	41,292,093	9,026,225	716,895,588	657,531	59.7
January	1,085	45,766,741	10,013,996	792,580,295	659,976	58.4

STATEMENT FOR 855 MILLS WHICH REPORTED EACH MONTH*

1930—	Wheat ground, bus	Production— Wheat flour, bbls	Wheat offal, lbs	Average lbs wheat per bbl	Average lbs offal per bbl of flour	Daily wheat flour capacity, bbls	Per cent of capacity operated
December	[illegible]	8,637,295	731,324,201	276.1	84.7	607,627	54.7
November	41,154,287	8,913,578	736,956,676	277.0	82.9	607,814	61.1
October	48,488,802	10,509,100	874,117,011	276.8	83.2	608,230	64.0
September	[illegible]	10,362,505	863,156,917	277.5	83.3	608,208	66.2
August	[illegible]	9,903,997	826,337,036	277.2	82.6	610,776	62.9
July	42,550,426	9,214,799	753,584,381	277.0	81.8	610,691	58.0
June	[illegible]	8,432,486	691,856,154	277.2	82.0	611,601	55.2
May	40,252,273	8,753,586	713,192,760	275.9	81.5	613,056	54.9
April	40,748,200	8,832,027	723,089,656	276.8	81.9	622,901	54.5
March	41,916,012	9,095,335	742,603,773	276.5	81.6	622,802	56.2
February	39,398,680	8,544,964	698,358,643	276.6	81.7	621,959	59.7
January	42,731,382	9,276,111	753,954,828	276.4	81.3	619,297	57.6

*These mills produced approximately 89.3 per cent of the total wheat flour reported at the biennial census of manufactures in 1925 and 91.8 of the flour produced in 1927.

St. Louis—Flour Output and Movement

Receipts and shipments of flour at St. Louis and flour manufactured, by calendar years, in barrels:

Year	Receipts	Made	Shipments
1930	....	2,061,800	....
1929	....	1,908,173	....
1928	....	1,642,900	....
1927	....	1,404,000	....
1926	....	1,440,568	....
1925*	....	1,245,946	....
1924	5,080,000	1,276,624	6,097,700
1923	[illegible]	1,758,077	6,132,505
1922	[illegible]	1,518,042	6,080,410
1921	[illegible]	1,505,765	6,013,820
1920	[illegible]	1,441,183	4,794,200
1919	4,284,780	1,798,298	5,320,660
1918	2,965,320	1,898,283	3,951,120
1917	3,893,922	1,619,256	5,412,710
1916	[illegible]	1,750,686	5,288,930
1915	[illegible]	1,678,463	4,905,490
1914	[illegible]	1,579,079	4,309,645
1913	[illegible]	1,036,761	3,890,940
1912	3,032,330	1,030,704	3,079,570
1911	2,683,775	1,055,416	2,842,530
1910	2,678,040	969,545	2,888,448
1909	[illegible]	926,029	3,004,210
1908	[illegible]	965,832	3,192,790
1907	[illegible]	1,189,949	3,201,341
1906	[illegible]	1,010,120	2,677,945
1905	[illegible]	1,285,537	3,472,609
1904	[illegible]	1,102,980	3,306,198
1903	2,340,695	1,112,316	3,127,096
1902	2,217,685	1,322,530	2,684,451
1901	3,170,548	1,505,234	2,961,563
1900	[illegible]	1,346,069	2,535,206
1899	[illegible]	1,166,439	2,027,031
1898	[illegible]	1,054,876	1,584,112
1897	[illegible]	1,080,916	1,618,633
1896	[illegible]	1,333,986	1,946,031
1895	1,013,344	1,740,026	2,146,659
1894	1,261,309	1,656,645	2,168,358
1893	[illegible]	1,669,048	2,044,727
1892	[illegible]	1,623,371	2,313,738
1891	[illegible]	1,748,190	2,767,906
1890	[illegible]	1,872,005	2,880,324
1889	1,168,603	2,066,442	2,859,389
1888	887,173	2,016,619	2,682,405
1887	1,049,864	1,985,717	2,594,881

*Statistics relating to receipts and shipments were not compiled after 1924.

St. Louis—Flour Output of "Outside" Mills

Flour output of "outside" mills, controlled by St. Louis companies, in barrels (000's omitted):

1930	2,017	1925	2,085
1929	2,411	1924	1,815
1928	2,333	1923	1,942
1927	2,362	1922	2,190
1926	2,396	1921	1,980

St. Joseph—Flour and Feed Output

Output of wheat flour, corn flour and feed by the mills at St. Joseph, Mo., by calendar years:

	Flour, bbls— Wheat	Corn	Feed, tons— Wheat	Corn
1930	844,176	352,000	38,282	13,000
1929	1,771,357	410,000	61,428	18,000
1928	1,691,277	424,000	66,117	14,500
1927	1,870,160	418,242	67,157	17,918
1926	1,928,528	287,761	94,027	17,518
1925	1,732,973	268,742	66,951	17,322
1924	1,836,900	288,894	69,572	16,576
1923	1,365,226	[illegible]	52,463	10,732
1922	1,602,903	[illegible]	60,639	12,742
1921	1,391,112	138,349	51,961	.....

Output of feed mills, showing bushels of grain ground, tons of feed manufactured and tons shipped, by calendar years:

	Bus ground	Feed, tons— Mnfd.	Shipped
1930	2,115,000	112,150	117,364
1929	3,115,000	129,129	147,374
1928	2,678,511	142,587	163,172
1927	2,250,000	122,067	138,720
1926	2,630,000	103,772	119,980
1925	2,795,000	119,058	147,658
1924	3,125,000	146,320	170,620
1923	3,410,000	152,281	175,931
1922	2,602,860	131,847	166,047
1921	1,430,000	101,048	135,848

St. Joseph—Flour Mills

St. Joseph, Mo., wheat flour mills, with daily capacities, in barrels:

Larabee Flour Mills Co.	6,000
Aunt Jemima Mills Branch (Quaker Oats Co.)	1,800
Hauck Milling Co.	200
Total	8,000

St. Joseph (Mo.) Feed Mills

Name—	Capacity tons per day
Quaker Oats Co.	1,080
Grain Belt Mills Co.	1,000
Schreiber Milling & Grain Co.	800
Excello Feed Milling Co.	500
Famo Feed Milling Co.	200
Fogarty-Kneib & Co.	60

Salina—Flour Mills

Flour mills at Salina, with capacity in barrels per day:

*H. D. Lee Flour Mills Co.	2,000
Robinson Milling Co.	1,400
Shellabarger Mill & Elevator Co.	2,000
Weber Flour Mills Co.	1,500
Western Star Mill Co.	1,100
	8,000

*Also 500-bbl mill at Ellsworth, Kansas

Omaha—Flour Mills

Omaha, Neb., flour mills, with daily capacities, in barrels:

Omaha Flour Mills Co.	1,600
Maney Milling Co.	2,000
Nebraska Consolidated Mills	1,000
Total	4,600

Wichita—Flour Mills

Flour mills at Wichita, with capacity in barrels per day:

Kansas Milling Co.	3,500
Red Star Milling Co.	4,400
Wichita Flour Mills Co.	2,500
Total	10,400

Wichita—Flour Output

Output of wheat flour by mills at Wichita, Kansas, in barrels, by calendar years:

1930	[illegible]	1925	1,624,423
1929	[illegible]	1924	2,058,624
1928	1,820,537	1923	1,864,521
1927	1,992,650	1922	1,917,028
1926	2,025,888		

St. Louis—"Outside" Flour Mill Capacity

"Outside" flour mills owned or controlled by St. Louis interests, or the output of which is sold from St. Louis, showing the daily capacity:

	Bbls
Valier & Spies Milling Corporation, Marine, Ill.	500
Valier & Spies Milling Corporation, St. Jacob, Ill.	600
Meyer Milling Co., Springfield, Mo.	2,050
Meyer Milling Co., Nashville, Ill.	800
Sparks Milling Co., Terre Haute, Ind.	900
Sparks Milling Co., Alton, Ill.	2,100
Stanard-Tilton Milling Co., Alton, Ill.	2,800
Stanard-Tilton Milling Co., Dallas, Texas	2,400
Bernet, Craft & Kauffman Milling Co., Mt. Carmel, Ill.	2,100
J. F. Imbs Milling Co., Imbs Mill, Belleville, Ill.	2,100
Total, bbls	16,350

Milling in Bond Activity

Wheat withdrawn for milling in bond, exports of flour milled in bond, and millfeed produced by milling in bond activities, as reported in the Department of Commerce, by crop years ended June 30 (000's omitted):

	Wheat withdrawn bus	Flour exported bbls	Millfeed produced tons	Percentage of total exports
1929-30	12,881	2,696	122	[illegible]
1928-29	19,877	4,262	179	32
1927-28	14,526	3,004	138	[illegible]
1926-27	12,560	2,746	110	20
1925-26	*13,421	2,922	†..	30
1924-25	*5,814	1,264	†..	9
1923-24	*13,905	3,023	†..	17
1922-23	*9,281	2,018	†..	13
1921-22	*6,173	1,342	†..	[illegible]

*Wheat imported for milling in bond. †Not reported.

Following is the total of flour exports made from wheat milled in bond, by calendar years, in barrels:

1930	3,927,000	1925	2,311,000
1929	3,018,000	1924	2,107,000
1928	3,932,000	1923	2,220,000
1927	2,467,000	1922	2,317,000
1926	3,041,000		

Cleveland—Flour Output

Flour output of Cleveland mills, by calendar years, in barrels:

1930	279,342	1921	268,000
1929	270,139	1920	275,000
1928	314,650	1919	310,900
1927	298,902	1918	253,000
1926	292,579	1917	268,000
1925	252,000	1916	342,000
1924	248,020	1915	278,736
1923	269,000	1914	367,000
1922	247,000	1913	326,000

Southeast—Flour Output

Output of wheat flour by Nashville and southeastern mills reporting to the Southeastern Millers' Association:

	Capacity	Output	Per cent
1930	5,886,330	3,927,398	66.7
1929	6,545,820	4,115,560	62.8
1928	7,310,520	4,421,369	60.4
1927	7,602,420	4,926,494	64.8
1926	8,217,340	4,896,846	59.4
1925	7,972,020	5,074,065	63.6
1924	9,211,610	5,433,078	58.9
1923	19,868,040	11,291,476	56.8

St. Louis-East St. Louis—Flour Mill Capacity

St. Louis-East St. Louis flour mills, with daily capacity:

	Bbls
Saxony Mills	1,300
Ralston Purina Co.	300
Plant Flour Mills Co.	3,500
Annan-Burg Grain & Milling Co. (blender)	1,000
Valier & Spies Milling Corporation	3,200
Eberle-Albrecht Flour Co. (blender)	1,800
Hall Milling Co.	3,000
Hezel Milling Co.	600
Baur Flour Mills Co.	500
Total	15,200

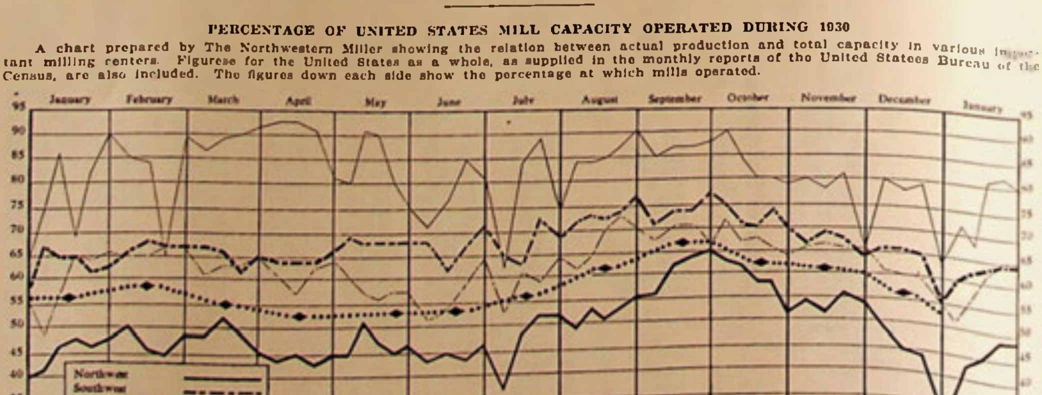
Evansville—Flour Mills

Flour mills of Evansville, Ind., with daily capacities, in barrels:

Igleheart Bros., Inc.	1,200
Brose & Arnold	350
Charles Nunn & Sons Milling Co.	[illegible]
Phoenix Flour Mill (owned by Igleheart Bros., Inc.)	[illegible]
Sunnyside Flour Mills	[illegible]
Total	3,150

PERCENTAGE OF UNITED STATES MILL CAPACITY OPERATED DURING 1930

A chart prepared by The Northwestern Miller showing the relation between actual production and total capacity in various important milling centers. Figurese for the United States as a whole, as supplied in the monthly reports of the United Statees Bureau of the Census, are also included. The figures down each side show the percentage at which mills operated.



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Flour Output—Crop Years

A table compiled from figures supplied by Bureau of Census, showing the flour and feed output of United States mills reporting by crop years ending June 30:

FLOUR OUTPUT (BBLS)

State—	1930	1929	1928
Minnesota..	18,875,545	20,710,923	21,663,434
Kansas ...	17,006,060	18,006,514	16,363,916
New York.	13,334,773	13,173,710	[illegible]
Missouri ..	10,341,279	10,242,451	[illegible]
Washington	4,922,899	5,460,636	5,027,810
Texas	5,568,479	4,940,771	4,669,672
Illinois ...	4,710,362	4,303,319	4,553,782
Ohio	3,968,020	3,540,766	3,675,854
Nebraska .	3,074,823	3,221,169	[illegible]
Oklahoma.	4,271,302	3,470,415	[illegible]
Indiana ..	2,786,224	2,549,140	3,221,333
Oregon ...	2,892,408	3,087,434	2,303,347
California..	1,959,535	2,067,781	[illegible]
Montana ..	1,819,865	1,824,827	[illegible]
Michigan..	1,752,166	1,768,696	1,910,584
Iowa	[illegible]	1,869,230	1,728,542
Colorado ..	[illegible]	1,727,773	1,639,866
Tennessee..	1,747,564	1,707,818	1,707,085
Utah	1,593,469	1,378,439	1,236,270
N. Dakota.	1,194,101	1,295,640	1,304,385
Kentucky..	1,462,279	1,347,887	1,389,422
N. Carolina	1,146,363	1,246,288	1,231,984
Pennsylv'ia	1,414,673	1,305,370	1,324,494
Wisconsin..	1,170,039	1,267,122	1,076,593
Virginia ..	1,055,141	986,559	1,021,897
Idaho	721,606	866,109	[illegible]
Maryland..	659,471	523,220	[illegible]
S. Dakota.	168,049	134,524	[illegible]
All other*.	1,276,840	1,197,771	[illegible]
U. S.....	114,557,861	115,292,522	111,227,457

FEED OUTPUT (1,000 LBS)

State—	1930	[illegible]	1928
Minnesota ...	1,594,051	1,708,425	1,824,920
Kansas	1,307,543	1,384,768	1,285,352
New York ...	1,087,911	1,060,919	1,040,648
Missouri	836,709	804,755	757,235
Washington ..	357,299	[illegible]	363,022
Texas	446,090	[illegible]	377,279
Illinois	370,900	334,316	362,052
Ohio	304,551	260,572	279,291
Nebraska	261,623	257,258	259,715
Oklahoma ...	350,923	270,215	192,289
Indiana	276,906	246,895	307,779
Oregon	204,168	220,431	163,157
California	153,330	159,986	163,103
Montana	131,047	129,900	146,094
Michigan	168,492	170,043	165,795
Iowa	153,575	[illegible]	146,517
Colorado	132,978	[illegible]	122,659
Tennessee	117,928	138,299	139,802
Utah	118,947	101,537	98,004
North Dakota	96,860	[illegible]	106,083
Kentucky	118,295	[illegible]	[illegible]
No. Carolina..	94,823	103,437	[illegible]
Pennsylvania..	117,258	107,485	108,975
Wisconsin ...	95,582	101,471	85,734
Virginia	85,805	80,325	80,919
Idaho	54,222	65,514	59,001
Maryland	51,815	[illegible]	36,368
South Dakota.	14,635	[illegible]	24,551
All other* ...	100,019	95,244	95,352
U. S.	9,294,290	9,128,555	9,006,608

*Includes Arizona, Arkansas, Delaware, District of Columbia, Georgia, New Hampshire, New Jersey, New Mexico, South Carolina, West Virginia and Wyoming.

Tacoma—Flour Mills

Tacoma, Wash., flour mills and daily capacities, in barrels:

Tacoma Grain Co. (controlled by the Centennial Mill Co., of Seattle)....	4,500
Sperry Flour Co.*....................	3,000
The Puget Sound Flouring Mills Co. (controlled by Sperry Flour Co., San Francisco)*	2,000
Dennett Milling Co.	120
Total	9,620

*Unit of General Mills, Inc., Minneapolis.

FLOUR OUTPUT AT CENTERS

Wheat flour output of mills which reported to The Northwestern Miller, at leading centers, by calendar years, in barrels (000's omitted):

	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921
Minneapolis	10,797	10,797	12,244	11,540	11,793	12,060	11,679	13,488	15,643	14,872
Buffalo	12,270	10,133	10,060	10,032	9,672	[illegible]	6,989	6,463	[illegible]	6,693
Kansas City	7,755	7,986	7,235	7,382	6,179	5,411	5,218	4,887	[illegible]	3,966
St. Louis	2,052	1,968	1,643	1,404	1,441	1,246	1,275	1,757	[illegible]	1,506
Chicago	1,635	1,528	1,765	1,851	1,867	1,781	1,858	1,342	[illegible]	820
Duluth	1,140	1,152	1,101	894	916	1,015	937	1,016	1,004	769
Omaha	[illegible]	[illegible]	1,268	1,161	1,108	[illegible]	1,103	1,014	948	823
St. Paul	[illegible]	384	436	520	576	[illegible]	505	672	533	499
Indianapolis	619	553	430	...	391	440	516	499	472	358
Cleveland	279	270	315	299	293	252	248	269	247	268
St. Joseph	877	1,526	1,691	1,870	1,929	1,733	1,837	1,365	1,603	1,391
Tacoma	1,874	2,249	2,021	1,723	1,453	1,159	1,290	1,553	1,456	1,491
Seattle	1,282	1,474	1,530	1,318	1,170	1,205	1,460	1,686	1,471	1,067
Portland	1,152	1,315	1,181	1,278	1,271	1,316	2,023	2,115	1,976	1,424
Toledo	2,326	2,310	1,950	2,110	[illegible]	1,760	1,819	1,620	1,350	1,162
Salina	1,810	1,993	1,936	1,622	[illegible]	1,318	1,128	975	1,734	1,672
Philadelphia	163	142	124	147	[illegible]	243	199	365	510	...
Wichita	1,867	1,875	1,830	1,993	2,026	1,624	2,059	1,865	1,917	...
*Northwestern mills	9,866	11,860	11,957	11,367	11,301	12,097	12,049	10,169	11,181	9,875
†Central states mills ...	1,343	4,447	4,267	3,896	1,852	2,116	4,480	3,933	3,401	3,137
St. Louis outside mills..	2,017	2,411	2,333	2,362	2,396	2,085	1,915	1,912	2,190	1,930
*Southeastern mills	3,927	4,116	4,421	4,926	4,897	5,074	5,433	11,291	...	...

*The figures for these mills are exclusive of the amounts ground at the centers listed above. †After 1926 figures for the output of Toledo flour mills are also included in the statistics for central states mills.

PRODUCTION AND CONSUMPTION OF DURUM PRODUCTS IN THE UNITED STATES

Statistics compiled by the United States Department of Commerce showing the production and consumption of durum wheat products in the United States:

	Durum wheat ground, bus	Semolina produced (Barrels)	Flour produced (Barrels)	Semolina exported (Barrels)	Flour exported (Barrels)	Consumed in U. S. Semolina (Barrels)	Consumed in U. S. Flour (Barrels)
1924—							
January-June	5,451,715	821,503	341,636	57,873	147,568	763,830	194,068
July-December	6,594,830	1,062,410	416,073	167,198	231,139	895,212	184,934
1925—							
January-June	4,668,282	741,070	318,703	78,919	151,351	662,151	167,352
July-December	7,373,556	1,136,180	495,741	116,851	200,596	1,019,329	295,145
1926—							
January-June	6,841,438	1,050,873	470,684	62,955	[illegible]	[illegible]	307,733
July-December	7,009,579	1,165,192	411,664	94,951	[illegible]	[illegible]	234,669
1927—							
January-June	5,072,626	868,476	259,282	71,331	141,183	797,145	118,099
July-December	7,809,023	1,280,152	409,613	99,904	104,626	1,180,248	304,987
1928—							
January-June	6,804,804	1,037,175	353,972	42,863	143,468	994,312	210,504
July-December	8,013,683	1,207,829	493,644	66,744	168,310	1,141,085	325,334
1929—							
January-June	7,813,704	1,146,438	488,557	49,220	101,710	1,097,218	374,847
July-December	8,015,616	1,184,796	535,941	33,351	98,138	1,151,455	437,808
1930—							
January-June	7,003,156	1,081,057	401,210	37,629	58,614	1,043,428	345,596

Philadelphia—Flour Output

Output of wheat flour by mills at Philadelphia, Pa., in barrels:

1930.........	162,792	1925.........	243,012
1929.........	141,828	1924.........	199,397
1928.........	124,230	1923.........	364,634
1927.........	147,086	1922.........	510,214
1926.........	186,890		

Seattle—Flour Mills

Seattle, Wash., flour mills and daily capacities, in barrels:

Fisher Flouring Mills Co.	6,000
Charles H. Lilly Co.	450
Novelty Mill Co.	300
City Mills	60
Total	6,810

UNITED STATES—PRODUCTION OF SELF-RISING FLOUR

A table, compiled by Felix T. Pope of the United States Department of Commerce, shows the production of self-rising flour. The figures have been computed from reports of manufacturers of bicarbonate of soda of the amounts sold to manufacturers of self-rising flour. For the purposes of the calculation, it is assumed that 1¼ lbs of soda are mixed with every 100 lbs of flour, and that every 100 lbs of flour produces 105 lbs of self-rising flour, allowing for other ingredients such as salt and calcium phosphate.

Sodium bicarbonate utilized by manufacturers of self-rising flour, in pounds (000's omitted):

	1924	1925	1926	1927	1928	1929	1930
January-June	12,546	12,708	12,992	14,301	14,293	14,977	14,254
July-December	14,590	13,093	15,415	14,401	15,761	15,644	.....
Totals for year	27,136	25,801	28,407	28,702	30,054	30,621	.....

Equivalent amount of self-rising flour produced, in barrels (000's omitted):

	1924	1925	1926	1927	1928	1929	1930
January-June	4,481	4,539	4,640	5,108	[illegible]	5,349	5,091
July-December	5,210	4,676	5,505	5,143	5,629	5,587	.....
Totals for year	9,691	9,215	10,145	10,251	10,734	10,936	.....

Central States—Flour Output

Flour output of central states mills, including those at Toledo, making reports to the Toledo office of The Northwestern Miller, by weeks, for 1930, and the per cent of full 24-hour capacity they were operated:

	Output, bbls	Per cent capacity
Jan. 4	63,812	56
Jan. 11	67,530	56
Jan. 18	83,766	[illegible]
Jan. 25	[illegible]	73
Feb. 1	81,657	72
Feb. 8	90,311	71
Feb. 15	80,965	70
Feb. 22	99,360	73
March 1	92,768	82
March 8	81,543	44
March 15	85,436	[illegible]
March 22	[illegible]	68
March 29	[illegible]	64
April 5	61,753	63
April 12	74,887	61
April 19	81,702	69
April 26	88,323	67
May 3	82,011	[illegible]
May 10	82,734	[illegible]
May 17	66,935	62
May 24	70,307	59
May 31	78,859	59
June 7	40,477	61
June 14	63,322	66
June 21	87,945	[illegible]
June 28	95,151	[illegible]
July 5	58,494	57
July 12	73,552	74
July 19	[illegible]	77
July 26	[illegible]	[illegible]
Aug. 2	90,444	[illegible]
Aug. 9	97,133	[illegible]
Aug. 16	113,716	82
Aug. 23	106,456	82
Aug. 30	93,430	80
Sept. 6	68,790	[illegible]
Sept. 13	110,268	[illegible]
Sept. 20	96,646	[illegible]
Sept. 27	97,176	74
Oct. 4	94,948	78
Oct. 11	80,330	66
Oct. 18	83,393	[illegible]
Oct. 25	118,974	64
Nov. 1	86,564	71
Nov. 8	89,328	[illegible]
Nov. 15	77,400	66
Nov. 22	92,967	69
Nov. 29	88,926	74
Dec. 6	88,472	64
Dec. 13	80,453	60
Dec. 20	76,332	[illegible]
Dec. 27	77,121	[illegible]
Total output and average per cent	4,342,927	[illegible]

Output first half, 2,041,606 bbls, [illegible] per cent of capacity; second half year, [illegible] bbls, 72 per cent.

OUTPUT IN OTHER YEARS*

	Output, bbls	Per cent capacity
1929................	4,446,964	64½
1928................	4,267,134	62½
1927................	3,896,122	67
1926................	1,852,128	55
1925................	2,115,587	55
1924................	4,480,293	64
1923................	3,933,497	57½
1922................	3,400,570	50
1921................	3,187,434	44
1920................	2,621,686	38
1919................	2,525,328	40½
1918................	2,110,973	47½
1917................	3,093,550	60¼

*Before 1927, these figures showing the flour output of the central states excluded the production of mills at Toledo. After 1927, inclusive, figures include Toledo production.

Nashville—Grain Exchange

President, George G. Keith; vice president, Frank Ahearn; secretary-treasurer, John C. Bennett.

Minneapolis—Weekly Flour Output

Weekly flour output, in barrels, for the year 1930, of the Minneapolis mills, with a combined estimated daily capacity of 67,850 bbls, and the percentage of activity to total capacity, based on six 24-hour days a week, with comparisons:

Week ending—	Output, 1930	'30	'29	'28	'27	'26	'25
Jan. 1-4	120,900	45	40	54	42	14	19
Jan. 11	192,933	48	39	59	41	57	26
Jan. 18	204,536	51	44	56	39	49	38
Jan. 25	195,614	49	55	54	40	45	40
Feb. 1	192,635	48	47	55	51	43	42
Feb. 8	222,592	55	67	57	40	41	45
Feb. 15	196,639	48	46	58	44	37	42
Feb. 22	209,014	51	44	53	35	43	40
March 1	209,675	52	40	59	44	41	38
March 8	216,996	53	50	57	41	51	37
March 15	260,[illegible]	[illegible]	49	62	42	46	33
March 22	228,723	[illegible]	39	59	48	37	33
March 29	206,047	50	37	58	43	45	27
April 5	[illegible]	40	42	56	40	39	27
April [illegible]	[illegible]	46	40	53	40	34	28
April 19	[illegible]1,068	44	40	58	50	33	31
April 26	189,372	45	42	57	42	34	30
May 3	18[illegible],257	45	48	51	38	34	31
May [illegible]	213,704	51	42	46	41	40	30
May [illegible]	191,175	48	50	50	36	39	34
May 24	181,366	41	46	44	48	40	32
May [illegible]	176,444	43	39	41	35	38	23
June [illegible]	178,715	44	46	47	38	36	33
June 14	185,239	46	40	44	37	36	30
June [illegible]	169,887	42	44	[illegible]	44	40	39
June [illegible]	214,911	53	46	[illegible]	42	44	49
July [illegible]	136,922	34	26	36	43	37	45
June 12	201,401	49	41	44	[illegible]	30	[illegible]
July 19	208,205	51	40	40	53	39	53
July 26	207,712	51	43	45	48	44	48
Aug. 2	169,661	61	43	50	50	46	35
Aug. 9	230,526	56	45	49	42	40	48
Aug. 16	205,546	50	57	50	43	45	36
Aug. 23	225,453	[illegible]	56	50	46	40	44
Aug. 30	222,051	55	55	54	49	38	50
Sept. 6	226,674	55	46	49	[illegible]	48	52
Sept. 13	274,876	68	54	45	63	44	46
Sept. 20	265,741	70	49	56	72	55	73
Sept. 27	289,005	71	51	61	68	62	63
Oct. 4	276,260	68	40	59	73	56	69
Oct. 11	252,626	[illegible]	[illegible]	55	72	63	72
Oct. 18	229,063	[illegible]	46	64	51	54	69
Oct. 25	240,185	59	51	53	59	62	[illegible]
Nov. 1	188,330	46	52	50	58	40	55
Nov. 8	216,548	53	61	50	58	[illegible]	50
Nov. 15	205,689	52	53	46	[illegible]	37	55
Nov. 22	228,952	56	47	45	49	37	51
Nov. 29	197,165	48	45	39	43	36	[illegible]
Dec. 6	[illegible]	49	48	[illegible]	53	47	48
Dec. 13	192,083	[illegible]	[illegible]	46	62	41	49
Dec. 20	185,926	46	[illegible]	55	59	40	48
Dec. 27-31	222,332	34	[illegible]	40	52	33	35
Totals	10,797,194	53	51	51	48	43	43

Minneapolis—Flour Output and Exports

Minneapolis flour output by months and crop years, in barrels:

	1929-30	1928-29	1927-28	1926-27
Sept.	952,039	1,010,415	1,190,531	1,216,076
Oct..	978,529	1,179,098	1,269,200	1,265,346
Nov..	911,958	910,749	1,103,869	918,282
Dec..	757,307	939,094	1,135,221	943,941
Jan..	874,512	929,594	1,110,726	817,038
Feb..	835,080	925,378	1,079,215	776,112
Mch.	975,201	865,530	1,221,780	912,578
April.	792,755	828,343	1,076,845	859,687
May..	854,317	858,660	968,826	808,693
June..	771,906	842,095	860,957	785,336
July..	846,193	791,791	834,505	922,910
Aug..	940,162	1,086,185	1,050,644	958,876
Yr	10,489,956	11,165,930	12,902,419	11,184,875

Minneapolis direct foreign shipments, by months and crop years, in barrels:

	1929-30	1928-29	1927-28	1926-27
September	4,914	1,376	3,529	11,010
October	1,010	2,797	9,676	11,190
November	4,150	4,432	6,181	17,940
December	2,214	2,523	3,710	9,964
January	2,881	1,735	3,875	6,868
February	2,947	1,397	3,499	5,876
March	1,649	1,772	4,460	11,042
April	3,356	3,469	[illegible]	8,432
May	3,173	2,785	[illegible]	3,426
June	2,147	370	12,429	6,445
July	3,491	941	5,346	6,007
August	3,142	3,270	3,523	3,265
Year	35,074	26,866	74,291	101,455

Northwest—Flour Output and Exports

Flour output and foreign shipments by mills of the Northwest outside of Minneapolis and Duluth, by calendar years (000's omitted in output and exports):

	No. mills	Output	Exports		No. mills	Output	Exports
1930..	70	10,271	508	1918..	65	9,015	381
1929..	70	12,244	458	1917..	66	10,963	126
1928..	72	12,393	410	1916..	66	10,671	172
1927..	73	11,887	170	1915..	66	11,261	252
1926..	62	11,301	122	1914..	62	11,364	195
1925..	62	12,097	194	1913..	60	9,795	280
1924..	60	12,049	152	1912..	58	9,150	210
1923..	61	10,169	103	1911..	68	8,202	182
1922..	62	11,181	20	1910..	60	8,091	177
1921..	62	9,876	29	1909..	66	8,918	460
1920..	36	8,745	38	1908..	69	8,730	451
1919..	64	11,739	77				

United States—Alfalfa Meal Output

Production of alfalfa meal in the United States by crop years, as reported by the Department of Agriculture, in tons:

	1930-31	1929-30	1928-29
June	30,066	19,385	26,492
July	23,602	24,408	26,707
August	29,537	28,884	38,716
September	40,865	32,252	42,925
October	24,761	40,847	40,427
November	27,705	27,785	33,132
December	25,646	42,077	31,808
January	....	44,521	51,232
February	....	11,653	37,393
March	....	22,871	27,893
April	....	14,588	14,659
May	....	11,197	8,686
Totals	*202,172	350,768	380,160

*Seven months only.

NORTHWEST—FLOUR MILL CAPACITY

Approximate number of flour mills and total daily capacity, in barrels, in Minnesota, North and South Dakota and Montana, at the end of each calendar year, as reported to The Northwestern Miller:

	Minnesota* No.	Minnesota* Capacity	North Dakota No.	North Dakota Capacity	South Dakota No.	South Dakota Capacity	Totals, "outside" mills No.	Totals, "outside" mills Capacity	Minneapolis No.	Minneapolis Capacity
1930.	142	61,350	49	14,825	38	5,448	229	81,623	30	[illegible]
1929.	151	65,085	50	15,050	[illegible]	5,748	243	85,883	30	76,000
1928.	171	[illegible]	53	15,550	41	5,458	215	77,308	30	77,650
1927.	140	[illegible]	58	16,210	[illegible]	5,718	242	78,813	30	83,150
1926.	172	[illegible]	61	17,560	50	5,943	283	86,438	29	83,150
1925.	196	68,855	70	15,670	64	7,905	330	[illegible]	28	88,200
1924.	215	74,380	79	17,370	74	8,945	368	[illegible]	[illegible]	91,450
1923.	231	77,035	73	17,430	69	6,500	373	100,965	29	95,350
1922.	247	78,225	88	17,130	78	8,585	413	103,940	27	93,450
1921.	256	77,530	89	15,730	81	8,910	426	102,170	26	93,300
1920.	268	77,665	94	17,375	83	10,115	445	105,155	26	93,300
1919.	264	76,715	98	17,560	87	10,450	449	104,725	28	93,900
1918.	234	70,010	85	16,455	73	10,865	392	97,330	29	89,300
1917.	237	68,725	77	15,920	[illegible]	10,890	388	95,535	26	86,400
1916.	243	68,19[illegible]	75	15,685	76	11,090	391	94,970	26	80,200
1915.	258	69,245	71	15,485	82	11,685	[illegible]	96,415	[illegible]	73,800
1914.	[illegible]	72,125	[illegible]	16,175	81	[illegible]1,375	427	99,675	23	72,800
1913.	292	74,185	[illegible]	16,265	86	12,425	451	102,875	23	72,800
1912.	288	[illegible]	[illegible]	16,065	85	[illegible]0,485	445	100,035	23	72,800
1911.	303	[illegible]	77	16,070	88	10,270	468	101,555	23	72,800
1908.	296	[illegible]	74	15,300	94	10,600	464	101,885	23	72,800

	St. Paul No.	St. Paul Capacity	Duluth-Superior No.	Duluth-Superior Capacity	Totals, 3 states No.	Totals, 3 states Capacity	Montana No.	Montana Capacity	Totals, 4 states No.	Totals, 4 states Capacity
1930..	[illegible]	2,800	2	6,100	263	166,523	55	13,880	[illegible]	180,403
1929..	[illegible]	2,800	2	6,100	279	170,783	55	13,880	334	184,663
1928..	[illegible]	2,900	2	6,200	251	164,058	56	13,520	[illegible]	177,578
1927..	[illegible]	4,900	2	6,200	278	173,063	57	13,410	[illegible]	186,473
1926..	[illegible]	4,900	2	6,100	317	180,588	61	13,610	378	194,198
1925..	[illegible]	3,650	2	6,150	362	[illegible]	65	13,275	[illegible]27	203,705
1924..	[illegible]	3,650	2	6,150	401	[illegible]	67	13,235	468	215,180
1923..	[illegible]	4,000	2	6,500	406	[illegible]	72	13,857	478	220,672
1922..	3	4,650	2	6,500	445	208,510	74	13,467	519	222,007
1921..	[illegible]	4,150	2	6,500	457	206,120	79	13,684	536	219,801
1920..	[illegible]	4,750	2	6,500	477	209,705	84	13,859	561	223,504
1919..	[illegible]	....	2	6,500	479	205,125	[illegible]	13,825	561	218,950
1918..	..	....	[illegible]	6,250	426	192,880	66	12,877	492	205,757
1917..	..	....	[illegible]	6,050	419	187,985	60	11,517	479	199,502
1916..	..	....	[illegible]	6,050	425	181,220	52	7,877	477	189,097
1915..	..	....	[illegible]	6,050	440	176,265	35	6,670	475	182,035
1914..	..	....	[illegible]	6,050	455	178,525	[illegible]	5,740	481	184,265
1913..	..	....	[illegible]	6,050	479	181,725	..	....	...	....
1912..	..	....	[illegible]	5,900	472	178,735	..	....	...	....
1911..	..	....	[illegible]	5,900	495	180,255	..	....	...	....
1908..	..	....	3	6,000	490	180,685	..	....	...	....

*Mills outside of Minneapolis and Duluth, and since 1920 also outside of St. Paul.

Chicago—Flour Output

Estimated flour output of Chicago mills by calendar years, in barrels:

1930	1,635,094	1918	1,148,250
1929	1,527,600	1917	1,168,118
1928	1,765,077	1916	1,235,000
1927	1,851,000	1915	1,155,000
1926	1,867,000	1914	1,083,000
1925	1,781,000	1913	1,028,000
1924	1,858,000	1912	1,108,000
1923	1,342,000	1911	1,027,500
1922	1,476,500	1910	1,090,000
1921	820,000	1909	1,058,000
1920	955,000	1908	850,000
1919	1,272,000	1907	1,000,000

Louisville—Flour Mills

Flour mills of Louisville, Ky., with daily capacity:

	Bbls
Ballard & Ballard Co.	3,000
Washburn Crosby Co.	2,000
Total	5,000

Chicago—Flour Mills

Chicago, Ill., flour mills, with their daily capacity, in barrels:

B. A. Eckhart Milling Co.	4,000
Washburn Crosby Co.	3,000
Total	7,000

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RICHMOND, VIRGINIA

Minneapolis—Flour Output and Exports

Flour output and direct foreign flour shipments of Minneapolis mills by calendar years:

	Output bbls	Exports bbls	Per ct exported
1930	10,797,191	[illegible]	.26
1929	10,796,630	[illegible]	.26
1928	12,243,754	60,322	.49
1927	11,540,051	73,466	[illegible]
1926	11,793,258	[illegible]	.99
1925	12,059,557	[illegible]	1.22
1924	11,679,130	[illegible]	1.84
1923	13,488,460	[illegible]	[illegible]
1922	15,6[illegible]	555,600	3.55
1921	14,871,750	1,012,785	6.81
1920	15,003,195	864,825	5.76
1919	17,600,890	1,098,255	6.26
1918	14,413,830	1,334,260	9.26
1917	17,610,846	1,085,590	6.16
1916	18,541,650	1,410,970	7.60
1915	18,089,195	1,459,690	8.06
1914	17,76[illegible],280	[illegible]1,873,930	10.54
1913	17,673,725	1,764,805	[illegible]
1912	17,03[illegible],935	1,132,640	6.65
1911	15,795,470	1,136,685	7.19
1910	15,375,760	1,323,650	[illegible]
1909	14,867,245	1,646,190	[illegible]
1908	13,694,895	2,121,255	[illegible]
1907	13,660,465	2,349,540	17.19
1906	13,825,795	2,425,035	17.54
1905	14,366,095	2,188,775	15.23
1904	13,652,735	1,741,120	12.75
1903	15,581,805	3,080,610	[illegible]
1902	16,260,105	3,410,405	20.97
1901	[illegible]	3,897,905	21.31
1900	[illegible]	4,702,485	31.11
1899	[illegible]	4,009,135	28.05
1898	14,232,595	4,052,585	28.47
1897	13,635,205	3,912,630	29.13
1896	[illegible]	3,717,265	28.80
1895	[illegible]0,581,635	3,080,935	[illegible]
1894	[illegible],400,535	2,370,756	[illegible]
1893	9,377,635	2,877,275	[illegible]
1892	9,750,470	3,337,205	34.22
1891	7,877,947	3,038,065	38.53
1890	[illegible]	2,107,125	30.14
1889	[illegible]	1,953,815	32.08
1888	7,056,680	2,197,540	31.14
1887	6,574,900	2,650,000	40.39
1886	6,168,000	2,288,500	37.10
1885	5,221,245	1,834,845	35.13
1884	5,317,670	1,805,875	33.22
1883	4,046,220	1,343,105	33.10
1882	3,175,910	1,201,630	37.83
1881	3,142,970	1,181,322	[illegible]
1880	2,051,840	799,410	[illegible]
1879	1,551,790	442,600	28.52
1878	940,785	107,185	11.39

Minneapolis—Flour Output and Exports

Flour output and direct foreign shipments of Minneapolis mills by crop years (Sept. 1 to Aug. 31):

	Output bbls	Exports bbls	*Per cent
1929-30	10,489,956	35,074	.33
1928-29	11,165,930	26,866	.21
1927-28	12,902,119	74,291	[illegible]
1926-27	11,184,865	101,461	.97
1925-26	12,509,057	99,991	.80
1924-25	10,969,152	218,211	[illegible]
1923-24	12,191,411	107,022	[illegible]
1922-23	15,730,865	82,160	[illegible]
1921-22	14,786,650	870,265	5.88
1920-21	14,524,845	971,810	6.69
1919-20	17,117,610	736,730	[illegible]
1918-19	16,513,630	1,161,135	[illegible]
1917-18	15,265,310	888,210	5.82
1916-17	16,235,330	1,166,850	[illegible]
1915-16	20,443,185	1,628,195	[illegible]
1914-15	16,182,250	1,768,715	10.92
1913-14	18,146,530	1,699,580	9.31
1912-13	18,230,160	1,761,935	9.66
1911-12	15,708,075	739,500	[illegible]
1910-11	15,813,190	1,341,995	8.49
1909-10	16,075,155	1,609,135	10.01
1908-9	13,697,370	1,786,925	13.05
1907-8	13,137,300	1,981,610	[illegible]
1906-7	14,159,760	2,136,170	[illegible]
1905-6	16,141,785	2,671,755	[illegible]
1904-5	12,747,325	1,675,785	[illegible]
1903-4	14,213,085	2,281,755	[illegible]
1902-3	16,505,645	3,331,805	[illegible]
1901-2	15,802,270	3,160,160	19.19
1900-1	14,863,395	3,973,179	26.73
1899-1900	15,308,160	4,847,600	[illegible]
1898-9	15,318,415	4,593,110	29.98
1897-8	13,299,180	3,569,225	26.84
1896-7	13,473,160	3,618,555	[illegible]
1895-6	12,577,120	4,011,790	[illegible]
1894-5	9,128,225	2,377,090	[illegible]
1893-4	9,321,630	2,362,559	[illegible]
1892-3	9,349,615	3,038,692	32.50
1891-2	9,500,554	3,668,380	38.61
1890-1	7,134,098	2,576,510	31.[illegible]
1889-90	6,863,015	2,091,215	30.47
1888-9	5,710,380	1,557,57[illegible]	27.13
1887-8	7,211,930	2,617,795	36.19
1886-7	6,375,250	2,523,030	39.59
1885-6	5,953,200	2,288,500	38.17

*Per cent of flour output exported direct by mills to foreign countries.

Portland—Flour Mills

Portland, Oregon, flour mills and daily capacities, in barrels:

Crown Mills (controlled by Balfour Guthrie & Co.)	[illegible]
Columbia Milling Co. (controlled by Centennial Mill Co.)	[illegible]
Rose City Flour Mills (Idle)	[illegible]
Kerr Gifford & Co., Inc	[illegible]
Albers Bros. Milling Co.	[illegible]
Terminal Flour Mills Co.	[illegible]
Old Fashion Mill, Inc.	[illegible]
Total	[illegible]

Portland, Oregon—Flour Output

Wheat flour output of mills at Portland, Oregon, by calendar years, in barrels:

1930	1,152,136	1922	[illegible]
1929	1,315,000	1921	[illegible]
1928	1,181,119	1920	[illegible]
1927	1,278,185	1919	[illegible]
1926	1,271,153	1918	[illegible]
1925	1,315,611	1917	[illegible]
1924	2,022,691	1916	91[illegible]
1923	2,115,340		50[illegible]

Duluth-Superior—Flour Output

Flour output of Duluth-Superior mills, by months and crop years ended Aug. 31, in barrels:

	1929-30	1928-29	[illegible]	[illegible]
September..	124,138	106,186	[illegible]	[illegible]
October ...	111,059	144,218	117,425	[illegible]
November .	115,483	116,131	98,000	[illegible]
December .	69,003	108,186	[illegible]	90,195
January ...	76,906	[illegible]	[illegible]	61,230
February ..	80,018	[illegible]	[illegible]	59,405
March	76,196	83,765	[illegible]	67,656
April	85,313	71,926	57,355	56,050
May	100,480	87,871	65,210	51,730
June	71,821	102,118	78,445	[illegible]
July	98,049	91,022	70,800	53,735
August	110,512	116,357	103,870	[illegible]
Totals.	1,121,040	1,207,721	1,028,075	852,630

BY CALENDAR YEARS

Flour output and exports of Duluth-Superior mills, by calendar years, in barrels:

	Output	Exports		Output	Exports
1930.	1,140,027	*....	1910.	784,790	51,065
1929.	1,151,662	*....	1909.	624,240	76,350
1928.	1,101,276	*....	1908.	591,766	74,085
1927.	893,616	*....	1907.	716,280	78,660
1926.	940,693	*....	1906.	908,176	19,900
1925.	1,029,487	*....	1905.	793,146	106,500
1924.	937,366	*....	1904.	835,720	64,730
1923.	1,016,616	*....	1903.	1,178,696	353,115
1922.	1,004,176	*....	1902.	1,809,620	877,956
1921.	768,616	4,500	1901.	860,605	379,925
1920.	822,126	*....	1900.	346,460	76,030
1919.	1,118,666	*....	1899.	1,745,326	540,006
1918.	885,200	*....	1898.	2,459,966	983,235
1917.	1,148,610	10,106	1897.	2,632,830	761,115
1916.	1,272,660	101,660	1896.	3,120,945	1,228,395
1915.	1,334,716	96,386	1895.	3,505,060	1,076,340
1914.	1,212,626	160,670	1894.	2,946,386	820,510
1913.	1,115,690	205,000	1893.	2,108,119	613,196
1912.	996,636	186,736	1892.	3,960,035	......
1911.	730,846	47,626	1891.	684,000	......

*Figures not obtainable.

Duluth-Superior—Flour Output and Exports

Flour output and direct foreign shipments of Duluth-Superior mills, by crop years ended Aug. 31, in barrels:

	Output	Exports
[illegible]	1,121,040	*.....
[illegible]	1,207,721	*.....
[illegible]	1,028,975	*.....
[illegible]	852,630	*.....
1925-26	961,830	*.....
1924-25	991,710	*.....
1923-24	943,965	*.....
1922-23	1,071,075	*.....
1921-22	840,410	*.....
1920-21	711,295	3,900
1919-20	1,032,635	......
1918-19	1,051,386	......
1917-18	1,036,495	......
1916-17	1,096,980	58,740
1915-16	1,401,500	98,585
1914-15	1,212,080	111,905
1913-14	1,120,890	200,185
1912-13	1,073,550	231,170
1911-12	[illegible]	52,476
1910-11	[illegible]	62,280
1909-10	712,745	80,980
1908-9	599,840	72,800
1907-8	585,276	61,245
1906-7	771,870	75,020
1905-6	1,034,605	124,400
1904-5	635,775	5,000
1903-4	1,031,355	237,225
1902-3	1,123,365	537,095
1901-2	1,605,915	832,300
1900-1	477,615	187,400
1899-1900	719,155	279,820
1898-99	2,637,015	1,021,630
1897-98	2,133,120	668,245
1896-97	2,630,380	791,485
1895-96	3,401,500	1,308,215
1894-95	3,325,025	928,120
1893-94	2,671,885	657,565
1892-93	1,607,620	305,505

*Figures not obtainable.

Minneapolis-Duluth—Per Cent of Activity

Percentage of flour produced by Minneapolis and Duluth-Superior mills, compared with their maximum daily capacity, by calendar years, in barrels:

MINNEAPOLIS

	Daily capacity	Output	Pct.
1930	67,850	10,797,191	53
1929	70,850	10,796,630	51
1928	76,800	12,243,754	51
1927	76,800	11,540,051	50
1926	88,200	11,793,258	43
1925	90,000	12,059,557	43
1924	93,300	11,679,130	41
1923	94,100	13,458,460	46
1922	94,100	15,642,395	54
1921	91,000	14,871,750	54
1920	91,000	15,003,195	55
1919	91,000	17,500,890	64
1918	87,300	14,413,830	55
1917	85,455	17,611,000	66
1916	85,400	18,541,660	70
1915	74,800	18,089,195	77
1914	73,800	17,769,280	77
1913	72,800	17,673,725	77
1912	72,800	17,031,935	74
1911	72,800	15,795,470	69

DULUTH-SUPERIOR

	Daily capacity	Output	Pct.
1930	6,100	1,140,027	62
1929	6,100	1,151,562	63
1928	6,200	1,101,275	57
1927	6,200	893,615	46
1926	6,200	940,693	49
1925	6,200	1,029,497	53
1924	6,200	937,355	48
1923	6,250	1,015,615	52
1922	6,250	1,001,175	52
1921	6,250	768,615	41
1920	6,250	822,125	[illegible]
1919	6,250	1,118,000	60
1918	6,250	885,000	[illegible]
1917	6,050	1,118,000	61
1916	6,050	1,273,000	67
1915	6,050	1,334,535	70
1914	6,050	1,212,625	[illegible]
1913	6,050	1,115,590	61
1912	6,050	996,635	53
1911	5,950	730,815	41

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Buffalo—Flour Mills

Flour mills at Buffalo, N. Y., with daily capacities:

George Urban Milling Co.	1,800
Russell-Miller Milling Co.	3,000
Pillsbury Flour Mills Co.	10,000
Washburn Crosby Co., Inc.	20,000
Hecker-Jones-Jewell Milling Co.	5,000
International Milling Co.	6,000
Buffalo Flour Mills Corporation (operated by Commander Milling Co.).	2,000
Total, bbls	47,500

Buffalo—Flour Output

Wheat flour output of Buffalo, N. Y., mills, by calendar years, in barrels:

1930	12,269,920	1917	5,610,350
1929	10,132,969	1916	7,122,920
1928	10,060,029	1915	6,590,350
1927	10,031,814	1914	5,718,550
1926	9,671,829	1913	5,107,570
1925	9,458,112	[illegible]	4,869,285
1924	6,988,609	1911	4,731,000
1923	6,462,571	1910	3,764,850
1922	6,708,827	1909	3,172,500
1921	6,693,255	1908	2,664,500
1920	5,213,360	1907	2,607,500
1919	6,688,290	1906	2,317,500
1918	5,917,710		

Crop year output:

1929-30...	11,282,020	1927-28...	10,331,310
1928-29...	10,093,634		

Buffalo—Flour Output

Output of wheat flour by Buffalo mills by months and calendar years, in barrels:

	1930	1929	1928
January	994,960	897,778	848,622
February	878,501	752,162	754,499
March	1,074,361	824,420	870,059
April	1,055,342	711,981	786,574
May	1,084,520	799,383	710,915
June	950,976	874,185	856,234
July	1,035,103	846,130	[illegible]
August	1,086,930	[illegible]	923,911
September	1,100,439	965,504	838,185
October	1,097,259	706,315	979,554
November	927,236	913,092	754,872
December	980,970	851,559	832,822
Totals	12,269,920	10,132,969	10,060,029

Indianapolis—Flour Output

Flour output of Indianapolis mills, by calendar years, in barrels:

1930	619,000	1920	408,041
1929	553,491	1919	537,290
1928	430,169	1918	279,806
1926	391,438	1917	476,402
1925	439,713	1916	572,955
1924	516,080	1915	483,149
1923	499,083	1914	496,309
1922	471,911	1913	460,000
1921	356,200	1912	443,032

Toledo—Flour Mills

Flour mills of Toledo, Ohio, or those having headquarters there, with daily capacity:

	Bbls
National Milling Co.	6,000
Mennel Milling Co.*	2,500
Northwestern Elevator & Mill Co.†	1,500
Total, bbls	10,000

*Mill at Fostoria, Ohio; office at Toledo. †Toledo mill, 1,000 bbls; Mount Vernon mill, 500 bbls.

FEED MILLS

Feed mills of Toledo, Ohio:

Sheets Elevator Co., 280 tons poultry feed.

Imperial Grain & Milling Co., corn and feed.

Kasco Mills, Inc., commercial feeds.

Toledo—Flour Output

Output of wheat flour by mills at Toledo, with a figure showing the percentage produced compared to the full 24-hour capacity of the mills concerned, in barrels, by calendar years:

	Output, bbls	Per cent capacity
1930	2,326,475	[illegible]
1929	2,310,411	[illegible]
1928	1,949,933	72
1927	2,110,050	79
1926	2,001,350	79
1925	1,760,050	70
1924	1,818,650	74½
1923	1,620,060	[illegible]
1922	1,350,000	54
1921	1,162,075	[illegible]
1920	929,930	37
1919	1,669,560	62½
[illegible]	1,117,313	[illegible]
[illegible]	1,478,500	59
[illegible]	1,662,700	62¾
1915	1,456,750	58¾

Milwaukee—Flour Output

Wheat flour output of Milwaukee mills by calendar years, in barrels:

1927*	......	1918	401,741
1926	106,750	1917	371,500
1925	372,850	1916	611,200
1924	193,230	1915	716,212
1923	217,800	1914	727,583
1922	245,156	1913	783,504
1921	358,742	1912	1,054,624
1920	417,683	1911	961,330
1919	589,070	1910	1,284,530

RYE FLOUR

1927*	......	1921	137,667
1926	......	1920	121,826
1925	......	1919	183,064
1924	......	1918	221,340
1923	15,800	1917	22,190
1922	66,316		

*No flour has been milled in Milwaukee since 1926.

Minneapolis—Flour Output and Exports

Minneapolis flour output by months and calendar years, in barrels:

	1930	[illegible]	1928	1927
Jan..	[illegible]	[illegible]	[illegible]	817,038
Feb..	[illegible]	925,380	[illegible]	776,112
[illegible]	975,201	865,530	1,221,780	812,578
April	[illegible]	825,010	1,076,945	859,687
May.	854,317	932,205	968,526	808,693
[illegible]	771,906	[illegible]	[illegible]	[illegible]
July..	846,193	[illegible]	[illegible]	[illegible]
Aug..	910,162	1,085,185	1,050,611	958,876
Sept.	1,167,049	952,040	1,010,415	1,190,531
Oct..	1,062,342	978,530	1,179,098	1,269,200
Nov..	[illegible]	911,960	910,749	1,103,869
Dec..	[illegible]	757,310	939,094	1,135,221
Tot.	10,797,194	10,796,630	12,243,755	11,540,042

Minneapolis foreign shipments, by months and calendar years, in barrels:

	[illegible]	[illegible]	[illegible]	[illegible]
January	[illegible]	[illegible]	[illegible]	[illegible]
February	2,917	1,397	3,499	[illegible]
March	1,649	1,772	4,160	[illegible]
April	3,354	3,469	9,336	[illegible]
May	3,173	2,785	9,727	[illegible]
June	2,147	370	12,423	[illegible]
July	3,491	941	5,346	[illegible]
August	3,142	3,270	[illegible]	[illegible]
September	5,060	4,914	[illegible]	3,529
October	110	1,010	[illegible]	9,676
November	....	4,150	[illegible]	5,131
December	....	[illegible]	[illegible]	3,710
Totals	27,986	28,028	60,322	73,436

Minneapolis—Flour-Mill Capacity

Minneapolis flour mills and daily capacities, in barrels of 196 lbs:

Atkinson Milling Co.	1,650
Century Milling Co. (Idle)	2,600
Everett, Aughenbaugh & Co.	3,000
Fruen Milling Co.	100
King Midas Mill Co.	750
Minneapolis Milling Co. (Nokomis)	3,000
Minnesota State Testing Mill	150
N. W. Consolidated Co.—	
A (Crown Roller)	3,000
B (Columbia)	3,000
C (Galaxy) (Idle)	2,000
D (Northwestern)	[illegible]
E (Zenith)	2,000
F (Standard)	2,800
Paramount Mill (Idle)	2,400
Pillsbury Flour Mills Co.—A	11,000
A South	3,500
Anchor	1,000
Palisade	1,700
Phoenix (Rye)	1,500
Lincoln (Anoka)	1,700
Russell-Miller Milling Co.—A	3,000
Washburn Crosby Co.—	
B	1,400
South C	4,500
North C	6,500
Washburn D	1,100
Washburn E	1,500
Washburn F	600
Washburn Rye	1,000
Washburn East A	2,000
North Star	250
Total, bbls	76,000

Duluth-Superior—Flour Mills

Flour mills of Duluth-Superior, with daily capacities, in barrels:

Mills—Operators—	
Duluth Universal—Duluth Universal Milling Co.	600
Daisy Durum—Dul.-Superior Mlg. Co..	700
Daisy Rye—Duluth-Superior Mlg. Co..	150
Daisy—Duluth-Superior Mlg. Co.	3,000
Listman—Duluth-Superior Mlg. Co.	2,000
Total	6,350

Duluth-Superior—Rye Flour Output

Output of rye flour by Duluth-Superior mills, in barrels (000's omitted):

	1929-30	1928-29	1927-28	1926-27
September	[illegible]	[illegible]	3	2
October	[illegible]	[illegible]	[illegible]	3
November	[illegible]	[illegible]	[illegible]	[illegible]
December	[illegible]	[illegible]	[illegible]	[illegible]
January	1	1	3	[illegible]
February	[illegible]	1	[illegible]	1
March	3	1	1	[illegible]
April	[illegible]	1	[illegible]	[illegible]
May	[illegible]	[illegible]	[illegible]	[illegible]
June	3	[illegible]	2	9
July	[illegible]	1	[illegible]	[illegible]
August	[illegible]	[illegible]	[illegible]	3
Totals	[illegible]	[illegible]	30	31

Totals for crop years (Sept. 1-Aug. 31), in barrels:

1929-30	26,000	1923-24	21,415
1928-29	33,010	1922-23	12,135
1927-28	28,135	1921-22	9,445
1926-27	31,855	1920-21	[illegible]
1925-26	23,415	1919-20	5,020
1924-25	17,980		

Los Angeles—Flour Mills

Los Angeles, Cal., flour mills and daily capacities, in barrels:

Capital Milling Co.	500
Globe Grain & Milling Co.	1,100
California Milling Corporation	750
Taylor Milling Co.	50
El Molino Milling Co.	[illegible]
Vitimin Products Corporation	260
Total	2,675

St. Paul—Flour Output

Flour output of St. Paul, Minn., mills, by calendar years, in barrels:

[illegible]	[illegible]	1924	595,447
1929	374,348	1923	672,000
1928	435,886	1922	633,145
1927	520,268	1921	498,515
1926	576,358	1920	388,765
1925	492,194		

U. S.—Wheat Flour Milling Capacity

Estimated number of mills in the United States grinding wheat flour, and total wheat flour capacity, in barrels per 24-hour day, including all mills submitting reports to The Northwestern Miller which may properly be regarded as active or potentially active, as of Jan. 1, 1931, compared with the corresponding number and capacity on Jan. 1, 1930:

	1930 No.	1930 Capacity	1931 No.	1931 Capacity
Alabama	10	440	11	440
Arizona	6	960	[illegible]	960
Arkansas	68	4,681	66	4,331
California	43	11,175	39	10,775
Colorado	46	11,690	47	11,265
Delaware	39	1,365	39	1,365
D. of Columbia	1	350	1	350
Georgia	30	6,295	[illegible]	6,570
Idaho	58	8,150	[illegible]	7,730
Illinois	142	48,740	139	48,150
Indiana	251	33,633	276	34,118
Iowa	88	14,379	88	15,359
Kansas	127	91,510	128	90,960
Kentucky	196	20,025	189	19,560
Louisiana	1	25	1	25
Maine	[illegible]	325	5	325
Maryland	132	10,778	131	10,628
Massachusetts	1	100	1	100
Michigan	251	25,512	248	25,142
Minnesota	181	141,085	[illegible]	137,350
Mississippi	2	50	[illegible]	50
Missouri	242	80,394	237	79,884
Montana	55	13,880	55	13,880
Nebraska	121	22,798	[illegible]	22,473
Nevada	[illegible]	970	11	970
New Jersey	[illegible]	1,540	17	1,540
New Mexico	24	1,375	[illegible]	1,375
New York	184	70,650	177	67,250
North Carolina	150	14,011	152	14,336
North Dakota	49	14,250	49	14,825
Ohio	431	47,664	430	48,474
Oklahoma	52	22,660	52	23,635
Oregon	75	19,652	75	19,952
Pennsylvania	536	31,877	532	31,519
South Carolina	18	1,320	18	1,320
South Dakota	42	5,748	38	5,448
Tennessee	221	27,347	219	26,652
Texas	69	35,105	68	35,280
Utah	71	11,560	72	11,655
Virginia	[illegible]	22,236	332	22,221
Washington	53	29,800	51	29,110
West Virginia	124	6,686	123	6,536
Wisconsin	172	21,008	171	20,883
Wyoming	[illegible]	2,030	21	2,050
Totals	4,833	935,629	4,718	926,821

Canada—Milling Capacity

Active flour milling capacity on Jan. 1, 1931, of Canada, by provinces, and total cereal milling capacity:

FLOUR MILLS—1931

	No. mills	Bbls daily
Nova Scotia	17	750
New Brunswick	16	720
Prince Edward Island	10	345
Quebec	85	22,900
Ontario	236	65,420
Manitoba	33	[illegible]
Saskatchewan	49	[illegible]
Alberta	43	13,520
British Columbia	7	1,200
	504	133,610

PREVIOUS TOTALS, BBLS

1930	136,370	1921	133,725
1929	137,415	1920	133,520
1928	135,705	1919	124,395
1927	134,365	1918	124,100
1926	130,005	1917	115,000
1925	137,705	1916	111,450
1924	133,245	1915	111,365
1923	141,640	1914	112,000
1922	139,367	1913	111,200

OATMEAL MILLS

(Daily Capacity, Bbls)

1930	6,475	1922	8,975
1929	6,475	1921	9,760
1928	5,975	1920	10,125
1927	6,675	1919	7,450
1926	6,855	1918	7,500
1925	6,500	1917	6,000
1924	6,905	1916	6,900
1923	7,655	1915	8,605

Canada—City Mill Capacity

Daily flour milling capacity at leading Canadian centers, in barrels:

Montreal, Que.	19,000
Port Colborne, Ont.	13,000
Keewatin-Kenora, Ont.	13,000
Winnipeg-St. Boniface, Man.	8,500
Saskatoon, Sask.	7,200
Calgary, Alta.	5,400
Peterboro, Ont.	5,400
Medicine Hat, Alta.	4,900
Moose Jaw, Sask.	4,000
Toronto, Ont.	4,000
Fort William, Ont.	3,000
Goderich, Ont.	2,500
Guelph, Ont.	1,200
Midland, Ont.	1,200
Portage la Prairie, Man.	1,200
Brantford, Ont.	1,100
Vancouver, B. C.	1,000
London, Ont.	800
St. Mary's, Ont.	800
Galt, Ont.	750
St. Thomas, Ont.	750
Stratford, Ont.	700
Chatham, Ont.	650
Lethbridge, Alta.	600
Renfrew, Ont.	550
Edmonton, Alta.	500
Souris, Man.	500
Seaforth, Ont.	500

Besides these large merchant mills, there are several hundred smaller country mills scattered over the various provinces. The total flour milling capacity of Canada is 133,610 bbls.

Nashville—Flour Mills

Flour mills of Nashville, Tenn., with daily capacities, in barrels:

Liberty Mills	2,000
Colonial Milling Co.	2,000
Southland Mill & Elevator Co.	350
Freeland Milling Co.	100
C. L. Ligett & Son	200
Total	4,650

FLOUR BLENDING PLANTS

Cherokee Mills	1,500
Royal Milling Co.	800
State Milling Co.	600
J. H. Wilkes & Co.	2,000
Wautauga Milling Co.	2,400
Milford Milling Co.	1,000
C. L. Ligett & Son	500
Snell Milling Co.	500
Nashville Roller Mills	3,000
Tennessee Milling Co.	500
Total	12,800

Seattle-Tacoma—Flour Output

Flour output of mills at Seattle and Tacoma, by calendar years, in barrels:

	Seattle	Tacoma
1930	1,281,963	1,974,302
1929	1,473,842	2,249,044
1928	1,530,092	2,021,395
1927	[illegible]	1,723,145
1926	[illegible]	1,483,442
1925	[illegible]	1,158,648
1924	1,460,486	1,289,575
1923	1,685,568	1,563,136
1922	1,471,453	1,455,552
1921	1,067,888	1,481,119
1920	1,352,320	1,392,149
1919	[illegible]	1,686,442
1918	[illegible]	1,433,243
1917	[illegible]	1,425,190
1916	[illegible]	1,428,624
1915	[illegible]	1,163,980
1914	1,018,795	1,362,822

Great Lakes—Opening of Lake Navigation

Date of opening of navigation on the Great Lakes, as indicated by first arrival of vessels at Duluth from the lower lake ports:

1930	April 29	1916	April 23
1929	April 15	1915	April 20
1928	May 4	1914	April 25
1927	April 16	1913	April 26
1926	May 2	1912	April 25
1925	April 17	1911	April 18
1924	April 28	1910	April [illegible]
1923	May 5	1909	April 28
1922	April 21	1908	April 29
1921	April 14	1907	April 26
1920	April 29	1906	April 17
1919	April 14	1905	April 20
1918	May 1	1904	May 18
1917	May 6	1903	April 11

Canada—Flour Output

Wheat ground and flour produced and exported in the calendar year 1930, together with comparisons, as compiled from the monthly reports of the Dominion bureau of statistics:

Month—	Wheat ground bus	Flour output bbls	Exports bbls
January	[illegible]	[illegible]	502,888
February	[illegible]	[illegible]	480,587
March	[illegible]	[illegible]	680,697
April	[illegible]	1,215,002	461,395
May	[illegible]	1,393,982	573,157
June	[illegible]	1,160,922	597,752
July	[illegible]	1,435,970	658,834
August	[illegible]	1,547,936	627,233
September	7,254,614	1,624,238	734,349
October	8,348,434	1,868,575	813,691
November	7,788,827	1,739,375	792,271
December	5,225,805	1,170,025	601,894
	74,279,473	16,594,345	7,514,778
PREVIOUS YEARS			
1929	83,982,448	[illegible]	9,573,000
1928	90,378,486	19,791,000	10,737,000
1927	80,790,037	17,679,000	9,262,000
1926	85,316,163	18,966,000	10,456,000
1925	83,280,633	18,563,000	10,319,000
1924	[illegible]	[illegible]	11,478,000
1923	[illegible]	18,716,000	....
1922	[illegible]	16,894,000	....

Rochester—Flour Output

Flour output of Rochester, N. Y., mills, by calendar years, in barrels:

1930	[illegible]	1923	[illegible]
1929	[illegible]	1922	[illegible]
1928	[illegible]	1921	396,850
1927	[illegible]	1920	395,475
1926	*	1919	[illegible]
1925	100,000	1918	[illegible]
1924	310,000		

*Not available.

Montreal—Navigation Season

First arrivals and last departures of ocean vessels at Montreal for a number of years:

	Arrival	Departure
1930	April 23	Dec. 10
1929	April 15	Dec. 7
1928	April 16	Dec. 10
1927	April 17	Dec. [illegible]
1926	May 3	Dec. [illegible]
1925	April 23	Dec. 3
1924	April 25	Dec. 5
1923	May 3	Dec. [illegible]
1922	April 25	Dec. [illegible]
1921	April 21	Dec. [illegible]
1920	April 25	Dec. 6
1919	April 22	Dec. 10
1918	May 7	Dec. 18
1917	May 1	Dec. [illegible]
1916	May 1	Dec. [illegible]

Canada—Flour Output

Total wheat flour output of the Canadian mills by crop years, as reported by the Dominion bureau of statistics, in barrels (000's omitted):

	1929-30	1928-29	1927-28	1926-27
August	1,607	1,590	1,168	1,044
September	1,283	1,892	1,528	1,634
October	1,527	2,130	2,006	2,231
November	1,629	2,176	2,120	2,089
December	1,073	1,672	1,767	1,715
January	1,168	1,698	1,579	1,496
February	1,051	1,600	1,464	1,231
March	1,219	1,631	1,617	1,455
April	1,215	1,606	1,314	1,154
May	1,384	1,748	1,541	1,455
June	1,161	1,548	1,359	1,314
July	1,430	1,603	1,458	1,019
Totals	15,763	20,893	18,910	17,835

Totals for previous crop years:

1925-26	19,06[illegible]	1922-23	19,220,058
1924-25	18,216,0[illegible]	1921-22	15,454,616
1923-24	20,701,395		

Canada—Flour Output

Total wheat flour output of the Canadian mills, as reported by the Dominion Bureau of Statistics, in barrels (000's omitted):

	1930	1929	1928	1927	1926
January	1,168	1,698	1,579	1,196	1,422
February	1,051	1,600	1,464	1,231	1,440
March	1,219	1,631	1,617	1,455	1,603
April	1,215	1,606	1,314	1,154	1,416
May	1,394	1,749	1,541	1,455	[illegible]
June	1,161	1,548	1,359	1,314	[illegible]
July	1,436	1,603	1,458	1,019	[illegible]
August	1,548	1,607	1,590	1,168	1,044
September	1,624	1,283	1,892	1,528	1,634
October	1,869	1,527	2,130	2,005	2,231
November	1,739	1,629	2,175	2,120	2,059
December	1,170	1,073	1,672	1,767	1,715
Totals	16,594	18,551	19,791	17,702	18,966

Canada—Percentage of Activity

Total wheat flour output and percentage of operation of Canadian mills, for 12 months ending Dec. 31, 1930:

	Output bbls	Pct. of operation
January	1,168,004	38.6
February	1,051,114	37.7
March	1,219,202	40.4
April	1,215,002	42.0
May	1,393,982	46.6
June	1,160,922	[illegible]
July	1,435,970	[illegible]
August	1,547,936	[illegible]
September	1,624,238	[illegible]
October	1,868,575	[illegible]
November	1,739,375	[illegible]
December	1,170,025	38.7
	16,594,316	

FLOUR OUTPUT OF UNITED STATES MILLS

Tables compiled by the Bureau of the Census, United States Department of Commerce, showing the amount of flour produced in United States mills in 1928 and 1929, by states and months, in barrels (000's omitted):

1930—	Total	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Minnesota	18,505	1,469	1,380	1,571	1,407	1,476	1,397	1,517	1,642	1,897	1,795	1,526	1,423
Kansas	17,416	1,384	1,284	1,309	1,357	1,406	1,362	1,570	1,605	1,593	1,641	1,419	1,356
New York	13,422	1,184	1,097	1,234	1,175	1,116	1,040	1,116	1,164	1,129	1,119	982	1,036
Missouri	9,800	868	786	887	835	842	753	751	801	842	863	764	745
Washington	4,698	432	379	369	313	309	318	342	468	502	508	380	[illegible]
Texas	5,263	501	409	446	439	408	387	437	480	473	465	415	403
Illinois	5,193	378	347	415	409	396	422	400	495	534	515	437	439
Oklahoma	4,053	365	263	363	323	292	306	344	369	305	350	309	314
Ohio	3,889	337	313	337	335	315	283	329	353	345	331	293	316
Oregon	2,548	219	215	199	179	200	195	174	230	324	348	281	278
Nebraska	3,208	247	232	252	236	264	261	279	294	304	313	264	262
Indiana	2,840	242	227	229	239	218	219	238	262	265	268	223	220
California	1,942	164	159	159	151	173	155	161	176	162	175	153	164
Iowa	1,878	152	130	130	161	153	147	161	161	196	194	[illegible]	[illegible]
Montana	1,736	144	118	132	152	135	143	171	167	149	164	148	[illegible]
Colorado	1,737	165	134	138	149	117	119	169	157	166	170	133	[illegible]
Michigan	1,797	149	140	129	148	133	141	165	173	167	175	141	146
Tennessee	1,684	162	141	144	140	132	130	148	148	137	167	127	118
Utah	1,579	130	139	123	122	124	123	119	153	138	164	125	[illegible]
Kentucky	1,437	124	133	126	118	116	108	113	126	111	131	123	109
Pennsylvania	1,435	117	110	110	104	101	122	109	139	137	139	120	[illegible]
North Dakota	1,299	70	64	61	73	69	92	136	138	180	202	153	61
Wisconsin	1,192	82	88	78	93	102	84	118	107	108	125	121	56
North Carolina	1,132	99	86	96	91	89	86	99	101	101	111	84	69
Virginia	1,067	85	82	92	94	85	73	94	101	95	90	85	85
Idaho	707	61	53	62	61	60	55	66	65	61	74	51	67
Maryland	621	[illegible]	53	41	62	42	49	66	60	58	59	60	50
South Dakota	177	10	12	[illegible]	12	14	14	14	17	19	19	17	16
All other*	1,317	119	104	108	109	95	96	103	109	120	129	109	114
United States	113,806	9,510	8,783	9,347	9,071	8,981	8,687	9,466	10,313	10,674	10,817	9,184	8,973

1929—	Total	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Minnesota	19,927	1,692	1,596	1,628	1,529	1,706	1,605	1,611	1,969	1,811	1,839	1,655	1,356
Kansas	17,576	1,676	1,429	1,433	1,346	1,518	1,372	1,490	1,674	1,486	1,586	1,360	1,306
New York	12,851	1,147	964	1,046	990	1,125	1,090	1,014	1,186	1,176	1,037	1,037	1,013
Missouri	10,416	880	810	829	803	893	832	808	885	903	983	888	902
Washington	5,461	515	485	503	406	360	391	446	487	503	614	425	426
Texas	5,307	429	380	390	363	386	382	492	544	489	534	458	460
Illinois	4,317	389	337	306	289	328	324	368	465	410	400	349	346
Oklahoma	3,991	313	261	294	266	293	305	354	397	394	419	360	335
Ohio	3,844	351	301	310	278	281	275	287	364	339	397	339	322
Oregon	3,216	308	279	299	283	193	176	243	276	282	340	288	249
Nebraska	3,078	282	248	241	233	253	239	255	300	250	295	240	236
Indiana	2,668	249	208	200	183	217	199	195	259	232	289	230	[illegible]
California	2,008	181	169	163	157	174	165	152	178	159	188	167	155
Iowa	1,881	146	134	135	133	152	150	154	197	188	210	158	125
Montana	1,848	131	132	137	144	161	165	161	194	159	193	161	128
Colorado	1,735	146	137	131	109	135	132	145	175	156	191	146	132
Michigan	1,734	161	129	126	132	141	134	146	168	158	162	141	137
Tennessee	1,727	149	137	144	136	137	126	150	174	150	155	136	127
Utah	1,481	128	104	105	104	108	105	108	155	130	172	128	128
Kentucky	1,422	126	116	114	110	113	107	100	134	121	143	114	125
Pennsylvania	1,361	112	101	101	97	106	96	107	143	130	136	116	116
North Dakota	1,230	74	73	77	79	84	79	99	137	144	200	118	66
Wisconsin	1,197	102	96	84	77	95	103	102	108	126	114	116	75
North Carolina	1,175	109	95	96	95	96	88	113	107	102	103	86	85
Virginia	1,004	86	76	83	73	74	68	87	99	94	101	88	75
Idaho	788	73	72	71	59	68	64	57	86	62	[illegible]	61	53
Maryland	680	47	48	50	51	53	49	67	72	75	64	57	[illegible]
South Dakota	151	8	10	9	9	12	10	13	17	17	16	16	[illegible]
All other*	1,236	106	100	103	102	92	91	113	108	110	115	94	102
United States	115,308	10,014	9,026	9,207	8,636	9,334	8,912	9,337	11,058	10,373	10,968	9,538	8,905

*Incl[illegible] [illegible]izona, Arkansas, Dist. Columbia, Georgia, New Hampshire, New Jersey, New Mexico, South Carolina, West Virginia, Wyoming.

Flour Milling Capacity at Centers

Estimated total wheat flour-milling capacity in all cities and towns reporting, on Jan. 1, 1931, a total capacity of 1,000 bbls per day, or more:

	Daily capacity, bbls
Arkansas—	
Arkadelphia	1,000
California—	
Los Angeles	2,175
San Francisco	1,700
Vallejo	3,000
Colorado—	
Denver	4,140
Georgia—	
Atlanta	1,800
Columbus	1,100
Illinois—	
Alton	4,900
Beardstown	2,000
Belleville	1,600
Chester	1,350
Chicago	7,000
East St. Louis	3,600
Mt. Carmel	2,200
Nashville	1,300
Quincy	1,170
Springfield	1,500
Indiana—	
Evansville	3,100
Indianapolis	3,840
Lawrenceburg	2,500
Mt. Vernon	1,200
Noblesville	1,250
Seymour	1,200
Iowa—	
Cedar Rapids	2,125
Davenport	3,650
Des Moines	1,220
Sioux City	1,600
Kansas—	
Abilene	1,800
Arkansas City	3,800
Atchison	5,150
Clay Center	1,400
Coffeyville	1,800
Dodge City	1,150
Ellinwood	1,200
Ellsworth	2,000
Enterprise	1,000
Great Bend	3,200
Hays City	1,000
Hutchinson	5,800
Larned	1,300
Lawrence	1,500
Leavenworth	2,500
Lyons	1,200
McPherson	1,250
Newton	2,725
Salina	8,000
Topeka	5,400
Wellington	3,400
Wichita	10,700
Winfield	1,000
Kentucky—	
Hopkinsville	1,725
Louisville	5,000
Maryland—	
Ellicott City	1,500
Frederick	1,060
Hagerstown	1,090
Michigan—	
Detroit	3,500
Hillsdale	1,750
Minnesota—	
Appleton	1,000
Cannon Falls	1,500
Crookston	1,300
Faribault	3,050
Hastings	3,250
Janesville	1,200
Lake City	1,300
Madelia	1,200
Mankato	3,400
Minneapolis	76,000
Montgomery	3,000
Morristown	1,250
New Prague	2,300
New Ulm	5,750
Red Wing	3,500
St. Paul	3,300
Shakopee	1,250
Sleepy Eye	2,000
Wabasha	1,100
Waseca	1,600
Winona	4,000
Missouri—	
Aurora	1,000
Carthage	1,385
Clinton	1,200
Independence	1,300
Jackson	1,250
Joplin	1,000
Kansas City	30,250
St. Joseph	8,000
St. Louis	11,600
Springfield	2,025
Montana—	
Billings	1,050
Bozeman	1,000
Great Falls	4,025
Harlowton	1,000
Nebraska—	
Crete	1,400
Lincoln	2,200
Omaha	4,600
Schuyler	1,000
New York—	
Buffalo	47,500
Lockport	2,200
Niagara Falls	4,000
Rochester	1,475
N. Carolina—	
Charlotte	1,100
Statesville	2,566
N. Dakota—	
Grand Forks	4,800
Jamestown	1,000
Minot	1,350
Valley City	1,810
Ohio—	
Cleveland	1,200
Columbus	1,600
Fostoria	2,500
Kent	1,000
Mansfield	1,490
Springfield	1,200
Toledo	7,600
Oklahoma—	
Alva	1,025
El Reno	1,900
Enid	4,800
Kingfisher	1,200
Oklahoma City	4,000
Yukon	1,500
Oregon—	
Astoria	4,000
Pendleton	2,500
Portland	6,200
The Dalles	2,100
Pennsylvania—	
Philadelphia	1,600
York	1,450
S. Dakota—	
Watertown	1,200
Tennessee—	
Chattanooga	1,550
Clarksville	1,375
Johnson City	1,150
Knoxville	2,755
Nashville	4,700
Texas—	
Amarillo	1,050
Dallas	4,900
Fort Worth	3,800
Galveston	1,700
Houston	2,000
McKinney	1,000
New Braunfels	1,130
San Antonio	3,300
Sherman	2,500
Wichita Falls	2,800
Utah—	
Ogden	5,250
Salt Lake City	1,875
Virginia—	
Richmond	2,400
Roanoke	1,325
Washington—	
Cheney	1,000
Seattle	7,810
Spokane	3,550
Tacoma	9,620
Wisconsin—	
La Crosse	4,580
Superior	5,600
Wyoming—	
Sheridan	1,100
Total daily capacity at centers	544,040
Estimated total U. S. daily capacity	926,821
Percentage at centers	58.5

National Association of Importers

The National Association of Flour Importers was organized some years ago. The principal object is to strengthen the position of the flour trade in the United Kingdom by having a central board representing the different parts of the United Kingdom, to deal with all questions of a national character affecting the trade, leaving local interests to the several individual associations concerned.

Officers of the association: president, F. T. Collins, London; vice president, C. Hamilton Milne, Glasgow; secretary-treasurer, J. H. Pillman, London.

Canada—Millfeed Production

Total millfeed production of Canadian mills, as reported by the Dominion bureau of statistics, in tons (000's omitted):

	1930 Bran	1930 Shorts and middlings	1930 Total*	1929 Bran	1929 Shorts and middlings	1929 Total*
January	16	24	40	25	40	65
February	16	21	37	38	36	74
March	18	25	43	25	37	62
April	19	24	43	38	36	74
May	22	28	50	26	39	65
June	18	25	43	23	35	58
July	22	30	52	22	35	57
August	23	33	56	22	34	56
September	24	33	57	18	27	45
October	30	36	66	21	33	54
November	29	34	63	23	35	58
December	19	22	41	16	23	39
Totals	256	335	591	268	410	678
Totals by crop years, Aug. 1-July 31:						
1928-29	297	462	1,011	..	..	..
1927-28	277	405	878	..	..	..
1929-30	229	329	568	..	..	..

Minneapolis Linseed Oil Mills

Operated by—	Yearly capacity
Archer-Daniels Midland Co.—	
Midland—	
Bus flaxseed	4,000,000
Bbls oil	200,000
Tons cake	80,000
Archer-Daniels—	
Bus flaxseed	4,200,000
Bbls oil	223,000
Tons cake	84,000
Northern—	
Bus flaxseed	600,000
Bbls oil	30,000
Tons cake	12,000
Minnesota Linseed Oil Co.—	
Bus flaxseed	1,000,000
Bbls oil	50,000
Tons cake	20,000
Spencer Kellogg & Sons, Inc.—	
Kellogg—Minneapolis—	
Bus flaxseed	4,500,000
Bbls oil	250,000
Tons cake	100,000
Kellogg—Minnesota Transfer—	
Bus flaxseed	2,400,000
Bbls oil	140,000
Tons cake	43,000

Tunis—Crops

Grain crops of Tunis, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats	Corn
1930	9,663	5,512	1,722	236
1929	12,309	11,482	3,445	256
1928	12,125	12,681	2,239	268
1927	5,267	4,197	1,481	98
1926	12,993	8,832	2,139	126
1925	11,758	6,830	2,594	234
1924	5,181	2,626	1,585	205
1923	9,921	11,482	2,766	236
1922	3,674	1,837	965	31
1921	10,619	11,482	4,134	354
1920	5,229	2,756	1,481	110
1919	7,349	5,512	2,756	217
1918	8,451	10,426	3,617	*300
1917	6,963	8,267	3,996	354
1916	7,165	4,914	2,067	*300
1915	11,023	11,482	3,445	*300
1914	2,205	3,216	689	*300
1913	5,511	7,266	4,133	...
1912	4,225	3,070	2,067	...

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Corn
1930	1,656	988	...	42
1929	1,730	1,236	133	49
1928	2,011	1,459	104	43
1927	1,234	856	89	33
1926	1,840	1,409	95	44
1925	1,625	1,245	101	58
1924	1,159	692	112	41
1923	1,606	1,212	123	44
1922	1,072	734	126	16
1921	1,500	1,228	159	50
1920	1,319	934	149	33
1919	1,408	1,117	127	45
1918	1,413	1,197	161	45
1917	1,310	1,038	124	44

*Conjectural.

Cyprus—Wheat Crop

Wheat crops of Cyprus, by calendar years, as reported by the International Institute of Agriculture, in bushels (000's omitted):

1929	2,195	1923	2,611
1928	1,551	1922	2,496
1927	1,864	1921	2,425
1926	1,618	1920	2,268
1925	2,079	1919	2,216
1924	1,850		

British Offal Terms

White bran is the product of white wheats, such as Australian and certain Pacific Coast varieties, which wheats are light in color.

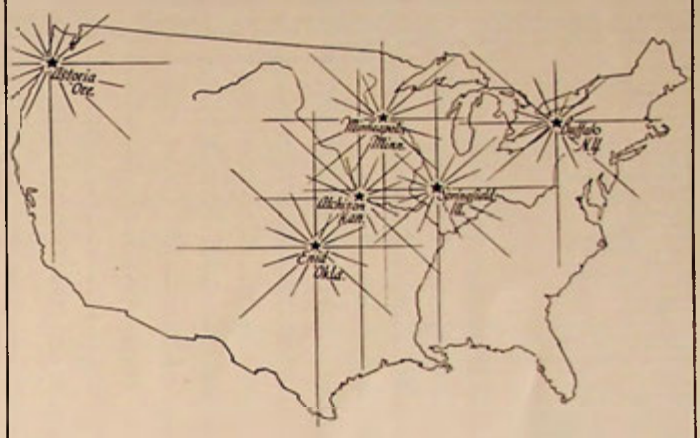
Middlings is the best grade of offals after the flour and bran have been extracted.

Pollards is a grade of offal usually not quite so good as middlings, and is the term generally used for middlings made by the mills of Argentina, being known on the British market as Plate pollards.

Broad bran is a species of bran produced by British mills which consists of the smaller flakes of bran damped by steam and passed through smooth rolls, causing the adhesion of several flakes together, thus giving larger flakes.

Decorticated meal is made from cottonseed from which the husk has been peeled or decorticated. The oil is then extracted and the residue is ground into a fine meal of a bright yellow color.

...These Great Mills



Can Serve You Well

With mills located at strategic points throughout the country, the Pillsbury Flour Mills Company is well equipped to serve you. Operating under one management, the Pillsbury organization has exceptional facilities for the milling and distribution of its products. Each plant is equipped with modern machinery for the milling of flour according to Pillsbury standards of quality. Every step of the milling process is carried on under the supervision of the Pillsbury laboratories, giving positive control over the finished product.

If you are not already using Pillsbury products, give them a trial. You will find them highly satisfactory and dependable always.

PILLSBURY FLOUR MILLS COMPANY

General Offices: MINNEAPOLIS, MINNESOTA

Mills at Minneapolis, Minn. · Buffalo, N. Y. · Springfield, Ill. Atchison, Kan. · Enid, Okla. · Astoria, Ore.

U. S. IMPORTS AND EXPORTS OF GRAIN AND ITS PRODUCTS

A Section Devoted to Statistics Giving Particulars of the Foreign Trade of the United States in Grain and Its Products—Figures Show Trade for a Number of Years and Give Full Particulars of Countries of Destination, Customs District From Which Shipped, Etc.

UNITED STATES—WHEAT FLOUR EXPORTS IN 1930

Wheat flour exports from the United States by months from Jan. 1 to Dec. 31, 1930, with countries of destination, as officially reported by the Bureau of Foreign and Domestic Commerce, in barrels of 196 lbs (000's omitted):

	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Austria	4	3	6	8	7	2	4	4	7	8	6	5	63
Azores, Madeira	..	4	2	4	2	4	7	2	1	3	3	4	36
Belgium	..	1	1	2	3	1	5	3	11	11	6	6	46
Denmark	45	37	31	38	50	38	40	64	76	68	53	32	572
Finland	16	16	18	31	48	29	29	50	64	54	10	8	373
France	1	1	1	..	1	..	1	..	1	..	1	1	8
Germany	46	38	40	23	30	26	17	39	40	47	13	12	369
Greece	1	2	3	5	4	2	4	2	1	1	2	2	29
Italy	3	3	3	3	6	3	5	9	8	6	3	5	59
Irish Free State	18	15	10	16	9	14	16	12	9	6	8	8	141
Malta, etc.	1	2	4	1	2	1	1	1	4	2	1	1	21
Netherlands	83	56	120	78	103	129	103	180	122	139	137	113	1,473
Norway	25	38	54	19	24	12	32	45	48	18	24	10	349
Sweden	21	3	8	7	4	6	2	4	3	2	2	1	64
United Kingdom	160	116	130	85	116	109	141	201	172	136	93	77	1,536
Other Europe	..	..	1	1	1	2	1	2	2	3	2	1	16
Canada	10	6	6	9	5	6	9	10	7	6	5	5	87
British Honduras	2	2	1	2	2	1	2	2	1	2	1	2	20
Costa Rica	9	15	9	11	12	12	10	8	9	8	4	16	133
Guatemala	16	12	17	12	14	19	16	7	13	10	10	12	157
Honduras	5	3	4	5	2	4	2	4	5	4	3	4	45
Nicaragua	8	8	7	7	4	4	5	6	9	6	6	6	74
Panama	13	11	8	10	9	13	12	12	11	8	12	13	132
Salvador	24	9	8	5	6	8	7	3	8	17	6	6	109
Mexico	14	5	8	8	9	10	8	2	3	4	3	2	76
Cuba	100	92	112	88	107	87	79	86	71	81	81	71	1,055
Haiti	9	17	26	28	13	9	12	16	17	32	19	20	217
Barbados	2	1	1	1	2	2	2	2	2	1	..	2	18
Jamaica	4	3	5	5	4	4	4	5	5	5	3	2	51
Trinidad and Tobago	1	..	1	1	..	1	..	1	1	1	..	..	6
Other Br. W. Indies	3	2	3	2	2	2	1	1	1	3	2	1	23
Dominican Republic	11	7	8	11	8	13	7	6	5	9	7	6	98
Dutch West Indies	5	4	5	6	6	5	5	4	5	8	4	6	63
French West Indies	13	12	18	12	9	11	9	8	15	19	8	11	146
Virgin Islands	2	1	3	2	2	2	1	2	2	1	2	2	22
Newfoundland and Labrador	4	3	3	1	4	13	5	10	6	5	7	23	86
Brazil	55	55	61	91	83	79	79	55	78	72	75	66	849
Venezuela	31	21	26	22	30	22	21	23	19	32	15	19	281
Bolivia	10	6	12	5	6	6	5	10	4	5	7	3	79
Colombia	8	7	8	9	12	11	11	8	11	11	9	13	118
Ecuador	5	8	12	16	6	9	10	9	12	7	10	6	110
Guiana	2	1	2	2	2	1	2	2	1	1	2	1	19
Peru	6	6	11	11	7	12	7	6	7	8	9	12	102
Chile	..	4	2	3	..	1	..	2	3	5	2	2	24
China	28	41	51	42	11	5	7	54	176	156	180	44	795
Hongkong	101	61	45	55	32	42	92	103	100	93	83	859	
Japan	6	9	10	20	4	3	5	2	3	..	..	3	67
Kwangtung	161	30	18	18	16	23	16	19	54	87	104	40	585
Philippine Islands	60	63	48	53	74	60	43	54	59	48	56	50	608
Palestine and Syria	5	6	4	4	5	3	1	3	4	3	3	2	43
British West Africa	3	1	2	3	3	5	5	4	2	3	2	2	34
Egypt	34	19	6	8	9	15	21	20	22	12	13	13	192
Morocco	3	..	1	1	1	1	3	6	1	2	2	2	23
Spanish Africa	3	2	1	..	..	2	3	5	5	3	2	3	29
Canary Islands	3	2	5	5	2	..	5	4	2	2	5	4	39
French Africa	3	5	6	3	5	8	5	7	..	5	4	2	53
French Oceania	1	1	2	1	1	..	2	1	3	1	1	2	16
Portuguese Africa	1	1	2	1	1	2	2	1	1	1	1	1	15
British Malaya	..	4	2	..	3	2	2	2	1	1	1	1	21
Union of South Africa	1	1	1	1	2	2	2	2	1	1	2	4	20
Surinam	6	3	3	2	1	3	3	3	3	3	3	3	34
Other Dutch E. Indies	2	1	3	..	6	3	2	..	..	..	..	..	17
Java and Madura	2	1	2	..	..	..	..	..	..	..	..	..	5
Gold Coast	12	12	9	6	6	10	10	11	12	13	5	4	110
New Zealand	1	..	1	1	2	1	1	..	1	1	..	1	10
Nigeria	4	2	3	1	2	..	4	3	2	3	2	2	28
Other countries	2	4	..	5	3	9	..	4	4	4	5	16	56
Totals	1,240	925	1,044	934	1,029	940	945	1,227	1,412	1,330	1,156	892	13,000

UNITED STATES MONTHLY FLOUR AND WHEAT EXPORTS

Exports of wheat flour from the United States, by months and calendar years, as officially reported, in barrels of 196 lbs (000's omitted):

	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921
January	1,240	1,369	1,245	1,009	676	988	1,716	1,161	1,099	1,280
February	925	1,220	947	874	648	936	1,539	1,379	1,255	1,019
March	1,044	1,259	1,011	867	695	1,387	1,426	1,430	1,495	1,370
April	934	1,108	997	1,016	834	955	1,038	1,167	1,198	1,591
May	1,029	933	845	1,009	679	690	976	983	1,089	1,265
June	940	944	686	863	667	820	1,174	806	932	1,516
July	945	1,084	647	788	793	776	789	884	921	1,238
August	1,227	1,116	932	1,052	1,362	874	949	1,273	1,169	1,873
September	1,412	1,163	1,020	1,280	1,560	800	1,462	1,568	1,301	1,802
October	1,330	1,311	1,384	1,513	1,385	1,013	1,854	2,092	1,610	1,557
November	1,156	1,156	1,199	1,326	1,344	872	1,616	1,778	1,556	1,246
December	892	1,123	939	1,126	1,208	1,009	1,462	1,789	1,500	1,011
Totals	13,060	13,663	11,852	12,823	11,850	11,119	15,990	16,310	15,025	16,801

Totals, by fiscal years ending June 30, in barrels (000's omitted):

1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24	1922-23	1921-22	1920-21	1919-20
13,008	12,858	12,821	13,381	9,542	13,896	17,263	14,883	15,798	16,181	21,651

Exports of wheat from the United States, by months and calendar years, as officially reported, in bushels of 60 lbs (000's omitted):

	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921
January	8,245	3,380	5,956	8,078	2,412	8,484	4,421	7,296	10,038	21,345
February	6,185	3,214	2,276	4,889	1,700	7,387	3,103	5,991	5,676	18,469
March	2,414	3,487	2,740	5,084	3,770	9,961	2,949	4,291	7,645	14,001
April	3,050	3,942	2,723	11,363	2,533	8,424	3,747	4,943	4,856	17,611
May	5,433	11,741	4,823	8,960	9,368	9,870	2,811	9,973	9,366	25,933
June	8,066	4,564	5,006	7,459	8,074	7,070	4,975	9,252	14,006	25,235
July	11,934	8,691	4,153	8,397	16,091	5,288	4,058	8,852	14,980	24,842
August	18,646	12,094	10,374	23,402	29,075	7,901	16,835	14,198	33,703	58,537
September	12,716	13,104	17,979	33,748	23,700	9,395	32,662	15,409	25,987	30,842
October	6,311	8,767	22,058	29,236	17,589	4,365	45,112	9,239	18,282	18,206
November	3,266	9,997	10,561	20,731	14,230	4,696	27,838	4,148	10,577	13,956
December	2,507	7,149	7,641	6,917	9,622	3,695	17,791	4,941	9,676	10,461
Totals	*87,774	90,130	96,290	168,307	138,164	86,526	166,302	98,533	164,692	280,058

Totals, by fiscal years ending June 30, in bushels (000's omitted):

1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24	1922-23	1921-22	1920-21	1919-20
92,176	103,114	115,999	166,250	63,189	195,490	78,793	154,951	208,321	293,268	122,431

UNITED STATES—WHEAT FLOUR IMPORTS

Imports of wheat flour into the United States by calendar years, as officially reported by the Department of Commerce, in barrels of 196 lbs (000's omitted):

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Canada	2	4	5	9	11	64	267	694	965	791
Argentina	..	..	..	..	..	..	..	..	..	7
Other countries	..	2	..	1	1	1	1	..	1	3
Totals	2	6	5	10	12	65	268	694	966	801

UNITED STATES—WHEAT FLOUR EXPORTS

Exports of wheat flour from the United States, with countries of destination, by calendar years, as officially reported by the Department of Commerce, in barrels of 196 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Argentina	1	..	2	1	1	..	1	..	..	1
Armenia, etc.	..	..	..	..	..	..	..	17	2	..
Australia	6	1	..	..	..	..	3	..	..	..
Austria and Hungary	22	10	23	9	1	2	..	1	3	1,156
Azores and Madeira Islds.	43	45	65	28	27	6	16	25	15	4
Barbados	16	14	13	14	11	10	16	12	15	29
Belgian Kongo	4	1	1	1	..	1	1	1	1	6
Belgium	12	16	53	42	34	113	44	60	196	981
Bermuda	10	2	10	3	6	2	2	1	3	1
Bolivia	84	82	143	121	90	113	35	45	19	37
Brazil	781	820	854	988	767	634	464	426	261	623
British East Africa	2	4	3	1	1	..	..	..	..	2
British Guiana	4	2	3	3	5	2	4	6	10	22
British Honduras	18	14	20	19	15	22	23	26	22	33
British Malaya	19	42	33	..	..	..	..	..	..	..
British South Africa	14	8	6	3	10	4	11	4	1	45
British Oceania	3	1	..	26	..	..	..	2	..	1
British West Africa	195	198	176	145	138	149	112	79	51	72
British West Indies	13	12	8	11	21	39	39	47	41	71
Bulgaria	..	..	..	..	1	..	..	1	..	..
Canada	123	92	65	62	61	82	105	50	73	35
Canary Islands	35	42	35	31	14	12	12	23	8	27
Ceylon	10	..	..	..	..	..	..	..	..	..
Chile	15	21	45	30	24	18	46	17	1	3
China	1,175	825	608	506	220	1,246	2,575	833	105	16
Chosen	..	..	..	..	1	13	5	25	10	..
Colombia	138	154	86	122	64	60	51	36	19	45
Costa Rica	119	126	116	96	107	93	100	90	75	61
Cuba	1,266	1,148	1,239	1,146	1,198	1,187	1,090	1,090	1,066	1,388
Czechoslovakia	4	1	1	..	1	1	..	..	1	115
Denmark	482	462	507	321	215	177	232	196	319	34
Dominican Republic	120	123	113	109	86	81	82	103	82	130
Dutch East Indies	26	13	2	..	..	..	..	1	19	45
Dutch Guiana	34	27	31	36	31	32	26	23	35	29
Dutch West Indies	55	39	32	32	24	28	23	23	32	26
Ecuador	101	110	128	91	123	87	88	86	62	37
Esthonia	3	2	5	3	9	17	41	41	..	..
Far Eastern Republic	..	..	..	..	..	..	2	4	..	..
Egypt	235	181	221	359	258	140	243	228	182	1,047
Finland	346	384	471	452	432	486	773	474	415	269
France	4	5	11	9	1	3	9	10	15	274
French Africa*	40	24	22	16	20	20	13	10	6	236
French Guiana	7	5	6	6	11	11	15	14	19	22
French Oceania	21	23	23	24	20	24	21	17	12	3
French West Indies	135	89	113	78	97	127	143	105	93	132
Germany	409	341	656	657	1,085	1,862	1,247	1,497	1,726	1,078
Gibraltar	1	4	3	4	1	2	6	3	26	52
Greece	45	80	138	348	361	451	452	168	332	252
Greece in Asia	..	..	..	..	..	..	..	61	99	..
Guatemala	185	208	151	139	126	142	117	113	88	88
Haiti	277	411	265	279	238	350	380	221	139	361
Honduras	56	69	56	43	46	52	68	61	51	63
Hongkong	834	938	774	436	393	1,001	960	861	738	193
Iceland and Faroe Islds.	1	1	3	1	1	2	2	9	7	29
Irag	3	..	..	..	..	..	..	..	..	..
Italian Africa	..	..	..	..	..	..	..	..	..	6
Italy	26	21	19	15	50	109	95	49	56	1,410
Jamaica	56	61	114	117	143	161	188	165	196	201
Japan	277	64	25	19	36	110	258	346	382	107
Java and Madura	20	10	..	..	..	..	..	..	..	..
Jugoslavia	1	3	2	6	13	1	12	4	..	1
Kamerun	..	..	..	..	..	..	..	..	..	3
Kwangtung	905	193	128	165	286	516	587	429	153	8
Latvia	1	1	1	..	24	3	205	120	65	..
Liberia	1	3	1	1	1	1	1	1	1	2
Lithuania	..	1	1	1	..	..	4	..	..	..
Malta, Gozo, etc.	24	28	29	31	33	49	30	54	58	40
Mexico	122	81	88	206	201	388	436	295	353	243
Morocco	91	39	126	40	7	29	87	74	53	83
Netherlands	909	1,208	1,536	1,225	907	2,221	1,397	895	1,204	731
Newfoundland and Labrador	90	40	35	38	24	22	14	22	20	2
New Zealand	4	1	..	..	..	..	..	..	..	..
Nicaragua	79	88	80	67	71	74	62	47	41	51
Norway	336	226	340	267	165	187	136	241	413	161
Palestine and Syria†	46	31	48	32	42	13	37	60	50	..
Panama	116	105	99	95	94	87	87	85	119	101
Paraguay	..	..	..	..	..	..	..	..	..	..
Peru	109	109	103	130	82	68	96	101	52	85
Philippine Islands	778	769	626	610	564	702	504	416	255	143
Poland and Danzig	1	1	21	4	74	55	171	57	989	2,250
Portugal	4	3	4	1	1	4	3	3	2	2
Portuguese Africa	12	19	16	14	16	10	19	5	4	13
Roumania	..	..	..	..	1	..	..	..	..	..
Russia in Asia	3	2	1	1	5	..	..	..	50	175
Russia in Europe	1	..	..	2	290	..	2	385	171	211
Salvador	137	133	113	121	102	115	108	89	75	65
Spain	..	..	..	1	..	..	..	1	40	151
Spanish Africa	33	53	137	43	14	9	32	93	10	..
Sweden	114	93	80	52	63	88	147	111	243	141
Switzerland	..	..	..	..	8	..	..	2	..	12
Syria	43	86	..	..	..	..	..	..	..	..
Trinidad and Tobago	14	6	4	9	7	15	6	18	24	53
Turkey in Asia	..	..	..	..	..	..	1	1	124	163
Turkey in Europe	51	..	1	1	..	2	132	1,127	950	417
Ukraine	..	..	..	..	..	..	34	179	45	..
United Kingdom	1,317	873	1,438	1,439	1,210	..	..	..	..	..
England	..	..	..	..	..	962	686	958	1,900	2,233
Scotland	..	..	..	..	..	738	683	872	1,405	842
Ireland†	84	43	72	82	56	240	273	399	687	363
Venezuela	278	227	173	148	125	73	60	82	116	166
Virgin Islands	22	22	22	19	23	24	28	29	27	27
Totals	13,663	11,852	12,823	11,850	11,119	15,990	16,310	15,025	16,801	19,554

*Not elsewhere specified. †After 1924 Irish Free State is meant. ‡After 1927 Palestine also is meant.

UNITED STATES—WHEAT IMPORTS

Imports of wheat into the United States, by calendar years, as officially reported by the Department of Commerce, in bushels of 60 lbs (000's omitted):

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Canada	14,575	18,847	11,753	14,049	13,901	15,529	19,500	22,642	23,286	34,957
Argentina	..	..	..	..	..	..	..	..	..	695
Mexico	..	..	..	..	..	..	..	..	..	7
Kwangtung	..	..	..	..	..	..	..	..	..	56
Japan	..	..	..	1	..	..	..	..	..	3
England	..	..	1	1	..	5	2	..	..	53
Other countries	..	..	..	..	..	..	..	..	..	7
Totals	14,575	18,847	11,754	14,051	13,901	15,534	19,502	22,642	23,286	35,508

UNITED STATES—WHEAT EXPORTS IN 1930

Exports of wheat from the United States from Jan. 1 to Dec. 31, 1930, by countries of destination, as officially reported by the Department of Commerce, in bushels (000's omitted):

	Jan.	Feb.	Mch.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Belgium	204	235	[illegible]	419	207	448	1,115	1,781	843	150	115	4	[illegible]
Denmark	12	[illegible]	[illegible]	[illegible]	..	..	8	..	..	..	[illegible]	..	132
France	373	[illegible]	208	[illegible]	61	141	404	1,139	1,066	894	455	[illegible]	5,241
Germany	501	[illegible]	40	73	262	389	272	440	192	32	8	[illegible]	[illegible]
Greece	873	322	..	..	257	..	923	1,431	1,025	..	..	..	[illegible]
Azores	45	..	[illegible]	..	..	..	..	352	..	..	..	..	[illegible]
Italy	61	38	58	8	200	109	386	490	718	518	416	171	[illegible]
Netherlands	508	121	208	261	1,258	186	1,650	3,358	1,019	16	[illegible]	38	[illegible]
Sweden	..	..	..	..	..	..	16	8	..	[illegible]	..	..	[illegible]
U. Kingdom	2,215	1,933	208	850	974	1,866	3,754	5,248	4,585	874	334	251	23,111
Irish Fr. State	213	299	261	47	137	138	308	[illegible]	419	397	286	425	3,098
Canada	[illegible]	[illegible]	..	262	1,263	3,161	1,693	[illegible]	1,841	567	268	206	[illegible]
Mexico	94	186	275	141	286	209	901	18	39	51	115	153	[illegible]
Panama	1,241	287	..	564	278	532	295	1,079	..	1,143	246	..	5,665
Cuba	[illegible]	2	5	1	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	39
Colombia	[illegible]	21	23	[illegible]	[illegible]	22	31	[illegible]	7	14	[illegible]	[illegible]	224
China	67	20	..	..	..	3	..	..	35	737	216	417	1,524
Peru	..	..	..	..	..	..	..	..	..	19	..	..	19
Japan	840	1,098	632	319	242	517	[illegible]	217	609	560	758	560	6,402
Salvador	..	..	..	..	..	..	81	..	..	..	..	..	[illegible]
Egypt	..	..	..	..	..	266	..	..	..	..	..	..	[illegible]
Palestine	..	..	..	..	..	..	..	..	..	6	..	..	[illegible]
Norway	..	..	17	..	..	63	31	123	..	77	..	..	311
Portugal	921	241	..	..	..	..	..	..	..	..	..	..	1,162
Brazil	..	..	..	..	..	..	..	430	229	224	..	..	883
Malta, Gozo and Cyprus	..	..	..	..	..	..	..	..	12	..	..	..	[illegible]
Br. Oceania	..	..	..	..	..	..	..	226	..	..	..	..	226
Honduras	6	3	18	9	[illegible]	15	15	9	[illegible]	[illegible]	6	9	123
Other Fr. Af.	..	..	111	..	..	..	..	..	..	..	..	..	111
Oth. countries	..	3	[illegible]	..	3	5	..	[illegible]	3	3	..	38	58
Totals	8,245	5,181	2,414	3,050	5,133	8,066	11,034	18,616	12,716	6,311	3,266	2,713	87,978

UNITED STATES—WHEAT EXPORTS

Exports of wheat from the United States, with countries of destination, as officially reported by the Department of Commerce, by calendar years, in bushels (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921
Algeria	..	..	16	296	..	315	396	1,592	..
Australia	..	37	..	112	14	..	..	..	..
Austria and Hungary	..	..	..	..	3,398	[illegible]	..	..	8
Azores and Madeira Is.	11	[illegible]	603	23	32	[illegible]	[illegible]	21	192
Barbados	..	..	..	..	..	6	..	..	..
Belgium	5,596	2,926	11,571	6,696	7,190	11,612	7,383	12,959	22,470
Belgian Congo	[illegible]	..	..	..	..	..	..	..	..
Brazil	..	..	..	3,119	..	..	..	..	1,656
British India	..	15	..	..	..	..	..	157	1,807
British Malaya	..	..	..	233	..	..	..	..	..
British South Africa	[illegible]	[illegible]	70	70	..	..	..	..	[illegible]
Canada	23,068	37,173	[illegible]	26,327	18,853	50,414	24,540	29,724	25,991
Chile	..	1	..	379	40	..	..	..	..
China	[illegible]	167	303	795	391	2,187	6,483	1,598	1,173
Colombia	410	375	233	205	196	160	100	88	51
Costa Rica	..	..	57	..	..	..	..	[illegible]	[illegible]
Cuba	[illegible]	[illegible]	39	93	30	91	30	17	15
Czechoslovakia	87	..	1,998	16	..	..	..	..	..
Denmark	316	202	791	[illegible]	198	307	119	[illegible]	413
Dominican Republic	10	15	19	48	15	10	3	..	33
Ecuador	..	..	40	..	..	..	..	..	..
Egypt	..	55	..	276	..	..	..	..	37
Esthonia	..	..	..	..	..	..	74	57	..
Far Eastern Republic	..	..	..	..	..	..	[illegible]	183	..
Finland	..	..	..	61	41	..	60	..	..
France	1,824	2,190	11,832	8,925	7,946	7,090	5,439	13,022	8,988
French Africa	..	..	..	..	..	[illegible]	396	1,592	1,906
Germany	3,754	2,117	5,472	6,877	2,504	[illegible]	2,386	10,084	36,931
Gibraltar	..	1,147	[illegible]	175	520	531	62	1,621	4,565
Greece	6,292	4,030	4,135	2,028	..	3,621	265	653	4,116
Guatemala	171	..	..	..	..	..	..	..	..
Honduras	80	26	9	..	38	17	26	[illegible]	30
Hongkong	6	..	..	..	..	..	..	17	..
Italy	751	6,956	11,833	8,401	14,360	16,329	15,818	29,015	60,842
Japan	7,003	5,600	4,105	8,005	3,673	7,298	8,543	7,587	8,225
Jugoslavia and Albania	..	191	..	..	..	..	..	..	..
Kwangtung	[illegible]	..	..	..	..	67	33	..	..
Latvia	..	..	..	..	60	..	..	[illegible]	..
Malta, Gozo, etc.	214	15	[illegible]	266	[illegible]	101	198	[illegible]	348
Mexico	2,862	1,607	1,134	1,781	1,253	1,437	2,079	[illegible]	2,461
Morocco	..	13	..	..	..	..	128	..	126
Netherlands	4,156	5,499	14,013	14,710	5,993	11,036	6,433	13,026	25,228
Newfoundland and Labrador	13	..	..	55	..	95	..	..	..
New Zealand	..	..	..	211	..	..	3	..	..
Nicaragua	..	..	..	166	..	..	..	..	..
Norway	11	19	519	587	265	385	[illegible]	1,290	657
Palestine and Syria	151	150	..	11	19	..	..	[illegible]	..
Panama	4,853	3,923	2,266	2,502	298	1,928	812	466	271
Peru	146	1,006	800	759	..	303	19	295	961
Philippine Islands	..	..	33	..	..	..	..	..	..
Poland and Danzig	218	..	..	..	..	..	..	..	[illegible]
Portugal	288	555	337	..	..	417	..	251	[illegible]
Portuguese Africa	..	[illegible]	1	..	..	..	[illegible]	..	..
Russia in Asia	..	..	..	..	..	84	..	..	..
Russia in Europe	..	16	..	..	16	..	..	637	223
Salvador	74	..	75	41	..	..	15	..	..
Spain	1,177	2,212	30	57	709	350	..	243	4,348
Spanish Africa	..	..	..	..	..	..	..	[illegible]	..
Sweden	159	300	608	750	275	849	386	457	890
Switzerland	..	..	..	..	..	..	..	..	40
Turkey	161	318	123	[illegible]	209	784	138	270	195
England	*21,772	*11,222	*12,580	*37,897	*17,100	32,557	13,913	32,440	56,353
Scotland	..	..	..	..	..	1,535	1,053	1,039	2,265
Ireland	†3,249	†3,119	†3,569	†4,793	†428	3,705	1,468	4,391	5,055
Venezuela	..	..	..	..	..	..	3	..	..
All others	11	37	20	..	..	..	..	..	..
Totals	90,130	96,290	168,307	138,275	86,526	166,302	98,534	164,692	280,058

*Figures for United Kingdom. †Figures for Irish Free State.

UNITED STATES—BUCKWHEAT EXPORTS

Exports of buckwheat from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in bushels (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Belgium	29	[illegible]	11	..	[illegible]	5	..	19	[illegible]	[illegible]
British South Africa	..	..	..	..	..	..	11	..	..	..
Canada	19	19	18	5	[illegible]	[illegible]	..	9	20	[illegible]
Cuba	..	..	..	..	..	..	[illegible]	[illegible]	..	..
Denmark	..	..	..	[illegible]	..	..	13	1	13	[illegible]
Finland	..	..	3	..	..	..	..	..	..	..
France	..	..	..	..	..	..	..	..	..	[illegible]
Germany	16	19	40	6	..	..	..	3	[illegible]	[illegible]
Mexico	5	[illegible]	..	[illegible]	[illegible]	[illegible]	..	[illegible]	[illegible]	..
Netherlands	122	110	394	82	[illegible]	73	[illegible]	320	335	240
Spain	..	..	..	..	..	40	..	..	..	..
United Kingdom	..	..	..	..	..	..	..	..	8	..
Totals	191	161	465	101	110	122	50	344	423	300

WHEAT EXPORTS BY CUSTOMS DISTRICTS

Exports of wheat from the United States, by customs districts, as reported by the Department of Commerce, in bushels (000's omitted):

	Fiscal years				Calendar years					
From—	1926-27	1927-28	1928-29	1929-30	1925	1926	1927	1928	1929	1930
Maine and New Hampshire	..	..	..	551	..	[illegible]	..	..	..	551
Vermont	..	..	..	..	..	[illegible]	..	..	..	..
Massachusetts	216	[illegible]	..	139	99	178	149	64	..	331
St. Lawrence	..	..	..	..	..	..	..	..	..	65
Buffalo	..	8,601	7,725	659	5,840	2,139	9,439	5,365	[illegible]	1,702
New York	12,438	12,724	2,195	2,064	15,073	11,156	[illegible]	[illegible]	[illegible]	2,855
Philadelphia	6,383	3,092	221	[illegible]	12,201	4,742	[illegible]	[illegible]	241	629
Maryland	..	4,169	434	[illegible]	6,364	6,562	[illegible]	693	411	1,357
Virginia	1,135	881	[illegible]	[illegible]	38	399	1,619	..	103	1,386
Mobile	..	547	[illegible]	237	[illegible]	28	[illegible]	..	81	741
New Orleans	8,932	7,518	[illegible]	8,630	[illegible]	5,600	8,872	6,426	5,706	10,222
Sabine	..	389	[illegible]	[illegible]	955	589	[illegible]	520	[illegible]	[illegible]
Galveston	51,365	13,073	16,699	31,637	6,631	39,535	[illegible]	12,140	[illegible]	[illegible]
San Antonio	..	601	1,788	1,861	[illegible]	1,170	602	1,108	2,019	1,816
El Paso	..	[illegible]	2	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	11
Arizona	..	[illegible]	19	..	[illegible]	16	17	..	19	3
Los Angeles	..	[illegible]	[illegible]	18	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]
San Francisco	65	1,028	[illegible]	140	183	[illegible]	1,008	344	[illegible]	[illegible]
Oregon	28,363	38,899	[illegible]	21,207	7,651	[illegible]	37,273	22,951	20,070	[illegible]
Washington	6,470	9,532	4,880	4,638	1,405	7,132	7,893	6,204	4,543	3,333
Montana, Idaho	..	[illegible]	[illegible]	2,053	..	..	[illegible]	[illegible]	2,253	[illegible]
Dakota	..	..	..	[illegible]	..	[illegible]	..	..	[illegible]	..
Duluth-Superior	16,344	35,954	39,138	12,082	10,697	17,173	37,208	35,664	13,312	9,268
Wisconsin	..	810	..	249	[illegible]	662	895	..	249	..
Michigan	..	61	1,037	13	[illegible]	[illegible]	692	20	1,042	[illegible]
Chicago	6,419	6,708	54	[illegible]	[illegible]	[illegible]	7,529	..	[illegible]	1,061
Ohio	..	1,228	628	..	..	928	804	878	[illegible]	..
San Diego	..	..	..	..	..	..	..	..	..	8
Totals	136,250	116,011	104,765	92,077	86,517	138,127	168,084	96,288	91,957	87,879

UNITED STATES—COARSE GRAIN EXPORTS IN 1930

Exports of barley, corn, oats and rye from the United States in the calendar year 1930, as compiled from the monthly reports of the Department of Commerce, in bushels (000's omitted):

	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Barley—													
Belgium	53	16	2	5	5	..	12	56	191	34	50	61	485
Norway	..	80	..	..	..	..	..	106	..	..	..	..	186
Netherlands	..	..	..	..	65	1	..	..	8	..	..	..	[illegible]
Irish Free State	151	..	..	..	[illegible]	..	..	..	..	..	..	..	510
United Kingdom	331	706	355	570	[illegible]	366	532	948	1,023	1,091	781	410	[illegible]
Canada	..	..	[illegible]	8	..	..	..	[illegible]	..	[illegible]	..	..	19
Other Europe	..	..	..	..	..	..	..	..	..	..	..	[illegible]	[illegible]
Mexico	39	20	[illegible]	40	..	23	[illegible]	[illegible]	..	[illegible]	40	[illegible]	333
Others	..	1	..	1	1	4	[illegible]	1	..	..	[illegible]	1	[illegible]
Totals	571	823	391	624	1,207	397	554	1,143	1,222	1,170	879	889	9,873
Corn—													
Belgium	..	..	1	..	..	..	..	..	..	..	..	..	1
Germany	..	..	..	..	..	..	..	..	..	1	..	..	1
China	1	..	..	..	..	..	..	..	..	..	..	..	1
Netherlands	..	28	..	[illegible]	[illegible]	..	..	..	..	..	..	..	31
Costa Rica	..	..	[illegible]	..	1	1	1	1	..	..	..	1	[illegible]
Honduras	[illegible]	[illegible]	[illegible]	1	[illegible]	1	1	..	1	..	1	1	[illegible]
United Kingdom	..	..	[illegible]	[illegible]	1	..	..	..	..	..	..	..	[illegible]
Canada	704	631	884	663	420	[illegible]	215	294	[illegible]	135	[illegible]	31	4,615
Guatemala	1	[illegible]	..	1	..	..	1	1	1	..	..	..	[illegible]
Mexico	[illegible]	161	123	[illegible]	320	272	103	30	[illegible]	91	25	[illegible]	1,488
Jamaica	[illegible]	5	[illegible]	4	[illegible]	7	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]
Cuba	10	[illegible]	11	[illegible]	[illegible]	8	3	[illegible]	3	[illegible]	1	[illegible]	[illegible]
France	..	[illegible]	1	..	[illegible]	[illegible]	..	..	..	..	..	..	13
Others	[illegible]	[illegible]	10	[illegible]	3	[illegible]	[illegible]	3	[illegible]	[illegible]	2	[illegible]	53
Totals	752	855	1,047	954	[illegible]	708	330	249	319	235	107	50	6,370
Oats—													
United Kingdom	..	..	..	1	..	..	..	..	..	..	..	..	1
Canada	55	[illegible]	70	116	89	..	523	97	[illegible]	..	40	[illegible]	1,089
Mexico	[illegible]	8	3	[illegible]	[illegible]	3	[illegible]	2	..	1	1	7	36
Cuba	90	101	[illegible]	[illegible]	[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	246
Panama	..	7	1	1	1	1	1	1	1	[illegible]	1	3	26
Ecuador	..	[illegible]	[illegible]	..	..	[illegible]	..	..	..	..	..	..	[illegible]
Nicaragua	..	[illegible]	[illegible]	[illegible]	[illegible]	1	1	1	1	1	..	1	[illegible]
Honduras	3	9	11	1	9	[illegible]	1	[illegible]	[illegible]	1	1	[illegible]	53
Others	3	[illegible]	1	[illegible]	3	[illegible]	1	[illegible]	[illegible]	1	[illegible]	1	[illegible]
Totals	153	220	91	132	[illegible]	[illegible]	536	110	[illegible]	20	49	[illegible]	1,493
Rye—													
Denmark	..	..	..	25	9	..	17	..	24	..	..	..	75
Italy	..	..	..	..	..	..	..	..	..	[illegible]	..	..	40
France	..	..	..	..	..	..	..	17	..	..	..	..	17
Cuba	[illegible]	[illegible]	3	..	..	..	..	..	..	..	..	..	[illegible]
Mexico	..	[illegible]	[illegible]	[illegible]	1	..	..	..	..	..	..	[illegible]	15
Canada	[illegible]	25	47	16	..	..	..	..	..	..	..	..	[illegible]
Others	1	..	..	..	..	..	..	1	..	..	..	..	[illegible]
Totals	25	33	52	15	10	*..	17	13	24	10	*..	2	266

*Less than 500 bbls.

UNITED STATES—CORN EXPORTS

Exports of corn from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in bushels of 56 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921
Austria	43	..	..	..	..	..	..	..	..
Belgium	602	142	194	[illegible]	..	[illegible]	806	1,920	1,560
British Guiana	..	..	..	..	..	2	..	..	..
British Honduras	[illegible]	1	16	[illegible]	1	1	..	..	..
Canada	9,791	9,101	7,952	9,585	5,759	6,011	9,773	15,339	38,583
Costa Rica	132	192	39	18	111	15	..	..	..
Cuba	[illegible]	772	1,631	1,954	2,233	2,456	2,716	2,764	2,309
Czechoslovakia	..	..	..	..	..	..	76	..	..
Denmark	670	772	609	774	269	775	2,411	6,519	5,965
France	952	22	13	119	..	237	1,992	3,814	548
French Africa	..	..	..	..	..	..	..	60	127
Germany	3,635	2,765	310	529	224	698	5,191	30,283	12,729
Greece	..	..	..	..	..	..	292	..	14
Guatemala	517	1,039	[illegible]	[illegible]	15	[illegible]	20	25	[illegible]
Honduras	[illegible]	19	67	[illegible]	19	[illegible]	11	[illegible]	[illegible]
Italy	2,587	..	..	[illegible]	..	..	107	2,059	248
Jamaica	[illegible]	93	95	107	..	124	[illegible]	186	109
Mexico	354	429	1,058	4,212	2,413	789	129	3,351	11,872
Netherlands	6,064	6,222	589	2,855	719	2,218	7,177	21,729	17,813
Newfoundland	1	..	1	..	1	[illegible]	..	..	..
Nicaragua	[illegible]	19	[illegible]	[illegible]	9	19	..	..	..
Norway	[illegible]	121	..	203	..	[illegible]	495	1,318	95
Panama	[illegible]	[illegible]	[illegible]	[illegible]	12	12	..	..	..
Poland and Danzig	..	[illegible]	[illegible]	..	..	[illegible]	..	..	116
Portuguese Africa	..	..	..	..	..	[illegible]	..	..	..
Russia in Europe	..	..	..	..	..	..	..	5,876	..
Salvador	161	196	[illegible]	53	..	..	7	89	7
Spain	..	43	..	10	..	152	205	2,388	[illegible]
Sweden	[illegible]	..	..	..	..	31	69	662	792
Ukraine	..	..	..	..	..	..	..	2,837	..
England	*[illegible]	*[illegible]	*[illegible]	*[illegible]	*598	2,890	7,039	20,443	11,121
Scotland	†..	†..	†..	†..	†..	617	1,458	2,977	1,691
Ireland	341	26	..	..	..	423	1,478	5,240	2,999
West Indies‡	[illegible]	55	40	28	137	62	..	..	..
Other countries	[illegible]	111	[illegible]	176	[illegible]	3	..	..	..
Totals	33,745	25,800	13,428	23,064	12,762	18,346	41,971	163,609	128,975

*Figures for United Kingdom. †Included under England. ‡Not elsewhere specified.

UNITED STATES—FLOUR EXPORTS BY CUSTOMS DISTRICTS

Exports of wheat flour from the United States, by customs districts, as reported by the Department of Commerce, in barrels (000's omitted):

From—	Fiscal years				Calendar years					
	1926-27	1927-28	1928-29	1929-30	1925	1926	1927	1928	1929	1930
Maine and New Hampshire	..	..	..	..	..	1	..	..	..	..
Massachusetts	10	47	83	97	3	16	35	69	83	105
Buffalo	..	379	21	44	..	4	..	387	57	94
New York	5,046	4,568	5,340	5,006	4,928	5,042	4,303	4,466	5,258	5,102
Philadelphia	269	149	61	70	238	185	230	87	70	72
Maryland	..	334	49	212	284	495	465	158	183	216
Virginia	187	133	111	127	154	163	180	97	138	106
Georgia	..	1	3	21	..	..	1	1	9	20
Florida	..	32	47	55	8	9	27	28	59	44
Mobile	135	98	86	96	182	119	87	104	95	74
New Orleans	2,235	1,918	1,481	2,031	2,114	1,887	2,097	1,506	1,906	1,938
Sabine	..	42	6	13	2	30	63	34	9	29
Galveston	1,933	1,354	984	1,267	1,342	1,338	1,634	1,041	981	1,513
San Antonio	..	13	10	13	43	36	11	15	11	9
El Paso	..	19	16	20	13	10	10	11	20	18
Arizona	..	8	11	8	13	15	13	7	13	3
Los Angeles	..	7	15	14	24	10	8	9	15	8
San Francisco	394	421	492	439	237	320	312	486	460	403
Oregon	753	1,078	1,328	1,198	949	780	852	1,116	1,577	1,128
Washington	1,729	2,268	2,644	2,197	1,146	1,429	1,936	2,271	2,747	2,118
Alaska	..	..	1	..	..	..	..	1	..	..
Montana, Idaho	..	12	22	17	3	4	9	16	23	9
Dakota	..	..	1	6	..	..	..	..	4	2
Wisconsin	..	..	..	2	4	..	..	..	..	7
Michigan	..	10	40	31	11	20	11	37	29	15
Porto Rico	..	30	27	34	26	27	38	28	28	33
St. Lawrence	..	6	13	15	..	..	..	10	19	1
Utah and Nevada	..	..	2	..	..	..	..	..	2	..
San Diego	..	..	..	..	..	..	..	..	..	6
Totals	13,385	12,913	12,893	13,008	11,832	11,929	12,822	11,959	13,790	13,060

UNITED STATES—WHEAT AND FLOUR IMPORTS FROM CANADA

Wheat and flour imports from Canada, by months and calendar years, as reported by the Bureau of Foreign and Domestic Commerce:

WHEAT FLOUR, BBLS

	1923	1924	1925	1926	1927	1928	1929	1930
January	36,409	16,321	81	1,643	751	603	76	47
February	38,107	13,904	254	476	560	580	86	37
March	26,429	24,923	63	987	263	149	112	597
April	20,482	3,966	646	1,153	121	73	344	38
May	19,438	655	45	911	111	334	1117	58
June	17,665	1,212	296	2,350	1,803	520	296	62
July	18,191	1,471	129	1,114	99	367	40	32
August	18,273	2,877	417	123	52	51	68	30
September	13,696	426	261	313	89	116	112	37
October	19,383	42	2,653	89	392	375	112	366
November	20,116	93	3,984	174	363	183	256	428
December	19,218	128	2,092	30	141	128	128	55
Totals	267,290	64,717	10,741	9,363	4,748	3,543	1,647	1,832

WHEAT, BUS

	1923	1924	1925	1926	1927	1928	1929	1930
January	352,299	2,959,922	230,653	1,445,554	802,928	682,869	3,130,373	993,529
February	209,974	2,412,829	1,327,482	511,891	973,289	1,764,074	1,764,806	1,674,132
March	344,513	2,673,562	61,005	86,235	108,420	1,698,111	1,502,781	2,448,954
April	2,812,094	2,208,096	273,964	164,985	848,059	464,910	1,433,744	804,226
May	945,904	1,363,106	612,358	1,539,778	671,233	2,108,334	1,573,222	1,224,469
June	121,752	948,549	80,364	1,004,589	488,204	1,126,582	1,022,502	1,051,609
July	1,836,515	1,239,655	621,957	838,282	476,320	2,068,370	1,225,633	1,336,710
August	596,477	45,699	599,460	677,682	839,350	1,886,318	346,266	1,351,898
September	1,234,578	308,701	1,270,505	1,461,184	737,906	1,450,571	387,485	2,785,977
October	2,833,673	419,432	2,849,274	1,807,868	1,625,375	1,899,701	367,131	2,756,765
November	5,264,199	347,224	2,792,405	2,434,988	2,131,136	2,580,410	787,690	1,607,826
December	3,050,728	702,106	1,965,102	2,075,922	2,051,262	1,086,961	1,144,625	1,330,254
Totals	19,499,746	15,528,901	13,900,589	14,048,859	11,753,472	18,847,161	14,575,338	19,968,367

UNITED STATES—OATS EXPORTS

Exports of oats from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in bushels of 32 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919
Belgium	27	253	351	985	1,897	578	370	3,938	..	2,601	8,120
Brit. South Africa	..	..	2	29	..	..	..	..	..	..	..
Brit. West Indies	12	12	29	21	33	45	..	..	..	..	..
Canada	4,966	6,314	6,307	3,665	13,633	858	198	2,430	1,706	1,246	2,433
Cuba	726	900	1,165	956	1,457	537	1,067	1,100	918	1,606	2,126
Dominican Rep.	9	..	..	..	..	..	..	..	..	..	..
Denmark	..	..	..	..	..	..	..	50	..	..	2
Finland	11	..	..	..	..	..	..	..	..	..	..
Franco	130	12	77	1,260	3,617	81	121	5,904	18	6,276	14,186
Germany	..	70	133	1,340	2,613	190	..	1,831	..	..	70
Honduras	62	124	120	43	70	41	50	28	28	42	31
Italy	91	550	81	..	801	30	..	2,616	..	..	1,849
Mexico	45	64	116	148	113	92	139	162	187	39	20
Netherlands	12	778	288	1,090	504	957	130	4,187	67	499	2,820
Newfoundland and Labrador	..	8	10	7	5	..	7	73	39	123	24
Nicaragua	23	14	12	10	..	..	..	..	..	..	..
Norway	..	..	..	..	49	..	70	74	85	..	..
Palestine and Syria	..	..	13	14	..	..	..	..	..	..	..
Panama	42	37	30	42	35	13	19	20	30	37	69
Philippine Islands	..	..	..	8	14	1	22	16	23	49	53
Russia in Asia	7	..	..	..	..	..	..	..	..	..	..
Spain	..	..	..	24	65	..	..	..	8	..	..
Sweden	100	218	..	5	28	..	..	361	45	30	166
England	*317	*993	*1,324	*1,893	*3,816	399	899	6,176	..	135	19,540
Scotland	†..	†..	†..	†..	†..	108	63	666	1	..	1,039
Ireland	..	..	..	‡6	150	..	..	276	..	..	..
Other countries	19	74	30	25	353	23	..	..	..	14	..
Totals	6,609	10,421	10,052	11,574	29,443	3,953	3,155	30,011	3,224	12,878	55,294

*Figures for United Kingdom. †Included under England. ‡Irish Free State.

UNITED STATES—MILLFEED IMPORTS

Imports of bran, shorts and other wheat byproduct feeds, including feeds ground in the United States from bonded wheat, as reported by the United States Department of Commerce, in tons:

1930—	Withdrawn from bond	Direct importations				
		Canada	Argentina	Mexico	Others	Totals
January	8,845	122	298	332	122	9,719
February	....	74	2,395	282	97	2,848
March	11,596	787	3,001	272	95	15,751
April	14,263	1,588	6,777	213	31	22,872
May	7,118	1,275	7,220	175	1,392	17,180
June	27,921	8,860	8,642	275	1,789	47,487
July	....	16,082	12,369	189	5,465	34,105
August	4,545	14,101	11,939	270	3,690	34,545
September	.....	17,557	15,759	250	1,199	34,771
October	19,446	26,193	15,256	207	3,600	66,702
November	24,582	21,163	12,030	131	972	58,878
December	15,678	13,899	11,449	215	1,210	42,451
Totals	133,994	123,701	107,135	2,811	19,662	387,309
Previous years—						
1929	128,987	139,197	.....	4,389	340	272,863
1928	133,727	131,752	1,000	5,902	262	272,644
1927	104,970	76,771	3,000	3,180	148	188,069
1926	79,743	92,930	10,842	1,119	162	184,796

UNITED STATES—BREAD AND BISCUIT EXPORTS

Exports of bread and biscuit from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in pounds (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Argentina	1	4	2	..	6	3	6	4	2	2
Australia	24	36	20	29	32	81	61	17	1	2
Austria	28	..	..	..	100	30	..	..	..	..
Belgium	12	..	..	16	8	..	..	238	215	..
Bermuda	130	129	121	120	124	123	125	118	62	33
Brazil	11	6	4	5	1	1	1	1	2	6
British East Africa	5	..	26	34	33	45	..	..	..	..
British Guiana	4	2	7	7	17	25	42	7	3	11
British Honduras	145	130	135	148	166	135	127	105	139	186
British Oceania	16	65	24	95	58	37	98	13	53	120
British South Africa	149	44	138	63	80	127	109	123	185	67
British West Africa	..	1	2	1	1	3	5	102	10	237
Barbados	8	6	8	3	5	5	..	5	..	4
Jamaica	114	103	100	92	103	73	170	103	139	97
Trinidad and Tobago	25	36	44	62	207	157	145	306	285	37
Other British West Indies	135	114	151	166	279	512	510	476	93	114
Canada	2,031	2,240	2,031	1,902	2,563	1,832	1,469	1,836	1,014	1,255
Chile	2	2	6	2	2	1	..	..	21	3
China	318	308	247	312	343	242	237	148	95	122
Colombia	1,187	1,312	1,450	2,546	1,607	1,062	609	542	176	1,395
Costa Rica	141	124	131	162	185	122	76	59	37	117
Cuba	1,086	841	2,118	2,464	3,038	2,642	2,961	676	1,284	5,383
Denmark	..	..	..	1	..	..	..	..	..	22
Dominican Republic	328	372	472	482	725	631	433	262	407	779
Dutch East Indies	12	24	6	..	..	1	1	..	16	7
Dutch Guiana	25	32	41	61	99	92	114	84	55	101
Dutch West Indies	500	342	299	254	228	186	140	100	86	59
Ecuador	16	..	..	..	..	..	..	..	..	..
Egypt	23	10	..	3	26	17	..	..	..	..
Far Eastern Republic	..	..	..	..	..	..	26	37	..	..
Franco	25	34	19	39	26	60	19	8	4	26
French Africa	..	..	..	..	..	..	1	5	3	160
French Guiana	2	2	2	3	4	7	15	8	7	14
French Oceania	16	43	12	9	11	15	9	14	5	22
French West Indies	134	14	22	14	15	20	22	27	13	41
Germany	1	5	61	23	22	257	4	2	7	4
Greece	..	..	..	..	13	6	8	1	..	13
Guatemala	118	130	154	183	142	101	62	42	55	107
Haiti	63	85	86	152	170	97	98	64	84	169
Honduras	208	172	146	147	209	195	231	122	229	236
Hongkong	71	60	54	50	105	58	44	27	15	21
Iceland and Faroe Isl.	..	1	1	..	..	..	..	4	33	12
Italy	..	19	..	1	2	1	..	..	6	85
Japan	47	44	36	31	29	135	292	49	40	90
Kwantung	17	..	..	..	..	..	..	..	..	..
Mexico	336	536	719	1,322	1,363	1,198	803	673	1,020	1,543
Miquelon, etc.	..	..	..	..	1	4	5	17	8	4
Netherlands	..	..	..	4	3	7	3	4	46	9
Newfoundland and Labrador	45	41	45	36	111	53	68	1	2	3
Nicaragua	132	169	180	144	156	123	100	47	65	145
Norway	4	5	3	5	2	11	61	6	3	59
Palestine and Syria	6	1	5	52	50	70	101	4	30	..
Panama	730	608	605	555	611	455	417	258	427	417
Peru	53	37	45	76	56	56	42	23	13	59
Philippine Islands	698	441	117	141	212	85	48	37	15	104
Poland and Danzig	..	130	102	12	701	483	45	15	1,729	544
Portuguese Africa	6	6	9	9	7	18	30	15	19	20
Russia in Asia	7	47	19	9	23	2	1	12	63	84
Russia in Europe	..	..	..	1	1	..	2	..	..	2
Salvador	13	..	..	..	..	..	..	..	..	..
Sweden	4	5	8	9	19	8	17	5	2	126
Turkey	1	..	..	..	..	..	2	13	13	215
England	*405	*364	*370	*236	*472	313	386	297	230	2,739
Scotland	†..	†..	†..	†..	†..	2	..	..	..	..
Venezuela	911	788	921	1,519	1,296	845	603	457	299	664
Virgin Islands	58	59	60	63	86	84	59	100	99	76
Other countries	22	594	75	77	84	57	..	..	..	..
Totals	10,618	10,675	11,489	13,935	16,026	12,908	11,081	7,076	9,060	15,755

*Figures for United Kingdom. †Included under England.

UNITED STATES—BARLEY EXPORTS

Exports of barley from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in bushels of 48 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Algeria	..	..	..	363	..	..	..	..	..	..
Argentina	..	16	..	..	..	..	..	..	..	..
Austria	16	..	..	..	..	..	..	..	..	..
Belgium	871	1,522	1,876	546	2,631	1,089	224	1,896	2,984	3,469
Canada	10,709	21,625	10,560	2,004	5,477	703	4	2	52	206
China	368	4	2	..	11	1	..	..	..	..
Colombia	6	..	..	..	..	..	..	..	..	..
Cuba	122	49	..	..	1	3	2	1	1	2
Denmark	58	135	188	292	896	156	68	238	737	..
France	..	40	325	37	16	46	..	1,500	167	1
Germany	4,513	12,870	10,315	1,205	6,538	4,756	112	491	311	48
Greece	28	..	..	..	..	..	..	338	..	246
Hongkong	1	..	..	..	287	..	..	..	..	..
Japan	17	31	..	..	..	..	..	..	..	..
Jugoslavia	..	250	..	..	..	..	..	..	..	..
Mexico	152	469	188	222	143	192	195	175	309	106
Netherlands	2,020	3,286	2,305	264	1,225	2,072	134	1,140	1,807	558
Norway	117	70	324	460	588	498	251	611	845	68
Panama	1	..	1	..	4	..	1	342	..	927
Russia in Europe	..	..	..	..	4	..	..	1	2	..
Sweden	..	..	..	..	14	..	..	79	407	..
England	*10,125	*11,281	*11,705	*8,183	*10,753	9,785	9,463	10,101	16,298	10,098
Scotland	†..	†..	†..	†..	†..	1,197	1,198	1,762	1,745	2,993
Ireland	‡342	‡..	‡94	‡..	‡357	212	302	23	30	1,171
Uruguay	7	..	..	..	..	..	..	..	..	..
Venezuela	1	..	..	..	2	..	..	..	..	..
Other countries	18	29	49	10	114	..	..	5	93	..
Totals	29,623	51,677	37,972	13,586	29,058	20,712	11,954	18,781	25,834	17,851

*Figures for United Kingdom. †Included under England. ‡Irish Free State.

UNITED STATES—MACARONI IMPORTS

Imports of macaroni, vermicelli and all similar preparations into the United States during calendar years, by countries of origin, as officially reported by the Department of Commerce, in pounds (000's omitted):

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Belgium	..	..	..	5	7	2	..	..	..	..
Czechoslovakia	5	..	..	..	..	..	..	..	..	..
Netherlands	..	..	..	..	1	..	..	..	..	..
Italy	1,906	2,154	2,568	4,228	5,530	3,625	2,704	2,039	711	114
Spain	40	37	45	171	112	62	47	55	90	27
Switzerland	11	277	38	1	..	..	..	10	2	11
France	147	253	141	189	197	255	188	226	152	..
Germany	27	101	93	28	9	1	5	2	..	..
Greece	..	3	1	1	..	5	6	..	..	..
Hungary	..	1	2	2	1	1	..	4	..	..
United Kingdom	..	..	..	..	4	..	..	..	..	..
Canada	2	..	2	4	3	5	3	26	5	2
Cuba	..	..	23	..	..	..	..	..	..	..
China	34	46	5	42	13	13	8	2	8	3
Hongkong	432	327	381	301	283	301	260	276	289	239
Japan	251	232	246	252	264	260	255	257	330	378
All others	1	3	7	..	..	..	..	..	..	..
Totals	2,856	3,434	3,512	5,235	6,409	4,535	3,476	2,917	1,587	805

United States—Calendar Year Exports

Exports of wheat, flour and coarse grains, by calendar years:

WHEAT AND FLOUR EXPORTS

	Flour, bbls	Wheat, bus
1930	13,059,618	87,773,601
1929	13,863,457	90,129,600
1928	14,852,805	96,290,000
1927	12,826,000	168,307,000
1926	11,850,000	138,164,000
1925	11,119,058	86,526,940
1924	15,930,000	106,302,000
1923	16,309,856	98,524,405
1922	15,024,628	164,691,565
1921	16,800,805	280,057,601
1920	19,353,952	218,287,000
1918	21,706,700	111,177,103
1919	26,449,681	148,086,470
1917	13,926,117	106,196,318
1916	14,379,000	154,049,686
1915	15,662,000	205,906,000
1914	12,765,073	173,861,544
1913	12,278,206	99,508,968
1912	10,622,000	61,655,000
1911	11,268,000	32,669,000
1910	8,370,000	24,257,000
1909	9,688,000	48,490,000
1908	13,013,000	92,780,000
1907	15,277,000	91,384,000
1906	14,324,000	62,851,000
1905	11,344,000	20,739,000
1904	11,543,000	13,015,000
1903	19,555,000	73,373,000
1902	18,328,000	129,466,000
1901	19,200,000	178,300,000
1900	18,500,000	98,500,000
1899	18,500,000	108,700,000
1898	16,600,000	149,200,000

COARSE GRAIN EXPORTS

(In bus, 000's omitted)

	Corn	Oats	Rye	Barley
1930	6,369	1,501	260	9,374
1929	33,745	6,609	3,434	29,533
1928	25,799	10,421	14,409	51,676
1927	13,428	10,053	35,941	37,973
1926	23,064	11,396	11,941	13,569
1925	12,762	29,443	28,675	23,089
1924	18,936	3,983	35,666	20,179
1923	42,188	3,227	30,850	11,983
1922	163,609	30,011	47,260	18,781
1921	128,975	3,224	29,812	25,834
1920	17,761	12,878	57,070	17,854
1919	11,193	55,295	82,898	37,612
1918	39,899	114,463	7,632	18,805
1917	62,170	98,889	13,412	17,859
1916	53,548	101,411	15,161	22,486
1915	48,264	104,572	13,156	26,529
1914	15,626	35,067	7,847	18,208
1913	45,287	5,275	1,995	12,782
1912	30,980	30,374	474	8,195
1911	61,573	2,126	5	3,555
1910	42,693	1,931	19	8,263
1909	36,206	1,272	368	4,589
1908	37,578	1,205	2,747	6,671
1907	83,201	1,746	1,342	5,444
1906	102,519	25,480	1,073	14,528
1905	111,266	28,822	470	13,769
1904	46,499	1,220	94	8,485
1903	91,733	1,495	2,758	9,800
1902	18,724	5,969	4,855	8,713
1901	102,400	25,900	2,600	8,700
1900	190,400	32,200	2,000	12,300
1899	206,100	41,100	4,900	16,900
1898	207,300	49,900	15,700	4,500

United States—Flour and Wheat Exports

Exports of flour and wheat from the United States by crop years ending June 30, with percentages of total shipped as flour, based on the reports of the Bureau of Foreign and Domestic Commerce (flour in terms of wheat at 4½ bus to the bbl):

	000's omitted		Per ct.
	Flour, bbls	Wheat, bus	as flour
1929-30	13,008	92,176	39
1928-29	12,888	103,114	36
1927-28	12,821	145,999	28
1926-27	13,386	156,250	28
1925-26	9,542	63,189	40
1924-25	13,896	195,490	26
1923-24	17,253	78,793	50
1922-23	14,883	154,951	30
1921-22	15,798	208,321	25
1920-21	16,181	293,268	20
1919-20	21,651	122,431	44
1918-19	24,182	178,583	38
1917-18	21,880	34,119	74
1916-17	11,943	149,831	36
1915-16	15,521	173,274	29
1914-15	16,183	259,643	28
1913-14	11,821	92,394	37
1912-13	11,395	91,603	30
1911-12	11,006	30,160	62
1910-11	10,129	23,729	66
1909-10	9,041	46,680	47
1908-09	10,521	66,923	44

London—"The Baltic"

The principal wheat trading exchange in London is known as "The Baltic," in St. Mary Axe. The name in full of this exchange is "The Baltic, Mercantile & Shipping Exchange, Ltd." In connection with it the wheat cargo business in London is principally carried on. It is not a public exchange, and only actual members may make use of it. The membership of "The Baltic" is large, including those interested in shipping, grain, insurance and various other trades.

A wheat option market also operates on "The Baltic," the grades of wheat deliverable on contract being as follows:

No. 3 northern Manitoba (Dominion inspection); No. 2 hard winter (federal inspection); 62½ lbs Bahia Blanca, Barletta and/or Russo, f.a.q; 63½ lbs Barletta and/or Russo, Buenos Aires or La Plata, f.a.q; 62½ lbs Rosafé, f.a.q; Karachi choice white, f.a.q. The following grades are deliverable at a premium: No. 1 northern Manitoba, 2s premium per qr (480 lbs); No. 2 northern Manitoba, 1s premium per qr; Australian (official standard), 1s premium per qr.

UNITED STATES—RYE EXPORTS

Exports of rye from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in bushels of 56 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921
Austria	..	..	..	..	..	..	42	26	..
Belgium	..	53	446	96	739	592	195	316	312
Canada	2,825	8,856	25,996	8,175	9,394	23,661	6,005	13,761	7,143
China	43	..	..	..	..	..	..	..	..
Cuba	6	4	2	..	..	..	..	..	..
Denmark	211	463	628	522	559	591	1,007	1,015	333
Esthonia	..	..	..	..	..	..	19	339	..
Finland	59	151	122	82	997	274	587	1,544	1,105
France	23	..	344	90	38	222	205	216	351
Germany	94	913	1,918	585	6,175	6,290	11,509	12,628	9,443
Gibraltar	..	..	..	..	..	..	..	..	357
Greece	..	..	..	..	..	..	..	..	..
Italy	..	..	..	..	..	..	187	377	..
Latvia	..	..	..	13	107	31	17	d	1,132
Mexico	..	..	..	14	223	210	..	..	..
Netherlands	25	6	10	22	4	2	17	..	..
Norway	21	1,220	2,088	810	3,189	2,685	5,303	7,186	3,422
Poland and Danzig	61	96	700	1,315	2,202	1,882	4,233	5,208	5,006
Russia in Europe	..	60	..	..	71	..	..	..	1,210
Spain	..	..	..	..	1,373	4	..	3,551	58
Sweden	17	288	91	..	331	664	493	131	447
Switzerland	..	17	..	..	..	16	..	..	..
Turkey in Europe	..	..	150	..	..	..	..	..	..
England	*21	*1,611	*3,418	*314	*257	27	360	163	124
Scotland	†..	†..	†..	†..	†..	115	441	366	744
Ireland	..	..	..	..	..	..	86	..	142
All others	1	1	1	..	..	..	..	..	..
Totals	3,434	14,199	35,941	11,911	28,675	35,666	30,850	47,260	29,812

*Figure for United Kingdom. †Included under England.

PACIFIC NORTHWEST—FLOUR AND WHEAT SHIPMENTS

WASHINGTON SHIPMENTS

Shipments by water from Puget Sound (Seattle and Tacoma), with destinations, by fiscal years ended June 30, as reported by the Merchants' Exchange, Seattle:

FLOUR, BBLS

	*1930-31	1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24
Orient	1,041,021	1,824,738	2,318,895	1,601,036	1,299,436	856,725	916,742	2,822,547
California	285,547	345,841	431,701	321,509	251,361	463,755	563,436	944,111
S. and C. Amer.	64,966	171,385	183,987	232,632	285,211	270,000	145,000	219,732
Europe	100,104	148,425	115,911	227,333	115,832	50,300	165,567	78,453
Atlantic Coast, United States	129,401	197,997	282,709	251,297	230,164	185,005	37,016	71,247
Hawaii	53,063	120,373	121,483	112,607	104,298	75,875	93,454	112,235
Brit. Columbia	5,969	41,620	41,400	40,209	33,063	30,915	26,782	21,450
Alaska	20,804	52,535	10,160	57,332	47,281	46,305	36,402	26,774
New Zealand	.....	.....	.....	.....	510	.....	.....	.....
Brazil	.....	300	.....	10,890	.....	.....	.....	.....

*First six months, July 1, 1930, to Jan. 1, 1931.

WHEAT, BUS (000'S OMITTED)

	*1930-31	1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24
Europe	266	1,020	2,989	6,664	3,153	1,140	2,244	1,100
California	483	824	712	1,146	472	163	306	765
South America	19	8	169	115	319	24	8	..
Orient	1,793	3,208	1,673	2,650	3,122	1,944	1,161	5,326
Hawaii	30	19	67	64	63	51	85	59
British Columbia	8	379	74	120	88	48	32	16
Africa	..	..	..	97	267	..	..	..
Mexico	..	..	..	..	..	10	..	..
Atlantic U. S. ports	..	..	223	31	2	..	..	..
India	..	..	15	..	..	..	..	..

*First six months, July 1, 1930, to Jan. 1, 1931.

OREGON SHIPMENTS

Shipments by water from Oregon ports, with destinations, by fiscal years ended June 30, as reported by the Merchants' Exchange, Portland:

FLOUR, BBLS

	*1930-31	1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24
Orient	752,163	1,166,816	1,251,002	1,002,000	576,392	723,570	300,687	2,671,133
California	435,209	939,281	935,480	972,187	716,615	681,210	538,567	706,631
S. and C. America	48,868	82,472	83,776	74,709	117,678	120,970	89,220	64,978
Europe	23,516	45,785	31,275	65,014	77,230	108,060	395,099	109,926
Atlantic Coast, United States	178,509	333,113	439,928	323,217	293,713	385,215	272,002	115,892
Hawaii	7,510	16,421	9,880	15,932	13,929	22,200	13,485	2,305
West Indies	..	2,042	30	4,069	3,510	..	..	..
Africa	1,572	..	..	..	..	..	..	..

*First six months, July 1, 1930, to Jan. 1, 1931.

WHEAT, BUS (000'S OMITTED)

	*1930-31	1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24
Europe	9,933	11,966	18,756	35,912	21,441	14,358	10,562	12,655
California	1,277	656	155	369	982	2,664	2,285	1,558
Hawaii	11	4	1	1	1	1	1	..
South America	36	91	634	689	1,116	6	..	..
South Africa	..	..	..	..	193	..	..	..
Orient	2,616	6,121	3,549	3,578	5,065	3,136	2,710	..
British Columbia	..	..	..	..	..	..	..	12,186
Mexico	..	..	..	..	..	..	..	6
Atlantic Coast, U. S.	17	36	313	28	26	68	..	..
Australia	..	..	..	..	35	..	..	..

*First six months, July 1, 1930, to Jan. 1, 1931.

Rosenbaum Grain Corporation

Grain Merchants... Exporters... Importers

332 SO. LA SALLE STREET
CHICAGO, ILLINOIS

Cash and Futures Private Wires

Flour and Wheat Imports

Imports of wheat flour and wheat into the United States, as reported by the Bureau of Foreign and Domestic Commerce:

Calendar years—	Flour, bbls	Wheat, bus
1930	1,872	19,968,307
1929	1,944	14,575,503
1928	5,866	18,847,660
1927	5,453	11,753,541
1926	9,656	14,142,761
1925	11,384	13,901,127
1924	64,971	15,534,206
1923	268,031	19,501,706
1922	694,089	25,642,709
1921	965,954	23,286,024
1920	800,788	35,808,656
1919	16,623	7,910,000
1918	167,124	17,036,000
1917	642,435	33,583,000
1916	185,000	8,572,000
1915	244,000	4,052,000
1914	79,000	1,714,000
Crop years—		
1929-30	1,693	12,238,000
1928-29	2,603	21,429,774
1927-28	2,739	15,706,734
1926-27	1,743	13,235,260
1925-26	17,405	15,592,187
1924-25	6,718	8,189,193
1923-24	169,138	27,263,905
1922-23	429,429	18,012,540
1921-22	619,105	14,465,509
1920-21	1,420,894	51,004,021
1919-20	159,056	4,779,764
1918-19	37,110	11,151,161
1917-18	675,096	28,177,000
1916-17	174,704	24,138,000
1915-16	329,905	5,703,000
1914-15	64,200	426,000
1913-14	89,911	1,579,000

Crop Year Grain Imports

Imports of corn, oats and macaroni by crop years ended June 30, as reported by the Bureau of Foreign and Domestic Commerce:

	Bus, 000's omitted		Macaroni, lbs
	Corn	Oats	
1930	482	135	2,700,147
1929	450	398	3,024,000
1928	5,463	202	3,516,000
1927	1,098	8	4,122,000
1926	635	185	5,747,000
1925	4,617	3,041	6,191,358
1924	228	4,241	5,569,541
1923	138	293	1,253,941
1922	125	1,733	1,191,933
1921	5,743	3,736	1,297,365
1920	10,229	6,044	800,210
1919	3,311	344	891,804
1918	3,196	2,515	669,534
1917	2,247	762	3,472,507
1916	5,208	665	21,789,602
1915	9,898	631	56,542,180
1914	12,367	22,574	128,128,621
1913	903	724	106,500,752
1912	.....	2,623	104,231,028
1911	.....	197	114,779,114
1910	.....	1,035	113,772,801
1909	.....	6,667	83,114,093

Rye Flour Exports—Crop Years

Exports of rye flour from the United States by crop years ended June 30, as reported by the Bureau of Foreign and Domestic Commerce, in barrels:

1930	10,278	1920	677,946
1929	23,547	1919	1,467,477
1928	47,191	1918	896,049
1927	11,059	1917	73,918
1926	23,676	1916	119,619
1925	41,903	1915	89,315
1924	366,193	1914	8,293
1923	41,903	1913	5,295
1922	43,375	1912	1,304
1921	267,069	1911	6,259

United States—Imports of Canadian Wheat

The United States Department of Commerce reports imports of Canadian wheat at the principal northern border ports as follows, in bushels:

	July 1, 1927-June 30, 1928	July 1, 1928-June 30, 1929	July 1, 1929-June 30, 1930
Duty paid	145,000	74,000	45,000
For milling in bond	16,918,000	21,520,000	12,193,000
Totals	17,063,000	21,594,000	12,238,000

Canada—Terminal Shipments

Grain shipped from Fort William and Port Arthur by crop years ended Aug. 31, including all-rail and lake shipments (000's omitted), in bushels:

	Wheat	Oats	Barley	Flax-seed
1929-30*	146,319	19,563	7,332	1,025
1928-29*	297,767	24,375	41,809	3,012
1927-28*	259,247	20,238	25,467	4,085
1926-27*	242,802	13,171	36,272	4,521
1925-26*	258,542	35,831	35,926	2,929
1924-25*	162,834	33,756	28,491	6,710
1923-24	241,912	51,206	15,955	4,666
1922-23	248,241	26,236	15,806	3,688
1921-22	188,553	41,057	12,079	1,613
1920-21	141,019	45,300	11,636	3,750
1919-20	92,882	24,765	8,236	1,389
1918-19	27,181	13,687	19,481	3,163
1917-18	117,162	29,516	6,729	4,168
1916-17	152,075	64,900	7,761	6,751
1915-16	279,881	75,229	9,854	5,190
1914-15	86,275	18,349	2,721	4,502
1913-14	133,453	43,706	10,925	11,785
1912-13	107,935	23,558	9,962	16,776
1911-12	107,944	28,206	3,236	5,526
1910-11	71,312	21,230	1,763	2,850
1909-10	71,309	22,538	2,949	3,575
1908-9	58,193	15,048	2,499	2,032
1907-8	47,521	11,096	1,572	1,515
1906-7	54,850	12,745	1,839	753

*Crop year ending July 31.

UNITED STATES—OATMEAL AND ROLLED OATS EXPORTS

Exports of oatmeal and rolled oats from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in pounds (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921
Argentina	2,725	2,824	2,595	1,971	1,964	1,675	1,345	946	702
Australia	111	87	128	105	153	125	145	105	63
Austria	30	61	..	121	..	..	..	..	..
Barbados	13	17	21	13	14	15	10	26	69
Belgium	1,331	3,169	3,447	5,992	6,973	4,720	4,239	2,815	2,013
Bolivia	312	308	218	288	..	..	..	..	..
Brazil	2,254	1,956	1,438	1,170	809	761	584	472	118
British East Africa	128	121	111	104	..	..	..	..	..
British Honduras	45	..	..	..	..	..	..	..	..
British India	1,459	1,713	1,612	1,645	1,343	1,463	1,181	1,141	432
British Malaya	696	..	..	..	..	..	..	..	..
British South Africa	360	400	440	636	346	703	377	250	151
British West Africa	271	237	297	258	211	198	163	149	67
Jamaica	381	317	312	326	317	216	268	219	206
Trinidad and Tobago	201	151	137	132	122	89	92	95	65
Other Brit. West Indies	96	100	115	53	44	201	197	46	64
Canada	4,545	1,922	4,312	5,949	3,641	884	1,696	923	1,414
Chile	23	39	90	41	149	137	121	53	39
China	557	754	519	1,246	617	414	348	363	186
Colombia	2,042	1,764	1,295	1,280	763	535	381	276	118
Costa Rica	384	325	286	296	290	183	124	97	56
Cuba	667	335	507	641	484	467	506	253	188
Czechoslovakia	..	..	..	5,353	188	..	144	11	..
Denmark	1,402	4,254	2,068	..	5,800	3,416	12,902	14,080	9,919
Dominican Republic	190	162	135	117	..	..	..	..	..
Dutch East Indies	932	861	839	769	543	653	391	499	92
Dutch Guiana	..	128	157	190	87	82	80	84	58
Dutch West Indies	235	149	71	115	..	..	..	..	..
Ecuador	402	280	374	235	..	..	..	..	..
Egypt	226	212	214	237	216	151	183	138	147
Esthonia	99	13	365	94	3	4	87	1	347
Finland	14,944	14,958	6,927	17,277	21,703	5,542	13,203	1,680	6,081
France	14	708	1,124	893	823	610	718	498	323
Germany	216	283	606	327	866	473	869	648	218
Greece	84	63	81	35	31	32	13	11	36
Guatemala	217	249	200	152	..	..	..	..	..
Honduras	445	362	311	289	281	230	263	235	154
Hongkong	1,742	1,166	1,031	452	751	1,026	1,337	761	301
Iceland and Faroe Isl.	164	264	18	264	296	32	487	1,294	132
Irish Free State	1,660	1,215	225	3,148	13,825	..	..	..	..
Italy	74	1	38	42	81	38	69	35	13
Japan	297	272	186	364	266	188	204	164	87
Lithuania	..	597	..	..	..	..	..	..	..
Mexico	3,971	3,555	3,903	4,311	3,412	3,191	2,176	1,755	1,523
Mozambique	87	78	93	66	..	..	..	..	..
Nicaragua	241	..	..	..	..	..	..	..	..
Netherlands	10,189	12,589	10,292	32,892	27,676	21,442	24,525	19,042	22,810
Newfoundland and Labrador	808	635	709	870	928	432	811	340	54
Norway	108	34	..	204	52	44	359	330	1,344
Palestine	125	103	140	108	..	..	..	..	..
Panama	680	484	594	599	479	382	348	293	321
Peru	1,662	1,040	1,002	1,011	854	388	288	355	65
Philippine Islands	691	536	653	404	372	261	301	239	88
Poland and Danzig	3	..	184	43	65	272	315	13	414
Russia in Europe	..	..	1	1	22	..	..	66	448
Salvador	137	..	..	..	..	..	..	..	..
Spain	28	13	66	38	..	..	..	..	..
Straits Settlements	..	615	707	866	694	318	242	445	70
Sweden	1,084	1,220	262	2,145	8,150	3,853	14,791	2,710	7,234
Switzerland	274	157	10	52	809	739	..	..	..
United Kingdom	16,952	17,773	12,717	37,296	41,041	..	..	..	..
England	..	..	..	..	..	15,584	43,914	35,714	23,458
Scotland	..	..	..	..	..	1,982	10,102	4,985	1,289
Ireland	..	..	..	..	..	7,581	18,566	17,926	14,702
Uruguay	1,508	1,108	1,207	1,127	910	493	766	302	550
Venezuela	898	610	487	608	351	219	154	99	80
Other countries	1,351	759	820	672	1,770	1,003	..	..	..
Totals	81,246	84,074	66,562	140,900	151,664	83,446	159,975	114,123	98,839

UNITED STATES—CROP YEAR EXPORTS

Exports of wheat, flour and coarse grains, by crop years, as reported by the United States Bureau of Foreign and Domestic Commerce:

WHEAT AND FLOUR EXPORTS			COARSE GRAIN EXPORTS (In bus. 000's omitted)				
Years ending June 30—	Wheat, bus	Flour, bbls	Years ending June 30—	Barley	Corn	Oats	Rye
1930	92,176,000	13,008,000	1930	21,546	9,355	4,635	2,556
1929	103,113,651	12,888,042	1929	56,996	40,749	10,846	9,346
1928	145,998,768	12,821,243	1928	36,581	18,390	6,034	26,046
1927	150,249,930	13,385,025	1927	17,044	17,563	9,245	21,613
1926	63,188,602	9,541,800	1926	27,182	23,137	30,975	12,506
1925	195,490,307	13,896,343	1925	23,663	8,460	10,874	49,909
1924	178,793,034	17,252,630	1924	11,209	21,186	1,149	17,705
1923	154,950,971	14,882,714	1923	18,501	93,146	18,790	50,227
1922	208,321,091	15,796,824	1922	22,400	176,410	15,767	29,904
1921	293,267,637	16,179,956	1921	20,457	66,911	4,302	45,736
1920	122,430,724	21,661,961	1920	26,571	14,468	33,945	37,463
1919	378,582,673	24,181,979	1919	20,468	16,688	90,361	27,540
1918	34,118,863	21,879,951	1918	26,285	40,997	105,837	11,990
1917	149,831,427	11,942,778	1917	16,381	64,720	88,944	13,260
1916	173,274,016	15,520,669	1916	27,473	38,217	95,918	14,532
1915	259,642,533	16,182,765	1915	26,764	48,786	90,809	12,544
1914	92,893,775	11,821,461	1914	6,645	9,381	1,860	2,223
1913	91,602,974	11,394,805	1913	17,537	49,065	33,759	1,823
1912	30,160,212	11,006,487	1912	2,585	40,039	2,172	5
1911	23,729,302	10,129,435	1911	9,399	63,671	2,045	2
1910	46,679,876	9,040,987	1910	4,312	36,802	1,685	220
1909	66,923,244	10,521,161	1909	6,580	35,853	1,510	1,272
1908	100,371,057	13,937,247	1908	4,349	52,445	1,158	2,419
1907	76,569,423	15,584,667	1907	8,238	83,300	4,014	749
1906	34,973,291	13,919,048	1906	17,753	117,718	46,324	1,365
1905	4,384,402	8,826,335	1905	10,661	88,807	5,478	1
1904	44,230,169	16,999,432	1904	10,881	55,858	1,154	765
1903	114,381,420	19,716,484	1903	8,429	74,833	4,613	5,422
1902	154,856,000	17,759,000	1902	8,724	26,036	9,971	2,097
1901	132,061,000	18,651,000	1901	6,293	177,817	37,046	2,326
1900	101,960,000	18,699,000	1900	23,661	209,348	41,369	2,356
1899	139,433,000	18,486,000	1899	2,267	174,089	30,310	10,141
1898	148,231,000	15,360,000	1898	11,337	208,745	69,130	15,541
1897	79,562,000	14,570,000	1897	20,030	176,916	35,096	8,560
1896	60,650,000	14,621,000	1896	7,680	99,992	13,012	988
1895	76,103,000	15,269,000	1895	1,563	27,691	670	9
1894	88,415,000	16,860,000	1894	5,219	65,324	5,740	231
1893	117,121,000	16,620,000	1893	3,035	46,034	2,380	1,477
1892	157,280,000	15,197,000	1892	2,800	75,451	9,435	12,040
1891	56,131,948	11,344,304	1891	973	30,768	953	332
1890	64,387,767	12,231,711	1890	1,408	101,973	13,692	2,257

UNITED STATES—OATS IMPORTS

Imports of oats into the United States during calendar years, by countries of origin, as officially reported by the Department of Commerce, in bushels of 32 lbs (000's omitted):

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Argentina	..	..	..	..	..	60	20	..	..	332
Canada	109	485	79	154	177	6,904	282	1,288	3,563	6,389
Japan	..	..	..	..	..	..	..	6	..	..
Mexico	1	..	..	..	..	..	..	3	..	..
Sweden	2	4	6	3	1	..	1	2	2	1
United Kingdom	..	..	..	..	..	..	..	..	..	2
Other countries	..	..	..	..	..	..	14	..	..	4
Totals	112	489	85	157	178	6,964	317	1,299	3,565	6,728

UNITED STATES—JUTE AND BURLAP IMPORTS

Imports of jute, jute bags and burlap by calendar years, as officially reported by the Department of Commerce:

JUTE AND JUTE BUTTS, TONS

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921
British Malaya	194	..	..	756	..	..	..	..	..
Belgium	103	221	..	132	..	..	..	..	..
France	121	11	..	27	15	..	..	..	..
Germany	48	221	*120	426	560	61	867	318	293
England	*130	*20	76	*369	*183	3	132	3,451	
Italy	..	..	..	135	..	..	..	434	220
Scotland	†	†	†	†..	†..	469	706		
China	333	338	522	601	10	..	35	491	244
India	87,001	89,230	91,163	66,112	63,612	67,270	81,914	72,400	60,869
British East Indies	..	..	..	..	..	..	89		
Dutch East Indies	..	..	..	..	..	..	..	105	520
Philippine Islands	..	..	..	..	..	..	..	197	248
British East Africa	..	..	..	..	..	..	..	391	
Other countries	..	18	235	205	171	95	249	142	124
Totals	87,819	90,049	92,415	68,763	64,551	67,904	83,982	77,939	62,416

JUTE BAGS, POUNDS (000'S OMITTED)

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921
Denmark	..	..	..	..	..	..	2	..	..
France	1	..	70	..	1	..	..	..	2
Germany	7	234	246	8	39	1	7	2	1
Italy	..	..	..	..	..	12	..	1	..
Netherlands	..	1	156	1	67	1	..	28	..
Belgium	..	118	603	..	1	1	2	..	..
Norway	..	..	..	1	2	..	53	..	..
Latvia	..	..	..	..	..	..	3	..	..
Roumania	..	..	..	..	..	..	..	..	4
Spain	..	..	..	..	..	..	..	..	..
England	*28	*86	*293	*428	*1,036	68	1,227	3,333	5,030
Scotland	†..	†..	†..	†..	†..	216	439	710	241
Canada	*66	33	84	42	343	231	154	55	156
Panama	..	1	..	..	..	9	..	..	..
Mexico	3	1	68	..	9	45	3	2	1
Guatemala	..	..	1	..	..	..	..	..	..
Colombia	..	..	2	2	4	2	..	..	..
Cuba	43	691	93	64	7	..	100	2	160
Virgin Islands	..	..	..	..	..	..	23	..	..
Brazil	..	..	1	..	..	22	2	1	..
Dominican Republic	62	19	37	16	..	110	123	139	26
Dutch West Indies	..	..	..	..	..	..	..	..	5
Argentina	..	..	..	..	34	6	..	..	..
Chile	1	..	..	..	..	..	..	..	..
China	..	21	64	..	149	..	..	..	..
India	32,006	40,004	36,654	46,410	46,036	34,615	36,950	44,852	59,433
Ceylon	1	2	2	..	..	..	..	..	..
Straits Settlements	..	..	..	196	..	..	..	..	..
Other Br. East Indies	..	..	..	..	..	2	53	..	..
Dutch East Indies	..	..	150	..	..	..	..	..	3
Hongkong	..	1	57	66	..	..	3	20	169
Japan	..	941	214	112	102	66	633	401	14
Kwangtung	..	..	..	16	237	..	299	169	..
Australia	..	..	..	..	6	..	..	..	..
Totals	32,198	42,189	38,794	47,395	48,070	35,413	40,078	50,205	65,250

BURLAPS, POUNDS (000'S OMITTED)

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921
Belgium	3,006	6,793	3,213	969	117	1,404	1,988	1,817	1,393
France	10	263	69	1	71	1	50		672
Russia	..	..	..	..	..	2	..	..	..
Germany	12,995	8,651	4,969	5,910	6,376	14,879	11,728	471	629
Netherlands	1,101	1,765	1,406	389	122	1,847	1,424	170	63
Austria	5,405	4,711	1,510	1,467	943	1,144	122	..	..
Czechoslovakia	5,130	4,954	2,567	2,190	1,732	657	399	104	..
Poland, Danzig	1,213	207	77	82	107	978	134	3	..
Hungary	1,518	..	..	..	..	..	..	..	..
Argentina	2,356	551	3,169	2,899	360	808	414	225	..
Italy	11,756	15,913	9,588	4,076	333	2,217	4,528	955	1
Switzerland	62	335	80	..	116	76	..	..	..
England	*51,222	*48,066	*50,910	*54,319	*55,829	2,135	3,989	4,583	1,543
Scotland	†..	†..	†..	†..	†..	53,819	51,392	52,613	34,495
Ireland	..	..	..	..	..	300	301	35	37
Canada	61	12	265	56	123	359	265	12	309
Mexico	..	..	..	..	1	..	24	..	..
Chile	..	..	..	..	..	390	..	..	..
India	547,789	525,653	490,881	524,794	558,162	493,260	519,400	467,839	444,670
British East Indies	..	..	212	..	..	887	2,026	217	63
Ceylon	..	..	97	..	..	..	..	..	..
Hongkong	..	31	34	..	41	401	54	23	14
Japan	..	1,109	104	301	56	..	160	..	153
Philippine Islands	..	..	..	..	..	..	..	1,039	..
French Africa	..	..	..	..	..	37	..	..	..
China	18	..	..	..	..	5	..	..	..
Other countries	4	973	498	1,534	1,426	1	..	..	..
Totals	643,646	619,987	569,650	598,977	626,816	576,663	598,473	530,510	484,168

*Figures for the United Kingdom. †Figures included under England.

UNITED STATES—CORN MEAL AND FLOUR EXPORTS

Exports of corn meal and corn flour from the United States, with principal countries of destination, as officially reported by the Department of Commerce, by calendar years, in barrels of 196 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919
Austria	..	..	..	..	..	..	..	..			24
Belgium	..	..	..	2	..	..	..	4	14	1	93
British Guiana	2	2	2	2	2	2	..				
Barbados	24	23	20	23	27	25	28	31	41		22
Jamaica	55	66	49	33	33	66	88	63	48	63	33
Trinidad and Tobago	6	5	5	4	5	4	5	6	5	9	5
Other Brit. W. Ind.	29	30	26	27	23	32	36	28	33	39	22
Canada	52	54	52	61	56	66	65	40	47	45	21
China	..	..	2	2	..	1	..	..			
Cuba	10	9	24	27	23	27	31	28	21	24	16
Denmark	..	3	3	13	8	11	1	6	6	3	55
Dutch West Indies	60	43	40	51	37	39	29	24	41	33	11
Egypt	..	..	3	11	8	..	4	20	125	414	
France	..	..	29	87	..	1	137	8	36		
Germany	..	..	..	..	1	3	24	71	60	5	1
Gibraltar	..	..	..	..	..	..	..	..			25
Hongkong	..	..	..	..	..	..	22	..	..	..	
Italy	..	..	..	..	..	..	..	..	2	..	283
Japan	..	..	35	43	24	36	..	..		..	
Mexico	..	..	1	2	1	1	..	..			
Netherlands	3	3	13	15	7	17	26	37	37	..	
Newfoundland and Labrador	3	3	2	3	5	6	11	14		26	239
New Zealand	..	..	..	..	..	..	..	1	10		
Norway	2	3	2	3	3	2	3	6	1	4	6
Panama	3	3	2	2	2	3	3	3	3	8	1
Poland and Danzig	..	..	..	..	..	..	..	..	2	4	14
Russia in Asia	..	..	..	..	..	..	..	41	18	2	1
Russia in Europe	..	..	..	1	..	..	..	1			
Switzerland	..	..	..	..	..	..	..	..	10	..	
Turkey in Europe	..	..	..	..	..	..	..	54		..	
England	*12	*9	*60	*76	*45	71	65	82	29	..	146
Scotland	†..	†..	†..	†..	†..	10	19	28	154	..	
Ireland	†..	†..	11	13	13	13	12	14	26	65	104
Virgin Islands	9	10	10	13	13	11	12	14	11	43	3
Other countries	6	7	7	13	23	..	..	..	14	9	1
Totals	267	273	387	516	348	435	610	630	803	867	1,202

*Figures for United Kingdom. †Included under England. ‡Irish Free State.

Rye and Corn Flour Exports

Exports of barley flour, rye flour and corn flour and meal from the United States, by calendar years, in barrels, as reported by the Bureau of Foreign and Domestic Commerce:

	Rye flour	Corn flour and meal
1930	8,261	207,630
1929	14,764	267,121
1928	31,650	273,272
1927	38,460	387,383
1926	15,667	516,479
1925	30,747	348,139
1924	210,030	135,103
1923	194,267	624,428
1922	56,539	630,381
1921	55,654	802,701
1920	363,746	867,165
1919	1,266,030	1,202,434
1918	1,446,075	1,790,016

United States—Flaxseed Imports

Flaxseed imports into the United States by calendar years were as follows, in bushels (000's omitted):

	From—		
	Argentina	Canada	*Totals
1930	11,225	1,215	12,662
1929	23,120	1,063	24,943
1928	14,941	2,599	17,579
1927	19,365	2,411	21,821
1926	19,448	2,906	22,550
1925	10,537	5,917	16,510
1924	13,838	2,750	16,589
1923	21,151	3,008	24,332
1922	12,213	2,254	14,913
1921	8,885	3,095	12,326
1920	22,778	1,638	24,641
1919	12,354	1,279	14,036
1918	9,668	3,240	12,974

Flaxseed imports into the United States by fiscal years ending June 30 were as follows, in bushels (000's omitted):

Year ending	From—		
June 30—	Argentina	Canada	*Totals
1930	19,215	295	19,573
1929	20,869	2,529	23,437
1928	16,074	1,764	18,112
1927	20,582	3,566	24,225
1926	16,375	2,949	19,354
1925	8,256	5,137	13,419
1924	14,169	3,385	19,577
1923	22,331	2,191	25,006
1922	10,402	3,013	13,632
1921	13,146	2,636	16,170
1920	22,242	816	23,392
1919	6,977	1,304	8,427
1918	7,432	5,601	13,367
1917	5,009	7,015	12,394
1916	11,468	3,095	14,679
1915	3,928	6,630	10,666

*Including other countries.

WESTERN ASSURANCE COMPANY

INCORPORATED 1851

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"ALL RISKS"

Perfect Protection *Equitable Rates*

Expert personal attention to all details of Insurance and Transportation of Export Flour and Oatmeal

F. C. THOMPSON CO., LTD., *Special Agents*

Royal Bank Building, TORONTO

UNITED STATES—CORN IMPORTS

Imports of corn into the United States during calendar years, by leading countries of origin, in bushels of 56 lbs (000's omitted):

From—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Argentina	162	249	5,154	724	351	3,921	58	40	5	7,024
Azores, etc.	..	..	..	..	..	..	..	..	..	46
Brazil	..	..	30	..	..	..	..	1	..	176
Canada	7	30	23	10	11	56	20	10	36	16
China	..	..	..	..	11	..	..	..	..	37
Dominican Republic	200	199	199	234	180	112	116	16	35	27
Dutch West Indies	..	..	..	..	11	..	..	15	9	..
French West Indies	..	..	..	..	..	..	..	1	..	..
Kwangtung	37	86	..	86	509	11	..	..	..	107
Mexico	..	..	..	1	..	2	2	1	35	354
United Kingdom	..	..	..	..	1	..	1	..	..	..
Venezuela	..	..	..	..	12	4	6	30	43	6
All others	1	1	2	..	..	..	..	..	..	..
Totals	407	565	5,458	1,055	1,086	4,107	203	113	164	7,784

United States—Bread and Biscuit Imports

Prior to 1922, imports of bread, biscuit, wafers, cakes, etc., were reported by the Department of Commerce under a single heading. Since then imports of bread, duty free, have been reported separately from those of biscuit, wafers, cakes, etc.

Imports for consumption of yeast-leavened bread by calendar years:

	Lbs	Value
1930	2,677,227	$389,492
1929	2,467,881	378,044
1928	2,755,176	377,549
1927	2,280,730	297,464
1926	2,294,749	278,667
1925	2,227,593	296,514
1924	2,048,408	245,218
1923	866,445	94,891
1922	233,683	20,781

Imports of biscuit, wafers, cakes, etc., by calendar years:

	Lbs	Value
1930	*	$487,253
1929	*	423,347
1928	2,393,343	725,747
1927	2,297,921	662,095
1926	1,544,193	514,518
1925	1,265,389	379,133
1924	1,337,448	321,864
1923	962,157	.....
1922	590,734	.....

*Quantity not reported after 1924.

Imports of bread by calendar years, showing the countries of origin, in pounds:

Country of origin—	1928	1929
Finland	212,518	118,287
France	39,151	30,938
Germany	69,144	78,087
Sweden	1,652,210	1,512,457
Norway	101,306	96,951
Canada	285,750	171,605
Other countries	294,097	.....
Totals	2,755,176	2,467,881

United States—Grain Products Exports

Exports of miscellaneous grain products in the calendar years, as reported by the Department of Commerce:

	1929	1930
Barley malt, bus	3,380,788	2,045,027
Corn meal, bbls	267,121	207,630
Hominy and grits, lbs	14,383,857	6,181,415
Oatmeal and rolled oats, lbs	81,245,501	38,710,437
Rice flour, meal and broken rice, lbs	70,593,596	15,187,697
Rye flour, bbls	14,764	8,261
Biscuits and crackers,	10,617,964	9,473,783
Macaroni, etc., lbs	10,740,479	9,718,559
Cereal breakfast foods, lbs	7,942,194	9,872,283

UNITED STATES—FEED EXPORTS IN 1930

Exports of feedingstuffs from the United States in the calendar year 1930, as compiled from the monthly reports of the Department of Commerce.

KAFIR AND MILO, BUS (000'S OMITTED)

To—	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tots.
Germany	9	..	..	..	..	..	..	..	..	..	..	..	9
Canada	2	7	1	2	4	..	..	1	3	..	3	..	23
Others	..	1	..	..	..	..	..	..	..	..	..	..	1
Totals	11	8	1	2	4	*..	*..	1	3	*..	3	*..	33

PREPARED MIXED FEEDS (TONS)

To—	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tots.
Belgium	..	18	16	..	..	..	..	..	..	..	28	82	
Denmark	..	10	..	..	..	..	..	25	..	..	..	..	35
Germany	288	88	112	93	87	191	98	61	22	1	9	29	1,109
Netherlands	213	110	268	243	36	140	18	109	60	3	43	5	1,278
Sweden	2	10	..	1	10	1	..	30	..	20	..	18	91
U. Kingdom	266	36	97	112	123	125	19	9	36	95	50	31	1,029
Canada	247	33	39	67	154	139	87	85	250	201	108	119	1,529
Honduras	160	4	5	2	1	297	5	169	152	3	2	125	925
Panama	101	62	69	111	28	93	66	31	99	53	112	93	953
Mexico	1	9	7	8	5	13	9	4	3	..	3	..	62
Labrador	2	2	..	2	..	..	..	..	..	..	3	..	9
Bermudas	156	59	116	96	97	79	77	54	78	103	85	59	1,039
Jamaica	14	15	..	35	21	20	8	8	6	12	9	16	154
Other B. W. Ind.	32	59	34	34	53	36	61	45	39	29	55	63	543
Cuba	176	305	479	329	394	575	292	235	279	266	359	207	4,189
Spain	..	..	2	..	..	..	..	..	..	..	..	..	2
Others	117	111	107	109	113	119	84	67	73	130	86	163	1,279
Totals	2,075	961	1,383	1,290	1,122	1,828	857	933	1,097	911	903	919	14,308

MILLFEEDS, INCLUDING SCREENINGS (TONS)

To—	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tots.
Belgium	..	..	..	..	50	..	..	..	..	..	..	..	50
Germany	183	374	86	..	17	19	108	10	82	207	209	310	1,635
Netherlands	118	274	548	516	495	661	694	198	508	670	472	305	5,749
Sweden	..	..	..	..	..	..	..	28	..	..	..	..	28
United Kingdom	75	66	50	20	70	9	16	..	..	..	..	44	350
Canada	124	138	331	393	400	237	169	200	171	160	191	132	2,646
Panama	4	4	66	8	5	9	50	12	..	9	7	7	211
Mexico	17	19	26	33	8	8	10	6	..	2	54	5	187
Labrador	32	..	..	..	27	27	1	..	..	1	3	1	92
Bermudas	3	50	4	18	22	28	..	13	9	4	4	15	170
Oth. B. W. Ind.	7	9	19	4	10	289	7	17	8	7	11	12	400
Cuba	252	376	399	262	484	135	241	164	212	203	155	342	3,135
Japan	..	90	125	..	..	..	126	..	..	..	..	..	341
Honduras	1	5	504	3	134	2	5	2	2	151	1	4	814
Others	47	21	20	68	35	75	20	71	49	56	32	36	530
Totals	1,193	1,426	2,178	1,325	1,687	1,499	1,477	720	1,041	1,470	1,139	1,243	16,393

COTTONSEED OIL CAKE AND OIL MEAL, TONS (000'S OMITTED)

To—	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tots.
Belgium	..	..	..	..	..	..	..	..	1	..	..	..	1
Denmark	11	3	3	..	..	..	..	..	..	3	..	6	26
Germany	3	..	..	..	..	..	..	..	..	..	..	..	3
United Kingdom	3	..	..	..	..	..	..	..	..	..	..	..	3
Canada	1	1	1	..	..	..	..	..	1	1	..	..	5
Irish Free State	3	..	..	..	..	..	..	..	..	..	..	..	3
Others	2	..	..	..	..	..	..	1	..	..	..	1	4
Totals	23	4	4	†..	†..	†..	†..	†..	2	4	1	7	45

LINSEED OIL CAKE AND OIL MEAL, TONS (000'S OMITTED)

To—	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tots.
Belgium	5	5	5	5	3	3	2	3	2	2	3	5	43
Netherlands	11	7	15	11	13	7	7	4	1	3	7	4	93
United Kingdom	1	1	2	2	2	2	1	1	..	..	1	5	18
Others	1	2	1	1	..	1	1	2	1	1	1	1	13
Totals	21	15	23	22	18	13	11	10	4	6	12	15	173

*Less than 500 bus. †Less than one ton.

UNITED STATES—RYE FLOUR EXPORTS

Exports of rye flour from the United States, with principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in barrels of 196 lbs (000's omitted):

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Austria	..	..	..	..	..	..	..	1	..	..
Belgium	..	..	..	..	..	9	1	..	..	13
Brazil	..	2	..	..	..	..	..	..	..	..
Canada	4	4	5	4	5	3	4	4	1	3
Cuba	..	..	1	1	1	..	..	..	..	..
Denmark	1	1	..	..	1	5	7	2	1	3
Dutch West Indies	..	..	..	..	..	..	..	..	..	1
Esthonia	..	..	..	..	..	1	2	..	..	..
Finland	..	1	..	..	2	9	19	17	25	..
France	..	..	..	..	..	10	19	..	..	..
Germany	..	..	..	..	7	112	85	3	6	24
Greece	..	..	..	1	..	4	..	..	..	..
Latvia	..	..	..	..	..	..	3	..	..	..
Mexico	1	..	..	..	..	..	1	1	..	..
Netherlands	..	1	..	..	3	42	35	5	1	21
Norway	2	15	24	..	..	1	..	10	6	283
Palestine and Syria	1	1	..	2	2	1	1	..	..	..
Philippine Islands	..	..	..	2	..	..	..	..	..	..
Poland, Danzig	..	..	..	..	1	..	..	..	3	1
Russia	..	..	..	1	1	..	..	..	..	2
Sweden	3	1	6	1	9	19	23	1	1	1
Turkey in Europe	..	..	1	..	..	..	..	2	2	..
England*	..	..	..	..	2	..	..	1	1	..
Virgin Islands	..	..	..	..	1	1	1	1	1	1
Other countries	3	3	..	1	4	..	..	..	..	..
Totals	15	31	38	14	37	219	191	57	56	360

*Figures for United Kingdom.

UNITED STATES—OIL CAKE AND MEAL EXPORTS

Exports of oil cake and meal from the United States, with the principal countries of destination, by calendar years, as officially reported by the Department of Commerce, in tons of 2,000 lbs (000's omitted):

COTTONSEED CAKE AND MEAL

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Belgium	2	4	7	3	3	3	..	2	3	1
Cuba	2	..	..	..	..	..	..	..	..	..
Denmark	121	172	247	158	239	136	98	98	148	124
France	1	2	..	..	1	..	..	1	1	..
Germany	33	38	97	110	72	70	44	57	52	10
Irish Free State	6	5	10	2	..	..	..	..	..	..
Italy	..	..	..	1	..	1	..	..	..	..
Mexico	..	1	4	4	..	..	..	..	..	..
Netherlands	5	10	7	13	6	6	1	2	..	..
Norway	1	7	13	12	..	17	3	6	11	5
Sweden	..	6	3	3	6	11	2	7	6	21
United Kingdom	27	34	43	49	53	42	21	47	40	3
Canada	11	6	7	10	3	1	1	1	3	5
Cuba	..	3	3	4	4	3	2	1	..	1
Other countries	1	1	..	2	13	..	..	..	..	..
Totals	213	291	443	421	399	311	172	224	293	170

LINSEED CAKE AND MEAL

To—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Barbados	2	..	..	..	..	..	..	..	..	..
Belgium	55	119	114	63	93	71	41	59	40	13
Denmark	..	..	..	..	5	1	..	..	..	21
Irish Free State	4	3	3	2	..	..	..	..	..	..
Netherlands	193	135	188	212	293	204	183	129	146	45
Norway	..	..	..	..	1	1	..	..	..	..
United Kingdom	24	21	24	35	27	39	43	25	29	21
Canada	..	..	..	1	1	1	..	..	4	2
Germany	14	..	3	2	6	9	7	4	16	5
Others	6	3	..	..	..	1	2	3	4	9
Totals	328	281	332	295	325	327	282	220	281	123

GRAIN AND FLOUR IMPORTS AND EXPORTS OF FOREIGN COUNTRIES

A Section Devoted to Statistics Dealing with the Import and Export Trade of Countries Foreign to the United States in Grain and Grain Products—Figures Are Given for the Past Year and a Number of Previous Years

CANADA—FLOUR EXPORTS IN 1930

Exports of wheat flour from Canada from Jan. 1, 1930, to Dec. 31, 1930, by principal countries of destination, in barrels of 196 lbs (000's omitted):

	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
United Kingdom	196	164	[illegible]	159	209	226	291	284	220	271	275	[illegible]	2,814
Newfoundland	12	4	[illegible]	[illegible]	23	16	17	[illegible]	5	31	49	[illegible]	233
Barbados	4	6	4	4	3	4	[illegible]	[illegible]	5	5	[illegible]	8	60
Jamaica	17	15	32	17	23	[illegible]	31	[illegible]	23	[illegible]	28	26	285
Trinidad and Tobago	16	[illegible]	30	12	[illegible]	[illegible]	28	[illegible]	25	19	21	22	271
Other Brit. West Indies	[illegible]	14	16	9	13	[illegible]	13	10	[illegible]	15	[illegible]	16	[illegible]
British South Africa	[illegible]	6	[illegible]	3	[illegible]	[illegible]	3	2	5	6	5	9	[illegible]
British Guiana	9	[illegible]	10	..	[illegible]	6	[illegible]	7	5	[illegible]	11	7	[illegible]
Bermuda	..	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	19
British Honduras	..	[illegible]	[illegible]	[illegible]	1	..	[illegible]	[illegible]	..	[illegible]	[illegible]	[illegible]	9
Austria	9	[illegible]	[illegible]	[illegible]	[illegible]	..	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35
Malta	1	3	[illegible]	[illegible]	[illegible]	2	[illegible]	2	[illegible]	..	..	[illegible]	[illegible]
Hongkong	29	[illegible]	[illegible]	10	[illegible]	20	[illegible]	13	[illegible]	34	[illegible]	[illegible]	278
China	32	[illegible]	38	[illegible]	14	[illegible]	..	6	[illegible]	[illegible]	[illegible]	18	292
Colombia	..	..	..	..	..	..	5	..	..	..	..	..	5
Czechoslovakia	..	..	..	..	..	6	[illegible]	[illegible]	..	..	[illegible]	..	16
Cuba	1	..	1	[illegible]	3	1	..	..	..	..	..	1	8
Denmark	9	13	22	[illegible]	23	[illegible]	[illegible]	13	32	[illegible]	[illegible]	29	226
Egypt	8	..	7	[illegible]	9	2	4	2	5	[illegible]	[illegible]	1	[illegible]
Esthonia	..	..	1	..	..	[illegible]	2	1	1	[illegible]	[illegible]	[illegible]	[illegible]
Finland	[illegible]	[illegible]	28	20	23	[illegible]	19	23	[illegible]	47	52	[illegible]	311
French West Indies	..	3	..	5	7	[illegible]	2	2	[illegible]	3	3	3	33
Germany	63	87	70	68	67	90	45	63	[illegible]	183	101	[illegible]	984
Gold Coast	[illegible]	1	[illegible]	[illegible]	2	[illegible]	2	2	2	4	3	1	[illegible]
Greece	[illegible]	2	[illegible]	[illegible]	8	[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]
Haiti	..	..	..	..	..	..	..	[illegible]	..	..	..	..	[illegible]
Italy	1	[illegible]	..	..	[illegible]	..	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	27
Irish Free State	15	[illegible]	18	[illegible]	15	20	20	[illegible]	[illegible]	[illegible]	19	24	213
Japan	12	31	20	[illegible]	19	[illegible]	18	13	10	[illegible]	16	[illegible]	[illegible]
Netherlands	[illegible]	3	13	[illegible]	12	6	[illegible]	[illegible]	5	[illegible]	6	6	[illegible]
Norway	15	[illegible]	18	[illegible]	6	34	31	30	19	[illegible]	[illegible]	[illegible]	[illegible]
Portuguese Africa	[illegible]	1	[illegible]	..	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Philippine Islands	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	3	[illegible]	[illegible]	5	[illegible]	[illegible]	35
Panama	..	..	..	..	..	..	..	[illegible]	..	..	..	..	[illegible]
Sweden	[illegible]	[illegible]	3	[illegible]	2	1	3	..	[illegible]	[illegible]	3	1	19
Venezuela	[illegible]	[illegible]	4	3	[illegible]	3	[illegible]	[illegible]	9	[illegible]	[illegible]	5	61
Others	10	[illegible]	23	17	[illegible]	20	[illegible]	18	55	33	26	[illegible]	270
Totals	503	481	681	451	573	598	659	627	734	814	792	602	7,515

CANADA—FLOUR EXPORTS BY PORTS

Exports of wheat flour from Canada by crop years, commencing Aug. 1, by ports of exit, in barrels of 196 lbs (000's omitted):

From—	1929-30 to— U. K.	U. S.	Others	1928-29 to— U. K.	U. S.	Others	1927-28 to— U. K.	U. S.	Others	1926-27 U. K.	U. S.	O'rs
Halifax, N. S.	79	..	431	45	..	504	40	..	560	[illegible]	.	543
St. John, N. B.	457	..	256	521	..	399	604	..	483	781	.	493
Other Nova Scotia and New Brunswick	..	..	64	..	..	76	..	..	[illegible]	..	.	20
Three Rivers, Que.	..	..	[illegible]	..	..	1	..	..	..	..	..	..
Montreal, Que.	1,205	..	1,319	1,413	..	1,876	1,444	..	1,642	1,595	.	1,358
Quebec, Que.	..	..	[illegible]	6	..	13	[illegible]	..	33	86	.	[illegible]
Sutton, Que.	48	..	19	83	..	67	88	.	53	60	.	88
St. Armand, Que.	48	..	[illegible]	62	[illegible]	46	32	.	3	[illegible]	.	13
L. Megantic, Que.	..	..	..	..	..	..	[illegible]	.	8	..	..	..
St. Johns, Que.	[illegible]	..	[illegible]	42	..	[illegible]	47	.	19	45	..	76
Athelstan, Que.	12	..	[illegible]	[illegible]	..	55	10	.	76	10	..	101
Coaticook, Que.	105	..	[illegible]	101	..	[illegible]	191	.	[illegible]	249	.	5
Niagara Falls, Ont.	95	..	544	196	1	1,735	304	3	1,422	212	1	1,200
Bridgeburg, Ont.	137	..	459	107	..	1,210	201	..	825	187	..	765
Cornwall, Ont.	..	..	..	..	..	[illegible]	..	..	[illegible]	..	..	[illegible]
Prescott, Ont.	13	..	87	[illegible]	[illegible]	201	[illegible]	.	132	[illegible]	.	178
Emerson, Man.	..	..	..	..	..	..	..	[illegible]	..	..	..	..
Vancouver, B. C.	152	..	1,119	35	..	2,884	92	3	1,402	52	6	1,134
New Westminster, B. C.	..	..	..	..	..	..	..	..	..	[illegible]	..	..
Welland, Ont.	..	..	10	..	..	16	..	..	..	..	..	9
McAdam, Ont.	..	..	..	..	..	[illegible]	..	..	..	..	..	..
Cobourg, Ont.	3	..	25	..	..	..	..	..	..	..	..	..
Totals	2,383	*..	4,395	2,638	3	9,168	3,099	7	6,760	3,318	8	5,921

*Less than 500 bbls.

CANADA—WHEAT EXPORTS BY COUNTRIES IN 1930

Monthly exports of wheat from Canada in 1930 by countries of destination, in bushels (000's omitted):

	Jan.	Feb.	Mch.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U. K'gdom	3,064	4,122	4,001	1,569	9,147	11,787	13,106	12,057	19,263	18,488	22,675	12,223
U. States	2	..	42	..	654	699	1,262	493	1,401	2,736	1,566	1,393
Br. S. Afr.	37	..	9	37	22	107	153	95	226	664	500	759
China	..	..	347	..	..	..	..	..	440	563	817	1,338
Colombia	30	18	83	26	91	22	49	[illegible]	79	35	35	[illegible]
Belgium	274	397	813	181	453	1,579	804	861	1,084	1,131	866	[illegible]
Denmark	..	..	..	..	15	8	[illegible]	56	37	..	45	54
France	168	292	949	209	203	406	731	603	535	1,040	933	629
Germany	328	215	570	159	490	325	605	545	530	366	407	680
Italy	177	188	1,101	332	687	1,205	1,374	901	1,175	2,282	998	1,369
Irish F. St.	48	40	76	48	16	22	58	25	24	16	[illegible]	[illegible]
Japan	535	926	748	102	849	322	118	447	416	872	544	1,023
Netherlands	91	312	503	247	200	976	518	1,167	1,322	181	957	462
New Zealand	20	..	10	10	10	[illegible]	20	13	10	17	1	..
Norway	65	..	177	..	..	98	102	171	..	76	124	..
Portugal	..	..	401	..	278	..	..	..	..	..	..	..
Peru	..	..	75	75	..	112	119	37	[illegible]	196	252	..
Greece	..	..	1,282	243	296	1,282	674	49	434	809	379	508
Venezuela	..	..	..	..	..	33	..	..	..	..	..	..
Sweden	154	222	404	123	[illegible]	..	166	75	159	311	111	93
Malta	..	..	..	75	37	..	..	..	148	..	..	..
Russia	..	..	..	..	..	..	..	..	254	..	..	..
Others	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	206	[illegible]	..	56
Totals	4,994	6,733	11,592	3,428	13,467	18,990	19,868	17,639	27,817	29,784	31,218	22,230

VANCOUVER—SHIPMENTS

Exports of flour and grain from Vancouver, B. C., as reported by the Vancouver Merchants' Exchange:

FLOUR, BBLS

	1930	1929	[illegible]	1927	1926
China	276,996	2,190,107	1,070,342	559,801	} 796,000
Japan	182,040	71,559	63,175	224,020	
Hongkong	277,139	296,912	220,002	165,175	
New Zealand	53,641	57,823	46,550	23,905	......
Europe	288,042	67,728	181,700	172,407	170,000
Other	124,098	126,855	156,272	70,059	20,000
Totals	1,201,956	2,809,994	1,738,041	1,215,367	986,000

GRAIN, BUS (000'S OMITTED)

	1930	1929	[illegible]	1927	1926
Europe	50,576	49,265	74,830	33,356	29,412
Orient	10,895	23,236	20,888	9,290	14,186
Central and South America	1,614	650	1,045	753	643
Other	643	321	632	....	219
Totals	63,728	73,492	97,395	43,399	44,460

CANADA—WHEAT FLOUR EXPORTS

Exports of wheat flour from Canada by fiscal years ended March 31, by principal countries of destination, in barrels of 196 lbs (000's omitted):

	1929-30	1928-29	1927-28	1926-27	1925-26	1924-25	1923-24	1922-23	1921-[illegible]	1920-[illegible]	1919-[illegible]
Belgium	..	..	1	1	11	[illegible]	7	9	[illegible]	[illegible]	[illegible]
Bermuda	14	15	13	15	24	[illegible]	17	19	[illegible]	18	[illegible]
Brazil	..	10	49	310	62	30	62	[illegible]	..	..	..
British Guiana	116	146	156	163	135	165	178	161	141	120	133
Brit. South Africa	53	65	80	65	53	86	68	77	26	311	..
Brit. West Indies	[illegible]	970	748	740	683	643	678	596	525	469	523
China	[illegible]	2,181	796	427	1,087	346	505	271	[illegible]	5	..
Cuba	[illegible]	36	18	107	148	146	255	225	93	38	91
Denmark	[illegible]	362	280	267	253	199	296	[illegible]	161	[illegible]	[illegible]
Egypt	[illegible]	385	152	119	150	119	140	132	[illegible]	75	7
France	83	[illegible]	..	[illegible]	..	[illegible]	..	..	..	18	[illegible]
Finland	211	296	240	232	169	163	239	253	81	10	..
French W. Indies	43	64	39	26	26	15	[illegible]	12	[illegible]	[illegible]	27
Germany	735	1,180	2,052	1,544	1,539	[illegible]	[illegible]	675	51	94	..
Greece	123	299	[illegible]	496	313	263	270	220	[illegible]	139	[illegible]
Hongkong	238	214	[illegible]	104	191	149	372	101	50	15	..
Italy	[illegible]	65	[illegible]	60	23	94	[illegible]	20	[illegible]	..	[illegible]
Japan	[illegible]	46	189	96	105	19	112	125	47	..	1
Netherlands	[illegible]	296	58	83	242	195	[illegible]	136	62	[illegible]	132
Newfoundland	[illegible]	312	311	319	334	337	375	374	351	[illegible]	382
Norway	240	435	286	276	436	186	457	135	42	[illegible]	8
Poland	..	..	..	20	239	248	320	199	53	31	..
Roumania	..	..	..	..	..	..	..	..	..	..	[illegible]
Russia	..	[illegible]	..	..	370	1,453	[illegible]	[illegible]	16	..	[illegible]
Sweden	11	[illegible]	57	93	68	69	122	89	[illegible]	10	[illegible]
Spain	..	..	..	..	..	..	..	..	..	26	..
Turkey	..	1	..	[illegible]	[illegible]	3	30	261	110	[illegible]	55
United Kingdom*	2,457	2,990	3,456	3,879	3,004	3,540	4,234	4,724	4,736	2,747	5,525
United States	1	[illegible]	[illegible]	12	13	57	[illegible]	612	570	1,188	30
Venezuela	47	96	99	159	122	120	[illegible]	106	68	16	29
Others	370	866	597	543	284	306	288	295	[illegible]	[illegible]	63
Totals	7,895	11,405	10,370	10,148	10,085	11,020	11,715	10,225	7,114	6,017	8,363

*Beginning 1924-25 includes exports to the Irish Free State.

CANADA—FLOUR EXPORTS BY CROP YEARS

Exports of wheat flour from Canada, by months and crop years, beginning Aug 1 of the year indicated, as officially reported, in barrels of 196 lbs (000's omitted):

Year beginning—	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918
August	613	925	514	459	685	626	657	591	464	288	1,[illegible]	619
September	492	890	677	612	661	967	456	698	361	310	463	317
October	554	1,171	899	963	1,022	1,145	1,155	865	659	570	591	536
November	538	1,159	1,149	1,262	1,210	905	1,357	1,214	856	744	755	355
December	605	923	957	885	1,042	828	1,390	1,463	748	608	1,237	1,204
January	503	933	766	774	717	875	1,053	1,025	632	701	358	996
February	481	995	768	748	842	834	1,092	779	665	623	236	450
March	681	1,413	1,142	1,029	1,302	1,385	1,398	1,221	987	321	236	607
April	451	720	609	415	682	710	890	832	512	535	118	669
May	573	907	886	805	[illegible]	482	1,057	646	617	518	102	975
June	598	935	716	847	[illegible]	596	904	906	765	535	666	978
July	659	836	783	449	978	815	613	776	486	465	433	1,155
Totals	6,778	11,809	9,866	9,248	10,896	10,168	12,022	11,003	7,742	6,721	6,456	9,111

Totals by calendar years in barrels (000's omitted):

1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917
9,574	10,738	9,263	10,457	10,317	11,478	11,197	9,485	7,279	4,729	10,057	10,052	8,734

CANADA—IMPORTS AND EXPORTS

Imports for consumption into Canada, and exports of Canadian products from Canada, by calendar years:

IMPORTS

	Grain, bus— Wheat	Oats	Barley	Rye	Flaxseed	Flour, bbls— Wheat	Rye	100 lbs— Oatmeal, rolled oats	Oil cake, etc.	Barley, pot and pearl
1930.	180,949	2,373,695	9,181	114,851	809,045	54,590	4,287	16,230	189,466	352
1929.	1,792,384	3,419,848	15,874	245,495	1,374,272	85,013	4,365	39,544	260,360	354
1928.	110,931	3,028,694	2,156	103,300	299,737	75,705	4,226	7,440	150,525	393
1927.	155,778	2,571,042	24,357	62,365	354,340	64,337	3,707	5,698	168,367	226
1926.	130,401	1,793,994	16,107	4,698	809,922	53,841	2,962	3,738	195,920	[illegible]
1925.	427,088	1,869,931	561	7,003	481	51,697	3,912	1,694	92,480	684
1924.	66,334	786,518	2,031	75	395,213	78,761	2,722	662	66,897	1,003
1923.	80,947	185,771	286	698	797,392	81,534	3,687	3,722	40,893	1,344
1922.	63,378	1,067,502	1,467	928	44,886	49,591	3,549	2,380	4,765	1,405
1921.	400,917	137,352	2,180	4,200	270,341	40,186	1,728	168	66,347	1,303

EXPORTS (000'S OMITTED)

	Grain, bus— Wheat	Oats	Barley	Rye	Flaxseed	Flour, bbls— Wheat	Rye	100 lbs— Oatmeal, rolled oats	Oil cake, etc.	Barley, pot and pearl
1930.	207,761	2,765	2,834	1,281	1,397	7,515	..	382	359	*2,536
1929.	210,946	7,681	16,988	1,938	850	9,574	..	452	510	*3,119
1928.	365,429	16,037	36,774	9,938	2,950	10,737	..	581	444	*2,701
1927.	255,062	6,270	32,181	9,050	2,185	9,263	..	298	461	*1,517
1926.	250,110	18,572	34,727	6,138	2,653	10,457	..	497	393	*1,792
1925.	222,345	41,398	33,335	5,450	5,502	10,319	..	533	464	*3,531
1924.	214,631	35,692	22,697	7,456	3,101	11,477	1	1,052	343	*3,423
1923.	242,815	22,204	14,250	7,036	2,871	11,199	1	398	401	*2,424
1922.	209,339	30,331	14,787	9,879	2,073	9,485	1	369	457	*1,454
1921.	146,855	33,176	12,301	3,815	3,728	7,278	1	658	358	*1,219

*Bran, shorts and middlings.

Montreal—Grain Exports

Exports of grain from Montreal, Canada, by water, for season of navigation, in bushels (000's omitted):

	Wheat	Corn	Oats	Barley	Rye
1930	66,427	....	1,106	784	640
1929	61,603	....	4,821	12,537	1,447
1928	145,076	3,762	17,882	29,989	13,728
1927	119,113	4,657	12,116	23,139	35,466
1926	91,771	1,563	16,472	16,629	7,633
1925	83,900	1,296	46,800	17,849	16,229
1924	117,931	1,603	15,349	6,981	22,794
1923	89,566	2,222	13,146	7,918	6,991
1922	81,193	35,091	16,868	5,868	....
1921	50,083	43,516	19,539	7,239	....
1920	42,881	490	2,969	5,118	....
1919	33,916	316	3,742	10,844	....
1918	21,262	....	32,316	2,663	....
1917	34,769	2,022	18,765	2,750	....
1916	34,292	5,201	26,616	4,000	....
1915	34,319	166	7,265	1,397	....
1914	60,618	....	8,408	4,493	....
1913	33,252	60	7,255	5,181	....
1912	30,971	....	6,523	1,214	....
1911	18,122	6,891	6,783	61	....
1910	20,089	2,751	3,254	512	....
1909	25,004	424	441	493	....
1908	28,303	317	205	1,266	....
1907	21,149	4,805	4,113	858	....

Western Canada—Grain Inspection

Inspection of grain at Winnipeg and other points in western Canada, by crop years, in bushels (000's omitted). Previous to 1925 the crop year ended Aug. 31. It now closes on July 31.

	Wheat	Oats	Barley	Flaxseed
1930	219,885	16,965	22,846	1,539
1929	466,250	44,756	51,512	2,991
1928	397,160	38,576	27,835	4,108
1927	336,231	27,615	40,575	4,793
1926	353,760	53,690	41,991	5,865
1925*	214,389	49,952	31,899	8,347
1924	291,268	84,272	20,003	5,349
1923	301,136	48,883	18,971	3,177
1922	231,606	62,412	14,000	2,784
1921	187,185	72,794	14,904	5,599
1920	122,589	66,746	14,229	3,034
1919	133,614	16,234	9,967	2,713
1918	156,512	58,671	9,594	4,923
1917	192,070	95,169	10,627	7,096
1916	338,419	116,134	13,246	5,801
1915	107,916	35,839	4,953	4,881
1914	158,013	67,197	16,761	14,893
1913	141,716	59,765	14,833	22,081
1912	145,937	53,141	6,301	7,198
1911	87,619	26,351	2,555	3,218
1910	94,922	39,944	4,663	3,871
1909	74,056	21,996	3,579	2,274

*Eleven months only.

CANADIAN FLOUR EXPORTS

Exports of wheat flour from Canada to United States, United Kingdom and other countries by crop years ending July, compiled from statistics issued by the Dominion Bureau of Statistics, Ottawa (in barrels):

	1929-30	1928-29	1927-28	1926-27
United States	313	2,697	6,766	8,451
United Kingdom	[illegible]	[illegible]	[illegible]	[illegible]
Other countries	4,395,184	[illegible]	[illegible]	[illegible]
	6,778,023	11,808,775	9,865,751	9,217,821

Canada—Coarse Grain Exports

Exports of principal coarse grains from Canada in the crop years ending July 31, 1930, by months, in bushels (000's omitted).

	Oats	Barley	Rye
August	359	411	50
September	201	17	103
October	162	578	18
November	132	695	...
December	94	606	4
January	39	38	...
February	[illegible]	27	23
March	110	122	11
April	26	17	11
May	96	25	105
June	100	59	22
July	568	9	...
	2,000	2,601	317

Canadian Wheat and Wheat Flour Exports

Exports of Canadian wheat and wheat flour, expressed in bushels, in crop years:

Month—	1929-30	1928-29	Average, 1924-25 to 1928-29
August	13,050,873	[illegible]	16,950,816
September	9,625,524	[illegible]	18,969,623
October	23,215,028	[illegible]	34,654,365
November	[illegible]	[illegible]	51,915,569
December	[illegible]	[illegible]	49,297,691
January	[illegible]	[illegible]	17,239,133
February	[illegible]	[illegible]	16,417,988
March	11,665,609	[illegible]	20,726,568
April	[illegible]	[illegible]	12,089,768
May	[illegible]	31,153,225	27,406,483
June	[illegible]	29,791,213	23,907,830
July	[illegible]	20,779,184	20,568,614
Totals	186,267,212	407,564,186	310,144,451

CANADA—COMPARATIVE FLOUR EXPORTS

The following table shows exports of wheat flour from Canada and the United States during the past 10 years, with total exports and percentage figures for each country, as compiled by the Canadian National Millers' Association:

	From Canada	From U. S. A.	Total	Per cent of total Canada	Per cent of total U. States
1929-30	6,762,010	13,037,075	19,799,085	34.2	65.8
1928-29	11,527,375	13,571,502	25,098,877	46.0	54.0
1927-28	10,276,698	12,654,529	22,931,227	45.0	55.0
1926-27	9,302,114	13,069,611	22,371,725	41.6	58.4
1925-26	10,671,368	10,127,432	20,798,800	51.3	48.7
1924-25	10,228,177	13,830,169	24,058,316	42.5	57.5
1923-24	11,990,842	16,833,842	28,824,684	41.6	58.4
1922-23	11,069,054	14,949,725	26,018,779	42.5	57.5
1921-22	[illegible]	14,723,627	22,602,216	35.8	[illegible]
1920-21	[illegible]	15,885,251	22,771,811	30.2	69.8

CANADA—DISTRIBUTION OF WHEAT CROPS

Distribution of Canadian wheat crops in the last seven crop years, as compiled from statistics published by the Dominion Bureau of Statistics, in bushels (000's omitted):

	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
Gross production	474,199	262,097	411,376	407,136	479,665	566,726	299,520
Grains not merchantable	19,395	12,000	11,213	19,117	27,698	27,851	7,160
Loss in cleaning	18,968	7,863	6,294	12,291	6,732	16,007	9,136
Net production	435,836	242,234	393,869	375,525	445,335	522,865	283,224
Carryover Sept. 1*	11,750	35,746	25,454	34,818	47,839	77,626	104,383
Imports†	424	630	379	407	473	1,000	1,010
Available for distribution	448,010	278,610	419,702	410,750	493,647	601,491	388,617
Requirements—Seed	38,597	40,000	40,227	39,300	42,200	44,500	44,500
Food	39,197	45,000	42,256	42,835	42,000	45,000	44,000
Remainder for export and carryover	370,216	193,610	337,219	328,615	409,447	511,991	†297,960
Exports, Aug. 1 to July 31	313,149	199,213	324,592	292,881	332,963	407,561	186,267

*Figures for 1924-25 to 1928-29 are as of Aug. 1. †About 2,157,000 bus were fed to live stock.

Canada—Wheat Exports, 1929 and 1930

Exports of wheat from Canada during the calendar years 1929 and 1930, giving the countries of destination, in bushels:

	1929	1930
United Kingdom	122,210,000	131,501,283
China	7,166,000	3,506,373
Denmark	2,123,000	222,665
Germany	9,490,000	5,210,115
Irish Free State	483,000	386,101
Sweden	1,598,000	1,819,773
Peru	177,000	910,333
Greece	3,842,000	5,956,292
United States	6,775,000	10,247,752
Belgium	13,448,000	9,995,779
France	6,083,000	6,698,227
Italy	6,578,000	11,789,622
Japan	16,259,000	6,902,391
Netherlands	9,509,000	6,936,750
Norway	1,437,000	813,469
British South Africa	677,000	2,611,321
New Zealand	115,000	117,245
Colombia	459,000	596,363
Portugal	829,000	679,466
Gibraltar	156,000	......
Spain	590,000	16,933
Russia	859,000	251,213
Malta	......	259,586
Brazil	......	205,333
Others	55,000	93,647
Totals	210,915,000	207,761,367

Dominican Republic—Imports and Exports

Imports of wheat flour into the Dominican Republic by calendar years, in barrels:

1928	*.....	1924	108,217
1927	*.....	1923	108,700
1926	118,443	1922	108,598
1925	101,317	1921	91,235

Exports of corn from the Dominican Republic by calendar years, in bushels:

1928	267,244	1924	338,675
1927	214,499	1923	137,741
1926	371,007	1922	32,218
1925	364,464	1921	30,304

*Figures not reported.

Peru—Imports

Imports of flour and grain into Peru by calendar years:

	Wheat flour, bbls	Bushels—Wheat	Corn	Barley
1928	96,402	2,771,297	9,051	207
1927	99,138	2,776,212	37,391	297
1926	82,425	2,703,563	77,574	5,479
1925	72,362	2,833,008	96,054	4,218
1924	79,809	2,620,808	195,242	2,172
1923	99,708	2,344,795	21,246	17,306
1922	128,744	2,146,299	......	77,860
1921	83,073	2,185,335	5,081	116,483

Jute Crops

Jute crops of India, as officially estimated, in pounds (000's omitted):

1929	3,884,703	1923	3,360,000
1928	3,961,282	1922	2,163,200
1927	4,095,200	1921	1,591,000
1926	4,847,040	1920	2,366,000
1925	3,109,867	1919	3,392,520
1924	3,218,039	1918	2,782,280

The foregoing figures do not include production statistics for Nepal. Imports of jute from Nepal into India from 1921 to 1924 averaged about 25,000,000 lbs annually.

Jute crops of Formosa, in pounds (000's omitted):

1929	8,239	1922	6,408
1928	9,656	1921	5,066
1927	8,047	1920	....
1926	8,568	1919	6,270
1925	7,860	1918	6,478
1924	7,915	1917	5,662
1923	7,317		

Jute crops of Japan, in pounds (000's omitted):

1928	2,331	1922	2,291
1927	2,349	1921	2,918
1926	2,163	1920	2,844
1925	2,293	1919	2,943
1924	2,327	1918	2,896
1923	2,430	1917	2,746

Canada—Grain Exports by Years

Exports of coarse grain from Canada by crop years ending July 31, in bushels:

	Oats	Barley	Rye
1930	2,000,281	2,604,612	317,789
1929	12,828,365	40,147,702	5,751,232
1928	12,168,037	26,442,027	11,265,030
1927	6,676,977	38,795,169	8,301,191

Greece—Imports*

Imports into Greece of grain and grain products by calendar years (000's omitted):

	Wheat flour, bbls	Bushels—Wheat	Rye	Barley	Corn	Flax
1929	350	21,966	2	1,099	1,104	157
1928	550	17,421	1	179	998	134
1927	746	15,045	23	952	1,233	105
1926	1,663	11,478	27	321	776	86
1925	1,253	13,336	9	791	780	108
1924	1,439	14,764	19	1,653	773	82
1923	1,332	13,294	736	1,220	1,026	44
1922	521	12,683	...	295	191	17
Average, 1909-13	15	6,783	...	...	...	33

*The exports of grain and grain products from Greece are negligible.

Meal from Cottonseed

Under modern processes, one ton of cottonseed produces on the average [illegible] oil, [illegible] cake, [illegible] hulls, 100 [illegible], 100 lbs waste.

Sweden—Imports and Exports

Swedish imports and exports during 1929:

	Imports	Exports
Wheat flour, bbls	[illegible]	51,293
Rye flour, bbls	[illegible]	[illegible]
Wheat, bus	[illegible]	[illegible]
Rye, bus	[illegible]	177,624
Corn, bus	[illegible]	......
Barley, bus	2,971	101,329
Oats, bus	3,862,544	632,173
Flaxseed, bus	1,386,401	......

Total imports of wheat and wheat flour into Sweden, by calendar years:

	Wheat flour, bbls	Wheat, bus
1929	186,537	10,074,805
1928	215,856	9,632,860
1927	164,347	8,675,489
1926	139,061	6,626,309
1925	148,114	8,771,237
1924	267,941	10,523,943
1923	272,379	9,841,558
1922	[illegible]	5,051,456
1921	[illegible]	3,683,623
1920	153,789	7,392,147
1919	58,968	4,828,000
1918	63,003	2,115,251
1917	18,984	3,582,989
1916	52,183	9,429,977
1915	255,629	8,770,667
1914	107,417	1,862,476
1913	96,962	7,326,591
1912	74,132	6,271,980
1911	70,325	6,319,754

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Sweden, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	8,191	*98,357	3,026	3,230	3,772
1928	7,808	20	7,181	[illegible]	3,505
1927	8,111	[illegible]	7,032	[illegible]	2,260
1926	5,273	*1,483	4,329	[illegible]	[illegible]
1925	8,969	*610	3,468	2,958	2,370
1924	11,498	*162	3,356	1,300	4,766
1923	10,564	*161	2,607	2,171	2,919
1922	1,879	*597	1,983	*3,185	*231
1921	6,779	329	4,179	1,755	[illegible]
1920	8,023	[illegible]	1,193	*155	*629
1919	1,016	787	3,119	1,536	*85
1918	2,356	133	1,374	364	*16
1917	3,673	351	1,212	[illegible]	457
1916	9,859	*25	[illegible]	*466	1,167
1915	9,932	516	[illegible]	2,056	1,985
1914	5,321	*11	[illegible]	2,611	2,550
1913	7,771	*9	[illegible]	*299	4,422
1912	6,689	*119	3,847	6,342	4,656
1911	6,658	[illegible]	460	5,096	2,079

*Net exports.

Bulgaria—Imports and Exports

Imports and exports of Bulgaria by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	..	..	94	[illegible]
Wheat, bus	[illegible]	1,767	752	123
Rye, bus	[illegible]	..	952	119
Barley, bus	..	15	1,685	822
Oats, bus	..	..	16	[illegible]
Corn, bus	..	1	1,864	3,095

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) from Bulgaria, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	*566	807	3,091	[illegible]	118
1928	1,132	1,685	1,866	16	912
1927	2,184	3,475	5,061	14	780
1926	3,525	1,063	3,875	*1	503
1925	[illegible]	935	4,576	4	18
1924	605	574	8,297	11	66
1923	3,494	650	4,176	152	336
1922	4,848	1,332	2,211	358	407
1921	3,247	795	2,192	37	333
1920	667	467	4,177	...	16
1919	*1,183	...	*6	...	...
1918	*268	*208	*238	...	20
1917	38	...	*10	...	...
1916	21	...	1,587	...	...
1915	...	389	3,676	...	93
1914	10,082	767	10,779	*353	661
1913	5,422	407	5,768	...	1,264
1912	11,449	778	11,362	120	2,028
1911	14,512	3,430	13,950	466	2,949

*Net imports.

France—Imports and Exports

Imports and exports of France by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	218	143	[illegible]	23
Rye flour, bbls	4	2	1	...
Wheat, bus	37,357	51,800	[illegible]	26
Rye, bus	191	[illegible]	5	[illegible]
Corn, bus	27,047	32,195	[illegible]	[illegible]
Barley, bus	2,971	[illegible]	2,011	[illegible]
Oats, bus	2,910	4,957	1,374	220
Flaxseed, bus	3,257	[illegible]	15	[illegible]

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into France, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	52,402	5,038	[illegible]	3,737	[illegible]
1928	38,214	960	[illegible]	1,524	203
1927	79,451	[illegible]	27,018	3,239	2,742
1926	15,635	1,743	21,698	7,429	2,667
1925	44,268	662	19,936	9,823	904
1924	50,897	4,984	22,021	1,426	2,106
1923	49,711	2,184	22,011	6,323	820
1922	22,093	1,950	20,899	24,382	*970
1921	89,459	2,205	12,766	6,649	1,122
1920	86,698	*878	[illegible]	13,267	16,337
1919	85,298	14,894	[illegible]	31,567	650
1918	71,767	10,926	6,736	33,321	1,344
1917	86,213	8,851	6,219	42,711	*6
1916	104,743	9,814	29,252	72,191	*4
1915	71,126	3,201	16,665	55,200	24
1914	[illegible]	4,581	15,807	34,513	1,437
1913	66,572	4,973	23,177	39,806	[illegible]
1912	25,264	5,672	23,824	14,846	3,481
1911	78,801	8,503	19,674	37,219	6,010

*Net exports.

Denmark—Imports and Exports

Imports and exports of flour and grain by Denmark, by calendar years:

FLOUR, BBLS

	Wheat flour—Imports	Wheat flour—Exports	Rye flour—Imports	Rye flour—Exports
1929	[illegible]	[illegible]	[illegible]	[illegible]
1928	[illegible]	16,128	[illegible]	66,193
1927	[illegible]	18,161	[illegible]	72,065
1926	620,653	[illegible]	[illegible]	69,353
1925	443,214	[illegible]	[illegible]	76,228
1924	416,105	[illegible]	[illegible]	[illegible]
1923	567,000	[illegible]	[illegible]	[illegible]
1922	539,333	[illegible]	20,384	72,852
1921	312,180	[illegible]	449	107,568
1920	[illegible]	[illegible]	1,216	131,780
1919	[illegible]	[illegible]	[illegible]	89,880

GRAIN, BUS

	Wheat—Imports	Wheat—Exports	Corn—Imports	Corn—Exports
1929	11,156,519	128,325	7,139,344	[illegible]
1928	9,351,633	146,290	24,659,181	......
1927	[illegible]	[illegible]	[illegible]	......
1926	[illegible]	[illegible]	[illegible]	......
1925	[illegible]	[illegible]	[illegible]	......
1924	6,958,844	81,372	14,686,901	......
1923	[illegible]	119,000	13,128,511	......
1922	2,139,000	318,000	17,117,090	......
1921	[illegible]	27,000	18,109,597	......
1920	[illegible]	[illegible]	9,791,587	......
1919	[illegible]	[illegible]	7,713,878	......

	Rye—Imports	Rye—Exports	Barley—Imports	Barley—Exports
1929	8,659,959	2,977	1,759,832	3,274,568
1928	6,462,258	6,296	2,303,243	3,307,906
1927	7,465,200	4,824	3,198,502	2,344,750
1926	8,254,598	10,096	2,800,089	3,015,931
1925	7,744,038	12,061	3,664,572	2,280,537
1924	[illegible]	18,931	7,401,786	2,883,104
1923	8,589,239	38,341	10,565,676	742,182
1922	4,271,163	2,629	1,802,905	1,588,511
1921	430,241	35,040	1,450,210	2,367,712
1920	382,999	479,377	25,079	676,122
1919	394,317	206,325	1,579,024	60,043

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Denmark, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	14,242	[illegible]	[illegible]	3,360	[illegible]
1928	13,051	*995	24,659	1,922	[illegible]
1927	5,059	854	32,925	1,792	[illegible]
1926	5,388	[illegible]	15,142	272	6,402
1925	6,518	1,334	17,947	1,487	7,509
1924	8,382	4,518	16,687	2,251	8,583
1923	7,885	[illegible]	13,129	597	8,393
1922	3,544	[illegible]	17,117	135	4,031
Average, 1909-13	6,164	[illegible]	11,361	1,428	7,727

*Net exports.

Norway—Imports and Exports

Imports and exports of Norway by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	807	803	[illegible]	[illegible]
Rye flour, bbls	[illegible]	[illegible]	[illegible]	[illegible]
Wheat, bus	3,817	4,391	..	..
Rye, bus	5,370	5,435	..	..
Corn, bus	4,518	3,189	..	..
Barley, bus	1,035	946	..	..
Oats, bus	260	351	5	10
Flaxseed, bus	647	566	..	..

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Norway, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	7,896	945	3,189	253	5,910
1928	7,212	1,034	4,518	[illegible]	5,991
1927	4,992	1,157	5,974	483	7,534
1926	6,231	1,729	4,231	1,284	7,296
1925	5,650	1,131	3,811	1,542	7,448
1924	6,542	2,702	3,047	2,256	8,784
1923	5,823	2,018	3,793	1,192	7,369
1922	5,619	1,586	3,537	594	6,410
1921	4,295	1,380	3,622	939	4,539
1920	5,718	1,321	2,574	*163	8,364
1919	7,387	782	2,743	*733	6,190
1918	4,260	657	2,531	11	3,098
1917	5,314	2,258	1,305	23	5,025
1916	7,326	2,465	1,889	[illegible]	7,322
1915	6,050	1,368	1,925	586	7,874
1914	5,453	4,007	1,672	499	8,095
1913	4,237	3,994	1,149	362	11,042
1912	3,087	3,962	1,471	773	9,168

*Net exports.

Germany—Imports and Exports

Imports and exports of Germany by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	431	389	623	[illegible]
Rye flour, bbls	[illegible]	[illegible]	[illegible]	453
Wheat, bus	90,507	78,241	9,989	11,451
Rye, bus	13,311	5,678	15,879	21,796
Corn, bus	50,483	26,303	1	6
Barley, bus	88,757	81,119	133	357
Oats, bus	10,882	7,632	21,131	34,891
Flaxseed, bus	17,499	12,417	[illegible]	147

Net imports (imports less exports) of grain and grain products (the latter in terms of grain) of Germany, by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats	Corn
1929	64,981	15,063	80,762	*27,229	26,297
1928	79,753	[illegible]	88,424	*10,252	50,481
1927	93,797	26,556	91,803	12,424	82,716
1926	71,474	*2,869	79,818	13,167	27,668
1925	68,608	4,365	43,301	23,429	21,312
1924	54,196	21,412	24,610	1,604	15,248
1923	24,759	27,581	14,387	2,194	9,356
1922	61,283	20,382	12,153	5,863	42,652
1921	*84,666	14,475	14,013	6,678	73,466
1920	22,662	16,831	3,342	*22	16,071
Average, 1909-13	68,561	*24,043	141,692	9,753	32,103

Flaxseed—

1929	12,270	1923	2,201
1928	17,342	1922	4,052
1927	14,631	1921	5,852
1926	13,474	1920	2,072
1925	9,788	Average, 1909-13	14,855
1924	6,036		

*Net exports.

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Liverpool—Wheat and Flour Imports

Imports of foreign wheat and of American (United States and Canadian) flour at Liverpool, England, by calendar years:

	Foreign wheat, bus	American flour, sacks of 280 lbs
1930	40,240,000	*164,000
1929	53,507,032	106,510
1928	41,220,000	114,624
1927	42,890,400	155,268
1926	37,028,800	189,100
1925	29,580,184	127,894
1924	44,062,000	217,700
1923	42,326,400	326,600
1922	36,498,400	280,500
1921	28,566,400	610,500
1920	46,087,200	668,900
1919	29,486,400	669,600
1918	26,272,800	3,468,400
1917	45,460,000	1,303,800
1916	50,818,400	479,100
1915	38,248,800	518,000
1914	45,000,000	406,430
1913	45,936,000	273,622
1912	46,504,000	246,481
1911	40,696,688	327,214
1910	46,704,376	257,085
1909	41,226,656	359,475
1908	42,603,232	616,000

*Of the 1930 imports, 102,000 sacks were shipped from United States ports and 62,000 from Canadian ports.

United Kingdom—Grain Imports*

Imports of grain into the United Kingdom, by fiscal years ended Aug. 31, in bushels (000's omitted):

	Wheat	Corn	Oats	Barley
1930	187,070	65,942	29,920	27,637
1929	194,774	66,630	32,264	30,013
1928	196,048	71,743	27,730	32,912
1927	199,402	76,205	20,100	29,001
1926	187,418	68,407	34,440	36,185
1925	194,448	57,723	35,328	35,329
1924	207,678	71,709	38,328	44,960
1923	183,538	70,251	32,831	38,224
1922	173,827	70,444	30,810	31,553
1921	164,000	69,274	32,081	31,600
1920	190,309	52,312	27,056	36,024
1919	130,650	22,605	26,875	27,319
1918	128,000	55,000	40,000	18,760
1917	148,000	46,000	50,000	21,984
1916	189,904	72,992	46,410	39,884
1915	184,335	96,027	55,193	28,580
1914	188,420	80,366	55,205	47,432
1913	210,627	99,060	71,836	50,080
1912	188,798	64,226	66,116	48,768
1911	188,914	91,903	59,740	45,009
1910	193,449	69,285	70,381	44,500
1909	166,558	74,120	52,421	48,907
1908	176,321	78,727	39,176	38,664

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

Belfast—Imports

Imports of flour, grain and feed at Belfast, Ireland, by calendar years, in tons of 2,240 lbs (000's omitted):

	1926	1927	1928	1929	1930
Barley	13	4	4	1	1
Bran	13	8	14	13	5	10
Cottonseed cake and meal	5	5	6	1	1
Feeding meal	25	17	18	23	21	20
Flour	80	72	86	74	73	76
Corn	215	210	289	255	283	291
Linseed cake	14	8	11	6	9	7
Oats	15	11	3	3	6	26
Rye	7	1	..	..	..	..
Wheat	94	74	95	68	83	91

United Kingdom—Flour Imports*

Imports of wheat flour into the United Kingdom, in sacks of 280 lbs, by fiscal years ended July 31:

1930	4,459,000	1919	7,598,000
1929	3,340,000	1918	10,400,000
1928	3,864,000	1917	5,500,000
1927	4,478,000	1916	4,049,000
1926	3,790,000	1915	4,356,000
1925	4,190,000	1914	4,610,000
1924	4,333,000	1913	4,504,000
1923	4,961,000	1912	5,860,000
1922	6,283,000	1911	4,028,000
1921	6,908,000	1910	4,340,000
1920	5,177,000	1909	4,426,000

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

UNITED KINGDOM—JUTE TRADE*

Exports of raw jute and manufactures thereof from United Kingdom, by calendar years:

	1930	1929	1928	1927	1926	1925	1924	1923
Raw jute, tons	10,151	10,862	10,437	16,604	17,051	16,840	11,194	11,889

JUTE SACKS, NEW, DOZENS (000'S OMITTED)

To	1930	1929	1928	1927	1926	1925	1924	1923
Russia	...	...	...	...	...	...	86	169
Sweden	...	...	...	...	5	14	14	6
Denmark	...	9	30	20	33	75	71	38
Germany	...	41	62	122	48	61	351	150
Netherlands	58	30	136	56	61	186	97	48
Belgium	...	59	63	47	40	40	31	40
Turkey	...	...	...	...	5	24	19	12
United States	...	...	...	...	...	11	5	10
Chile	116	144	144	94	87	64	69	27
Argentina	30	67	534	241	238	260	301	342
Canada	...	...	...	...	...	5	6	8
Other countries	990	878	1,252	1,056	1,160	1,411	1,679	1,335
Totals	1,194	1,228	2,221	1,638	1,673	2,141	2,789	2,183

JUTE YARN, LBS (000'S OMITTED)

To	1930	1929	1928	1927	1926	1925	1924	1923
Spain	...	955	670	642	666	583	598	326
United States	...	5	86	2,617	1,380	921	3,780	5,278
Brazil	12,132	14,863	15,703	16,455	15,369	15,738	12,020	9,598
Other countries	23,754	42,129	43,113	34,734	27,691	34,517	28,128	20,463
Totals	35,886	57,952	59,573	54,448	45,096	51,759	44,527	35,664

PIECE GOODS, SQUARE YARDS (000'S OMITTED)

To	1930	1929	1928	1927	1926	1925	1924	1923
France	2,646	2,628	2,100	1,380	1,611	10,216	4,973	1,514
United States	56,490	97,948	102,352	89,827	95,960	104,287	92,960	92,010
Brazil	...	92	81	714	902	481	533	978
Argentina	5,510	7,144	16,139	14,732	3,018	3,577	9,072	16,917
Australia	3,737	5,414	8,039	6,467	4,225	4,280	4,654	2,750
New Zealand	1,914	2,332	2,960	2,673	3,316	3,305	3,239	2,974
Canada	11,979	19,996	29,729	25,777	20,861	22,195	20,732	15,526
Other countries	27,585	35,583	30,865	31,620	30,213	35,489	29,943	24,701
Totals	109,860	171,037	192,265	172,190	160,005	183,830	166,106	157,371

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

United Kingdom—Net Imports*

Net imports (imports less exports) of breadstuffs into United Kingdom in the calendar years 1930 and 1929, compared with the average for 1910-1914 (000's omitted):

	1930	1929	1910-14
Wheat flour, bbls	4,016	3,316	5,675
Wheat, bus	195,704	206,864	194,257
Corn and corn meal, bus	69,647	71,815	82,279
Rice, lbs	231,640	240,685	416,153
All others, lbs	2,949,140	2,302,160	5,460,439

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain), rice, flaxseed and oil cake and meal into the United Kingdom, as officially reported, by calendar years (000's omitted):

	Bushels— Wheat	Barley	Corn	Oats
1930	214,111	31,157	69,547	34,519
1929	220,980	26,752	71,815	33,905
1928	203,512	28,928	65,776	27,926
1927	223,030	36,792	82,870	20,351
1926	197,317	25,755	61,657	28,426
1925	182,807	34,513	56,060	30,878
1924	230,317	48,600	73,678	37,944
1923	207,840	40,547	69,703	33,760
1922	214,920	28,380	78,112	32,150
1921	186,880	36,501	72,420	26,050
1920	210,771	29,441	71,114	25,459
1919	178,033	38,501	38,987	32,041
1918	174,979	11,660	32,272	55,455
1917	206,564	20,954	53,759	57,567
1916	209,124	35,365	68,748	47,715
1915	186,855	24,276	92,198	58,445
1914	212,894	35,645	75,379	51,553
1913	226,978	51,683	97,679	62,815
1912	225,160	45,003	87,996	64,293
1911	203,307	56,699	77,359	61,940

	Rye, bus	Flaxseed, bus	Rice, lbs	Oil cake and meal, lbs
1930	....	8,965	234,640	806,105
1929	643	11,402	240,688	842,551
1928	1,440	13,893	259,952	530,850
1927	584	14,080	244,832	893,240
1926	552	14,324	220,463	852,520
1925	941	13,521	270,313	851,028
1924	1,276	17,860	292,880	693,100
1923	1,186	15,153	288,400	559,033
1922	831	14,092	66,240	614,262
1921	1,793	18,528	493,236	712,344
1920	1,930	15,576	146,540	459,674
1919	1,521	20,630	80,546	611,912
1918	5,292	9,729	847,214	24,076
1917	5,353	7,464	807,680	474,659
1916	2,054	20,055	931,101	632,260
1915	1,392	17,011	1,187,934	910,581
1914	2,064	18,213	671,856	657,969
1913	2,272	24,321	768,203	551,865
1912	1,962	10,597	761,415	794,109
1911	2,836	10,364	689,830	705,442

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

United Kingdom—Imports and Exports

United Kingdom imports and exports of grain (including flour and meal in terms of grain) by calendar years, in bushels (000's omitted):

IMPORTS

	Wheat	Corn	Barley	Rye	Oats
1930..	227,314	76,480	34,201	....	35,784
1929..	234,611	78,046	26,831	666	26,895
1928..	216,944	71,803	29,040	1,443	28,375
1927..	235,350	89,263	36,968	656	22,421
1926..	209,376	67,157	25,872	712	29,610
1925..	206,752	63,648	35,552	1,103	32,330
1924..	249,207	79,036	48,700	1,528	39,741
1923..	218,527	72,119	40,862	1,408	37,013
1909-13	219,166	82,976	61,727	2,196	64,756

EXPORTS

	Wheat	Corn	Barley	Rye	Oats
1930...	13,203	6,933	[illegible]	..	976
1929...	13,631	6,230	79	23	1,010
1928...	13,432	6,028	112	[illegible]	540
1927...	12,320	6,393	176	78	2,070
1926...	12,112	5,349	120	166	1,200
1925...	20,672	6,901	804	162	1,110
1924...	19,407	6,570	109	65	1,193
1923...	12,306	5,030	117	224	984
1909-13	4,514	96	932	[illegible]	1,411

Percentage of total imports into the United Kingdom received from the countries specified:

WHEAT

	1930	1929	1928	1909-1913
United States	20.1	20.0	22.9	8.7
Argentina	14.4	40.6	23.5	16.2
Australia	[illegible]	11.5	9.9	[illegible]
Canada	24.9	24.3	39.6	27.0
India	3.2	0.1	1.5	18.7
Russia	16.3	*..	*..	15.3
Other countries	9.0	3.5	[illegible]	2.7
	100.0	100.0	100.0	100.0

WHEAT FLOUR

	1930	1929	1928	1909-1913
United States	[illegible]	26.1	21.5	45.3
Canada	[illegible]	[illegible]	54.6	37.0
Australia	[illegible]	[illegible]	[illegible]	4.5
Argentina	[illegible]	[illegible]	[illegible]	1.1
France	[illegible]	[illegible]	[illegible]	3.8
Germany	1.3	*..	*..	4.3
Other countries	3.7	8.1	2.5	4.0
	100.0	100.0	100.0	100.0

BARLEY

	1930	1929	1928	1909-1913
United States	23.7	[illegible]	36.9	12.6
Canada	2.3	[illegible]	15.8	3.4
Roumania	14.5	[illegible]	5.7	11.3
Chile	[illegible]	3.9	4.8	1.8
Russia	*..	*..	*..	33.1
Turkey	*..	*..	*..	12.3
India	*..	*..	*..	12.0
Other countries	56.8	36.9	36.8	13.6
	100.0	100.0	100.0	100.0

OATS

	1930	1929	1928	1909-1913
United States	0.6	[illegible]	[illegible]	[illegible]
Canada	[illegible]	13.3	[illegible]	7.9
Argentina	[illegible]	26.5	21.9	31.3
Russia	*..	*..	*..	31.9
Germany	12.9	33.0	*..	13.4
Other countries	31.3	22.9	43.8	11.3
	100.0	100.0	100.0	100.0

CORN

	1930	1929	1928	1909-1913
United States	...	10.4	[illegible]	16.3
Argentina	65.4	69.3	[illegible]	54.7
Canada	*..	*..	*..	1.3
Roumania	13.1	0.5	[illegible]	12.8
Russia	*..	*..	*..	9.0
South Africa	13.4	13.6	12.6	2.0
Other countries	6.1	6.2	7.9	3.9
	100.0	100.0	100.0	100.0

*Included in "other countries."

United Kingdom—Flaxseed Imports*

Imports of flaxseed into the United Kingdom, by calendar years, in bushels (000's omitted):

1930	8,982	1921	16,111
1929	11,420	1920	15,520
1928	13,943	1919	22,116
1927	14,118	1918	10,476
1926	14,424	1917	8,026
1925	13,619	1916	20,023
1924	17,804	1915	16,287
1923	15,260	1914	19,056
1922	14,789	1913	25,961

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

Austria—Imports and Exports

Imports and exports into Austria by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	1,351	1,610	8	9
Rye flour, bbls	91	78	[illegible]	[illegible]
Wheat, bus	8,429	8,601	40	38
Rye, bus	3,911	4,121	38	43
Corn, bus	5,686	4,917	9	33
Barley, bus	2,079	3,100	91	[illegible]
Oats, bus	5,302	6,966	9	5
Flaxseed, bus	15	16	..	..

Net imports (imports less exports) of grain and grain products (the latter in terms of grain) into Austria by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	15,810	3,078	4,884	6,961	4,408
1928	14,621	1,989	5,676	5,293	4,267
1927	16,072	2,449	7,859	6,775	4,495
1926	16,868	3,326	6,790	5,213	3,786
1925	13,786	2,791	6,566	5,698	3,331
1924	18,098	4,452	3,936	6,812	5,340
1923	16,872	4,542	2,862	5,737	4,826
1922	15,676	1,968	3,576	2,057	3,950
1921	17,833	1,303	6,653	813	2,290
1920	15,546	606	5,077	233	2,126
Av. 1909-13	3,026	*7,141	13,595	2,266	1,430

*Net exports.

IMPORTS OF WHEAT AND FLOUR INTO THE UNITED KINGDOM

Imports of wheat and flour into the United Kingdom, by principal ports of entry, by calendar years, as reported by the London Grain, Seed and Oil Reporter, in cwts of 112 lbs (000's omitted):

	London Wheat	London Flour	Liverpool Wheat	Liverpool Flour	Hull Wheat	Hull Flour	Bristol Wheat	Bristol Flour	Tyne ports Wheat	Tyne ports Flour	Leith Wheat	Leith Flour
1930..	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....
1929..	26,361	3,045	29,553	962	17,093	260	14,558	315	3,126	250	2,792	712
1928..	26,391	2,695	[illegible]	670	16,691	170	15,274	362	[illegible]	200	[illegible]	[illegible]
1927..	[illegible]	3,515	23,074	850	18,680	115	16,648	440	3,759	390	[illegible]	[illegible]
1926..	[illegible]	[illegible]	[illegible]	862	16,797	128	7,993	368	3,073	255	2,543	890
1925..	[illegible]	[illegible]	[illegible]	627	15,370	111	12,870	347	2,928	323	2,485	723
1924..	[illegible]	[illegible]	23,632	835	18,953	70	9,916	457	3,638	275	[illegible]	[illegible]
1923..	[illegible]	[illegible]	22,829	837	15,980	97	7,969	508	[illegible]	238	[illegible]	1,259
1922..	21,224	4,287	19,553	952	15,721	155	7,904	490	[illegible]	100	2,430	[illegible]
1921..	18,964	4,774	15,304	1,626	11,733	134	6,122	546	[illegible]	49	2,607	[illegible]
1920..	22,466	4,412	24,690	1,672	11,994	322	9,536	480	1,324	...	2,700	[illegible]
1919..	14,486	5,457	15,796	1,674	6,964	676	6,273	1,479	894	210	1,765	[illegible]
1918..	14,347	6,716	14,075	8,647	4,759	1,106	5,271	1,406	1,165	75	547	120
1917..	[illegible]	4,026	24,364	3,260	7,129	595	7,273	826	2,250	[illegible]	1,574	427
1916..	[illegible]	3,466	27,224	1,198	11,340	56	6,999	303	2,809	...	2,009	728
1915..	17,100	4,594	20,546	1,298	13,213	126	7,127	442	1,393	...	2,627	692
1914..	21,150	4,196	24,608	996	16,744	162	8,179	556	2,869	78	[illegible]	[illegible]
1913..	[illegible]	4,793	24,630	1,309	17,765	217	7,941	622	2,780	17	2,529	1,222
1912..	[illegible]	3,866	25,257	1,118	19,629	257	7,310	496	2,374	[illegible]	2,518	1,005
1911..	18,660	3,648	[illegible]	1,232	17,697	142	5,306	508	2,320	19	[illegible]	878
1910..	19,478	3,980	[illegible]	1,109	18,500	[illegible]	6,336	504	2,297	27	[illegible]	704
1909..	19,246	4,307	22,252	1,203	17,980	182	5,594	391	2,617	14	[illegible]	713
1908..	16,800	4,910	22,820	1,800	16,100	200	4,940	560	2,670	[illegible]	[illegible]	830
1907..	17,340	4,790	24,200	1,825	18,000	235	4,890	486	3,130	[illegible]	[illegible]	990
1906..	16,350	5,340	23,800	1,820	16,570	420	4,740	540	2,960	40	2,660	1,120
1905..	16,360	4,330	24,040	1,890	19,110	200	5,150	340	2,770	25	2,390	[illegible]
1904..	16,810	5,700	24,530	1,900	18,310	320	4,920	680	[illegible]	40	2,830	[illegible]
1903..	[illegible]	7,080	23,800	3,010	16,280	160	5,910	815	[illegible]	50	3,080	1,250
1902..	12,050	6,840	24,400	3,300	13,800	162	5,290	860	[illegible]	65	2,880	1,070
1901..	10,050	8,291	22,305	4,929	12,318	327	4,857	1,124	[illegible]	53	[illegible]	[illegible]
1900..	9,486	7,610	20,505	4,284	11,533	580	3,832	901	1,950	83	[illegible]	867
1899..	[illegible]	7,848	[illegible]	5,144	10,944	550	4,060	990	1,887	[illegible]	2,445	952
1898..	[illegible]	7,050	[illegible]	4,507	11,648	270	4,350	1,178	1,565	94	2,882	1,122
1897..	10,506	5,721	19,675	3,565	10,572	403	3,822	945	1,037	68	3,335	1,053

	Glasgow Wheat	Glasgow Flour	Dublin Wheat	Dublin Flour	Belfast Wheat	Belfast Flour	Cork Wheat	Cork Flour	All other ports Wheat	All other ports Flour	Totals Wheat	Totals Flour
1930...	....	....	....	....	....	....	....	....	....	....	109,950	15,070
1929...	3,613	2,017	2,710	919	1,657	326	971	327	14,194	3,055	116,667	12,877
1928...	3,675	[illegible]	1,994	1,016	1,230	430	911	341	13,569	3,090	108,477	12,102
1927...	[illegible]	[illegible]	3,048	1,126	2,112	613	1,071	323	13,855	3,235	116,809	14,337
1926...	[illegible]	2,898	2,597	575	1,413	620	913	[illegible]	18,454	3,949	102,355	13,856
1925...	3,194	2,737	2,406	465	1,639	471	1,036	18	13,140	3,668	102,133	12,273
1924...	3,993	3,120	2,661	808	1,887	595	1,264	[illegible]	23,266	1,306	121,345	11,373
1923...	3,435	3,125	2,442	703	1,243	892	1,049	208	21,103	971	103,849	12,320
1922...	2,392	3,475	[illegible]	885	1,282	890	1,074	[illegible]	19,962	885	96,374	13,481
1921...	2,591	4,291	2,212	1,202	1,125	968	1,193	130	15,890	1,935	80,478	15,841
1920...	5,558	2,835	3,111	460	2,490	650	1,941	[illegible]	23,594	548	109,404	11,970
1919...	4,372	4,120	[illegible]	554	1,857	614	1,183	148	14,716	1,739	71,443	17,711
1918...	4,163	3,950	[illegible]	565	1,716	717	931	97	9,370	2,962	57,947	26,360
1917...	6,121	2,469	1,946	705	1,546	459	1,326	[illegible]	17,011	1,640	91,436	14,340
1916...	4,703	3,138	2,847	278	1,613	410	927	...	19,640	334	100,070	9,940
1915...	3,770	2,933	2,408	379	1,063	572	811	...	18,610	57	98,669	10,482
1914...	3,791	2,006	2,296	458	1,230	676	876	[illegible]	19,328	203	103,927	10,066
1913...	4,814	2,366	2,604	344	1,856	730	1,048	3	20,935	355	105,877	11,978
1912...	4,487	2,355	2,390	314	1,646	550	803	[illegible]	21,219	212	109,672	10,190
1911...	3,492	2,425	2,684	308	1,596	594	776	5	21,219	312	98,067	10,065
1910...	3,759	2,283	1,989	319	1,914	513	859	19	22,119	340	105,223	9,940
1909...	3,304	2,758	1,930	304	1,749	596	1,000	20	19,704	564	97,858	11,052
1908...	2,920	3,100	1,820	350	1,580	770	620	[illegible]	18,362	410	91,132	12,970
1907...	3,240	3,100	1,350	500	1,340	960	990	10	19,838	372	97,169	[illegible]
1906...	2,640	3,210	2,040	480	1,500	870	730	10	18,977	340	92,967	14,190
1905...	2,740	2,695	2,330	420	1,220	760	1,010	20	20,502	300	97,622	11,955
1904...	2,690	3,325	2,170	450	1,000	900	920	10	20,703	398	97,783	14,723
1903...	2,400	4,810	1,760	940	695	1,925	740	1	16,385	460	88,130	20,601
1902...	2,250	4,100	1,700	990	570	1,365	690	...	14,572	644	81,002	19,386
1901...	1,723	4,032	1,574	951	212	1,384	628	...	10,993	562	69,708	22,676
1900...	1,886	4,310	1,084	1,201	202	1,268	1,083	...	14,486	439	68,670	21,548
1899...	1,937	4,765	1,365	1,114	113	1,130	1,139	1	10,427	890	66,637	22,916
1898...	1,605	4,325	1,122	1,299	116	792	1,010	...	9,522	380	65,229	21,017
1897...	1,744	4,127	1,226	978	199	1,018	1,171	...	9,393	802	62,740	19,680

United Kingdom—Wheat and Flour Imports*

Total imports of wheat and flour into the United Kingdom, by fiscal years ended Aug. 31 (000's omitted):

	Wheat, bus	Flour, bbls	Total as wheat, bus
1930	157,070	6,830	216,455
1929	191,774	4,968	217,132
1928	196,018	5,668	221,554
1927	199,402	6,445	228,404
1926	187,418	5,722	213,168
1925	194,448	6,235	222,507
1924	207,678	5,734	233,481
1923	183,638	5,779	209,543
1922	173,827	8,792	213,390
1921	164,000	8,271	201,220
1920	190,309	5,948	217,075
1919	130,650	10,637	178,516
1918	128,000	14,560	193,500
1917	148,000	7,400	181,000
1916	189,904	5,668	215,412
1915	184,335	6,055	211,583
1914	188,420	6,370	217,089
1913	210,627	6,376	239,317
1912	188,798	5,700	214,450
1911	188,914	5,485	213,596
1910	193,449	6,076	220,783
1909	166,558	6,195	194,436
1908	176,321	7,652	210,757
1907	178,296	7,427	211,717
1906	176,486	7,983	212,407
1905	194,222	6,223	[illegible]
1904	173,146	10,862	223,024
1903	156,418	10,764	204,856
1902	141,808	11,039	191,483
1901	129,408	12,921	187,551
1900	121,579	12,211	176,529
1899	123,183	12,478	179,335
1898	118,684	11,460	170,254

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

Irish Free State—Imports

Imports of grain, flour, cereals and feed into the Irish Free State by calendar years, in hundredweights (112 lbs) (000's omitted):

	*1930	*1929	1928	1927
Wheat	4,692	5,600	4,893	6,373
Barley	300	458	233	214
Corn	6,567	6,630	7,469	7,536
Oats	169	75	65	114
Wheat flour	3,033	2,509	3,174	3,380
Oatmeal	64	56	60	66
Millfeed	645	685	[illegible]	608
Cottonseed cake and meal	329	294	270	363
Linseed cake and meal	462	525	562	508

*The 1929 and 1930 figures are for the 11 months January-November.

United Kingdom—Domestic Flour Exports*

Exports of domestic flour from the United Kingdom, by calendar years (000's omitted):

	280-lb sacks	196-lb bbls		280-lb sacks	196-lb bbls
1930	1,608	2,384	1907	[illegible]	692
1929	1,730	2,564	1906	420	[illegible]
1928	1,750	2,593	1905	459	[illegible]
1927	1,674	2,480	1904	283	404
1926	1,615	2,393	1903	259	370
1925	2,752	4,077	1902	314	449
1924	2,552	3,781	1901	467	[illegible]
1923	1,562	2,231	1900	[illegible]	640
1922	832	1,188	1899	367	524
1921	[illegible]	890	1898	[illegible]	409
1920	91	127	1897	[illegible]	312
1919	79	110	1896	280	400
1918	50	70	1895	191	272
1917	93	130	1894	[illegible]	258
1916	412	574	1893	[illegible]	[illegible]
1915	601	863	1892	[illegible]	[illegible]
1914	767	1,095	1891	[illegible]	226
1913	653	933	1890	[illegible]	216
1912	658	940	1889	[illegible]	221
1911	563	805	1888	[illegible]	216
1910	507	726	1887	130	[illegible]
1909	518	783	1886	112	[illegible]
1908	692	958			

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

United Kingdom—Pre-War Imports

Imports of wheat and wheat flour into the United Kingdom, indicating the pre-war sources of the United Kingdom's wheat and flour supply (000's omitted):

WHEAT, BUS

From—	1911	1912	1913	1914
Argentina	27,531	35,061	27,545	12,157
United States	24,153	37,285	63,894	62,877
Russia	33,798	16,809	9,354	13,505
India	37,635	47,374	35,029	19,390
Canada	26,331	40,228	40,671	53,720
Australia	25,967	22,230	18,204	22,611
Roumania	3,644	1,301	72	663
All others	3,578	4,246	2,470	2,528
Totals	183,137	204,536	197,639	184,031

FLOUR, CWTS OF 112 LBS

From—	1911	1912	1913	1914
Germany	282	370	456	216
Belgium	35	36	32	37
France	400	371	302	364
Aus.-Hungary	106	116	100	55
United States	5,116	4,213	6,158	5,558
Argentina	89	100	131	58
Australia	445	690	343	243
Canada	3,269	4,004	4,169	3,227
All others	322	283	222	236
Totals	10,064	10,189	11,979	10,060

United Kingdom—Imports*

Imports of wheat flour, wheat, corn, barley and oats into the United Kingdom by calendar years, as reported by the British government (000's omitted):

WHEAT FLOUR, BBLS

From—	1930	1929	1928	1927
United States	1,883	1,302	[illegible]	1,727
Canada	2,661	2,207	2,892	[illegible]
Australia	1,015	790	581	[illegible]
All other	1,396	1,250	683	[illegible]
Totals	6,955	5,719	5,291	6,493

WHEAT, BUS

From—	1930	1929	1928	1927
United States	39,344	41,560	[illegible]	[illegible]
Canada	48,936	50,760	[illegible]	60,072
Argentina	28,384	84,704	[illegible]	36,312
Australia	23,741	23,868	19,104	[illegible]
All other	55,618	7,720	7,984	[illegible]
Totals	196,016	208,632	193,344	206,144

CORN, BUS

From—	1930	1929	1928	1927
United States	[illegible]	7,291	3,060	1,191
Roumania	8,966	324	[illegible]	[illegible]
Argentina	44,846	48,403	[illegible]	[illegible]
All other	14,749	13,800	13,543	8,859
Totals	68,580	69,823	66,026	83,563

BARLEY, BUS

From—	1930	1929	1928	1927
United States	8,144	9,752	10,736	12,009
Canada	776	3,088	4,603	3,054
All other	23,320	13,991	13,696	21,912
Totals	31,200	26,831	29,040	36,968

OATS, BUS

From—	1930	1929	1928	1927
United States	178	1,039	[illegible]	1,196
Canada	[illegible]	[illegible]	[illegible]	1,850
Argentina	7,530	[illegible]	5,715	7,726
All others	25,070	13,831	11,392	9,309
Totals	33,509	21,723	26,055	20,681

*Subsequent to April 1, 1923, statistics for the Irish Free State have been omitted.

Glasgow—Imports

Imports of flour (sacks of 280 lbs) and grain (cwts of 112 lbs) at Glasgow, by calendar years (000's omitted):

	Flour, sacks	Wheat	Barley	Oats	Oat'l	Corn
1930	1,162	3,207	793	561	102	1,111
1929	1,142	4,270	[illegible]	[illegible]	135	1,869
1928	1,063	3,802	883	554	167	1,370
1927	1,260	3,679	800	461	175	1,835
1926	1,209	3,374	467	536	185	956
1925	1,165	3,353	941	770	214	1,788
1924	1,275	3,334	1,134	833	281	1,722
1923	1,326	3,442	1,311	685	233	1,843
1922	1,456	2,927	1,029	766	220	2,032

Imports of flour (sacks of 280 lbs) and grain (quarters of 8 bus, varying weights) at Glasgow, to 1916 (000's omitted):

Year	Wheat qrs	Flour sacks	Barley qrs	Oats qrs	Oat'l loads	Corn qrs
1916	1,055	1,389	534	227	116	471
1915	955	1,146	234	212	116	520
1914	924	1,050	316	320	133	408
1913	1,163	1,179	384	363	140	516
1912	1,125	1,236	281	346	151	431
1911	846	1,250	243	394	148	471
1910	930	1,372	256	342	135	396
1909	770	1,521	309	382	149	471
1908	705	1,483	290	370	150	353
1907	777	1,581	356	307	[illegible]	482
1906	[illegible]	1,647	341	285	124	595
1905	698	1,564	344	311	[illegible]	612
1904	595	1,532	332	[illegible]	133	483
1903	547	2,021	339	267	[illegible]	793
1902	532	1,763	343	204	[illegible]	679
1901	414	1,730	353	242	109	811
1900	440	1,724	288	256	103	930

AMERICAN FLOUR IMPORTS

Glasgow imports of flour from the Atlantic seaboard, which includes American and Canadian flour, in sacks of 280 lbs:

1930	809,139	1915	955,801
1929	792,045	1914	769,629
1928	779,275	1913	850,746
1927	1,002,398	1912	856,778
1926	982,129	1911	924,239
1925	877,264	1910	826,170
1924	962,000	1909	931,000
1923	1,032,468	1908	1,070,000
1922	1,210,133	1907	1,120,000
1916	1,263,711	1906	1,046,000

United Kingdom—Imports from United States

Imports of wheat, and of flour expressed as wheat, from the United States into the United Kingdom, by fiscal years ended July 31 (000's omitted):

Year—	Bushels: Wheat	Bushels: Flour as wheat	Bushels: Total as wheat	Per ct. to total imports
1930	49,816	8,334	[illegible]	22.3
1929	38,610	4,511	43,121	20.2
1928	56,616	6,712	63,328	28.0
1927	68,704	8,640	77,344	31.7
1926	49,184	5,073	[illegible]	[illegible]
1925	54,464	10,576	65,040	[illegible]
1924	56,576	7,800	64,376	[illegible]
1923	68,112	10,723	78,834	37.2
1922	68,662	12,600	81,262	38.0
1921	89,924	10,230	100,154	46.6
1920	[illegible]	17,930	66,418	26.0
1919	58,000	25,000	83,000	43
1918	44,000	43,000	87,000	45
1917	100,000	19,270	119,270	[illegible]
1916	117,857	13,791	131,649	[illegible]
1915	78,084	18,636	96,720	45.7
1914	54,721	13,823	68,544	31.6
1913	55,100	13,583	68,683	28.6
1912	31,103	11,506	42,610	19.9
1911	16,192	12,918	29,112	18.6
1910	27,868	15,521	43,389	19.4
1909	37,942	18,476	56,418	28.98
1908	48,293	25,631	73,924	35.07
1907	37,634	23,574	61,208	28.9
1906	30,393	22,845	53,238	25.1
1905	0,902	9,326	18,628	[illegible]
1904	35,404	23,979	59,383	26.5
1903	64,452	40,490	104,920	50.7
1902	78,773	39,492	118,265	61.7

Italy—Imports and Exports

Imports and exports of Italy by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls..	41	42	290	761
Rye flour, bbls....	7	8	..	..
Wheat, bus	100,756	64,683	55	7
Rye, bus	131	175	..	1
Corn, bus	35,898	30,158	21	20
Barley, bus	858	789	6	20
Oats, bus	7,338	4,786	2	1
Flaxseed, bus	2,628	....	..	..

NET IMPORTS

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Italy, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929..	61,487	769	30,138	4,786	207
1928..	99,676	852	36,877	7,336	163
1927..	83,598	1,102	16,267	8,448	141
1926..	77,323	929	18,956	8,078	771
1925..	78,111	896	6,323	8,629	60
1924..	70,628	379	4,763	6,031	*323
1923..	97,671	1,354	17,307	11,007	195
1922..	97,481	1,382	19,818	7,967	104
1921..	106,666	1,640	17,933	8,161	2,816
1920..	78,297	1,586	12,595	3,146	2,390
1919..	94,589	1,194	8,232	11,862	369
1918..	78,348	7,526	10,856	19,265	3,606
1917..	76,227	1,380	7,914	19,733	1,440
1916..	72,893	256	2,143	37,984	1
1915..	82,028	617	7,788	27,610	4
1914..	33,459	1,046	3,028	4,437	376
1913..	61,837	711	13,486	7,272	1,243
1912..	62,868	871	20,990	10,741	621
1911..	47,829	782	14,966	8,796	292

*Net exports.

Netherlands—Imports and Exports

Imports and exports of the Netherlands by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls.	1,956	1,402	60	105
Rye flour, bbls....	5	15	47	18
Wheat, bus	20,963	24,050	319	327
Rye, bus	3,306	4,140	319	185
Corn, bus	47,629	39,067	444	555
Barley, bus	15,388	14,660	1,035	1,049
Oats, bus	6,637	9,222	410	722
Flaxseed, bus	16,463	14,171	164	263

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into the Netherlands, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929..	23,778	13,611	38,512	8,500	3,939
1928..	29,108	14,053	47,187	6,227	2,760
1927..	32,637	10,839	56,677	6,841	3,780
1926..	26,396	13,604	39,460	6,246	3,778
1925..	25,932	12,104	34,266	5,896	4,269
1924..	28,245	12,276	33,598	6,694	7,296
1923..	24,664	12,538	27,669	3,900	4,137
1922..	21,149	8,238	34,285	4,714	912
1921..	20,021	6,099	36,035	3,142	249
1920..	19,099	1,863	15,529	1,647	*1,487
1919..	17,866	7,032	9,596	2,743	1,423
1918..	2,224	136	346	...	761
1917..	11,799	2,337	8,528	2,712	366
1916..	30,198	6,682	27,513	4,886	1,141
1915..	26,936	6,418	42,529	4,299	2,206
1914..	20,368	10,210	21,329	5,566	7,120
1913..	25,033	12,183	27,621	7,680	11,982
1912..	22,866	9,388	24,706	9,988	11,341
1911..	21,628	13,147	19,804	6,694	12,196

*Net exports.

Roumania—Imports and Exports

Exports from Roumania by calendar years (000's omitted):

	1928	1927	1926
Wheat, bus	1,022	7,658	9,979
Wheat flour, bbls.....	279	741	1,186
Rye, bus	1,278	2,400	1,644
Corn, bus	18,590	69,469	27,109
Barley, bus	19,069	32,348	26,726
Oats, bus	1,128	6,162	4,214

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) from Roumania, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929..	265	...	...	...	...
1928..	2,274	19,069	18,596	1,128	1,278
1927..	11,017	32,347	69,469	6,165	2,401
1926..	16,243	26,725	27,103	4,213	1,016
1925..	521	8,403	22,771	1,424	22
1924..	10,266	12,697	29,293	6,346	1,221
1923..	2,606	37,630	26,647	12,142	406
1922..	2,078	26,495	11,888	16,072	1,196
1921..	2,894	17,810	30,228	11,417	2,313
1920..	55	19,281	16,479	2,440	1,566
1919..	*6,614	*20	*570	*330	*101
1918..	3,098	6,996	17,830	2,199	396
1914..	23,791	9,909	44,840	5,750	1,236
1913..	48,606	17,253	38,175	11,886	2,665
1912..	54,022	10,819	42,266	1,870	2,441
1911..	66,682	21,947	60,918	16,051	5,080

*Net imports.

Porto Rico—Imports

Imports of grain and grain products from continental United States into Porto Rico, by years ending June 30:

	Wheat flour, bbls	Corn, bus	Corn meal, bbls	Oats, bus
1930...	423,330	1,420	91,880	151,074
1929...	512,627	*38,735	130,715	197,981
1928...	377,727	179,676	75,398	221,193
1927...	464,384	259,682	134,222	260,747
1926...	392,824	241,775	93,285	266,792
1925...	408,761	161,433	72,111	272,577
1924...	431,248	167,661	91,977	310,487
1923...	426,071	.....	77,390	259,606
1922...	390,601	.....	77,846	204,499
1921...	380,704	.....	66,764	205,289
1920...	460,034	.....	70,666	111,211
1919...	387,961	.....	22,913	128,466
1918...	296,796	.....	33,566	131,929
1917...	310,616	.....	78,339	200,905
1916...	337,299	.....	90,653	236,246

*Imports of 222,387 bus of corn came from other countries, chiefly from Dominican Republic.

EXPORTS AND IMPORTS OF VARIOUS COUNTRIES

Exports and imports of various countries by calendar years (000's omitted):

EXPORTS

	Wheat flour, bbls 1928	Wheat flour, bbls 1929	Wheat, bus 1928	Wheat, bus 1929	Rye flour, bbls 1928	Rye flour, bbls 1929	Rye, bus 1928	Rye, bus 1929
Argentina	1,894	1,534	194,560	242,930	....	....	....	....
Australia	4,868	5,530	58,377	74,877	....	....	....	....
Austria	8	9	40	38	4	4	38	43
Belgium	357	253	1,478	1,095	....	....	73	9
Bulgaria	94	14	752	123	....	....	952	148
Canada	10,737	9,574	365,429	210,916	....	....	9,938	1,938
Chile	80	84	431	3	....	....	....	....
Germany	623	742	9,989	11,451	295	453	15,879	21,766
Hungary	2,199	2,939	10,409	17,798	93	64	4,760	4,530
India	667	533	5,528	2,536	....	....	....	....
Jugoslavia	22	119	5,939	20,354	....	....	29	66
Netherlands	60	106	319	327	47	18	319	185
Roumania	279	....	1,022	265	....	....	1,278	....
Russia	....	....	133	....	....	....	383	12
United States	11,852	13,663	96,290	90,130	31	15	11,499	3,434

IMPORTS

	Wheat flour, bbls 1928	Wheat flour, bbls 1929	Wheat, bus 1928	Wheat, bus 1929	Rye flour, bbls 1928	Rye flour, bbls 1929	Rye, bus 1928	Rye, bus 1929
Austria	1,351	1,610	8,429	8,604	91	76	3,911	4,131
Belgium	187	313	43,526	43,236	....	....	299	981
Brazil	2,343	1,824	25,452	29,386	....	....	....	....
Czechoslovakia	1,961	1,835	10,933	6,116	64	12	4,480	848
Denmark	872	731	9,252	11,157	22	46	6,462	8,660
Egypt	1,771	2,615	413	1,117	....	....	....	....
France	218	163	37,357	51,800	4	2	191	759
Germany	431	339	98,587	78,241	6	7	13,311	5,678
Greece	650	350	17,421	21,966	....	....	1	2
Italy	41	42	100,756	64,683	7	8	131	175
Japan	93	78	24,066	27,175	....	....	....	....
Netherlands	1,956	1,402	20,963	24,050	5	15	3,306	4,140
Norway	807	803	3,617	4,391	145	111	5,370	6,435
Spain	....	....	11,566	12,613	....	....	....	....
Sweden	216	187	9,633	10,076	19	28	3,865	3,832
Switzerland	....	....	16,708	17,141	....	....	12	196
United Kingdom	5,291	5,749	193,344	208,632	....	....	....	....

Spain—Imports and Exports

Imports and exports of Spain by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls..	..	..	86	59
Wheat, bus	11,566	12,613	..	23
Rye, bus	..	..	1	..
Corn, bus	13,189	11,141	1	..
Barley, bus	71	263	524	282

Net imports (imports less exports) of grain and grain products (the latter in terms of grain), by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Corn	Flaxseed
1929.....	12,325	..	*9	11,141	746
1928.....	11,113	*1	*453	13,188	916
1927.....	*761	..	*960	12,126	508
1926.....	*605	18	82	13,986	612
1925.....	643	*1	1,141	18,465	616
1924.....	*559	*3	*1,394	11,793	619
1923.....	*111	*1	162	12,294	643
1922.....	4,370	*1	1,443	17,564	...
1921.....	17,444	*3	6,597	11,354	...
1920.....	17,972	*2	*1,266	7,618	...
1919.....	12,419	*2	*1,024	2,022	...
1918.....	5,951	*63	*662	316	...
1917.....	719	*74	*417	2,005	...
1916.....	11,016	*1	*2,093	4,151	...
1915.....	13,368	...	*1,826	8,052	...
1914.....	16,246	*5	312	7,879	...
Average, 1909-13	4,398	*27	494	9,714	...

*Net exports.

Lithuania—Flaxseed Exports

Exports of flaxseed from Lithuania, in bushels, by calendar years:

1929.........	969,130	1925.........	800,442
1928.........	274,837	1924.........	732,441
1927.........	983,207	1923.........	743,178
1926.........	1,012,468		

Jamaica—Imports

Imports into Jamaica by calendar years:

	Wheat flour, bbls	Wheat, bushels	Corn, bushels	Oats, bushels
1929...	383,168	3,523	75,460	65,761
1928...	400,786	2,668	94,666	65,874
1927...	330,904	2,868	87,190	57,132
1926...	283,978	2,591	106,806	65,874
1925...	283,106	2,543	93,805	64,473
1924...	350,086	1,929	133,986	68,779
1923...	377,643	819	172,590	75,507
1922...	280,491	466	176,879	61,362
1921...	264,066	448	108,636	45,478

Poland—Imports and Exports

Imports and exports of Poland by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat, bus	8,276	1,102	79	71
Wheat flour, bbls..	33	18	1	35
Rye, bus	4,230	57	278	7,875
Rye flour, bbls....	5	....	22	27
Barley, bus	154	20	5,112	11,237
Oats, bus	1,423	463	537	250
Corn, bus	2,139	687	12	10
Flaxseed, bus	850	817	317	571

Net imports, (imports less exports) of grain and grain products (the latter in terms of grain), by calendar years (000's omitted):

	Wheat	Rye	Barley	Corn	Oats
1929...	1,048	*7,937	*11,217	677	213
1928...	8,340	3,889	*4,958	2,127	886
1927...	10,002	4,893	*2,774	5,377	2,894
1926...	*1,827	*8,423	*6,342	820	*4,136
1925...	9,699	*2,454	*4,606	1,721	3,449
1924...	6,106	*4,314	*5,871	179	*410
1923...	2,492	36	*965	91	37
1922...	807	*1,237	*757	659	19

*Net exports.

WORLD'S FLAXSEED TRADE

Net exports and imports of flaxseed by the principal exporting and importing countries, by calendar years, in bushels (000's omitted):

NET EXPORTS

	Argentina	India	Canada	China	Russia	Tunis	Uruguay	Morocco
1929............	63,568	9,988	860	...	...	39	2,174	358
1928............	70,416	6,829	2,060	9	...	64	2,375	378
1927............	74,458	8,654	1,828	220	94	45	2,269	475
1926............	65,752	7,437	1,840	145	1,831	27	2,089	295
1925............	39,982	14,022	5,502	189	1,911	60	1,471	304
1924............	53,546	16,116	3,101	202	1,167	16	1,118	284
1923............	40,042	14,107	2,679	304	192	41	750	288
1922............	36,379	11,406	1,925	1,332	...	20	600	225
1921............	53,094	3,917	3,440	197	...	79	887	591
1920............	39,952	7,559	902	239	...	35	784	706
1919............	33,677	13,098	1,146	528	...	36	541	...
1918............	16,408	8,488	2,075	147	...	41	106	153
1917............	5,663	7,126	6,273	333	...	7	14	169
1916............	25,192	12,224	4,824	482	329	12	322	82
1915............	38,624	7,033	1,944	364	389	51	564	281
1914............	33,132	13,726	7,953	444	3,593	18	1,069	419
1913............	40,027	14,391	22,946	396	4,201	70	1,804	69
1912............	20,289	13,780	8,176	900	6,496	23	668	530

NET IMPORTS

	France	Italy	Netherl'ds	Sweden	U. K'dom	U. States	Germany	Norway
1929............	8,424	...	14,171	1,386	11,420	24,243	12,417	566
1928............	8,257	2,628	16,453	1,649	13,943	17,579	17,409	647
1927............	6,049	2,873	14,227	1,464	14,062	21,821	14,621	571
1926............	7,109	2,267	12,676	1,543	14,299	22,511	12,473	612
1925............	6,726	2,101	11,677	1,625	13,497	16,510	9,803	596
1924............	6,460	2,287	11,312	1,211	16,706	16,589	5,083	605
1923............	6,138	1,467	7,586	1,204	14,242	24,232	2,619	495
1922............	5,244	1,216	9,659	1,042	13,397	14,913	4,058	363
1921............	4,271	749	10,183	1,061	16,529	11,979	5,862	438
1920............	1,217	871	3,647	1,086	16,520	24,626	2,076	332
1919............	3,979	619	3,718	696	22,116	14,019	...	361
1918............	1,023	141	*176	67	10,476	12,948	...	...
1917............	1,837	888	640	9	8,026	9,389	...	239
1916............	2,406	1,066	6,678	1,011	20,023	18,096	...	492
1915............	1,249	1,509	13,265	1,166	16,287	14,692	...	619
1914............	4,783	1,276	7,673	950	19,066	9,223	...	470
1913............	9,305	1,786	7,861	1,116	26,961	6,297	21,896	679
1912............	5,387	1,688	5,862	805	11,246	7,812	12,782	396

*Net exports.

Belgium—Imports and Exports

Imports and exports of Belgium by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls..	187	313	357	253
Wheat, bus	43,526	43,236	1,478	1,095
Rye, bus	299	981	73	9
Corn, bus	22,366	22,804	607	774
Barley, bus	12,791	21,514	210	176
Oats, bus	7,538	8,940	6	8
Flaxseed, bus	4,999	4,484	325	373

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Belgium, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929..	41,914	21,338	22,0[illegible]	8,932	570
1928..	41,279	12,581	21,7[illegible]	7,532	[illegible]
1927..	44,147	13,238	30,458	6,313	1,[illegible]
1926..	36,492	11,159	24,[illegible]	7,273	1,[illegible]
1925..	38,036	12,548	18,[illegible]	9,369	[illegible]
1924..	41,294	12,571	19,[illegible]	7,643	2,[illegible]
1923..	39,333	11,664	15,688	5,856	*[illegible]
1922..	35,382	6,416	10,071	6,125	[illegible]
1921..	35,518	10,958	11,142	8,562	[illegible]
1920..	33,538	2,388	2,555	4,559	3,704
1919..	11,475	2,262	808	3,914	1,[illegible]
1913..	53,892	15,193	18,902	9,482	[illegible]
1912..	51,391	17,497	21,022	9,514	4,154

*Net exports.

Hungary—Imports and Exports

Exports of Hungary by calendar years (000's omitted):

	1929	1928	1927	1926
Wheat flour, bbls	2,939	2,199	1,641	1,656
Rye flour, bbls....	64	93	100	104
Wheat, bus	17,798	10,409	11,392	14,773
Rye, bus	4,530	4,760	5,402	8,649
Corn, bus	3,162	1,798	1,350	5,559
Barley, bus	4,127	1,313	2,427	2,200
Oats, bus	2,117	566	1,798	3,094
Flaxseed, bus	*126	*117	*91	*52

*Imports.

Net exports of Hungary (exports less imports) of grain and grain products (the latter in terms of grain) by calendar years, in bushels (000's omitted):

	Wheat	Rye	Corn	Barley	Oats
1929......	31,024	4,821	2,267	4,127	2,116
1928......	20,304	5,177	1,241	1,309	555
1927......	20,224	5,850	594	2,423	1,798
1926......	22,181	9,116	5,557	2,197	3,092
1925......	17,107	5,807	6,810	1,778	2,117
1924......	17,076	7,056	1,210	582	1,622
1923......	10,532	2,418	*78	14	3,509
1922......	5,783	2,354	*219	39	647
1921......	5,721	1,297	1,090	180	[illegible]

*Net imports.

Jugoslavia—Imports and Exports

Imports and exports of Jugoslavia by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls..	75	1	22	118
Wheat, bus	251	3	5,939	20,354
Rye, bus	20	5	29	65
Corn, bus	1,678	759	156	6,569
Flaxseed, bus	236	232	..	..

Net exports (exports less imports) of grain and grain products (the latter being included in terms of grain) from Jugoslavia, by calendar years, in bushels (000's omitted):

	Wheat	Rye	Corn	Flaxs'd
1929..........	20,877	61	5,761	232
1928..........	5,449	9	*1,122	*236
1927..........	*1,699	411	7,532	*188
1926..........	12,448	468	35,117	*135
1925..........	4,657	118	39,624	*148
1924..........	8,106	187	9,578	*35
1923..........	4,643	3	3,797	*21
1922..........	1,293	42	*603	*8
Av'ge, 1909-13.	4,057	227	4,226	...

*Net imports.

Esthonia—Imports and Exports

Imports and exports of Esthonia in 1929:

	Imports	Exports
Wheat flour, bbls	75,115	1
Rye flour, bbls	...	45
Wheat, bus	897,228	...
Rye, bus	2,500,119	1,105
Barley, bus	355,381	35
Oats, bus	1,030,125	149
Flaxseed, bus	41,803	112,492

Imports and exports of flour by calendar years, in barrels:

	Imports	Exports
1929.....................	75,115	1
1928.....................	80,634	6
1927.....................	70,026	439
1926.....................	77,869	19
1925.....................	117,460	9
1924.....................	106,879	2
1923.....................	123,976	125

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Esthonia by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats	Flaxs'd
1929...	1,235	2,499	355	1,6[illegible]	*71
1928...	1,170	1,954	330	895	61
1927...	894	1,115	135	352	*44
1926...	926	2,220	226	577	*135
1925...	998	1,872	165	364	*25
1924...	768	1,489	384	1,546	*11
1923...	1,160	999	47	263	*3
1922...	734	*61	*91	*621	*132
1921...	569	*144	17	45	*50

*Net exports.

Dutch East Indies—Imports

Net imports (imports less exports) of wheat and wheat products (the latter included in terms of wheat) into the Dutch East Indies, as officially reported, by calendar years, in bushels (000's omitted):

1929...........	3,793	1922...........	2,114
1928...........	3,678	1921...........	2,014
1927...........	3,301	1920...........	2,073
1926...........	3,201	1919...........	1,937
1925...........	2,687	1918...........	1,431
1924...........	2,556	1917...........	1,453
1923...........	2,193	1916...........	1,540

RUSSIA—GRAIN EXPORTS BEFORE THE WAR

The following tables, prepared for the Almanack by Peter A. Kozmin, Russian milling engineer, show the main features of Russia's normal export trade in grain and grain products before the war. Accurate figures for subsequent years are unobtainable.

Exports by Countries

Average annual Russian exports of grain and milling products to principal European markets:

WHEAT FLOUR

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	1,470	1.6	[illegible]	[illegible]
England	3,350	3.6	[illegible]	[illegible]
France	70	0.1	[illegible]	[illegible]
Austria-Hungary	75	[illegible]	70	0.1
Holland	230	[illegible]	60	0.1
Norway	180	0.2	170	0.2
Turkey	36,250	37.7	34,130	34.6
Persia	7,360	7.8	12,130	12.6
China	3,460	[illegible]	4,750	[illegible]
Egypt	6,980	[illegible]	[illegible]	9.0
Finland	33,100	35.7	[illegible]	37.3

RYE FLOUR

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	600	0.4	575	0.4
England	480	0.3	50	[illegible]
Norway	5,210	3.2	1,840	[illegible]
Turkey	60	0.1	25	0.1
Persia	60	0.1	420	0.3
China	980	0.7	425	0.3
Finland	138,300	94.7	110,530	96.9

BARLEY

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	1,034,100	43.3	2,018,380	57.3
England	435,500	[illegible]	378,950	10.8
France	39,400	[illegible]	31,120	0.9
Holland	381,520	16.0	637,000	18.1
Belgium	72,670	3.0	65,430	1.9
Denmark	41,300	1.9	34,700	1.0
Norway	66,400	[illegible]	58,370	1.7
Roumania	53,300	[illegible]	86,100	[illegible]

OATS

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	155,950	13.9	177,120	16.4
England	487,000	43.4	316,330	29.2
Italy	[illegible]	1.5	14,830	1.4
France	[illegible]	8.0	121,230	[illegible]
Aus.-Hungary	13,430	1.2	3,970	0.4
Holland	252,470	22.5	323,920	29.9
Belgium	53,850	4.8	70,770	6.5
Sweden	19,600	1.7	[illegible]	[illegible]
Finland	18,420	1.6	[illegible]	[illegible]

WHEAT

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	233,400	[illegible]	336,300	8.5
England	894,800	[illegible]	765,780	19.5
Italy	833,690	21.0	740,740	18.8
France	499,880	12.6	479,300	12.2
Aus.-Hungary	28,730	[illegible]	64,520	1.6
Holland	760,400	18.6	850,700	21.6
Belgium	117,220	3.0	146,200	3.7
Sweden	41,420	1.0	34,430	0.9
Spain	130,550	[illegible]	64,000	1.6
Roumania	63,100	[illegible]	35,300	0.9
Greece	147,380	3.7	183,000	4.6

RYE

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	[illegible]	[illegible]	157,970	[illegible]
England	127,520	12.2	58,900	[illegible]
Italy	6,020	0.6	6,220	1.0
France	5,950	0.6	6,680	[illegible]
Aus.-Hungary	10,320	1.0	6,880	[illegible]
Holland	354,320	[illegible]	240,250	[illegible]
Belgium	9,580	0.9	7,470	[illegible]
Denmark	37,780	[illegible]	19,180	[illegible]
Sweden	28,600	[illegible]	11,120	[illegible]
Norway	93,270	9.0	39,130	6.3
Roumania	53,920	5.2	30,300	4.9
Finland	41,650	[illegible]	25,950	[illegible]

CORN

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	48,250	9.3	100,370	12.9
England	142,000	27.5	156,770	20.1
Italy	[illegible]	0.7	10,000	1.3
France	30,650	5.9	[illegible]	5.8
Aus.-Hungary	58,230	11.3	[illegible]	[illegible]
Holland	[illegible]	[illegible]	165,770	[illegible]
Belgium	[illegible]	[illegible]	22,570	[illegible]
Denmark	4,950	[illegible]	2,580	0.3
Roumania	74,450	[illegible]	148,100	19.0
Turkey	26,500	[illegible]	42,530	5.5

OFFALS

Name of country—	1903-07 Tons	p.ct.	1908-12 Tons	p.ct.
Germany	475,000	[illegible]	571,250	82.2
England	11,600	[illegible]	10,950	1.6
France	230	0.1	100	0.1
Aus.-Hungary	49,580	8.1	45,480	6.5
Holland	8,480	1.4	3,520	[illegible]
Denmark	6,300	1.1	[illegible]	[illegible]
Sweden	[illegible]	2.7	[illegible]	[illegible]
Norway	[illegible]	0.1	1,420	0.2
Turkey	150	0.1	420	0.1
China	....	..	20	..
Finland	38,800	6.3	51,250	[illegible]

Total Exports

Average annual exports of milling products from Russia (000's omitted in quantity):

Kind—	1903-07 Quantity tons	*Pct.	1908-12 Quantity tons	*Pct.	1913 Quantity tons	*Pct.
Wheat flour	93	10.9	98	10.8	136	12.8
Rye flour	146	17.0	114	12.6	115	10.8
Offals	618	72.1	695	76.6	808	76.4
Totals	858	100.0	907	100.0	1,059	100.0

*Percentage to total exports.

Average annual Russian exports of grain (000's omitted in quantity).

Kind—	1903-07 Quantity tons	*Pct.	1908-12 Quantity tons	*Pct.	1913 Quantity tons	*Pct.
Wheat	3,971	43.9	3,935	39.7	3,385	36.6
Rye	1,012	11.5	618	6.5	658	7.2
Barley	2,391	26.5	3,522	35.6	3,992	43.3
Oats	1,122	12.4	1,083	10.9	607	6.5
Corn	516	5.7	780	7.3	592	[illegible]
Totals	9,012	100.0	9,937	100.0	9,231	100.0

*Percentage to total exports.

British India—Exports and Imports

Exports from British India by calendar years (000's omitted):

	Flour, bbls	Wheat (bushels)	Corn (bushels)	Barley (bushels)	Flaxs'd (bushels)
1929	633	2,536	19	265	9,988
1928	667	5,828	1,066	7,712	6,829
1927	686	12,615	5	2,015	8,655
1926	696	8,293	3	[illegible]	7,442
1925	854	20,130	703	4,596	13,997
1924	773	23,828	1,786	24,079	15,115
1923	623	27,891	1,923	2,073	15,110

NET EXPORTS

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) from British India, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Corn	Barley	Flaxs'd
1929	*21,963	19	261	2,114
1928	2,981	1,066	7,712	6,192
1927	12,322	5	2,033	7,689
1926	9,666	[illegible]	*[illegible]	6,620
1925	23,968	703	4,596	13,994
1924	31,602	1,786	24,079	15,115
1923	30,324	1,923	2,073	15,106
1919	*5,206	3	698	13,324
1918	23,842	2,378	14,848	8,445
1917	57,637	2,723	14,531	7,125
1916	27,159	126	7,706	15,561
1915	28,927	164	7,441	7,150
1914	28,868	[illegible]	1,290	14,007
1913	54,355	320	10,069	14,664
1912	68,339	871	31,843	14,116

*Net imports.

Switzerland—Imports and Exports

Imports and exports of Switzerland by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat, bus	16,768	17,141	..	..
Rye, bus	12	196	..	..
Barley, bus	3,752	3,072	..	..
Oats, bus	9,043	11,462	..	..
Corn, bus	5,333	4,266	..	..

Net imports (imports less exports) of grain and grain products (the latter in terms of grain), by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats	Corn
1929	17,141	196	3,559	11,462	[illegible]
1928	16,768	12	3,752	9,012	5,333
1927	16,563	47	3,198	10,219	6,051
1926	16,045	40	2,466	10,918	4,328
1925	14,947	78	3,165	9,262	5,775
1924	14,161	17	3,281	10,169	5,321
1923	16,980	8	3,055	10,156	5,279
1922	13,907	40	2,388	8,394	4,999
Average, 1909-13	16,480	745	1,083	12,116	3,979

Russia—Imports and Exports

Imports and exports from the U. S. S. R. by calendar years, compared with a pre-war average (000's omitted):

EXPORTS

	1930†	1929	1928	1927	Average, 1909-13
Flour‡	..	..	..	[illegible]	[illegible]
Wheat*	49,861	..	[illegible]	[illegible]	[illegible]
Rye*	9,372	[illegible]	[illegible]	[illegible]	[illegible]
Barley*	52,594	[illegible]	..	2,928	158,993
Oats*	1,914	[illegible]	[illegible]	6,672	74,465
Corn*	561	[illegible]	[illegible]	5,204	30,162

IMPORTS

	1929	1928	1927	1926	Average, 1909-13
Flour‡	..	..	3	[illegible]	....
Wheat*	793	8,999	19	61	4,165
Rye*	..	..	..	..	4,755
Barley*	..	..	6	15	[illegible]
Oats*	..	..	6	[illegible]	1,369
Corn*	..	..	..	..	334

*Bushels. ‡Barrels. †Ten months from Black Sea ports only.

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) from the U. S. S. R., as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929	*793	[illegible]	159	115	12
1928	*8,877	...	[illegible]	[illegible]	353
1927	28,966	2,922	5,204	6,866	[illegible]
1926	38,583	33,122	10,130	1,112	[illegible]
1925	*2,643	22,103	3,825	692	[illegible]
1924	9,436	[illegible]	8,663	4,102	[illegible]
1923	12,236	[illegible]	1,508	7,143	47,141
1922	*9,664	*1,023	*11,481	*2,277	*8,446
1921	*3,035	*1	*4	*167	2,293
1917-20	Figures not available				
1916	15,112	488	97	23	12,315
1915	8,505	372	...	[illegible]	13,331
1914	89,514	90,145	10,699	[illegible]	14,845
1913	125,626	179,365	22,238	[illegible]	25,401
1912	97,632	126,295	30,010	57,257	32,904

*Net imports.

South Africa—Exports and Imports

Imports of flour into South Africa by calendar years, in barrels:

1929	331,455	1923	497,333
1928	[illegible]	1922	336,515
1927	[illegible]	1921	[illegible]
1926	290,876	1920	[illegible]
1925	306,490	1919	276,312
1924	433,384	Av'ge 1909-13	707,322

NET EXPORTS

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) into British South Africa, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats	Corn
1929	*7,640	..	[illegible]	12,993
1928	*8,721	..	111	20,599
1927	*5,941	..	[illegible]	8,041
1926	*4,476	..	[illegible]	5,225
1925	*6,039	..	547	33,150
1924	*7,583	1	[illegible]	2,562
1923	*6,894	[illegible]	223	20,117
1922	*15,029	[illegible]	265	13,884
1921	*9,288	3	140	9,688
1920	[illegible]	*343	[illegible]	4,512
1919	[illegible]	14	[illegible]	13,398
1918	[illegible]	[illegible]	304	13,452
1917	[illegible]	[illegible]	930	11,088
1916	*5,689	[illegible]	[illegible]	6,616
1915	*5,120	[illegible]	[illegible]	6,590

*Net imports.

Guatemala—Flour Imports

Imports of wheat flour into Guatemala by calendar years, in barrels of 196 lbs:

1929	200,881	1924	145,549
1928	206,208	1923	120,659
1927	151,157	1922	113,050
1926	149,366	1921	[illegible]
1925	141,340		

Turkey—Imports and Exports

Imports and exports of European Turkey by calendar years. No reports have been made since 1924.

	Imports Flour bbls	Imports Wheat bus	Exports Flour bbls	Exports Wheat bus
1924	*32,410	*3,384,138	*501	*3,567
1923	301,607	4,131,960	1,103	20,407
1922	18,804	17,783	8,369	27,173
1921	2,824,137	650,519	38	.....
Average, 1909-13	1,916,277	3,851,059	16,821	555,973

*First 10 months.

Australia—Exports and Imports

Exports of wheat and flour from Australia (New South Wales, Victoria, South Australia, Queensland and Western Australia), by calendar years:

	Wheat, bus	Flour, bbls
1929	74,876,924	5,529,627
1928	58,377,417	4,557,600
1927	80,664,127	5,343,728
1926	52,569,216	4,792,628
1925	98,385,177	4,560,253
1924	59,584,120	4,832,867
1923	39,616,000	5,002,888
1922	68,513,000	3,553,111
1921	102,070,000	3,036,000
1920	45,984,000	3,770,000
1919	80,316,000	6,360,000
1918	21,599,000	3,860,444
1917	49,013,000	3,159,333
1916	44,143,000	2,612,888
1915	Exports prohibited	
1914	63,877,000	1,777,777
1913	42,923,000	2,285,333
1912	32,604,000	1,739,111
1911	55,147,000	1,794,888
1910	47,763,000	1,428,000
1909	31,549,000	1,326,000
1908	15,027,000	1,123,500
1907	28,784,000	1,662,500
1906	30,262,000	1,703,400
1905	24,648,000	1,570,800

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) from Australia, by calendar years, in bushels (000's omitted):

	Wheat	Oats	Barley
1929	39,756	59	1,361
1928	80,234	36	[illegible]
1927	88,124	*497	[illegible]
1926	74,132	*236	[illegible]
1925	118,903	136	1,367
1924	81,330	378	1,640
1923	63,228	*380	1,832
1922	[illegible]	*313	2,304
1921	[illegible]	594	3,259
Average, 1909-13	49,707	*583	*108

*Net imports.

Australia—Flour Exports

The following table gives exports of flour from Australia by countries of destination by crop years, in tons (000's omitted):

Country—	1925-26	1926-27	1927-28
Egypt	[illegible]	[illegible]	[illegible]
United Kingdom	[illegible]	[illegible]	[illegible]
Dutch East Indies	[illegible]	[illegible]	[illegible]
British Malaya	49	[illegible]	41
South Africa	[illegible]	[illegible]	[illegible]
Philippine Islands	[illegible]	[illegible]	8
Ceylon	[illegible]	[illegible]	[illegible]
Hongkong	[illegible]	[illegible]	[illegible]
Mauritius	[illegible]	[illegible]	[illegible]
Japan	[illegible]	[illegible]	[illegible]
Malta	[illegible]	[illegible]	[illegible]
New Caledonia	[illegible]	[illegible]	[illegible]
Portuguese E. Africa	[illegible]	[illegible]	[illegible]
New Zealand	[illegible]	[illegible]	[illegible]
Other countries	[illegible]	[illegible]	[illegible]
Totals	[illegible]	[illegible]	[illegible]

New Zealand—Imports and Exports

Imports and exports of New Zealand by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	98	[illegible]	[illegible]	[illegible]
Wheat, bus	[illegible]	[illegible]	[illegible]	[illegible]
Corn, bus	[illegible]	[illegible]	[illegible]	[illegible]
Barley, bus	[illegible]	[illegible]	[illegible]	[illegible]
Oats, bus	[illegible]	[illegible]	199	[illegible]
Flaxseed, bus	[illegible]	[illegible]	[illegible]	[illegible]

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into New Zealand, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats
1929	[illegible]	[illegible]	[illegible]	[illegible]
1928	[illegible]	[illegible]	[illegible]	*196
1927	[illegible]	[illegible]	[illegible]	[illegible]
1926	2,912	[illegible]	[illegible]	237
1925	2,617	[illegible]	[illegible]	[illegible]
1924	3,547	[illegible]	[illegible]	[illegible]
1923	[illegible]	[illegible]	[illegible]	[illegible]
1922	[illegible]	[illegible]	[illegible]	[illegible]
1921	[illegible]	[illegible]	[illegible]	[illegible]
1920	1,904	[illegible]	[illegible]	[illegible]
1919	1,088	[illegible]	[illegible]	[illegible]
1918	1,411	[illegible]	[illegible]	169
1917	[illegible]	[illegible]	[illegible]	[illegible]
1916	[illegible]	122	[illegible]	[illegible]
1915	563	[illegible]	[illegible]	[illegible]
1914	610	[illegible]	[illegible]	[illegible]
1913	[illegible]	[illegible]	[illegible]	[illegible]
1912	[illegible]	[illegible]	31	[illegible]
1911	[illegible]	[illegible]	[illegible]	[illegible]

*Net exports.

Algeria—Exports and Imports

Exports and imports of Algeria, by calendar years, flour in barrels, grain in bushels (000's omitted):

EXPORTS

	Wheat	Wheat flour	Barley	Oats	Corn
1929	4,013	79	6,915	1,748	15
1928	7,085	165	7,904	3,121	18
1927	2,669	41	3,798	690	16
1926	4,030	69	1,149	674	7
1925	4,623	55	4,371	2,397	45
1924	2,528	39	4,504	2,142	65
1923	7,508	69	5,304	5,493	15
1922	1,610	50	1,304	4,870	4
1921	5,251	[illegible]	5,262	6,052	1

IMPORTS

	Wheat	Wheat flour	Barley	Oats	Corn
1929	2,042	[illegible]	332	494	51
1928	1,625	11	297	455	164
1927	4,159	63	1,987	1,334	568
1926	820	84	1,111	432	268
1925	1,448	49	354	88	123
1924	1,961	50	1,679	870	296
1923	3,268	78	2,971	407	339
1922	2,714	82	2,228	569	211
1921	4,568	178	1,871	689	426

PRE-WAR EXPORTS AND IMPORTS—VARIOUS COUNTRIES

EXPORTS (000'S OMITTED)

By—	Wheat, bus 1912	1913	1914	Wheat flour, bbls 1912	1913	1914	Wheat and wheat flour*, bus 1912	1913	1914
Argentina	96,600	103,328	36,028	1,480	[illegible]	757	103,260	109,637	39,435
Australia	32,604	42,923	52,878	1,739	[illegible]	1,778	40,428	53,207	60,873
Aus.-Hungary	56	[illegible]	....	167	369	....	[illegible]	1,730	....
Belgium	16,576	12,991	....	732	646	....	[illegible]	15,898	....
British India	65,698	50,558	26,130	714	923	653	68,512	54,711	29,204
Bulgaria	9,238	†9,238	....	493	†493	....	11,456	†11,456	....
Canada	84,958	129,956	70,302	4,303	[illegible]	4,671	101,320	151,975	91,322
Chile	2,411	1,922	149	[illegible]	69	34	2,743	2,235	301
Germany	11,853	19,781	....	[illegible]	2,191	....	20,510	29,638	....
Netherlands	51,444	63,598	37,063	157	201	115	52,152	64,501	37,583
Roumania	50,406	50,406	19,744	844	844	842	54,203	54,203	23,535
Russia	96,915	122,336	58,609	1,173	1,636	[illegible]	102,195	130,596	94,342
Serbia	†3,366	†3,366	....	[illegible]	80	....	[illegible]	[illegible]	....
United States	61,655	99,509	173,862	10,622	12,278	12,768	109,451	154,760	231,318
Other countries	12,839	7,499	13,358	3,303	2,813	2,658	27,705	20,160	26,214
Totals	596,519	717,476	516,123	27,605	31,324	25,780	721,641	858,431	634,134

IMPORTS (000'S OMITTED)

By—	Wheat, bus 1912	1913	1914	Wheat flour, bbls 1912	1913	1914	Wheat and wheat flour*, bus 1912	1913	1914
Belgium	71,167	69,628	....	21	36	....	71,261	69,700	....
Brazil	14,010	16,109	14,047	2,133	1,914	1,503	23,609	24,722	20,808
Br. S. Africa	1,886	5,359	3,782	588	890	[illegible]	4,531	9,366	6,957
Denmark	5,585	5,176	2,942	580	670	[illegible]	8,496	8,199	5,424
France	26,131	57,160	60,882	126	113	1,018	26,698	57,669	65,588
Germany	84,415	93,547	....	179	201	....	85,218	94,451	....
Greece	5,901	6,882	[illegible]	16	15	[illegible]	5,971	6,950	6,794
Italy	65,760	66,532	3,752	34	[illegible]	17	65,914	[illegible]	3,810
Japan	2,276	6,255	4,360	191	[illegible]	137	3,135	7,131	4,976
Netherlands	65,788	79,369	50,770	2,051	2,259	1,596	75,018	89,534	[illegible]
Portugal	2,392	6,399	5,439	....	....	....	2,382	6,399	5,439
Spain	1,513	6,405	[illegible]	1	1	10	1,517	6,409	15,575
Sweden	6,295	7,355	4,595	74	97	107	6,629	7,793	5,378
Switzerland	17,843	19,446	14,714	434	429	....	29,966	21,376	14,714
U. Kingdom	203,322	194,809	192,725	[illegible]	6,791	5,622	229,140	225,978	218,025
Other countries	11,169	13,073	20,094	11,497	13,060	34,495	63,847	71,843	193,325
Totals	[illegible]	655,564	402,581	23,727	26,607	49,801	692,475	775,234	626,644

*Flour is reduced to grain, counting 4½ bus wheat to 1 bbl of flour. †Year preceding.

Chile—Exports and Imports

Imports into Chile by calendar years:

	Wheat flour, bbls	Wheat, bus
1929	16,509	27,800
1928	[illegible]	1,167
1927	[illegible]	244,715
1926	65,640	227,996
1925	80,573	238,906
1924	[illegible]	110
1923	10,937	323
1922	36,247	491,722
1921	1,361	88

Exports from Chile by calendar years:

	1927	1928	1929
Wheat flour, bbls	107,299	79,860	84,185
Wheat, bus	12,577	430,763	2,547
Barley, bus	2,411,185	2,616,241	2,386,471
Oats, bus	4,808,927	3,899,190	3,218,740

Net exports (exports less imports) of grain and grain products (the latter in terms of grain) from Chile, by calendar years, in bushels:

	Wheat	Barley	Oats	Corn
1919...	2,534,128	1,952,714	1,834,647	70,260
1920...	[illegible]	[illegible]	[illegible]	......
1921...	[illegible]	[illegible]	[illegible]	......
1922...	*[illegible]	[illegible]	[illegible]	11,200
1923...	934,225	[illegible]	[illegible]	60,883
1924...	6,268,275	3,380,392	3,455,278	77,707
1925...	5,028,340	2,208,128	3,187,179	*10,836
1926...	1,036,068	5,093,260	5,690,821	13,904
1927...	*173,660	2,411,185	4,808,839	[illegible]
1928...	228,082	2,616,222	3,898,657	11,762
1929...	279,283	2,386,466	3,218,721	*841

*Net imports.

Czechoslovakia—Imports and Exports

Imports and exports of Czechoslovakia by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat, bus	10,938	6,116	15	108
Wheat flour, bbls	1,961	1,535	7	6
Rye, bus	4,480	848	447	2,937
Rye flour, bbls	54	12	[illegible]	[illegible]
Barley, bus	66	13	3,261	5,608
Oats, bus	485	293	4,833	4,827
Corn, bus	12,081	7,871	1	2
Flaxseed, bus	954	1,110	7	18

Net imports (imports less exports) of grain and grain products (the latter in terms of grain) by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Corn	Flaxseed
1929..	14,237	*2,074	*5,595	7,869	1,092
1928..	19,714	4,244	*3,195	[illegible]	947
1927..	21,058	6,733	*7,805	[illegible]	926
1926..	18,702	3,931	*5,322	12,689	748
1925..	17,577	8,336	*2,242	13,490	657
1924..	25,013	10,308	*1,937	7,719	834
1923..	11,443	*2,821	*8,845	2,308	505

*Net exports.

China—Imports and Exports

Imports and exports into China by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	4,052	7,682	57	..
Wheat, bus	1,998	12,402	3,997	..
Barley, bus	5	..	..	..
Corn, bus	..	..	943	..
Flaxseed, bus	..	..	9	1

Net imports (imports less exports) of grain and products (the latter in terms of grain) by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Flaxs'd
1928	15,979	[illegible]	*943	*[illegible]
1927	13,934	[illegible]	*489	*220
1926	19,427	10	*981	*165
1925	8,779	*8	*766	*199
1924	30,878	*5	*465	*208
1923	21,678	16	*833	*313
1922	8,649	*10	*416	*[illegible]
1921	*16,266	*60	236	*[illegible]
Average, 1909-13	*[illegible]	*699	*105	*395

*Net exports.

Mexico—Imports and Exports

Imports of wheat flour into Mexico, in barrels of 196 lbs:

1927	106,132	1923	434,132
1926	227,457	1922	257,661
1925	207,336	1921	316,418
1924	330,912		

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Mexico, by calendar years, in bushels (000's omitted):

	Wheat	Corn
1927	1,858	1,117
1926	3,626	4,293
1925	2,534	2,603
1924	2,920	719
1923	4,060	53
1922	1,169	...
1921	1,424	...

Cuba—Flour Imports

Imports of wheat flour into Cuba by months and calendar years at all ports, in sacks of 200 lbs (000's omitted). Before 1927, imports at Tanamo and certain other ports were not reported monthly.

	1925	1926	1927	1928	1929	1930
January	124	85	100	99	116	94
February	100	107	96	116	105	93
March	114	121	107	109	101	103
April	88	104	87	96	109	102
May	71	82	88	88	117	97
June	88	91	87	79	94	73
July	83	85	72	88	107	104
August	90	91	98	115	103	78
September	89	84	101	85	102	74
October	103	107	101	99	123	70
November	126	101	114	102	97	79
December	112	132	100	95	95	85
Tanamo and others	89	60	44	..	..	..
Totals	1,277	1,260	1,204	1,171	1,269	1,053

India—Jute Exports

Exports of gunny bags from India, by principal countries of destination (000's omitted):

Countries—	1926	1927	1928	1929	1930
	Fiscal years ending March				
U. K.	[illegible]	38,783	46,121	44,603	53,046
Belgium	4,066	5,685	3,816	7,623	12,491
Hawaii	7,784	9,083	11,483	16,560	17,972
Straits Settlem'ts	15,536	16,321	15,639	12,766	13,877
Java	31,931	26,987	25,710	42,081	37,289
Siam	9,104	11,167	14,425	12,410	10,509
Indo-China	9,293	10,290	13,888	15,424	12,029
*China	8,205	19,066	25,280	24,985	43,296
Japan	16,758	24,901	18,694	8,742	15,742
Union of S. Africa	18,308	16,270	18,598	20,183	20,770
U. States	26,412	28,917	20,744	19,907	16,972
Cuba	40,672	28,917	28,189	[illegible]	[illegible]
Chile	43,207	28,135	[illegible]	[illegible]	[illegible]
Australia	69,800	85,748	76,529	91,307	73,307
Egypt	11,462	14,414	14,211	16,697	19,029

*Includes Hongkong.

Exports of gunny cloth by principal countries of destination, in square yards (000's omitted):

	1927	1928	1929	1930
	Fiscal years ending March			
U. K.	50,393	31,146	29,176	58,593
Canada	59,610	68,834	75,808	81,664
U. States	975,423	1,023,013	1,021,816	1,071,908
Argentina	318,225	331,000	340,276	329,287
Australia*	30,129	27,665	26,945	29,852

*Australia and New Zealand.

Exports of jute products from India, by fiscal years ended March 31 (000's omitted):

	Yarn, lbs	Gunny cloth sq yds	Number bags	Total value
1910-14 (5-yr average)	234	969,971	339,122	£13,499
1915	51	1,067,324	397,566	17,213
1916	817	1,192,257	794,153	25,319
1917	3,395	1,230,951	805,095	27,781
1918	4,025	1,196,826	768,391	28,562
1919	5,115	1,103,211	683,098	35,102
1920	3,606	1,275,055	342,729	58,666
1921	10,179	1,352,738	315,673	46,911
1922	1,876	1,120,569	334,557	18,201
1923	[illegible]	1,254,352	344,232	26,308
1924	5,345	1,348,743	413,716	29,407
1925	1,261	1,456,288	426,991	35,480
1926	1,724	1,461,381	425,083	39,227
1927	2,078	1,503,114	449,090	35,454
1928	6,319	1,562,752	483,140	40,013
1929	4,801	1,568,293	497,685	42,500
1930	6,009	1,650,525	522,291	38,120

Japan—Imports and Exports

Imports into and exports from Japan by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat flour, bbls	93	78	2,176	[illegible]
Wheat, bus	24,066	27,175	280	[illegible]
Corn, bus	1,459	1,864	..	..
Barley, bus	121	390	456	313
Oats, bus	8	74	..	..
Flaxseed, bus	675	625	..	[illegible]

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Japan, as officially reported, in bushels (000's omitted):

	Wheat	Corn	Barley	Oats	Flaxseed
1929	16,986	1,864	77	[illegible]	613
1928	19,216	1,459	*335	8	675
1927	15,994	1,257	3	[illegible]	313
1926	20,978	[illegible]	54	266	291
1925	13,724	199	33	153	362
1924	25,665	417	[illegible]	1,127	401
1923	16,786	63	79	184	126
1922	21,357	367	[illegible]	1	58
1921	12,649	45	15	[illegible]	[illegible]
1920	6,941	89	259	17	[illegible]
1919	11,466	492	564	1	[illegible]
1918	*29	84	27	[illegible]	182
Av. 1909-18	1,726	49	[illegible]	*166	36

*Net exports.

Philippine Islands—Flour Imports

Imports of wheat flour into the Philippine Islands, by calendar years, in barrels of 196 lbs:

1929	869,065	1925	779,568
1928	847,770	1924	700,043
1927	765,874	1923	591,513
1926	750,467		

Finland—Imports and Exports

Imports of wheat flour and rye flour into Finland, by calendar years, in barrels of 196 lbs (000's omitted):

Year	Flour Wheat	Flour Rye	Year	Flour Wheat	Flour Rye
1929	1,533	170	1916	1,428	1,426
1928	1,616	71	1915	858	1,628
1927	973	19	1914	975	1,293
1926	965	57	1913	1,278	2,195
1925	1,256	220	1912	[illegible]	1,813
1924	1,161	141	1911	1,118	2,431
1923	1,119	173	1910	[illegible]	2,034
1922	929	205	1909	[illegible]	1,594
1921	823	178	1908	[illegible]	1,437
1920	639	716	1907	[illegible]	1,536
1919	773	1,260	1906	876	1,746
1918	17	70	1905	791	1,657
1917	181	122	1904	754	2,427

Net imports (imports less exports) of grain and grain products (the latter included in terms of grain) into Finland, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929...	6,911	149	227	1,841	7,966
1928...	6,841	108	298	923	6,817
1927...	4,381	23	213	42	4,372
1926...	4,378	29	123	333	6,100
1925...	5,662	44	30	416	7,087
1924...	5,225	199	117	1,990	7,610
1923...	5,062	137	215	1,588	7,710
1922...	4,071	[illegible]	120	*412	4,826
1921...	2,826	20	219	*21	2,818
1920...	1,660	71	287	265	3,518
1918...	45	61	26	57	345
1917...	717	264	[illegible]	52	564
1916...	6,984	486	102	[illegible]	13,637
1915...	4,460	530	39	*89	13,423
1914...	4,648	292	31	687	9,869
1913...	6,791	645	249	546	15,774
1912...	4,849	497	288	680	12,822

*Net exports.

Egypt—Imports and Exports

Imports and exports of Egypt by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat, bus	413	1,117	236	19
Wheat flour, bbls	1,771	2,616	4	2
Barley, bus	3	20	927	175
Corn, bus	8	33	5,368	2,271

Net imports (imports less exports) of grain and grain products (the latter in terms of grain) by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn
1929	12,857	*155	2,238
1928	7,540	*924	*5,360
1927	7,594	*312	*862
1926	10,276	735	239
1925	11,990	278	396
1924	8,228	*123	*[illegible]
1923	7,803	493	353
1922	5,418	115	*92
Average, 1909-13	7,916	672	401

*Net exports.

Latvia—Imports and Exports

Imports and exports of Latvia by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat, bus	2,131	2,761	2	1
Wheat flour, bbls	5	3	[illegible]	[illegible]
Rye, bus	3,250	4,978	[illegible]	[illegible]
Rye flour, bbls	3	..	..	..
Barley, bus	639	1,706	6	..
Oats, bus	1,331	2,800	3	..
Flaxseed, bus	704	670	379	596

Net imports (imports less exports) of grain and grain products (the latter in terms of grain) by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats	Flaxseed
1929...	2,757	4,966	1,706	2,800	74
1928...	2,134	3,238	633	1,328	325
1927...	1,686	2,115	84	892	*74
1926...	1,526	2,731	94	305	*347
1925...	1,764	2,686	125	376	*411
1924...	1,953	2,444	202	986	*327
1923...	[illegible]	1,490	[illegible]	*348	*151
1922...	[illegible]	401	*136	*892	*377

*Net exports.

Argentina—Flour and Grain Exports

Exports of wheat flour from Argentina, by calendar years, in barrels of 196 lbs:

1929	1,534,198	1918	[illegible]
1928	1,893,808	1917	[illegible]
1927	1,900,080	1916	[illegible]
1926	1,692,382	1915	[illegible]
1925	1,575,504	1914	[illegible]
1924	[illegible]	1913	[illegible]
1923	[illegible]	1912	[illegible]
1922	1,271,603	1911	[illegible]
1921	711,502	1910	1,292,[illegible]
1920	2,015,418	1909	1,304,[illegible]
1919	3,074,798	1908	1,271,200

Exports of grain from Argentina, by calendar years, in bushels (000's omitted):

	Wheat	Corn	Flaxseed	Oats
1929	242,930	198,379	63,568	29,684
1928	194,560	250,436	76,415	20,650
1927	164,653	327,903	74,458	41,733
1926	74,473	192,846	65,762	35,251
1925	100,575	126,485	39,982	31,547
1924	161,090	178,215	53,546	50,231
1923	136,989	116,029	45,343	31,761
1922	137,764	112,002	36,680	19,447
1921	62,612	111,187	53,094	27,177
1920	184,600	172,538	30,883	28,216
1919	119,678	74,804	33,023	22,890
1918	107,610	20,402	15,642	36,659
1917	32,943	28,228	6,607	18,683
1916	84,321	113,140	26,192	65,421
1915	93,172	173,223	38,658	40,858
1914	36,028	139,451	33,131	24,426
1913	103,328	189,239	40,026	61,410
1912	96,484	190,362	20,290	61,824
1911	83,896	4,928	16,369	35,259
1910	69,142	104,727	23,812	26,699
1909	92,263	89,499	34,928	29,049
1908	133,441	67,390	41,558	30,350
1907	98,392	60,262	30,066	9,936

Exports of rye and barley from Argentina, in bushels:

	Rye	Barley
1929	7,346,288	11,600,000
1928	6,827,105	10,234,003
1927	5,346,922	13,670,176
1926	2,908,435	6,810,269
1925	212,644	2,731,296
1924	3,184,876	8,834,544
1923	2,760,428	2,848,300

Net exports (exports less imports) of grain and grain products (the latter included in terms of grain) from Argentina, as reported by the Anuario del Comercio Exterior, by calendar years, in bushels (000's omitted):

	Wheat	Corn	Oats	Flaxs'd	Barley
1929	249,806	198,379	29,680	63,568	11,600
1928	203,082	250,436	20,673	76,415	10,234
1927	163,202	327,902	41,640	74,458	13,572
1926	81,612	192,839	35,149	65,761	6,809
1925	124,667	126,486	31,657	39,982	2,731
1924	169,924	178,215	50,432	53,546	812
1923	140,908	111,789	31,632	40,042	2,029
1922	145,446	108,107	19,412	36,379	[illegible]
1921	65,828	111,603	27,297	53,094	1,962
1920	193,097	173,642	[illegible]	39,952	927
1919	137,361	97,850	[illegible]	31,512	[illegible]
1918	119,026	26,171	37,341	15,408	*666
1917	40,043	35,190	18,702	6,118	*193
1916	91,625	113,140	56,392	25,192	2,116
1915	98,156	170,488	40,803	38,621	2,794
1914	39,278	139,458	24,321	32,069	120
1913	109,634	189,238	61,249	40,026	415
1912	103,263	190,351	61,672	20,289	*660
1911	89,986	4,923	35,178	16,369	*934

*Net imports.

Argentina—Flour Exports

The following table gives the exports of Argentine flour by countries of destination, in metric tons:

Country—	1929	1928	1927	1926
Germany	15	1,932	1,415	2,502
Belgium	765	1,562	3,890	4,053
Bolivia	2,851	1,662	1,622	1,320
Brazil	71,987	99,308	95,776	66,571
Cuba	161	20	...	35
Chile	1,080	3,406	7,876	2,676
Finland	*	*	...	34
Denmark	123	98	422	...
Spain	232	110	329	...
France	433	1,142	2,222	[illegible]
Italy	*	46	...	[illegible]
Norway	441	98	...	1,029
Netherlands	393	1,226	2,422	4,234
Paraguay	5,926	8,638	8,603	9,275
Peru	*	*	...	5
Spanish Possessions	8,955	6,367	3,305	...
English Possessions	291	45	6	363
Portuguese Possessions	4,635	2,006	100	...
French Possessions	2	*	49	...
Great Britain	31,259	30,458	39,613	31,041
Sweden	103	116	292	236
Uruguay	6	66	69	14
Syria	*	*	...	...
Greece	*	*	299	...
Costa Rica	*	*	9	...
To the order of	...	9,381	...	16,339
Others	†7,320	1,405	1,301	1,132
Totals	136,981	169,090	169,650	142,177

*If any, included in "Others." †Includes 4,704 tons to Turkey.

Brazil—Imports and Exports

Imports and exports of Brazil by calendar years (000's omitted):

	Imports 1928	Imports 1929	Exports 1928	Exports 1929
Wheat, bus	25,452	29,386	..	..
Wheat flour, bbls	2,343	1,824	1	..
Corn, bus	27	..	62	..

Net imports (imports less exports) of grain and grain products (the latter in terms of grain) by calendar years (000's omitted):

	Wheat	Corn
1929	37,596	..
1928	35,959	*[illegible]
1927	32,087	3
1926	31,482	41
1925	27,320	[illegible]
1924	28,374	[illegible]
1923	18,025	[illegible]
1922	22,114	199
1921	17,290	144

*Net exports

CROP YEAR TRADE IN VARIOUS COUNTRIES

Exports and imports of wheat and wheat flour in the principal countries for crop years 1927-28 and 1928-29, as compiled by the Dominion bureau of statistics (000's omitted):

WHEAT, BUS

EXPORTS—	1928-29	1929-30
United States	107,701	96,455
Canada	364,425	165,766
Argentina	214,054	144,738
Australia	81,309	40,781
India	610	4,697
Hungary	13,797	16,671
Roumania	680	1,822
Jugoslavia	8,701	22,163
Other countries	30,381	36,437
Totals	811,668	518,330
IMPORTS—		
Germany	93,599	52,546
Belgium	43,511	42,964
France	62,491	32,459
Great Britain and North Ireland	192,519	190,076
Irish Free State	10,744	9,246
Italy	89,848	45,139
Netherlands	22,648	24,893
Sweden	10,155	8,304
Switzerland	16,616	16,953
Czechoslovakia	8,208	6,004
Japan	27,954	18,203
Other countries	113,299	69,900
Totals	681,621	515,716

FLOUR, BBLS

EXPORTS—	1928-29	1929-30
United States	13,329	12,889
Canada	11,809	6,778
Argentina	1,739	1,216
Australia	5,846	4,676
India	546	568
Hungary	2,616	2,890
Roumania	193	157
Japan	2,360	1,176
Other countries	4,735	6,423
Totals	43,171	36,771
IMPORTS—		
Germany	364	302
Austria	1,388	1,923
Denmark	797	735
Finland	1,480	1,269
Great Britain and North Ireland	4,771	6,371
Irish Free State	1,719	1,848
Norway	963	702
Netherlands	1,729	1,405
Czechoslovakia	1,986	1,701
Egypt	2,216	2,132
Other countries	3,176	2,872
Totals	20,678	21,323

ACREAGE AND YIELD OF FOREIGN AGRICULTURAL CROPS

A Section Devoted to Statistics Dealing With the Acreage Planted to and the Yield of Various Agricultural Crops in Countries Which Are Foreign to the United States.

CANADA—1930 CROPS, BY PROVINCES

Canadian production and acreage of the more important grains in 1929, by provinces (in bushels, 000's omitted):

	Bushels— Wheat	Oats	Barley	Acres— Wheat	Oats	Barley
Prince Edward Island	185	[illegible]	[illegible]	26	[illegible]	[illegible]
Nova Scotia	104	[illegible]	309	6	115	11
New Brunswick	180	[illegible]	321	10	223	[illegible]
Quebec	1,050	60,635	[illegible]	58	1,900	156
Ontario	20,226	97,482	[illegible]	776	2,169	610
Manitoba	45,278	50,562	[illegible]	2,470	1,690	1,991
Saskatchewan	196,322	125,509	[illegible]	14,326	4,531	2,016
Alberta	132,900	77,940	[illegible]	7,161	2,165	748
British Columbia	1,321	4,195	[illegible]	61	91	10
Totals	397,872	423,148	135,160	24,897	13,253	5,558

Canada—Crops

Grain crops of Canada, as reported by the Dominion Bureau of Statistics, by crop years, in bushels (000's omitted):

	Wheat	Barley	Buckwheat	Corn
1930	397,872	135,160	10,903	5,826
1929	299,520	102,313	10,470	5,183
1928	533,572	136,391	10,899	5,241
1927	440,025	96,938	10,890	4,262
1926	406,269	103,651	9,932	7,815
1925	416,850	112,668	10,449	10,564
1924	262,097	88,807	11,412	11,998
1923	474,199	76,997	9,743	13,608
1922	399,786	71,865	9,701	13,798
1931	300,858	59,709	8,230	14,904
1920	263,189	63,311	8,995	14,335
1919	193,260	56,389	10,551	16,940
1918	189,075	77,287	11,376	14,205
1917	233,743	55,058	7,149	7,763
1916	262,781	42,770	5,976	6,282
1915	393,543	54,017	7,866	14,368
1914	161,280	36,201	8,626	13,924
1913	231,717	48,319	8,372	16,773
1912	224,159	49,398	10,617	16,950
1911	230,924	44,415	8,441	19,185
1910	149,989	45,147	7,244	18,726
1909	166,744	55,398	7,806	19,258

	Flaxseed	Oats	Rye	Peas
1930	4,399	423,148	22,018	2,371
1929	2,060	282,838	13,160	1,979
1928	3,614	452,153	14,618	2,588
1927	4,885	439,713	14,951	2,795
1926	6,547	404,598	11,810	2,635
1925	9,297	513,384	13,689	3,411
1924	9,695	405,976	13,751	3,239
1923	7,140	563,998	23,231	2,898
1922	5,008	491,239	32,373	3,675
1921	4,112	426,233	21,455	2,770
1920	7,998	530,710	11,306	3,528
1919	5,473	394,387	10,207	3,406
1918	6,055	426,312	8,604	4,313
1917	5,935	403,010	3,857	3,026
1916	8,260	410,211	2,876	2,218
1916	6,114	464,954	2,486	3,464
1914	7,175	313,078	2,017	3,363
1913	17,539	404,669	2,300	3,952
1912	26,130	391,629	2,128	3,913
1911	10,076	365,179	2,492	4,666
1910	3,802	323,449	1,543	6,638
1909	2,213	353,466	1,715	8,145

ACRES (000'S OMITTED)

	Wheat	Barley	Buckwheat	Corn
1930	24,898	5,559	490	161
1929	25,255	5,925	516	152
1928	24,119	4,881	503	139
1927	22,460	3,506	471	132
1926	22,768	3,795	460	210
1925	21,958	4,076	465	239
1924	22,056	3,408	...	...
1923	22,671	2,784	440	317
1922	22,423	2,600	431	318
1921	23,261	2,796	361	297
1920	18,232	2,552	378	292
1919	19,126	2,646	445	265
1918	17,354	3,154	548	250
1917	14,756	2,392	396	234
1916	15,370	1,803	342	173
1915	15,109	1,718	344	253
1914	10,294	1,496	354	256
1913	11,015	1,613	381	278
1912	10,997	1,581	399	298

	Flaxseed	Oats	Rye	Peas
1930	582	13,259	1,448	129
1929	382	12,479	992	125
1928	378	13,137	840	154
1927	476	13,240	743	151
1926	816	13,495	737	145
1925	1,128	14,672	852	183
1924	1,277	14,491	791	...
1923	629	14,388	1,448	169
1922	566	14,541	2,105	190
1921	533	16,949	1,842	193
1920	1,428	15,850	650	186
1919	1,093	14,952	753	230
1918	1,068	14,790	555	236
1917	920	13,313	212	199
1916	658	10,996	148	153
1915	463	11,556	122	196
1914	1,084	10,062	111	206
1913	1,553	10,434	119	219
1912	2,022	9,966	127	260

Canadian Wheat Forecast

Comparative estimates of the Canadian wheat crop as issued on the last day of the month mentioned by the Dominion bureau of statistics, in bushels (000,000's omitted):

Year—	June	July	Aug.	Sept.	Oct.	Nov.	Final
1930	...	...	...	355	396	395	397
1929*	...	...	...	294	...	294	300
1928*	...	...	...	550	...	501	567
1927	325	357	459	...	444	...	480
1926	349	317	399	...	406	...	410
1925	365	375	392	...	422	...	411
1924	319	282	292	...	272	...	262
1923	366	383	470	470	...	...	474
1922	339	321	389	...	391	...	400
1921	309	288	294	...	330	...	301
1920	288	267	289	293	...	...	263
1919	285	249	205	194	196	...	193
1918	259	233	...	210	...	...	189
1917	...	...	249	232	...	...	234

*Only three reports issued.

Western Canada—Coarse Grain Crops

Coarse grain crops of Manitoba, Saskatchewan and Alberta, by crop years, in bushels (000's omitted):

	Oats	Barley	Flaxseed	Rye
1930	254,011	109,495	4,293	20,641
1929	141,620	79,787	1,970	11,982
1928	297,676	112,684	3,519	13,158
1927	269,453	75,846	4,773	13,287
1926	241,632	85,581	6,430	10,022
1925	322,254	94,141	9,138	11,545
1924	229,046	68,576	9,577	11,588
1923	365,491	59,778	7,044	[illegible]
1922	289,660	53,612	4,901	[illegible]
1921	284,147	44,681	3,945	19,109
1920	314,297	40,760	7,588	8,273
1919	241,068	47,946	7,117	6,009
1918	222,049	47,607	5,776	.....
1917	264,877	40,834	5,834	2,000
1916	201,690	28,280	4,209	2,535
1915	286,197	43,129	6,660	1,545
1914	334,840	35,317	10,559	.....

Canadian Wheat Acreage and Yield

Estimates of the Canadian spring and winter wheat crops, with acreage, as made by the dominion bureau of statistics (000's omitted in acreage and 000,000's in yield):

	Acres— Winter	Spring	Total	Bushels— Wint	Spng	Total
1930*	815	24,082	[illegible]	21	376	397
1929*	834	24,421	25,255	20	279	299
1928	819	23,300	24,119	20	513	533
1927	853	21,607	22,460	22	457	479
1926	880	22,107	22,987	21	385	406
1925	794	21,179	21,973	24	387	411
1924	774	21,281	22,055	22	240	262
1923	816	21,856	22,672	19	455	474
1922	893	21,530	22,423	19	381	400
1921	721	22,540	23,261	16	285	301
1920	814	17,418	18,232	19	244	263
1919	673	18,453	19,126	16	177	193
1918	417	16,937	17,354	8	181	189

*Jan. 1 estimate.

Ontario—Grain Crops

Estimates by the provincial government of the acreage and production of principal grains in Ontario (000's omitted):

	1930 Acres	1930 Bus	1929 Acres	1929 Bus
Wheat—				
Winter	677	18,017	[illegible]	17,821
Spring	99	2,179	[illegible]	1,930
Oats	2,469	97,482	2,335	73,640
Barley	610	20,911	622	18,032
Rye	53	937	52	873
Buckwheat	275	5,676	294	5,562
Corn	130	7,723	120	6,674

Italy—Crops

Grain crops of Italy, as reported by the Ministry of Agriculture, by calendar years, in bushels (000's omitted):

	Wheat	Corn	Oats	Barley	Rye
1930*	213,111	112,825	36,846	11,165	6,121
1929*	260,774	100,132	48,261	12,068	6,909
1928*	228,696	64,990	48,412	11,024	6,535
1927*	195,809	83,938	30,720	9,443	5,937
1926*	219,783	117,884	40,710	11,040	6,484
1925*	240,844	109,980	44,682	13,861	6,704
1924*	170,144	105,679	33,296	[illegible]	6,114
1923*	224,839	89,205	39,827	[illegible]	6,484
1922*	161,641	76,830	30,464	8,253	5,562
1921*	194,071	91,432	38,415	11,119	6,519
1920	141,337	89,299	24,233	5,870	4,539
1919	169,769	85,846	34,695	8,327	4,571
1918	183,294	76,590	46,353	9,686	5,232
1917	139,999	82,771	33,889	7,422	4,460
1916	176,530	81,547	26,076	10,109	5,342
1915	170,541	121,824	31,443	11,051	4,362
1914	169,581	104,966	27,447	6,917	5,260
1913	214,772	108,388	43,469	10,803	6,589
1912	165,720	98,668	28,306	8,403	5,285
1911	192,395	93,680	40,973	10,882	5,297

Flaxseed crop (000's not omitted): 1929, 264,000 bus; 1928, 304,000; 1927, 298,000; 1926, 458,238; 1925, 504,000; 1924, 422,000; 1923, 402,000; 1922, 413,000; 1921, 515,000.

ACRES (000'S OMITTED)

	Wheat	Corn	Oats	Barley	Rye
1930*	11,900	3,705	1,267	580	...
1929*	12,172	3,716	1,303	579	308
1928*	12,263	3,711	1,286	560	320
1927*	12,290	3,754	1,202	635	317
1926*	12,140	3,768	1,230	586	298
1925*	11,673	3,840	1,202	576	311
1924*	11,284	3,808	1,106	572	310
1923*	11,554	3,790	1,223	569	315
1922*	11,489	3,857	1,214	576	320
1921	11,779	3,528	1,225	540	327
1920	11,290	3,710	1,159	494	282
1919	10,571	3,709	1,129	480	272
1918	10,789	3,658	1,211	478	270
1917	10,550	3,853	1,107	469	279
1916	11,679	3,919	1,102	596	285
1915	12,502	3,887	1,208	609	294
1914	11,785	3,844	1,213	610	303
1913	11,721	3,888	1,251	620	307
1912	11,751	3,938	1,254	604	305
1911	11,741	4,066	1,270	612	302

*Includes Venezia Tridentina and Venezia Giulia.

Western Canada—Crops

Government estimates of the four leading crops in each of the provinces of Manitoba, Saskatchewan and Alberta, by crop years, in bushels (000's omitted):

MANITOBA

Year	Wheat	Oats	Barley	Flax
1930	45,278	50,562	49,974	1,036
1929	31,565	30,740	36,518	445
1928	[illegible]	53,376	[illegible]	804
1927	[illegible]	25,767	[illegible]	1,198
1926	[illegible]	52,517	50,803	2,043
1925	39,453	71,770	52,156	1,664
1924	41,464	70,729	40,923	3,403
1923	32,804	58,704	25,726	1,395
1922	64,074	76,379	30,517	[illegible]
1921	39,054	[illegible]	19,681	544
1920	37,542	57,657	17,520	1,157
1919	42,509	[illegible]	24,542	1,140
1918	48,142	[illegible]	27,963	1,090
1917	42,639	[illegible]	26,014	552
1916	30,439	[illegible]	24,116	587
1915	96,663	101,078	[illegible]	740
1914	52,491	62,034	[illegible]	1,001
1913	62,755	81,410	33,014	1,301
1912	58,433	87,190	33,795	[illegible]
1911	61,058	73,786	23,999	1,205
1910	39,916	42,647	12,960	410
1909	45,774	50,983	16,416	253
1908	[illegible]	44,686	18,136	502
1907	[illegible]	[illegible]	16,752	317

SASKATCHEWAN

Year	Wheat	Oats	Barley	Flax
1930	196,322	125,509	[illegible]	[illegible]
1929	154,665	68,944	[illegible]	1,462
1928	303,399	156,043	44,266	2,654
1927	212,860	142,526	27,129	3,373
1926	215,101	131,905	25,563	4,305
1925	240,551	174,967	[illegible]	[illegible]
1924	132,918	97,345	[illegible]	[illegible]
1923	252,622	191,810	[illegible]	5,493
1922	240,480	200,101	18,775	4,662
1921	188,000	170,513	13,343	3,230
1920	113,135	141,549	10,501	5,705
1919	88,[illegible]	120,569	13,304	5,797
1918	92,492	107,252	11,888	4,204
1917	117,893	123,214	14,068	4,710
1916	121,864	138,882	9,469	5,452
1915	214,794	146,898	9,462	7,806
1914	74,610	[illegible]	5,627	5,086
1913	112,369	110,210	9,279	[illegible]
1912	107,168	107,[illegible]	8,320	14,171
1911	96,596	[illegible]	6,859	10,377
1910	72,666	63,315	5,859	3,044
1909	90,215	105,465	7,833	4,449
1908	43,540	41,633	2,695	1,570
1907	27,692	23,325	1,350	1,365

ALBERTA

Year	Wheat	Oats	Barley	Flax
1930	132,900	77,910	18,999	190
1929	90,534	41,936	12,514	63
1928	155,662	88,257	16,349	61
1927	171,286	101,160	12,000	202
1926	113,120	57,210	8,910	[illegible]
1925	108,429	75,517	14,924	35
1924	61,312	60,972	10,293	55
1923	166,834	114,977	14,774	156
1922	61,883	32,290	5,388	83
1921	53,044	64,193	11,657	[illegible]
1920	83,461	115,091	12,739	726
1919	37,106	61,760	9,600	180
1918	24,751	60,323	7,756	825
1917	52,992	86,288	10,386	978
1916	41,500	72,000	9,000	585
1915	43,575	65,250	14,700	600
1914	13,694	27,596	7,473	601
1913	21,610	44,078	8,645	799
1912	19,830	37,085	6,287	1,196
1911	20,066	27,604	3,937	153
1910	7,904	12,158	1,889	46
1909	8,467	24,819	3,310	131
1908	7,094	15,922	1,949	73
1907	4,194	9,247	1,082	60

TOTALS, THREE PROVINCES

Year	Wheat	Oats	Barley	Flax
1930	374,500	254,011	109,495	4,293
1929	276,664	141,620	79,787	1,970
1928	511,444	297,676	112,684	3,519
1927	414,919	269,453	75,846	4,773
1926	379,898	241,632	85,561	6,430
1925	388,433	322,254	94,141	9,138
1924	235,694	229,046	68,[illegible]	9,577
1923	452,260	365,491	58,778	7,044

Austria—Crops

Grain crops of Austria, by calendar years (000's omitted):

	Wheat	Corn	Oats	Rye	Barley
1930	11,384	4,417	26,683	[illegible]	11,293
1929	11,559	[illegible]	31,971	19,023	12,373
1928	12,915	4,248	31,841	19,929	12,951
1927	11,960	4,948	30,231	20,136	[illegible]
1926	9,401	3,818	30,001	18,050	[illegible]
1925	10,671	4,597	26,761	21,656	9,217
1924	8,490	3,719	22,843	16,189	7,208
1923	8,859	3,450	25,861	15,836	7,855
1922	7,422	[illegible]	18,317	13,599	6,599
1921	6,530	2,521	19,000	13,161	5,491
1920	5,434	2,125	16,008	10,098	4,424
1919	6,114	2,115	13,581	9,035	3,822
1918	5,159	2,231	12,933	10,694	4,232
1917	5,993	2,810	10,901	10,921	3,291

ACRES (000'S OMITTED)

	Wheat	Corn	Oats	Rye	Barley
1930	516	139	[illegible]	897	414
1929	515	136	[illegible]	924	331
1928	514	143	[illegible]	925	354
1927	505	147	769	947	366
1926	500	152	777	972	342
1925	[illegible]	149	760	949	348
1924	482	147	843	927	361
1923	475	[illegible]	802	922	334
1922	460	148	704	834	313
1921	378	112	662	759	266
1920	371	102	[illegible]	714	240
1919	371	104	606	717	233
1918	400	113	651	773	327
1917	411	121	700	829	263

Australia—Crops

Australian wheat crops, by crop years, in bushels (000's omitted):

1930-31	205,000	1914-15	25,677
1929-30	126,477	1913-14	103,253
1928-29	159,769	1912-13	91,893
1927-28	118,200	1911-12	71,551
1926-27	160,868	1910-11	95,021
1925-26	111,504	1909-10	90,414
1924-25	161,559	1908-09	62,590
1923-24	124,993	1907-08	44,656
1922-23	109,455	1906-07	66,421
1921-22	129,089	1905-06	68,520
1920-21	145,874	1904-05	[illegible]
1919-20	45,974	1903-04	[illegible]
1918-19	75,638	1902-03	12,000
1917-18	118,349	1901-02	38,562
1916-17	152,420	1900-01	48,353
1915-16	178,998		

ACRES (000'S OMITTED)

1930-31	18,160	1915-16	12,484
1929-30	14,931	1914-15	9,651
1928-29	14,840	1913-14	9,287
1927-28	12,274	1912-13	7,339
1926-27	11,683	1911-12	7,428
1925-26	10,175	1910-11	7,372
1924-25	10,825	1909-10	6,586
1923-24	9,540	1908-09	[illegible]
1922-23	9,764	1907-08	[illegible]
1921-22	9,665	1906-07	5,982
1920-21	9,072	1905-06	6,122
1919-20	6,336	1904-05	6,270
1918-19	7,990	1903-04	5,546
1917-18	9,775	1902-03	5,156
1916-17	11,533		

Grain crops of Australia, by crop years, in bushels (000's omitted):

	Corn	Oats	Rye	Barley
1929-30	.....	17,221	...	...
1928-29	8,308	17,663	79	6,901
1927-28	11,391	15,105	[illegible]	5,175
1926-27	7,119	15,735	[illegible]	7,231
1925-26	7,419	15,288	[illegible]	6,619
1924-25	[illegible]	23,059	[illegible]	[illegible]
1923-24	8,115	21,829	[illegible]	...
1922-23	7,385	18,728	50	...
1921-22	6,500	15,184	50	...
1920-21	7,529	18,521	[illegible]	...
1919-20	6,761	12,559	[illegible]	...
1918-19	6,913	[illegible]	34	...
1917-18	9,122	[illegible]	17	...
1916-17	8,796	14,460	100	...
1915-16	7,005	17,060	131	...
1914-15	8,722	[illegible]	70	...
1913-14	[illegible]	[illegible]	117	...
1912-13	8,620	16,025	99	...
1911-12	9,222	9,863	[illegible]	...

ACRES (000'S OMITTED)

	Corn	Oats	Rye	Barley
1929-30	...	1,460	...	...
1928-29	315	1,054	[illegible]	351
1927-28	401	1,122	[illegible]	[illegible]
1926-27	286	811	3	371
1925-26	297	1,013	[illegible]	373
1924-25	390	1,128	[illegible]	[illegible]
1923-24	316	1,077	[illegible]	...
1922-23	313	1,014	[illegible]	...
1921-22	...	733	[illegible]	...
1920-21	[illegible]	937	[illegible]	...
1919-20	...	1,069	[illegible]	...
1918-19	287	768	[illegible]	...
1917-18	332	616	5	...
1916-17	360	844	[illegible]	...
1915-16	321	[illegible]	11	...
1914-15	310	[illegible]	[illegible]	...
1913-14	332	859	[illegible]	...
1912-13	315	874	[illegible]	...
1911-12	310	617	[illegible]	...

Netherlands—Crops

Grain crops of the Netherlands, as reported by the Department van Landbouw, Nijverheid en Handel, by calendar years, in bushels (000's omitted):

	Wheat	Barley	B'kwh't	Oats	Rye
1930	4,587	3,477	...	17,327	12,401
1929	5,467	5,919	...	25,776	18,[illegible]
1928	7,336	4,494	...	24,501	17,333
1927	6,157	3,341	...	21,144	13,189
1926	5,465	3,544	...	22,564	13,620
1925	5,743	3,586	...	20,314	16,231
1924	4,706	[illegible]	...	20,882	16,560
1923	6,711	[illegible]	...	18,641	14,571
1922	6,161	3,143	...	17,817	17,140
1921	8,[illegible]	3,302	...	20,091	14,987
1920	5,993	2,743	...	20,443	14,245
1919	6,016	2,353	243	21,338	14,714
1918	5,431	2,615	205	18,617	13,022
1917	3,949	2,155	274	17,855	13,261
1916	4,786	2,379	295	17,925	11,445
1915	7,030	3,390	283	20,692	16,114
1914	5,772	3,020	430	19,369	13,471
1913	5,164	3,131	430	18,909	16,895
1912	5,604	3,354	435	16,317	16,094
1911	5,511	3,416	379	17,724	16,110

Flaxseed crop (000's not omitted): 1928, 593,976; 1927, 2[illegible]1,191; 1926, 303,509; 1925, 315,000; 1924, 346,000; 1923, 258,000; 1922, [illegible]; 1921, 21[illegible].

ACRES (000'S OMITTED)

	Wheat	Barley	B'kwh't	Oats	Rye
1930	144	[illegible]	..	380	421
1929	113	73	..	397	[illegible]
1928	148	70	..	377	485
1927	153	[illegible]	..	376	487
1926	132	67	..	381	487
1925	138	73	..	366	490
1924	119	62	..	377	483
1923	154	59	..	381	519
1922	150	61	12	394	500
1921	180	62	14	383	499
1920	152	56	..	395	492
1919	168	57	19	389	497
1918	148	66	31	392	472
1917	121	52	29	383	467
1916	134	60	18	343	494
1915	153	64	19	358	546
1914	148	67	24	348	568
1913	141	66	26	348	564
1912	142	56	29	341	563
1911	142	60	22	341	567

New Zealand—Crops

Grain crops of New Zealand, as reported by the Dominion Government Statistician, by crop years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats
1929-30.	7,100	709	...	3,850
1928-29.	8,833	814	456	3,741
1927-28.	9,541	899	482	4,702
1926-27.	9,164	1,302	490	[illegible]
1925-26.	4,617	994	424	[illegible]
1924-25.	[illegible]	831	426	6,956
1923-24.	[illegible]	622	406	2,456
1922-23.	[illegible]	623	506	7,110
1921-22.	10,565	1,200	488	8,441
1920-21.	6,872	1,663	501	6,531
1919-20.	4,560	850	406	8,710
1918-19.	6,568	733	415	6,885
1917-18..	6,803	587	379	5,099
1916-17..	5,079	783	283	5,541
1915-16..	7,103	846	351	7,894
1914-15..	6,854	616	284	11,797
1913-14..	5,227	1,244	317	15,206
1912-13..	5,174	1,421	229	14,012
1911-12..	7,256	1,294	287	20,282
1910-11..	8,280	956	588	10,436

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats
1929-30....	235	20	..	79
1928-29....	255	19	[illegible]	73
1927-28...	261	[illegible]	10	87
1926-27...	220	[illegible]	10	110
1925-26...	152	[illegible]	9	103
1924-25...	167	[illegible]	9	[illegible]
1923-24...	174	[illegible]	[illegible]	64
1922-23...	276	17	10	144
1921-22...	353	47	[illegible]	171
1920-21...	220	35	[illegible]	148
1919-20...	193	23	9	180
1918-19...	205	19	10	173
1917-18...	281	19	8	156
1916-17...	219	30	6	177
1915-16...	329	30	8	213
1914-15...	230	18	5	288
1913-14...	[illegible]	32	8	362
1912-13...	199	37	5	387
1911-12...	216	32	6	404
1910-11...	322	33	13	303

Finland—Crops

Grain crops of Finland, as reported by the United States Department of Agriculture, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats	Rye
1930.....	1,125	6,223	41,468	14,104
1929.....	1,095	6,279	38,732	12,909
1928.....	998	5,767	39,255	10,999
1927.....	1,064	6,571	43,609	12,892
1926.....	920	7,181	40,898	11,888
1925.....	929	6,467	40,411	13,684
1924.....	790	5,969	33,912	11,260
1923.....	687	3,893	26,304	9,417
1922.....	710	6,466	37,174	10,530
1921.....	280	6,113	34,846	10,385
1920.....	[illegible]	4,983	24,561	9,173
1919.....	306	5,296	24,133	10,505
1918.....	...	5,635	22,649	11,031
1917.....	...	...	...	...
1916.....	247	4,885	22,067	9,899
1915.....	260	5,021	23,905	11,270
1914.....	196	4,316	19,572	11,291

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Rye
1930........	51	272	1,137	568
1929........	[illegible]	269	1,124	566
1928........	[illegible]	272	1,140	550
1927........	[illegible]	267	1,111	677
1926........	39	272	1,090	565
1925........	38	272	1,073	579
1924........	37	272	1,049	564
1923........	40	273	1,066	583
1922........	38	271	1,061	586
1921........	20	272	1,042	605
1920........	19	293	1,013	603
1919........	19	295	1,025	607
1911-15 av..	18	285	980	590

Portugal—Crops

Estimates of the grain crops of Portugal for such calendar years as are covered in the reports of the Portuguese Ministry of Finance or of the International Institute of Agriculture, in bushels (000's omitted):

	Wheat	Corn	Oats	Rye	Barley
1930..	13,154	....	7,716	4,862	2,651
1929..	10,600	14,903	6,037	5,330	1,958
1928..	7,546	14,283	5,063	3,966	1,430
1927..	11,447	15,107	5,628	4,677	1,982
1926..	8,527	12,254	4,754	3,608	1,486
1925..	12,437	14,316	6,292	6,292	2,210
1924..	10,624	11,635	6,308	6,303	2,054
1923..	13,190	10,219	8,098	5,222	2,453
1922..	10,008	11,666	6,818	5,412	1,823
1921..	9,418	11,374	6,617	4,664	1,610
1920..	10,376	11,721	6,145	2,969	[illegible]
1917..	6,660	....	....	....	....
1916..	7,372	9,523	3,394	3,093	1,328
1915..	6,571	9,276	....	....	....
1914..	10,000	15,000	....	....	....
1913..	9,186	15,000	....	....	....
1912..	7,500	16,000	....	....	....
1911..	11,684	....	....	....	....

Mexico—Crops

Grain crops of Mexico, as estimated in the fragmentary reports of the Anuario Estadistica Mexicana, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn
1930.........	11,274	.....	52,147
1929.........	11,333	.....	59,631
1928.........	11,031	3,968	85,640
1927.........	11,890	4,493	81,839
1926.........	11,293	4,308	86,429
1925.........	10,357	3,807	64,873
1924.........	10,367	3,988	106,345
1923.........	13,667	3,910	101,320
1922.........	13,626	3,887	68,260
1921.........	5,089	456	71,005
1920.........	14,951	.....	.....
1919.........	14,239	.....	.....
1918.........	6,959	17,711	75,985
1915.........	4,000	10,000	60,000
1914.........	4,389	10,839	78,443
1907.........	11,468	10,840	205,737
1906.........	12,862	7,615	110,065
1905.........	11,120	6,616	86,544

WORLD GRAIN CROPS

The following table shows world wheat production by continents, exclusive of Russia and China, as reported by the International Institute of Agriculture and the United States Department of Commerce, in millions of bushels:

	North America	South America	Europe	Asia	Africa	Australasia	*Total of reporting countries	*Estimated world total	Russia
1930-31...	1,258	†271	1,361	425	[illegible]	224	3,651	[illegible]	1,157
1929-30...	[illegible]	221	1,434	359	134	134	3,407	[illegible]	703
1928-29...	[illegible]	401	1,407	332	111	169	3,913	3,976	795
1927-28...	1,370	290	1,268	377	112	128	3,545	3,661	776
1926-27...	1,250	262	1,210	367	98	170	3,357	3,426	914
1925-26...	1,081	236	1,397	373	113	119	3,318	[illegible]	782
1924-25...	1,137	232	1,058	400	92	170	3,089	[illegible]	382
1923-24...	1,286	295	1,257	410	113	129	3,490	[illegible]	418
1922-23...	1,211	233	1,044	407	82	118	3,096	[illegible]	243
1921-22...	1,121	231	1,216	290	104	140	3,102	3,169	206
1920-21...	[illegible]	195	949	419	[illegible]	153	2,865	2,948	318
1919-20...	[illegible]	250	899	321	[illegible]	61	2,770	2,821	‡...
1918-19...	[illegible]	216	909	413	125	82	2,863	2,911	‡...
1917-18...	[illegible]	278	740	425	92	125	2,636	2,674	606
1916-17...	905	117	1,049	359	94	157	2,681	2,734	‡...
1915-16...	1,424	204	1,126	412	103	186	3,454	3,497	820
1914-15...	1,058	195	1,072	341	76	33	2,775	2,834	834
1913-14...	999	133	1,301	403	91	108	3,036	3,098	1,028
1912-13...	966	220	1,284	404	67	97	3,038	[illegible]	801
1911-12...	873	201	1,347	408	91	79	2,999	[illegible]	563
1910-11...	777	173	1,201	387	78	103	2,719	[illegible]	836
1909-10...	877	167	1,240	310	76	99	2,769	2,819	846

*Exclusive of Russia and China. †Argentina only. ‡Not available.

Following are the estimated totals of corn, oats, barley, rye and flaxseed crops in the world, as reported by the United States Department of Agriculture, in millions of bushels:

	Corn	Oats	Barley	Rye	Flaxseed
1930-31....	....	....	....	1,012	....
1929-30....	4,338	3,784	1,747	1,013	....
1928-29....	4,280	[illegible]	1,703	976	153
1927-28....	[illegible]	[illegible]	1,483	903	157
1926-27....	4,476	3,621	1,442	821	142
1925-26....	4,586	3,764	1,486	1,016	160
1924-25....	3,858	3,623	1,312	747	134
1923-24....	4,520	3,755	1,416	925	123
1922-23....	4,240	3,310	1,306	864	....
1921-22....	4,315	3,076	1,240	853	....
1920-21....	4,689	3,645	1,262	619	....
1919-20....	4,242	3,038	1,120	681	....
1918-19....	3,679	3,216	1,277	590	....
1917-18....	4,178	3,217	1,170	548	....
1916-17....	3,770	[illegible]	1,201	663	....
1915-16....	4,362	[illegible]	1,244	691	....
1914-15....	4,186	3,266	1,213	766	....
1913-14....	3,890	3,580	1,400	892	....
1912-13....	4,451	3,700	1,345	[illegible]	....
1911-12....	3,908	3,135	1,326	[illegible]	....
1910-11....	4,060	3,223	1,212	[illegible]	....
1909-10....	3,868	3,116	1,338	[illegible]	....

France—Crops

Grain crops of France, as reported by the French Ministry of Agriculture, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Buckwheat	Corn
1930...	232,000	45,332	.....	.....
1929...	319,863	69,023	.....	19,612
1928...	281,285	50,856	.....	12,115
1927...	276,128	50,327	.....	[illegible]
1926...	230,863	45,925	.....	[illegible]
1925...	330,340	47,161	.....	20,003
1924...	281,179	48,051	.....	18,027
1923...	275,569	45,024	.....	12,673
1922...	243,315	40,908	19,047	12,676
1921...	323,467	38,318	11,568	10,393
1920...	236,929	38,382	16,972	15,267
1919...	[illegible]	26,285	12,491	9,976
1918...	[illegible]	27,476	10,296	9,760
1917...	134,575	37,265	17,495	14,902
1916...	204,908	38,268	12,582	16,635
1915...	222,776	31,787	21,337	17,104
1914...	282,689	44,818	24,463	22,530
1913...	319,370	47,939	26,016	21,380
1912...	334,333	50,687	22,996	23,734
1911...	322,339	49,863	9,922	16,860
	Oats	**Rye**	**Flaxseed**	**Millet**
1930...	302,747	29,267	...	...
1929...	395,752	39,432	592	...
1928...	340,252	34,079	762	...
1927...	343,279	33,956	501	...
1926...	308,374	30,024	689	...
1925...	308,374	43,663	631	...
1924...	305,535	40,273	417	...
1923...	336,944	36,517	288	...
1922...	288,264	38,412	289	678
1921...	244,455	44,392	288	253
1920...	291,406	34,492	446	381
1919...	179,825	30,577	347	394
1918...	176,504	28,936	188	350
1917...	214,259	24,650	158	500
1916...	277,117	33,351	131	606
1915...	236,551	83,148	161	762
1914...	318,332	43,884	336	639
1913...	357,049	50,055	740	733
1912...	355,089	48,746	576	608
1911...	349,247	46,749	496	492

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats	Rye
1930..	12,991	1,799	762	8,585	1,905
1929..	12,749	1,853	851	8,665	1,936
1928..	12,956	1,766	840	8,657	1,900
1927..	13,059	1,747	863	8,544	1,920
1926..	12,966	1,706	834	8,673	1,958
1925..	13,872	1,727	818	8,599	2,147
1924..	13,620	1,765	846	8,636	2,190
1923..	13,659	1,684	845	8,457	2,215
1922..	13,072	1,712	790	8,491	2,195
1921..	13,300	1,679	813	8,421	2,227
1920..	12,686	1,641	829	8,278	2,148
1919..	11,633	1,194	736	7,055	1,907
1918..	11,179	1,371	754	6,721	1,746
1917..	10,357	1,699	847	7,308	1,834
1916..	12,429	1,638	882	7,777	2,148
1915..	13,564	1,675	935	8,062	2,308
1914..	14,975	1,780	1,128	8,873	2,614
1913..	16,166	1,878	1,133	9,833	2,906
1912..	16,238	1,877	1,177	9,839	2,969
1911..	15,897	1,907	1,049	9,863	2,902

Jugoslavia—Crops

Grain crops of Jugoslavia since 1919, and those of Serbia prior to 1916, in bushels (000's omitted):

	Wheat	Corn	Rye	Barley	Oats
1930..	87,225	137,888	9,562	19,231	16,638
1929..	94,990	163,285	8,268	18,917	24,166
1928.	103,294	71,489	7,627	18,105	25,236
1927..	56,668	82,864	5,923	14,449	20,114
1926..	71,160	134,017	7,441	17,301	24,683
1925..	78,646	149,233	7,864	18,145	23,772
1924..	57,771	149,399	5,541	13,478	20,795
1923..	61,069	84,781	5,906	14,065	21,476
1922..	44,472	89,796	4,523	11,069	18,272
1921..	61,809	73,788	6,170	13,378	18,906
1920..	43,011	101,136	6,507	11,699	22,242
1919..	60,956	64,763	....	20,446	42,192

SERBIA

	Wheat	Corn	Rye	Barley	Oats
1915..	10,000	12,000	800	2,250	4,000
1914..	9,000	20,000	1,000	3,000	5,000
1913..	10,524	23,621	937	2,866	5,512
1912..	16,351	22,833	1,748	4,777	5,477

Switzerland—Crops

Grain crops of Switzerland, as reported by the International Institute of Agriculture, by calendar years, in bushels (000's omitted):

	Wheat	Oats	Barley	Rye	Corn
1930...	[illegible]	2,532	514	1,514	166
1929...	[illegible]	2,894	566	1,614	159
1928...	4,270	2,928	570	1,716	134
1927...	4,119	2,880	561	1,589	154
1926...	4,011	3,112	566	1,604	130
1925...	3,518	2,535	533	1,642	180
1924...	3,122	2,694	519	1,433	177
1923...	3,593	3,059	570	1,646	165
1922...	2,348	2,466	491	1,488	185
1921...	3,674	3,038	553	1,559	218
1920...	3,586	3,118	514	1,622	279
1919...	3,524	2,811	625	1,748	287
1918...	7,906	5,188	666	1,850	368
1917...	4,556	4,602	712	1,752	252
1916...	3,821	6,745	620	2,000	152
1915...	3,957	5,608	620	2,059	138
1914...	3,278	5,181	528	1,724	106
1913...	3,546	5,188	455	1,772	118
1912...	3,178	4,017	427	1,705	106

ACRES (000'S OMITTED)

	Wheat	Oats	Barley	Rye	Corn
1930.....	...	48	16	..	..
1929.....	121	51	16	49	3
1928.....	127	51	16	49	3
1927.....	127	51	16	49	3
1926.....	127	51	16	49	3
1925.....	105	49	15	47	4
1924.....	104	50	16	48	4
1923.....	105	51	16	48	4
1922.....	103	51	16	48	4
1921.....	110	52	16	57	6
1920.....	119	56	18	52	6
1919.....	130	57	18	55	6
1918.....	208	86	22	49	7
1917.....	139	70	19	56	[illegible]
1916.....	124	103	18	71	4
1915.....	114	92	16	66	[illegible]
1914.....	103	83	16	61	[illegible]
1913.....	102	81	13	60	[illegible]
1912.....	102	82	12	61	[illegible]

Bulgaria—Crops

Grain crops of Bulgaria, as reported by the Director General of Statistics, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1930..	60,994	22,184	33,974	9,961	12,991
1929..	33,192	9,380	36,995	9,416	7,337
1928..	49,153	15,621	20,272	6,139	8,067
1927..	42,121	12,867	20,954	6,446	6,051
1926..	40,904	11,102	27,265	6,736	7,221
1925..	49,643	14,652	26,759	10,228	8,889
1924..	24,698	7,945	24,756	6,371	4,303
1923..	36,223	11,063	26,867	9,188	6,862
1922..	37,704	11,941	15,479	9,144	7,453
1921..	29,239	8,489	24,172	6,657	6,095
1920..	30,003	9,451	20,851	7,004	6,056
1919..	29,775	9,260	25,457	7,387	6,140
1918..	26,341	7,094	8,144	3,613	4,427
1917..	33,294	11,980	17,780	6,558	5,901
1916..	27,764	10,037	17,471	6,440	5,356
1915..	36,940	11,848	29,821	9,130	7,107
1914..	25,980	9,217	31,075	8,080	7,256
1913..	43,502	11,486	28,979	8,704	8,087
1912..	44,756	12,440	28,475	8,707	8,422
1911..	48,295	12,390	30,590	10,421	8,992

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats	Rye
1930...	2,809	...	1,677	...	...
1929...	2,617	542	1,928	367	635
1928...	2,813	605	1,601	297	487
1927...	2,667	664	1,662	319	339
1926...	2,616	552	1,616	321	461
1925...	2,537	544	1,531	354	453
1924...	2,462	625	1,466	372	414
1923...	2,303	544	1,364	370	425
1922...	2,226	534	1,313	352	442
1921...	2,361	524	1,418	331	466
1920...	2,183	555	1,407	345	484
1919...	2,067	484	1,445	284	455
1918...	2,446	604	1,455	345	475
1917...	2,481	593	1,385	343	442
1916...	2,220	660	1,342	326	465
1915...	2,408	690	1,579	395	607
1914...	2,638	634	1,566	379	627
1913...	2,468	522	1,432	378	480
1912...	2,887	619	1,589	435	529
1911...	2,764	621	1,563	447	546

Argentina—Crops

Grain crops of Argentina, as officially estimated, by crop years, in bushels (000's omitted):

WHEAT

1930-31......	271,404	1914-15......	[illegible]
1929-30......	162,576	1913-14......	105,000
1928-29......	349,051	1912-13......	187,391
1927-28......	239,162	1911-12......	166,190
1926-27......	220,827	1910-11......	145,981
1925-26......	191,141	1909-10......	131,009
1924-25......	191,138	1908-9......	156,000
1923-24......	247,036	1907-8......	192,000
1922-23......	195,842	1906-7......	156,000
1921-22......	[illegible]	1905-6......	135,000
1920-21......	[illegible]	1904-5......	151,000
1919-20......	217,000	1903-4......	130,000
1918-19......	180,000	1902-3......	101,000
1917-18......	235,000	1901-2......	56,000
1916-17......	84,000	1900-1......	75,000
1915-16......	169,000		

ACRES (000'S OMITTED)

1930-31.......	19,699	1919-20.......	[illegible]
1929-30.......	13,591	1918-19.......	[illegible]
1928-29.......	[illegible]	1917-18.......	[illegible]
1927-28.......	[illegible]	1916-17.......	16,099
1926-27.......	18,252	1915-16.......	16,420
1925-26.......	19,197	1914-15.......	15,471
1924-25.......	17,792	1913-14.......	16,243
1923-24.......	17,177	1912-13.......	16,660
1922-23.......	16,264	1911-12.......	[illegible]
1921-22.......	13,927	1910-11.......	[illegible]
1920-21.......	14,817		

OTHER GRAINS

	Corn	Oats	Flaxs'd	Barley	Rye
1930-31..	.....	68,324	84,408	19,841	....
1929-30..	249,159	68,293	62,253	16,131	4,394
1928-29..	231,702	65,172	82,809	16,814	8,960
1927-28..	305,164	52,290	79,444	14,560	6,614
1926-27..	320,295	66,378	69,091	18,400	5,997
1925-26..	279,616	80,433	76,000	17,054	4,733
1924-25..	186,298	53,456	46,084	6,974	1,457
1923-24..	276,756	76,338	58,006	....	3,897
1922-23..	176,103	55,597	47,577	....	3,526
1921-22..	176,171	32,973	36,045	....	1,692
1920-21..	230,420	47,619	50,470	....	....
1919-20..	[illegible]	[illegible]	42,038	....	....
1918-19..	[illegible]	[illegible]	30,776	....	....
1917-18..	159,240	68,635	19,588	....	....
1916-17..	58,839	[illegible]	[illegible]	....	....
1915-16..	161,133	[illegible]	[illegible]	....	....
1914-15..	325,179	[illegible]	41,309	....	....
1913-14..	263,135	50,981	39,171	....	....
1912-13..	196,642	75,783	11,486	....	....
1911-12..	295,840	69,169	22,534	....	....
1910-11..	27,676	47,192	23,424	....	....

ACRES (000'S OMITTED)

	Corn	Oats	Flax	Barley	Rye
1930-31....	....	[illegible]	7,262	1,111	1,194
1929-30....	9,645	[illegible]	5,318	[illegible]	1,291
1928-29....	8,690	[illegible]	6,939	1,321	1,364
1927-28....	8,799	1,742	6,772	782	635
1926-27....	9,057	2,218	6,226	810	416
1925-26....	10,618	[illegible]		900	501
1924-25....	9,162	[illegible]	5,906	[illegible]	355
1923-24....	8,465	[illegible]	5,255	....	404
1922-23....	7,851	2,618	1,317	....	366
1921-22....	7,344	2,105	3,892	....	242
1920-21....	8,090	2,061	3,181	....	....
1919-20....	8,184	2,301	3,622	....	....
1918-19....	8,249	3,080	3,419	....	....
1917-18....	8,715	3,200	3,229	....	....
1916-17....	8,969	2,525	3,207	....	....
1915-16....	9,928	2,565	4,001	....	....
1914-15....	10,386	2,869	4,258	....	....
1913-14....	10,260	3,087	4,307	....	....
1912-13....	9,464	2,187	4,283	....	....
1911-12....	8,456	2,102	3,745	....	....
1910-11....	7,945	1,640	3,123	....	....

Morocco—Crops

Grain crops of French Morocco, as officially reported, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Flaxseed
1930....	[illegible]	27,558	[illegible]	..
1929....	31,764	47,316	5,465	399
1928....	28,061	54,126	6,863	435
1927....	24,618	33,965	4,788	375
1926....	20,503	29,808	6,123	436
1925....	[illegible]	48,227	3,740	424
1924....	[illegible]	53,279	3,929	445
1923....	20,060	35,371	3,712	[illegible]
1922....	12,894	27,230	3,168	[illegible]
1921....	23,241	37,264	5,886	418
1920....	17,917	30,645	3,436	[illegible]
1919....	16,391	.....	.....	...
1918....	22,697	35,217	3,364	...

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Flaxseed
1930.....	[illegible]	2,979	661	..
1929.....	2,843	3,240	600	[illegible]
1928.....	2,666	2,904	599	43
1927.....	2,304	2,468	527	59
1926.....	2,657	3,155	562	[illegible]
1925.....	2,621	3,369	515	49
1924.....	2,461	3,120	462	34
1923.....	2,249	2,803	493	34
1922.....	2,068	2,547	510	[illegible]
1921.....	....	2,472	...	44

Hungary—Crops

Grain crops of Hungary (000's omitted)

	Wheat	Rye	Barley	Oats	Corn
1930..	71,493	26,810	23,920	15,040	52,320
1929..	74,985	31,423	31,352	28,292	70,631
1928..	99,211	32,587	31,671	27,529	49,592
1927..	76,933	22,365	23,684	22,513	65,347
1926..	74,616	31,361	25,548	24,840	76,412
1925..	71,674	32,525	25,431	26,532	87,971
1924..	61,568	22,103	14,712	16,713	74,123
1923..	67,705	31,274	27,271	27,458	49,247
1922..	64,730	25,148	22,170	22,653	48,725
1921..	52,715	23,177	21,408	21,964	31,703
1920..	38,294	20,564	22,685	22,307	50,153

ACRES (000'S OMITTED)

	Wheat	Rye	Barley	Oats	Corn
1930...	4,071	1,571	1,129	637	...
1929...	3,708	1,623	1,171	745	2,773
1928...	4,114	1,608	1,020	652	2,643
1927...	4,021	1,583	1,002	643	2,625
1926...	3,705	1,728	1,050	679	2,630
1925...	3,523	1,700	1,019	717	2,655
1924...	3,499	1,643	1,008	708	2,459
1923...	3,320	1,620	1,137	809	2,459
1922...	3,622	1,663	1,146	811	2,445
1921...	2,888	1,341	1,185	885	2,167
1920...	2,662	1,476	1,266	802	2,017

Roumania—Crops

Grain crops of Roumania (including Bessarabia in 1918, Bessarabia and Bukowina in 1919, and Bessarabia, Bukowina and Transylvania beginning with 1920), as reported by the Statistica Agricola A Romaniei, by calendar years, in bushels (000's omitted):

	Wheat	Corn	Barley	Oats	Rye
1930.	130,773	156,135	108,816	79,679	19,841
1929.	99,763	251,954	125,867	93,647	13,266
1928.	115,544	108,512	69,401	67,546	11,483
1927.	96,734	139,092	57,960	59,810	9,323
1926.	110,450	239,079	77,508	79,860	11,193
1925.	104,741	175,464	46,818	50,986	7,997
1924..	70,421	165,461	30,759	42,013	5,963
1923.	102,120	161,403	60,870	62,665	9,607
1922..	92,008	119,829	93,778	92,073	9,206
1921..	78,563	106,333	44,264	66,356	9,081
1920..	61,309	174,553	66,161	55,810	9,676
1919..	66,000	137,412	31,641	22,824	10,046
1918..	18,447	.....	4,993	5,890	1,694
1916..	78,520	.....	30,038	28,935	....
1915..	89,786	86,412	29,031	29,932	2,911
1914..	46,296	102,562	24,647	25,311	1,959
1913..	84,101	114,663	27,662	37,990	3,711
1912..	89,412	103,921	20,934	20,948	3,583
1911..	96,656	110,712	26,118	27,671	4,989
1910.	110,760	103,665	29,358	29,647	7,884
1909..	56,750	66,400	19,955	25,945	3,090

Flaxseed crop (000's not omitted): 1926, 243,786 bus; 1925, 316,000; 1924, 223,000; 1923, 248,000; 1922, 194,000; 1921, 119,000.

ACRES (000'S OMITTED)

	Wheat	Corn	Barley	Oats	Rye
1930...	7,630	11,114	4,930	2,716	...
1929...	6,764	11,848	5,074	2,997	773
1928...	7,923	11,010	4,322	2,759	730
1927...	7,660	10,422	4,363	2,678	695
1926...	8,219	10,026	3,832	2,665	730
1925...	8,157	9,713	4,211	[illegible]	830
1924...	7,838	8,949	4,673	3,056	671
1923...	6,648	8,413	4,642	3,324	668
1922...	6,548	8,411	4,269	3,294	660
1921...	6,149	8,510	3,879	3,062	796
1920...	5,026	7,695	3,392	2,173	777
1919...	4,241	6,761	1,942	952	748
1918...	5,684	5,728	2,120	1,084	624
1916...	4,844	5,056	1,464	1,068	200
1915...	4,705	6,207	1,371	1,065	187
1914...	5,218	5,104	1,405	1,056	208
1913...	4,011	5,305	1,390	1,290	224
1912...	5,114	5,138	1,235	943	265
1911...	4,769	5,153	1,253	992	326

Russia—Crops

Grain crops of Russia, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats
1930	1,157,400	......	......
1929	702,851	337,579	1,144,325
1928	795,235	252,151	1,135,369
1927	776,019	206,681	916,979
1926	913,807	245,712	[illegible]
1925	782,266	268,686	838,437
1924	381,711	180,913	604,233
1923	417,511	209,323	535,737
1922	212,506	116,069	355,661
1921	201,660	122,222	359,963
1920	318,197	*	*
1918-19	*	*	*
1917	605,927	*	*
1916	*	*	*
1915	819,889	429,818	898,843
1914	833,639	432,615	914,913
1913	1,027,662	600,232	1,250,590
1912	801,497	496,352	1,089,365
1911	563,485	436,569	876,013
	Corn	Flaxseed	Rye
1929	165,739	26,303	796,018
1928	130,701	22,360	752,713
1927	136,606	22,468	961,363
1926	131,489	20,471	941,285
1925	172,038	23,919	906,218
1924	90,767	16,623	735,803
1923	106,413	13,351	782,801
1922	67,462	11,025	490,016
1921	45,496	9,735	400,116
1918-20	*	*	*
1917	84,118	*	648,650
1916	*	*	*
1915	72,041	19,085	908,337
1914	90,131	18,957	869,657
1913	83,559	27,037	1,011,316
1912	94,118	21,486	1,050,537
1911	95,193	22,402	768,650

*Figures not available.

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Rye	Flaxseed
1929..	75,721	19,958	46,452	64,392	4,883
1928..	71,879	17,653	42,625	64,412	4,273
1927..	78,961	17,141	45,116	70,043	4,024
1926..	73,897	17,897	39,613	71,066	4,024
1925..	63,119	15,661	33,284	72,114	4,174
1924..	52,706	18,073	32,574	78,767	4,263
1923..	38,840	17,221	25,942	64,329	2,317
1921..	38,340	16,708	24,103	47,909	1,750
1920..	47,349	*	27,610	44,200	1,804
1918-19	*	*	*	*	*
1917..	43,714	12,135	36,803	27,673	2,754
1916..	65,423	27,170	42,268	59,236	3,868
1915..	[illegible]	29,688	42,389	63,567	3,204
1914..	83,682	33,142	47,806	71,926	4,006
1913..	82,680	33,697	48,737	75,983	4,097
1912..	78,109	30,973	46,899	74,121	3,832
1911..	80,086	30,910	48,338	73,994	3,831

*Figures not available.

Wheat Crops—Minor Countries

Wheat crops of Peru, Brazil, Malta, Syria and Lebanon and Palestine, as reported by the United States Department of Agriculture and the International Institute of Agriculture, in bushels (000's omitted):

	Peru	Brazil	Malta	Syria and Lebanon	Palestine
1930-31.	....	....	....	18,553	3,252
1929-30.	....	....	293	16,288	3,126
1928-29.	3,075	4,628	289	6,490	2,399
1927-28.	3,137	4,203	294	14,578	3,652
1926-27.	2,662	4,960	308	13,935	3,637
1925-26.	3,172	4,145	274	10,619	3,710
1924-25.	2,865	3,902	200	12,335	3,386
1923-24.	2,875	3,698	248	14,054	3,176
1922-23.	2,994	2,916	258	12,704	3,201
1921-22.	2,649	3,500	258	8,061	2,677
1920-21.	2,600	4,986	306	...	...

Poland—Crops

Grain crops of Poland, as reported by the Central Statistical Office of the Polish Republic and by the International Institute of Agriculture, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats	Rye	Flaxs'd
1930..	70,180	65,219	162,589	268,489	....
1929..	65,862	76,233	203,499	275,959	3,092
1928..	59,219	70,143	172,076	240,545	2,409
1927..	61,093	58,602	147,360	231,762	2,791
1926..	46,896	71,511	210,434	196,949	2,486
1925..	67,915	77,039	228,116	257,412	2,247
1924..	32,498	56,489	166,171	143,884	2,240
1923..	49,736	76,037	242,671	234,727	2,338
1922..	42,378	59,658	172,621	197,372	1,995
1921..	37,409	56,104	160,286	167,568	1,287
1920..	22,740	38,567	129,061	73,660	....
1919..	22,156	21,838	76,281	103,043	....

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Rye	Flaxs'd
1929...	3,526	3,109	5,413	14,322	[illegible]
1928...	3,187	2,856	5,036	13,197	282
1927...	3,360	2,761	4,896	14,244	276
1926...	3,246	2,750	4,872	14,053	271
1925...	2,703	3,026	6,369	12,118	266
1924...	2,651	3,011	6,388	10,915	[illegible]
1923...	2,514	2,964	6,215	11,477	[illegible]
1922...	2,574	2,825	5,879	11,226	251
1921...	2,093	2,451	4,753	8,866	[illegible]
1920...	1,791	1,944	4,118	7,236	...
1919...	1,063	1,315	2,440	6,544	...

Esthonia—Crops

Grain crops of Esthonia, by calendar years, as reported by the United States consul at Reval, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats	Flaxs'd
1930...	....	8,070	5,710	10,671	[illegible]
1929...	1,268	5,737	5,687	10,277	420
1928...	1,037	5,537	4,211	6,817	229
1927...	1,079	6,735	4,335	6,727	307
1926...	874	4,482	6,048	9,184	474
1925...	791	7,187	5,289	[illegible]	518
1924...	543	5,461	5,539	[illegible]	460
1923...	737	6,650	4,097	7,942	347
1922...	760	5,797	6,670	10,057	328
1921...	427	6,908	4,690	8,840	[illegible]
1920...	400	3,823	2,516	6,319	187
1919...	[illegible]	5,056	4,277	7,705	242
1916...	549	6,074	5,663	....	358

ACRES (000'S OMITTED)

	Wheat	Rye	Barley	Oats	Flaxs'd
1929......	82	366	281	371	79
1928......	70	329	263	330	83
1927......	67	367	294	359	88
1926......	59	336	300	362	83
1925......	51	382	284	371	113
1924......	44	394	307	410	80
1923......	56	402	312	378	76
1922......	52	392	331	399	69
1921......	31	353	275	353	51
1920......	31	351	273	351	50
1919......	33	327	259	335	30
1916......	36	363	297	...	68

Japan—Crops

Grain crops of Japan, as reported by the Japanese Department of Agriculture and Commerce, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Buckwheat	Corn	Oats
1930..	29,542	72,176	....	....	....
1929..	30,495	80,374	....	....	11,036
1928..	30,812	81,477	....	2,839	11,515
1927..	31,018	82,482	....	3,319	12,391
1926..	25,889	88,235	....	2,971	10,781
1925..	29,406	91,471	....	3,567	10,744
1924..	26,967	75,024	....	3,559	9,933
1923..	26,578	68,858	....	3,367	10,967
1922..	29,315	81,411	....	3,456	9,158
1921..	28,575	82,323	....	....	12,086
1920..	30,165	84,909	6,184	3,947	11,162
1919..	32,561	89,356	5,802	3,996	9,921
1918..	32,923	82,650	4,363	3,320	12,243
1917..	34,745	88,896	4,788	3,791	5,690
1916..	30,137	89,486	5,999	3,917	....
1915..	26,773	93,342	6,248	4,022	....
1914..	22,975	85,836	7,007	3,940	....
1913..	26,757	101,477	5,328	2,807	....
1912..	26,514	90,559	5,103	3,802	....
1911..	25,647	86,468	6,227	3,543	....

ACRES (000'S OMITTED)

	Wheat	Barley	Buckwheat	Corn	Oats
1930...	1,198	2,110	...	...	...
1929...	1,213	2,195	...	...	289
1928...	1,201	2,242	...	[illegible]	284
1927...	1,169	2,342	...	126	313
1926...	1,146	2,430	...	130	269
1925...	1,148	2,467	...	137	265
1924...	1,150	2,483	...	[illegible]	274
1923...	1,196	2,649	...	134	266
1922...	1,229	2,746	...	140	277
1921...	1,264	2,929	...	...	300
1920...	1,300	2,987	...	140	282
1919...	1,344	2,931	...	136	215
1918...	1,390	2,862	334	141	156
1917...	1,393	2,888	350	138	130
1916...	1,304	3,075	365	144	...
1915...	1,227	3,213	378	143	...
1914...	1,173	3,292	396	146	...
1913...	1,185	3,297	371	144	...
1912...	1,216	3,132	359	138	...
1911...	1,223	3,102	370	132	...

Rice Production

Production of cleaned rice by years in the leading rice producing countries of the world, in pounds (000,000's omitted):

Country	Average 1909-13	1926	1927	1928	1929
U. States...	660	1,159	1,244	1,201	1,117
Spain	300	435	[illegible]	395	414
Italy	646	925	[illegible]	859	910
India	64,144	66,453	63,241	71,889	69,102
Japan	15,787	17,464	19,510	18,941	18,743
Chosen	3,293	4,807	5,435	4,245	4,301
Indo-China.	7,332	6,478	6,575	6,699	....
Siam	4,255	4,207	3,626	2,575	3,519
Ceylon	409	493	476	[illegible]	....
Madagascar	896	817	1,429	....	....
Java and Madura..	7,046	7,732	8,008	7,669	7,200

Figures for China, probably the largest producer, are not available.

United Kingdom—Crops

Grain crops of Great Britain and Ireland, as reported by the Ministry of Agriculture and Fisheries, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats
1930*........	[illegible]	38,815	130,153
1929.........	50,942	57,234	223,490
1928.........	51,183	58,499	214,313
1927.........	56,952	51,054	203,829
1926.........	52,933	55,111	[illegible]
1925.........	53,669	60,082	206,808
1924.........	53,906	56,015	[illegible]
1923.........	58,461	53,164	[illegible]
1922.........	[illegible]	55,596	199,074
1921.........	73,795	54,336	200,792
1920.........	[illegible]	68,435	180,872
1919.........	[illegible]	59,523	[illegible]
1918.........	96,079	64,036	[illegible]
1917.........	66,350	59,290	[illegible]
1916.........	61,659	54,568	176,049

ACRES (000'S OMITTED)

	Wheat	Barley	Oats
1930..........	1,404*	1,250	3,784
1929..........	1,411	1,341	3,723
1928..........	1,490	1,428	3,596
1927..........	1,742	1,279	3,701
1926..........	1,680	1,560	3,763
1925..........	1,576	1,619	3,787
1924..........	1,632	1,625	4,016
1923..........	1,850	1,640	4,081
1922..........	2,073	1,691	4,357
1921..........	2,084	1,781	4,410
1920..........	1,981	2,050	[illegible]
1919..........	2,370	1,870	5,117
1918..........	2,793	1,838	[illegible]
1917..........	2,103	1,796	4,764
1916..........	2,052	1,652	4,147

ENGLAND AND WALES (000'S OMITTED)

	Bus 1930	Bus 1929	Acres 1930	Acres 1929
Wheat	39,655	47,451	1,346	1,330
Barley	31,382	46,652	1,026	1,120
Oats	93,963	107,210	1,773	1,851

SCOTLAND (000'S OMITTED)

	Bus 1930	Bus 1929	Acres 1930	Acres 1929
Wheat	2,000	2,165	53	61
Barley	4,433	4,713	108	101
Oats	45,290	52,850	867	889

IRELAND (000'S OMITTED)

	Bus 1929	Bus 1928	Acres 1929	Acres 1928
Wheat	1,326	1,601	33	36
Barley	5,969	6,116	120	131
Oats	68,100	63,966	950	956

*Not including Ireland.

Spain—Crops

Grain crops of Spain, as reported by the Direccion General de Agricultura, by calendar years, in bushels (000's omitted):

	Wheat	Corn	Oats	Rye	Barley
1930.	145,991	27,327	52,670	20,707	101,096
1929.	151,245	21,793	45,812	22,935	97,339
1928.	119,884	21,374	31,782	14,413	[illegible]
1927.	144,825	26,101	39,216	26,515	[illegible]
1926.	146,028	17,156	37,746	23,464	96,433
1925.	162,594	28,210	43,443	29,880	98,925
1924.	121,778	25,804	30,170	26,291	83,700
1923.	157,110	23,925	40,454	28,076	111,862
1922.	125,469	26,832	31,214	26,252	77,533
1921.	146,150	24,897	35,616	28,118	89,320
1920.	138,606	27,692	37,773	27,830	90,462
1919.	129,252	25,054	32,915	23,296	81,803
1918.	135,709	24,141	30,474	30,445	90,496
1917.	142,674	29,369	33,061	24,203	77,957
1916.	152,329	[illegible]	32,163	[illegible]	86,863
1915.	139,298	29,096	36,949	[illegible]	82,763
1914.	116,089	30,325	31,227	23,950	72,272
1913.	112,401	25,140	25,333	27,916	69,772
1912.	109,783	25,069	23,036	18,867	59,994
1911.	145,495	28,730	33,858	28,897	86,792

ACRES (000'S OMITTED)

	Wheat	Corn	Oats	Rye	Barley
1930..	10,530	1,072	1,765	....	....
1929..	10,622	1,006	1,839	1,518	4,488
1928..	10,479	959	1,965	1,384	4,419
1927..	10,826	1,141	1,863	1,909	4,452
1926..	10,771	1,005	1,862	1,965	4,471
1925..	10,722	1,170	1,798	1,946	4,414
1924..	10,379	1,162	1,635	1,820	4,344
1923..	10,488	1,166	1,595	1,801	4,539
1922..	10,309	1,159	1,514	1,757	4,082
1921..	10,386	1,178	1,576	1,786	4,335
1920..	10,255	1,167	1,588	1,800	4,319
1919..	10,378	1,180	1,595	1,808	4,254
1918..	10,228	1,169	1,507	1,518	4,209
1917..	10,340	1,175	1,426	1,800	4,096
1916..	10,148	1,154	1,328	1,846	3,856
1915..	10,037	1,152	1,403	1,820	3,786
1914..	9,681	1,137	1,304	1,887	3,404
1913..	9,644	1,105	1,351	1,918	3,369
1912..	9,625	1,149	1,279	1,944	3,298
1911..	9,706	1,145	1,268	1,987	3,567

Latvia—Crops

Grain crops of Latvia, as reported by the International Institute of Agriculture, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats	Rye	Flaxs'd
1930...	3,674	8,143	23,433	13,557	765
1929...	2,336	9,545	23,631	9,503	904
1928...	2,499	3,275	10,037	8,153	[illegible]
1927...	2,636	5,971	12,205	10,188	652
1926...	1,853	8,674	19,038	6,109	969
1925...	2,165	8,169	20,934	12,405	1,099
1924...	1,582	7,437	18,470	7,849	980
1923...	1,641	6,021	16,412	10,770	648
1922...	959	6,770	19,171	6,845	563
1921...	764	6,496	16,842	9,804	626
1920...	389	3,054	7,784	4,686	416

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Rye	Flaxs'd
1930.....	179	[illegible]	799	660	137
1929.....	[illegible]	[illegible]	747	599	179
1928.....	164	362	590	736	[illegible]
1927.....	145	458	754	733	156
1926.....	122	470	793	621	159
1925.....	119	436	815	659	163
1924.....	104	443	824	658	159
1923.....	106	441	764	649	139
1922.....	63	388	675	583	[illegible]
1921.....	46	362	[illegible]	562	85
1920.....	33	306	533	486	75

Lithuania—Crops

Crops of Lithuania, as reported by the International Institute of Agriculture, in bushels (000's omitted):

	Wheat	Barley	Oats	Rye	Flaxs'd
1930..	10,913	10,380	25,284	24,811	1,611
1929...	[illegible]	12,286	30,234	[illegible]	1,718
1928...	[illegible]	6,910	18,377	18,717	1,000
1927...	[illegible]	5,630	16,741	21,156	1,405
1926...	4,164	11,448	22,041	13,787	1,571
1925...	[illegible]	[illegible]	18,456	26,116	1,653
1924...	[illegible]	[illegible]	18,684	18,295	1,332
1923...	[illegible]	7,957	[illegible]	23,890	1,056
1922...	3,274	10,725	23,943	21,242	1,108
1921...	2,840	6,675	18,154	21,047	909

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Rye	Flaxs'd
1930....	526	629	855	1,184	...
1929....	488	529	865	1,113	212
1928....	393	418	712	1,161	235
1927....	296	486	755	1,240	207
1926....	295	531	942	1,108	186
1925....	277	607	853	1,339	[illegible]
1924....	210	484	803	1,329	152
1923....	202	432	816	1,142	[illegible]
1922....	194	417	769	1,369	127
1921....	...	414	766	1,248	127

Germany—Crops

Grain crops of Germany, exclusive of Alsace-Lorraine in 1916-20, and of all other ceded territory in 1919-20, as reported by the Statistisches Reichsamt, by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats
1930......	139,220	303,526	122,939	[illegible]
1929......	123,073	321,423	146,089	[illegible]
1928......	141,593	[illegible]	153,721	461,960
1927......	[illegible]	[illegible]	125,750	437,219
1926......	[illegible]	[illegible]	113,277	436,394
1925......	118,213	317,424	[illegible]	384,743
1924......	89,199	225,673	[illegible]	389,525
1923......	106,448	263,037	108,446	420,731
1922......	71,933	206,019	73,924	276,619
1921......	107,738	267,648	89,056	344,812
1920......	82,583	196,729	82,344	332,490
1919......	79,701	240,161	87,741	309,587
1918......	90,330	315,301	93,604	301,839
1917......	83,945	275,696	89,836	249,944
1916......	113,393	351,826	126,680	477,310
1915......	141,676	360,310	114,077	412,100
1914......	145,944	410,477	[illegible]	622,674
1913......	[illegible]	481,169	[illegible]	649,231
1912......	[illegible]	456,599	159,921	586,987
1911......	149,410	427,775	145,132	[illegible]
1910......	141,883	413,802	133,330	[illegible]
1909......	137,999	416,763	160,551	[illegible]

EARLIER FIVE-YEAR AVERAGES

	Wheat	Rye	Barley	Oats
1904-08...	137,357	392,010	[illegible]	534,085
1899-1903.	129,652	352,610	144,504	501,070
1894-98...	123,450	300,532	124,411	430,917
1889-93...	103,653	250,251	105,332	321,231
1884-88...	96,450	230,733	103,914	308,541
1879-83...	85,383	220,775	99,125	282,884

ACRES (000'S OMITTED)

	Wheat	Rye	Barley	Oats
1930........	4,385	11,611	[illegible]	8,493
1929........	3,955	[illegible]	3,635	8,791
1928........	4,209	11,452	3,733	8,696
1927........	4,321	11,610	3,653	8,889
1926........	3,955	11,689	3,669	[illegible]
1925........	3,835	11,636	3,545	[illegible]
1924........	3,622	10,526	3,576	[illegible]
1923........	3,653	10,790	[illegible]	[illegible]
1922........	3,394	10,216	[illegible]	[illegible]
1921........	3,561	10,539	2,808	7,514
1920........	3,413	[illegible]	2,949	[illegible]
1919........	3,209	10,881	3,121	7,294
1918........	3,547	11,720	3,251	7,510
1917........	3,751	13,630	3,734	[illegible]
1916........	[illegible]	14,737	4,125	[illegible]
1915........	[illegible]	15,543	[illegible]	[illegible]
1914........	4,333	15,564	3,909	10,843
1913........	4,578	15,549	4,097	10,067
1912........	4,758	15,499	3,028	10,911
1911........	4,878	[illegible]	3,017	[illegible]

Greece—Crops

Grain crops of Greece, including new territory since 1919, as reported by the Statistique Annuelle, by calendar years, in bushels (000's omitted):

	Wheat	Oats	Rye	Barley	Corn
1930..	10,577	5,179	[illegible]	7,747	[illegible]
1929..	8,502	3,251	[illegible]	[illegible]	[illegible]
1928..	13,095	5,246	1,741	7,249	[illegible]
1927..	12,979	4,650	[illegible]	7,271	5,110
1926..	12,354	4,366	1,597	7,572	9,117
1925..	11,178	5,474	1,564	6,357	6,796
1924..	7,634	3,034	910	4,333	6,135
1923..	13,356	5,363	1,246	7,101	8,350
1922..	9,583	6,500	2,362	7,100	7,560
1921..	11,170	4,134	2,151	6,430	7,874
1920..	11,188	3,996	1,351	7,025	9,133
1919..	9,693	2,749	1,081	6,020	7,016
1918..	13,721	4,540	1,012	7,258	6,466
1917..	11,505	3,566	696	5,796	6,112

ACRES (000'S OMITTED)

	Wheat	Oats	Rye	Barley	Corn
1929...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1928...	1,329	[illegible]	[illegible]	[illegible]	[illegible]
1927...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1926...	1,393	275	[illegible]	[illegible]	[illegible]
1925...	1,149	[illegible]	107	436	697
1924...	1,153	[illegible]	[illegible]	[illegible]	603
1923...	1,071	188	56	499	467
1922...	890	...	128	467	...
1921...	988	180	222	270	434
1920...	1,399	273	131	591	619
1919...	936	...	...	300	393
1918...	1,092	101	70	414	419
1917...	1,046	166	66	350	[illegible]

Luxemburg—Crops

Grain crops of Luxemburg, by calendar years, in bushels (000's omitted):

	Wheat	Rye	Barley	Oats
1930......	658	416	179	[illegible]
1929......	[illegible]	[illegible]	431	3,617
1928......	713	352	199	[illegible]
1927......	702	354	174	2,763
1926......	619	353	195	3,254
1925......	553	369	175	2,545
1924......	312	304	174	2,162
1923......	301	352	201	[illegible]
1922......	173	250	177	1,527
1921......	621	441	[illegible]	1,243

Belgium—Crops

Grain crops of Belgium, as reported by the Ministry of Agriculture and Public Works, by calendar years, in bushels (000's omitted):

	Wheat	Rye	Oats	Barley	Flaxs'd
1930..	13,558	[illegible]	[illegible]	[illegible]	245
1929..	13,225	[illegible]	51,487	[illegible]	708
1928..	17,215	23,154	48,524	[illegible]	492
1927..	16,277	21,854	46,102	3,341	406
1926..	[illegible]	20,073	50,807	4,208	464
1925..	14,447	21,705	40,002	4,165	487
1924..	[illegible]	20,671	44,206	3,735	464
1923..	13,376	20,787	[illegible]	4,182	413
1922..	10,615	[illegible]	[illegible]	3,438	356
1921..	[illegible]	[illegible]	[illegible]	[illegible]	328
1920..	[illegible]	18,169	[illegible]	[illegible]	...
1919..	10,565	14,505	[illegible]	3,449	...
1918..	6,189	5,132	[illegible]	*3,500	...
1917..	8,252	5,008	*30,000	*3,500	...
1916..	*8,000	*6,000	*30,000	*3,500	...
1915..	[illegible]	18,000	[illegible]	[illegible]	...
1914..	[illegible]	23,137	[illegible]	[illegible]	...
1913..	[illegible]	22,463	[illegible]	[illegible]	387
1912..	[illegible]	21,312	[illegible]	[illegible]	...
1911..	15,745	24,360	43,249	4,445	...

ACRES (000'S OMITTED)

	Wheat	Rye	Oats	Barley	Flaxs'd
1929.....	356	667	744	63	68
1928.....	408	672	667	77	69
1927.....	391	673	757	79	62
1926.....	354	558	668	87	58
1925.....	365	571	654	79	58
1924.....	340	560	654	78	54
1923.....	345	573	654	85	46
1922.....	300	531	717	80	41
1921.....	343	559	603	96	37
1920.....	306	523	586	91	...
1919.....	342	523	561	78	...
1914.....	400	645	686	84	...
1913.....	394	641	671	84	...
1912.....	397	650	648	84	...
1911.....	399	648	639	83	...

*Conjectural.

South Africa—Crops

Grain crops of the Union of South Africa, as reported by the Quarterly Abstract of Union Statistics, by crop years, in bushels (000's omitted):

	Wheat	Corn	Oats	Barley
1930-31.	11,450	82,397	7,739	1,161
1929-30.	11,140	66,271	10,289	2,097
1928-29.	6,693	68,523	7,844	1,375
1927-28.	5,675	66,582	5,952	808
1926-27.	8,012	68,463	6,129	1,076
1925-26.	9,174	38,932	5,493	1,118
1924-25.	5,667	86,293	7,480	1,027
1923-24.	7,144	39,285	6,606	1,046
1922-23.	5,973	70,584	5,728	....
1921-22.	6,069	35,195	5,186	1,282
1920-21.	8,419	47,669	5,976	1,085
1919-20.	7,323	44,808	7,519	1,720
1918-19.	8,338	41,291	9,520	1,623
1917-18.	10,160	45,113	10,775	2,064
1916-17.	4,790	36,516	6,928	1,000
1915-16.	4,857	25,000	9,661	1,300
1914-15.	7,076	36,607	*9,000	1,359
1913-14.	6,034	*30,000	*9,000	1,360
1912-13.	*6,000	*30,000	*9,000	*1,300
1911-12.	6,034	30,830	9,661	1,274

*Estimates based on the 1911 census.

ACRES (000'S OMITTED)

	Wheat	Corn	Oats	Barley
1929-30...	938	6,565	638	75
1928-29...	954	5,368	623	[illegible]
1927-28...	774	4,733	675	[illegible]
1926-27...	860	5,189	580	85
1925-26...	968	4,032	636	83
1924-25...	741	5,330	636	83
1923-24...	741	3,693	627	92
1922-23...	...	4,608	697	...
1921-22...	875	....	635	[illegible]
1920-21...	823	3,815	609	97
1919-20...	800	3,122	558	99
1918-19...	953	2,950	...	55
1917-18...	925	3,300	257	58
1916-17...	755	3,160	250	57

India—Crops

Grain crops of British India, as reported by the Department of Statistics of India, by crop years, in bushels (000's omitted):

	Wheat	Barley	Corn	Flaxs'd
1930-31......	386,512	.....	.....	13,920
1929-30......	317,595	117,720	.....	12,880
1928-29......	290,864	97,869	78,304	14,960
1927-28......	334,992	119,229	90,083	16,240
1926-27......	324,651	120,771	76,627	16,080
1925-26......	330,997	123,387	67,560	20,004
1924-25......	360,640	137,060	87,120	21,640
1923-24......	372,363	137,060	76,008	18,480
1922-23......	366,987	145,460	98,320	21,320
1921-22......	250,357	145,973	76,680	17,443
1920-21......	377,888	117,087	78,840	10,800
1919-20......	280,261	149,380	98,840	16,760
1918-19......	370,421	129,827	71,288	9,400
1917-18......	382,140	155,307	96,600	20,600
1916-17......	323,045	155,447	93,760	20,800
1915-16......	376,993	147,653	100,080	19,040
1914-15......	312,367	142,847	83,280	15,880
1913-14......	367,845	125,113	83,360	15,448
1912-13......	370,515	40,973	88,440	21,684
1911-12......	375,629	45,500	76,760	25,796
1910-11......	359,533	.....	.....	22,852

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Flaxs'd
1930-31.......	31,347	....	....	2,177
1929-30.......	31,905	7,529	....	2,601
1928-29.......	32,128	7,892	6,793	3,109
1927-28.......	31,303	8,293	6,017	3,311
1926-27.......	30,471	7,625	5,519	3,348
1925-26.......	30,470	6,898	5,437	3,596
1924-25.......	31,774	7,126	5,824	3,695
1923-24.......	31,181	7,126	5,910	3,724
1922-23.......	30,835	7,350	6,290	3,382
1921-22.......	28,234	7,303	....	3,011
1920-21.......	25,783	6,203	6,164	2,268
1919-20.......	29,049	7,519	6,620	2,245
1918-19.......	23,798	6,394	5,994	1,989
1917-18.......	35,487	8,407	6,442	3,797
1916-17.......	32,940	7,883	6,518	3,504
1915-16.......	30,320	7,024	6,679	3,384
1914-15.......	32,476	7,821	6,144	3,325
1913-14.......	28,475	7,144	6,146	3,031
1912-13.......	30,043	7,295	6,225	4,125
1911-12.......	31,141	8,378	5,567	5,038
1910-11.......	30,565	7,840	6,312	3,742

Sweden—Crops

Grain crops of Sweden, as reported by Statistiska Centralbyran, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Oats	Rye
1930....	22,046	9,967	72,132	17,479
1929....	19,031	11,485	88,238	16,282
1928....	19,156	9,743	83,191	17,152
1927....	15,535	9,106	75,404	15,144
1926....	12,106	14,994	87,731	23,064
1925....	13,359	14,703	84,396	26,616
1924....	6,800	13,303	74,392	10,883
1923....	11,005	11,429	72,493	24,399
1922....	9,381	13,503	77,154	22,678
1921....	12,335	12,326	75,070	26,568
1920....	10,322	11,012	69,914	23,070
1919....	9,509	12,891	76,591	23,073
1918....	8,888	11,552	66,084	19,292
1917....	6,929	11,369	61,400	13,904
1916....	9,038	13,699	85,320	21,334
1915....	9,660	13,780	86,299	23,652
1914....	8,906	12,172	55,498	26,776

ACRES (000'S OMITTED)

	Wheat	Barley	Oats	Rye
1930......	632	...	1,744	569
1929......	574	306	1,744	631
1928......	562	313	1,716	682
1927......	[illegible]	313	1,722	783
1926......	[illegible]	444	1,826	838
1925......	[illegible]	411	1,804	870
1924......	[illegible]	428	1,911	654
1923......	362	382	1,776	869
1922......	356	427	1,798	872
1921......	360	400	1,751	914
1920......	[illegible]	402	1,752	914
1919......	[illegible]	412	1,760	919
1918......	[illegible]	457	1,812	948
1917......	[illegible]	436	1,932	818
1916......	[illegible]	412	1,936	912
1915......	315	420	1,984	958
1914......	288	421	1,947	968

Denmark—Crops

Grain crops of Denmark, as reported by the Statistisk Aarborg, by calendar years, in bushels (000's omitted):

	Wheat	Oats	Barley	Rye
1930....	10,665	71,236	49,741	10,236
1929....	11,768	71,276	51,093	10,629
1928....	12,214	72,960	50,541	9,683
1927....	9,408	60,863	36,082	10,364
1926....	8,733	60,426	33,467	12,460
1925....	9,748	65,827	36,574	13,745
1924*...	5,864	63,208	34,219	10,433
1923*...	8,858	63,104	32,457	15,157
1922*...	9,249	58,403	30,433	14,284
1921*...	11,145	52,158	27,548	12,304
1920*...	7,380	50,794	24,707	13,242
1919....	5,923	47,585	24,600	14,909
1918....	6,330	41,571	21,465	12,726
1917....	4,296	37,653	17,881	8,870
1916....	6,040	42,286	22,317	10,569
1915....	7,978	42,859	25,890	13,001
1914....	5,786	38,653	20,780	10,905
1913....	6,692	46,755	24,997	16,637
1912....	5,045	44,868	23,539	16,083
1911....	5,676	43,094	21,584	17,275
1910....	4,547	40,696	21,793	19,564

*Including South Jutland.

ACRES (000'S OMITTED)

	Wheat	Oats	Barley	Rye
1929......	257	967	908	376
1928......	253	1,099	877	361
1927......	274	1,011	823	463
1926......	251	1,862	770	515
1925......	198	1,100	744	530
1924......	149	1,141	745	466
1923......	205	1,122	690	574
1922......	237	1,118	666	547
1921......	220	1,112	628	559
1920......	180	1,091	626	560
1919......	125	961	569	559
1918......	140	937	548	542
1917......	131	981	592	436
1916......	152	1,042	633	481
1915......	164	1,024	644	521
1914......	134	1,069	597	476
1913......	134	1,059	597	607
1912......	115	1,059	597	591
1911......	127	996	578	610

Czechoslovakia—Crops

Grain crops of Czechoslovakia, as reported beginning with 1919 by the Ministry of Agriculture, and of Bohemia, Moravia and Silesia, from 1914 to 1918, inclusive, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1930..	53,094	56,475	8,149	85,248	68,028
1929..	52,902	64,073	9,113	102,927	72,185
1928..	51,499	61,396	8,763	98,065	70,046
1927..	40,385	59,014	11,754	100,422	49,296
1926..	33,997	52,581	10,434	95,212	45,829
1925..	39,309	57,206	12,043	89,862	58,097
1924..	32,238	44,583	10,239	82,959	44,735
1923..	36,226	54,981	10,621	91,684	53,338
1922..	33,621	46,352	9,884	71,652	51,097
1921..	38,682	47,471	10,501	74,087	53,735
1920..	26,262	37,244	9,648	59,659	33,681
1919..	15,369	20,648	448	43,951	32,734
1918..	11,549	14,986	...	32,969	25,632
1917..	10,972	13,765	...	21,509	22,869
1916..	14,363	26,010	...	50,265	27,809
1915..	17,262	22,464	...	35,997	32,309
1914..	23,541	47,500	...	95,287	51,629

Flaxseed crop (000's not omitted): 1929, 322,669 bus; 1928, 350,874; 1926, 330,049; 1925, 492,000; 1924, 356,000; 1923, 362,000; 1922, 312,000; 1921, 300,000.

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats	Rye
1930...	2,112	1,830	325	2,140	2,676
1929...	2,023	1,839	335	2,160	2,690
1928...	1,871	1,775	355	2,069	2,487
1927...	1,847	1,745	344	2,069	2,054
1926...	1,540	1,750	387	2,082	2,054
1925...	1,526	1,718	397	2,071	2,093
1924...	1,497	1,676	389	2,090	2,070
1923...	1,507	1,697	398	2,081	2,123
1922...	1,675	1,667	395	2,016	2,174
1921...	1,557	1,613	363	1,963	2,181
1920...	1,666	1,710	369	1,972	2,271
1919...	842	899	...	1,376	1,824
1918...	898	947	...	1,429	1,922
1917...	897	1,058	...	1,512	1,925
1916...	902	1,077	...	1,609	1,960
1915...	909	1,154	...	1,737	2,034
1914...	895	1,287	...	1,876	2,004

Uruguay—Crops

Grain crops of Uruguay, as reported by the Anuario de Estadistica Agricola, by crop years, in bushels (000's omitted):

	Wheat	Corn	Oats	Barley	Flaxseed
1929-30...	13,402	2,079	3,410	173	2,853
1928-29...	14,672	2,966	3,967	159	2,280
1927-28...	15,397	7,837	3,293	116	1,951
1926-27...	10,234	3,338	1,427	70	1,960
1925-26...	10,024	5,340	2,440	107	2,025
1924-25...	9,909	4,600	3,168	103	1,542
1923-24...	13,344	4,600	2,156	79	1,178
1922-23...	6,153	6,499	999	28	719
1921-22...	9,944	....	2,069	63	519
1920-21...	7,748	4,722	1,989	169	1,056
1919-20...	5,948	2,784	1,479	76	932
1918-19...	6,890	6,574	1,288	72	498
1917-18...	12,860	7,626	3,697	108	333
1916-17...	[illegible]	6,815	1,926	110	122
1915-16...	[illegible]	4,604	2,283	115	391
1914-15...	[illegible]	11,382	933	40	588
1913-14...	6,887	7,142	1,850	165	963
1912-13...	6,461	5,243	872	38	1,302
1911-12...	8,757	7,962	1,826	84	879

ACRES (000'S OMITTED)

	Wheat	Corn	Oats	Barley	Flaxseed
1929-30....	1,106	437	151	12	266
1928-29....	1,255	525	155	9	203
1927-28....	1,151	572	138	[illegible]	177
1926-27....	987	494	102	7	175
1925-26....	954	408	149	[illegible]	185
1924-25....	850	460	138	8	146
1923-24....	1,055	460	120	5	102
1922-23......	663	569	87	[illegible]	84
1921-22......	812	...	107	3	61
1920-21......	700	494	76	11	81
1919-20......	680	...	81	5	83
1918-19......	840	496	85	5	51
1917-18......	976	590	165	6	36
1916-17......	780	627	142	13	36
1915-16......	950	697	105	10	[illegible]
1914-15......	783	787	[illegible]	5	101
1913-14......	911	692	97	[illegible]	128
1912-13......	816	629	50	3	141
1911-12......	799	691	86	6	143

Algeria—Crops

Grain crops of Algeria, as reported by the Statistique Générale de l'Algérie, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats
1930....	30,644	37,663	215	13,603
1929....	33,150	40,081	269	14,785
1928....	30,302	39,716	261	14,492
1927....	28,323	34,564	241	10,607
1926....	23,459	23,037	221	8,706
1925....	32,597	35,894	288	15,793
1924....	17,156	18,706	241	9,138
1923....	36,168	44,527	304	19,724
1922....	22,676	20,912	215	7,799
1921....	34,906	47,996	354	10,148
1920....	8,433	9,426	253	6,856
1919....	25,559	33,667	236	13,657
1918....	49,774	60,742	...	22,914
1917....	23,151	28,529	302	16,125
1916....	29,151	36,969	...	13,140
1915....	34,654	39,866	...	15,082
1914....	33,241	39,041	465	14,779
1913....	37,661	52,899	955	17,009
1912....	27,172	32,887	374	12,351

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats
1930.....	3,620	3,568	..	642
1929.....	3,795	3,482	23	639
1928.....	3,656	3,411	23	601
1927.....	3,467	3,358	23	626
1926.....	3,739	3,541	27	621
1925.....	3,608	3,376	[illegible]	636
1924.....	3,492	3,168	24	622
1923.....	3,118	2,876	20	617
1922.....	3,739	2,913	19	563
1921.....	2,816	2,514	24	574
1920.....	3,096	2,444	22	576
1919.....	2,800	2,639	15	533
1918.....	3,186	2,794	..	588
1917.....	3,222	2,839	20	682
1916.....	3,272	3,009	..	536
1915.....	3,209	2,703	..	590
1914.....	3,633	3,327	32	533
1913.....	3,580	3,386	33	525
1912.....	3,614	3,430	31	476

Egypt—Crops

Grain crops of Egypt, as reported by the Egyptian Ministry of Finance, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn
1930..............	41,100	10,596	.....
1929..............	45,228	12,669	.....
1928..............	37,296	10,798	78,201
1927..............	44,347	11,961	81,773
1926..............	37,062	10,112	80,447
1925..............	36,247	11,144	76,946
1924..............	34,186	10,754	67,572
1923..............	40,654	11,989	65,449
1922..............	36,648	11,306	66,460
1921..............	37,012	12,173	67,166
1920..............	31,710	10,449	71,939
1919..............	30,137	10,283	63,980
1918..............	32,765	10,083	66,756
1917..............	30,414	13,863	65,198
1916..............	37,263	13,417	65,485
1915..............	39,905	14,013	73,956
1914..............	33,488	11,294	73,192
1913..............	38,503	12,147	60,018
1912..............	31,335	11,631	65,294
1911..............	36,087	12,015	61,558

ACRES (000'S OMITTED)

	Wheat	Barley	Corn
1929..............	1,614	401	...
1928..............	1,589	366	2,131
1927..............	1,653	375	2,213
1926..............	1,532	333	2,171
1925..............	1,380	366	2,076
1924..............	1,416	372	1,878
1923..............	1,537	400	1,865
1922..............	1,518	375	2,035
1921..............	1,468	394	2,086
1920..............	1,190	398	1,938
1919..............	1,323	357	1,792
1918..............	1,286	336	1,812
1917..............	1,117	497	1,685
1916..............	1,447	439	1,740
1915..............	1,692	463	1,844
1914..............	1,201	398	1,889
1913..............	1,355	383	1,761
1912..............	1,332	378	1,692
1911..............	1,286	384	1,672

Norway—Crops

Grain crops of Norway, as reported by Landbruksdirektoren, by calendar years, in bushels (000's omitted):

	Wheat	Oats	Barley	Rye
1930.....	772	14,054	5,039	567
1929.....	750	12,455	4,533	531
1928.....	793	12,680	5,133	497
1927.....	676	12,665	4,672	695
1926.....	584	13,352	5,133	644
1925.....	490	22,048	5,180	566
1924.....	493	10,641	4,692	637
1923.....	587	7,999	3,282	742
1922.....	643	13,380	4,483	862
1921.....	972	12,962	4,279	1,043
1920.....	999	15,078	5,382	970
1919.....	1,071	16,106	5,787	1,061
1918.....	1,090	14,229	5,344	1,012
1917.....	432	14,591	3,822	1,169
1916.....	317	13,502	3,415	941
1915.....	285	10,318	2,682	825
1914.....	269	8,002	2,463	1,046
1913.....	325	11,734	3,203	973
1912.....	332	11,607	3,086	1,042
1911.....	271	8,746	2,550	948
1910.....	294	10,488	2,300	886
1909.....	304	.....	.....	...

ACRES (000'S OMITTED)

	Wheat	Oats	Barley	Rye
1929.......	30	239	132	[illegible]
1928.......	28	246	149	19
1927.......	25	240	146	[illegible]
1926.......	22	241	143	21
1925.......	22	241	139	[illegible]
1924.......	21	230	136	25
1923.......	26	256	123	27
1922.......	26	301	132	30
1921.......	41	342	156	36
1920.......	40	342	156	[illegible]
1919.......	41	345	157	37
1918.......	41	343	156	37
1917.......	20	356	116	[illegible]
1916.......	14	307	97	48
1915.......	12	270	89	[illegible]
1914.......	12	270	89	37
1913.......	12	270	89	37
1912.......	12	263	89	37
1911.......	12	263	88	[illegible]

Chosen—Crops

Grain crops of Chosen, as reported by the Japanese Department of Agriculture and Commerce, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Buckwheat
1930..	8,878	39,847	....	....	....
1929..	8,320	37,612	3,231	4,367	....
1928..	8,695	34,157	3,190	4,051	....
1927..	9,043	35,312	2,849	4,184	....
1926..	10,201	36,634	2,826	4,303	....
1925..	10,468	40,363	2,852	[illegible]	....
1924..	10,289	40,354	2,375	[illegible]	....
1923...	8,599	30,872	2,801	5,000	
1922...	9,922	34,910	3,079	5,136	3,051
1921..	10,705	38,984	3,106	5,336	3,093
1919...	8,553	37,217	2,002	2,432	1,900
1918...	9,897	39,560	3,145	4,730	2,355
1917...	6,540	27,419	2,308	2,643	....
1916...	6,387	25,653	2,344	2,874	....
1915...	6,146	27,814	2,020	2,679	....
1914...	5,848	24,832	2,032	2,295	....
1913...	6,506	28,093	2,012	2,341	....
1912...	5,677	22,991	1,802	[illegible]	....
1911...	4,967	21,412	1,603	[illegible]	....

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats	Buckwheat
1929....	871	2,294	260	270	...
1928....	896	2,209	265	265	...
1927....	897	2,189	261	272	...
1926....	899	2,184	246	[illegible]	...
1925....	887	2,164	241	[illegible]	...
1924....	844	2,124	229	280	...
1923....	873	2,170	232	270	...
1922....	890	2,130	...	272	...
1921....	...	2,108	225	272	245
1920....	...	...	223	230	242
1919....	850	1,967	219	236	[illegible]
1918....	844	1,938	206	236	235
1917....	560	1,409	173	171	...
1916....	520	1,314	162	170	...
1915....	499	1,261	148	155	...
1914....	474	1,183	144	129	...
1913....	466	1,118	133	125	...
1912....	410	1,015	133	101	...
1911....	377	926	139	111	...

Chile—Crops

Grain crops of Chile, as reported by the Anuario Estadistico Agricultura, by crop years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1929-30...	37,037	7,073	3,149	10,403	143
1928-29...	29,679	6,116	2,796	3,149	146
1927-28...	28,307	6,775	1,814	6,405	159
1926-27...	23,286	4,530	1,675	4,886	51
1925-26...	26,630	6,914	1,405	5,555	73
1924-25...	24,470	5,094	1,069	4,280	[illegible]
1923-24...	28,090	6,263	1,392	3,961	45
1922-23...	25,937	7,577	1,677	[illegible]	63
1921-22...	23,636	4,556	....	[illegible]	[illegible]
1920-21...	23,190	5,035	1,686	3,155	74
1919-20...	19,916	3,691	1,446	2,590	53
1918-19...	21,691	3,977	1,702	3,250	192
1917-18...	23,120	3,303	1,446	3,177	176
1916-17...	22,498	4,840	1,338	5,564	93
1915-16...	20,184	4,358	1,540	6,350	117
1914-15...	19,000	3,827	1,842	7,104	185
1913-14...	16,403	5,567	1,605	4,437	161
1912-13...	23,575	4,596	1,647	4,443	147
1911-12...	22,468	3,251	1,527	3,330	133

ACRES (000'S OMITTED)

	Wheat	Barley	Corn	Oats	Rye
1930-31.....	1,646	182	112	193	7
1929-30.....	1,758	195	114	243	[illegible]
1928-29.....	1,715	194	114	220	[illegible]
1927-28.....	1,529	168	72	137	[illegible]
1926-27.....	1,483	155	73	135	[illegible]
1925-26.....	1,445	197	57	143	[illegible]
1924-25.....	1,429	162	42	132	[illegible]
1923-24.....	1,379	145	68	79	[illegible]
1922-23.....	1,473	153	70	81	[illegible]
1921-22.....	1,314	128	63	70	[illegible]
1920-21.....	1,258	126	[illegible]	58	[illegible]
1919-20.....	1,196	126	62	60	[illegible]
1918-19.....	1,313	98	65	64	[illegible]
1917-18.....	1,302	98	65	79	[illegible]
1916-17.....	1,272	117	49	126	[illegible]
1915-16.....	1,143	121	66	161	[illegible]
1914-15.....	1,074	147	80	154	[illegible]
1913-14.....	1,018	153	59	123	[illegible]

MOVEMENT OF GRAIN, FLOUR AND FEEDINGSTUFFS IN THE U. S.

A Section Devoted to Statistics Dealing With the Receipt and Shipment of Grain and Its Products at the More Important Distributing Centers of the United States

MINNEAPOLIS—GRAIN, FLOUR AND FEED MOVEMENT

Receipts and shipments of grain, flour and millfeed at Minneapolis, by calendar years (000's omitted):

RECEIPTS

	Flour, bbls	Millfeed, tons	Wheat	Corn	Oats	Barley	Rye	Flaxseed	Totals, grain
			Bushels						
1930.....	222	37	92,833	13,329	17,899	20,162	10,088	8,765	163,076
1929.....	277	53	101,602	12,610	25,042	20,206	7,620	9,013	176,093
1928.....	236	52	126,793	11,941	22,478	28,450	6,713	12,706	209,088
1927.....	333	66	112,886	11,434	21,836	17,406	4,889	12,209	181,049
1926.....	331	36	95,344	9,711	23,199	14,932	4,606	9,460	157,251
1925.....	776	27	108,689	14,025	42,724	24,319	7,600	13,168	210,525
1924.....	963	27	108,774	13,994	48,962	20,237	9,384	12,066	213,418
1923.....	1,404	119	121,655	12,233	27,936	16,444	12,066	10,643	200,877
1922.....	1,110	95	124,173	14,640	28,960	13,169	10,439	5,189	196,462
1921.....	1,184	63	122,165	12,390	30,861	13,307	5,367	5,628	189,708
1920.....	908	94	112,366	8,981	22,208	16,020	7,165	6,623	173,363
1919.....	1,200	134	110,724	8,792	24,928	33,637	13,047	6,898	198,026
1918.....	760	76	111,886	16,527	44,065	32,716	13,234	6,291	224,717
1917.....	888	70	101,021	8,065	29,382	27,791	9,213	6,026	181,498
1916.....	900	79	130,405	7,536	42,526	37,588	7,297	8,892	234,244
1915.....	767	77	142,669	10,777	33,545	36,594	6,237	6,149	235,972
1914.....	816	78	115,390	12,260	22,215	28,304	6,008	7,769	191,936
1913.....	770	65	111,268	8,189	24,662	35,679	5,652	11,320	196,570
1912.....	587	60	113,636	6,775	16,805	24,600	4,916	9,635	174,366
1911.....	396	38	97,144	7,498	11,439	21,664	2,373	6,507	146,625
1910.....	318	39	99,722	9,744	19,540	21,972	1,847	7,760	160,575
1909.....	269	33	81,111	5,083	14,069	20,236	2,237	7,600	130,326
1908.....	242	32	91,740	4,777	16,717	18,428	1,932	12,597	146,191
1907.....	240	26	86,031	6,152	19,765	20,024	1,940	10,387	144,299
1906.....	246	31	80,695	3,940	23,294	10,642	1,626	10,209	130,405
1905.....	317	27	93,264	3,968	25,126	14,423	1,590	8,209	146,580
1904.....	362	25	86,936	4,270	25,848	11,600	1,902	8,513	139,069
1903.....	292	17	86,804	3,313	22,384	11,233	1,591	9,392	134,717
1902.....	246	15	88,762	3,235	12,066	7,784	1,042	8,166	121,055
1901.....	241	14	90,839	7,868	10,719	4,999	1,202	7,070	122,697
1900.....	223	10	83,312	6,502	10,837	4,562	510	5,093	110,806
1899.....	197	10	87,962	7,277	11,014	2,553	658	4,207	113,671
1898.....	157	8	77,160	4,586	10,478	1,790	1,141	2,899	98,054
1897.....	144	6	72,802	4,004	16,264	2,684	1,061	3,042	99,867
1896.....	140	5	69,569	1,538	10,603	2,150	693	1,499	86,052
1895.....	136	4	65,436	1,104	5,481	866	376	1,784	75,047
1894.....	160	3	55,001	4,090	4,124	660	231	641	64,647
1893.....	282	3	57,890	3,376	3,553	2,063	211	990	68,083
1892.....	164	4	72,728	2,631	5,116	2,358	207	1,145	84,185
1891.....	77	3	57,812	2,779	4,303	1,019	262	1,257	67,432

SHIPMENTS

	Flour, bbls	Millfeed, tons	Wheat	Corn	Oats	Barley	Rye	Flaxseed	Totals, grain
			Bushels						
1930....	11,407	649	42,056	9,540	19,439	15,007	4,156	3,099	93,326
1929....	11,421	698	46,050	8,177	16,602	13,208	5,780	3,347	93,163
1928....	12,596	774	55,307	9,044	26,208	22,682	4,181	4,578	135,370
1927....	12,196	718	48,745	6,822	28,360	16,872	6,272	2,651	121,636
1926....	12,439	631	39,530	6,333	28,171	11,941	2,028	2,307	90,312
1925....	12,717	650	53,083	11,726	43,521	19,286	2,929	3,013	133,558
1924....	12,886	697	55,131	10,665	28,656	18,076	13,272	3,729	129,528
1923....	15,459	678	48,371	8,070	33,835	13,765	6,656	1,584	111,281
1922....	17,444	670	44,562	10,794	38,414	12,746	6,928	1,284	114,730
1921....	16,493	642	50,493	8,554	16,693	12,658	3,189	1,362	92,949
1920....	16,888	672	46,289	6,526	18,190	16,020	12,429	625	100,079
1919....	19,611	823	41,287	5,277	21,745	30,596	8,104	1,258	108,267
1918....	19,098	667	19,571	9,928	46,091	23,243	5,632	1,002	104,467
1917....	17,965	760	33,396	6,790	37,360	23,912	4,082	1,172	107,422
1916....	19,177	707	40,062	5,260	40,089	32,699	5,727	1,164	125,001
1915....	19,064	665	54,043	9,466	33,467	34,656	4,325	933	137,380
1914....	18,783	648	32,954	9,715	22,212	27,180	4,139	569	96,769
1913....	18,541	602	31,649	6,176	19,703	32,421	3,957	1,875	95,681
1912....	16,991	659	29,694	3,510	15,575	21,603	2,917	2,209	75,508
1911....	15,680	611	23,385	4,236	10,141	18,029	943	1,089	57,823
1910....	15,448	512	19,207	6,744	14,279	18,407	1,146	1,446	61,229
1909....	14,166	460	21,699	3,125	15,324	18,000	1,242	1,802	61,192
1908....	14,083	414	19,294	1,967	16,837	18,163	1,279	2,610	60,150
1907....	14,898	369	20,344	3,810	19,836	16,622	1,753	5,003	67,368
1906....	16,206	387	20,333	2,365	23,925	10,697	1,436	6,167	64,923
1905....	14,130	462	23,153	595	11,334	7,940	940	2,343	46,305
1904....	16,227	384	18,177	730	10,908	7,642	1,149	3,559	42,065
1903....	16,818	400	15,609	943	11,116	7,196	947	2,676	38,487
1902....	16,995	469	11,770	1,321	4,705	4,912	734	2,840	26,282
1901....	14,955	517	11,470	2,040	3,239	2,636	708	2,014	22,107
1900....	13,958	469	10,937	1,304	3,932	3,831	506	4,006	24,516
1899....	14,263	429	14,763	4,795	5,493	1,425	623	1,557	28,656
1898....	13,391	474	15,186	1,147	3,442	917	1,164	1,663	23,519
1897....	12,757	410	12,175	703	4,470	1,668	767	1,167	20,950
1896....	10,974	338	9,350	509	7,918	765	657	985	20,084
1895....	9,026	309	12,942	213	3,116	285	208	936	17,750
1894....	8,951	293	7,120	2,668	1,672	498	118	400	12,476
1893....	9,369	306	14,948	1,598	2,178	1,581	138	389	20,832
1892....	7,562	274	21,161	1,237	2,987	1,649	190	969	28,193
1891....	6,694	250	20,084	865	2,289	553	238	487	24,516

MINNEAPOLIS—CAR-LOT CALENDAR YEAR SHIPMENTS

Table prepared by H. H. Thomas, of the Soo road, showing car loadings of flour and millfeed by Minneapolis mills for the calendar year ended Dec. 31, 1930, with comparisons:

	C., B. & Q.	C., M. & St. P.	Omaha	Great West	Rock Island	Great North.	M. & St. L.	M., N. & S.	North. Pac.	Soo	Totals
Atkinson Milling Co.	196	921	624	209	48	67	123	..	86	125	2,399
Everett, Aughenbaugh & Co.	76	131	179	236	109	17	151	..	3	72	974
King Midas Mill Co.	42	330	523	26	10	..	94	1	12	300	1,338
Mpls. Milling Co....	465	1,202	1,249	131	314	98	111	2	54	1,421	5,080
N. W. Cons. Mlg. Co.	458	875	1,274	176	409	184	472	2	400	1,810	6,060
Pillsbury F. M. Co..	1,451	3,356	4,394	[illegible]	2,326	2,064	1,797	1	449	3,315	[illegible]
Russell-Miller M. Co.	256	385	663	1,221	483	66	215	1	68	359	3,777
Minn. Linseed Oil...	20	66	88	14	17	22	15	1	6	30	279
Washb'n Crosby Co.	1,990	2,254	3,531	1,463	1,019	1,070	1,806	16	1,111	2,212	16,572
Misc. feed mills....	756	2,199	3,175	761	565	622	650	99	579	1,362	10,968
Archer Daniels Mid.	182	299	399	296	243	55	154	1	50	74	1,793
Spencer-Kellogg	109	201	215	218	183	40	97	..	13	23	1,099
Totals, 1930 ...	6,031	12,219	16,264	7,065	5,726	4,545	5,788	121	2,561	11,163	71,786
Totals, 1929	6,507	13,004	15,390	7,749	6,624	5,131	7,043	151	3,120	11,132	75,851
Totals, 1928	7,157	14,727	17,647	8,809	7,219	5,046	9,657	58	3,131	12,053	85,504
Totals, 1927	7,048	12,805	15,374	7,060	5,726	6,556	9,359	45	2,967	10,930	77,897
Totals, 1926	8,778	12,114	13,529	7,757	4,681	4,819	9,441	70	2,596	10,408	76,250
Totals, 1925	9,100	12,792	14,742	6,992	6,589	4,511	4,864	20	3,124	14,829	77,585
Totals, 1924	8,734	11,639	14,024	6,615	6,773	5,429	3,436	64	3,365	13,359	73,439
Totals, 1923	9,939	14,531	15,046	6,479	4,991	8,017	2,069	120	4,446	13,946	79,584
Totals, 1922	10,881	15,135	14,019	6,170	6,660	10,216	6,081	303	5,242	16,923	88,635
Totals, 1921	10,869	11,344	16,447	6,458	5,674	11,484	5,157	405	5,713	12,058	85,599
Totals, 1920	8,570	11,561	14,842	4,799	4,008	6,195	5,165	...	4,503	9,614	69,277
Totals, 1919	8,808	13,173	21,949	7,675	5,718	6,359	5,953	...	3,481	13,892	87,369
Totals, 1918	8,628	9,858	12,914	4,978	2,856	9,882	3,052	...	2,900	6,928	61,999
Totals, 1917	8,690	15,949	11,863	4,424	8,567	10,046	3,080	...	4,841	12,198	78,058

CHICAGO—GRAIN AND FLOUR MOVEMENT

Receipts and shipments of grain and grain products at Chicago, Ill., by calendar years (000's omitted):

RECEIPTS

	Flour, bbls	Wheat	Corn	Oats	Rye	Barley	Flaxseed	Mill-feed	Oil cake
		Bushels						Tons	
1930.....	11,396	27,759	73,678	29,210	3,578	7,163	1,023	185	3
1929.....	12,083	34,237	81,581	37,605	8,591	8,553	1,357	185	21
1928.....	12,351	37,162	117,775	53,760	4,841	16,459	2,360	183	16
1927.....	12,287	42,710	86,021	49,066	3,793	10,638	2,898	151	17
1926.....	12,907	33,113	92,710	47,243	2,163	9,032	2,274	163	7
1925.....	12,009	28,244	83,557	53,547	5,895	9,833	2,152	174	7
1924.....	12,753	69,012	93,524	82,831	9,672	11,461	1,985	159	3
1923.....	11,616	62,489	105,605	75,106	5,380	9,835	1,016	162	2
1922.....	13,729	57,850	193,271	87,141	5,534	9,938	905	170	4
1921.....	10,910	46,700	182,982	82,939	4,216	7,763	969	161	6
1920.....	8,354	28,997	85,487	74,939	6,325	11,283	1,160	233	4
1919.....	10,271	76,929	65,894	88,939	7,885	25,980	1,007	266	6
1918.....	8,914	69,610	100,409	137,072	4,480	18,534	481	296	9
1917.....	9,178	31,751	70,864	126,910	4,541	22,348	1,136	105	11
1916.....	9,363	74,944	102,376	161,244	5,601	34,524	1,225	620	43
1915.....	9,063	70,704	95,357	133,475	4,648	26,167	1,292	314	17
1914.....	9,709	99,290	106,600	138,400	3,432	25,468	1,148	320	10
1913.....	11,379	58,524	129,425	126,368	3,203	31,834	1,030	170	20

SHIPMENTS

	Flour, bbls	Wheat	Corn	Oats	Rye	Barley	Flaxseed	Mill-feed	Oil cake
		Bushels						Tons	
1930.....	7,372	29,649	37,428	24,077	5,513	[illegible]	10	594	515
1929.....	7,533	23,446	46,144	31,378	699	3,769	33	601	5
1928.....	7,081	19,660	[illegible]	34,004	1,407	6,921	14	504	15
1927.....	7,776	29,365	40,032	28,333	1,894	2,778	19	687	14
1926.....	8,671	32,131	39,232	34,478	2,292	2,453	43	491	5
1925.....	8,492	25,885	41,239	[illegible]	6,052	2,730	45	502	11
1924.....	8,079	63,435	45,921	40,012	7,121	4,652	22	543	39
1923.....	9,003	30,147	62,690	57,046	3,569	3,810	203	543	39
1922.....	11,202	50,385	119,461	73,732	5,390	3,312	8	568	12
1921.....	7,722	41,073	117,313	58,927	3,867	4,297	36	413	5
1920.....	6,092	36,064	37,778	46,421	7,439	4,592	140	521	1
1919.....	6,582	61,903	28,834	74,137	6,399	13,376	84	472	67
1918.....	6,436	49,984	39,377	86,728	2,616	4,650	8,000	344	37
1917.....	8,332	24,047	36,006	101,078	3,667	6,719	535	387	70
1916.....	8,332	61,187	61,782	116,875	4,436	11,416	27	855	61
1915.....	7,674	56,576	73,667	122,469	3,933	8,852	1,293	579	18
1914.....	7,443	85,468	65,259	122,756	2,240	7,077	31	406	32
1913.....	6,190	45,999	92,590	98,377	1,677	7,788	138	401	42

KANSAS CITY—GRAIN MOVEMENT BY MONTHS

Receipts and shipments of wheat, corn and oats at Kansas City, in bushels, by months, for five years:

	RECEIPTS			SHIPMENTS		
1930—	Wheat	Corn	Oats	Wheat	Corn	Oats
January	1,876,500	3,735,000	420,000	3,190,690	1,911,000	290,000
February ...	1,159,200	1,440,000	574,000	2,665,195	2,091,000	[illegible]
March	3,516,500	2,428,500	692,000	[illegible]	2,118,000	594,000
April	1,497,600	2,763,000	564,000	[illegible]	2,179,500	618,000
May	3,272,000	2,028,500	666,000	1,233,325	3,024,000	631,000
June	4,885,000	2,542,500	358,000	1,231,760	2,824,500	358,000
July	35,612,800	1,702,500	200,000	17,418,450	1,639,500	132,000
August	12,214,400	2,203,500	654,000	[illegible]	1,572,000	104,000
September ..	7,852,800	1,627,500	380,000	[illegible]	1,104,000	232,000
October	4,460,800	1,237,500	332,000	3,743,480	714,000	180,000
November ...	3,772,800	1,725,000	218,000	2,613,550	774,000	158,000
December ...	6,572,800	3,595,000	174,000	2,072,060	1,530,000	148,000
Totals	95,996,800	30,022,500	5,594,000	52,763,185	21,987,500	3,950,000

1929—	Wheat	Corn	Oats	Wheat	Corn	Oats
January	4,961,790	5,698,500	420,000	4,395,500	2,751,000	198,000
February ...	7,108,380	4,767,000	338,000	[illegible]	3,099,000	206,000
March	5,356,530	4,692,000	426,000	[illegible]	3,075,000	244,000
April	2,475,540	2,191,500	348,000	3,021,700	2,070,000	208,000
May	2,721,870	2,004,000	320,000	2,994,900	2,908,500	220,000
June	5,495,760	2,607,000	364,000	3,497,030	2,811,000	220,000
July	37,564,560	1,540,000	326,000	14,090,090	2,523,000	124,000
August	13,543,560	1,503,000	734,000	11,550,480	1,221,000	320,000
September ..	6,903,360	1,633,500	494,000	3,817,350	793,500	348,000
October	6,311,260	1,393,500	420,000	4,429,550	615,000	316,000
November ..	3,294,090	1,062,000	441,000	2,956,160	423,000	268,000
December ...	5,815,530	3,304,500	322,000	3,300,350	1,075,500	212,000
Totals	101,552,220	32,416,500	5,156,000	64,727,000	23,365,500	2,882,000

1928—	Wheat	Corn	Oats	Wheat	Corn	Oats
January	3,843,560	7,560,000	274,000	3,567,850	4,471,500	308,000
February ...	3,148,860	7,381,500	334,000	2,779,920	3,415,500	[illegible]
March	3,607,890	5,472,000	368,000	4,132,700	4,539,000	334,000
April	2,515,370	2,583,000	234,000	3,693,630	4,827,000	274,000
May	2,133,560	1,855,500	314,000	2,373,520	5,934,000	130,000
June	1,871,870	2,265,000	188,000	1,625,350	4,300,500	64,000
July	35,561,240	2,358,000	278,000	8,140,900	2,916,000	64,000
August	17,029,870	2,527,500	476,000	10,534,810	2,262,000	278,000
September ..	[illegible]	2,230,500	520,000	6,253,390	1,939,500	206,000
October	7,842,120	1,437,000	512,000	6,603,740	538,500	214,000
November ..	5,168,020	2,139,000	468,000	3,217,500	819,000	152,000
December ...	6,183,320	4,345,500	414,000	3,523,520	2,212,500	156,000
Totals	97,518,850	42,184,500	4,449,000	56,523,520	36,735,000	2,516,000

1927—	Wheat	Corn	Oats	Wheat	Corn	Oats
January	6,040,350	2,328,000	420,000	2,738,450	111,000	142,000
February	6,285,250	1,737,000	312,000	2,724,150	259,500	284,000
March	4,019,150	949,500	290,000	3,916,770	555,000	376,000
April	2,641,200	489,000	220,000	3,938,280	1,053,500	178,000
May	4,498,100	1,213,500	264,000	4,331,470	1,299,000	262,000
June	3,986,600	2,668,500	176,000	4,086,950	961,500	154,000
July	21,631,900	762,000	192,000	8,708,700	748,500	118,000
August	13,621,450	1,306,500	626,000	7,348,770	1,674,000	246,000
September ...	8,284,750	756,000	504,000	5,112,350	1,027,500	348,000
October	9,044,250	753,000	560,000	5,146,570	910,500	264,000
November	6,096,150	2,505,000	436,000	4,009,720	934,000	194,000
December	4,729,050	3,297,000	192,000	3,299,010	3,531,000	258,000
Totals	96,878,100	24,765,000	4,194,000	55,431,030	13,161,000	2,856,000

1926—	Wheat	Corn	Oats	Wheat	Corn	Oats
January	3,099,600	3,233,750	528,700	2,492,100	365,000	511,500
February	2,616,300	2,072,500	443,700	1,455,300	410,000	622,500
March	1,929,150	1,775,000	337,850	1,688,850	718,750	924,000
April	1,822,500	838,750	243,100	1,514,700	1,547,500	1,123,000
May	1,885,950	1,341,250	195,500	1,850,850	1,428,750	933,000
June	4,625,100	1,847,500	282,200	2,037,150	1,265,000	217,500
July	31,949,400	1,003,500	193,000	7,245,450	1,055,000	220,500
August	17,073,000	904,500	470,000	8,356,600	726,000	269,000
September ...	6,505,800	844,500	464,500	5,034,400	757,500	194,000
October	6,444,200	1,525,500	360,000	4,491,200	634,500	128,000
November ...	4,307,800	789,500	338,000	3,410,400	610,500	148,000
December	5,241,650	1,014,000	306,000	2,771,200	139,500	170,000
Totals	87,593,400	17,181,250	4,221,000	42,338,300	9,718,000	5,457,000

Wheat Receipts—Primary Markets

Aggregate weekly receipts of wheat at United States primary markets, in bushels (000's omitted):

Week ending—	1930	1929	1928	1927
Jan. 4	[illegible]	4,487	4,558	4,687
Jan. 11	[illegible]	4,506	4,962	4,764
Jan. 18	4,214	4,199	6,178	4,643
Jan. 25	3,216	5,713	5,955	5,262
Feb. 1	3,390	6,569	5,666	6,163
Feb. 8	5,235	6,496	5,671	[illegible]
Feb. 15	4,732	6,032	[illegible]	[illegible]
Feb. 22	4,190	6,277	[illegible]	[illegible]
March 1	6,238	8,413	[illegible]	[illegible]
March 8	5,276	6,675	6,550	4,911
March 15	4,074	[illegible]	6,223	4,060
March 22	3,186	[illegible]	5,068	[illegible]
March 29	[illegible]	[illegible]	5,485	[illegible]
April 5	[illegible]	[illegible]	4,420	3,486
April 12	2,598	4,119	4,476	2,980
April 19	2,337	3,554	4,170	3,408
April 26	4,077	3,661	4,072	[illegible]
May 3	3,731	3,535	4,864	[illegible]
May 10	[illegible]	4,033	6,703	[illegible]
May 17	[illegible]	4,079	7,456	5,201
May 24	4,725	4,163	4,828	4,922
May 31	3,839	4,564	[illegible]	4,934
June 7	4,546	5,451	[illegible]	[illegible]
June 14	[illegible]	5,672	3,105	[illegible]
June 21	[illegible]	6,306	2,587	[illegible]
June 28	4,940	7,509	4,237	[illegible]
July 5	5,847	11,453	7,404	8,542
July 12	18,297	16,486	14,238	[illegible]
July 19	23,568	17,840	18,755	[illegible]
July 26	32,348	29,688	23,931	[illegible]
Aug. 2	29,758	[illegible]	24,870	24,373
Aug. 9	24,110	[illegible]	20,182	19,562
Aug. 16	20,288	18,635	18,562	16,413
Aug. 23	17,665	18,553	15,972	13,843
Aug. 30	13,491	13,807	15,510	14,882
Sept. 6	17,866	12,023	15,030	16,092
Sept. 13	16,576	11,663	17,666	[illegible]
Sept. 20	13,320	10,723	18,364	[illegible]
Sept. 27	11,512	[illegible]	19,677	20,068
Oct. 4	8,980	[illegible]	22,176	21,196
Oct. 11	6,761	7,381	18,356	17,517
Oct. 18	5,810	8,323	[illegible]	14,823
Oct. 25	4,690	8,729	[illegible]	14,027
Nov. 1	6,829	6,377	12,303	14,017
Nov. 8	7,426	5,952	9,283	10,239
Nov. 15	6,449	4,502	8,718	10,544
Nov. 22	6,379	3,811	10,052	7,911
Nov. 29	3,205	4,234	11,192	8,897
Dec. 6	[illegible]	[illegible]	8,183	6,409
Dec. 13	[illegible]	[illegible]	8,916	5,813
Dec. 20	6,351	5,829	7,837	5,110
Dec. 27	5,537	3,918	5,414	4,741

Primary Grain Market Receipts

Aggregate receipts of wheat, corn and oats at the leading primary markets, by crop years, in bushels (000's omitted):

WHEAT (JULY 1-JUNE 30)

	1929-30	1928-29	1927-28	1926-27
Chicago	29,831	32,750	45,694	39,727
Sioux City	2,012	2,658	2,273	2,056
Milwaukee	6,784	5,497	5,638	7,102
Minneapolis	89,330	121,659	124,199	89,176
Duluth	72,684	107,865	118,518	53,277
St. Louis	39,983	51,712	34,009	33,026
Toledo	12,601	13,920	13,978	14,886
Wichita	26,057	29,791	20,829	27,991
Detroit	1,580	1,827	2,589	2,688
Kansas City	90,981	105,927	76,763	92,485
Peoria	2,042	2,497	1,336	1,339
Omaha	31,358	37,111	31,543	21,486
Indianapolis	5,999	3,454	5,033	5,014
St. Joseph	14,152	12,567	9,325	10,564
Totals	425,394	529,235	491,717	400,845

CORN (NOV. 1-OCT. 31)

	1929-30	1928-29	1927-28	1926-27
Chicago	77,408	94,549	104,431	91,294
Sioux City	7,474	8,751	9,140	4,397
Milwaukee	13,823	15,365	13,360	10,689
Minneapolis	13,427	12,166	9,234	[illegible]
Duluth	1,567	2,337	649	562
St. Louis	25,337	36,525	34,604	20,271
Toledo	1,249	1,789	1,519	3,746
Wichita	2,813	3,641	2,645	685
Detroit	442	604	1,015	1,469
Kansas City	28,694	34,290	46,368	[illegible]
Peoria	22,994	26,892	24,575	[illegible]
Omaha	26,427	17,288	32,612	22,101
Indianapolis	23,459	24,576	21,099	19,366
St. Joseph	10,391	10,191	13,041	9,001
Totals	255,505	288,964	314,295	232,371

OATS (AUG. 1-JULY 31)

	1929-30	1928-29	1927-28	1926-27
Chicago	36,286	41,186	52,923	49,420
Sioux City	3,661	3,787	4,695	1,252
Milwaukee	12,572	7,525	10,499	14,749
Minneapolis	21,167	20,312	26,869	18,268
Duluth	5,702	3,496	1,164	2,400
St. Louis	18,894	23,594	18,666	20,716
Toledo	1,409	7,141	4,515	8,776
Wichita	293	468	312	430
Detroit	614	1,156	1,382	1,339
Kansas City	6,416	4,951	4,019	3,297
Peoria	7,520	7,173	9,019	8,965
Omaha	9,252	7,233	8,802	6,689
Indianapolis	11,187	14,453	8,512	9,084
St. Joseph	1,418	1,366	1,308	1,512
Totals	139,391	143,841	152,747	146,917

Hampton Roads—Exports

Exports of total grain and of wheat flour from Norfolk and Newport News, Va., by calendar years:

	All grain, bus	Wheat flour, bbls
1930	1,408,281	104,480
1929	1,014,692	134,230
1928	3,380,966	94,864
1927	1,761,624	169,382
1926	883,457	165,826
1925	388,206	148,430
1924	1,912,145	234,851
1923	2,370,301	274,591
1922	746,317	148,044
1921	485,118	119,829
1920	2,814,680	1,483,888

DULUTH-SUPERIOR—GRAIN MOVEMENT

Receipts and shipments of grain at Duluth-Superior, by calendar years, in bushels (000's omitted):

RECEIPTS

	Wheat		Oats		Barley		Rye		Flaxseed		Corn
	Total	Bonded	Total	Bonded	Total	Bonded	Total	Bonded	Total	Bonded	Total
1930	[illegible]	567	[illegible]	...	6,142	208	3,983	...	7,547	62	2,890
1929	[illegible]	322	[illegible]	5	45,083	176	7,634	2	4,568	37	1,963
1928	110,880	853	[illegible]	12	30,239	598	13,483	17	6,264	6	1,140
1927	110,651	879	[illegible]	[illegible]	22,691	437	27,771	48	10,508	91	133
1926	50,548	1,236	9,637	161	5,083	800	9,787	126	7,492	136	124
1925	73,876	1,538	23,561	376	16,601	1,123	11,967	193	10,069	57	686
1924	98,966	1,653	20,556	195	12,066	685	41,276	300	16,636	195	7,875
1923	60,471	2,397	3,193	228	4,279	392	20,445	132	7,274	343	2,012
1922	56,169	2,068	3,828	26	4,470	160	39,137	89	4,048	390	12,257
1921	55,023	1,613	6,432	[illegible]	5,016	62	13,400	...	4,342	152	6,771
1920	41,888	732	3,163	...	3,416	[illegible]	19,960	...	4,949	234	13
1919	23,077	1,723	923	1	6,478	217	16,597	134	2,183	319	1
1918	78,843	884	[illegible]	5	4,828	107	8,275	[illegible]	4,469	321	183
1917	30,577	9,698	[illegible]	4,495	8,559	417	3,801	3	4,087	841	32
1916	39,300	11,392	4,255	3,046	10,123	499	2,848	[illegible]	7,156	434	...
1915	91,098	4,024	6,313	169	14,060	283	4,053	3	5,844	313	2,358
1914	60,342	3,167	6,941	385	11,013	184	4,341	...	5,487	1,210	1,377
1913	72,704	8,464	9,922	4,286	13,779	1,409	1,464	...	12,436	4,006	543
1912	70,896	16,822	5,287	5,041	10,263	670	1,904	[illegible]	14,570	1,036	8

SHIPMENTS

	Wheat		Oats		Barley		Rye		Flaxseed		Corn
	Total	Bonded	Total	Bonded	Total	Bonded	Total	Bonded	Total	Bonded	Total
1930	68,296	698	6,850	13	6,487	250	2,406	26	7,312	...	1,796
1929	72,954	398	3,603	...	14,819	163	6,556	...	4,419	...	2,124
1928	97,336	871	2,987	...	29,690	628	12,893	2	7,032	22	499
1927	99,662	846	7,953	37	23,061	53	31,580	63	10,078	22	18
1926	47,608	1,280	10,388	234	5,171	870	9,008	146	6,880	76	...
1925	72,067	1,689	25,248	[illegible]	[illegible]	1,012	11,156	157	8,810	113	701
1924	91,849	1,409	11,171	[illegible]	11,986	689	43,112	302	14,600	2	8,171
1923	42,625	1,163	2,406	[illegible]	4,490	428	18,306	190	6,592	...	1,616
1922	51,421	2,106	8,338	...	4,390	107	37,101	40	3,476	...	13,731
1921	51,068	1,454	3,546	[illegible]	4,919	54	13,139	...	5,410	...	5,156
1920	40,273	783	882	...	3,337	[illegible]	23,511	...	3,331	2	...
1919	33,310	820	962	[illegible]	7,223	289	13,628	...	2,100	[illegible]	...
1918	61,147	770	2,038	9	4,144	34	7,422	1	4,069	...	170
1917	31,747	8,912	6,356	4,518	8,676	463	3,859	[illegible]	4,529	28	6
1916	37,775	9,698	3,343	3,015	10,851	568	2,562	1	7,356	67	...
1915	87,940	3,364	7,897	160	13,628	204	4,077	3	4,588	[illegible]	3,030
1914	58,226	3,576	6,236	2,365	11,112	279	4,567	...	6,455	1,315	760
1913	63,473	8,199	9,101	2,307	13,920	1,316	1,223	...	13,184	3,807	492
1912	68,155	15,674	5,961	5,046	9,814	635	1,845	1	13,472	851	12

BALTIMORE—RECEIPTS AND EXPORTS

Receipts and exports of grain and grain products at Baltimore, Md., by calendar years (000's omitted):

RECEIPTS

	Bushels					Flour, bbls	Millfeed, tons
	Wheat	Corn	Oats	Rye	Barley		
1930	11,362	1,034	641	80	45	1,002	20
1929	16,394	1,962	797	55	4,163	987	13
1928	16,856	2,796	1,429	545	9,994	1,050	15
1927	21,817	1,283	990	771	4,844	1,279	12
1926	19,497	1,882	1,935	630	4,146	1,264	18
1925	16,853	2,859	2,117	4,527	3,784	1,425	16
1924	18,462	3,109	2,224	8,037	3,666	1,778	12
1923	[illegible]	9,153	1,982	10,872	275	1,008	17
1922	[illegible]	42,983	5,039	20,010	993	1,376	19
1921	23,229	22,169	1,656	13,407	1,256	1,566	17
1920	33,545	5,310	3,816	20,933	1,261	2,090	16
1919	[illegible]	3,393	7,317	7,804	4,373	4,107	18
1918	[illegible]	4,314	14,263	2,882	193	3,714	21
1917	25,374	19,191	22,671	9,074	1,587	3,263	12
1916	46,289	22,009	41,230	12,577	4,987	3,111	8
1915	36,304	18,740	26,743	10,219	6,104	1,588	7
1914	20,411	6,495	26,443	6,171	1,581	1,809	9
1913	28,469	21,308	5,791	1,581	161	2,004	12
1912	14,488	13,197	17,481	579	197	1,916	11

EXPORTS

	Bushels					Flour, bbls	Millfeed, tons
	Wheat	Corn	Oats	Rye	Barley		
1930	6,953	...	[illegible]	...	[illegible]	202	...
1929	10,716	1,656	170	...	4,813	202	...
1928	10,858	1,622	424	525	9,681	149	..
1927	19,982	582	146	958	4,984	490	..
1926	16,700	2,383	989	396	4,043	462	..
1925	15,342	999	900	9,842	3,943	670	..
1924	16,056	2,418	930	2,665	3,091	892	..
1923	19,419	9,492	1,102	12,637	321	760	..
1922	22,638	40,689	3,383	19,544	1,146	526	..
1921	21,748	20,805	667	11,889	1,482	608	..
1920	[illegible]	1,910	2,031	19,836	866	1,871	..
1919	[illegible]	1,029	6,711	8,395	3,917	2,348	1
1918	18,851	1,550	11,918	2,047	184	2,373	4
1917	24,229	15,083	17,010	8,320	1,510	2,083	1
1916	44,229	19,849	37,771	13,277	6,396	2,284	1
1915	34,053	17,477	23,925	9,421	6,298	922	..
1914	20,883	2,998	21,862	6,014	694	992	.
1913	26,267	18,620	1,788	686	129	1,042	..
1912	9,716	10,275	13,988	...	...	862	..

SAN FRANCISCO—FLOUR, FEED AND GRAIN RECEIPTS

Receipts of grain and grain products at San Francisco, Cal., as reported by the San Francisco Chamber of Commerce, by calendar years (000's omitted):

1930—	Flour (49's)	Bran	Middl'gs	Wheat	Barley	Oats	Corn	Rye
January	285	22	1	89	419	9	38	..
February	218	8	1	125	700	7	50	..
March	306	18	..	147	446	18	68	..
April	276	17	[illegible]	135	431	[illegible]	[illegible]	1
May	275	12	..	130	675	21	39	..
June	371	17	1	149	391	9	53	1
July	349	23	..	162	512	13	29	1
August	244	19	..	101	1,010	8	34	1
September	328	20	..	217	946	27	22	..
October	440	19	8	273	483	9	36	..
November	350	[illegible]	..	153	639	27	28	..
December	340	10	..	197	652	10	41	..
Totals	3,788	199	13	1,878	7,304	169	461	4
1929	3,721	165	27	1,544	7,450	161	583	5
1928	3,890	132	20	1,769	6,144	235	836	3
1927	3,792	135	31	1,384	7,075	287	414	10
1926	4,914	122	28	1,081	6,331	361	914	6
1925	4,819	184	60	1,692	7,871	368	487	11
1924	4,987	212	89	2,014	5,509	333	349	11
1923	4,479	151	49	1,097	4,732	302	399	13
1922	1,272	60	100	941	8,001	270	417	[illegible]
1921	4,078	110	73	866	7,907	91	266	26
1920	8,419	65	14	648	2,669	305	336	4
1919	8,974	80	33	1,766	3,728	295	246	6
1918	910	92	30	3,090	1,800	349	185	12
1917	6,946	307	134	2,088	2,041	676	203	9
1916	6,249	680	126	3,010	4,036	702	184	18
1915	6,270	450	97	2,960	7,597	828	369	12
1914	6,227	381	76	3,626	8,416	471	265	13
1913	4,776	608	120	4,464	3,830	636	88	26

Wheat Receipts by Grade

Total amounts of wheat of each class and grade, in terms of carloads, inspected on arrival at all inspection points by inspectors licensed under the United States Grain Standards Act, by crop years:

	1927-28	1928-29	1929-30
Dark northern spring—			
No. 1	40,108	17,619	35,744
No. 2	20,360	8,741	14,113
No. 3	17,481	5,646	8,272
All others	[illegible]	25,534	4,144
No. 1 hard spring	[illegible]	7,505	7,768
Totals	97,081	65,045	70,382
Northern spring—			
No. 1	33,971	59,702	14,675
No. 2	23,232	19,602	4,661
No. 3	14,137	11,600	1,951
All others	16,312	15,794	2,665
Totals	87,655	106,698	24,175
Red spring—			
No. 1	223	252	86
No. 2	130	108	62
No. 3	[illegible]	109	[illegible]
All others	395	133	55
Totals	872	602	[illegible]
Total hard red spring	185,611	172,315	94,829
Amber durum—			
No. 1	2,114	632	[illegible]
No. 2	12,069	2,314	[illegible]
No. 3	3,165	603	[illegible]
All others	2,070	464	[illegible]
Totals	19,418	4,013	9,996
Durum—			
No. 1	763	1,913	415
No. 2	8,105	17,845	4,855
No. 3	2,922	6,979	1,236
All others	3,720	9,519	1,551
Totals	15,120	36,286	8,027
Red durum—			
No. 1	5,839	1,192	1,951
No. 2	3,893	5,602	3,675
No. 3	1,368	3,689	706
All others	2,001	5,191	903
Totals	13,001	16,171	7,238
Total durum	47,939	56,803	25,261
Dark hard winter—			
No. 1	9,931	15,625	20,760
No. 2	17,822	12,204	15,604
No. 3	6,889	3,432	10,077
All others	4,231	1,106	3,455
Totals	38,873	32,367	53,836
Hard winter—			
No. 1	65,447	91,195	54,751
No. 2	76,188	116,957	131,729
No. 3	24,351	49,373	73,555
All others	29,666	47,369	40,281
Totals	195,652	304,221	300,316
Yellow hard winter—			
No. 1	1,748	1,376	[illegible]
No. 2	[illegible]	1,198	1,125
No. 3	632	688	1,524
All others	912	817	1,328
Totals	4,263	4,079	[illegible]
Total hard red winter	238,688	340,670	361,898
Red winter—			
No. 1	4,819	2,745	614
No. 2	17,812	10,534	15,457
No. 3	10,030	5,510	14,687
All others	9,971	8,036	5,177
Totals	42,632	27,118	35,965
Western red—			
No. 1	3,307	3,650	3,151
No. 2	2,030	1,313	1,361
No. 3	477	[illegible]	[illegible]
All others	501	[illegible]	[illegible]
Totals	6,318	5,263	5,027
Total soft red winter	48,950	32,111	43,992
Hard white—			
No. 1	6,089	3,874	3,437
No. 2	4,695	3,364	2,538
No. 3	1,702	750	546
All others	1,939	308	394
Totals	14,425	8,296	7,215
Soft white—			
No. 1	5,392	6,819	4,595
No. 2	11,265	7,557	9,152
No. 3	2,503	785	1,510
All others	2,743	549	277
Totals	21,903	15,740	15,567
Western white—			
No. 1	2,228	2,701	2,040
No. 2	3,901	4,001	5,507
No. 3	2,513	612	765
All others	1,421	66	66
Totals	10,063	7,380	8,378
Total white wheat	46,391	31,116	31,160
Mixed wheat—			
No. 1	6,390	6,920	4,540
No. 2	12,228	9,998	9,564
No. 3	6,971	5,631	6,453
All others	6,640	7,465	3,979
Totals	32,232	30,014	24,566
Mixed durum—			
No. 1	5,000	3,965	4,055
No. 2	5,175	7,954	6,349
No. 3	2,289	4,454	2,338
All others	1,914	6,804	2,111
Totals	14,378	23,177	14,853
Total mixed wheat	46,610	53,191	39,419
Grand totals	611,189	686,836	596,359

Minneapolis—Wheat Movement by Routes

Yearly wheat receipts and shipments at Minneapolis, by calendar years, by routes, in bushels (000's omitted):

RECEIPTS

	1930	1929	1928	1927
C., M., St. P. & P.	22,006	25,222	29,754	31,657
C., St. P., M. & O.	10,928	10,690	10,408	13,131
M. & St. L.	4,822	8,904	7,809	9,300
Gt. Northern	26,574	26,621	37,443	28,581
North. Pacific	11,475	10,477	15,213	11,944
Great Western	1,375	3,602	3,314	2,767
C., B. & Q.	...	21	75	69
Soo	14,809	13,174	20,043	13,519
Rock Island	689	2,893	2,577	1,762
Minn. Western	156	198	157	156
Totals	92,833	101,602	126,793	112,886

SHIPMENTS

	1930	1929	1928	1927
C., M., St. P. & P.	19,141	21,607	25,848	25,903
C., St. P., M. & O.	8,834	10,390	12,756	9,874
M. & St. L.	5,772	5,367	6,904	5,462
Gt. Northern	789	843	944	1,049
North. Pacific	573	1,464	840	1,311
Gt. Western	2,885	3,269	3,470	2,292
C., B. & Q.	1,626	1,707	2,208	1,217
Soo	961	969	1,505	943
Rock Island	577	322	683	692
Minn. Transf.	899	80	...	1
Barge Lines	...	32	148	...
Totals	42,056	46,050	55,306	48,745

Minneapolis—Flour Shipments by Routes

Yearly shipments of flour from Minneapolis, by calendar years, by routes, in barrels (000's omitted):

	1930	1929	1928	1927
C., M., St. P. & P.	1,760	1,737	1,822	1,802
C., St. P., M. & O.	1,220	1,107	1,340	1,313
M. & St. L.	1,291	1,366	1,991	2,033
Great Northern	982	987	956	1,015
Northern Pacific	503	526	497	633
Great Western	1,364	1,476	1,493	1,112
C., B. & Q.	1,088	1,121	1,186	1,329
Soo	1,866	1,658	1,777	1,732
Rock Island	1,349	1,142	1,525	1,197
Minn. Transfer	4	1	..	..
Totals	11,407	11,421	12,596	12,196
Receipts	222	277	236	333

Percentages of flour hauled out of Minneapolis by the respective roads:

	1930	1929	1928	1927
C., M., St. P. & P.	15.34	15.21	14.38	14.78
C., St. P., M. & O.	10.69	9.69	10.70	11.01
M. & St. L.	11.05	11.17	15.80	16.67
Great Northern	8.60	8.64	7.38	8.32
Northern Pacific	4.32	4.61	3.80	5.19
Great Western	11.80	13.01	11.56	9.11
C., B. & Q.	9.54	9.72	9.99	10.89
Soo	16.27	14.52	14.11	14.20
Rock Island	11.81	12.62	12.10	9.82

Minneapolis—Grain and Flour Movement

Receipts and shipments at Minneapolis, by crop years, ended Aug. 31 (000's omitted):

	1929-30	1928-29	1927-28	1926-27
Wheat, bus.	86,492	135,294	125,820	87,038
Corn, bus.	13,313	12,078	9,504	11,872
Oats, bus.	20,838	24,472	21,441	19,355
Barley, bus.	17,912	26,929	25,172	13,559
Rye, bus.	8,730	8,402	5,383	4,615
Flaxseed, bus	9,598	12,311	13,598	8,511
Flour, bbls.	258	241	280	319
Millfeed, tons	45	61	50	54

SHIPMENTS

	1929-30	1928-29	1927-28	1926-27
Wheat, bus.	48,278	54,175	58,990	35,671
Corn, bus.	9,367	8,219	7,690	7,327
Oats, bus.	18,850	19,395	26,782	28,307
Barley, bus.	11,422	19,612	20,884	11,973
Rye, bus.	5,632	4,878	3,168	5,725
Flaxseed, bus	3,213	4,185	3,821	2,279
Millfeed, tons	673	713	798	671
Flour, bbls.	11,213	11,647	13,445	11,958

Minneapolis—Feed Movement

Receipts and shipments of feed at Minneapolis, in tons, by crop years (000's omitted):

	Receipts	Shipments		Receipts	Shipments
1929-30	45	673	1917-18	67	695
1928-29	61	713	1916-17	69	717
1927-28	60	798	1915-16	92	748
1926-27	54	671	1914-15	64	609
1925-26	28	657	1913-14	78	650
1924-25	26	612	1912-13	56	612
1923-24	74	748	1911-12	45	643
1922-23	111	665	1910-11	37	599
1921-22	66	658	1909-10	37	475
1920-21	72	624	1908-9	33	443
1919-20	116	803	1907-8	28	367
1918-19	111	709	1906-7	27	376

Wheat by Grade and Type

Percentage of total federal wheat inspections graded respectively No. 1, No. 2, No. 3 and other grades, by crop years ended June 30:

	1930	1929	1928	1927	1926	1925
No. 1	25	32	32	40	30	30
No. 2	40	33	36	34	41	42
No. 3	21	15	16	12	18	16
All others	14	20	16	14	11	12
	100	100	100	100	100	100

Percentage of total federal wheat inspections falling into the principal type classifications, by crop years ended June 30:

	1930	1929	1928	1927	1926	1925
Hard red spring	16	25	30	17	31	20
Durum	5	8	8	4	9	6
Hard red winter	60	49	39	51	34	55
Soft red winter	7	5	8	14	9	8
White	5	5	7	6	7	3
Mixed wheat	7	8	8	8	10	8
	100	100	100	100	100	100

FLOUR MOVEMENT AT CENTERS

Receipts and shipments of wheat flour at leading United States centers, by calendar years, in barrels (000's omitted):

RECEIPTS

	1930	1929	1928	1927	1926	1925	1924	1923	1922
Chicago	11,396	12,083	12,361	12,287	12,307	13,009	12,253	11,614	12,729
New York	11,798	[illegible]	[illegible]	11,780	[illegible]	[illegible]	11,992	11,636	11,714
Minneapolis	322	277	226	333	331	774	963	1,404	1,110
Boston	1,113	1,580	1,530	1,532	1,660	1,339	1,555	1,179	1,242
Baltimore	1,002	987	1,050	1,279	1,261	1,425	1,778	1,608	1,776
Philadelphia	2,080	1,894	1,871	2,194	2,213	2,521	2,612	3,318	2,153
Milwaukee	972	2,265	2,643	2,733	1,878	2,259	2,465	1,843	2,569
New Orleans	...	2,023	1,955	1,463	...	2,523	4,224	3,037	2,422
Portland, Oregon	1,122	1,085	1,046	1,233	918	761	683	876	671
San Francisco	947	930	973	948	1,019	1,207	1,247	1,120	318

SHIPMENTS

	1930	1929	1928	1927	1926	1925	1924	1923	1922
Chicago	7,372	7,533	7,081	7,776	8,671	8,492	8,079	8,092	11,202
New York	6,051	3,902	4,483	4,139	4,769	6,568	7,396	6,956	6,845
Minneapolis	11,407	11,421	12,596	12,196	12,139	12,717	12,836	15,459	17,444
Boston	267	329	313	356	490	217	476	73	191
Baltimore	202	202	149	490	162	570	492	750	526
Philadelphia	68	75	112	237	298	289	391	640	599
Milwaukee	400	1,455	2,071	2,197	1,314	1,865	1,827	2,385	2,221
New Orleans	...	1,929	1,666	2,178	...	2,277	3,647	2,757	2,219
Portland, Oregon	1,910	2,222	2,063	1,735	1,647	1,710	2,243	2,154	1,653
St. Joseph, Mo.	1,388	2,110	2,156	2,370	2,250	2,007	2,137	1,414	1,868

WHEAT MOVEMENT AT CENTERS

Receipts and shipments of wheat at leading United States centers, by calendar years, in bushels (000's omitted):

	1930	1929	1928	1927	1926	1925	1924	1923	1922
Chicago	27,759	34,237	37,152	42,710	38,113	28,214	69,012	52,489	57,850
New York	55,023	49,591	67,717	72,052	78,519	78,027	71,291	77,285	65,968
Minneapolis	92,833	101,602	126,793	112,886	95,244	109,869	108,774	121,455	124,173
Duluth-Superior	72,758	78,842	110,850	110,661	50,548	73,874	98,965	50,471	56,159
Boston	853	1,891	4,006	3,048	3,211	2,123	1,954	8,818	6,948
Toledo	12,788	13,889	12,250	16,878	12,115	9,262	13,311	11,980	9,680
Indianapolis	5,390	5,653	4,600	...	5,405	4,526	5,055	6,131	3,301
St. Joseph	13,181	16,153	11,697	9,621	10,529	12,929	13,651	10,150	11,417
Omaha	11,661	43,186	39,429	35,747	21,724	19,196	31,334	22,631	23,883
Kansas City	95,968	101,552	97,519	96,878	87,500	52,017	90,824	68,735	85,449
Baltimore	...	14,334	16,856	21,817	19,497	15,853	18,162	21,332	23,763
St. Louis	32,808	28,795	34,555	22,850	26,156	24,668	42,150	36,577	39,376
Philadelphia	3,018	8,284	11,133	20,609	19,287	33,194	31,383	31,358	49,347
Cincinnati	3,281	4,483	1,977	4,739	5,190	5,793	7,310	6,318	3,716
Milwaukee	4,334	7,100	5,887	6,459	7,176	4,615	8,561	3,092	2,871
New Orleans	...	7,313	5,787	...	...	13,530	23,209	10,429	24,317
Fort Worth	11,700	20,402	12,172	13,152	15,585	6,795	13,410	6,194	8,717
Seattle*	8,687	9,696	12,286	12,773	10,139	7,812	9,579	9,731	9,363
Tacoma*	8,192	8,082	7,845	7,310	6,377	4,917	5,921	8,469	7,344
Portland, Oregon	29,760	28,776	47,289	47,289	42,248	19,274	30,940	28,774	32,587
San Francisco†	1,878	1,544	1,769	1,384	1,031	1,592	2,014	1,097	941
Buffalo‡	148,165	135,149	210,591	185,451	156,113	179,948	150,276	133,622	163,504
Memphis	337	287	291	333	484	402	381	436	390

SHIPMENTS

	1930	1929	1928	1927	1926	1925	1924	1923	1922
Chicago	29,649	23,466	19,660	29,365	32,131	25,885	63,435	30,147	50,385
New York	53,888	46,605	61,582	67,275	74,078	73,993	63,991	63,879	59,627
Minneapolis	42,056	46,050	55,307	48,745	39,530	53,083	55,131	48,371	44,562
Duluth-Superior	68,296	72,954	97,336	99,662	47,608	72,057	91,849	42,625	51,421
Boston	2,122	1,885	3,239	2,544	3,309	2,107	2,918	8,041	7,904
Toledo	3,063	4,473	6,318	7,565	3,837	3,957	5,830	7,025	4,007
Indianapolis	1,573	3,520	2,365	...	2,627	3,111	2,689	3,927	1,538
St. Joseph	8,811	5,449	3,406	2,898	2,562	3,937	4,924	4,110	6,093
Omaha	31,766	32,831	23,556	28,417	15,179	16,873	30,278	16,995	23,553
Kansas City	62,919	61,727	56,521	55,431	42,338	34,985	61,051	35,621	65,201
Baltimore	...	10,716	10,858	19,952	16,700	15,342	16,056	19,119	22,638
Philadelphia	5,331	6,333	10,310	17,373	19,363	32,660	25,764	31,190	33,960
Cincinnati	3,310	3,603	2,288	3,171	4,101	3,501	4,284	4,404	2,904
Milwaukee	2,517	6,875	1,220	6,518	7,404	2,761	8,490	2,711	2,500
New Orleans	...	6,256	6,332	...	...	15,091	21,256	11,535	27,419
Portland, Oregon	21,533	20,772	23,183	36,793	33,098	9,897	22,947	18,785	23,847
Fort Worth	4,891	6,672	5,793	3,990	4,567	3,253	4,567	3,073	4,324

*Carloads, 000's not omitted. †Centals of 100 lbs, 000's omitted. ‡Lake receipts only.

NEW YORK CITY—RECEIPTS AND EXPORTS

Receipts and exports of grain and grain products at New York City, by calendar years (000's omitted):

RECEIPTS

	Wheat, bus	Flour, bbls	Corn (Bushels)	Oats (Bushels)	Rye (Bushels)	Barley (Bushels)	Flaxseed (Bushels)	Millfeed (Tons)	Oil cake (Tons)	Oatmeal (Bbls)	Corn meal (Bbls)
1930	55,023	14,798	2,088	1,767	266	176	1,811	155	500	50	133
1929	49,591	15,919	15,695	4,949	606	11,437	1,318	15	925	40	15
1928	67,717	14,462	2,964	8,576	3,660	18,289	1,681	14	363	32	21
1927	72,052	11,780	2,426	7,193	5,517	23,320	6,353	29	240	60	18
1926	78,519	12,518	2,462	12,170	16,437	65,407	6,049	110	85	51	30
1925	78,027	12,991	2,300	23,483	5,031	21,571	3,265	60	23	127	145
1924	74,291	11,992	5,909	18,197	15,998	20,055	6,464	58	94	95	155
1923	77,285	11,636	9,349	12,082	15,162	6,771	10,091	4	4	18	60
1922	68,968	11,714	27,083	34,672	12,599	7,314	4,093	3	13	20	42
1921	54,001	11,926	13,230	11,213	3,100	6,260	3,367	3	59	103	45
1920	62,573	6,905	6,764	14,731	24,719	5,409	5,714	3	75	26	65
1919	50,155	7,996	1,976	31,692	12,529	9,941	378	8	29	636	151
1918	33,857	8,535	7,726	27,229	3,790	5,684	160	8	1	805	612
1917	78,217	7,929	13,768	38,406	3,441	11,513	3,372	13	40	903	447
1916	127,316	8,773	11,055	33,277	744	14,055	5,343	17	74	399	453
1915	99,342	12,847	14,383	38,392	2,020	6,671	10,652	27	91	139	613
1914	50,516	11,237	14,696	27,796	2,273	6,135	1,452	32	85	82	697
1913	53,980	9,451	10,704	20,382	739	6,195	7,371	35	113	124	725
1912	45,976	8,670	7,463	24,152	331	17,070	68	31	93	405	646
1911	28,406	8,304	16,061	24,650	302	3,889	5,860	39	52	103	727
1910	16,413	8,098	12,286	23,115	288	288	4,017	49	69	106	682
1909	23,304	7,069	7,428	22,718	300	3,469	2,224	49	52	105	434

EXPORTS

	Wheat, bus	Flour, bbls	Corn (Bushels)	Oats (Bushels)	Rye (Bushels)	Barley (Bushels)	Flaxseed (Bushels)	Millfeed (Tons)	Oil cake (Tons)	Oatmeal (Bbls)	Corn meal (Bbls)
1930	53,888	6,051	...	109	162	813	128	...	240	5	3
1929	46,605	3,902	509	1,034	419	11,508	...	6	2,331	17	7
1928	61,582	4,383	1,210	3,794	4,113	17,199	...	14	387	78	14
1927	67,275	4,139	667	2,196	7,004	20,544	...	32	401	150	27
1926	74,078	4,769	770	7,043	4,676	16,283	...	10	242	140	48
1925	73,993	6,868	397	16,048	8,542	21,574	...	4	789	402	33
1924	63,991	7,396	1,125	11,614	13,176	15,832	...	6	235	313	56
1923	63,879	6,956	6,717	6,211	13,696	6,128	...	2	204	254	25
1922	59,627	6,846	24,720	25,370	12,241	5,450	...	15	172	217	81
1921	42,601	7,786	12,685	3,709	4,095	5,650	...	1	195	237	154
1920	45,593	6,692	2,919	8,423	21,724	4,442	...	1	73	111	165
1919	39,914	8,654	1,221	27,119	13,112	9,274	...	2	40	624	320
1918	28,924	5,092	6,008	18,452	4,260	5,717	2	2	20	502	232
1917	71,512	4,612	12,229	25,445	2,895	7,509	...	2	84	152	111
1916	115,509	5,402	8,078	18,090	865	11,419	...	3	47	183	249
1915	91,908	7,505	9,627	17,559	1,991	5,479	62	4	36	162	291
1914	40,860	6,379	3,910	10,568	1,846	4,660	55	3	16	70	168
1913	49,020	4,550	5,884	4,352	724	5,516	3,133	97	267	24	208
1912	38,241	3,703	5,078	5,704	190	4,310	498	12	200	8	396
1911	20,572	3,508	12,085	433	...	...	15	6	155	43	173
1910	9,278	2,930	7,612	413	63	442	3	4	137	13	184
1909	17,590	2,356	3,677	477	218	324	442	6	109	33	137

Kansas City—Grain Movement

Receipts and shipments of grain at Kansas City, by calendar years, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye	Barley
1930	95,968	30,022	5,591	468	2,864
1929	101,552	32,417	5,156	204	2,677
1928	97,519	42,185	4,400	228	3,995
1927	96,878	34,765	4,194	442	1,264
1926	87,500	17,181	4,231	568	[illegible]
1925	52,046	18,255	13,506	326	511
1924	90,824	23,113	7,693	323	683
1923	68,735	17,575	13,984	337	1,623
1922	85,449	16,100	7,799	357	961
1921	110,204	15,495	7,119	442	1,657
1920	76,738	10,813	7,553	893	2,461
1919	72,137	15,801	12,503	613	3,140
1918	50,448	30,302	15,548	465	1,566
1917	36,954	14,017	14,917	442	711
1916	77,785	22,186	7,961	414	2,043
1915	58,693	20,803	6,247	361	1,817
1914	70,758	23,172	3,258	197	483
1913	33,870	21,929	10,174	458	364
1912	43,719	19,522	4,682	147	182
1911	25,701	16,334	4,330	84	392
1910	43,528	17,619	5,452	79	394
1909	35,354	11,566	6,350	121	421
1908	40,131	9,643	5,613	219	645
1907	36,617	16,024	8,623	161	404
1906	37,423	15,882	6,464	213	503
1905	40,038	21,508	6,875	323	856
1904	39,160	14,188	4,675	247	581
1903	38,322	16,283	6,530	481	313
1902	24,018	16,092	8,358	377	33
1901	26,353	13,489	5,800	465	62
1900	34,775	8,334	3,342	171	16
1899	20,364	8,759	2,421	184	18
1898	28,731	13,078	3,325	521	31
1897	26,122	20,210	3,923	326	17
1896	6,979	13,215	4,279	125	20
1895	8,231	8,394	3,410	127	29
1894	9,518	10,733	3,762	67	13

Receipts of Kafir corn, milo maize and feterita in the years since records were kept, in bushels: 1911, 1,346,428; 1912, 2,733,500; 1913, 1,793,000; 1914, 1,362,300; 1915, 4,527,600; 1916, 5,259,100; 1917, 1,023,000; 1918, 2,179,[illegible]; 1919, 2,150,500; 1920, 6,046,500; 1921, 4,712,500; 1922, 3,124,000; 1923, 1,772,100; 1924, 4,637,600; 1925, 4,282,300; 1926, 3,315,400; 1927, 4,050,200; 1928, 4,688,300; 1929, 5,173,300; 1930, 2,480,500.

SHIPMENTS

	Wheat	Corn	Oats	Rye	Barley
1930	62,919	22,087	[illegible]	273	1,982
1929	61,727	23,365	2,882	156	1,715
1928	56,524	36,438	2,516	292	2,454
1927	58,431	13,161	2,856	498	820
1926	42,338	9,719	5,457	404	167
1925	34,985	14,123	5,483	105	230
1924	61,051	12,684	4,345	876	802
1923	35,621	8,233	6,959	183	693
1922	65,201	8,874	4,317	250	350
1921	76,235	10,919	4,260	352	1,041
1920	51,979	4,968	4,387	771	1,378
1919	48,295	9,312	9,402	339	1,149
1918	21,915	24,221	10,210	391	787
1917	31,044	9,210	13,019	344	583
1916	64,885	22,201	3,534	358	2,016
1915	44,921	12,873	4,340	345	1,849
1914	57,453	16,495	8,495	219	147
1913	21,622	12,960	7,707	242	44
1912	30,445	13,637	8,297	180	111
1911	17,890	14,075	4,676	70	375
1910	30,446	15,202	4,261	83	259
1909	25,282	9,332	5,850	54	121
1908	26,491	6,784	4,053	51	46
1907	28,964	12,644	7,413	76	179
1906	25,695	11,982	6,426	86	141
1905	29,364	17,034	5,185	160	563
1904	29,138	10,724	3,047	125	116
1903	25,719	13,342	4,417	241	59
1902	16,510	13,364	6,139	191	19
1901	20,851	9,341	3,984	309	17
1900	28,493	5,559	1,676	139	8
1899	13,498	5,584	1,907	122	25
1898	20,357	8,209	1,595	226	16
1897	21,878	15,556	2,127	172	4
1896	6,718	11,509	1,840	120	9
1895	6,739	6,993	1,175	103	29
1894	5,295	9,130	1,265	63	...

Shipments of Kafir corn, milo maize and feterita in the years since records were kept, in bushels: 1911, 1,208,928; 1912, 1,769,426; 1913, 1,747,000; 1914, 8,434,300; 1915, 4,949,200; 1916, 3,534,000; 1917, 665,000; 1918, 1,649,400; 1919, 1,362,000; 1920, 2,724,000; 1921, 3,219,000; 1922, 4,712,400; 1923, 1,484,000; 1924, 3,076,600; 1925, [illegible]; 1926, 2,425,000; 1927, 3,125,300; 1928, 3,347,000; 1929, 4,116,000; 1930, 1,950,000.

Chicago—Lake Shipments

Shipments of wheat, flour, corn and oats by lake, for two years (000's omitted):

FLOUR AND WHEAT

	Flour (1930)	Wheat (1930)	Flour (1929)	Wheat (1929)
Buffalo	1,332	10,940	1,089	7,426
Erie	237	...	279	508
Toledo	...	403	...	354
Depot Harbor	93	247	125	582
Montreal	...	815	...	54
Collingwood	...	159	...	319
Sarnia	...	1,397	...	1,083
Fairport	...	711	...	...
Port Colborne	...	192	...	...
Others	...	697	...	...
Totals	1,662	15,471	1,493	10,317

CORN AND OATS (BUS)

	Corn (1930)	Oats (1930)	Corn (1929)	Oats (1929)
Buffalo	6,819	1,522	5,663	2,979
Depot Harbor	866	1,385	979	2,051
Montreal	...	...	35	51
Collingwood	520	305	843	629
Midland	1,182	868	493	139
Tiffin	4,958	1,634	4,833	1,350
Port McNicoll	533	504	248	...
Cardinal	374	...	1,032	...
Owen Sound	290	...	441	...
Sarnia	...	...	282	518
Quebec	...	...	24	...
Toledo	...	453	...	919
New York	...	...	110	...
Kingston	83	...	195	...
Toronto	98	...	599	...
Totals	14,893	6,673	15,799	8,734

Chicago—Grain and Flour Movement

Receipts and shipments of flour and grain at Chicago by routes during 1930 (000's omitted):

RECEIPTS

	Flour bbls	Wheat bus	Corn bus	Oats bus
North Western	[illegible]	1,778	14,401	[illegible]
Ill. Central	[illegible]	3,499	11,351	[illegible]
Rock Island	532	2,141	7,700	[illegible]
Burlington	[illegible]	4,383	8,981	4,274
Chi. & Alton	[illegible]	2,635	4,031	1,424
East. Ill.	[illegible]	682	4,500	1,206
C., M., St. P. & P.	2,467	1,073	[illegible]	3,658
Wabash	465	4,391	[illegible]	1,050
Gt. Western	[illegible]	636	[illegible]	979
Santa Fe	[illegible]	1,101	[illegible]	946
Soo Line	[illegible]	205	[illegible]	116
E., J. & E.	...	72	547	66
E. and S. E. Lines	176	1,934	5,642	240
Lake	...	3,229	73	613
Tots., 1930	11,396	27,769	73,678	29,210
Totals, 1929	12,083	34,237	81,581	37,605
Totals, 1928	12,351	37,153	117,775	53,760
Totals, 1927	12,287	42,710	86,021	49,066
Totals, 1926	12,907	38,113	92,710	47,243
Totals, 1925	13,009	28,244	83,557	53,547
Totals, 1924	12,253	69,012	99,524	82,831
Totals, 1923	11,616	*52,489	105,505	75,106
Totals, 1922	13,729	†57,850	193,271	87,141
Totals, 1921	10,910	45,700	182,982	82,729
Totals, 1920	8,354	28,997	85,487	74,939
Totals, 1919	10,271	76,920	65,894	88,939
Totals, 1918	8,914	69,610	100,409	137,072
Totals, 1917	9,678	31,751	70,854	125,910

SHIPMENTS

	Flour bbls	Wheat bus	Corn bus	Oats bus
By lake	1,682	15,471	14,893	[illegible]
North Western	494	804	347	[illegible]
Ill. Central	216	2,179	1,167	2,730
Rock Island	[illegible]	...	1	...
C., B. & Q.	[illegible]	1	...	2
Chi. & Alton	79	192	3	36
East. Ill.	211	195	60	270
C., M., St. P. & P.	37	166	[illegible]	171
Wabash	[illegible]	14	[illegible]	54
Soo Line	35	[illegible]	...	34
E. and S. E. Lines	4,583	10,608	20,875	13,877
Santa Fe	10	10	[illegible]	50
Tots., 1930	7,372	29,649	37,128	24,077
Totals, 1929	6,040	13,129	30,345	22,644
Totals, 1928	7,081	19,660	53,898	34,004
Totals, 1927	7,776	29,365	40,032	26,323
Totals, 1926	8,671	32,131	39,232	36,678
Totals, 1925	8,492	25,885	41,229	48,919
Totals, 1924	8,079	63,435	45,921	46,012
Totals, 1923	8,002	30,147	62,690	57,045
Totals, 1922	11,202	‡50,385	119,451	73,732
Totals, 1921	7,722	41,073	117,313	68,927
Totals, 1920	6,092	36,064	37,778	46,421
Totals, 1919	6,582	61,903	28,834	74,137
Totals, 1918	6,436	49,984	39,877	86,738
Totals, 1917	8,383	24,047	36,006	101,078

*Includes 199,000 bus in bond. †Includes 812,000 bus in bond. ‡Includes 194,000 bus in bond.

St. Louis—Grain Movement

Receipts and shipments of grain at St. Louis by years, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye	Barley
1930*	32,505	20,718	12,639	169	1,351
1929*	28,795	23,716	16,407	71	1,453
1928*	34,585	27,250	15,585	114	1,862
1927*	22,850	18,312	16,018	261	900
1926*	26,156	24,077	16,792	213	1,019
1925*	24,668	23,722	22,632	152	1,264
1924	42,150	36,414	32,962	474	1,160
1923	36,578	32,400	36,223	851	1,224
1922	39,376	33,176	29,336	553	837
1921	47,716	29,516	26,940	392	830
1920	35,975	26,386	30,676	484	1,146
1919	43,726	20,636	32,711	365	1,162
1918	37,732	25,707	32,884	418	906
1917	30,360	22,250	30,843	460	1,727
1916	40,606	18,460	19,238	814	1,581
1915	35,250	18,917	19,403	495	1,463
1914	33,569	17,105	24,944	389	2,390
1913	31,268	22,189	24,364	433	2,255
1912	30,642	25,979	21,530	187	1,760
1911	17,077	23,621	20,344	237	2,303
1910	19,703	22,349	22,287	336	2,375

SHIPMENTS

	Wheat	Corn	Oats	Rye	Barley
1924†	30,119	23,002	27,791	361	370
1923	28,850	20,541	29,518	896	401
1922	32,246	24,131	22,545	288	285
1921	36,247	21,424	19,892	148	264
1920	26,187	14,971	22,365	328	303
1919	31,658	12,028	22,943	190	388
1918	21,066	15,933	27,271	287	481
1917	25,060	13,426	26,891	365	160
1916	31,436	9,428	13,832	704	150
1915	28,179	9,921	13,702	385	196
1914	25,626	10,739	20,116	288	360
1913	25,148	11,693	16,140	287	100
1912	21,196	15,231	14,130	80	131
1911	12,164	13,187	12,051	174	153
1910	15,172	14,616	15,106	338	119

*Receipts since 1925 have been figured on a basis to include only grain locally consigned. †No records of shipments were kept after 1924.

Memphis—Grain Movement

Receipts of grain and alfalfa meal at Memphis by years, in bushels (000's omitted):

	Wheat	Corn	Oats	Alfalfa meal, tons
1930	337	2,891	5,002	8
1929	287	4,204	5,728	12
1928	291	4,604	5,212	17
1927	333	4,933	5,025	15
1926	434	6,513	7,861	17
1925	402	6,261	8,866	[illegible]
1924	381	8,032	10,131	27
1923	436	6,982	9,651	29
1922	390	6,645	8,857	24
1921	384	5,330	7,693	17
1920	408	5,248	6,867	[illegible]
1919	681	3,280	7,780	[illegible]

MILWAUKEE—GRAIN AND FLOUR MOVEMENT

Receipts and shipments of grain and grain products at Milwaukee (000's omitted):

RECEIPTS

	Wheat, bus	Flour, bbls	Corn, bus	Oats, bus	Rye, bus	Barley, bus	Millfeed, tons	Flaxseed, bus	Oil cake, tons
1930	4,334	[illegible]	12,405	8,654	448	12,343	2	672	...
1929	7,100	[illegible]	13,750	13,205	695	12,238	44	439	...
1928	6,007	2,643	17,361	7,966	1,124	14,188	61	950	...
1927	6,459	[illegible]	11,768	13,607	1,070	9,851	48	1,107	...
1926	7,176	[illegible]	7,642	13,823	1,093	8,952	61	811	...
1925	4,615	[illegible]	8,164	16,563	911	11,849	57	824	...
1924	8,561	2,465	13,565	19,465	2,810	11,454	[illegible]	714	...
1923	3,092	1,843	18,679	25,936	2,305	9,286	54	883	...
1922	2,871	2,589	23,962	22,851	2,915	9,491	79	723	...
1921	8,893	1,694	29,901	19,344	2,561	9,711	63	774	...
1920	3,470	1,144	15,937	23,266	4,582	9,016	39	800	...
1919	8,551	820	8,398	28,484	4,589	19,064	60	351	...
1918	13,049	830	11,804	39,266	2,668	10,118	49	258	1
1917	7,676	1,073	11,122	29,344	2,500	16,724	25	437	1
1916	8,705	2,458	11,612	40,135	3,669	22,403	133	481	4
1915	6,723	3,502	14,118	28,538	3,679	17,191	247	585	18
1914	9,831	3,249	18,338	26,792	3,708	17,986	234	662	...
1913	7,273	3,161	13,140	15,973	3,081	19,898	151	679	...
1912	9,697	2,429	10,150	14,346	3,050	13,716	149	667	1
1911	8,663	3,323	8,106	12,453	2,073	13,445	76	140	1

SHIPMENTS

	Wheat, bus	Flour, bbls	Corn, bus	Oats, bus	Rye, bus	Barley, bus	Millfeed, tons	Flaxseed, bus	Oil cake, tons
1930	2,517	400	7,663	8,452	3,607	268	105	20	...
1929	6,875	1,655	10,506	9,811	1,143	6,145	121	29	...
1928	4,220	2,071	11,639	8,518	590	5,318	103	15	...
1927	6,648	2,197	8,140	11,825	1,421	2,876	203	...	...
1926	7,404	1,314	4,305	6,032	656	1,824	133	203	...
1925	2,761	1,865	5,138	11,692	1,291	2,867	203	3	...
1924	8,490	1,827	10,014	13,844	2,270	3,942	316	16	...
1923	2,711	2,388	13,304	21,089	2,146	2,947	405	463	...
1922	2,600	2,221	20,729	18,390	2,492	3,966	392	279	...
1921	8,161	1,444	25,266	13,406	2,099	2,690	305	80	...
1920	3,736	1,076	7,434	15,984	4,007	2,613	223	11	...
1919	5,657	2,788	3,895	20,576	3,323	8,372	237	31	...
1918	8,681	3,080	6,960	28,694	709	4,369	221	15	...
1917	5,559	1,368	7,712	22,298	1,584	3,777	168	...	...
1916	4,799	2,438	7,681	38,045	3,055	5,766	247	78	[illegible]
1915	3,153	3,730	12,900	27,292	2,889	6,264	323	...	[illegible]
1914	7,163	3,913	13,586	26,685	3,251	4,856	276	11	[illegible]
1913	3,987	3,491	8,957	13,599	2,397	5,017	229	6	...
1912	4,589	3,487	6,081	11,163	2,203	3,742	256	53	...
1911	5,413	3,553	7,631	11,988	1,567	6,187	262	...	...

BOSTON—RECEIPTS AND EXPORTS

Receipts and exports of grain and grain products at Boston, Mass., by calendar years, as compiled by the Boston Grain & Flour Exchange (000's omitted):

RECEIPTS

Year—	Flour, bbls	Bushels: Wheat	Corn	Oats	Rye	Barley	Mill-feed, tons	Corn meal, bbls	Oatmeal: cases	sacks
1930	1,443	853	14	485	17	22	[illegible]	8	190	67
1929	1,580	1,891	9	690	17	1,089	3	8	168	[illegible]
1928	1,630	4,006	[illegible]	728	131	2,169	[illegible]	10	172	[illegible]
1927	1,532	3,048	[illegible]	1,184	267	2,227	1	3	11	1
1926	1,660	3,211	164	1,445	38	938	1	2	[illegible]	3
1925	1,359	2,123	33	1,697	251	1,778	2	[illegible]	91	...
1924	1,565	1,954	84	2,237	1,034	384	[illegible]	7	51	...
1923	1,179	8,818	187	2,207	500	108	3	9	38	12
1922	1,243	6,948	1,952	4,066	534	128	[illegible]	[illegible]	141	25
1921	1,094	2,686	1,406	1,727	58	40	2	7	67	24
1920	1,126	4,853	115	2,024	867	127	2	12	50	35
1919	2,126	9,342	57	6,175	900	2,776	5	10	49	246
1918	2,908	5,600	490	8,551	209	453	6	84	238	222
1917	2,105	7,816	811	9,411	316	60	5	28	[illegible]	109
1916	2,100	16,531	2,402	13,494	266	565	[illegible]	15	206	...
1915	2,017	13,569	752	3,288	401	875	[illegible]	28	311	130
1914	1,792	10,949	408	5,147	406	988	5	37	44	52
1913	2,131	23,150	4,113	4,354	248	264	10	[illegible]	72	112
1912	2,011	14,603	2,040	5,486	77	423	12	49	216	207
1911	1,852	9,206	6,666	4,421	[illegible]	48	11	36	*204	...
1910	1,918	5,707	3,424	4,307	59	170	19	26	*326	...
1909	1,916	9,466	2,948	4,218	61	407	33	37	*167	...
1908	1,957	8,946	1,916	4,142	318	238	61	[illegible]	*229	...

EXPORTS

Year—	Flour, bbls	Bushels: Wheat	Corn	Oats	Rye	Barley	Mill-feed, tons	Corn meal, bbls	Oatmeal: cases	sacks
1930	267	2,122	...	...	...	21	...	...	49	...
1929	329	1,885	...	88	...	1,907	...	...	12	[illegible]
1928	313	3,239	...	120	164	2,334	...	...	36	18
1927	366	2,506	...	39	193	1,720	...	...	28	...
1926	490	3,309	43	419	...	1,406	...	...	...	[illegible]
1925	217	2,107	5	1,128	1,139	2,111	...	...	10	...
1924	476	2,918	19	78	424	257	...	...	24	11
1923	73	8,041	129	697	437	83	...	...	36	9
1922	194	7,904	1,811	2,901	422	123	...	...	119	7
1921	51	2,315	1,358	706	243	40	...	[illegible]	37	13
1920	274	4,647	26	629	726	121	...	...	104	2
1919	1,145	9,167	...	3,828	1,113	2,717	...	19	174	213
1918	1,313	6,154	324	7,115	198	454	...	17	257	162
1917	957	9,333	1,096	11,869	514	10	...	35	187	237
1916	1,168	18,685	2,278	11,528	159	624	[illegible]	[illegible]	447	...
1915	740	14,136	682	274	360	1,244	[illegible]	17	301	130
1914	538	13,887	195	1,367	416	611	[illegible]	17	167	77
1913	747	20,543	3,991	1,046	252	407	2	26	166	146
1912	656	14,418	1,764	1,135	43	186	2	23	127	185
1911	574	8,891	6,446	119	...	[illegible]	3	[illegible]	*143	...
1910	582	6,337	2,750	137	6	92	2	6	*193	...
1909	616	9,395	2,067	21	37	333	[illegible]	14	*116	...

*Barrels.

DULUTH-SUPERIOR LAKE SHIPMENTS

Shipments of domestic and bonded grain and flaxseed from Duluth-Superior by lake in 1930, in bushels (000's omitted):

To—	Domestic wheat: Spring	Durum	Winter	Totals	Bonded wheat	Coarse grain: Corn	Oats	Rye	Barley	Flaxs'd
Buffalo	27,713	15,789	3,383	46,885	101	1,694	1,901	863	4,911	5,551
Chicago	1,370	1,355	...	2,725	...	...	...	1,008	1,401	151
Cleveland	130	...	...	130	...	...	...	...	...	776
Detroit	203	...	...	203	...	...	...	...	...	...
Erie	...	797	...	797	...	...	...	...	...	...
Fairport	...	...	...	...	...	...	1,001	...	...	...
Toledo	1,751	4	250	2,005	...	...	3,529	...	...	...
Total U. S.	31,167	17,945	3,633	52,745	101	1,694	6,431	1,871	6,312	6,478
Montreal	53	552	53	658	170	...	...	...	...	...
Port McNicoll	...	182	[illegible]	184	263	...	82	...	...	...
Goderich	...	...	...	...	100	...	...	...	...	...
Port Colborne	...	6,706	624	7,330	...	...	...	...	...	...
Midland	...	204	...	204	...	...	[illegible]	...	...	...
Tiffin	...	767	...	767	...	63	95	...	...	...
Owen Sound	...	807	...	807	...	...	...	...	...	...
Sarnia	...	598	...	598	...	...	...	...	...	...
Total Canada	53	9,816	679	10,548	533	63	670	...	...	...
Grand totals	31,220	27,761	4,312	63,293	634	1,757	7,101	1,871	6,312	6,478
Totals, 1929	30,029	28,966	7,728	66,722	380	2,063	3,309	4,936	14,803	3,621
Totals, 1928	38,744	47,508	6,526	92,778	839	487	2,923	12,619	29,136	5,919
Totals, 1927	45,893	36,906	11,474	94,274	767	...	7,643	31,378	22,616	8,062

Duluth-Superior—Lake Shipments

Lake shipments of grain from Duluth-Superior, by calendar years, in bushels (000's omitted):

DOMESTIC GRAIN

	Wheat	Corn	Oats	Rye	B'l'y	Fl'x'd
1930	[illegible]	[illegible]	7,101	1,871	[illegible]	[illegible]
1929	66,722	2,063	3,309	4,936	14,803	[illegible]
1928	92,778	487	2,923	12,619	[illegible]	[illegible]
1927	94,274	...	7,644	31,378	[illegible]	[illegible]
1926	42,827	...	9,881	8,493	4,865	4,089
1925	66,166	652	25,135	12,196	14,922	7,334
1924	86,914	8,105	11,030	41,702	11,660	13,619
1923	38,264	1,480	2,017	17,063	3,575	[illegible]
1922	46,608	13,576	8,232	36,757	4,091	[illegible]
1921	44,142	5,066	3,482	4,741	12,158	[illegible]
1920	32,138	...	310	23,009	3,234	[illegible]
1919	21,310	...	294	12,635	6,306	765
1918	59,117	46	1,778	7,295	3,530	[illegible]
1917	20,881	...	1,364	3,691	7,687	3,524
1916	36,812	...	2,833	2,430	8,826	6,741
1915	83,982	3,029	7,487	3,803	[illegible]	3,998
1914	57,924	743	4,904	4,304	10,681	5,674
1913	63,570	479	8,298	1,097	12,218	12,737
1912	50,908	8	5,365	1,752	9,599	11,411
1911	24,423	1,686	3,021	585	5,805	4,342
1910	26,676	655	4,752	348	9,814	3,097
1909	47,747	1,044	3,670	431	9,214	9,836
1908	48,961	...	3,610	798	8,118	15,670
1907	48,762	104	2,901	564	8,090	17,463
1906	38,256	162	11,368	496	9,572	21,503

BONDED GRAIN

	Wheat	Oats	Barley	Fl'x's'd	Rye
1930	634	...	155	...	[illegible]
1929	480	...	163	...	...
1928	839	...	528	...	...
1927	787	[illegible]	419	...	63
1926	1,257	215	771	36	143
1925	1,689	328	1,000	[illegible]	[illegible]
1924	1,319	127	641	...	[illegible]
1923	1,045	223	383	...	190
1922	1,820	...	42	...	40
1921	914	...	53	...	...
1920	512	...	...	...	...
1919	480	...	226	...	...
1918	624	...	18	...	...
1917	6,578	3,971	...	207	...
1916	6,968	363	92	...	...
1915	3,070	43	104	...	...
1914	3,566	2,603	213	1,109	...
1913	7,404	1,764	931	3,644	...
1912	11,827	4,191	542	164	...
1911	2,467	386	...	39	...
1910	2,193	148	67	25	...
1909	3,182	296	203	[illegible]	...

Duluth—Wheat Movement by Type

Receipts and shipments of domestic wheat at Duluth, according to varieties, by calendar years, in bushels (000's omitted):

RECEIPTS

	Spring	Winter	Durum	Totals
1930	36,097	33,901	2,760	72,758
1929	33,653	11,126	34,165	[illegible]
1928	44,901	6,345	59,634	[illegible]
1927	54,489	11,664	44,697	110,651
1926	21,469	4,559	24,520	50,548
1925	41,448	261	32,166	[illegible]
1924	58,739	3,532	36,694	[illegible]
1923	13,065	652	34,356	48,073
1922	13,702	663	39,726	54,091
1921	16,369	4,394	33,658	53,411
1920	11,795	1,108	28,985	41,888
1919	9,767	1,583	10,004	21,354
1918	53,816	3,365	20,788	77,969
1917	*11,936	848	8,195	20,979
1916	*19,447	5,183	14,670	39,300
1915	*40,322	4,181	15,839	60,342
1914	*57,913	4,136	29,049	[illegible]
1913	*55,071	3,403	14,230	72,704
1912	56,317	1,231	13,183	[illegible]
1911	27,813	606	3,805	32,224
1910	21,433	644	10,209	32,285
1909	33,064	70	19,733	52,867
1908	27,595	174	26,122	53,891
1907	28,378	201	26,721	[illegible]
1906	26,501	31	16,026	[illegible]
1905	23,195	167	7,824	31,187
1904	24,607	321	1,707	26,635
1903	27,689	253	1,149	29,091
1902	39,255	25	145	39,425

SHIPMENTS

	Spring	Winter	Durum	Totals
1930	32,385	30,682	5,228	68,295
1929	32,093	7,985	32,876	72,954
1928	40,072	6,671	50,593	97,336
1927	47,888	12,207	39,566	99,662
1926	19,645	2,662	25,311	47,609
1925	43,949	214	27,894	72,057
1924	54,013	3,015	34,821	91,849
1923	10,290	497	30,675	41,462
1922	11,531	403	37,381	49,315
1921	13,305	4,002	32,308	49,615
1920	9,724	558	29,991	40,273
1919	17,929	2,108	12,453	32,493
1918	43,516	1,904	14,896	60,376
1917	*13,805	1,189	7,840	22,834
1916	*17,375	4,566	15,834	37,775
1915	*52,507	3,732	26,701	87,940
1914	*38,308	3,013	16,305	58,228
1913	*47,789	2,409	13,275	63,473

*Includes western wheat.

Buffalo—Canadian Grain Receipts

Receipts of Canadian grain at Buffalo, N. Y., by calendar years, in bushels (000's omitted):

	Wheat	Oats	Barley	Flaxseed
1930	88,832	646	1,715	935
1929	79,782	675	9,813	23
1928	154,110	2,854	23,136	1,209
1927	118,933	1,883	13,734	689
1926	110,172	1,509	16,086	1,407
1925	116,866	8,150	18,154	3,008
1924	82,951	12,235	12,951	1,910
1923	102,507	5,133	4,623	1,789
1922	107,869	7,170	4,984	1,003
1921	68,357	4,737	2,116	1,457
1920	12,402	...	107	62
1919	3,148	2,376	474	[illegible]
1917	70,073	19,263	2,212	4,050
1916	102,763	19,130	3,045	4,014
1915	83,164	3,076	1,384	1,101
1914	23,313	3,057	1,100	5,700
1913	51,089	11,134	3,615	10,639
1912	42,670	4,234	1,905	4,563
1911	32,248	1,305	915	512
1910	18,169	1,007	624	2,547
1909	18,176	1,219	689	1,834

Indianapolis—Grain Movement

Receipts and shipments of grain at Indianapolis, Ind., by calendar years, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye
1930	5,390	24,777	10,978	[illegible]
1929	5,653	23,301	11,990	98
1928	4,600	26,114	12,638	64
1926	5,405	16,736	8,558	92
1925	4,528	18,838	9,016	66
1924	5,065	18,582	11,802	272
1923	6,131	17,975	12,080	383
1922	3,301	21,274	9,893	703
1921	4,223	18,961	14,928	513
1920	4,389	20,687	17,174	403
1919	7,620	19,480	11,811	380
1918	6,729	21,566	17,810	856
1917	3,489	21,123	17,937	310
1916	3,292	25,166	14,596	126
1915	4,026	16,114	8,839	205
1914	2,676	14,437	5,565	16
1913	2,281	15,500	5,816	40
1912	2,488	15,516	6,260	27
1911	3,898	11,869	4,731	12
1910	4,709	7,612	3,752	48

SHIPMENTS

	Wheat	Corn	Oats	Rye
1930	4,573	18,861	10,242	119
1929	3,520	19,705	11,374	65
1928	[illegible]	20,303	10,760	44
1926	2,627	12,082	7,956	55
1925	[illegible]	14,527	7,818	133
1924	[illegible]	14,027	10,035	159
1923	3,927	12,524	10,670	331
1922	1,538	13,558	7,659	368
1921	2,676	12,621	13,014	477
1920	3,332	15,451	16,302	394
1919	[illegible]	11,775	8,197	301
1918	[illegible]	9,706	10,425	441
1917	1,420	12,629	12,438	268
1916	1,076	12,689	10,371	124
1915	1,304	5,923	3,677	73
1914	[illegible]	4,148	2,541	...
1913	600	3,620	1,901	15
1912	592	4,008	2,351	...
1911	2,578	3,192	1,550	176
1910	2,094	6,336	2,048	12

Toledo—Grain Movement

Receipts and shipments at Toledo, Ohio, by calendar years, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye	Barley
1930	12,788	1,203	4,644	66	42
1929	13,889	1,396	5,400	121	116
1928	12,250	1,674	5,106	89	299
1927	16,878	3,112	8,336	225	83
1926	12,116	4,636	6,949	257	44
1925	9,262	3,381	9,263	142	46
1924	13,311	4,066	6,807	916	40
1923	14,980	3,126	3,968	1,074	59
1922	9,680	4,093	3,767	847	29
1921	7,189	3,303	5,785	778	41
1920	6,034	2,231	4,797	772	45
1919	8,210	1,431	5,465	1,375	123
1918	5,514	2,645	8,880	405	98
1917	5,443	2,228	3,721	124	15
1916	6,593	3,962	4,359	135	19
1915	9,551	4,133	6,342	118	143
1914	6,857	4,310	3,586	104	40
1913	5,587	4,448	4,604	83	11

SHIPMENTS

	Wheat	Corn	Oats	Rye	Barley
1930	3,053	63	4,669	42	6
1929	4,473	127	2,199	64	39
1928	6,318	471	2,250	26	42
1927	7,566	1,066	4,947	160	13
1926	3,837	2,702	4,261	142	...
1925	3,957	1,718	7,794	149	3
1924	5,830	1,616	2,524	1,050	...
1923	7,026	1,048	2,650	584	...
1922	4,007	1,825	1,657	628	...
1921	2,489	2,478	3,718	637	4
1920	1,821	966	3,355	952	7
1919	2,220	608	4,141	998	69
1918	1,127	998	6,224	233	203
1917	1,939	1,056	2,365	100	...
1916	3,212	1,013	2,970	118	...
1915	6,463	2,166	5,622	129	138
1914	4,241	2,317	2,469	116	...
1913	2,816	2,010	3,472	61	1

Seattle—Grain Receipts

Receipts of grain at Seattle, Wash., in cars, by calendar years:

	Wheat	Oats	Barley	Corn	Rye
1930	8,657	317	147	1,138	31
1929	9,690	369	328	1,301	25
1928	12,286	362	312	1,206	65
1927	12,773	365	264	1,044	[illegible]
1926	10,139	352	289	1,089	82
1925	7,812	542	392	902	40
1924	9,579	493	462	969	45
1923	9,731	538	243	1,457	105
1922	9,363	442	[illegible]	1,725	77
1921	6,604	595	194	1,022	53
1920	5,088	944	261	540	...
1919	5,232	638	242	388	[illegible]

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BUFFALO—RECEIPTS BY LAKE

Receipts of flour and grain at Buffalo, N. Y., by lake, by calendar years (000's omitted):

Year—	Flour, bbls	Wheat (Bushels)	Corn	Oats	Barley	Rye	Flaxseed
1930	....	118,155	10,152	6,880	6,651	1,668	5,999
1929	....	138,189	9,996	5,538	15,151	1,328	[illegible]
1928	....	210,591	10,036	9,951	35,688	7,724	5,654
1927	....	188,451	11,648	10,778	28,991	11,439	6,403
1926	....	156,113	7,705	15,783	19,382	6,947	4,012
1925	4,833	179,948	[illegible]	32,993	31,569	7,103	8,467
1924	5,459	180,276	[illegible]	27,670	25,294	20,555	14,291
1923	7,172	133,622	7,836	10,322	8,734	14,948	6,139
1922	6,697	163,504	32,784	26,258	8,788	28,024	2,989
1921	6,613	134,610	40,050	23,478	7,660	8,255	6,301
1920	4,510	74,396	3,827	5,152	4,469	16,676	1,627
1919	5,156	56,395	50	14,208	9,986	12,989	[illegible]
1918	6,608	68,257	2,028	13,544	3,245	7,932	2,959
1917	5,022	94,924	1,495	30,283	10,271	3,469	6,594
1916	6,597	138,669	3,572	22,036	11,709	1,477	9,564
1915	8,429	166,670	17,282	10,970	13,513	3,788	4,037
1914	9,101	100,443	14,309	11,859	13,229	4,269	10,127
1913	9,481	114,129	18,960	20,517	17,456	1,076	20,307
1912	7,584	108,225	12,750	10,580	12,176	1,250	14,810
1911	7,054	67,495	30,384	9,501	9,349	690	4,601
1910	7,231	50,450	22,992	12,366	11,207	336	4,716
1909	7,896	61,084	16,027	13,110	12,765	655	[illegible]
1908	7,818	63,857	13,800	10,456	11,649	857	13,647
1907	9,760	66,658	28,478	11,273	11,264	1,313	13,453
1906	10,279	55,545	25,976	23,951	13,681	1,244	15,699
1905	10,201	40,437	32,745	25,733	14,618	658	[illegible]

KANSAS CITY—WHEAT RECEIPTS

Receipts of wheat by grades, in Kansas City, from July 1, 1929, to June 30, 1930, as reported to E. L. Morris, district federal grain supervisor (in carloads):

Type—	No. 1	No. 2	No. 3	No. 4	No. 5	Sample grade	Total
Dark hard winter	[illegible]	2,790	2,455	1,056	211	121	8,039
Hard winter	[illegible]	20,311	14,842	5,837	2,248	2,146	50,861
Red winter	[illegible]	781	1,086	[illegible]	[illegible]	100	2,315
Mixed	114	730	795	331	154	81	2,205
All other classes	232	164	60	[illegible]	11	[illegible]	521
Totals	7,267	21,776	19,238	7,494	2,696	2,470	63,941
Per cent of total	11.4	35.7	30.1	11.7	[illegible]	3.9	

Total smutty wheat, 7,870 carloads, or 12.3 per cent.

St. Joseph—Grain Movement

Receipts and shipments of wheat, corn and oats at St. Joseph, Mo., by calendar years, in bushels:

RECEIPTS

	Wheat	Corn	Oats
1930	[illegible]	10,385,500	2,348,000
1929	[illegible]	10,323,000	970,000
1928	11,697,000	10,812,000	1,138,000
1927	9,620,800	10,095,000	1,244,000
1926	[illegible]	11,131,500	1,676,000
1925	[illegible]	10,231,500	1,798,000
1924	[illegible]	12,226,500	1,790,000
1923	[illegible]	10,165,000	2,198,000
1922	14,417,200	10,695,000	1,438,000
1921	13,676,600	8,562,000	1,094,000
1920	7,836,800	6,501,000	1,440,000
1919	[illegible]	5,563,500	1,616,000
1918	[illegible]	11,001,000	2,300,000
1917	[illegible]	9,121,500	2,834,000
1916	[illegible]	6,807,000	830,000
1915	[illegible]	5,667,000	604,000
1914	[illegible]	5,838,000	768,000

SHIPMENTS

	Wheat	Corn	Oats
1930	8,841,000	8,431,500	672,000
1929	5,449,600	7,105,500	212,000
1928	[illegible]	8,799,000	272,000
1927	[illegible]	6,691,500	212,000
1926	2,862,000	7,435,500	632,000
1925	3,936,800	7,527,000	904,000
1924	4,923,800	8,637,000	634,000
1923	4,110,400	7,309,000	974,000
1922	6,092,800	7,962,000	898,000
1921	6,729,400	6,100,500	436,000
1920	3,728,200	3,765,000	598,000
1919	[illegible]	3,646,000	946,000
1918	[illegible]	6,376,500	1,212,000
1917	[illegible]	6,339,000	1,494,000

Shipments of flour and feed (including feed grains) from St. Joseph, Mo., by calendar years:

	Flour, bbls	Feed, tons
1930	1,387,520	174,354
1929	[illegible]	225,754
1928	[illegible]	243,866
1927	2,370,101	225,803
1926	2,243,663	211,782
1925	2,006,988	227,011
1924	2,157,225	287,094
1923	1,613,945	237,827
1922	1,867,913	240,238
1921	1,528,310	194,932

Cincinnati—Grain Movement

Receipts and shipments of grain at Cincinnati, Ohio, by calendar years, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye	Barley
1930	3,281	5,290	3,238	255	[illegible]
1929	[illegible]	5,931	2,360	175	143
1928	[illegible]	5,194	3,560	189	200
1927	4,759	4,951	3,706	140	[illegible]
1926	5,190	6,671	3,858	139	39
1925	5,793	5,823	3,872	140	66
1924	7,340	6,372	4,574	219	49
1923	6,318	5,055	4,260	231	[illegible]
1922	[illegible]	4,823	3,486	197	63
1921	3,687	4,935	[illegible]	259	[illegible]
1920	3,395	4,699	5,100	250	96
1919	6,104	3,433	4,074	386	437
1918	8,401	8,593	10,186	[illegible]	712
1917	7,517	8,939	7,073	[illegible]	1,003
1916	7,275	9,199	7,005	660	1,499
1915	7,350	7,831	6,816	702	601

SHIPMENTS

	Wheat	Corn	Oats	Rye	Barley
1930	3,340	4,086	2,984	[illegible]	[illegible]
1929	[illegible]	5,600	2,058	125	66
1928	[illegible]	4,427	2,410	129	[illegible]
1927	3,171	3,651	2,502	[illegible]	[illegible]
1926	4,101	5,471	2,272	[illegible]	...
1925	3,501	4,208	2,182	60	...
1924	4,284	3,504	2,510	141	...
1923	4,404	2,949	2,268	118	...
1922	2,904	2,954	1,802	137	...
1921	2,509	2,820	3,454	183	...
1920	2,643	2,794	2,372	134	...
1919	3,898	2,478	2,138	238	...
1918	6,393	6,199	7,853	321	190
1917	6,152	4,657	5,146	511	118
1916	5,059	3,121	6,021	203	31
1915	5,925	4,919	5,453	[illegible]	33

Minneapolis—Millfeed Shipments

Yearly shipments of millstuffs from Minneapolis, by calendar years, in tons, by roads:

	1930	1929	[illegible]	1927
C., M., St. P. & P.	105,916	116,751	139,910	115,276
C., St. P., M. & O.	256,491	243,199	[illegible]	[illegible]
M. & St. L.	17,806	31,290	35,065	29,115
Great North	25,198	29,014	[illegible]	42,562
North Pacific	28,692	32,193	[illegible]	41,436
Gt. Western	31,982	37,866	55,893	[illegible]
C., B. & Q.	39,291	44,795	59,358	[illegible]
[illegible]	88,026	193,117	111,090	96,991
Rock Island	32,315	39,952	51,654	[illegible]
Minn. Transfer	20,362	18,235	69	[illegible]
Totals	649,922	898,414	773,617	718,422
Receipts	36,761	52,505	51,695	56,437

WHEAT AND CORN MARKETINGS

Department of Agriculture estimates of the percentage of wheat and corn sold by farmers of the United States by months:

WHEAT

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Season
1925-26	14.6	16.6	18.7	[illegible]	8.6	7.0	[illegible]	[illegible]	3.0	3.0	2.9	[illegible]	[illegible]
1926-27	21.8	20.3	13.2	[illegible]	5.8	5.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.5	[illegible]
1927-28	15.4	18.6	19.6	12.6	[illegible]	5.6	[illegible]	[illegible]	[illegible]	2.5	2.5	3.1	[illegible]
1928-29	17.9	18.6	17.0	11.6	7.0	[illegible]	3.8	[illegible]	3.4	[illegible]	[illegible]	[illegible]	[illegible]
1929-30	26.7	[illegible]	13.5	8.1	[illegible]	4.5	3.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CORN

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Season
1926-27	5.7	6.2	[illegible]	10.1	9.1	12.9	[illegible]	10.8	[illegible]	[illegible]	6.1	[illegible]	[illegible]
1927-28	5.1	[illegible]	[illegible]	[illegible]	8.6	[illegible]	[illegible]	[illegible]	8.9	[illegible]	[illegible]	5.1	[illegible]
1928-29	5.8	5.8	[illegible]	[illegible]	[illegible]	16.7	[illegible]	[illegible]	7.4	3.8	4.3	7.3	100.0
1929-30	6.0	7.0	7.6	6.9	[illegible]	13.4	10.9	10.6	[illegible]	[illegible]	6.9	[illegible]	[illegible]

CHICAGO—FIRST ARRIVALS OF NEW GRAIN

Dates of the first arrivals of new grain at Chicago:

Year—	Winter wheat	Spring wheat	Corn	Oats	Rye	Barley
1930	July 2	July 22	Sept. 22	July 14	July 17	July 18
1929	July 8	July 29	[illegible]	July 24	July 30	July 23
1928	June 28	July 31	Oct. 1	July 20	July 21	July 17
1927	June 28	July 29	Oct. 24	July 23	July 21	July 21
1926	June 21	Aug. 2	Oct. 21	July 26	Aug. 3	July 26
1925	June 26	July 23	Oct. 10	July 15	July 23	July 21
1924	July 10	Aug. 12	Oct. 24	July 30	Aug. 6	[illegible]
1923	July 19	Aug. 7	Oct. 13	July 24	July 17	July 24
1922	June 29	July 31	Oct. 13	July 20	July 4	July 21
1921	July 1	July 22	Oct. 10	July 12	July 11	July 19
1920	July 14	[illegible]	Oct. 14	July 24	July 28	Aug. 2
1919	July 7	July 18	Sept. 29	July 15	July 12	July 30
1918	July 6	July 25	Oct. 9	July 16	July 9	July 16

Omaha—Grain Movement

Receipts and shipments of grain at Omaha, Neb., by calendar years, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye	Barley
1930..	44,664	24,369	7,048	784	1,339
1929..	43,186	18,761	8,290	1,904	1,779
1928..	39,420	27,146	7,746	1,463	2,051
1927..	35,747	23,433	7,252	1,526	1,512
1926..	21,724	19,981	7,830	1,009	664
1925..	19,496	16,050	17,258	736	698
1924..	34,234	24,735	16,400	1,186	772
1923..	22,631	23,370	19,112	1,499	1,261
1922..	28,833	31,245	13,056	2,048	891
1921..	30,505	22,912	9,134	1,582	1,216
1920..	24,786	20,277	13,982	1,969	1,162
1919..	23,080	22,292	14,565	1,487	2,647
1918..	18,040	46,688	23,572	1,600	2,663
1917..	13,714	29,882	20,280	871	1,713
1916..	36,831	21,466	14,570	1,163	1,136
1915..	16,587	24,295	11,042	1,076	555
1914..	18,925	30,004	16,960	548	18
1913..	20,313	31,111	16,384	328	436
1912..	16,868	20,536	12,903	183	1,192
1911..	12,124	19,282	9,052	97	4,223
1910..	9,124	23,429	9,942	195	662

SHIPMENTS

	Wheat	Corn	Oats	Rye	Barley
1930..	31,766	24,822	8,020	883	1,582
1929..	32,831	17,879	8,910	2,205	1,730
1928..	23,556	31,101	8,826	1,672	2,094
1927..	28,447	19,835	7,864	1,681	1,426
1926..	15,179	15,670	9,842	1,050	610
1925..	16,873	12,871	16,904	769	611
1924..	30,278	25,122	16,950	1,208	762
1923..	16,995	20,959	21,238	1,243	858
1922..	23,553	26,640	13,084	2,162	634
1921..	28,594	20,017	7,052	1,273	997
1920..	23,503	16,570	11,770	1,932	966
1919..	19,896	21,141	14,474	1,372	2,343
1918..	12,668	37,382	22,714	1,127	2,160
1917..	10,192	25,764	19,371	831	1,372
1916..	34,210	18,236	14,148	971	616
1915..	11,408	25,342	11,560	816	96
1914..	16,696	31,927	18,030	512	69
1913..	16,938	26,526	16,173	304	85
1912..	12,180	15,913	14,013	56	318
1911..	8,173	16,459	8,220	50	728
1910..	6,482	19,707	8,098	168	205

Receipts and shipments of grain at Omaha during 1930, by months, in bushels (000's omitted):

RECEIPTS

	Wheat	Corn	Oats	Rye	Barley
January ...	1,073	3,960	442	43	65
February ..	2,157	2,817	626	13	69
March	501	2,096	1,020	7	42
April	979	2,285	742	4	48
May	704	1,099	504	17	70
June	694	1,694	778	17	86
July	14,296	1,233	254	64	60
August ...	14,448	1,660	678	231	317
September..	4,950	1,275	590	230	278
October ...	1,556	1,375	606	80	157
November .	1,314	1,201	196	41	102
December ..	1,962	3,654	310	38	64
	44,664	24,369	7,048	784	1,339

SHIPMENTS

	Wheat	Corn	Oats	Rye	Barley
January ...	2,412	2,667	942	67	123
February ..	1,176	2,538	816	11	83
March	1,204	2,341	1,128	10	80
April	2,530	3,002	904	3	48
May	1,416	3,921	1,102	7	83
June	643	2,197	770	20	136
July	2,897	1,348	348	36	70
August	9,163	1,658	436	217	216
September.	4,008	1,403	462	312	272
October ...	2,390	1,120	492	85	280
November .	2,181	1,061	370	77	122
December ..	1,749	1,567	250	38	62
	31,766	24,822	8,020	883	1,582

Kansas City—Feed Movement

Receipts and shipments of bran and shorts at Kansas City by years, in tons:

	Receipts	Shipments
1930	56,400	225,500
1929	83,380	226,200
1928	65,960	211,680
1927	59,060	163,160
1926	66,920	231,700
1925	47,380	312,020
1924	57,480	272,120
1923	38,960	251,760
1922	44,320	44,432
1921	40,300	178,230
1920	49,480	129,400
1919	52,920	152,240
1918	17,440	88,860
1917	34,900	142,300
1916	32,000	168,920
1915	27,040	154,240
1914	27,680	131,072
1913	10,500	101,140
1912	15,800	49,760
1911	11,080	61,900
1910	11,620	88,940
1909	21,140	96,180
1908	21,000	81,000
1907	16,000	69,000
1906	11,430	45,342

MANUFACTURED FEED

	Shipments, tons
1930	389,880
1929	472,000

Tacoma—Grain Receipts

Receipts of grain at Tacoma, Wash., in cars, by calendar years:

	Wheat	Corn	Oats	Rye	Barley
1930...	8,192	590	102	13	145
1929...	8,082	442	175	762	11
1928...	7,845	665	176	8	210
1927...	7,310	620	95	9	204
1926...	6,377	337	162	675	9
1925...	4,917	371	278	42	184
1924...	5,921	415	280	17	378
1923...	8,469	492	254	38	139
1922...	7,344	414	207	10	40
1921..	10,080	177	212	9	90
1920...	6,969	198	125	11	98
1919...	6,662	166	218	4	96
1918...	6,322	204	262	26	68

PHILADELPHIA—GRAIN AND FLOUR MOVEMENT

Receipts and shipments of grain and flour at Philadelphia, by calendar years (000's omitted):

RECEIPTS

	Wheat, bus	Flour, bbls	Corn, bus	Oats, bus	Barley, bus	Rye, bus
1930	3,048	2,080	340	641	89	49
1929	8,284	1,894	1,353	1,323	704	21
1928	11,133	1,974	2,102	1,390	1,803	424
1927	20,609	2,194	722	1,302	1,214	436
1926	19,287	2,213	1,051	2,802	1,068	443
1925	33,194	2,521	1,391	7,290	1,240	1,473
1924	31,383	2,612	2,605	2,500	834	1,850
1923	34,358	3,318	6,343	3,760	167	726
1922	49,347	3,153	14,913	4,383	139	2,237
1921	36,069	2,995	11,771	2,779	51	1,304
1920	26,204	2,622	2,133	3,336	130	2,546
1919	33,858	4,048	1,448	11,728	2,459	7,971
1918	20,921	2,749	3,012	14,050	344	1,337
1917	31,286	1,872	4,034	18,976	151	1,206
1916	42,903	2,121	4,828	13,643	1,155	385
1915	34,861	2,291	3,904	18,745	668	1,285
1914	22,609	2,415	2,640	10,919	682	480
1913	22,649	2,288	3,421	9,233	648	107

SHIPMENTS

	Wheat, bus	Flour, bbls	Corn, bus	Oats, bus	Barley, bus	Rye, bus
1930	5,331	68	..	..	3	22
1929	6,333	75	1,304	315	909	...
1928	10,340	112	1,041	375	1,533	413
1927	17,373	237	68	64	1,239	411
1926	19,363	298	723	1,787	1,035	469
1925	32,660	389	712	5,565	1,269	1,474
1924	25,764	391	1,711	893	597	1,430
1923	31,190	640	4,373	718	148	648
1922	33,960	580	12,460	1,313	10	2,326
1921	28,056	682	9,909	....	22	1,098
1920	21,745	2,876	672	30	183	2,323
1919	31,416	2,875	484	7,766	2,503	7,816
1918	17,864	*...	1,742	8,997	671	335
1917	29,198	*...	2,693	12,466	50	1,186
1916	38,088	1,377	3,047	7,113	1,230	368
1915	30,838	1,150	1,875	9,989	669	1,223
1914	18,862	1,096	303	2,441	631	470
1913	20,162	1,195	1,784	....	....	79

*Figures not given out, by request of the government.

FORT WORTH—RECEIPTS AND SHIPMENTS

The following tables show receipts and shipments, in carloads, of all principal grains and hay at Fort Worth, Texas, by calendar years:

RECEIPTS

	Wheat	Corn	Oats	Barley	Milo	Kafir	Hay
1930	14,700	2,621	1,187	435	931	902	602
1929	20,402	2,945	1,193	871	1,877	2,091	772
1928	12,172	3,444	1,392	433	2,105	1,823	826
1927	13,752	2,837	2,022	757	2,332	1,348	394
1926	15,585	2,119	2,180	295	1,204	679	990
1925	6,795	2,943	2,919	210	818	462	2,388
1924	13,410	2,458	2,171	732	929	372	1,828
1923	6,164	1,813	1,634	428	289	118	1,584
1922	8,717	1,746	890	141	406	262	1,720
1921	6,615	1,590	1,125	87	383	273	660

SHIPMENTS

	Wheat	Corn	Oats	Barley	Milo	Kafir	Hay
1930	4,891	514	258	160	255	423	4
1929	6,672	630	151	133	774	734	23
1928	5,793	550	324	120	993	762	31
1927	3,990	1,145	1,051	384	780	482	8
1926	4,667	636	772	134	621	302	18
1925	3,283	1,141	819	81	195	185	29
1924	4,567	462	694	240	161	72	36
1923	3,073	495	465	61	79	16	25
1922	4,324	445	361	32	107	66	5
1921	2,429	432	720	18	116	65	8

UNITED STATES—DOCKAGE IN WHEAT RECEIPTS

A table, prepared by the United States Department of Agriculture, showing the dockage by crop years for all wheat receipts, based on the total of final supervised inspections for each class:

1929 CROP

Per cent of dockage§	Hard red spring No.	Hard red spring Per ct. dockage	Durum No.	Durum Per ct. dockage	Hard red winter No.	Hard red winter Per ct. dockage	Soft red winter No.	Soft red winter Per ct. dockage	White No.	White Per ct. dockage	Mixed No.	Mixed Per ct. dockage
0	3,474	22.7	1,158	18.7	25,949	83.8	8,695	89.9	4,046	54.9	2,092	51.0
1	5,196	34.0	1,300	21.0	3,798	12.2	645	6.7	2,216	30.0	1,020	24.9
2	3,094	20.2	1,077	17.4	754	2.4	160	1.7	672	9.1	474	11.6
3	1,627	10.7	885	14.3	232	.8	75	.8	223	3.0	209	5.1
4	860	6.0	713	11.5	94	.3	45	.5	79	1.1	114	2.8
5	480	3.2	458	7.4	63	.2	23	.2	50	.7	72	1.8
6	253	1.7	277	4.5	26	.1	8	.1	32	.4	41	1.0
7	150	1.0	160	2.6	22	.1	5	.1	19	.3	30	.7
8	56	.3	71	1.2	10	.1	1	..	6	.1	14	.3
9	35	.2	35	.6	7	..	2	..	7	.1	10	.2
10	26	.2	18	.3	5	..	3	..	3	..	2	..
11	9	.1	14	.2	6	..	4	..	4	.1	5	.1
12	7	.1	7	.1	9	..	2	..	3	..	3	.1
13	5	..	3	.1	1	..	..	..	3	..	3	.1
14	1	..	..	..	3	..	1	..	2	..	1	..
15	1	..	2	.1	2	..	..	..	2	..	1	..
16	..	..	..	..	2	..	..	..	..	..	1	..
17	1	..	..	..	1	..	..	..	..	..	1	..
18	..	..	1	..	..	..	..	..	..	..	..	..
19	1	..	..	..	..	..	..	..	..	..	..	..
20-29	1	..	1	..	3	..	1	..	..	..	1	..
30-39	..	..	..	..	..	..	..	..	..	..	1	..
Totals†.....	15,280		6,180		30,987		9,670		7,367		4,095	

§On inspection certificate. †Supervised car lots.

1928 CROP

Per cent of dockage§	Hard red spring No.	Hard red spring Per ct. dockage	Durum No.	Durum Per ct. dockage	Hard red winter No.	Hard red winter Per ct. dockage	Soft red winter No.	Soft red winter Per ct. dockage	White No.	White Per ct. dockage	Mixed No.	Mixed Per ct. dockage
0	5,089	21.6	734	7.1	27,893	85.1	6,736	87.7	2,914	49.2	2,942	33.8
1	5,169	22.0	1,263	12.2	3,612	11.0	698	9.1	1,966	33.2	1,243	14.3
2	3,218	13.7	1,229	11.9	705	2.2	138	1.8	570	9.6	758	8.7
3	2,456	10.4	1,219	11.8	240	.7	67	.9	180	3.0	657	7.6
4	1,992	8.5	1,064	10.3	124	.4	18	.2	100	1.7	614	7.1
5	1,662	7.0	1,071	10.4	72	.2	7	.1	51	.9	559	6.4
6	1,213	5.2	979	9.6	63	.2	8	.1	26	.4	479	5.5
7	908	3.9	847	8.2	25	.1	5	.1	22	.4	398	4.6
8	678	2.9	589	5.7	26	.1	4	.1	19	.3	328	3.8
9	416	1.8	418	4.1	15	..	2	..	9	.2	195	2.2
10	277	1.2	293	2.8	5	..	1	..	6	.1	171	2.0
11	153	.6	188	1.8	4	..	..	..	5	.1	121	1.4
12	112	.5	146	1.4	3	..	..	..	6	.1	73	.8
13	79	.3	99	.9	1	..	1	..	11	.2	56	.6
14	39	.2	64	.6	..	..	..	..	8	.1	45	.5
15	34	.1	38	.4	1	..	..	..	5	.1	16	.2
16	27	.1	34	.3	1	..	..	..	1	..	8	.1
17	14	.1	17	.2	..	..	..	..	4	.1	10	.1
18	7	..	10	.1	1	..	..	..	6	.1	4	.1
19	4	..	10	.1	..	..	..	..	3	.1	2	..
20-29	9	..	22	.2	4	..	..	..	4	.1	12	.1
30-39	..	..	1	..	1	..	..	..	2	..	1	..
40-49	..	..	..	..	..	..	..	..	..	..	1	..
Totals†.....	23,546		10,316		32,786		7,678		5,917		8,695	

§On inspection certificate. †Supervised car lots.

Portland (Oregon)—Wheat and Flour Movement

Receipts and shipments of wheat and flour at Portland, Oregon, by calendar years, as reported by the Portland Merchants' Exchange:

RECEIPTS

	Wheat, bus	Flour, bbls
1930	29,759,800	1,122,420
1929	28,776,460	1,084,500
1928	37,647,400	1,046,800
1927	47,288,860	1,232,840
1926	42,247,800	947,700
1925	19,273,822	760,637
1924	30,940,248	682,616
1923	28,773,900	876,240
1922	32,586,503	671,300
1921	48,954,500	799,078
1920	22,372,800	772,800
1919	10,278,900	1,584,525
1918	7,789,600	992,862
1917	8,846,400	460,800
1916	6,871,800	782,800
1915	17,759,300	566,400

SHIPMENTS, FOREIGN PORTS

	Wheat, bus	Flour, bbls
1930	19,855,713	772,337
1929	20,495,294	835,343
1928	22,516,014	634,296
1927	36,053,336	699,864
1926	32,119,091	691,245
1925	7,252,402	638,461
1924	20,426,482	1,324,876
1923	17,732,996	1,515,973
1922	23,601,765	1,102,614
1921	37,100,731	1,482,227
1920	12,709,418	2,387,116
1919	2,011,273	2,766,440
1918	....	1,567,936
1917	1,760,000	97,980
1916	2,031,000	85,903
1915	10,670,000	365,965

SHIPMENTS, DOMESTIC PORTS

	Wheat, bus	Flour, bbls
1930	1,678,221	1,167,219
1929	286,210	1,336,871
1928	668,688	1,428,380
1927	739,398	1,035,091
1926	979,370	1,055,897
1925	2,644,901	1,071,223
1924	2,520,729	918,371
1923	1,051,526	638,064
1922	45,125	550,707
1921	218,463	528,863
1920	16,411	207,258
1919	98,600	170,171
1918	1,009	138,051
1917	772,000	488,233
1916	1,763,000	600,746
1915	3,185,000	641,231

Portland (Oregon)—Grain Receipts

Receipts of grain at Portland, Oregon, by calendar years, in carloads, as reported by the Portland Merchants' Exchange:

	Wheat	Oats	Barley	Corn
1930....	20,524	602	196	1,115
1929....	20,194	634	245	1,448
1928....	23,891	592	164	1,273
1927....	32,613	861	306	1,289
1926....	30,177	743	164	1,631
1925....	14,277	891	385	705
1924....	22,584	647	559	544
1923....	21,035	756	319	665
1922....	21,591	811	516	722
1921....	32,423	873	278	604
1920....	13,380	566	212	430
1919....	7,082	612	475	190

Buffalo—Shipments by Erie Canal

Shipments from Buffalo, N. Y., via the Erie Canal, by calendar years (000's omitted):

	Flour, bbls	Wheat, bushels	Oats, bushels	Barley, bushels	Rye, bushels
1930.....	...	38,671	...	...	53
1929.....	...	19,785	116	6,503	[illegible]
1928.....	...	31,561	...	5,825	[illegible]
1927.....	...	17,410	775	7,359	1,140
1926.....	...	15,830	901	8,053	1,525
1925.....	...	18,902	2,411	9,464	5,052
1924.....	46	13,761	1,238	2,051	6,204
1923.....	...	9,731	389	1,438	8,652
1922.....	...	11,198	946	2,300	2,654
1921.....	12	7,415	2,217	1,214	[illegible]
1920.....	153	1,937	[illegible]	367	1,733
1919.....	40	534	683	611	1,976
1918.....	211	1,908	25	70	...
1917.....	...	563	...	478	...
1916.....	...	2,221	1,141	2,261	...
1915.....	...	3,108	2,520	2,401	[illegible]
1914.....	...	3,085	4,139	2,060	[illegible]
1913.....	...	2,928	3,357	2,233	[illegible]

Duluth-Superior—Lake Flour Shipments

Lake shipments of flour from Duluth-Superior railroad warehouses for the past six years, in barrels (000's omitted):

	1930	1929	1928	1927	1926	1925
April	...	167	95	388	...	35
May	502	452	462	527	559	517
June	139	563	515	420	550	[illegible]
July	403	357	334	584	604	[illegible]
August	648	584	509	530	655	[illegible]
September..	588	498	757	545	785	[illegible]
October	562	567	616	871	1,044	873
November .	941	820	739	661	[illegible]	[illegible]
December .	63	176	207	328	346	526
Totals ..	4,146	4,174	4,234	4,854	5,346	5,215

Note: Mill lake shipments not included in above table.

Philippine Islands—Corn Crop

Corn crop of the Philippine Islands by calendar years, in bushels:

1929......	13,999,367	1921......	16,734,000
1928......	16,735,905	1920......	15,690,000
1927......	19,112,226	1919......	[illegible]
1926......	18,005,036	1918......	[illegible]
1925......	17,486,825	1917......	[illegible]
1924......	17,848,432	1916......	[illegible]
1923......	17,876,000	1915......	[illegible]
1922......	14,651,000		

STORAGE CAPACITY OF GRAIN ELEVATORS AT IMPORTANT CENTERS

A Section Devoted to Statistics Giving Details of the Grain Storing Capacity of Elevators at Various Important Milling and Grain Forwarding Centers of the United States and Canada

Elevators at Centers

Number and estimated capacity of elevators at leading United States and Canadian grain storage centers, Jan. 1, 1931:

	No. of elevators	Capacity, bus
Minneapolis, Minn.	66	82,223,000
Chicago, Ill.	57	52,664,000
Duluth, Minn.	33	53,025,000
New York, N. Y.	10	5,605,000
Buffalo, N. Y.	38	47,393,000
Kansas City, Mo.	43	48,192,000
Detroit, Mich.	6	1,175,000
Indianapolis, Ind.	10	5,065,000
Toledo, Ohio	12	7,920,000
Cleveland, Ohio	6	450,000
Cincinnati, Ohio	17	2,616,385
St. Louis, Mo.	36	11,619,500
New Orleans, La.	6	‖5,820,000
San Francisco, Cal	14	*312,000
Vallejo, Cal.	1	*30,000
Stockton, Cal.	6	*104,000
Seattle, Wash.	8	§ 4,620,000 ‖ 12,055,000
Portland, Oregon	21	*231,400
Tacoma, Wash.	†	2,369,500
Baltimore, Md.	5	12,600,000
Boston, Mass.	3	2,500,000
Omaha, Neb.	}	
Council Bluffs, Iowa	§ 18	20,750,000
St. Joseph, Mo.	13	10,352,000
Milwaukee, Wis.	19	15,990,000
Philadelphia, Pa.	3	4,975,000
Galveston, Texas	4	8,365,000
Nashville, Tenn.	13	3,066,000
Memphis, Tenn.	12	1,485,000
Norfolk, Va.	}	
Newport News, Va.	‖ 3	1,325,000
Fort Worth, Texas	17	12,325,000
Evansville, Ind.	4	1,545,000

CANADA

Fort William and Port Arthur, Ont.	86,747,000
Montreal, Que.	16,312,000
Port Colborne, Ont.	5,250,000
Port McNicoll, Ont.	6,500,000
Vancouver, B. C.	15,165,000
West St. John, N. B.	1,700,000
Tiffin, Ont.	5,500,000
Depot Harbor, Ont.	1,650,000
Goderich, Ont.	3,600,000
Midland, Ont.	8,000,000
Halifax, N. S.	2,100,000
Quebec, Que.	4,000,000
Toronto, Ont.	2,000,000

*Capacity in tons for sacked grain. †Capacity for sacked grain. §Jan. 1, 1930.

Canada—Licensed Elevators

Number and capacity of elevators in Canada which handle grain, summarized by provinces, season 1929-30:

Province—	Station	Elevators	Capacity
Manitoba—			
Country	383	743	24,130,400
Int. private terminal.	3	1	4,070,000
Manufacturing	1	5	1,362,000
	387	762	29,562,400
Saskatchewan—			
Country	1,067	3,198	104,006,050
Int. public terminal.	..	2	7,000,000
Private elevators	1	4	4,310,550
Mfg. elevators	1	3	58,000
	1,069	3,207	115,374,600
Alberta—			
Country	569	1,707	64,647,000
Manufacturing	2	3	710,000
Int. public terminal.	..	2	5,000,000
Private elevators	..	15	3,603,000
	571	1,727	73,960,000
British Columbia—			
Country	2	2	35,000
Public terminal	1	3	3,100,000
Private terminal	1	10	14,492,000
Manufacturing	3	11	826,000
	6	25	18,453,000
Ontario—			
Country	..	1	40,000
Manufacturing	..	2	126,000
Public terminal	..	5	29,867,210
Private terminal	4	30	58,630,000
Public elevators, eastern division	11	16	41,900,000
	15	54	130,632,210
Public elevators—			
Quebec	3	8	22,312,000
New Brunswick	2	3	2,200,000
Nova Scotia	1	1	2,100,000
	6	12	26,612,000
Grand totals	2,054	5,787	394,594,210

Vancouver—Elevators

Terminal grain elevators at Vancouver, B. C., with capacities, in bushels:

Alberta Pool Elevators, Ltd., No. 1	5,150,000
Alberta Pool Elevators, Ltd., No. 2	1,650,000
Burrard Elevator Co., Ltd.	1,630,000
Columbia Elevator Co.	150,000
Midland Pacific Terminals, Ltd.	1,500,000
Pacific Terminal Elevator Co., Ltd.	2,100,000
Vancouver Milling & Grain Co., Ltd.	200,000
Vancouver Terminal Co., Ltd.	2,250,000
Atlas Flour Mills, Ltd.	40,000
Brackman-Ker Milling Co.	30,000
Buckerfield's, Ltd.	365,000
McLellan & McCarter, Ltd.	30,000
Pacific Milling & Grain Co., Ltd.	25,000
United Distillers, Ltd.	35,000
Marpole Grain Co.	10,000
	15,165,000

Chicago—Private Elevators

Grain warehouses in the Chicago district, except those declared "regular" under the rules of the Chicago Board of Trade, Jan. 2, 1930, with capacities:

Operated by—	Bus
American Maize Products Co.	100,000
Arcady Farms Milling Co.	150,000
Archer-Daniels-Midland Co.	200,000
J. J. Badenoch Co.	750,000
*Rosenbaum Bros., Inc., Belt	1,500,000
W. J. Byrnes & Co.	35,000
*Rosenbaum Bros.—Calumet A (tanks)	467,000
*Norris Grain Co.—Central A	900,000
†Rosenbaum Grain Corp.— C. & N. W. terminal	5,470,000
Columbia Malting Co.	750,000
Hales & Hunter Co.—Concrete	1,500,000
Corn Products Refining Co.	1,300,000
A. Dickinson Co.	1,250,000
B. A. Eckhart Milling Co.	950,000
*Rosenbaum Grain Corp.— Elevator J	750,000
Fleischmann Malting Co.	325,000
Goist Bros.	30,000
*F. G. Ely—Grand Crossing	100,000
*E. R. Bacon Grain Co.— Grand Trunk	500,000
Hales & Hunter Co.—Hales	1,000,000
J. E. Bartlett Grain Co.	200,000
Hirst & Begley Linseed Co.	75,000
*Norris Grain Co.—Interstate	500,000
*Kensington Grain & Elevator Co.	325,000
†E. R. Bacon Grain Co.—Keystone	650,000
Kirby Bros.	25,000
Klein Bros.	50,000
H. C. Knoke & Co.	146,000
L. Livingston & Co.	15,000
*F. J. Delany—Midwest	400,000
*Central Elevator Co.— New York Central	1,250,000
*Norris Grain Co.— Norris	2,250,000
Northwestern Yeast Co.	150,000
*J. J. Badenoch Co.— Pennsylvania	538,000
Prairie State Milling Co.	250,000
*Star Grain Co.—Rialto	2,500,000
*Donahue-Stratton Co.— Santa Fe	1,350,000
A. Schwill & Co.— Schwill A	800,000
Schwill B	1,250,000
*South Chicago Elevator Co.— South Chicago D	1,000,000
*Norris Grain Co.—Standard	325,000
Star & Crescent Milling Co.	375,000
†Central Elevator Co.— Wabash (part)	950,000
†Spencer Kellogg & Sons, Inc.	250,000
Totals	34,201,000

*Operated under custodian rule of Board of Trade. †Part custodian.

PREVIOUS TOTALS

1930	34,673,000	1924	37,435,000
1929	35,073,000	1923	34,500,000
1928	34,123,000	1922	36,070,000
1927	35,065,000	1921	42,070,000
1926	34,905,000	1920	42,465,000
1925	39,835,000	1919	45,605,000

Chicago—Public Elevators

Regular warehouses for storage of grain under the rules of the Chicago Board of Trade on Jan. 2, 1930, with capacities in bushels:

Rosenbaum Bros.—	
Calumet Elevator A (annex)	1,000,000
Calumet Elevator A (tanks)	533,000
Calumet Elevator C	1,200,000
Chicago Elevator Properties, Inc.— C. & N. W. Railway Terminal Elevator (part of)	4,530,000
Irondale Elevator A	900,000
Edward R. Bacon Grain Co.— Keystone Elevator (part of)	550,000
Rosenbaum Bros., Inc.— National Elevator	750,000
Quincy Elevator Co.— Quincy Elevator	1,350,000
Chicago Elevator Properties, Inc.— Rosenbaum Elevator A	700,000
Rosenbaum Elevator B	1,500,000
St. Paul Elevator A and B	2,000,000
South Chicago Elevator Co.— South Chicago Elevator C and Annex	3,000,000
Central Elevator Co.— Wabash Elevator (part)	550,000
Total capacity	18,463,000

PREVIOUS TOTALS

1930	18,580,000	1924	16,500,000
1929	18,130,000	1923	15,500,000
1928	19,130,000	1922	14,950,000
1927	16,430,000	1921	12,950,000
1926	13,300,000	1920	13,800,000
1925	15,300,000	1919	11,700,000

Indianapolis—Elevators

Name—	Capacity, bus
Acme-Evans Co.	500,000
Berry Grain Co.	200,000
Indiana Elevator Co.	150,000
Cleveland Grain Co.	1,750,000
Early & Daniel Co.	1,000,000
Evans Milling Co.	350,000
Indianapolis Public Elevator Co.	1,000,000
Mid-West Elevator Co.	50,000
Pearl Mills	15,000
Piel Brothers Starch Co.	50,000
Total	5,065,000

Kansas City—Elevators

Kansas City has 43 public and private elevators, with a combined capacity of 48,192,000 bus. Names, with concerns operating, and capacities in bushels:

Alton, Wolcott & Lincoln, Inc.	750,000
Arkady Farm Mills	40,000
Bulte Mills, Kansas Flour Mills Co.	250,000
C. G. W., Great Western Elev. Co.	1,000,000
Corn Products Refining Co.	500,000
Continental Export Co.	*2,500,000
Eagle, H. Lichtig & Co.	250,000
Elevator "A," Davis-Noland-Merrill Grain Co.	6,000,000
Empire Storage & Ice Co.	300,000
Feeders' Supply & Mfg. Co.	15,000
Frisco, Lathrop-Marshall Grain Co.	1,050,000
Globe Mill, Rosedale Milling Co.	50,000
Ismert-Hincke Milling Co.	1,250,000
K. C. S., Moore-Seaver Grain Co.	1,100,000
Kansas Flour Mills Co., North Kansas City	2,315,000
Kansas Elevator, Southwest Cooperative Wheat Growers' Association	1,000,000
Kansas-Missouri, Pacific Elevator Co. (Hall-Baker Grain Co.)	3,000,000
Katy Elevator, Uhlmann Grain Co.	2,300,000
Midland Flour Milling Co.	400,000
Miller-McConnell	50,000
Milwaukee, Simonds-Shields-Lonsdale Grain Co.	2,900,000
Monarch Milling Co.	1,100,000
Moore-Lowry Flour Mills Co.	400,000
Murray, Norris Grain Co.	2,500,000
Norris Elevator, Norris Grain Co.	1,300,000
Nutrena Feed Mills Co.	50,000
Quisenberry Feed Mfg. Co.	10,000
Ralston-Purina Co.	800,000
Ransom Coal & Grain Co.	32,000
Rodney Milling Co.	450,000
Rosedale, Martin Commission Co.	200,000
Rock Island, Simonds-Shields-Lonsdale Grain Co.	2,500,000
Rudy Patrick Seed Co.	300,000
Southard Feed & Milling Co.	150,000
Southland Cottonseed Products Co. (old Zenith mill)	50,000
Southwestern Milling Co., Inc.	750,000
Staley Milling Co.	50,000
U. S. Mills Co.	30,000
Wabash, Uhlmann Grain Co.	3,100,000
Waggoner-Gates Milling Co. (Independence, Mo.)	350,000
Washburn Crosby Co.	4,000,000
L. C. Worth Commission Co.	20,000
Wyandotte Elevator Co.	2,500,000
Total	48,192,000

The above storage is divided as follows: 12 mills, 11,365,000 bus; 14 regular elevators, 29,280,000; 17 private elevators, 7,547,000.

*Under construction.

Buffalo—Elevators

LAKE ELEVATORS

	Capacity, bus
Nisbet	3,000,000
Concrete, Central	4,000,000
Superior	3,700,000
Dellwood	1,700,000
Electric	1,600,000
American Elevator & Warehouse	2,250,000
Seneca	1,000,000
Mutual	2,500,000
Co-op. G. L. F. Exchange	750,000
Kellogg	1,100,000
Marine "A"	2,100,000
Marine "B"	650,000
Great Eastern	2,500,000
Dakota	1,250,000
Frontier (Washburn Crosby)	4,750,000
Connecting Terminal	1,043,000
Monarch	500,000
Reliance	550,000
Canadian Pool Terminal	2,000,000
Lake-and-Rail Elevator	4,900,000
Total, 20 elevators	41,843,000

RAIL ELEVATORS

Black Rock Milling Co	750,000
Eastern States Co-op. Milling Co.	300,000
Fleischmann (two)	430,000
Hecker-H-O Co.	190,000
Iron Elevator	500,000
Erie Transfer (Globe)	150,000
Meyer Malt & Grain	750,000
Perot Sons	450,000
Ralston Purina	750,000
Buffalo Flour Mills Corporation	90,000
George Urban Milling Co.	150,000
Pratt Food Co.	200,000
Maritime Milling Co.	200,000
Co-op G. L. F. Exchange	350,000
Wollenberg Elevator	35,000
Kreiner & Lehr	100,000
Broadway Milling Co.	50,000
Wayne Feed Mills	100,000
Total, 18 elevators	5,545,000
Grand total, 38 elevators	47,393,000

Tacoma—Grain Storage

Grain storage capacity at Tacoma, Wash., in bushels, according to the Tacoma Merchants' Exchange:

	Bulk	Sacked
Tacoma Grain Co.	700,000	33,000
Sperry Flour Co.	1,000,000	.....
Port of Tacoma	600,000	1,115,000
N. P.—Northwestern dock	66,500	66,000
N. P.—Balfour dock	.....	655,000
P. J. Frantsich & Co.	13,500	366,000
Albers bay warehouse	19,000	466,000
Totals	2,369,500	2,701,000

Minneapolis—Elevators

Public and private elevators of Minneapolis, with owners and capacities:

"REGULAR" ELEVATORS

Name—Operated by—	Capacity, bus
Atlantic—Atlantic Elevator Co.	500,000
Belco No. 1 and No. 2—Union Elevator Co.	1,500,000
Calumet—Hallet & Carey Elev. Co.	1,300,000
Commander—Commander Elev. Co.	2,200,000
Concrete No. 1—Concrete Elev. Co.	1,250,000
Continental—Continental Grain Co.	1,250,000
Crescent—Pioneer Steel Elevator Co.	1,500,000
Delmar—Archer-Daniels-Midland Co.	3,116,000
Electric Steel—Elec. Steel Elev. Co	4,000,000
Empire C—Empire Elevator Co.	1,000,000
Froedtert—Froedtert Grain & Malting Co.	635,000
Gluek Elevator—Stuhr-Seidl Co.	136,000
Great Northern — Archer-Daniels-Midland Co.	1,500,000
Interstate No. 1—Van Dusen Harrington Co.	800,000
K—Sheffield Elevator Co.	2,250,000
L—Cereal Grading Co.	950,000
Marfield—Marfield Grain Co.	1,200,000
Marquette—Gregory-Jennison & Co.	2,100,000
Midway—Concrete Elev. Co.	600,000
Monarch—Monarch Elevator Co.	1,250,000
Pillsbury—Andrews Grain Co.	80,000
Pioneer Steel—Pioneer Steel El. Co.	2,100,000
Republic—Monarch Elevator Co.	1,750,000
St. Anthony No. 1—Central Elevator Co.	1,500,000
St. Anthony No. 3—Central Elevator Co.	2,110,000
Searle—Searle Grain Co.	2,125,000
Shoreham—Osborne-McMillan Elevator Co.	2,200,000
Soo—Bartlett Frazier Co.	2,500,000
Star—Pioneer Steel Elevator Co.	2,000,000
Stewart—Banner Grain Co.	1,000,000
T—Cargill Elevator Co.	3,935,000
Union—Union Elev. Co.	3,300,000
Victoria R—Victoria Elevator Co.	650,000
Total "regular" elevators	*54,590,000

PUBLIC BUT NOT "REGULAR"

Interior—Century Elevator Co.	1,225,000
M—Farmers' Union Terminal Assn	1,300,000
St. Anthony No. 2—The Peavey Co.	300,000
Twin City "A"—Twin City Trading Co.	2,088,000
Wheat Growers—North Dakota-Montana Wheat Growers' Association	150,000
Total public but not "regular"	5,063,000

PRIVATE AND "NONREGULAR" ELEVATORS

Name—Operated by—	Capacity, bus
Archer-Daniels — Archer-Daniels Midland Co.	850,000
Atkinson—Atkinson Milling Co.	300,000
Concrete No. 2—Concrete Elev. Co.	60,000
Consolidated A—Northwestern Consolidated Milling Co.	1,165,000
Erie—Fleischmann Malting Co.	300,000
Fruen—Fruen Milling Co.	35,000
Hiawatha—Hiawatha Grain Co.	50,000
Interior Malt—Interior Malt & Grain Co.	700,000
Interstate No. 2—Van Dusen Harrington Co.	1,000,000
Kellogg A—Spencer Kellogg & Sons, Inc.	725,000
Kellogg B—Spencer Kellogg & Sons, Inc.	1,000,000
Martin Mill—Brooks Elevator Co.	250,000
Midland—Archer-Daniels-Midland Co.	625,000
Midland Concrete—Archer-Daniels-Midland Co.	2,700,000
Nokomis—Minneapolis Milling Co.	500,000
Northern—Archer-Daniels-Midland Co.	40,000
Northern Oats—Northern Oats Co.	225,000
North East Feed—North East Feed Mill Co.	50,000
North Star—Fleischmann Malting Co.	1,250,000
Northrup-King—Northrup-King Co.	165,000
Palisade—Pillsbury Flour Mills Co.	50,000
Pillsbury Concrete—Pillsbury Flour Mills Co.	3,500,000
Pillsbury A—Pillsbury Fl. Mills Co.	490,000
Pillsbury B—Pillsbury Fl. Mills Co.	125,000
Pillsbury Rye — Pillsbury Flour Mills Co.	20,000
Purina—Ralston-Purina Co.	250,000
Spencer Kellogg—Spencer Kellogg & Sons, Inc.	450,000
Washburn Crosby—Washburn Crosby Co., Inc.	5,750,000
Total, private elevators	22,570,000
Grand total	*82,223,000

SUMMARY

	No.	Capacity, bus
Public ("Regular")	33	54,590,000
Public (not "Regular")	5	5,063,000
Private	28	22,570,000
Totals	66	*82,223,000

*In addition there are 10 Duluth-Superior elevators, having a capacity of 38,926,000 bus, which are "regular" under rules of the Minneapolis Chamber of Commerce.

Central States—Private Elevators

Capacity of larger private elevators in central states, in bushels:

OHIO

Akron—Quaker Oats Co.	800,000
Dover—Hardesty Milling Co.	60,000
Cleveland—Cleveland Grain Co.	1,000,000
Cleveland—Fairchild Milling Co.	175,000
Columbus—Gwinn Milling Co.	750,000
Fostoria—Mennel Milling Co.	1,500,000
Fredericktown—Northwestern Elevator & Mill Co.	20,000
Grafton—United Mills Corporation.	250,000
Hamilton—Carr Milling Co.	75,000
Kent—Williams Bros. Co.	115,000
Loudonville — Loudonville Milling Co.	150,000
Mansfield—Cleveland Grain Co.	750,000
Massillon—Buckeye Cereal Co.	50,000
Mt. Vernon—Northwestern Elevator & Mill Co.	150,000
Springfield—Ansted & Burk Co.	350,000
Toledo—National Milling Co.	4,000,000
Toledo—Northwestern Elevator & Mill Co.	250,000
Toledo—Toledo Grain & Milling Co.	200,000
Troy—Allen & Wheeler Co.	225,000
Washington C. H.—Washington Milling Co.	100,000
Ohio total, bus	10,970,000

INDIANA

Evansville—Igleheart Bros.	1,250,000
Evansville—Phoenix Flour Mill	150,000
Evansville—A. Waller & Co.	150,000
Fort Wayne—Maydorr Mills	110,000
Franklin—Suckow Milling Co.	155,000
Grand View—Cadick Milling Co.	200,000
Greensburg—Garland Milling Co.	100,000
Indianapolis—Acme-Evans Co.	500,000
Indianapolis—Cleveland Grain Co.	850,000
Lawrenceburg—Lawrenceburg Roller Mills Co.	700,000
Madison—William Trow Co.	100,000
Monticello—Loughry Bros. Milling & Grain Co.	125,000
Mount Vernon—Fuhrer-Ford Milling Co.	250,000
Mount Vernon—Home Mill & Grain Co.	140,000
New Harmony—Fuhrer-Ford Milling Co.	100,000
Noblesville—Noblesville Milling Co.	750,000
Seymour—Bliss Milling Co.	500,000
Terre Haute—Sparks Milling Co.	200,000
Indiana total, bus	6,330,000
Ohio and Indiana	15,300,000

MICHIGAN

Detroit—Commercial Milling Co.	275,000
Detroit—David Stott Flour Mills	180,000
Grand Rapids—Voigt Milling Co.	50,000
Hillsdale—F. W. Stock & Sons	400,000
Jackson—Heywood Milling Co.	75,000
Monroe—Amendt Milling Co.	145,000
Saginaw—Saginaw Milling Co.	250,000
Michigan total, bus	1,375,000
Ohio, Indiana and Michigan	18,675,000

Cincinnati—Elevators

Storage capacity of elevators and daily grinding capacity of flour and feed mills within the switching limits of Cincinnati, Ohio:

Elevator—	‡Capacity	*Flour	†Feed
Clifton Springs	75,000	...	....
Cincinnati Grain Co.	35,000	...	20
B. H. Wess Grain & Coal Co.	2,000	...	25
Early & Daniel Co.	1,385,000	...	500
Scholl Grain Co.	100,000	...	....
Dorsel Co.	20,000	100	7
Flege Co.	23,000	...	35
H. Nagel & Sons	20,000	250	5
John Mueller Co.	16,000	...	10
Felss Flour Milling Co.	17,000	200	40
Groff	15,000	40	....
Ubiko Milling Co.	360,000	...	600
Union Solvents Corporation	14,000	...	....
Fleischmann Malt. Co.	250,000	...	....
Wiedemann Co.	250,000	...	....
Barney Bunke	4,000	...	....
George Keller	25,000	...	....
Totals	2,616,385	590	1,242

*Daily grinding capacity of flour mills (bbls). †Daily grinding capacity of feed mills (tons). ‡Storage capacity in bushels.

Toledo—Elevators

Name—Operated by—	Capacity, bus
C., H. & D. "B"—Lake Erie Elevator Co. (Norris Grain Co.)	500,000
East Side Iron—East Side Iron Elevator Co.	1,500,000
West Side Iron—Central Grain Co.	200,000
Toledo Grain & Milling Co.	200,000
Imperial Grain & Milling Co.	10,000
Chatterton & Son (beans)	100,000
Sheets Elevator Co.	100,000
Toledo Seed & Oil Co. (flax)	450,000
Kosco Mills, Inc.	200,000
West Toledo Elevator	10,000
National Elevator Co.—National Milling Co.	4,400,000
Northwestern Elevator & Mill Co.	250,000
Total, bus	7,920,000

Cleveland—Elevators

	Capacity, bus
Fairchild Milling Co. (A and B)	125,000
Gates Elevator Co.	65,000
Lake Shore Elevator Co. A	40,000
Lake Shore Elevator Co. B	100,000
Nickel Plate Elevator Co.	20,000
Sheets Elevator Co.	100,000
Total	450,000

St. Louis—Private Elevators

St. Louis has 29 private elevators, with a combined capacity of 5,319,500 bus. Names, with concerns operating, and capacities in bushels, are:

Belt—Langenberg Bros. Grain Co.	200,500
Hezel—Hezel Milling Co.	40,000
Hall—Hall Milling Co.	700,000
Plant's—Plant Flour Mills Co.	350,000
Purina—Purina Mills	200,000
Buss—Annan-Burg Grain & Mig. Co.	40,000
Quinlivan—J. F. Quinlivan & Bro.	20,000
Corno—The Corno Mills Co.	40,000
Granite City—Schultz & Niemeier Com. Co.	50,000
Granite City—Union Starch & Refining Co.	300,000
A. B. B. A.—Anheuser-Busch Brewing Association	1,500,000
Scientific Milling Co.	30,000
Cornell Seed Co.	20,000
Cornell Seed Co.	10,000
Always-A-Head Mills	20,000
Polar Wave Ice & Fuel Co.	2,500
Heinrichsmeyer Feed Co.	30,000
Dixie—Dixie Mills Co.	100,000
Roever—John C. Roever	12,000
Saxony—Saxony Mills	100,000
Valier—Valier & Spies Milling Co.	1,000,000
Security Warehouse—Purina Mills Co.	25,000
Alfocorn—Alfocorn Milling Co.	50,000
Scientific Milling Co.	10,000
Chamberlain—F. B. Chamberlain Co.	20,000
Prunty—Prunty Grain & Seed Co.	50,000
Theiss—Theiss Bros. Feed Co.	40,000
Exchange—Luehrmann Milling & Grain Co.	125,000
Western—Seele Bros. Grain Co.	175,000
Total	5,319,500

Portland, Oregon—Grain Storage

Grain warehouses and tanks at Portland, Oregon, with capacities, in tons:

Albers Dock 1	3,000
Albers No. 2	1,000
Albers No. 3	1,500
Albers Tanks	5,000
Columbia Dock 1	10,000
Mersey Dock	10,000
Crown Mills Dock	15,000
Crown Mills Tanks	10,000
Globe Grain Dock	8,000
Globe Grain Tanks	9,000
Irving Dock	22,000
Albina Dock and Mill	12,000
Pacific Coast Elevator Dock	14,500
North Western Dock and Elevator	26,000
Kerr Gifford Dock	16,000
Kerr Gifford Tanks	15,000
Columbia Milling Co.	3,700
Rose City Milling Co.	1,200
Terminal Elevator	63,000
Terminal Dock 4	45,000
Albina Warehouse Co.	500
Total	291,100

California—Grain Warehouses

Grain warehouses, with capacities, at San Francisco and neighboring points are:

	Capacity, tons
At San Francisco—	
Mission Bay	20,000
Gibraltar	6,000
Battery Street	5,000
Folsom Street	6,000
Humboldt	5,000
Oriental	10,000
Southern Pacific	35,000
Globe	10,000
Harbor	25,000
China Basin	25,000
Islais Creek Grain Terminal	20,000
Albers Bros. Milling Co. at Oakland	25,000
At Port Costa	70,000
Grangers at Eckley	50,000
At South Vallejo—	
Sperry Flour Co.	30,000
At Stockton—	
Delta No. 1	35,000
Sperry Flour Co.	1,000
California Transportation Co.	12,000
California Wharf & W. H. Co.	16,000
Delta No. 2	25,000
Stockton Wharf & Warehouse Co.	5,000
Miscellaneous space	10,000
Total	446,000

Seattle—Grain Storage

Bulk and sacked grain storage capacities at Seattle, in bushels:

	Bulk	Sacked
Port Commission Elevator	1,500,000	.....
Hanford Street Dock	.....	250,000
Bell Street Dock	.....	250,000
West Seattle Grain Elevator	200,000	825,000
Fisher Flouring Mills Co.	2,600,000	200,000
Novelty Mill Co.	.....	40,000
Chas. H. Lilly Co.	220,000	130,000
Albers Bros. Milling Co.	.....	360,000
Totals	4,520,000	2,055,000

Duluth-Superior—Elevators

Companies operating the 33 public and private elevators in Duluth-Superior, with capacities:

	Bus
Consolidated Elevator Co.	11,250,000
Globe Elevator Co.	4,500,000
Great Northern Elevators	13,000,000
Itasca Elevator Co.	2,450,000
Superior Terminal Elevator Co.	4,800,000
Capitol Elevator Co.	4,300,000
Duluth-Superior Milling Co.	850,000
Duluth Universal Milling Co.	25,000
Duluth Peavey Terminal	6,600,000
Kellogg Elevator	750,000
Occident Terminal Co.	4,500,000
Total	53,025,000

EXPORT FLOUR INSURED

ALL RISKS

By THE SEA INSURANCE CO., LTD.

of LIVERPOOL

Our certificates of insurance are payable in case of loss at all large ports of the world, and we maintain for handling claims on flour a special organization which includes agents and surveyors at the principal flour ports of Europe for dealing with this commodity alone.

CHUBB & SON UNITED STATES MANAGERS

5 and 7 South William Street : NEW YORK

After May 1, 1931, our New York address will be : : : : : : 90 JOHN ST.

Insurance Exchange Building, 175 West Jackson Blvd. : : : : : CHICAGO

Royal Bank Building : : MONTREAL

ORIGINATORS *of* ALL RISKS INSURANCE ON FLOUR

POLICIES OF THIS COMPANY ARE HELD BY ALL LEADING MILLERS

Canada—Upper Lake Terminals

Elevator storage capacity at Fort William and Port Arthur, in bushels (000's omitted):

FORT WILLIAM

	Public	Private
Northland Elevator Co., Ltd.	....	7,500
Grand Trunk Pacific Elevator Co., Ltd.	5,750	....
Ogilvie Flour Mills Co., Ltd.	....	3,000
Federal Grain, Ltd.	....	1,750
Fort William Elevator Co., Ltd.	....	3,750
Federal Grain, Ltd.	....	3,000
Western Terminal Grain Co., Ltd.	....	3,100
Sask. Pool Terminals, Ltd., No. 8	....	2,500
Can. Cons. Grain Co., Ltd.	....	1,750
Searle Terminal, Ltd.	....	3,000
N. M. Paterson & Co., Ltd.	....	2,500
Elec. Elev. & Grain Co., Ltd.	....	1,920
National Elevator Co., Ltd.	....	85
Gooderham, Melady & Sellers	....	65
McCabe Bros. Grain Co., Ltd.	....	25
Totals, bus	5,750	31,035

PORT ARTHUR

Saskatchewan Pool Elevators, Ltd., "C"	7,398	....
Canadian Government Elevators	3,250	....
Sask. Pool Terminals, Ltd., No. 7	....	6,900
Saskatchewan Pool Elevators, Ltd., "4"	6,568	....
Canadian Co-op. Wheat Producers, Ltd., "2"	....	1,375
Reliance Terminal Elevator Co., Ltd.	....	3,800
United Grain Growers, Ltd.	....	5,500
Saskatchewan Pool Elevators, Ltd., "5"	....	2,100
Eastern Terminal Elevator Co., Ltd.	....	3,500
Federal Grain, Ltd.	....	2,250
Bawlf Terminal Elevator Co., Ltd.	....	2,350
Can. Cons. Grain Co., Ltd.	....	1,500
Superior Elevator Co., Ltd.	....	900
National Elevator Co., Ltd.	....	50
Canadian Co-op. Wheat Producers, Ltd., "1"	....	1,300
Union Terminal, Ltd.	....	1,200
Totals, bus	17,216	32,725
Grand totals, bus	22,966	63,760

Eastern Canada—Elevators

Location and capacity in bushels of public elevators embraced in the eastern grain inspection division of Canada:

Collingwood, Ont.	2,150,000
Depot Harbor, Ont.	1,650,000
Goderich, Ont.	5,000,000
Halifax, N. S.	2,100,000
Kingston, Ont.	250,000
Midland, Ont.	8,600,000
Montreal, Que.	16,312,000
Owen Sound, Ont.	1,000,000
Port Colborne, Ont.	5,250,000
Port McNicoll, Ont.	6,500,000
Quebec, Que.	4,000,000
Tiffin, Ont.	5,500,000
Toronto, Ont.	2,000,000
West St. John, N. B.	1,000,000
St. John, N. B.	500,000
Sarnia, Ont.	3,000,000
Sorel, Que.	2,000,000
Total, bus	68,312,000

Western Canada—Grain Storage

Elevator capacity in use Jan 1 for a series of years, including storage at Port Arthur, Fort William, Keewatin, Kenora, and points in Manitoba, Alberta, Saskatchewan and British Columbia, in bushels:

1931	326,082,210	1912	89,777,000
1930	305,744,790	1911	84,911,000
1929	305,744,790	1910	77,501,000
1928	243,508,200	1909	62,965,000
1927	238,636,560	1908	60,569,000
1926	229,790,620	1907	55,600,000
1925	227,914,620	1906	50,450,000
1924	216,994,620	1905	46,640,000
1923	203,027,420	1904	41,156,000
1922	197,453,420	1903	30,356,000
1921	197,033,620	1902	21,293,000
1920	192,451,970	1901	21,000,000
1919	189,489,964	1900	20,905,000
1918	172,370,000	1899	15,958,000
1917	163,144,000	1898	18,379,000
1916	158,181,000	1897	14,999,000
1915	139,429,000	1896	13,874,000
1914	112,822,000	1895	12,000,000
1913	91,371,000		

St. Louis—Public Elevators

St. Louis has seven public elevators, with a combined capacity of 9,200,000 bus. Names, with concerns operating, and capacities in bushels, are:

Burlington—Burlington Grain & Elevator Co.	2,100,000
Victoria—Plant Flour Mills Co.	250,000
Brooklyn Street—Plant Flour Mills Co.	500,000
Terminal—Terminal Elevator Co.	100,000
Missouri Pacific—Continental Export Co.	4,000,000
Checkerboard "B"—Ralston Purina Co.	700,000
Checkerboard "A"—Ralston Purina Co.	1,350,000
Total	9,200,000

Philadelphia—Elevators

Grain elevators at Philadelphia, Pa., with capacities, in bushels:

Port Richmond	2,500,000
Girard Point	2,225,000
Twentieth Street	250,000
Total, bus	4,975,000

Fort Worth—Elevators

Grain elevators at Fort Worth, Texas, with capacities, in bushels:

Fort Worth Elevators Co.—	
(Katy plant)	3,600,000
(Rock Island plant)	1,500,000
Kimbell Milling Co.	2,500,000
E. G. Rall Grain Co.	1,000,000
Bewley Mills	725,000
Smith Brothers Grain Co.	125,000
Rosenbaum Grain Co.	300,000
Burrus Mill & Elevator Co.	300,000
Universal Mills	500,000
Ralston-Purina Co.	300,000
Terminal Grain Co.	200,000
F. A. Bailey Elevator	150,000
Panther City Grain Co.	100,000
Golden Rod Elevator	100,000
Niles Public Elevator	100,000
Scott Brothers	75,000
Lone Star Elevator	750,000
Total	12,325,000

St. Joseph—Elevators

Name—	Capacity
Burlington Public Elevator Co.	1,000,000
Stratton Grain Co.	2,000,000
Trans-Mississippi Grain Co.	2,500,000
Excello Feed Milling Co.	150,000
Famo Feed Milling Co.	50,000
Fogarty-Knolb & Co.	15,000
Grain Belt Mills Co.	50,000
Hauck Milling Co.	50,000
Larabee Flour Mills Co.	1,750,000
Larabee Flour Mills Co.*	500,000
Quaker Oats Co.	2,200,000
Schreiber Milling & Grain Co.	75,000
Stock Yards Elevator	12,000
Total	10,352,000

*In Elwood, Kansas.

Omaha—Elevators

Elevators at Omaha, Neb., including the terminal district of Omaha-Council Bluffs (Iowa), with storage capacity of each, in bushels:

Name—	Capacity, bus
American Milling Co.	150,000
Cargill Commission Co.	5,000,000
Crowell Elevator Co.	1,200,000
Farmers' Terminal Elevator Co.	2,000,000
Flanley Grain Co.	150,000
Maney Grain Co., "A"	400,000
Miller Cereal Mills	110,000
Nebraska Consolidated Mills Co.	375,000
Nebraska-Iowa Grain Co.	1,200,000
Nye & Jenks Grain Co.	1,460,000
Omaha Elevator Co.	1,500,000
Omaha Flour Mills Co.	800,000
Scoular-Bishop Grain Co.	125,000
Trans-Mississippi Grain Co.	1,100,000
Twamley, J. F., Son & Co.	40,000
Updike Grain Corporation, "A"	600,000
Updike Grain Corporation, "B"	1,750,000
Updike Grain Corporation, "D"	2,500,000
Total capacity	20,750,000

Milwaukee—Elevators

	Capacity, bus
C., M., St. P. & P., Elevator E	3,550,000
Corcoran Bros. Co.	30,000
Donahue-Stratton Co., Kinnickinnic	3,500,000
Donahue-Stratton Co., Rialto	1,500,000
Froedtert Grain & Malting Co.	1,300,000
Goodrich, William O., Co.	600,000
Hales Milling Co.	120,000
Kamm, P. C., Co.	260,000
Krause, Charles A., Milling Co.	250,000
Kurth Malting Co.	1,300,000
Ladish Milling Co.	125,000
Milwaukee Western Malt Co.	450,000
Orth, Philip, & Co.	60,000
Red Star Yeast & Products Co.	75,000
The Riebs Co.	820,000
Schlitz, Joseph, Beverage Co.	1,000,000
Stern, Bernhard, & Sons, Inc.	500,000
Smith Milling Co.	100,000
Weschler, D. D., & Sons, Inc.	570,000
Total	15,990,000

Nashville—Elevators

Name—	Capacity, bus
Commercial Elevator	75,000
Dixie Elevator Co.	25,000
Hermitage Mills	215,000
Nashville Warehouse & Elevator Co.	1,100,000
Liberty Mills	325,000
National Grain Co.	50,000
Gillette Grain Co.	600,000
Tennessee Grain Co.	125,000
Purina Mills	300,000
Caswell E. Rose Co.	100,000
McKay, Reece & Co.	50,000
G. P. Rose & Co.	100,000
Total	3,065,000

Hampton Roads—Elevators

Grain elevators at Norfolk and Newport News, Va., with capacities in bushels:

	Capacity, bus
Norfolk Municipal, operated by Norfolk & Western	500,000
Norfolk & Western, Norfolk, operated by Davis Milling Co.	225,000
Chesapeake & Ohio, Newport News	600,000
Total	1,325,000

Detroit—Elevators

	Capacity, bus
PUBLIC	
American Elevator	250,000
Detroit Malt & Grain Co.	50,000
H. W. Rickel & Co.	275,000
PRIVATE	
Lichtenberg & Son	50,000
David Stott Flour Mills, Inc.	250,000
Commercial Milling Co.	300,000
Total, bus	1,175,000

Memphis—Elevators

	Capacity, bus
Cook Elevator Co.	150,000
Davis & Andrews Co.	50,000
Happy Feed Mills, Inc.	100,000
International Sugar Feed Co.	100,000
Memphis Milling Co.	60,000
Central Feed Mills	50,000
Quaker Oats Co.	750,000
Royal Feed & Milling Co.	75,000
Sessum Grain Co.	50,000
Superior Feed Co.	60,000
Fidelity Grain & Elevator Co.	50,000
Embrey E. Anderson	200,000
Total	1,155,000

Baltimore—Elevators

Name—Operator—	Capacity, bus
Elevator E—B. & O. R. R.	250,000
Locust Point Elevator—B. & O. R. R.	3,800,000
Canton No. 2—Central Elevator Co.	300,000
Canton No. 3—Central Elevator Co.	4,250,000
Port Covington—W. Maryland Ry.	4,000,000
Total, bus	12,600,000

Boston—Elevators

Elevators at Boston, Mass., with capacity:

Railroad—	No.	Bus
Boston & Maine	2	1,500,000
Boston & Albany (N. Y. C. Lessee)	1	1,000,000
Totals	3	2,500,000

Galveston—Elevators

Name—Operated by—	Capacity, bus
Elevator A—Galveston Wharf Co.	[illegible]
Elevator B—Galveston Wharf Co.	[illegible]
Star Mill—Texas Star Flour Mills	[illegible]
Sunset—Southern Pacific Railway	[illegible]
Total	[illegible]

Liverpool—Grain Trading

The unit in the Liverpool future and cash grain market is the cental of 100 lbs. This unit applies to the options and to cash grain where traded in on delivered or landed terms, whether spot or forward. On trading done on c.i.f. terms the unit of measure for practically all descriptions of imported wheat is the quarter of 480 lbs. The unit on which English wheat is sold is the hundredweight of 112 lbs.

The size of a cargo of wheat is variable. A sailing ship cargo runs from [illegible] to [illegible] bus up to as high as [illegible], and sometimes more. A steamer cargo may be from [illegible] bus up to [illegible], with the average usually reckoned at [illegible].

United States Flour Consumption

Estimated normal annual wheat flour consumption of the United States, by states, in barrels of 196 lbs:

Maine	726,200	N. Dakota	1,061,100
N. H.	412,600	S. Dakota	968,000
Vermont	392,800	Nebraska	1,171,900
Mass.	3,719,200	Kansas	2,122,200
R. Island	528,400	Kentucky	2,111,600
Connecticut	1,120,000	Tennessee	1,876,240
New York	11,095,200	Alabama	1,566,000
N. Jersey	[illegible]	Mississippi	1,561,100
Pa.	[illegible]	Louisiana	1,616,200
Delaware	213,400	Texas	4,784,000
Maryland	1,342,800	Oklahoma	[illegible]
Virginia	1,972,800	Arkansas	1,391,800
W. Virginia	1,580,000	Montana	551,400
N. Carolina	2,162,400	Wyoming	226,200
S. Carolina	1,398,000	Colorado	1,151,400
Georgia	2,281,800	New Mexico	[illegible]
Florida	804,200	Arizona	368,000
Ohio	6,489,400	Utah	529,600
Indiana	3,211,200	Nevada	130,200
Illinois	6,890,600	Idaho	557,200
Michigan	3,051,800	Washington	1,811,000
Wisconsin	2,600,400	Oregon	1,019,600
Minnesota	3,282,600	California	3,524,400
Iowa	2,333,600		
Missouri	3,547,200	Tot., U. S.	108,097,400

Moisture Loss in Bread

The following determinations of the losses of moisture in bread at various times after baking have been made in the laboratories of the American Institute of Baking:

Percentage moisture 1 hour after baking	Percentage moisture 24 hours after baking	Percentage loss in 24 hrs
36.16	30.31	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Pct. moisture 48 hours after baking	Pct. loss in 48 hrs	Pct. moisture 72 hours after baking	Pct. loss in 72 hrs
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	19.19	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	11.15

Kansas Mills—Storage Capacity

Wheat storage capacity of principal Kansas mills, outside of Kansas City, showing storage at mills (50,000 bus or more) and supplementary storage controlled, in bushels:

Town—	No. mills	At mill	Supplementary
Abilene	2	760,000	310,000
Anthony	1	135,000	61,000
Arkansas City	2	885,000	215,000
Atchison	[illegible]	2,025,000	2,300,000
Attica	1	60,000	20,000
Beloit	1	110,000	......
Buhler	1	125,000	25,000
Caldwell	1	76,000	40,000
Cherryvale	1	200,000	50,000
Claflin	1	125,000	75,000
Clay Center	2	225,000	......
Clyde	1	90,000	......
Coffeyville	1	650,000	280,000
Concordia	1	100,000	......
Dodge City	1	300,000	160,000
Ellinwood	2	400,000	90,000
Enterprise	1	115,000	205,000
Fort Scott	1	175,000	......
Great Bend	3	675,000	110,000
Gypsum City	1	115,000	20,000
Harper	1	160,000	......
Hays	1	[illegible]	150,000
Halstead	1	200,000	[illegible]
Hillsboro	1	50,000	......
Hudson	1	250,000	10,000
Hutchinson	3	1,810,000	617,000
Inman	1	175,000	10,000
Junction City	2	189,000	90,000
Kingman	1	135,000	......
Larned	2	150,000	......
Lawrence	1	750,000	250,000
Leavenworth	2	325,000	......
Liberal	1	60,000	210,000
Lindsborg	1	[illegible]	[illegible]
Lyons	2	[illegible]	10,000
Manhattan	1	100,000	......
Marquette	1	120,000	110,000
McPherson	2	395,000	105,000
Moundridge	1	250,000	20,000
Newton	[illegible]	683,000	[illegible]
Ottawa	1	175,000	......
Pleasanton	1	50,000	......
Pratt	1	160,000	......
Russell	1	200,000	100,000
Salina	[illegible]	[illegible]	[illegible]
Smith Center	1	65,000	......
St. John	1	150,000	......
Sterling	1	250,000	......
Topeka	[illegible]	1,350,000	[illegible]
Wellington	2	865,000	300,000
Whitewater	1	55,000	25,000
Wilson	1	130,000	[illegible]
Winfield	1	210,000	......
Wichita	[illegible]	[illegible]	550,000
Totals	[illegible]	27,013,000	9,652,000

Nebraska Mills—Storage Capacity

Wheat storage capacity of principal Nebraska mills, showing storage at mill and supplementary storage controlled, in bushels:

Town—	No. mills	At mill	Supplementary
Beatrice	1	[illegible]	[illegible]
Crete	1	400,000	[illegible]
Fremont	1	[illegible]	......
Grand Island	1	160,000	......
Lincoln	2	710,000	......
Neligh	1	[illegible]	......
Omaha	[illegible]	1,755,400	......
Schuyler	1	250,000	30,000
Scribner	1	150,000	......
Totals	12	[illegible]	[illegible]

Oklahoma Mills—Storage Capacity

Wheat storage capacity of principal Oklahoma mills, showing storage at mill and supplementary storage controlled, in bushels:

Town—	No. mills	At mill	Supplementary
Altus	1	[illegible]	35,000
Alva	1	[illegible]	81,000
Ardmore	1	[illegible]	......
Blackwell	1	[illegible]	193,000
Cherokee	1	[illegible]	......
Chickasha	1	[illegible]	150,000
El Reno	[illegible]	[illegible]	50,000
Enid	[illegible]	[illegible]	......
Geary	1	[illegible]	25,000
Kingfisher	[illegible]	[illegible]	105,000
Oklahoma City	[illegible]	1,385,000	[illegible]
Perry	1	[illegible]	......
Ponca City	1	[illegible]	65,000
Shawnee	1	[illegible]	......
Yukon	1	[illegible]	......
Totals	[illegible]	[illegible]	[illegible]

New York—Elevators

Elevators at New York City, with capacities, in bushels:

Name—	Capacity
N. Y. Central & H. R. Railroad	1,600,000
Erie Elevator	1,000,000
Payne's	20,000
Leverich & Hatch, Inc.	300,000
Shaw & Truesdell	100,000
Blake's	100,000
Brooklyn Elevator	30,000
Brooklyn Elevator, Jersey City	45,000
Lehigh Valley Railroad	450,000
New York State Canal Grain Elevator	2,000,000
Total	[illegible]

Evansville—Elevators

Mill elevator capacity at Evansville, Ind:

	Capacity, bus
Igleheart Bros., Inc.	1,250,000
Phoenix Flour Mill (owned by Igleheart Bros., Inc.)	100,000
Sunnyside Milling Co.	60,000
Wilbur Erskine (depository)	135,000
Total	1,545,000

STOCKS AND SUPPLIES OF GRAIN AND PRODUCTS

A Section Devoted to Statistics Dealing With the Quantities of Grain and Grain Products Held at Various Important Centers During the Past Year and With Comparisons for Previous Twelve Monthly Periods

QUARTERLY REPORT ON WHEAT AND WHEAT FLOUR STOCKS HELD BY MILLS

Statistics compiled by United States Department of Commerce showing stocks of wheat and wheat flour held by a number of mills reporting to the department, by quarters:

Date on which quarter ended—	No. of milling companies reporting	No. of mills represented	Daily capacity in barrels of flour	Percentage of United States wheat flour output*	Wheat stocks held by mills, in bushels: In country elevators	In public terminal elevators	In private terminal elevators not attached to mills	In transit and bought to arrive	In mills and mill elevators attached to mills	Total wheat stocks	Wheat flour stocks held by mills, including flour in transit and both sold and unsold, in barrels
Dec. 31, 1930	839	[illegible]	630,766	91.9	9,057,553	[illegible]	17,774,891	12,122,989	89,477,870	137,194,166	[illegible]
Sept. 30, 1930	825	[illegible]	627,911	91.8	11,063,592	[illegible]	13,219,697	16,339,814	101,964,419	154,111,817	[illegible]
June 30, 1930	837	959	636,657	91.8	3,498,848	[illegible]	1,794,586	13,793,840	43,776,206	66,660,403	[illegible]
March 31, 1930	860	1,012	646,958	92.8	4,626,165	[illegible]	7,348,122	8,061,505	69,178,771	96,565,965	[illegible]
Dec. 31, 1929	[illegible]	1,036	651,075	93.2	10,778,539	15,039,456	14,146,915	9,978,161	100,094,747	160,047,818	4,724,151
Sept. 30, 1929	[illegible]	1,030	653,091	93.2	12,781,184	19,650,574	16,067,139	17,942,969	109,343,739	174,775,605	4,479,140
June 30, 1929	[illegible]	1,038	654,914	93.6	3,520,401	8,320,880	2,158,106	15,441,858	45,913,649	75,354,796	[illegible]
March 31, 1929	[illegible]	1,025	644,105	93.2	5,755,240	14,455,065	2,987,623	8,670,670	74,346,697	107,215,195	[illegible]
Dec. 31, 1928	[illegible]	989	637,800	92.8	9,937,287	[illegible]	[illegible]	22,840,293	88,234,308	153,865,572	4,596,993
Sept. 30, 1928	[illegible]	993	650,572	[illegible]	[illegible]	[illegible]	[illegible]	23,872,861	92,654,724	151,228,376	4,180,489
June 30, 1928	832	995	650,025	[illegible]	[illegible]	[illegible]	[illegible]	10,162,805	29,781,757	46,082,794	[illegible]
March 31, 1928	835	1,007	652,687	[illegible]	[illegible]	[illegible]	2,109,901	9,407,499	59,050,482	85,384,919	[illegible]
Dec. 31, 1927	852	1,011	662,129	89.5	[illegible]	14,106,519	3,640,221	18,587,384	70,460,902	115,637,349	[illegible]
Sept. 30, 1927	828	989	640,414	89.1	[illegible]	[illegible]	3,984,233	16,119,698	77,246,287	115,727,886	[illegible]
June 30, 1927	[illegible]	995	649,297	90.1	[illegible]	[illegible]	1,606,263	10,394,884	34,148,732	52,589,768	3,566,423
March 31, 1927	[illegible]	1,009	636,939	90.5	[illegible]	6,849,757	5,837,560	6,450,960	60,671,609	86,771,593	4,126,927
Dec. 31, 1926	868	[illegible]	634,938	87.5	8,472,320	11,952,564	[illegible]	13,486,798	71,842,824	116,412,650	[illegible]
Sept. 30, 1926	861	[illegible]	......	87.4	8,916,936	12,036,741	[illegible]	16,377,702	79,872,599	124,773,240	[illegible]

*This percentage is arrived at by taking the total United States flour output to be that reported at the most recent census of manufactures.

UNITED STATES—FLOUR STOCKS IN CITIES

Flour stocks in 10 United States cities on the first day of each month for the past five years, with comparisons of the aggregate figures with those of preceding years, in barrels:

	Philadelphia	N. York	Chicago	St. Louis	Toledo	Baltimore	Detroit	Boston	Milwaukee	Duluth
1930—										
Jan. 1	81,000	67,000	28,000	68,000	28,000	38,000	18,000	41,000	14,000	85,000
Feb. 1	75,000	62,000	28,000	70,000	22,000	37,000	20,000	43,000	36,000	89,000
March 1	79,000	58,000	30,000	64,000	24,000	38,000	20,000	47,000	1,000	91,000
April 1	78,000	54,000	32,000	63,000	23,000	37,000	20,000	41,000	2,000	83,000
May 1	74,000	51,000	28,000	61,000	25,000	36,000	19,000	40,000	106,000	189,000
June 1	76,000	46,000	27,000	50,000	32,000	38,000	18,000	37,000	29,000	153,000
July 1	80,000	43,000	28,000	57,000	21,000	40,000	19,000	36,000	56,000	126,000
Aug. 1	68,000	43,000	26,000	46,000	21,000	38,000	18,000	33,000	21,000	149,000
Sept. 1	64,000	43,000	27,000	49,000	24,000	36,000	19,000	39,000	49,000	153,000
Oct. 1	61,000	46,000	27,000	62,000	24,000	43,000	21,000	36,000	31,000	194,000
Nov. 1	57,000	48,000	27,000	57,000	24,000	35,000	18,000	32,000	22,000	267,000
Dec. 1	74,000	51,000	26,000	58,000	20,000	36,000	20,000	39,000	27,000	238,000
1929—										
Jan. 1	104,000	65,000	30,000	70,000	24,000	36,000	20,000	38,000	2,000	49,000
Feb. 1	94,000	61,000	32,000	71,000	22,000	38,000	20,000	38,000	3,000	56,000
March 1	93,000	57,000	35,000	65,000	24,000	36,000	22,000	36,000	4,000	63,000
April 1	93,000	51,000	36,000	59,000	[illegible]	37,000	19,000	35,000	21,000	60,000
May 1	83,000	48,000	38,000	54,000	[illegible]	40,000	20,000	37,000	2,000	205,000
June 1	72,000	44,000	33,000	58,000	42,000	40,000	20,000	38,000	35,000	217,000
July 1	76,000	42,000	29,000	60,000	27,000	39,000	21,000	37,000	72,000	210,000
Aug. 1	76,000	44,000	32,000	55,000	25,000	40,000	20,000	35,000	46,000	216,000
Sept. 1	67,000	50,000	33,000	61,000	19,000	38,000	20,000	35,000	54,000	242,000
Oct. 1	71,000	55,000	30,000	56,000	19,000	42,000	21,000	36,000	32,000	292,000
Nov. 1	71,000	50,000	36,000	57,000	26,000	38,000	20,000	41,000	17,000	320,000
Dec. 1	76,000	63,000	31,000	59,000	30,000	40,000	19,000	46,000	15,000	234,000
1928—										
Jan. 1	116,000	62,000	33,000	78,000	20,000	45,000	26,000	33,000	2,000	60,000
Feb. 1	97,000	59,000	34,000	72,000	17,000	40,000	20,000	32,000	1,000	72,000
March 1	96,000	54,000	29,000	76,000	20,000	42,000	25,000	31,000	2,000	88,000
April 1	89,000	49,000	33,000	75,000	17,000	40,000	24,000	29,000	3,000	157,000
May 1	96,000	45,000	33,000	66,000	16,000	42,000	22,000	31,000	24,000	280,000
June 1	98,000	41,000	31,000	52,000	15,000	40,000	20,000	32,000	9,000	175,000
July 1	96,000	38,000	28,000	55,000	13,000	38,000	22,000	34,000	17,000	156,000
Aug. 1	81,000	39,000	25,000	65,000	16,000	38,000	20,000	33,000	33,000	143,000
Sept. 1	74,000	45,000	28,000	58,000	14,000	38,000	19,000	31,000	28,000	161,000
Oct. 1	73,000	51,000	30,000	66,000	12,000	41,000	20,000	36,000	51,000	205,000
Nov. 1	79,000	55,000	34,000	77,000	14,000	41,000	20,000	38,000	37,000	246,000
Dec. 1	95,000	61,000	30,000	68,000	20,000	38,000	20,000	36,000	42,000	179,000
1927—										
Jan. 1	151,000	69,000	37,000	72,000	24,000	40,000	20,000	33,000	1,000	171,000
Feb. 1	161,000	63,000	32,000	71,000	27,000	38,000	21,000	29,000	4,000	175,000
March 1	153,000	58,000	31,000	60,000	21,000	35,000	20,000	29,000	3,000	84,000
April 1	132,000	62,000	29,000	67,000	16,000	37,000	18,000	39,000	3,000	124,000
May 1	124,000	49,000	26,000	72,000	29,000	36,000	17,000	27,000	4,000	168,000
June 1	107,000	43,000	26,000	63,000	34,000	40,000	21,000	30,000	68,000	130,000
July 1	94,000	41,000	28,000	62,000	29,000	42,000	21,000	28,000	37,000	117,000
Aug. 1	85,000	38,000	27,000	72,000	19,000	38,000	20,000	27,000	31,000	102,000
Sept. 1	74,000	44,000	29,000	77,000	22,000	35,000	21,000	26,000	16,000	104,000
Oct. 1	74,000	50,000	29,000	72,000	21,000	38,000	23,000	31,000	18,000	179,000
Nov. 1	93,000	53,000	32,000	72,000	19,000	40,000	24,000	30,000	63,000	205,000
Dec. 1	106,000	58,000	31,000	72,000	20,000	40,000	25,000	33,000	43,000	241,000
1926—										
Jan. 1	121,000	48,000	32,000	67,000	24,000	40,000	21,000	31,000	5,000	65,000
Feb. 1	107,000	35,000	29,000	65,000	22,000	37,000	18,000	30,000	10,000	80,000
March 1	112,000	32,000	27,000	57,000	22,000	35,000	[illegible]	29,000	10,000	81,000
April 1	107,000	30,000	28,000	64,000	26,000	38,000	20,000	29,000	9,000	87,000
May 1	109,000	28,000	28,000	61,000	22,000	40,000	21,000	31,000	30,000	301,000
June 1	98,000	27,000	24,000	55,000	21,000	37,000	20,000	29,000	55,000	249,000
July 1	100,000	30,000	27,000	37,000	26,000	40,000	21,000	31,000	35,000	226,000
Aug. 1	86,000	36,000	33,000	31,000	96,000	42,000	20,000	29,000	39,000	265,000
Sept. 1	95,000	49,000	33,000	63,000	96,000	45,000	19,000	30,000	9,000	251,000
Oct. 1	103,000	53,000	29,000	69,000	12,000	46,000	21,000	32,000	30,000	328,000
Nov. 1	122,000	58,000	30,000	76,000	27,000	40,000	20,000	33,000	26,000	395,000
Dec. 1	134,000	64,000	34,000	61,000	24,000	42,000	22,000	34,000	24,000	378,000

MONTHLY TOTALS, BY YEARS

Monthly totals for the foregoing 10 cities, by years, in barrels (000's omitted):

	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920
Jan. 1	455	438	475	618	454	508	588	592	670	719	752
Feb. 1	481	435	444	621	433	463	527	629	578	656	779
March 1	452	435	463	491	421	482	498	601	541	626	809
April 1	433	433	515	507	438	623	541	713	572	601	826
May 1	629	575	655	562	673	594	749	975	684	666	897
June 1	506	599	513	552	615	567	708	868	665	593	908
July 1	509	613	498	496	573	548	749	734	672	492	934
Aug. 1	463	589	498	469	667	587	790	936	860	500	727
Sept. 1	503	619	496	448	690	602	803	788	801	641	571
Oct. 1	545	656	586	535	723	616	823	909	834	863	777
Nov. 1	587	686	641	631	827	797	768	894	878	1,073	927
Dec. 1	589	663	589	671	834	744	728	892	611	1,006	866

WEEKLY VISIBLE WHEAT SUPPLY

Following are Bradstreet's returns of stocks of wheat held each week from July 6, 1929, to Dec. 27, 1930, in the United States, Canada and the United Kingdom, and the supply on passage for Europe, in bushels (000's omitted):

Week ending—	United States: East of Rockies	Pacific Coast	Totals	Canada	Totals, U. S. and Canada both coasts	U. Kingdom and afloat*	Grand totals
1929—							
July 6	97,836	1,436	99,272	113,576	212,848	59,800	272,648
July 13	103,960	1,492	105,452	109,591	215,043	55,600	[illegible]
July 20	109,872	1,423	111,295	108,689	219,984	52,200	[illegible]
July 27	123,291	2,135	125,426	106,519	231,945	48,400	280,345
Aug. 3	142,855	2,649	145,504	103,315	248,819	43,800	292,619
Aug. 10	163,121	2,484	165,605	101,458	267,063	44,800	311,863
Aug. 17	177,054	4,649	181,703	97,616	279,319	42,900	322,219
Aug. 24	185,946	4,941	190,887	97,785	288,672	46,400	335,072
Aug. 31	190,911	5,975	196,886	96,224	293,110	51,700	344,810
Sept. 7	193,214	6,250	199,464	102,808	302,272	52,700	354,972
Sept. 14	194,608	6,462	[illegible]	117,602	318,672	53,300	371,972
Sept. 21	197,221	6,488	203,709	135,984	[illegible]	53,800	393,493
Sept. 28	198,982	6,796	[illegible]	156,620	[illegible]	52,600	414,998
Oct. 5	200,079	6,817	206,896	173,685	[illegible]	55,800	436,381
Oct. 12	201,248	7,339	208,587	182,697	[illegible]	55,700	446,984
Oct. 19	201,524	6,772	208,296	195,407	403,703	56,900	460,603
Oct. 26	201,510	6,919	208,429	206,932	415,361	56,700	472,061
Nov. 2	202,781	6,645	209,426	213,381	422,807	55,700	478,507
Nov. 9	199,829	6,182	206,011	214,360	420,371	52,100	472,471
Nov. 16	199,164	6,728	205,892	216,734	422,626	49,300	471,926
Nov. 23	194,452	6,435	200,887	216,256	417,143	50,900	468,043
Nov. 30	191,833	6,724	198,557	217,102	415,659	48,200	463,859
Dec. 7	189,466	6,948	196,414	217,277	413,691	49,000	462,691
Dec. 14	189,407	6,397	195,804	217,496	413,300	45,800	459,100
Dec. 21	188,693	6,077	194,770	216,816	411,586	43,200	454,786
Dec. 28	185,113	6,069	191,182	217,903	409,085	44,400	453,485
1930—							
Jan. 4	182,331	5,840	188,171	217,756	405,927	43,400	449,327
Jan. 11	178,867	5,741	184,608	216,708	401,316	47,300	448,616
Jan. 18	175,000	5,759	180,759	216,575	397,334	47,000	444,334
Jan. 25	172,263	5,413	177,676	213,391	391,067	49,000	440,067
Feb. 1	168,925	4,558	173,483	210,643	384,126	50,600	434,726
Feb. 8	165,440	3,960	169,400	208,058	377,458	53,400	430,858
Feb. 15	165,106	4,157	169,263	205,239	374,502	53,700	428,202
Feb. 22	162,380	4,388	166,768	203,138	369,906	50,200	420,106
March 1	160,375	4,799	165,174	202,282	367,456	49,800	417,256
March 8	160,107	5,157	165,264	199,279	364,543	50,300	414,843
March 15	157,897	5,275	163,172	197,526	360,698	50,900	411,598
March 22	155,551	5,087	160,638	194,067	354,705	47,400	402,105
March 29	153,290	4,886	158,176	192,754	350,930	45,200	396,130
April 5	150,534	4,668	155,202	189,075	344,277	46,800	391,077
April 12	147,359	4,292	151,651	187,419	339,070	48,600	387,670
April 19	143,403	3,942	147,345	184,717	332,062	47,100	379,162
April 26	137,778	3,967	143,745	181,981	325,726	45,200	370,926
May 3	136,358	3,957	140,315	177,424	317,739	44,200	361,939
May 10	129,309	4,055	133,364	171,578	304,942	43,600	348,542
May 17	125,245	3,370	128,615	164,911	293,526	42,500	336,026
May 24	121,450	3,287	124,737	156,071	280,808	43,200	324,008
May 31	119,682	3,353	123,035	147,801	270,836	43,800	314,636
June 7	117,428	3,453	120,881	142,931	[illegible]	42,600	306,412
June 14	115,190	3,543	118,733	139,155	[illegible]	43,300	301,188
June 21	112,207	3,283	115,490	135,019	250,509	42,000	292,509
June 28	109,985	2,770	112,755	132,187	244,942	43,800	288,742
July 5	113,897	2,916	116,813	126,995	243,808	44,700	288,508
July 12	120,334	2,835	123,169	120,821	243,990	46,800	290,790
July 19	129,290	2,865	132,155	116,709	248,864	46,400	295,264
July 26	145,361	2,928	148,289	110,297	258,586	46,500	305,086
Aug. 2	161,666	3,950	165,616	106,544	272,160	46,000	318,160
Aug. 9	171,784	4,536	176,320	98,740	275,060	48,700	323,760
Aug. 16	181,004	4,979	185,983	95,396	281,379	50,000	331,379
Aug. 23	189,911	5,822	195,733	90,984	286,717	51,700	338,417
Aug. 30	194,800	6,741	201,541	90,617	292,158	53,000	345,158
Sept. 6	199,909	7,188	207,097	100,807	307,904	52,500	360,404
Sept. 13	207,617	8,133	215,750	120,871	336,621	49,400	386,021
Sept. 20	210,763	8,180	218,943	141,900	360,843	52,500	413,343
Sept. 27	213,804	8,407	222,211	148,288	370,499	53,200	423,699
Oct. 4	211,077	8,031	219,108	158,653	377,761	51,700	429,461
Oct. 11	211,158	7,341	218,499	161,986	380,485	52,100	432,585
Oct. 18	210,008	6,547	216,555	175,317	391,872	50,700	442,572
Oct. 25	207,767	6,367	214,134	177,002	391,136	52,700	443,836
Nov. 1	205,437	6,163	211,600	178,827	390,427	51,400	441,827
Nov. 8	205,202	5,420	210,622	183,545	394,167	55,000	449,167
Nov. 15	205,096	5,324	210,420	191,203	401,623	58,700	460,323
Nov. 22	205,000	5,156	210,156	195,840	405,996	62,200	468,196
Nov. 29	202,475	5,004	207,479	197,998	405,477	59,800	465,277
Dec. 6	197,501	4,510	202,011	198,315	400,326	58,800	459,126
Dec. 13	196,507	4,283	200,790	203,395	404,185	54,300	458,485
Dec. 20	194,373	4,255	198,628	204,657	403,285	52,700	455,985
Dec. 27	194,451	4,285	198,736	206,693	405,429	49,000	454,429

*Broomhall.

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Liverpool—Grain Stocks

Stocks of wheat and corn in Liverpool, Eng., on the dates indicated, in bushels:

	Wheat	Corn
1930—		
Jan. 4	8,277,000	857,000
Feb. 1	7,864,000	848,000
March 1	7,128,000	406,000
April 5	5,731,000	654,000
May 3	4,600,000	450,000
May 31	2,924,000	436,000
July 5	2,059,000	558,000
Aug. 2	1,605,000	226,000
Aug. 30	856,000	192,000
Oct. 4	1,860,000	550,000
Nov. 1	2,272,000	537,000
Nov. 29	4,779,000	656,000
1929—		
Jan. 7	1,296,000	462,000
Feb. 4	1,520,000	867,143
March 4	1,184,000	1,097,143
April 1	2,168,000	1,054,238
May 6	4,240,000	958,714
June 3	4,072,000	797,142
July 1	3,181,000	737,143
Aug. 5	1,424,000	257,143
Sept. 2	504,000	173,036
Oct. 7	4,808,000	550,000
Nov. 4	7,760,000	[illegible]
Dec. 2	8,512,000	[illegible]
1928—		
Jan. 2	801,416	1,175,880
Feb. 6	388,864	1,132,585
March 5	753,456	984,403
April 2	1,600,240	886,188
May 7	3,973,088	453,067
June 4	4,183,840	253,363
July 2	4,459,392	183,754
Aug. 7	3,866,304	88,688
Sept. 2	3,712,168	760,328
Oct. 1	2,913,528	883,483
Nov. 5	1,333,768	869,326
Dec. 3	1,143,936	640,037
1927—		
Jan. 3	1,039,064	333,206
Feb. 7	158,360	601,997
March 7	239,328	826,886
April 4	266,752	1,083,360
May 2	339,800	807,274
June 7	1,197,504	433,800
July 4	1,604,960	587,760
Aug. 1	2,275,368	251,520
Sept. 5	2,103,440	200,965
Oct. 3	2,568,312	644,160
Nov. 7	1,834,256	926,074
Dec. 5	1,460,216	1,175,845
1926—		
Jan. 2	1,256,000	774,000
Feb. 6	2,304,000	1,734,000
March 6	2,288,000	2,040,000
April 3	2,480,000	1,726,000
May 1	1,552,000	1,250,000
June 5	920,000	1,012,000
July 3	448,000	510,000
Aug. 7	448,000	136,000
Sept. 4	672,000	476,000
Oct. 2	520,000	629,000
Nov. 1	592,000	238,000
Dec. 4	328,000	144,000

WHEAT PRODUCTION AND DISAPPEARANCE

Figures compiled by the United States Department of Agriculture, showing the production, trade, total consumption and consumption per capita of wheat, by countries, average 1921-25:

	Bus. 000's omitted				Bus. 000's omitted		
Country—	Production	Net trade	Balance retained in country	Seed per acre, bus	Total seed required	Amount used in country, except seed	Amount used per capita
Canada	369,663	*263,526	106,137	1.75	[illegible]	[illegible]	7.4
United States	801,802	*[illegible]	614,396	1.38	[illegible]	[illegible]	[illegible]
Mexico	10,434	‡‖2,791	13,225	1.15	120	13,105	.9
U. Kingdom and Irish Free State	61,017	†222,953	283,970	2.03	3,575	280,395	5.8
Norway	637	†6,037	6,674	[illegible]	75	6,599	2.4
Sweden	10,630	†8,292	18,922	[illegible]	1,167	17,755	3.0
Denmark	8,973	†6,337	15,310	[illegible]	541	14,769	[illegible]
Netherlands	6,277	†24,644	30,921	2.30	317	30,604	[illegible]
Belgium	13,193	†38,852	52,045	2.30	780	51,265	[illegible]
France	290,874	†36,266	327,140	[illegible]	30,192	296,948	7.5
Spain	142,420	†1,739	144,159	2.16	22,717	121,442	[illegible]
Italy	198,307	†88,148	286,455	1.56	21,570	264,885	[illegible]
Switzerland	3,229	†14,920	18,149	[illegible]	318	17,831	[illegible]
Germany	98,714	†53,622	152,336	[illegible]	9,673	142,663	[illegible]
Austria	8,400	†15,217	23,617	[illegible]	1,350	22,267	[illegible]
Czechoslovakia	36,015	†15,660	51,675	2.83	4,386	47,289	[illegible]
Hungary	59,678	*15,592	44,086	[illegible]	7,748	36,338	4.5
Jugoslavia	58,753	*[illegible]	52,619	2.83	11,229	41,390	3.4
Greece	9,795	*[illegible]	22,522	2.65	‖2,716	19,806	[illegible]
Bulgaria	36,225	*2,616	33,609	2.65	6,410	27,199	5.5
Roumania	89,570	*4,469	85,101	2.65	19,642	65,459	3.9
Poland	43,987	†3,594	47,581	2.75	7,249	40,332	1.4
Lithuania	3,637	‡....	‡‡3,537	2.75	652	‡‡2,885	‡‡1.4
Latvia	1,426	†1,373	2,799	2.75	286	2,513	[illegible]
Esthonia	667	‖†910	1,577	2.75	129	1,448	1.3
Finland	739	†4,248	4,987	3.27	124	4,863	[illegible]
Algeria	27,414	*2,417	24,997	1.60	5,304	19,693	[illegible]
Tunis	7,899	*1,036	6,863	1.60	2,121	4,743	2.3
Egypt	36,949	†8,300	45,249	2.77	4,091	41,158	3.0
India	336,269	*19,584	316,685	1.26	38,426	278,259	.9
Japan	27,525	†22,725	50,250	.89	1,044	49,206	.8
Brazil	**4,113	‡....	‡‡4,113	1.10	‖266	‡‡3,847	‡‡1.3
Chile	26,944	***[illegible]	**23,185	2.33	3,323	19,862	[illegible]
Argentina	203,388	*[illegible]	69,945	[illegible]	20,416	49,529	[illegible]
Australia	127,113	*84,404	42,709	1.03	10,590	32,119	[illegible]

*Net exports. †Net imports. ‡Not available. ‖Three-year average. ‡‡Disregarding foreign trade. **Four-year average. ‖‖One year only.

United States—Per Capita Wheat Consumption

Per capita wheat consumption of the United States during crop years as estimated by the Chicago Daily Trade Bulletin, in bushels:

1929-30	4.61	1920-21	[illegible]
1928-29	4.92	1919-20	5.34
1927-28	4.94	1918-19	4.78
1926-27	4.39	1917-18	4.30
1925-26	4.62	1916-17	4.73
1924-25	4.84	1915-16	5.74
1923-24	5.26	1914-15	4.90
1922-23	5.04	1913-14	5.52
1921-22	4.36	1912-13	5.17

Winnipeg Grain Exchange

President, A. P. White; vice presidents, E. S. Parker, A. C. Reid; assistant secretary, J. T. Irving; members of the council, N. J. Breen, J. A. Crowe, R. T. Evans, H. E. Sellers, H. Gauer, C. E. Graham, C. E. Hayles, J. W. Horn, D. C. MacLachlan, W. A. Murphy, W. Pope, R. C. Reece; committee of arbitration, C. E. Eggleston, R. T. Evans, F. O. Fowler, H. Gauer, C. E. Hayles, R. W. Milner, H. E. Sellers; committee of appeals, F. J. Anderson, W. R. Bawlf, N. J. Breen, D. C. MacLachlan, W. H. McWilliams, W. E. Reid.

World Wheat Stocks

The world's visible commercial wheat stocks, on the first of each month, in millions of bushels, compiled from the Daily Trade Bulletin:

	1930-31	1929-30	1928-29	1927-28	1926-27	10-yr av'ge
July 1	379	[illegible]	245	183	113	[illegible]
Aug. 1	[illegible]	370	229	[illegible]	116	[illegible]
Sept. 1	382	435	233	205	[illegible]	[illegible]
Oct. 1	[illegible]	508	318	237	[illegible]	[illegible]
Nov. 1	523	563	[illegible]	299	[illegible]	289
Dec. 1	[illegible]	553	[illegible]	347	[illegible]	312
Jan. 1	583	[illegible]	565	390	379	345
Feb. 1	...	[illegible]	553	[illegible]	381	[illegible]
Mch. 1	...	551	527	[illegible]	373	352
April 1	...	518	497	[illegible]	[illegible]	[illegible]
May 1	...	[illegible]	[illegible]	340	[illegible]	285
June 1	...	[illegible]	[illegible]	[illegible]	[illegible]	240

United States—Wheat Supplies July 1

Total supplies of wheat in the United States on July 1 as reported by the Department of Agriculture, in bushels (000's omitted):

	On farms	Commercial visible	Country mills and elevators	Totals
1930	46,834	112,755	51,031	211,62[illegible]
1929	45,453	95,861	41,544	182,893
1928	23,729	[illegible]	19,277	81,928
1927	27,222	22,107	21,776	71,105
1926	20,982	12,325	28,430	61,797
1925	29,357	29,146	25,287	83,790
1924	30,981	34,901	36,626	102,508
1923	35,894	26,313	37,117	99,324
1922	32,359	17,773	28,756	78,888
1921	56,707	8,061	27,167	91,936
1920	49,546	24,034	37,304	110,884

Winnipeg—Wheat Inspection

Inspections of wheat at Winnipeg and other points in western Canada, in bushels, by crop years ended Aug. 31 for years up to 1924-25; since that date crop years ended July 31:

1929-30	221,663,280	1910-11	87,618,950
1928-29	456,450,153	1909-10	94,922,395
1927-28	399,664,675	1908-09	75,466,030
1926-27	336,231,814	1907-08	64,404,150
1925-26	353,780,220	1906-07	73,097,950
1924-25*	214,389,719	1905-06	65,549,940
[illegible]	291,268,159	1904-05	39,784,500
[illegible]	301,136,839	1903-04	40,356,650
1921-22	231,404,000	1902-03	51,833,000
1920-21	[illegible]	1901-02	45,661,800
1919-20	122,588,300	1900-01	12,355,380
1918-19	[illegible]	1899-1900	24,258,710
[illegible]	[illegible]	[illegible]	7,982,900
1916-17	192,070,700	1897-98	6,452,[illegible]
1915-16	338,419,200	1896-97	7,753,850
1914-15	107,916,760	1895-96	9,042,800
1913-14	158,013,450	1894-95	5,375,500
1912-13	141,715,125	1893-94	4,811,300
1911-12	145,937,700	1892-93	7,228,650

*For 11 months ending July 31, 1925.

GRAIN ON FARMS MARCH 1

Department of Agriculture estimates of the total quantities of grain on farms March 1:

	Quantities, bus (000's omitted)					Per cent of total crop				
	Wheat	Corn	Oats	Barley	Rye	Wheat	Corn	Oats	Barley	Rye
1930	129,153	959,469	399,222	73,280	5,358	16.0	37.7	32.2	23.9	[illegible]
1929	151,396	1,021,873	497,335	97,167	5,724	16.5	[illegible]	34.6	27.2	[illegible]
1928	130,944	1,011,908	337,167	61,972	7,851	14.9	[illegible]	31.5	[illegible]	13.5
1927	130,274	1,134,191	421,897	39,183	5,897	15.7	[illegible]	33.8	[illegible]	14.5
1926	100,174	1,329,281	571,248	52,253	6,971	14.8	45.6	38.4	24.4	15.0
1925	112,095	757,890	538,832	40,576	8,270	13.0	32.8	35.9	22.3	12.6
1924	137,721	1,153,847	417,366	44,930	12,241	17.3	37.8	34.3	[illegible]	19.4
1923	156,087	1,093,306	421,118	42,469	....	[illegible]	37.6	[illegible]	[illegible]	...
1922	134,253	1,305,559	411,934	42,294	....	16.5	42.5	38.2	[illegible]	...
1921	217,037	1,564,832	683,759	65,229	....	26.1	48.8	[illegible]	[illegible]	...
1920	169,904	1,045,575	409,730	38,820	....	17.6	[illegible]	31.6	[illegible]	...
1919	128,703	855,269	590,251	61,746	....	14.0	[illegible]	38.0	[illegible]	...
1918	107,745	1,253,290	599,209	44,419	....	16.9	40.9	[illegible]	[illegible]	...
1917	100,650	782,303	344,211	33,241	....	15.8	40.5	[illegible]	[illegible]	...
1916	244,448	1,116,559	598,148	58,301	....	23.8	37.3	35.6	25.5	...
1915	152,903	910,894	379,369	42,889	....	17.2	34.1	33.2	22.0	...
1914	151,795	866,352	419,481	44,126	....	19.9	35.4	[illegible]	[illegible]	...
1913	156,500	1,289,700	604,200	62,300	....	[illegible]	41.3	42.6	...	...

WORLD WHEAT VISIBLE

World's visible supply of wheat at the beginning (on July 1) of each of the past four crop years, in bushels:

	1930	1929	1928	1927
United States wheat	142,120,000	118,960,000	52,460,000	37,520,000
Canadian wheat	124,[illegible]	112,080,000	95,250,000	45,1[illegible]
United States flour as wheat	19,030,000	12,959,000	[illegible]	8,690,000
Canadian flour as wheat	[illegible]	4[illegible]	31[illegible]	350,000
Totals, North America	285,910,000	244,[illegible]	156,71[illegible]	91,690,000
United Kingdom wheat stock	5,3[illegible]	[illegible]	[illegible]	5,960,000
United Kingdom flour as wheat	1,040,000	[illegible]	[illegible]	1,14[illegible]
Australia	42,500,000	39,[illegible]	19,[illegible]	[illegible]
Argentina	5,240,000	13,[illegible]	[illegible]	[illegible]
Afloat for United Kingdom direct	[illegible]	[illegible]	[illegible]	14,19[illegible]
Afloat for Continent direct	1[illegible]	[illegible]	[illegible]	26,74[illegible]
Afloat for orders	9,840,000	14,090,000	[illegible]	15,9[illegible]
Totals	92,990,000	106,780,000	87,8[illegible]	91,340,000
Grand totals	378,900,000	351,180,000	244,510,000	183,030,000

UNITED STATES AND CANADA—FLOUR STOCKS

Flour stocks in the United States and Canada on the first day of each month, as reported by the Chicago Daily Trade Bulletin and the Minneapolis Market Record, in barrels:

1930—	January	February	March	April	May	June
New England	56,000	58,000	61,000	57,000	59,000	56,000
New York and New Jersey	108,000	106,000	109,000	93,000	116,000	85,000
Pennsylvania and Delaware	100,000	95,000	99,000	97,000	94,000	95,000
Maryland	44,000	42,000	44,000	42,000	41,000	42,000
Virginia and West Virginia	12,000	11,000	15,000	13,000	14,000	13,000
Ohio	77,000	65,000	69,000	68,000	64,000	75,000
Michigan	44,000	46,000	48,000	47,000	46,000	39,000
Indiana	56,000	50,000	65,000	63,000	60,000	56,000
Illinois	62,000	61,000	65,000	103,000	92,000	61,000
Kentucky	20,000	20,000	23,000	23,000	25,000	22,000
Tennessee	68,000	64,000	65,000	77,000	71,000	60,000
Louisiana, Texas and Oklahoma	87,000	92,000	106,000	103,000	104,000	105,000
Missouri	172,000	157,000	153,000	156,000	160,000	173,000
Kansas	120,000	105,000	104,000	110,000	106,000	102,000
Iowa	11,000	12,000	11,000	10,000	9,000	8,000
Nebraska	46,000	41,000	43,000	42,000	46,000	50,000
Wisconsin, Minnesota, Dakotas	324,000	328,000	307,000	289,000	525,000	386,000
Rocky Mountain States	25,000	29,000	28,000	27,000	28,000	25,000
Pacific Coast States	2,130,000	2,230,000	2,340,000	2,460,000	2,590,000	2,740,000
Canada	120,000	110,000	98,000	100,000	116,000	102,000
Totals	3,682,000	3,722,000	3,853,000	3,982,000	4,365,000	4,295,000

1930—	July	August	September	October	November	December
New England	51,000	48,000	57,000	52,000	47,000	53,000
New York and New Jersey	86,000	84,000	87,000	92,000	84,000	89,000
Pennsylvania and Delaware	100,000	87,000	84,000	81,000	75,000	92,000
Maryland	45,000	45,000	43,000	49,000	41,000	43,000
Virginia and West Virginia	11,000	12,000	14,000	11,000	10,000	12,000
Ohio	72,000	71,000	79,000	74,000	70,000	66,000
Michigan	38,000	38,000	40,000	43,000	36,000	37,000
Indiana	57,000	64,000	65,000	67,000	66,000	71,000
Illinois	64,000	64,000	62,000	60,000	60,000	60,000
Kentucky	24,000	27,000	23,000	21,000	22,000	21,000
Tennessee	53,000	54,000	50,000	51,000	49,000	17,000
Louisiana, Texas and Oklahoma	111,000	115,000	106,000	99,000	91,000	100,000
Missouri	210,000	191,000	169,000	185,000	168,000	146,000
Kansas	112,000	116,000	114,000	106,000	99,000	111,000
Iowa	10,000	12,000	12,000	12,000	11,000	13,000
Nebraska	52,000	57,000	56,000	68,000	58,000	55,000
Wisconsin, Minnesota, Dakotas	391,000	400,000	427,000	430,000	619,000	470,000
Rocky Mountain States	21,000	26,000	30,000	27,000	23,000	20,000
Pacific Coast States	2,850,000	2,940,000	3,070,000	3,070,000	3,000,000	2,950,000
Canada	110,000	120,000	110,000	100,000	120,000	110,000
Totals	4,471,000	4,571,000	4,701,000	4,698,000	4,649,000	3,633,000

1929—	January	February	March	April	May	June
New England	53,000	58,000	66,000	54,000	55,000	56,000
New York and New Jersey	118,000	109,000	99,000	90,000	88,000	89,000
Pennsylvania and Delaware	124,000	111,000	109,000	110,000	99,000	89,000
Maryland	46,000	45,000	43,000	44,000	46,000	45,000
Virginia and West Virginia	14,000	12,000	12,000	10,000	11,000	10,000
Ohio	73,000	68,000	74,000	77,000	96,000	93,000
Michigan	51,000	51,000	51,000	47,000	48,000	46,000
Indiana	59,000	56,000	55,000	90,000	53,000	56,000
Illinois	67,000	68,000	71,000	69,000	70,000	64,000
Kentucky	22,000	21,000	26,000	23,000	26,000	21,000
Tennessee	77,000	70,000	79,000	72,000	70,000	53,000
Louisiana, Texas and Oklahoma	114,000	99,000	94,000	98,000	85,000	79,000
Missouri	184,000	177,000	157,000	140,000	142,000	143,000
Kansas	118,000	118,000	110,000	111,000	110,000	100,000
Iowa	13,000	12,000	11,000	9,000	7,000	8,000
Nebraska	46,000	56,000	50,000	49,000	44,000	47,000
Wisconsin, Minnesota, Dakotas	256,000	265,000	273,000	311,000	462,000	457,000
Rocky Mountain States	18,000	21,000	20,000	21,000	21,000	19,000
Pacific Coast States	756,000	865,000	990,000	1,090,000	1,185,000	1,285,000
Canada	87,000	81,000	82,000	78,000	81,000	83,000
Totals	2,295,000	2,358,000	2,472,000	2,591,000	2,799,000	2,843,000

1929—	July	August	September	October	November	December
New England	52,000	50,000	50,000	51,000	57,000	62,000
New York and New Jersey	86,000	89,000	95,000	103,000	101,000	105,000
Pennsylvania and Delaware	93,000	97,000	88,000	89,000	92,000	99,000
Maryland	44,000	46,000	45,000	49,000	45,000	46,000
Virginia and West Virginia	9,000	11,000	14,000	14,000	12,000	12,000
Ohio	78,000	80,000	74,000	73,000	80,000	82,000
Michigan	40,000	42,000	43,000	41,000	39,000	42,000
Indiana	63,000	71,000	79,000	57,000	59,000	57,000
Illinois	70,000	66,000	68,000	65,000	67,000	66,000
Kentucky	24,000	33,000	26,000	37,000	26,000	24,000
Tennessee	53,000	17 000	73,000	79,000	74,000	76,000
Louisiana, Texas and Oklahoma	77,000	101,000	111,000	107,000	88,000	93,000
Missouri	156,000	168,000	200,000	190,000	149,000	156,000
Kansas	104,000	108,000	124,000	128,000	116,000	109,000
Iowa	10,000	13,000	14,000	13,000	13,000	13,000
Nebraska	51,000	52,000	55,000	50,000	51,000	48,000
Wisconsin, Minnesota, Dakotas	472,000	468,000	511,000	550,000	582,000	504,000
Rocky Mountain States	14,000	16,000	16,000	23,000	24,000	18,000
Pacific Coast States	1,385,000	1,460,000	1,595,000	1,735,000	1,870,000	2,010,000
Canada	90,000	87,000	93,000	100,000	95,000	110,000
Totals	2,971,000	3,075,000	3,374,000	3,554,000	3,638,000	3,732,000

1928—	January	February	March	April	May	June
New England	53,000	50,000	47,000	47,000	52,000	49,000
New York and New Jersey	125,000	112,000	98,000	90,000	89,000	80,000
Pennsylvania and Delaware	141,000	117,000	116,000	110,000	116,000	116,000
Maryland	51,000	46,000	49,000	47,000	49,000	45,000
Virginia and West Virginia	15,000	14,000	13,000	10,000	13,000	12,000
Ohio	72,000	70,000	152,000	86,000	75,000	65,000
Michigan	61,000	47,000	54,000	46,000	50,000	48,000
Indiana	63,000	56,000	59,000	91,000	57,000	56,000
Illinois	68,000	66,000	59,000	66,000	69,000	66,000
Kentucky	24,000	23,000	28,000	36,000	33,000	29,000
Tennessee	74,000	71,000	65,000	67,000	79,000	70,000
Louisiana, Texas and Oklahoma	101,000	93,000	89,000	88,000	80,000	73,000
Missouri	184,000	178,000	180,000	179,000	71,000	148,000
Kansas	113,000	112,000	111,000	92,000	94,000	111,000
Iowa	14,000	13,000	8,000	8,000	9,000	8,000
Nebraska	52,000	45,000	37,000	56,000	56,000	49,000
Wisconsin, Minnesota, Dakotas	318,000	353,000	321,000	416,000	534,000	369,000
Rocky Mountain States	18,000	21,000	20,000	21,000	19,000	17,000
Pacific Coast States	475,000	610,000	610,000	463,000	490,000	560,000
Canada	80,000	77,000	70,000	72,000	75,000	81,000
Totals	2,102,000	2,074,000	2,085,000	2,089,000	2,110,000	2,082,000

1928—	July	August	September	October	November	December
New England	48,000	50,000	46,000	52,000	58,000	56,000
New York and New Jersey	78,000	85,000	94,000	98,000	100,000	108,000
Pennsylvania and Delaware	117,000	104,000	93,000	94,000	99,000	119,000
Maryland	43,000	44,000	49,000	54,000	51,000	47,000
Virginia and West Virginia	13,000	14,000	17,000	22,000	15,000	15,000
Ohio	62,000	67,000	70,000	72,000	71,000	75,000
Michigan	49,000	46,000	42,000	39,000	40,000	42,000
Indiana	81,000	77,000	53,000	57,000	57,000	66,000
Illinois	63,000	58,000	62,000	56,000	69,000	68,000
Kentucky	21,000	23,000	25,000	27,000	27,000	24,000
Tennessee	59,000	58,000	80,000	74,000	76,000	79,000
Louisiana, Texas and Oklahoma	78,000	99,000	105,000	104,000	111,000	116,000
Missouri	156,000	184,000	200,000	203,000	192,000	175,000
Kansas	104,000	113,000	130,000	117,000	123,000	120,000
Iowa	8,000	11,000	13,000	13,000	14,000	15,000
Nebraska	43,000	50,000	57,000	54,000	58,000	56,000
Wisconsin, Minnesota, Dakotas	328,000	321,000	356,000	463,000	508,000	436,000
Rocky Mountain States	18,000	19,000	20,000	26,000	24,000	20,000
Pacific Coast States	650,000	535,000	580,000	605,000	645,000	655,000
Canada	76,000	78,000	86,000	88,000	86,000	94,000
Totals	1,995,000	2,036,000	2,178,000	2,329,000	2,324,000	2,386,000

1927—	January	February	March	April	May	June
New England	46,000	41,000	48,000	59,000	48,000	52,000
New York and New Jersey	133,000	110,000	98,000	92,000	91,000	89,000
Pennsylvania and Delaware	210,000	195,000	170,000	153,000	146,000	127,000
Maryland	46,000	43,000	40,000	41,000	40,000	44,000
Virginia and West Virginia	13,000	14,000	10,000	11,000	10,000	13,000
Ohio	76,000	77,000	63,000	60,000	76,000	83,000
Michigan	50,000	48,000	44,000	43,000	43,000	52,000
Indiana	52,000	49,000	44,000	37,000	48,000	49,000
Illinois	78,000	69,000	63,000	62,000	57,000	62,000
Kentucky	28,000	29,000	27,000	22,000	20,000	19,000
Tennessee	24,000	23,000	27,000	33,000	33,000	49,000
Louisiana, Texas and Oklahoma	113,000	115,000	83,000	83,000	77,000	84,000
Missouri	185,000	181,000	161,000	173,000	180,000	171,000
Kansas	126,000	117,000	108,000	107,000	106,000	84,000
Iowa	14,000	13,000	12,000	12,000	11,000	10,000
Nebraska	41,000	46,000	43,000	51,000	53,000	54,000
Wisconsin, Minnesota, Dakotas	437,000	459,000	292,000	331,000	268,000	373,000
Rocky Mountain States	15,000	17,000	14,000	14,000	18,000	18,000
Pacific Coast States	625,000	635,000	590,000	626,000	475,000	485,000
Canada	86,000	84,000	72,000	76,000	83,000	90,000
Totals	2,389,000	2,364,000	1,999,000	1,983,000	1,982,000	2,007,000

1927—	July	August	September	October	November	December
New England	46,000	43,000	42,000	46,000	47,000	55,000
New York and New Jersey	88,000	87,000	93,000	98,000	106,000	116,000
Pennsylvania and Delaware	113,000	106,000	97,000	93,000	116,000	132,000
Maryland	47,000	43,000	40,000	43,000	46,000	48,000
Virginia and West Virginia	13,000	11,000	19,000	16,000	16,000	16,000
Ohio	82,000	77,000	88,000	86,000	73,000	80,000
Michigan	48,000	39,000	43,000	49,000	52,000	60,000
Indiana	43,000	60,000	62,000	62,000	81,000	70,000
Illinois	60,000	58,000	61,000	65,000	71,000	68,000
Kentucky	18,000	25,000	24,000	25,000	28,000	29,000
Tennessee	46,000	35,000	34,000	73,000	74,000	75,000
Louisiana, Texas and Oklahoma	88,000	98,000	106,000	100,000	113,000	96,000
Missouri	156,000	434,000	198,000	205,000	201,000	182,000
Kansas	107,000	109,000	111,000	109,000	118,000	98,000
Iowa	8,000	13,000	11,000	13,000	15,000	16,000
Nebraska	47,000	46,000	53,000	67,000	69,000	55,000
Wisconsin, Minnesota, Dakotas	333,000	277,000	312,000	428,000	526,000	560,000
Rocky Mountain States	15,000	17,000	18,000	19,000	28,000	22,000
Pacific Coast States	576,000	450,000	476,000	550,000	540,000	500,000
Canada	78,000	71,000	78,000	80,000	92,000	90,000
Totals	2,009,000	2,098,000	1,964,000	2,227,000	2,408,000	2,348,000

UNITED STATES—BONDED GRAIN STOCKS

Stocks of bonded grain in the United States in 1929 and 1930, by weeks, in bushels (000's omitted):

1930—	Wheat	Oats	Rye	Barley	1929—	Wheat	Oats	Rye	Barley
Jan. 4	35,464	700	431	3,017	Jan. 5	38,339	868	270	5,002
Jan. 11	35,112	700	431	3,007	Jan. 12	36,769	795	270	4,435
Jan. 18	34,583	698	431	3,009	Jan. 19	34,522	864	270	3,475
Jan. 25	33,854	688	431	3,022	Jan. 26	33,075	917	350	3,357
Feb. 1	33,108	634	431	3,001	Feb. 2	30,713	703	290	3,214
Feb. 8	31,613	654	375	2,976	Feb. 9	30,373	769	522	3,335
Feb. 15	30,655	650	375	2,934	Feb. 16	29,378	739	522	2,701
Feb. 22	28,954	546	375	2,962	Feb. 23	27,876	708	707	2,349
March 1	29,211	614	372	2,927	March 2	27,415	800	658	2,191
March 8	27,250	610	371	2,911	March 9	25,581	660	483	2,287
March 15	25,740	584	372	2,855	March 16	24,545	611	439	2,206
March 22	24,787	577	374	2,816	March 23	23,660	550	439	2,302
March 29	23,366	489	370	2,780	March 30	22,533	515	439	1,854
April 5	21,828	136	373	2,763	April 6	21,872	390	440	1,622
April 12	21,500	352	428	2,762	April 13	19,591	608	422	1,765
April 19	20,165	361	426	2,737	April 20	21,158	460	400	1,645
April 26	18,901	347	425	2,728	April 27	27,484	676	366	1,778
May 3	17,770	333	427	2,715	May 4	27,266	722	480	2,587
May 10	18,051	281	427	2,699	May 11	27,998	710	460	2,387
May 17	16,628	301	426	2,491	May 18	26,434	688	456	3,060
May 24	14,854	284	288	2,450	May 25	26,890	601	457	3,513
May 31	16,133	265	270	2,376	June 1	25,480	576	599	3,759
June 7	15,424	166	188	2,376	June 8	26,394	653	557	4,020
June 14	15,906	262	188	2,378	June 15	23,385	495	414	4,154
June 21	16,902	128	188	2,429	June 22	23,869	490	441	3,614
June 28	18,520	91	188	2,376	June 29	22,889	377	379	3,335
July 5	18,329	90	185	2,347	July 6	22,305	331	278	3,487
July 12	17,341	97	188	2,165	July 13	23,164	287	500	3,259
July 19	17,601	71	188	2,116	July 20	23,623	386	312	3,253
July 26	17,853	154	188	1,813	July 27	22,881	253	386	3,234
Aug. 2	18,419	140	187	1,838	Aug. 3	22,859	341	393	3,273
Aug. 9	16,620	149	192	1,616	Aug. 10	22,361	342	432	3,146
Aug. 16	15,445	149	184	1,442	Aug. 17	21,746	338	427	3,001
Aug. 23	13,392	238	171	1,404	Aug. 24	22,128	341	429	3,002
Aug. 30	13,269	21	171	1,300	Aug. 31	21,037	341	432	3,014
Sept. 6	16,895	5	162	1,125	Sept. 7	21,361	288	429	3,093
Sept. 13	20,107	55	171	1,125	Sept. 14	21,205	268	432	3,076
Sept. 20	20,262	55	172	970	Sept. 21	20,812	287	429	1,093
Sept. 27	18,740	55	173	725	Sept. 28	19,372	263	320	1,654
Oct. 4	20,267	49	239	899	Oct. 5	23,586	286	429	1,865
Oct. 11	21,134	55	302	761	Oct. 12	26,612	283	429	1,859
Oct. 18	22,122	51	278	736	Oct. 19	26,776	280	432	2,094
Oct. 25	23,302	34	278	865	Oct. 26	28,521	414	429	1,670
Nov. 1	23,521	27	214	1,017	Nov. 2	29,528	429	429	1,959
Nov. 8	21,052	27	221	1,041	Nov. 9	30,076	429	428	2,056
Nov. 15	26,788	7	175	1,003	Nov. 16	30,722	517	429	2,071
Nov. 22	26,649	4	209	1,674	Nov. 23	32,757	510	431	2,645
Nov. 29	27,924	7	435	1,561	Nov. 30	35,302	670	431	3,166
Dec. 6	28,254	255	396	1,136	Dec. 7	38,766	681	431	3,141
Dec. 13	27,571	255	395	1,381	Dec. 14	36,923	678	431	3,413
Dec. 20	26,359	255	322	1,351	Dec. 21	35,670	689	431	3,093
Dec. 27	26,525	255	273	1,319	Dec. 28	36,311	699	431	3,085

STOCKS OF GRAIN IN CANADA AT THE END OF THE CROP YEAR JULY 31, 1930

The Dominion Bureau of Statistics has collected and compiled data showing complete stocks of grain in Canada at the close of the crop year July 31, 1930. Stocks are as follows, in bushels:

Public and private terminal elevators, Fort William and Port Arthur	Wheat	Oats	Barley	Flaxseed	Rye	Totals
	36,512,417	1,513,696	13,708,606	387,515	5,375,258	57,527,492
Interior terminal elevators, western division	2,808,006	188,195	23,218	1,082	16,296	3,037,697
Vancouver terminal and private elevators	7,652,353	65,453	11,016	52	25,311	7,754,185
Duluth-Superior	28,000	5,000	75,000	98,246	.....	207,246
Prince Rupert private elevator	891,623	284	94	.....	.....	892,001
Country, private and manufacturing elevators, western division	16,820,322	2,581,324	2,671,951	48,853	543,093	22,665,543
Public elevators in East	21,371,632	2,785,113	1,856,514	.....	1,561,892	27,575,151
In transit—railways	5,420,668	626,099	606,722	37,710	1,081,623	7,772,822
In flour mills, estimated	7,500,000	1,300,000	60,000	.....	3,000	8,863,630
Afloat for unloading at Canadian ports	7,358,498	295,916	776,529	59,600	419,583	8,910,126
In farmers' hands	5,326,000	12,020,000	3,050,000	3,600	146,000	20,545,600
Totals—1930	111,692,519	21,411,710	22,840,550	636,658	9,192,059	165,773,498
1929	104,353,221	45,165,498	11,020,947	561,487	1,219,756	163,320,909
1928	77,626,071	28,604,980	3,459,693	1,296,317	2,081,615	112,036,494

Kansas City Board of Trade

President, Frank A. Theis; first vice president, W. B. Lincoln; second vice president, J. S. Hart; secretary, W. R. Scott; treasurer, H. P. Hall.

Memphis Merchants' Exchange

President, Charles B. Stout; vice president, Harry B. McCoy; secretary, James R. McGinnis.

United States—Visible Grain Supply

Visible supply of grain at principal points of accumulation at lake and Atlantic ports, and in transit by water, as reported by the Chicago Board of Trade, on the first day of each month, by years, in bushels (000,000's omitted):

WHEAT

	'30	'29	'28	'27	'26	'25	'24	'23	'22	'21
Jan....	178	130	86	64	50	91	75	[illegible]	[illegible]	[illegible]
Feb....	163	127	77	66	41	78	67	[illegible]	[illegible]	34
March.	156	123	71	63	39	[illegible]	64	[illegible]	41	28
April..	149	123	67	49	32	60	60	16	36	[illegible]
May...	133	113	62	38	28	16	51	[illegible]	31	13
June...	117	96	19	27	[illegible]	35	13	33	[illegible]	9
July...	107	93	39	[illegible]	12	27	35	26	18	10
Aug...	156	137	62	31	30	30	42	[illegible]	20	25
Sept...	188	182	88	61	64	33	69	[illegible]	27	[illegible]
Oct....	206	191	110	78	75	49	82	[illegible]	32	[illegible]
Nov....	198	191	134	88	72	[illegible]	90	69	31	51
Dec....	196	186	137	91	[illegible]	46	100	72	33	48

CORN

	'30	'29	'28	'27	'26	'25	'24	'23	'22	'21
Jan.....	8	17	27	35	18	19	10	16	23	5
Feb.....	15	26	32	[illegible]	29	28	[illegible]	22	27	14
March..	23	33	41	[illegible]	35	32	19	28	41	22
April...	24	31	[illegible]	47	36	34	26	29	47	[illegible]
May....	20	25	[illegible]	37	32	23	18	22	[illegible]	23
June....	11	14	[illegible]	30	[illegible]	17	12	[illegible]	27	15
July....	7	13	10	[illegible]	30	13	[illegible]	[illegible]	29	25
Aug.....	4	9	13	[illegible]	25	6	5	2	20	15
Sept....	4	5	10	22	20	7	5	2	7	10
Oct.....	5	[illegible]	[illegible]	24	17	5	[illegible]	[illegible]	12	[illegible]
Nov.....	4	3	[illegible]	21	22	[illegible]	[illegible]	1	9	19
Dec.....	[illegible]	3	6	19	29	9	8	3	11	16

RYE

	'30	'29	'28	'27	'26	'25	'24	'23	'22	'21
Jan.....	13	6	3	13	13	21	19	10	7	[illegible]
Feb.....	14	6	4	13	14	23	20	12	[illegible]	[illegible]
March..	[illegible]	6	4	[illegible]	14	23	21	15	7	[illegible]
April...	14	[illegible]	[illegible]	[illegible]	13	20	21	18	[illegible]	2
May....	[illegible]	[illegible]	6	[illegible]	[illegible]	[illegible]	20	19	[illegible]	1
June....	12	7	3	[illegible]	[illegible]	10	19	17	[illegible]	1
July....	12	[illegible]	[illegible]	1	[illegible]	[illegible]	17	16	[illegible]	1
Aug.....	12	[illegible]	2	1	[illegible]	6	14	13	1	1
Sept....	14	[illegible]	1	[illegible]	10	6	15	13	[illegible]	4
Oct.....	16	10	[illegible]	[illegible]	11	9	12	15	[illegible]	5
Nov.....	16	11	[illegible]	[illegible]	13	10	17	17	8	[illegible]
Dec.....	17	[illegible]	[illegible]	[illegible]	13	11	21	17	10	[illegible]

OATS

	'30	'29	'28	'27	'26	'25	'24	'23	'22	'21
Jan.....	[illegible]	[illegible]	22	45	[illegible]	[illegible]	21	32	68	32
Feb.....	[illegible]	14	20	[illegible]	[illegible]	[illegible]	18	31	67	51
March..	[illegible]	15	20	[illegible]	[illegible]	72	18	28	70	34
April....	18	13	16	37	52	64	[illegible]	24	65	34
May....	16	10	11	30	47	48	[illegible]	22	56	51
June....	13	9	7	21	39	35	7	14	49	30
July....	11	7	3	18	38	33	[illegible]	9	43	34
Aug....	8	8	2	12	34	26	3	6	37	38
Sept....	[illegible]	23	13	[illegible]	41	51	[illegible]	10	38	59
Oct.....	30	26	15	25	48	66	53	17	36	66
Nov.....	31	30	14	24	48	65	67	20	35	70
Dec.....	28	28	13	23	48	64	67	19	33	69

UNITED STATES AND CANADA—WHEAT STOCKS

Wheat stocks in the United States and Canada on the first day of each month in 1930, as reported by the Chicago Daily Trade Bulletin and the Minneapolis Market Record, in bushels (000's omitted):

1930—	January	February	March	April	May	June
New England	309	238	225	[illegible]	222	[illegible]
New York and New Jersey	21,111	16,939	12,261	[illegible]	6,981	8,712
Pennsylvania and Delaware	993	801	638	[illegible]	468	[illegible]
Maryland	4,891	1,130	3,199	2,609	1,216	[illegible]
Virginia and West Virginia	1,443	1,355	1,321	1,297	1,219	1,313
Ohio	1,966	1,7[illegible]	3,868	3,065	1,925	2,489
Michigan	380	31[illegible]	388	[illegible]	315	252
Indiana	2,887	2,082	1,527	1,161	1,069	1,223
Illinois	25,645	24,087	22,860	[illegible]	20,835	16,375
Kentucky	1,[illegible]	1,511	[illegible]	[illegible]	609	364
Tennessee	779	682	606	653	733	361
Louisiana, Texas and Oklahoma	12,243	8,836	8,000	6,968	6,116	5,111
Missouri	31,419	34,104	32,784	31,693	29,023	25,014
Kansas	12,258	11,068	10,063	9,181	6,305	3,234
Iowa	991	850	[illegible]	710	403	357
Nebraska	10,770	8,707	8,221	7,777	5,611	4,335
Wisconsin, Minnesota and Dakotas	103,427	97,263	89,982	84,720	83,870	76,842
Rocky Mountain States	391	383	316	251	232	155
Pacific Coast States	7,810	6,358	6,199	6,086	4,867	4,153
Lakes, canal and rivers	[illegible]	[illegible]	[illegible]	[illegible]	704	120
Canada	222,589	213,473	209,517	191,977	173,909	142,7[illegible]
Totals	470,651	437,951	444,231	386,544	346,698	294,102
Totals—1929	412,974	384,273	363,832	338,530	311,150	[illegible]
1928	291,770	252,333	265,730	247,276	249,346	[illegible]
1927	236,350	218,137	[illegible]	187,043	[illegible]	[illegible]
1926	[illegible]	211,082	[illegible]	171,747	[illegible]	[illegible]
1925	[illegible]	[illegible]	200,161	179,057	[illegible]	[illegible]
1924	[illegible]	[illegible]	240,332	224,508	[illegible]	131,894
1923	[illegible]	208,935	196,897	173,798	153,288	103,471

1930—	July	August	September	October	Nov'mber	Dec'mber
New England	160	[illegible]	[illegible]	57	46	53
New York and New Jersey	9,309	9,863	[illegible]	19,590	20,334	26,973
Pennsylvania and Delaware	105	1,176	[illegible]	1,071	926	777
Maryland	827	5,668	[illegible]	8,387	8,069	7,785
Virginia and West Virginia	883	935	1,114	1,253	1,115	1,152
Ohio	2,202	6,036	7,171	6,773	5,775	5,466
Michigan	238	402	468	579	503	199
Indiana	1,215	1,197	4,482	3,683	3,384	2,841
Illinois	12,117	19,332	21,[illegible]	23,555	20,971	20,708
Kentucky	226	2,019	2,191	[illegible]	2,612	2,422
Tennessee	222	[illegible]	1,725	[illegible]	1,690	1,134
Louisiana, Texas and Oklahoma	8,508	18,415	22,521	25,201	21,961	23,216
Missouri	22,016	37,684	40,831	39,532	37,437	36,920
Kansas	3,723	11,113	12,714	[illegible]	10,053	12,075
Iowa	173	811	1,389	[illegible]	1,294	1,280
Nebraska	3,901	10,109	16,070	17,148	[illegible]	14,472
Wisconsin, Minnesota and Dakotas	70,759	[illegible]	106,211	119,610	[illegible]	96,016
Rocky Mountain States	195	[illegible]	654	575	360	[illegible]
Pacific Coast States	3,170	5,750	9,741	10,831	7,663	6,304
Lakes, canal and rivers	973	1,111	753	981	238	1,169
Canada	121,272	102,985	86,599	154,361	173,595	194,211
Totals	265,791	304,895	360,401	450,528	442,433	456,079
Totals—1929	231,057	276,214	342,254	422,763	479,069	478,217
1928	147,736	148,176	156,647	217,822	349,664	366,780
1927	82,652	99,171	[illegible]	[illegible]	217,139	265,017
1926	65,648	81,921	[illegible]	[illegible]	[illegible]	244,254
1925	81,406	[illegible]	[illegible]	158,282	[illegible]	202,818
1924	97,889	[illegible]	127,540	149,216	200,766	235,428
1923	76,887	76,470	93,059	146,008	204,463	238,198

Wheat on Farms July 1

Department of Agriculture estimates of the total amount of wheat in farmers' hands in the United States on July 1, in bushels (000's omitted):

1930	46,834	1917	15,611
1929	45,483	1916	[illegible]
1928	[illegible]	1915	28,972
1927	27,222	1914	32,236
1926	20,932	1913	35,515
[illegible]	29,357	1912	[illegible]
1924	30,931	1911	34,071
1923	35,894	1910	36,725
1922	32,359	1909	[illegible]
1921	56,707	1908	33,188
1920	[illegible]	1907	[illegible]
1919	19,261	1906	47,393
1918	8,063	1905	25,515

Wheat at Interior Points, July 1

Stocks of old-crop wheat in interior mills and elevators, on July 1, reported by the Department of Agriculture. The report includes stocks not shown in Bureau of Census compilation of stocks of wheat in merchant mills and elevators. Figures in bushels (000's omitted):

State—	1927	1928	1929	1930
New England	150	157	201	168
New York	725	600	720	650
New Jersey	100	[illegible]	[illegible]	135
Pennsylvania	1,500	[illegible]	910	820
Ohio	1,350	550	660	900
Indiana	960	[illegible]	630	850
Illinois	700	[illegible]	1,080	1,550
Michigan	800	520	680	[illegible]
Wisconsin	[illegible]	[illegible]	100	[illegible]
Minnesota	1,133	[illegible]	1,700	[illegible]
Iowa	[illegible]	[illegible]	280	400
Missouri	575	390	975	1,170
North Dakota	1,200	[illegible]	[illegible]	12,800
South Dakota	100	[illegible]	[illegible]	1,950
Nebraska	630	720	2,300	1,100
Kansas	500	330	2,000	2,200
Maryland	180	100	150	120
Virginia	350	[illegible]	250	[illegible]
Kentucky	250	[illegible]	[illegible]	[illegible]
Tennessee	280	[illegible]	[illegible]	[illegible]
Oklahoma	600	270	[illegible]	1,200
Texas	250	70	60	600
Other southern	475	[illegible]	[illegible]	[illegible]
Montana	2,450	2,800	1,930	5,450
Idaho	480	800	2,000	2,000
Colorado	360	250	[illegible]	[illegible]
New Mexico	[illegible]	[illegible]	120	[illegible]
Utah	120	100	300	[illegible]
Washington	1,000	[illegible]	6,500	[illegible]
Oregon	450	[illegible]	1,300	2,000
California	300	400	[illegible]	700
Other western	[illegible]	[illegible]	[illegible]	[illegible]
United States	21,776	19,277	[illegible]	54,011

WHEAT SUPPLIES MARCH 1

Total supplies of wheat in the United States on March 1, as reported by the Department of Agriculture, in bushels:

	On farms	Commercial visible	Country mills and elevators	Total
1930	129,153,000	165,174,000	95,950,000	390,277,000
1929	151,396,000	130,031,000	82,119,000	363,819,000
1928	130,944,000	71,357,000	75,428,000	277,729,000
1927	130,274,000	53,306,000	85,928,000	269,508,000
1926	100,174,000	38,925,000	76,376,000	215,475,000
1925	112,095,000	70,677,000	67,673,000	250,445,000
1924	137,721,000	64,072,000	98,284,000	300,077,000
1923	156,087,000	54,562,000	102,908,000	313,557,000
1922	[illegible]	46,714,000	75,071,000	256,038,000
1921	217,037,000	31,915,000	87,075,000	337,057,000
1920	169,904,000	58,632,000	123,233,000	351,769,000
1919	128,703,000	127,207,000	107,037,000	362,947,000
1918	107,745,000	15,484,000	66,138,000	189,367,000
1917	100,650,000	54,160,000	89,173,000	243,983,000

WHEAT HELD BY COUNTRY MILLS AND ELEVATORS

Department of Agriculture estimates of wheat held by interior mills and elevators, as distinguished from primary markets of large accumulations, on March 1 of the past nine years, in bushels (000's omitted):

State—	1922	1923	1924	1925	1926	1927	1928	1929	1930
New York	923	980	816	612	900	977	629	721	[illegible]
Pennsylvania	2,337	2,719	2,434	2,437	2,700	4,236	2,030	1,500	1,425
Ohio	3,018	4,245	4,706	3,345	[illegible]	3,635	1,453	[illegible]	3,100
Indiana	2,298	2,893	3,425	2,318	2,570	3,064	1,665	[illegible]	2,200
Illinois	3,746	3,326	3,750	2,659	2,950	2,052	1,742	1,394	[illegible]
Michigan	1,261	1,719	2,321	2,215	[illegible]	2,160	[illegible]	1,111	[illegible]
Wisconsin	231	511	236	334	[illegible]	390	500	300	[illegible]
Minnesota	2,041	3,819	3,274	3,758	3,935	3,474	2,720	[illegible]	[illegible]
Iowa	796	1,974	349	519	[illegible]	565	494	519	[illegible]
Missouri	2,901	3,494	3,311	1,711	2,702	[illegible]	1,093	[illegible]	[illegible]
North Dakota	8,075	20,259	9,283	11,315	15,733	12,333	[illegible]	19,100	[illegible]
South Dakota	2,000	6,002	2,201	2,813	[illegible]	1,974	[illegible]	3,472	[illegible]
Nebraska	2,634	5,385	2,197	3,511	[illegible]	2,806	[illegible]	3,485	[illegible]
Kansas	6,692	8,600	5,028	7,998	6,191	[illegible]	[illegible]	3,808	[illegible]
Oklahoma	2,224	1,568	2,277	[illegible]	2,175	[illegible]	1,500	3,000	[illegible]
Texas	1,124	500	[illegible]	1,010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Montana	5,115	7,907	[illegible]	4,144	4,903	[illegible]	[illegible]	[illegible]	[illegible]
Washington	9,086	5,438	12,916	2,902	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
All other	18,569	21,513	28,022	9,626	[illegible]	17,[illegible]	[illegible]	18,191	[illegible]
U. States	75,071	102,908	[illegible]	67,673	76,376	[illegible]	75,428	[illegible]	[illegible]

RUSSELL—WHEAT AND FLOUR DISTRIBUTION

Estimates of the wheat and flour distribution of the past seven crop years, as reported by Russell's Commercial News (000's omitted throughout):

WHEAT MOVEMENT FROM FARMS, BUS

	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
On farms July 1	32,359	35,894	30,980	29,318	20,976	27,215	23,729	45,483
Crop	867,598	797,381	864,485	676,424	831,040	878,374	914,876	809,176
Totals	900,957	833,275	895,108	705,772	852,016	905,589	938,605	854,659
Moved from farms	715,000	661,000	758,000	625,000	753,000	746,000	779,000	695,000
Used for seed	89,306	78,813	84,014	83,038	89,824	91,679	88,000	87,209
On farms end of year	35,894	30,980	29,318	20,973	27,215	23,729	45,483	46,851
Totals	870,200	773,793	874,372	723,011	870,039	864,108	912,483	829,063
Farm use	30,757	59,482	21,036	†17,239	†18,023	41,481	25,582	25,596

†Deficit; crop apparently underestimated.

WHEAT USE OFF FARMS, BUS

	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
All stocks July 1	49,098	66,520	75,500	*83,500	*75,200	*96,000	*102,300	*199,300
Moved from farms	745,000	664,000	758,000	625,000	753,000	741,000	779,000	695,000
Imported	18,012	27,283	6,330	15,657	13,204	15,705	21,200	13,100
Totals	812,110	757,803	839,830	724,157	841,048	852,705	902,500	907,400
Wheat exported	161,951	78,792	194,911	63,178	156,040	145,955	103,000	92,174
Wheat ground	583,300	599,500	583,173	579,050	586,100	582,000	589,800	581,500
Stocks end of year	66,520	75,500	56,800	*75,200	*96,000	*103,000	*199,[illegible]	*22[illegible],1[illegible]
Totals	801,771	747,325	834,884	[illegible]	838,140	830,955	892,100	899,834
Miscellaneous use off farms	7,339	4,010	4,946	6,729	2,908	21,750	10,400	[illegible]

*Includes census bureau's report of large mill stocks.

FLOUR PRODUCTION AND CONSUMPTION, BBLS

	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
Stocks July 1	5,500	6,900	6,800	5,900	6,500	6,250	6,200	8,000
Production	129,609	129,761	127,985	121,894	125,[illegible]	126,016	128,569	[illegible]
Imports	430	162	6	[illegible]	[illegible]	[illegible]	3	[illegible]
Totals	135,539	136,826	134,791	130,811	132,122	132,268	[illegible]	[illegible]
Exported	14,883	17,253	13,896	9,542	13,381	12,[illegible]	[illegible]	[illegible]
Stocks end of year	6,900	6,800	5,900	6,500	6,200	6,200	[illegible]	[illegible]
Totals	21,783	24,053	19,796	16,042	19,581	19,116	[illegible]	22,308
Home use	113,756	112,773	114,995	[illegible]	115,541	113,152	[illegible]	112,350
Pounds per capita*	202.7	198.4	196.2	193.2	191.9	185.9	[illegible]	179.5

*Average per capita flour consumption for the eight years ended 1921 as figured by Dr. A. E. Taylor, of the Leland Stanford Research Bureau, is 197.7 lbs, and by The Northwestern Miller 193.1 lbs.

UNITED STATES—WHEAT SUPPLIES AND DISTRIBUTION

Wheat crops of the United States, with supplies carried over, as compared with the quantities used for seed, exported and used for domestic consumption, as estimated by the Chicago Daily Trade Bulletin, by crop years ended June 30, in millions of bushels (000,000's omitted):

	Total supplies—	Supply on hand—			Total distribution	Left on hand—			
	Crop	Farmers' hands	Second hands	*Total supply	Seeding	Farmers' hands	Second hands	Exports	Consumption
1929-30	809	[illegible]	134	1,0[illegible]1	[illegible]	[illegible]	[illegible]	150	[illegible]
1928-29	915	[illegible]	58	1,018	90	[illegible]	134	164	585
1927-28	878	[illegible]	[illegible]	965	96	[illegible]	58	207	580
1926-27	831	[illegible]	[illegible]	907	[illegible]	27	[illegible]	219	632
1925-26	676	[illegible]	57	778	[illegible]	[illegible]	39	106	539
1924-25	864	31	75	976	85	29	57	268	647
1923-24	797	36	[illegible]	928	80	31	[illegible]	156	586
1922-23	869	32	43	969	[illegible]	36	67	222	554
1921-22	815	[illegible]	[illegible]	913	85	32	[illegible]	280	473
1920-21	833	48	103	1,035	85	54	35	366	605
1919-20	968	20	[illegible]	1,027	90	[illegible]	103	220	666
1918-19	921	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	289	507
1917-18	637	16	33	708	95	8	20	133	452
1916-17	636	74	[illegible]	824	80	16	33	204	492
1915-16	1,025	29	26	1,080	[illegible]	[illegible]	89	243	590
1914-15	891	32	[illegible]	967	86	33	24	333	493
1913-14	763	35	55	853	82	33	[illegible]	146	543
1912-13	730	[illegible]	54	808	71	35	65	143	504
1911-12	621	[illegible]	58	713	72	[illegible]	54	80	483

*Includes imports.

Pounds to the Quarter in Grain

Funch, Edye & Co., Inc., New York, have prepared this table of grain equivalents as recognized in quoting ocean rates:

	Lbs to bu	Quarter equals lbs
Wheat or peas	60	[illegible]
Corn	56	[illegible]
Rye	56	480
Barley	[illegible]	[illegible]
Oats	[illegible]	320
Buckwheat	[illegible]	[illegible]
Flaxseed	[illegible]	459

Bushels per Carload

Average number of bushels of grain per carload, estimated on total yearly grain receipts by rail at Chicago:

	1930	1929	1928	1927	1926
Wheat	1,498	1,453	1,419	1,399	1,393
Corn	1,546	1,496	1,482	[illegible]	1,493
Oats	2,293	2,149	2,045	2,167	1,901
Rye	1,5[illegible]	1,311	[illegible]	1,272	1,294
Barley	1,[illegible]	1,532	1,599	[illegible]	1,518
Flaxseed	1,524	1,572	1,253	[illegible]	1,495

UNITED STATES—PRODUCTION AND CONSUMPTION OF WHEAT FLOUR

The following table, prepared by the Millers' National Federation, shows the production and approximate disposition of wheat flour between the bakery and family trade in the United States. The production figures were taken from the 1925 census of manufactures. In general, the other data represent the calculation of the Federation, based on the Bureau of the Census or the Department of Agriculture figures. The consumption figures are for the year 1924, while production data are for 1925, but since the variation in production for domestic consumption from year to year is slight and the consumption figures represent a constructive average, based upon a five-year period, therefore they are as representative of 1925 as of 1924. The Federation states that the tabulation is not offered as an absolutely accurate accounting of the distribution of flour by states and as between bakery and family trade, but as merely indicating the approximate proportion of such disposition.

Surplus states—	Production, bbls	Total consumption, bbls	Bakery consumption, bbls	Family consumption, bbls	Surplus or deficiency prod. over consumption, bbls	Total per capita consumption, bbls	Total per capita consumption, lbs	Per capita bakery consumption, bbl	Per capita family consumption, bbl
Colorado	1,742,041	1,030,498	321,028	709,470	711,543	4.1	1.011	.315	.696
Idaho	782,827	486,658	38,116	448,542	296,169	4.6	.989	.077	.912
Indiana	3,549,155	2,895,154	939,344	1,895,810	654,001	4.4	.946	.327	.619
Kansas	15,296,251	1,754,970	*305,591	1,449,379	13,541,281	4.5	.968	.123	.845
Kentucky	2,668,193	1,873,783	*198,034	1,675,749	194,410	3.5	.753	.080	.673
Minnesota	22,677,782	2,645,584	739,917	1,905,667	19,882,118	4.8	1.032	.299	.743
Missouri	7,899,181	2,981,432	1,470,062	1,511,370	4,917,749	4.0	.860	.434	.436
Montana	1,963,222	626,108	101,946	524,162	1,337,114	4.5	.968	.158	.810
Nebraska	2,830,447	1,311,999	*239,948	1,072,051	1,518,448	4.5	.968	.177	.791
New York	12,523,391	10,078,422	6,679,736	3,399,686	2,443,969	4.2	.903	.498	.305
North Dakota	1,493,607	708,390	90,502	617,888	987,217	4.8	1.032	.132	.900
Oklahoma	2,366,707	2,263,160	231,618	2,031,543	103,547	4.7	1.011	.103	.908
Oregon	2,545,196	873,185	279,010	594,125	1,672,971	4.8	1.032	.330	.702
Tennessee	2,297,944	1,468,136	192,076	1,476,060	559,808	3.2	.688	.079	.609
Utah	1,038,691	808,337	65,536	442,701	630,454	4.8	1.032	.132	.899
Washington	3,764,486	1,494,474	374,003	1,120,472	2,270,012	4.7	1.011	.353	.758
Totals	84,921,961	33,201,140	13,326,466	20,874,674	51,720,811	14.2	1.916	1.340	1.576
Deficiency states—									
Alabama	26,418	1,857,794	*122,141	1,735,653	1,831,376	3.5	.753	.050	.703
Arizona	124,679	420,748	*66,583	354,165	296,069	4.8	1.032	.163	.869
Arkansas	121,140	1,395,237	*94,454	1,300,783	1,274,097	3.5	.753	.051	.702
California	1,614,604	3,804,169	2,028,613	1,775,556	2,189,565	4.4	.946	.504	.442
Connecticut	.....	1,316,879	528,822	788,057	1,316,879	4.0	.860	.345	.515
Delaware	72,970	196,930	*81,901	115,029	124,040	3.9	.839	.349	.490
D. of Columbia	50,000	503,383	300,452	202,931	453,383	4.7	1.011	.603	.408
Florida	.....	1,086,652	*284,748	801,904	1,086,652	4.0	.860	.225	.635
Georgia	576,990	2,302,870	*217,196	2,085,676	1,726,880	3.5	.753	.071	.682
Illinois	5,164,650	6,588,427	2,810,680	3,777,747	1,423,777	4.4	.946	.404	.542
Iowa	1,316,717	2,589,913	680,295	1,529,617	893,195	4.1	.882	.375	.507
Louisiana	.....	1,615,961	448,828	1,167,133	1,615,961	4.0	.860	.239	.621
Maine	11,421	706,635	*131,858	574,777	695,214	4.5	.903	.168	.735
Maryland	725,250	1,289,614	*578,490	711,124	564,364	3.9	.839	.376	.463
Massachusetts	.....	3,920,418	2,069,022	1,851,396	3,920,418	4.4	.946	.499	.447
Michigan	2,253,660	3,930,275	1,608,731	2,321,544	1,676,615	4.4	.946	.387	.559
Mississippi	.....	1,348,335	90,456	1,257,879	1,348,335	3.5	.753	.051	.702
Nevada	48,022	78,258	8,614	69,644	30,236	4.7	1.011	.111	.900
N. Hampshire	.....	425,862	*120,366	305,497	425,862	4.4	.946	.267	.679
New Jersey	137,093	3,166,204	1,568,277	1,598,027	3,029,211	4.2	.903	.447	.456
New Mexico	87,619	391,204	17,077	374,127	303,585	4.8	1.032	.045	.987
No. Carolina	1,667,552	2,077,538	*610,161	1,367,377	410,186	3.5	.753	.040	.713
Ohio	4,330,531	6,523,828	2,798,196	3,725,632	2,193,297	4.8	1.032	.443	.589
Pennsylvania	2,036,965	9,019,482	4,612,639	4,406,843	6,982,517	4.5	.968	.495	.473
Rhode Island	.....	613,372	341,388	271,984	613,372	4.2	.903	.503	.400
S. Carolina	57,024	1,463,512	62,320	1,391,192	1,396,488	3.8	.817	.035	.782
S. Dakota	330,312	703,060	51,636	651,424	372,748	4.8	1.032	.076	.956
Texas	4,472,616	4,603,109	517,452	4,085,657	130,493	4.2	.903	.102	.801
Vermont	.....	363,706	*90,856	272,850	363,706	4.8	1.032	.258	.774
Virginia	1,568,117	1,844,431	*252,849	1,591,582	276,314	3.5	.753	.103	.650
W. Virginia	270,603	1,514,669	330,597	1,184,072	1,244,066	4.4	.946	.206	.740
Wisconsin	1,576,476	2,408,867	706,975	1,701,892	832,391	4.0	.860	.252	.608
Wyoming	138,626	233,821	23,483	210,338	95,196	4.9	1.054	.106	.948
Totals	28,778,864	69,915,262	23,756,154	46,159,108	41,136,398	14.2	1.905	1.307	1.598
Totals—									
U. States	113,700,815	103,116,402	36,082,620	67,033,782	10,584,413	14.2	1.909	1.318	1.591

*Does not include figures for biscuits (crackers, sponge goods, sweet goods, machine-made cookies, all kinds). These figures are small and are included in an undistributed total of 577,962 bbls by the Census Bureau in order to prevent disclosure of individual operations. ‡Weighted average.

ARGENTINA—WHEAT AND FLOUR PRODUCTION AND CONSUMPTION

A table prepared by the Bureau of Agricultural Economics, United States Department of Agriculture, giving details of the consumption of wheat and flour in Argentina, wheat in bushels, flour in barrels (000's omitted in both cases):

CALENDAR YEAR FOLLOWING HARVEST

	Wheat				Wheat flour		
Crop year—	Production of wheat	Exports	Balance remaining in country	Amount ground	Production	Exports	Consumption*
1915-16	169,019	84,321	84,698	52,512	11,175	1,623	9,552
1916-17	84,121	34,385	49,736	48,913	10,559	1,265	9,294
1917-18	234,818	110,098	124,720	57,379	12,152	1,985	10,177
1918-19	180,182	120,748	59,434	57,239	12,056	3,691	8,366
1919-20	216,954	183,991	32,963	49,399	10,467	2,024	8,443
1920-21	166,133	62,613	93,520	50,545	10,705	716	9,990
1921-22	191,012	139,700	51,312	48,089	10,268	1,277	8,991
1922-23	195,842	136,167	59,655	49,328	10,531	923	9,608
1923-24	247,807	161,090	86,717	62,141	13,453	†1,983	†9,786
1924-25	191,138	109,988	81,150	60,050	12,994	†1,545	†11,446
1925-26	191,141	74,764	116,377	62,487	13,090	1,599	11,491
1926-27	220,827	165,259	55,568	67,760	14,558	1,908	12,650
1927-28	239,162	194,587	44,575	69,260	14,696	1,902	13,067
1928-29	349,051	242,996	.....	.....	.....	.....	.....
1929-30	162,576	.....	.....	.....	.....	.....	.....

*Includes carry-over. †In the source these two items do not add to total flour production.

AUSTRALIA—WHEAT PRODUCTION AND CONSUMPTION

A table from the official year book of the commonwealth of Australia, showing the estimated consumption of wheat for food and seed purposes in Australia:

	Net exports of flour			Net quantity available for home consumption		Net quantity available per head of population	
	Flour milled, tons	Flour, tons	Flour in bbls exported, bbls	Flour, tons	Equivalent in terms of wheat, bus	Flour, tons	Equivalent in terms of wheat, bus
1916-17	869,976	290,672	2,885	576,618	27,672,880	.1171	5.623
1917-18	885,761	374,082	9,810	501,889	24,090,670	.1305	5.784
1918-19	1,046,268	483,340	6,437	556,491	26,711,570	.1098	5.270
1919-20	1,060,228	517,708	4,590	527,930	25,340,640	.1000	4.801
1920-21	801,511	229,648	3,375	568,488	27,287,420	.1062	5.050
1921-22	911,452	369,698	2,284	549,470	26,374,560	.0999	4.795
1922-23	985,479	394,467	1,831	589,191	28,281,170	.1049	5.034
1923-24	1,092,856	511,151	1,737	579,978	27,838,940	.1011	4.853
1924-25	1,068,698	447,989	1,814	618,805	29,706,960	.1054	5.058
1925-26	1,186,968	500,900	2,473	682,536	32,761,880	.1139	5.467
1926-27	1,141,748	493,392	1,570	646,786	31,045,730	.1068	5.081
1927-28	1,092,632	438,770	1,613	557,249	31,547,950	.1054	5.060

SUPPLY OF AND DEMAND FOR WHEAT IN JAPAN

The relation of the supply of and demand for wheat in Japan, with the local production, amount of imports and exports, and the consumption in Japan, is tabulated below, in bushels:

Year—	Local production	Imports	Exports	Excess of imports over exports	Consumption in Japan
1914	22,890,018	1,089,376	10,735	1,688,640	24,578,658
1915	26,678,589	[illegible]	13,066	679,800	27,358,389
1916	30,025,454	1,683,194	15,681	1,063,617	31,089,071
1917	34,616,137	1,626,140	19,104	1,557,036	33,173,173
1918	31,800,502	5,310,228	29,664	5,480,664	37,281,166
1919	32,940,319	12,036,863	13,117	12,023,836	44,964,156
1920	30,043,380	7,300,914	38,448	5,262,466	35,304,846
1921	28,469,220	24,802,470	128,719	23,676,750	52,144,970
1922	29,205,772	13,382,430	236,706	13,237,624	42,443,396
1923	34,477,956	28,069,624	890,893	27,178,731	61,656,687
1924	39,139,044	26,319,185	1,653	26,317,532	65,447,576
1925	30,383,041	17,166,765	782,443	16,374,322	46,757,363
1926	20,476,000	25,777,400	.....	25,777,400	56,252,400
1927	30,396,000	17,103,020	.....	17,103,020	47,396,620
1928	31,945,000	23,276,000	.....	23,276,000	55,221,000
1929	30,000,495	27,677,210	.....	27,677,210	57,337,000
1930	31,618,865	25,187,000	.....	25,187,000	56,805,865

OCEAN RATES—WHEAT VS. FLOUR

Comparative average monthly ocean rates, in cents per 100 lbs, on flour and wheat from New York to London. All ocean rates on flour and wheat in 1917, 1918 and 1919 based on government requisition of space, and no specific quotations available. Wheat rates in 1920-25 are merely approximate, for although the Shipping Board differential of 5c per 100 lbs between wheat and flour was maintained as the basis, actual rates quoted by cargo vessels varied widely, and full information regarding them is not available.

	1930		1929		1928		1927		1926		1925	
	Flour	Wheat	Flour	Wheat	Flour	Wheat	Flour	Wheat	Flour	Wheat	Flour	Wheat
January	18.0	7.5	20.0	12.2	20.0	8.8	25.0	16.0	20.0	14.0	21.0	13.7
February	18.0	7.4	20.0	8.2	20.0	8.2	25.0	11.0	18.0	12.0	21.0	11.3
March	14.0	7.4	20.0	8.2	20.0	7.7	20.0	11.0	19.0	12.0	20.5	10.0
April	17.0	7.4	18.0	7.7	20.0	7.7	22.0	10.0	22.0	13.0	20.0	9.5
May	17.0	7.4	18.0	7.7	20.0	7.7	22.0	12.0	20.0	12.0	20.0	7.5
June	16.0	7.4	18.0	7.7	19.0	7.7	20.0	11.0	20.0	11.0	20.0	7.5
July	16.0	7.4	18.0	7.7	18.0	7.7	18.0	7.0	20.0	10.0	20.0	7.5
August	16.5	7.4	18.0	7.7	18.0	8.2	18.0	7.0	20.0	12.0	20.0	7.5
September	17.0	7.4	18.0	7.7	20.0	7.7	22.0	10.0	25.0	20.0	20.0	10.0
October	17.0	7.4	18.0	7.7	21.0	12.7	22.0	11.5	34.0	35.0	20.0	11.7
November	17.0	7.4	18.0	8.1	20.0	15.7	23.0	12.6	40.0	25.0	20.0	15.0
December	15.0	7.4	18.0	8.2	20.0	8.7	20.0	8.5	32.5	27.0	20.0	15.0

	1924		1923		1922		1921		1920		1919	
	Flour	Wheat	Flour	Wheat	Flour	Wheat	Flour	Wheat	Flour	Wheat	Flour	Wheat
January	20.4	14.7	15.8	10.7	19.2	14.5	45.0	27.5	89.7	10.0	14.9	8.7
February	22.0	16.3	14.9	9.1	20.7	15.5	32.5	27.5	89.8	40.0	13.8	7.4
March	21.0	16.4	14.2	9.2	23.2	11.7	32.5	30.0	65.3	40.0	12.2	7.1
April	21.7	15.3	10.1	9.8	20.1	11.3	33.5	24.5	65.0	40.0	11.5	7.9
May	20.2	14.1	10.8	9.1	19.1	13.9	34.3	29.1	65.0	40.0	11.1	5.2
June	19.3	12.7	16.2	7.2	17.3	12.2	26.4	21.3	65.0	40.0	11.5	5.3
July	17.1	11.4	16.8	8.1	17.0	12.1	29.8	24.7	65.0	40.2	12.6	6.9
August	17.0	11.6	15.1	8.3	16.8	11.8	20.3	21.3	65.0	42.5	13.3	8.7
September	17.4	11.8	15.3	9.9	16.3	10.8	26.1	21.1	64.7	40.3	20.5	10.5
October	18.7	12.1	15.2	10.1	15.2	10.1	22.3	17.3	55.2	39.5	22.1	12.2
November	21.9	14.3	18.1	13.6	16.9	11.8	22.1	17.1	45.3	32.6	25.1	14.3
December	22.0	15.0	19.0	14.1	18.8	13.9	21.2	15.2	45.1	25.3	30.1	20.9

FLOUR PACKAGE EQUIVALENTS

Number of 140-lb sacks	Number of 280-lb sacks	Number of barrels	Number of 100-kilo sacks	Number of barrels
50	25	35.7	50	56.0
100	50	71.4	80	89.6
150	75	107.1	100	112.0
200	100	142.8	160	179.2
250	125	178.6	200	224.0
500	250	357.1	250	280.0
1,000	500	714.3	320	358.4
1,500	750	1,071.4	400	448.0
2,000	1,000	1,428.6	500	560.0
2,500	1,250	1,785.7	800	896.0
3,000	1,500	2,142.8	1,000	1,120.0
4,000	2,000	2,857.1	1,500	1,680.0
5,000	2,500	3,571.4	1,600	1,792.0
7,500	3,750	5,357.1	2,000	2,240.0
8,000	4,000	5,714.3	3,200	3,584.0
10,000	5,000	7,142.8	4,000	4,480.0
12,000	6,000	8,571.4	5,000	5,600.0
14,000	7,000	10,000.0	8,000	8,960.0
15,000	7,500	10,714.3	10,000	11,200.0
16,000	8,000	11,428.6	12,000	13,440.0
17,500	8,750	12,500.0	15,000	16,800.0
18,000	9,000	12,857.1	16,000	17,920.0
20,000	10,000	14,285.7	20,000	22,400.0

Evaporation of Moisture in Flour

E. H. Derr, city sealer of weights and measures at La Crosse, Wis., has made careful tests as to the extent flour will dry out when allowed to stand. Three sacks of spring wheat short patent flour were used of 48, 24 and 12½ lbs. respectively, and the time covered by the test was 30 days.

They were subjected to what might be termed dry storage, but involving substantially the same conditions as would prevail in a heated warehouse, or as would exist where the flour was not constantly in contact with the outer air. The result of Mr. Derr's experiment follows:

	Lbs and oz		
Jan. 22	48- 3	24-10	12- 5
Jan. 23	48-11	24- 6	12- 3
Jan. 24	48- 7½	24- 3	12- 1
Jan. 25	48- 5½	24- 2	12- ½
Jan. 26	48- 4	24- 1½	12-
Jan. 27	48- 3	24- 1	11-15¾
Jan. 28	48- 1	24-	11-15
Jan. 29	48-	23-15	11-15
Jan. 30	47-15½	23-15	11-14½
Jan. 31	47-14½	23-14	11-14
Feb. 1	47-13	23-13	11-13½
Feb. 2	47-11	23-12	11-13
Feb. 3	47-10	23-11	11-12
Feb. 4	47- 9½	23-10½	11-12
Feb. 5	47- 8	23-10½	11-12½
Feb. 6	47- 7	23- 9	11-12
Feb. 7	47- 6½	23- 8½	11-11½
Feb. 8	47- 6	23- 8	11-11
Feb. 9	47- 5	23- 7½	11-11
Feb. 10	47- 4	23- 7	11-10½
Feb. 11	47- 3	23- 6½	11-10
Feb. 12	47- 2½	23- 6	11-10
Feb. 13	47- 2	23- 6	11- 9½
Feb. 14	47- 1	23- 5	11- 9
Feb. 15	46-15	23- 4	11- 8½
Feb. 16	46-14½	23- 3	11- 8
Feb. 17	46-15	23- 3½	*11- 9½
Feb. 18	46-14½	23- 3	11- 8
Feb. 19	46-14	23- 2½	11- 8
Feb. 20	46-13	23- 2	11- 8
Feb. 21	46-12	23- 2	11- 7½
Loss	3- 7	1- 8	0-12½

*Windows open for the day.

Yield of Flour per Bushel of Wheat

The following table, prepared by the Howard Wheat & Flour Testing Laboratory, of Minneapolis, shows the average yield of straight flour and cleaned dry wheat required to make a barrel (196 lbs) of flour.

The yields reported are calculated on cleaned dry wheat, and cover all flour streams down to and including low grade. As the yields given are averages, an individual wheat might vary 3 or 4 per cent from the results shown.

The figures, computed from several thousand tests, extended over a period of 15 years, and are based upon the experience of well-equipped large mills grinding fairly closely. Smaller mills not grinding closely may expect to obtain from 2 to 4 per cent lower yields.

For the convenience of Canadian and British readers, equivalent imperial bushels are given, as well as United States standard Winchester bushels.

Following is the table:

Wt. per bu U. S.	Wt. per bu Imp.	Yield per ct. straight flour	Wt. per bbl lbs	Wt. per bu Imp.	Yield per ct. straight flour	Wt. per bbl lbs
40	43.3	40.0	8:10	53	54.7	4:13
41	42.3	42.8	7:38	54	56.7	4:06
42	43.3	45.6	7:10	55	56.7	4:01
43	44.4	48.4	6:45	56	57.8	4:01
44	45.4	51.0	6:24	57	58.8	4:01
45	46.4	53.5	6:06	58	59.8	4:01
46	47.5	55.8	5:51	59	60.9	4:01
47	48.5	57.8	5:39	60	61.9	4:01
48	49.5	59.8	5:28	61	62.9	4:01
49	50.5	61.8	5:17	62	64.0	4:01
50	51.6	63.8	5:07	63	65.0	4:01
51	52.6	65.8	4:58	64	66.0	4:01
52	53.6	67.6	4:50			

London—Greatest Bakery

In London there are several large steam bakeries, one of which uses 3,000 sacks (5,000 bbls) of flour per week, or as much in a year as the average output of a 1,200-bbl mill.

PRICES OF AGRICULTURAL PRODUCTS AND THEIR MARKETING COSTS

A Section Devoted to Statistics Bearing on the Prices Received for Agricultural Products and the Costs Involved in Their Manufacture and Transportation Together with Price Data for the Manufactured Article

MONTHLY FLOUR PRICES AT CENTERS IN THE UNITED STATES AND CANADA

A table compiled by The Northwestern Miller from quotations reported to its branch offices and to its correspondents. Unless otherwise noted, flour is quoted per bbl of 196 lbs. packed in 98-lb cottons or 140-lb jutes, basis carload lots, prompt delivery.

	Minneapolis			Kansas City		St. Louis			Columbus		Seattle*		Toronto†		
Year and month	Spring first patent	Spring first clear	White rye flour	Hard winter short patent	Hard winter first clear	Hard winter short patent	Hard winter first clear	Soft winter short patent	Soft winter first clear	Spring first patent	Hard winter short patent	Family patent	Cut-off	Spring top patent	Spring first clear	Ontario 90% patents
1930 average...	$6.00	$4.64	$4.32	$5.51	$3.83	$5.72	$4.82	$5.46	$4.05	$6.15	$5.46	$5.76	$6.24	$7.01	$5.32	$4.36
December	5.29	3.78	3.38	4.71	3.14	4.68	3.55	4.65	3.50	5.31	4.69	5.02	5.30	5.47	5.34	3.74	3.30
November	5.10	3.81	3.10	4.71	3.09	4.75	3.66	4.67	3.66	5.24	4.72	5.16	5.39	5.65	5.60	4.15	3.42
October	5.32	3.83	3.65	4.91	3.27	5.14	4.00	4.77	3.67	5.45	4.85	5.18	5.56	5.96	6.02	4.40	3.64
September	5.46	4.31	3.83	4.91	3.36	5.27	4.15	4.81	3.67	5.41	4.96	5.35	5.71	6.12	6.22	4.56	3.87
August	5.72	4.56	4.24	5.19	3.62	5.46	4.30	4.98	3.76	5.58	4.95	5.17	6.07	6.27	6.72	5.02	3.95
July	5.87	4.61	4.07	5.28	3.59	5.46	4.29	4.89	3.69	5.87	5.09	5.65	6.08	6.25	6.84	5.14	4.25
June	6.16	4.97	4.29	5.84	4.07	5.99	4.46	5.46	4.10	6.30	5.58	6.22	6.52	6.77	7.40	5.48	4.99
May	6.31	5.00	4.69	5.74	4.24	6.02	4.77	5.87	4.49	6.50	5.82	6.65	6.67	6.92	7.52	5.66	4.95
April	6.42	5.03	4.69	6.02	4.36	6.16	4.94	5.93	4.38	6.68	5.97	6.16	6.67	6.23	7.90	6.20	5.01
March	6.66	5.13	4.84	5.86	4.32	6.24	4.84	6.09	4.40	6.86	6.10	6.13	6.71	6.17	7.90	6.20	4.92
February	6.71	5.21	5.21	6.32	4.49	6.60	5.21	6.43	4.50	6.99	6.21	6.43	7.00	6.23	8.20	6.50	5.13
January	7.11	5.37	5.84	6.62	4.49	6.85	5.51	6.99	4.99	7.47	6.52	6.42	7.33	6.33	8.45	6.75	5.26
1929 average...	$7.18	$5.36	$6.23	$6.35	$4.64	$6.28	$4.89	$6.79	$5.08	$7.26	$6.70	$6.81	$7.36	$6.71	$7.75	$6.35	$5.58
December	7.28	5.41	6.24	6.86	4.79	6.76	5.02	6.94	5.04	7.53	6.68	6.76	7.29	6.47	8.05	6.82	5.42
November	7.05	5.44	5.90	6.60	4.75	5.95	4.89	6.65	4.79	7.29	6.49	6.62	7.12	5.40	8.32	6.66	5.52
October	7.25	5.71	5.96	6.75	5.79	6.48	5.20	6.51	4.80	7.55	6.94	6.60	7.38	5.64	8.62	6.92	5.71
September	7.59	5.80	6.24	6.88	5.31	6.61	5.22	6.84	5.04	7.68	7.25	6.80	7.61	5.78	8.69	7.35	5.89
August	7.62	5.92	5.96	6.84	5.05	6.64	5.09	7.14	5.01	8.10	7.30	6.86	7.90	6.09	8.87	7.18	5.90
July	8.07	5.76	6.82	6.96	5.21	6.85	5.17	7.09	5.49	8.27	7.13	7.22	7.91	6.03	8.81	7.11	5.91
June	6.65	5.65	6.86	6.00	4.26	5.95	4.19	6.40	4.94	6.61	6.12	6.42	6.97	4.92	7.25	5.58	5.29
May	6.39	4.98	5.31	5.85	4.09	5.86	4.44	6.42	4.78	6.56	6.00	6.38	6.80	5.40	7.20	5.58	5.30
April	6.82	5.02	6.26	4.26	4.33	6.06	4.66	6.47	5.04	6.86	6.42	7.02	7.12	5.42	7.39	5.68	5.46
March	7.00	5.09	5.79	6.45	4.71	6.49	4.86	7.08	5.31	6.98	6.56	6.98	7.62	5.80	7.62	5.92	5.60
February	7.22	5.04	5.89	6.50	4.76	6.40	5.04	7.08	5.49	7.00	6.84	7.14	7.31	6.21	7.56	5.98	5.60
January	6.81	5.11	6.57	6.22	4.62	5.99	4.94	6.66	5.19	6.75	6.68	6.88	7.35	6.30	7.38	5.58	6.59

*Quotations based on 49-lb packages. †Quotations for spring top patent and spring first clear are based on 98-lb jutes; those for Ontario 90% patents on secondhand jutes.

CHICAGO—WHEAT AND RYE FLOUR PRICES

Range of prices of wheat and rye flour in Chicago during 1930, basis car lots, per barrel, in jutes or cottons:

	Patent		Short patent		
	Spring standard	Spring top	Hard winter	Soft winter	White rye
Jan. 4	$6.20@6.70	$6.40@7.00	$6.30@6.65	$6.20@6.70	$6.15@6.25
Jan. 11	6.00@6.40	6.20@6.70	6.15@6.60	6.10@6.75	5.95@6.20
Jan. 18	6.00@6.15	6.30@6.70	6.00@6.60	6.00@6.60	5.70@5.90
Jan. 25	5.95@6.45	6.25@6.70	6.00@6.40	6.00@6.60	5.75@5.90
Feb. 1	5.75@6.30	6.10@6.55	5.90@6.25	5.85@6.50	5.30@5.50
Feb. 8	5.75@6.25	6.05@6.50	5.75@6.20	5.85@6.15	5.35@5.50
Feb. 15	6.00@6.40	6.25@6.60	5.80@6.10	6.10@6.55	5.45@5.65
Feb. 22	5.70@6.10	6.00@6.35	5.60@6.10	5.75@6.20	5.15@5.35
March 1	5.60@6.20	5.80@6.40	5.50@6.10	5.50@6.30	5.05@5.30
March 8	5.35@6.05	5.60@6.25	5.10@6.00	5.40@6.15	4.90@5.15
March 15	5.25@5.85	5.55@6.05	5.30@5.75	5.25@5.80	4.50@4.70
March 22	5.25@5.90	5.55@6.05	5.10@5.75	5.30@6.10	4.90@5.15
March 29	5.50@6.15	5.75@6.35	5.10@5.80	5.60@6.30	4.75@5.00
April 5	5.45@6.25	5.75@6.55	5.10@6.20	5.35@6.10	4.90@5.25
April 12	5.50@6.20	5.80@6.40	5.60@6.20	5.60@6.25	4.70@5.05
April 19	5.40@6.00	5.65@6.20	5.10@5.90	5.70@6.25	4.60@4.80
April 26	5.25@5.90	5.50@6.10	5.25@5.75	5.50@6.25	4.60@4.75
May 3	5.20@5.85	5.40@6.10	5.20@5.75	5.20@5.90	4.55@4.65
May 10	5.20@5.70	5.40@6.00	5.20@5.75	5.15@5.65	4.55@4.75
May 17	5.40@6.15	5.70@6.25	5.30@5.90	5.35@5.90	4.60@4.80
May 24	5.40@6.15	5.60@6.30	5.30@5.95	5.40@6.00	4.70@4.85
May 31	5.35@6.15	5.60@6.25	5.40@5.90	5.40@6.00	4.60@4.80
June 7	5.25@5.85	5.50@6.15	5.30@5.80	5.30@5.95	4.30@4.50
June 14	5.25@5.85	5.50@6.10	5.20@5.75	5.15@5.60	4.10@4.35
June 21	4.95@5.55	5.20@5.90	4.90@5.65	4.70@5.35	4.00@4.20
June 28	4.85@5.40	5.10@5.70	4.85@5.35	4.80@5.20	3.80@4.00
July 5	4.80@5.90	5.10@5.70	4.70@5.30	4.50@5.15	3.90@4.30
July 12	4.65@5.35	5.00@5.60	4.60@5.05	4.45@4.90	4.00@4.25
July 19	4.80@5.40	5.00@5.70	4.60@5.05	4.50@5.00	4.20@4.30
July 26	4.65@5.20	4.90@5.60	4.60@5.05	4.40@4.90	4.20@4.40
Aug. 2	4.55@5.20	4.75@5.35	4.45@4.95	4.30@4.80	4.00@4.25
Aug. 9	4.75@5.40	4.95@5.70	4.70@5.35	4.60@5.30	4.65@4.75
Aug. 16	4.65@5.20	4.90@5.45	4.50@5.05	4.60@5.20	4.35@4.50
Aug. 23	5.40@5.25	4.80@5.35	4.50@5.00	4.45@4.90	4.10@4.20
Aug. 30	4.50@5.00	4.80@5.20	4.50@5.00	4.40@4.85	4.10@4.20
Sept. 6	4.30@4.90	4.60@5.20	4.35@4.95	4.30@4.85	4.10@4.25
Sept. 13	4.30@4.90	4.60@5.20	4.50@4.90	4.40@4.90	3.90@4.15
Sept. 20	4.30@4.90	4.60@5.25	4.35@4.85	4.35@4.90	3.85@4.00
Sept. 27	4.30@4.90	4.60@5.20	4.40@4.85	4.30@4.90	3.50@3.85
Oct. 4	4.30@4.75	4.55@5.00	4.40@4.85	4.30@4.80	3.60@3.80
Oct. 11	4.30@4.75	4.50@5.00	4.30@4.80	4.25@4.80	3.60@3.75
Oct. 18	4.20@4.80	4.50@5.05	4.25@4.80	4.20@4.75	3.55@3.75
Oct. 25	4.20@4.70	4.50@5.00	4.30@4.75	4.40@4.80	3.60@3.75
Nov. 1	4.20@4.70	4.50@4.95	4.20@4.60	4.30@4.75	3.50@3.70
Nov. 8	4.00@4.55	4.25@4.75	4.10@4.55	4.25@4.80	3.25@3.40
Nov. 15	3.90@4.30	4.10@4.55	4.00@4.40	4.10@4.45	3.00@3.20
Nov. 22	3.90@4.30	4.10@4.55	4.00@4.35	4.10@4.60	3.10@3.25
Nov. 29	4.05@4.40	4.20@4.70	4.15@4.45	4.20@4.70	3.20@3.35
Dec. 6	4.10@4.50	4.25@4.75	4.20@4.45	4.30@4.70	3.45@3.55
Dec. 13	4.05@4.60	4.30@4.90	4.25@4.55	4.30@4.80	3.55@3.70
Dec. 20	4.10@4.70	4.10@4.95	4.20@4.60	4.30@4.80	3.45@3.65

MINNEAPOLIS—FLOUR PRICE RANGE

High and low quotations of first patent flour at Minneapolis by months:

1930		1927		1924		1921	
Dec.	$5.10@5.55	Dec.	$7.25@7.65	Dec.	$8.40@9.05	Dec.	$7.10@7.65
Nov.	5.00@5.40	Nov.	7.25@7.65	Nov.	7.60@9.05	Nov.	7.30@7.90
Oct.	5.10@5.55	Oct.	7.35@7.95	Oct.	8.00@8.30	Oct.	7.45@8.20
Sept.	5.30@5.70	Sept.	6.90@7.50	Sept.	7.25@8.20	Sept.	8.30@9.05
Aug.	5.50@5.95	Aug.	7.50@8.30	Aug.	7.35@8.55	Aug.	8.15@8.95
July	5.60@6.10	July	7.85@8.40	July	7.25@8.65	July	8.90@9.75
June	5.70@6.60	June	8.10@8.70	June	6.70@7.95	June	9.30@9.50
May	6.00@6.60	May	7.80@8.45	May	6.50@7.50	May	9.05@9.30
April	6.00@6.90	April	7.80@7.80	April	6.35@7.15	April	8.25@8.55
March	6.25@6.90	March	7.40@7.95	March	6.35@7.10	March	9.05@9.45
Feb.	6.30@6.95	Feb.	7.60@8.00	Feb.	6.35@7.00	Feb.	9.40@9.60
Jan.	6.90@7.40	Jan.	7.45@7.95	Jan.	6.15@6.80	Jan.	9.85@10.05
1929		**1926**		**1923**		**1920**	
Dec.	$6.80@7.75	Dec.	$7.75@8.15	Dec.	$5.90@6.80	Dec.	$8.80@9.10
Nov.	6.50@7.40	Nov.	7.70@8.40	Nov.	6.00@6.70	Nov.	9.10@9.45
Oct.	6.90@7.60	Oct.	8.10@8.50	Oct.	6.10@6.95	Oct.	10.30@11.50
Sept.	7.30@7.95	Sept.	7.60@8.30	Sept.	6.20@6.85	Sept.	12.35@12.85
Aug.	7.25@8.00	Aug.	8.05@8.75	Aug.	5.90@6.35	Aug.	12.00@12.50
July	7.00@8.80	July	9.05@9.95	July	5.80@6.85	July	13.50@13.80
June	6.10@7.30	June	8.75@9.55	June	6.20@7.05	June	13.75@14.60
May	5.90@6.80	May	8.70@9.25	May	6.50@7.50	May	14.70@15.60
April	6.30@7.40	April	8.90@8.80	April	6.75@7.80	April	14.00@14.55
March	6.50@7.30	March	8.85@9.55	March	6.45@7.40	March	13.20@13.45
Feb.	6.90@7.70	Feb.	9.25@9.90	Feb.	6.70@7.50	Feb.	13.20@13.85
Jan.	6.10@7.40	Jan.	9.30@10.05	Jan.	6.45@7.35	Jan.	14.15@14.50
1928		**1925**		**1922**		**1919**	
Dec.	$6.10@6.80	Dec.	$9.00@10.15	Dec.	$6.65@6.85	Dec.	$13.80@14.25
Nov.	6.10@6.90	Nov.	8.45@9.25	Nov.	6.50@6.85	Nov.	13.70@13.20
Oct.	6.20@7.10	Oct.	8.50@9.00	Oct.	6.25@6.60	Oct.	11.30@12.40
Sept.	6.50@7.35	Sept.	8.15@9.00	Sept.	6.00@6.65	Sept.	11.55@12.25
Aug.	6.75@7.25	Aug.	8.85@9.40	Aug.	6.80@7.15	Aug.	11.65@12.35
July	7.00@8.40	July	8.20@9.40	July	7.57@8.00	July	12.00@12.30
June	7.80@8.85	June	8.60@9.00	June	7.25@7.75	June	11.90@12.10
May	7.80@9.75	May	8.30@9.60	May	7.80@8.30	May	12.35@12.55
April	8.05@9.05	April	8.00@9.00	April	7.95@8.30	April	12.05@12.40
March	7.75@8.30	March	8.45@10.85	March	7.51@8.10	March	14.15@14.25
Feb.	7.20@8.20	Feb.	9.75@10.80	Feb.	7.75@8.20	Feb.	10.50@10.65
Jan.	7.35@8.10	Jan.	9.20@10.75	Jan.	6.80@7.20	Jan.	10.25@10.30

CHICAGO—WHEAT PRICES

Lowest and highest prices for contract wheat in Chicago, and the months in which extreme prices were reached:

Yrs.	Months lowest prices were reached	Yearly range	Months highest prices reached
1930	November	$ .71⅝ @1.29	January
1929	May	.98 @1.48	February
1928	August	1.06½ @2.15	April
1927	October	1.21⅜ @1.58	May
1926	Sept'mber	1.30 @1.94	January
1925	April	1.35¼ @2.20½	January
1924	March	1.02 @1.91	December
1923	July	.96½ @1.38	March
1922	Aug., Sept.	1.00 @1.73	May
1921	November	1.30½ @2.06⅜	January
1920	November	1.58 @3.50	January
1919	August	2.50 @3.50	December
1918	Jan., May	2.17 @2.42	December
1917	February	1.51½ @3.45	May
1916	June	.99¾ @2.02	October
1915	August	.98 @1.68	February
1914	July	.77⅜ @1.31	December
1913	October	.80⅝ @1.17⅝	January
1912	Nov., Dec.	.85 @1.22	April, May
1911	April	.83¼ @1.17	October
1910	November	.89¼ @1.29½	July
1909	August	.99¼ @1.60	June
1908	July	.84½ @1.11	May
1907	January	.71 @1.22	October
1906	Aug., Sept.	.69⅛ @ .94¾	May

Yrs.	Months lowest prices were reached	Yearly range	Months highest prices reached
1905	August	$ .77⅝ @1.24	February
1904	January	.81½ @1.22	Sep. Oc. Dec.
1903	March	.70½ @ .93	September
1902	October	.87½ @ .95	September
1901	July	.83⅛ @ .79½	December
1900	January	.61⅛ @ .87½	June
1899	December	.64 @ .79½	May
1898	October	.62 @1.05	May
1897	April	.64½ @1.02	December
1896	August	.53 @ .94⅝	November
1895	January	.48⅜ @ .85⅝	May
1894	September	.50 @ .65⅛	April
1893	July	.54 @ .88	April
1892	October	.69⅝ @ .91⅝	February
1891	July	.85 @1.16	April
1890	February	.74⅛ @1.08¼	August
1889	June	.75½ @1.08⅜	February
1888	April	.71⅛ @2.00	September
1887	August	.66⅝ @ .94⅜	June
1886	October	.69⅝ @ .84⅝	January
1885	March	.73⅝ @ .91⅝	January
1884	December	.69⅛ @ .96	April
1883	October	.90 @1.13⅛	February
1882	December	.91⅝ @1.49	June
1881	January	.95⅝ @1.43¼	April, May

Winnipeg—Average Flour Prices

A table showing the average price of top patent spring wheat flour at Winnipeg, by months. Prices are per barrel, for delivery between Fort William and the Alberta boundary.

	1930	1929	1928
January	$8.60	$7.30	$8.65
February	8.14	7.45	8.65
March	7.75	7.55	8.65
April	7.65	7.57	8.95
May	7.50	7.32	9.41
June	7.35	7.25	9.07
July	6.95	8.83	8.77
August	7.00	9.42	8.37
September	6.21	9.17	8.02
October	5.85	8.59	8.32
November	5.65	8.35	8.15
December	5.33	8.85	7.87
Average by years..	$7.00	$8.14	$8.57

Federation Secretaries

H. S. Kennedy, 1903-04; Louis T. Jamme, 1904-05; A. L. Goetzmann, 1905-13; A. P. Husband, 1912-29; Herman Steen, 1929-. Office of secretary, Board of Trade Building, Chicago, Ill.

Minneapolis—Yearly Flour Prices

Average prices of flour at Minneapolis, per barrel, by calendar years:

Year	1st pat	1st clear	Year	1st pat	1st clear
1930..	$5.997	$4.635	1909.	$5.70	$4.16
1929..	7.087	5.362	1907.	4.76	3.05
1928..	7.502	5.911	1906.	4.09	2.84
1927..	7.820	6.297	1905.	4.9175	2.8225
1926.	8.768	6.871	1904.	4.65	3.0875
1925.	9.161	7.443	1903.	4.07	2.34
1924.	7.635	5.455	1902.	3.684	2.67
1923.	6.70	5.20	1901.	3.636	2.57
1922.	7.37	5.31	1900.	3.705	2.445
1921.	8.76	5.72	1899.	3.564	2.456
1920.	12.61	*9.5075	1898.	4.551	3.318
1919.	12.00	9.07	1897.	4.39	3.422
1918	*10.1125	....	1896.	3.4525	2.81
1917.	11.34	9.80	1895.	3.588	2.425
1916.	7.69	5.78	1894.	3.67	2.05
1915.	6.66	5.41	1893.	3.7875	2.3225
1914.	5.10	3.905	1892.	4.3125	3.27
1913.	4.535	3.355	1891.	5.05	4.09
1912.	5.13	3.7875	1890.	4.96	3.76
1911.	5.08	3.40	1889.	5.27	3.395
1910.	5.50	3.7875	1888.	4.87	3.50

*Standard Victory flour.

Glasgow Flour Trade Association

The Glasgow Flour Trade Association was founded in 1903, and includes practically all the flour importing firms in the city of Glasgow. The officers are: president, Robert Carson; vice president, Ernest A. Keay; treasurer, Robert Ferguson; secretary, James Ness.

British Millers' Association

The president of the National Association of British and Irish millers is Guy Savory, of A. H. Allen & Son, Ltd., St. James's Mills, Croydon. The secretary is H. G. Hall, with offices at 10, Trinity Square, London, E. C. 3.

UNITED STATES—FARM PRICES, BY MONTHS

Department of Agriculture estimates of average prices paid to producers in the United States, in cents per bushel, on the fifteenth day of each month, with weighted averages for the crop years:

WHEAT

Year—	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Av'ge
1911-12	83.5	83.8	86.6	90.0	89.4	87.7	89.2	90.6	91.6	96.1	101.2	100.9	88.9
1912-13	94.4	87.8	84.6	[illegible]	[illegible]	[illegible]	78.0	80.2	79.8	80.0	81.8	82.0	83.2
1913-14	79.2	77.1	77.5	[illegible]	78.4	80.4	81.3	82.4	83.6	84.0	84.2	80.6	79.1
1914-15	76.7	84.9	93.4	[illegible]	97.9	103.2	118.8	131.8	132.6	135.6	136.6	117.2	102.8
1915-16	[illegible]	[illegible]	93.0	[illegible]	92.5	[illegible]	108.4	108.4	100.8	100.6	101.2	90.5	98.8
1916-17	[illegible]	[illegible]	133.8	147.4	[illegible]	155.3	157.0	164.6	172.2	213.0	247.2	234.3	152.2
1917-18	224.5	219.3	205.2	200.3	[illegible]	201.4	201.6	202.0	202.6	203.1	203.0	202.8	[illegible]
1918-19	203.8	205.0	206.7	205.9	206.1	204.5	206.2	207.8	211.1	222.6	229.8	225.2	[illegible]
1919-20	219.6	211.4	207.6	211.4	214.0	223.4	233.8	231.2	230.3	242.6	250.8	256.0	221.6
1920-21	242.9	225.4	216.5	201.2	165.8	146.4	149.2	148.2	140.4	122.1	[illegible]	119.8	181.6
1921-22	108.5	103.0	103.4	99.9	93.4	93.0	96.2	107.0	117.0	119.0	118.8	109.6	103.1
1922-23	99.8	92.6	89.2	94.1	99.4	103.2	104.6	104.4	106.0	108.4	108.2	100.8	98.7
1923-24	[illegible]	[illegible]	91.0	94.2	93.7	94.5	96.7	98.0	98.8	95.8	96.8	98.5	93.2
1924-25	[illegible]	116.8	[illegible]	[illegible]	133.6	141.1	162.1	169.8	164.0	140.5	149.1	152.7	140.0
1925-26	[illegible]	150.4	144.4	136.4	148.8	153.7	158.1	156.5	146.0	142.2	142.1	138.9	148.1
1926-27	127.7	125.1	117.7	121.4	123.6	122.8	122.2	122.8	120.9	117.2	123.2	130.1	122.7
1927-28	127.3	123.5	119.2	113.7	111.4	113.3	115.2	116.2	121.6	129.4	144.3	132.0	[illegible]
1928-29	[illegible]	[illegible]	94.4	96.7	97.1	98.2	98.5	104.2	104.7	98.8	90.1	86.8	[illegible]
1929-30	102.4	[illegible]	112.1	111.5	103.4	108.1	107.5	101.3	91.9	93.4	87.5	87.9	105.1
1930-31	70.6	[illegible]	70.3	65.6	60.0	...	...	...	...	...	...	...	...

CORN

Year—	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Av'ge
1911-12	63.2	62.0	63.4	65.6	68.8	76.2	81.0	81.8	80.2	78.4	73.9	[illegible]	69.6
1912-13	53.6	[illegible]	[illegible]	51.4	53.0	[illegible]	[illegible]	61.9	[illegible]	70.4	75.4	[illegible]	[illegible]
1913-14	69.9	69.4	[illegible]	[illegible]	69.9	[illegible]	[illegible]	[illegible]	[illegible]	79.2	79.8	74.4	[illegible]
1914-15	67.5	65.3	69.5	[illegible]	75.1	[illegible]	[illegible]	77.8	[illegible]	78.1	73.9	[illegible]	72.7
1915-16	[illegible]	59.8	[illegible]	[illegible]	[illegible]	[illegible]	73.2	74.8	[illegible]	81.5	83.0	[illegible]	[illegible]
1916-17	[illegible]	89.4	[illegible]	[illegible]	[illegible]	[illegible]	155.4	162.4	180.6	186.0	176.3	[illegible]	[illegible]
1917-18	137.0	[illegible]	[illegible]	146.6	154.0	154.6	154.1	153.1	156.7	162.7	162.6	149.9	147.6
1918-19	136.4	140.6	141.4	137.6	143.4	166.1	166.9	173.8	183.8	188.3	169.6	[illegible]	152.1
1919-20	[illegible]	[illegible]	143.6	147.6	153.6	164.1	177.4	186.4	174.6	159.7	138.5	101.3	150.1
1920-21	[illegible]	66.8	64.6	63.4	63.8	[illegible]	61.0	62.4	62.0	59.0	53.6	46.0	62.6
1921-22	[illegible]	42.8	44.6	50.3	55.8	[illegible]	60.6	61.9	63.3	63.6	62.2	[illegible]	53.4
1922-23	64.3	67.6	70.2	72.5	[illegible]	79.6	84.0	85.8	87.0	87.0	86.2	84.8	[illegible]
1923-24	78.3	72.2	73.6	76.5	[illegible]	78.2	78.6	80.8	98.3	107.4	109.7	108.9	[illegible]
1924-25	99.6	105.6	112.0	114.5	112.1	103.8	107.5	111.0	104.4	[illegible]	98.8	[illegible]	[illegible]
1925-26	[illegible]	[illegible]	69.6	68.5	66.6	65.7	67.1	68.6	71.5	79.5	76.2	[illegible]	[illegible]
1926-27	66.0	64.5	64.3	66.5	65.2	65.6	73.0	88.9	92.4	97.7	96.3	87.6	77.9
1927-28	73.7	75.1	[illegible]	79.0	80.2	91.9	102.5	102.2	102.4	98.2	96.1	84.7	85.8
1928-29	75.4	76.1	[illegible]	86.8	[illegible]	[illegible]	86.2	86.9	91.2	96.9	97.2	91.9	85.8
1929-30	81.0	78.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	90.0	91.7	81.9	79.8
1930-31	66.3	...	...	...	...	...	...	...	...	...	...	...	...

OATS

Year—	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	July	Av'ge
1911-12	40.3	41.4	43.2	[illegible]	45.0	46.5	48.6	50.9	54.0	55.6	53.9	48.4	46.2
1912-13	39.6	34.3	33.6	32.8	32.0	[illegible]	32.8	33.1	33.6	35.1	36.8	37.6	34.5
1913-14	38.4	[illegible]	38.8	38.6	39.2	39.2	39.1	39.2	39.5	39.8	39.4	37.8	39.0
1914-15	39.5	[illegible]	[illegible]	43.4	44.4	47.6	51.1	52.8	53.4	52.4	49.0	46.0	45.9
1915-16	[illegible]	36.5	[illegible]	35.5	37.6	41.8	43.6	[illegible]	42.3	[illegible]	[illegible]	40.2	39.4
1916-17	[illegible]	43.8	46.8	[illegible]	51.9	53.3	56.0	[illegible]	66.2	[illegible]	[illegible]	71.3	53.8
1917-18	[illegible]	62.0	62.0	[illegible]	70.2	76.3	[illegible]	87.6	87.4	82.0	[illegible]	[illegible]	72.1
1918-19	[illegible]	70.6	69.6	69.6	70.8	67.6	[illegible]	64.2	68.4	71.0	71.0	73.1	69.4
1919-20	73.5	70.0	68.6	[illegible]	[illegible]	80.4	[illegible]	87.6	94.5	100.6	103.7	93.2	79.9
1920-21	76.0	65.4	57.6	[illegible]	45.5	[illegible]	[illegible]	40.5	38.0	37.4	36.8	34.7	51.0
1921-22	32.0	30.6	30.1	29.7	30.6	[illegible]	[illegible]	36.6	37.2	38.2	37.8	36.2	33.0
1922-23	33.6	33.4	36.4	38.8	40.3	[illegible]	[illegible]	43.5	44.8	45.3	[illegible]	40.2	39.1
1923-24	[illegible]	38.0	39.4	40.8	42.6	43.1	45.4	46.2	46.5	46.3	46.8	49.4	42.4
1924-25	[illegible]	[illegible]	48.9	[illegible]	50.6	51.0	[illegible]	49.7	[illegible]	[illegible]	48.3	46.3	48.7
1925-26	40.7	38.1	37.2	37.6	39.1	40.0	[illegible]	38.8	39.4	39.5	38.9	37.7	39.1
1926-27	37.9	35.6	39.0	39.8	[illegible]	[illegible]	43.4	43.4	43.2	45.4	48.0	46.3	44.2
1927-28	[illegible]	43.9	44.6	45.1	48.1	49.3	51.3	54.5	56.9	[illegible]	61.4	56.2	49.6
1928-29	[illegible]	36.7	39.0	39.8	42.5	43.7	47.0	46.6	45.8	[illegible]	42.5	42.9	41.6
1929-30	[illegible]	55.2	51.7	53.8	43.6	43.1	43.0	[illegible]	42.4	40.9	39.3	33.1	41.9
1930-31	[illegible]	36.1	34.7	31.5	...	...	...	...	...	...	...	...	...

BARLEY

Year—	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	July	Av'ge
1911-12	[illegible]	[illegible]	83.3	85.9	86.6	88.8	91.1	91.6	94.2	93.6	86.5	74.4	83.2
1912-13	60.2	54.2	54.3	52.2	50.2	50.6	50.2	48.8	48.4	50.5	53.2	52.2	53.2
1913-14	53.0	56.0	55.8	54.2	53.0	52.3	51.8	51.4	50.5	49.2	[illegible]	46.3	52.6
1914-15	46.8	52.2	51.8	53.0	54.3	58.6	65.3	66.2	[illegible]	62.9	58.9	56.2	55.4
1915-16	54.3	49.4	48.4	50.8	[illegible]	58.3	60.6	65.4	68.4	69.6	69.4	69.3	64.3
1916-17	66.1	[illegible]	79.8	85.6	[illegible]	89.9	94.8	99.6	111.2	119.7	113.0	110.6	88.7
1917-18	112.2	112.0	112.6	[illegible]	120.1	126.2	145.5	166.6	161.4	147.0	126.9	114.2	137.8
1918-19	105.4	98.2	95.2	[illegible]	91.5	89.0	[illegible]	89.0	98.3	106.6	108.8	113.6	98.6
1919-20	117.2	115.4	116.2	118.8	125.4	133.6	133.2	134.6	143.2	147.4	145.2	131.5	126.7
1920-21	113.0	96.1	86.4	76.5	67.8	60.8	57.0	55.6	51.8	50.4	51.1	50.0	76.1
1921-22	48.2	[illegible]	43.0	41.8	42.8	44.0	47.0	51.2	54.6	57.0	55.0	51.0	47.4
1922-23	[illegible]	[illegible]	49.2	52.0	55.6	56.8	56.2	58.0	59.6	60.8	58.3	54.7	52.6
1923-24	[illegible]	51.9	54.7	55.2	57.6	56.5	58.0	60.0	61.0	60.0	61.9	68.8	57.1
1924-25	76.7	75.6	81.4	79.7	76.2	82.4	84.8	81.5	[illegible]	76.9	76.4	73.5	78.3
1925-26	67.1	60.8	57.6	58.0	58.4	59.5	56.2	54.6	[illegible]	55.1	53.7	55.3	58.0
1926-27	55.0	52.9	[illegible]	56.0	56.4	58.0	61.3	62.2	64.1	68.4	76.3	71.4	64.8
1927-28	69.0	69.5	66.8	66.8	71.5	73.6	76.4	79.4	81.3	84.5	81.7	77.6	72.9
1928-29	55.9	54.1	55.2	54.5	55.0	[illegible]	60.5	61.0	58.0	55.3	52.6	56.6	56.1
1929-30	55.8	55.2	[illegible]	53.8	54.6	[illegible]	52.5	51.4	51.7	50.5	47.5	40.0	51.8
1930-31	43.6	45.3	41.9	38.3	...	...	...	...	...	...	...	...	...

RYE

Year—	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Av'ge
1911-12	76.2	76.2	78.3	81.4	83.2	83.0	83.6	84.2	84.6	84.8	86.4	81.8	81.0
1912-13	60.8	[illegible]	70.4	69.4	67.6	65.0	66.4	66.0	63.0	62.6	63.2	63.6	69.0
1913-14	62.0	61.8	63.9	61.0	63.3	63.0	62.1	61.8	62.4	63.0	63.6	63.8	63.0
1914-15	62.0	68.2	[illegible]	79.6	83.3	88.4	95.4	103.0	102.9	101.2	100.0	95.9	[illegible]
1915-16	91.4	87.2	83.6	83.7	84.6	84.4	86.8	87.0	84.6	83.6	85.8	83.6	[illegible]
1916-17	83.4	91.6	101.9	109.7	118.7	120.3	121.0	121.8	130.8	149.8	173.6	180.0	114.6
1917-18	177.6	170.0	165.8	169.3	167.4	168.2	172.6	187.9	218.0	228.1	204.4	178.8	176.5
1918-19	166.9	161.6	156.6	153.3	152.1	161.2	145.6	136.3	139.0	150.6	149.6	141.2	152.7
1919-20	144.2	144.0	137.0	132.8	131.5	142.8	153.4	149.8	150.6	169.6	188.5	186.4	144.6
1920-21	178.8	168.8	165.6	152.2	124.4	125.8	128.1	126.8	122.4	112.0	108.8	[illegible]	145.0
1921-22	101.0	94.0	99.2	81.6	[illegible]	69.6	70.0	77.0	83.8	85.9	87.8	[illegible]	83.0
1922-23	74.0	66.9	63.2	65.2	68.2	70.7	[illegible]	71.0	70.1	70.8	69.2	62.2	67.8
1923-24	66.3	56.3	57.2	58.8	[illegible]	63.9	63.5	64.5	62.8	60.4	60.1	61.6	[illegible]
1924-25	68.8	79.8	80.1	105.7	108.6	[illegible]	126.2	132.2	125.1	100.9	103.6	101.8	103.8
1925-26	92.3	92.8	81.9	[illegible]	73.4	[illegible]	88.2	82.5	73.4	73.8	72.5	76.0	76.2
1926-27	80.7	86.1	[illegible]	82.4	83.0	82.4	83.6	88.4	86.4	85.2	90.1	94.9	87.3
1927-28	91.2	80.6	81.4	81.0	84.0	87.8	88.0	89.5	96.0	99.8	111.5	106.8	86.8
1928-29	99.2	83.6	81.8	87.1	86.3	87.2	87.9	91.5	91.5	86.0	79.1	75.7	85.4
1929-30	85.3	91.8	89.2	89.9	85.5	88.1	85.7	78.3	68.4	68.7	63.8	60.7	87.7
1930-31	43.6	53.0	53.1	47.6	41.6	...	...	...	...	...	...	...	...

FLAXSEED

Year—	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Av'ge
1911-12	204.3	207.8	196.1	184.6	189.0	187.4	187.6	186.2	193.0	201.7	186.8	168.9	194.3
1912-13	155.2	140.6	124.0	110.4	107.8	114.2	116.3	114.0	115.0	114.6	116.0	123.2	123.5
1913-14	[illegible]	120.6	119.3	122.0	126.0	130.2	132.6	133.8	135.8	136.4	143.4	145.0	124.6
1914-15	133.4	123.0	122.4	130.4	149.2	160.8	162.8	168.6	169.6	161.0	148.6	144.0	[illegible]
1915-16	145.8	155.5	168.4	180.0	198.4	206.7	202.3	197.0	181.2	169.8	170.6	184.2	174.0
1916-17	194.7	217.0	241.6	219.6	252.2	253.4	259.6	283.4	299.7	288.4	274.8	287.2	243.5
1917-18	305.6	302.2	296.2	303.7	318.8	338.2	364.8	376.5	368.4	356.4	379.9	395.8	315.9
1918-19	321.0	357.4	337.0	333.9	318.9	318.8	338.0	356.0	376.4	416.7	492.4	529.0	363.6
1919-20	477.8	410.2	410.3	436.0	445.0	464.6	464.2	452.0	434.6	390.4	331.6	297.0	421.1
1920-21	285.0	259.9	208.4	170.2	160.0	153.4	146.5	134.2	136.7	145.8	154.0	163.4	199.2
1921-22	163.8	164.0	145.0	148.1	162.1	194.6	217.4	224.6	233.8	230.0	217.2	200.8	164.2
1922-23	189.1	199.4	211.0	217.8	229.9	245.4	261.6	279.5	273.1	248.4	226.8	210.4	218.2
1923-24	208.4	212.1	211.4	218.8	215.8	224.9	223.7	217.7	222.6	213.1	218.1	210.2	216.0
1924-25	201.2	210.8	222.7	235.8	271.8	275.3	267.8	244.7	261.8	246.8	227.6	229.5	240.5
1925-26	227.0	228.9	228.1	232.1	224.5	216.4	202.9	207.0	205.4	203.9	208.7	216.7	213.0
1926-27	211.3	197.5	195.5	196.4	193.0	195.7	195.1	196.1	205.7	204.7	198.4	203.7	198.8
1927-28	197.1	191.2	184.2	185.3	188.4	189.9	194.8	198.4	210.5	209.0	195.5	181.7	189.1
1928-29	181.6	198.1	198.1	205.4	211.1	218.4	219.2	216.4	214.7	217.0	233.2	259.5	205.5
1929-30	265.4	300.5	285.1	287.7	279.8	275.0	261.5	263.7	245.9	245.9	192.7	191.9	277.1
1930-31	168.1	152.2	133.6	...	...	...	...	...	...	...	...	...	...

COTTONSEED, DOLLARS PER TON

Year—	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	July	Av'ge
1911-12	20.45	[illegible]	16.73	16.69	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19.04	17.13
1912-13	18.02	17.61	18.04	18.57	21.42	21.98	22.01	21.66	21.89	21.88	21.54	21.37	18.77
1913-14	20.24	21.07	22.01	22.46	23.48	22.70	23.37	23.60	24.17	23.66	23.62	22.78	22.14
1914-15	20.10	13.88	15.28	14.01	17.73	19.14	23.33	22.32	22.69	22.07	20.82	20.05	18.59
1915-16	20.14	20.98	33.73	34.01	35.54	36.85	36.75	36.56	38.13	37.91	35.79	26.06	30.35
1916-17	36.22	41.13	47.19	55.82	56.55	52.53	51.43	53.18	55.94	55.61	57.19	56.90	48.11
1917-18	[illegible]	57.68	65.02	69.38	68.29	67.51	66.96	68.27	68.08	68.16	66.03	64.11	[illegible]
1918-19	61.34	67.80	66.85	64.97	65.95	64.93	64.66	64.00	64.28	63.83	63.80	64.24	65.62
1919-20	66.23	62.13	66.95	72.66	60.07	69.88	69.34	67.18	68.71	69.88	66.16	61.64	67.87
1920-21	43.22	29.96	28.94	26.00	19.83	18.96	19.76	18.92	17.23	17.28	17.06	18.75	[illegible]
1921-22	22.00	27.19	31.05	29.15	26.78	29.24	30.17	32.72	40.70	40.21	37.71	36.92	29.25
1922-23	32.44	25.37	31.79	40.18	42.93	43.35	45.16	46.32	47.60	46.58	43.14	41.42	32.13
1923-24	37.47	40.88	40.90	45.92	46.54	44.37	43.27	41.34	40.42	40.53	39.96	39.07	41.58
1924-25	38.44	31.74	31.95	33.57	35.48	37.50	37.14	38.21	37.94	38.61	36.66	36.41	36.14
1925-26	36.52	33.48	32.82	27.64	27.87	28.40	29.06	29.47	31.51	30.84	31.89	31.31	30.46
1926-27	29.73	27.38	20.06	18.66	18.05	18.55	22.39	25.43	25.80	26.05	26.27	26.59	22.64
1927-28	25.96	34.41	36.60	37.51	37.14	37.40	37.44	[illegible]	39.40	43.00	41.26	39.27	35.53
1928-29	36.87	30.98	34.08	37.17	37.74	38.05	38.73	39.36	38.94	37.78	35.83	34.84	35.31
1929-30	32.69	31.03	31.40	30.75	30.31	28.95	28.89	28.63	29.74	30.61	29.66	27.35	30.41
1930-31	23.99	23.89	20.73	21.26	...	...	...	...	...	...	...	...	...

ALL HAY, DOLLARS PER TON

Year—	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Av'ge
1911-12	13.51	13.73	13.58	13.67	13.95	14.02	14.07	14.52	15.15	15.98	16.26	15.27	14.36
1912-13	13.18	11.62	11.12	11.05	11.44	11.45	10.98	10.74	10.52	10.42	10.48	10.51	11.17
1913-14	10.45	10.74	11.24	11.48	11.97	12.06	11.68	11.68	11.60	11.68	11.64	11.46	11.49
1914-15	11.02	10.93	11.03	10.87	10.95	10.80	10.65	10.86	10.94	11.00	11.10	11.00	10.92
1915-16	10.52	10.07	9.89	9.90	9.92	9.97	10.31	10.65	10.80	11.06	11.37	11.28	10.40
1916-17	10.50	9.80	9.68	9.52	10.31	10.74	11.10	11.44	12.04	13.24	14.31	14.32	11.22
1917-18	13.43	13.08	13.54	14.50	15.85	17.32	18.48	19.01	18.91	18.32	17.55	[illegible]	16.30
1918-19	16.00	16.67	17.94	18.86	19.31	19.64	19.86	19.80	20.17	21.42	22.80	[illegible]	19.42
1919-20	20.94	20.34	20.16	19.58	19.40	20.00	21.16	22.04	22.62	23.58	24.54	24.24	21.27
1920-21	[illegible]	[illegible]	[illegible]	18.20	17.08	16.43	15.70	14.76	13.94	13.34	12.80	12.56	16.65
1921-22	[illegible]	[illegible]	11.53	11.24	11.19	11.29	11.34	11.58	12.05	12.64	12.82	12.28	11.74
1922-23	11.44	10.78	10.68	10.87	11.38	11.82	11.98	12.04	12.18	12.54	12.82	12.32	[illegible]
1923-24	11.78	11.98	12.25	12.44	12.76	13.15	13.59	13.60	13.63	13.73	13.65	13.75	[illegible]
1924-25	13.49	12.95	12.68	12.64	12.88	12.09	12.70	12.83	12.39	12.48	12.17	11.82	12.64
1925-26	12.48	12.25	[illegible]	12.47	13.07	13.40	13.31	13.03	12.97	12.78	13.12	12.98	13.05
1926-27	12.90	13.04	12.88	13.08	13.22	13.47	13.38	13.64	13.48	13.26	13.20	13.10	13.36
1927-28	11.71	9.97	10.51	10.63	10.54	10.55	10.60	10.24	10.19	10.29	10.70	11.01	10.57
1928-29	10.86	10.39	10.59	10.60	10.89	11.23	11.61	12.06	12.37	12.30	12.15	11.88	11.34
1929-30	11.17	10.56	11.05	11.07	11.18	11.04	[illegible]	[illegible]	10.95	10.97	10.98	10.91	11.05
1930-31	10.47	11.31	12.14	12.17	12.19	...	...	...	...	...	...	...	...

WHEAT PRICES, DEC. 1, BY STATES

Department of Agriculture estimates of the average farm price of wheat Dec. 1, by states, in cents per bushel:

	Winter wheat			Spring wheat*			All wheat		
	1928	1929	1930	1928	1929	1930	1928	1929	1930
Maine	...	...	...	165	150	106	165	150	105
Vermont	...	...	...	130	125	100	131	[illegible]	[illegible]
New York	137	124	79	129	124	89	137	124	[illegible]
New Jersey	124	123	87	...	...	...	124	123	[illegible]
Pennsylvania	129	121	80	127	125	90	129	121	[illegible]
Delaware	125	116	78	...	...	...	125	116	[illegible]
Maryland	127	118	77	...	...	...	127	118	[illegible]
Virginia	135	125	97	...	...	...	135	125	97
West Virginia	137	133	102	...	...	...	137	133	102
North Carolina	152	141	109	...	...	...	152	141	109
South Carolina	161	150	131	...	...	...	161	150	131
Georgia	167	156	136	...	...	...	167	155	135
Ohio	131	116	76	114	115	69	131	116	[illegible]
Indiana	124	112	71	109	109	68	124	[illegible]	[illegible]
Illinois	115	111	69	102	109	65	112	111	[illegible]
Michigan	128	113	73	112	112	76	128	113	[illegible]
Wisconsin	105	110	72	106	110	73	106	110	73
Minnesota	96	105	57	101	109	69	96	105	57
Iowa	100	106	65	101	105	63	100	106	65
Missouri	121	113	74	102	110	65	121	113	[illegible]
North Dakota	...	...	...	91	103	64	81	98	51
South Dakota	92	96	52	93	99	49	86	93	46
Nebraska	94	99	53	87	96	[illegible]	94	99	[illegible]
Kansas	94	100	56	90	98	52	94	100	56
Kentucky	138	126	91	...	...	...	138	126	91
Tennessee	143	132	100	...	...	...	143	132	100
Alabama	156	162	135	...	...	...	157	152	135
Mississippi	136	135	135	...	...	...	137	135	135
Texas	110	105	70	...	...	...	110	105	70
Oklahoma	100	99	69	...	...	...	100	99	69
Arkansas	122	129	98	...	...	...	122	129	98
Montana	80	92	46	84	96	49	83	95	[illegible]
Wyoming	86	89	50	82	89	49	83	89	49
Colorado	86	93	53	84	92	54	85	93	53
New Mexico	106	95	60	113	99	65	107	96	61
Arizona	130	135	105	...	...	...	130	135	105
Utah	95	101	64	102	103	68	98	102	66
Nevada	120	125	100	123	130	105	122	129	104
Idaho	90	96	52	90	95	52	90	95	[illegible]
Washington	97	104	54	108	111	59	100	107	[illegible]
Oregon	103	111	58	105	108	59	103	111	[illegible]
California	118	120	85	...	...	...	118	120	85
United States	103.5	106.5	64.3	91.3	101.6	54.3	97.0	104.2	60.1

*Other than durum.

COTTONSEED MEAL—AVERAGE FARM PRICES

Average farm prices of cottonseed meal in the United States, in dollars per ton, on the fifteenth of each month, as reported by the Department of Agriculture:

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av'ge
1910.	32.33	33.77	33.17	32.70	32.69	32.18	32.38	32.64	32.36	31.84	31.37	31.58	[illegible]
1911.	31.83	31.42	31.33	31.09	31.08	30.92	31.17	30.92	31.01	30.73	30.12	30.50	31.01
1912.	30.42	30.87	31.22	31.80	32.28	31.84	31.82	31.53	30.60	30.28	29.37	30.16	31.01
1913.	30.97	31.16	31.08	30.89	31.23	31.63	31.56	31.78	32.32	31.94	31.97	32.36	31.57
1914.	32.49	32.59	32.65	32.75	32.98	32.68	32.62	32.34	30.73	29.44	28.36	29.04	31.44
1915.	29.53	30.88	31.33	31.43	31.54	31.39	31.36	31.07	30.79	33.77	34.96	36.45	32.04
1916.	37.03	37.08	36.46	36.02	35.72	35.60	34.98	35.05	36.17	37.80	41.52	42.96	37.23
1917.	42.95	43.33	43.67	44.73	45.62	45.17	46.45	49.25	50.00	50.98	53.52	55.52	47.60
1918.	56.93	56.25	56.59	56.41	56.21	56.18	55.69	55.60	57.40	59.22	59.93	60.64	57.17
1919.	62.81	62.61	62.88	63.29	63.40	63.06	64.77	71.72	74.08	72.58	76.16	78.57	67.99
1920.	79.39	79.79	79.70	78.87	78.74	78.52	77.63	73.84	68.22	61.81	50.96	47.97	71.29
1921.	42.92	41.93	40.17	37.41	36.75	37.84	38.24	40.74	41.97	43.54	43.67	44.23	40.71
1922.	46.08	46.26	47.90	48.44	50.47	50.42	51.06	48.87	45.48	46.10	50.54	52.70	48.61
1923.	52.79	53.91	53.37	52.79	52.36	51.89	50.36	49.64	49.47	51.08	51.49	51.75	51.74
1924.	52.33	51.78	50.26	49.34	49.09	47.99	48.03	49.78	48.98	48.36	47.86	48.49	49.35
1925.	48.49	48.81	47.01	46.17	46.98	46.36	47.06	48.71	47.43	[illegible]	44.81	43.62	[illegible]
1926*	....	....	44.01	....	....	43.34	....	....	42.56	....	....	35.69	41.40
1927*	....	....	42.00	....	....	45.00	....	....	48.20	....	....	51.20	46.60
1928*	....	....	55.00	....	....	63.40	....	....	55.40	....	....	56.80	57.65
1929*	....	....	57.20	....	....	53.60	....	....	53.60	....	....	52.80	54.30
1930.	....	....	49.60	....	....	50.40	....	....	....	....	....	....	....

*Prices are now compiled quarterly.

UNITED STATES—FLAXSEED DISTRIBUTION

A table compiled by the United States Department of Agriculture, showing the distribution of flaxseed supplies in the United States, by crop years beginning Oct. 1. Figures for the last two years are tentative and subject to revision (000's omitted):

	1921-2	1922-3	1923-4	1924-5	1925-6	1926-7	1927-8	1928-9	1929-1930
Domestic commercial supply	11,276	11,463	19,138	33,572	26,195	21,209	30,330	21,468	18,705
Net imports, Oct. 1-Sept. 30	14,552	25,631	18,646	12,280	20,799	24,252	17,698	22,785	17,466
Total commercial supply	[illegible]	37,094	37,783	45,852	46,994	[illegible]	[illegible]	44,253	36,171
Crushings Oct. 1-Sept. 30	[illegible]	33,806	35,629	40,996	39,716	[illegible]	[illegible]	42,312	31,065
Factory stocks, Sept. 30	1,783	2,812	1,604	2,834	2,507	4,276	3,686	3,156	[illegible]
Commercial stocks, Sept. 30	355	1,076	2,026	2,453	846	1,583	704	924	[illegible]
Balance*	619	—599	—1,376	—431	3,921	—534	1,841	—2,169	—177

*Consists of unmerchantable grain, loss in cleaning, inaccuracies in data, etc.

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GRAIN FUTURES TRADING

Volume of trading (sales only) in grain futures on the nine principal "contract markets" of the United States (Chicago Board of Trade, Chicago Open Board of Trade, Minneapolis Chamber of Commerce, Kansas City Board of Trade, Duluth Board of Trade, St. Louis Merchants' Exchange, Milwaukee Chamber of Commerce, New York Produce Exchange and Seattle Merchants' Exchange) by calendar years and by months in 1928, as reported by the United States Grain Futures Administration, in bushels (000's omitted):

TOTALS BY YEARS

	Chicago	Chicago Open	Minneapolis	K. City	Duluth	St. Louis	Milwaukee	N. York	Seattle	Total
Wheat—										
1922...	11,072,545	366,559	503,956	393,181	198,264	139,471	25,791	.....	.....	12,699,767
1923...	8,572,111	328,452	544,600	347,169	184,400	83,187	22,365	.....	.....	[illegible]
1924...	9,597,415	330,145	642,607	371,676	174,743	91,119	15,324	.....	.....	[illegible]
1925...	3,049,183	534,352	1,066,475	632,035	211,620	106,689	24,258	.....	.....	[illegible]
1926...	13,322,169	541,011	744,705	540,216	188,120	80,265	21,902	82,628	2,134	16,523,151
1927...	9,004,376	252,117	683,210	419,841	221,879	45,708	21,847	95,210	8,863	[illegible]
1928...	[illegible]	341,233	804,891	493,357	[illegible]	37,551	26,226	.....	7,425	[illegible]
1929...	[illegible]	495,572	1,258,228	850,067	[illegible]	27,196	36,470	.....	[illegible]	[illegible]
1930...	12,448,928	362,674	891,197	693,153	272,403	14,554	28,343	.....	[illegible]	[illegible]
Corn—										
1922....	4,506,683	84,742	[illegible]	[illegible]	.....	46,592	23,201	.....	.....	[illegible]
1923....	4,286,837	111,838	[illegible]	[illegible]	.....	54,152	19,650	.....	.....	[illegible]
1924....	5,759,327	139,956	....	[illegible]	.....	52,609	19,226	.....	.....	[illegible]
1925....	5,970,984	115,911	....	[illegible]	.....	44,507	17,430	.....	.....	[illegible]
1926....	3,710,746	108,921	....	[illegible]	.....	14,725	15,650	.....	.....	3,997,497
1927....	6,228,680	156,310	....	[illegible]	.....	25,232	29,799	.....	.....	6,768,418
1928....	6,322,777	171,858	....	[illegible]	.....	19,026	40,617	.....	.....	[illegible]
1929....	4,537,201	134,090	....	[illegible]	.....	9,163	30,175	.....	.....	[illegible]
1930....	4,352,349	119,937	....	234,641	.....	4,880	29,133	.....	.....	4,740,850
Oats—										
1922....	1,559,923	12,659	173,962	[illegible]	.....	3,080	12,339	.....	.....	[illegible]
1923....	788,303	4,744	92,289	[illegible]	.....	625	9,270	.....	.....	897,608
1924....	1,766,940	23,480	138,245	[illegible]	.....	.....	11,907	.....	.....	1,947,724
1925....	2,187,143	12,700	329,360	[illegible]	.....	.....	13,627	.....	.....	[illegible]
1926....	1,003,938	9,430	256,378	[illegible]	.....	.....	14,312	.....	.....	[illegible]
1927....	1,185,966	26,115	165,535	[illegible]	.....	.....	13,087	660	.....	1,381,690
1928....	821,209	7,750	84,867	.....	.....	.....	8,507	.....	.....	922,333
1929....	874,304	6,559	110,564	.....	.....	.....	10,226	.....	.....	[illegible]
1930....	780,349	4,625	95,356	165	.....	.....	9,687	.....	.....	893,182
Rye—										
1922....	353,230	4	40,484	.....	96,495	.....	2,420	.....	.....	492,633
1923....	283,035	103	93,448	.....	84,255	.....	2,987	.....	.....	463,828
1924....	703,488	4,040	96,626	.....	[illegible]	.....	3,591	.....	.....	938,413
1925....	688,376	558	62,489	.....	[illegible]	.....	3,703	.....	.....	[illegible]
1926....	414,366	194	74,765	.....	64,640	.....	4,565	.....	.....	[illegible]
1927....	462,961	1,152	52,178	.....	87,651	.....	4,247	.....	.....	[illegible]
1928....	396,775	267	29,688	.....	[illegible]	.....	3,734	.....	.....	482,951
1929....	372,720	276	44,590	.....	[illegible]	.....	3,268	.....	.....	464,190
1930....	565,444	597	77,144	.....	[illegible]	.....	4,583	.....	.....	688,151
Barley—										
1922....	554	.....	16,839	.....	.....	.....	11	.....	.....	17,404
1923....	265	.....	11,781	.....	.....	.....	.....	.....	.....	12,046
1924....	...	.....	22,345	.....	.....	.....	.....	.....	.....	22,345
1925....	...	.....	37,453	40,561	1,349	.....	.....	.....	.....	89,363
1926....	...	.....	36,327	.....	580	.....	.....	.....	.....	36,907
1927....	...	.....	38,019	.....	549	.....	.....	.....	.....	38,568
1928....	...	.....	60,550	.....	4,340	.....	.....	.....	.....	64,890
1929....	...	.....	89,266	.....	881	.....	.....	.....	.....	90,147
1930....	...	.....	95,157	.....	577	.....	.....	.....	.....	95,734
Flaxseed—										
1922....	...	.....	9,202	.....	19,747	.....	.....	.....	.....	28,949
1923....	...	.....	12,279	.....	26,569	.....	.....	.....	.....	38,848
1924....	...	.....	13,414	.....	50,142	.....	.....	.....	.....	63,556
1925....	...	.....	19,093	.....	34,793	.....	.....	.....	.....	53,886
1926....	...	.....	25,503	.....	31,210	.....	.....	.....	.....	56,713
1927....	...	.....	25,936	.....	37,838	.....	.....	.....	.....	63,774
1928....	...	.....	24,932	.....	22,674	.....	.....	.....	.....	47,606
1929....	...	.....	23,388	.....	20,839	.....	.....	.....	.....	44,227
1930....	...	.....	17,402	.....	25,467	.....	.....	.....	.....	42,869
All grains—										
1922..	17,492,936	463,964	752,384	570,214	314,506	189,143	63,762	.....	.....	19,846,908
1923..	13,930,551	445,137	754,870	525,649	295,224	137,964	54,272	.....	.....	16,143,667
1924..	17,827,070	497,601	918,662	605,833	356,553	143,728	60,148	.....	.....	20,398,595
1925..	26,895,686	663,521	1,401,884	844,909	307,740	151,176	59,018	.....	.....	30,364,934
1926..	18,451,219	659,556	1,137,678	690,512	284,550	94,990	56,430	82,628	2,134	21,459,697
1927..	16,981,983	525,694	964,878	650,365	337,917	71,040	69,309	105,870	8,858	19,716,914
1928..	16,479,885	521,108	1,006,018	777,311	373,719	56,577	79,084	.....	7,425	19,300,127
1929..	21,467,795	636,827	1,626,036	1,082,520	469,539	36,359	80,139	.....	12,729	25,301,944
1930..	18,200,970	487,833	1,179,954	928,579	338,830	19,744	71,746	.....	11,395	21,239,051

VOLUME OF GRAIN FUTURES TRADING IN 1930

	Chicago	Chicago Open	Minneapolis	K. City	Duluth	St. Louis	Milwaukee	Seattle
Wheat—								
January	[illegible]	31,031	83,124	49,578	11,470	1,993	3,375	856
February	1,277,637	34,200	99,541	53,857	11,360	1,435	3,900	1,108
March	1,028,026	30,083	75,277	47,968	15,062	781	2,911	631
April	1,259,039	35,856	88,628	76,441	33,539	2,695	2,925	1,073
May	675,505	33,265	43,971	32,381	14,673	674	2,399	528
June	1,178,377	36,119	71,478	56,593	28,972	1,066	2,288	898
July	1,129,477	31,447	49,559	78,805	12,136	996	2,216	593
August	1,264,132	34,831	103,638	82,103	39,592	1,139	2,203	1,432
September	1,011,772	29,674	74,439	58,272	35,410	703	1,694	1,340
October	966,916	33,670	74,553	53,546	26,726	1,507	1,543	812
November	887,796	24,014	81,945	66,096	28,066	1,480	1,972	1,422
December	418,660	8,484	45,044	38,513	15,388	385	918	602
Corn—								
January	175,602	4,063	....	12,394	....	325	2,137	....
February	224,854	6,686	....	17,021	....	647	2,420	....
March	297,396	8,564	....	19,406	....	651	2,398	....
April	252,317	6,925	....	20,606	....	480	2,668	....
May	265,421	7,038	....	15,492	....	300	1,871	....
June	297,025	7,403	....	15,801	....	130	1,741	....
July	464,695	10,652	....	20,620	....	280	2,333	....
August	571,477	11,571	....	24,901	....	438	2,585	....
September	404,731	9,581	....	15,347	....	561	2,482	....
October	429,448	9,639	....	19,503	....	203	2,305	....
November	381,025	10,319	....	23,534	....	506	2,406	....
December	588,129	26,396	....	30,736	....	369	3,787	....
Oats—								
January	34,662	172	4,446	....	....	....	489	....
February	43,717	219	4,583	....	....	....	774	....
March	38,599	277	5,295	....	....	....	753	....
April	48,563	290	11,720	....	....	....	1,018	....
May	36,763	290	5,635	....	....	....	666	....
June	41,837	246	8,721	....	....	....	485	....
July	48,298	189	3,564	....	....	....	530	....
August	156,736	665	15,850	75	....	....	1,390	....
September	91,652	478	9,347	40	....	....	1,109	....
October	67,822	544	7,329	20	....	....	517	....
November	95,348	759	12,823	....	....	....	1,279	....
December	76,352	497	9,038	20	....	....	677	....
Rye—								
January	51,104	....	2,940	....	806	....	128	....
February	54,318	....	2,728	....	1,429	....	230	....
March	75,26[illegible]	165	3,883	....	4,408	....	257	....
April	50,160	90	4,530	....	4,905	....	425	....
May	26,071	16	2,143	....	1,191	....	186	....
June	59,751	94	7,449	....	5,117	....	357	....
July	40,337	90	4,410	....	1,344	....	286	....
August	59,912	54	13,019	....	7,063	....	714	....
September	44,016	1	8,620	....	3,599	....	519	....
October	26,115	11	4,709	....	1,696	....	296	....
November	42,636	7	14,961	....	6,350	....	782	....
December	34,762	69	7,752	....	2,475	....	402	....
Barley—								
January	....	....	7,038	....	33	....	....	....
February	....	....	4,665	....	1	....	....	....
March	....	....	4,930	....	8	....	....	....
April	....	....	10,455	....	84	....	....	....
May	....	....	3,787	....	6	....	....	....
June	....	....	8,191	....	85	....	....	....
July	....	....	2,896	....	[illegible]	....	....	....
August	....	....	16,822	....	107	....	....	....
September	....	....	10,571	....	81	....	....	....
October	....	....	5,959	....	29	....	....	....
November	....	....	14,404	....	114	....	....	....
December	....	....	5,439	....	[illegible]	....	....	....
Flaxseed—								
January	....	....	430	....	442	....	....	....
February	....	....	235	....	358	....	....	....
March	....	....	656	....	[illegible]	....	....	....
April	....	....	825	....	[illegible]	....	....	....
May	....	....	806	....	[illegible]	....	....	....
June	....	....	856	....	1,258	....	....	....
July	....	....	972	....	1,253	....	....	....
August	....	....	3,024	....	2,547	....	....	....
September	....	....	3,932	....	6,253	....	....	....
October	....	....	1,990	....	4,264	....	....	....
November	....	....	3,374	....	[illegible]	....	....	....
December	....	....	1,302	....	[illegible]	....	....	....
All grains—								
January	[illegible]	36,166	97,978	61,972	12,751	2,318	6,129	[illegible]
February	[illegible]	41,305	111,757	70,878	13,148	2,082	7,321	[illegible]
March	1,439,282	39,089	90,039	67,374	20,115	1,432	6,319	[illegible]
April	1,610,109	43,161	116,158	96,047	39,650	3,175	[illegible]	[illegible]
May	1,203,760	40,609	56,042	47,873	17,588	974	[illegible]	[illegible]
June	1,576,99[illegible]	43,861	96,695	72,394	35,432	1,196	4,871	893
July	1,682,807	42,378	61,401	99,325	14,741	1,276	5,364	593
August	2,052,257	47,121	152,353	107,070	48,309	1,577	6,892	1,432
September	1,553,071	39,734	106,900	73,659	45,352	1,264	5,801	1,340
October	1,490,301	43,864	94,540	73,069	32,716	1,710	4,661	812
November	1,406,805	36,099	127,507	89,630	38,570	1,986	6,439	1,422
December	1,117,903	35,446	68,575	69,270	19,459	754	5,784	602

TERMINAL WHEAT PRICES

Weighted average price of wheat at Minneapolis, Kansas City and St. Louis, as reported by the Bureau of Agricultural Economics, in cents per bushel:

NO. 1 NORTHERN SPRING, MINNEAPOLIS

Year beginning July—	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Weighted average*
1910	121	113	109	108	104	103	106	102	98	96	99	97	105
1911	99	105	109	110	105	102	106	[illegible]	108	110	116	113	107
1912	109	98	89	90	84	82	80	[illegible]	85	88	91	92	87
1913	91	88	87	84	85	86	87	93	92	91	91	92	88
1914	92	110	112	111	118	120	138	[illegible]	149	158	[illegible]	135	120
1915	144	118	97	102	102	114	129	[illegible]	114	122	122	111	109
1916	[illegible]	164	164	179	195	179	193	[illegible]	203	238	296	273	176
1917	266	247	217	217	217	217	217	217	217	217	217	217	229
1918	217	223	223	219	222	222	221	224	236	256	259	248	225
1919	266	259	256	267	285	307	301	267	284	306	309	293	272
1920	288	256	254	216	179	166	179	172	166	153	157	169	207
1921	167	148	151	134	125	131	134	161	161	158	161	149	[illegible]
1922	149	111	110	115	123	125	123	126	124	130	128	117	[illegible]
1923	112	118	121	120	114	116	119	121	121	121	122	125	117
1924	137	131	130	146	148	160	180	187	171	150	167	161	156
1925	159	164	150	149	155	169	173	167	161	164	162	163	161
1926	172	149	143	149	146	146	143	142	139	138	147	149	146
1927	147	143	134	129	130	132	135	134	139	153	157	148	136
1928	138	110	110	116	116	115	121	128	125	120	[illegible]	115	[illegible]
1929	143	135	135	131	128	131	131	125	115	114	110	105	..
1930	96	92	87	83	75	77	..	..	..	..	..	..	..

NO. 2 RED WINTER, ST. LOUIS

Year beginning July—	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Weighted average*
1910	107	102	102	100	96	98	103	96	93	90	94	88	99
1911	81	88	94	100	96	97	102	101	104	113	121	111	94
1912	103	104	103	109	104	107	111	109	108	109	104	90	105
1913	85	88	94	93	94	95	96	95	95	91	96	81	89
1914	87	93	110	110	111	118	140	157	150	161	160	119	110
1915	117	114	114	121	116	123	134	130	117	122	120	110	120
1916	125	145	160	173	187	183	190	188	205	266	304	265	[illegible]
1917	230	232	216	216	216	216	216	215	216	216	215	215	[illegible]
1918	221	221	219	222	[illegible]	232	241	238	255	271	260	[illegible]	223
1919	222	220	221	224	229	248	270	255	258	276	299	289	239
1920	273	251	258	226	202	199	202	190	166	[illegible]	158	150	213
1921	123	123	136	126	120	121	122	138	142	141	138	118	127
1922	112	109	114	123	129	136	137	139	136	139	133	123	121
1923	97	99	109	116	112	114	116	118	114	113	112	116	107
1924	135	138	140	156	163	179	210	202	186	177	156	159	159
1925	159	172	171	170	171	181	194	186	170	171	162	[illegible]	169
1926	142	134	136	140	136	137	138	135	130	129	142	150	135
1927	141	142	142	145	141	144	161	156	169	196	196	173	143
1928	147	138	145	144	145	139	142	140	135	125	117	[illegible]	[illegible]
1929	130	132	135	132	129	135	134	123	118	117	111	105	..
1930	85	80	88	87	83	83	..	..	..	..	..	..	..

NO. 2 HARD WINTER, KANSAS CITY

Year beginning July—	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	Weighted average*
1910	104	100	99	95	91	93	95	90	88	88	90	88	[illegible]
1911	87	93	95	104	100	100	105	103	105	109	111	109	[illegible]
1912	92	80	88	88	83	84	87	86	86	88	87	88	[illegible]
1913	82	83	87	84	83	84	85	86	88	87	90	85	[illegible]
1914	78	91	104	102	108	113	134	154	110	154	150	121	[illegible]
1915	136	126	107	107	103	112	120	120	105	112	110	100	119
1916	114	141	157	167	185	172	189	182	197	243	301	274	171
1917	268	261	212	212	212	212	212	212	212	212	212	..	..
1918	220	216	216	216	215	224	231	226	230	262	260	217	219
1919	225	218	224	230	246	263	282	242	249	275	293	276	242
1920	268	245	244	207	176	169	172	162	155	133	117	138	153
1921	118	115	122	110	109	109	113	129	134	135	134	[illegible]	[illegible]
1922	113	104	104	113	117	117	114	115	116	120	116	101	113
1923	96	101	109	112	109	109	113	111	109	104	106	105	105
1924	120	119	120	137	143	162	182	181	[illegible]	151	163	160	135
1925	154	164	158	158	163	172	178	171	161	159	156	153	163
1926	137	131	132	139	137	138	137	135	133	131	142	144	135
1927	136	135	131	128	131	132	133	133	138	152	160	147	133
1928	120	106	107	110	112	111	114	118	116	110	101	105	112
1929	125	123	124	122	119	121	110	113	102	101	99	89	..
1930	80	81	78	74	69	71	..	..	..	..	..	..	..

*Average of daily prices weighted by car lot sales.

Bureau of Agricultural Economics. Compiled from Minneapolis Dairy Market Record, St. Louis Daily Market Reporter, and Kansas City Grain Market Review, formerly Daily Price Current. Data, 1899-1905 available in 1921 Yearbook, pp. 582-583, Table 32.

CHICAGO AVERAGE CORN PRICES

Monthly average weighted price of No. 3 yellow corn at Chicago, as reported by the Department of Agriculture, in cents per bushel:

	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Av.
1920-21	77	74	65	63	62	57	60	63	60	56	53	45	[illegible]
1921-22	47	[illegible]	48	55	57	58	62	61	64	62	64	69	[illegible]
1922-23	71	[illegible]	70	[illegible]	73	79	82	81	88	88	80	104	[illegible]
1923-24	82	71	76	[illegible]	77	77	77	82	109	117	114	110	[illegible]
1924-25	111	120	124	122	117	105	115	113	108	102	91	82	[illegible]
1925-26	83	76	79	75	72	[illegible]	[illegible]	70	78	80	79	77	[illegible]
1926-27	71	76	74	73	68	71	67	99	102	109	97	[illegible]	[illegible]
1927-28	84	86	89	95	99	105	108	103	106	102	100	96	[illegible]
1928-29	84	83	93	94	94	90	87	91	99	101	101	95	92
1929-30	86	88	85	82	80	82	79	79	82	99	91	82	..
1930-31	71	69	..	..	..	..	..	..	..	..	..	..	..

Established 1883

THE THIRTY-YEAR RECORD OF

The Western Millers Mutual Fire Insurance Co.

KANSAS CITY, MISSOURI

Year—	Average amount at risk	Income premium and interest	Losses paid	Expenses	Dividends	Cash assets
1901	$1,850,000	$69,322.95	$36,118.39	$8,606.92	$27,900.00	$10,200.00
1902	1,920,000	76,323.97	53,771.82	7,750.00	11,250.00	7,750.00
1903	2,189,000	79,356.15	46,314.08	16,854.03	25,080.00	16,854.03
1904	2,850,000	148,405.00	23,158.12	13,725.57	66,682.00	57,630.78
1905	4,350,000	169,630.85	42,091.67	18,333.00	78,775.00	86,412.38
1906	4,875,000	163,203.28	99,543.24	18,450.09	37,950.00	80,641.90
1907 Reorganized A	4,353,000	172,019.70	65,609.61	15,564.51	67,500.00	105,019.13
1908	4,888,000	218,967.39	45,562.91	15,948.48	108,000.00	153,761.63
1909	5,460,000	205,874.34	71,690.93	16,333.65	100,760.00	172,209.45
1910	5,946,000	237,974.98	68,333.71	17,851.90	118,080.00	201,765.78
1911	6,020,000	234,430.23	85,843.17	19,099.21	108,360.00	217,650.00
1912 B	5,877,000	270,649.20	53,260.01	16,831.72	140,980.00	254,026.26
1913 C	5,900,000	242,290.60	67,633.87	16,470.43	124,695.00	266,030.00
1914	6,422,000	266,761.05	41,636.03	18,317.33	152,850.00	298,559.00
1915	7,033,000	255,700.47	63,872.67	21,770.16	146,070.00	299,826.00
1916	8,390,000	278,690.64	100,082.77	22,229.90	140,896.50	298,099.00
1917	9,802,000	341,390.54	89,691.24	23,561.90	174,590.00	320,950.00
1918	11,074,000	403,272.14	89,023.57	29,304.80	205,380.00	387,571.15
1919	13,048,000	453,742.43	62,318.94	32,812.82	255,595.00	437,335.00
1920	14,271,000	436,933.51	87,621.67	39,791.05	243,320.00	453,437.50
1921	13,812,000	340,508.33	127,819.48	36,287.94	181,010.00	402,741.77
1922	12,268,000	290,395.32	110,165.87	40,577.12	133,900.00	372,456.80
1923 D	12,210,000	280,077.39	84,049.89	44,405.16	143,685.23	373,500.16
1924	13,224,000	264,449.37	84,195.59	37,002.34	117,522.41	394,720.79
1925	15,949,960	292,572.48	49,895.43	47,141.32	108,823.05	481,768.20
1926	21,164,036	342,397.65	107,043.57	62,703.75	116,453.57	520,591.74
1927	28,246,035	384,057.02	104,327.63	90,487.23	127,360.49	641,082.74
1928	37,265,512	459,695.79	139,003.62	106,590.53	167,068.92	685,994.73
1929	52,580,916	606,008.44	135,869.47	154,341.51	195,151.60	796,320.21
1930	77,420,349	587,707.07	175,681.21	184,606.75	202,393.94	834,274.34

A—Cancelled all Factory Risks. B—Cancelled all Rice Mill Risks, Not Sprinklered and Fireproof. C—Cancelled all Terminal Elevators Risks, Not Sprinklered and Fireproof. D—Commenced writing Selected General Business.

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FOR PARTICULARS ADDRESS: CHARLES H. RIDGWAY, Secretary, Board of Trade Building, KANSAS CITY, MO.

New Orleans—Grain and Flour Movement

Receipts and shipments at New Orleans, La., by calendar years (000's omitted):

RECEIPTS

	Wheat bus	Flour bbls	Corn bus	Oats bus	Barley bus
1930..	12,930	2,217	1,034	647	15
1929..	7,313	2,023	6,402	1,039	976
1928..	5,787	1,965	9,088	1,071	3,699
1927..	*...	1,462	*...	*...	*...
1926*..	.....	.....	.....	.....	.....
1925..	13,530	2,532	5,787	1,121	78
1924..	23,209	4,226	5,042	651	4
1923..	10,429	3,037	9,132	703	51
1922..	26,317	2,622	28,819	1,222	146
1921..	58,201	1,804	15,201	799	1,093
1920..	48,567	2,518	3,244	3,501	6,033
1919..	13,832	2,997	2,628	7,236	7,838
1918..	14,148	3,131	13,497	19,071	6,589
1917..	17,006	....	3,765	9,247	8,870
1916..	23,724	2,970	6,792	3,397	934
1915..	32,202	3,094	6,789	3,860	...
1914..	34,349	2,521	3,064	4,304	...

SHIPMENTS

	Wheat bus	Flour bbls	Corn bus	Oats bus	Barley bus
1930..	9,703	1,931	156	286	68
1929..	6,286	1,929	8,466	761	926
1928..	6,332	1,686	6,488	630	2,945
1927..	*...	2,178	*...	*...	*...
1926*..	.....	.....	.....	.....	.....
1925..	15,094	2,277	5,108	1,106	14
1924..	21,286	3,647	5,609	520	4
1923..	11,535	2,757	10,092	680	1,414
1922..	27,371	2,249	28,197	...	176
1921..	55,894	2,256	13,825	....	925
1920..	49,903	1,925	1,244	907	6,203
1919..	12,678	2,557	1,060	5,788	7,012
1918..	9,568	2,669	8,666	17,358	7,546
1917..	17,006	....	3,765	9,247	8,870
1916..	22,910	2,198	5,313	445	529
1915..	30,030	2,379	4,053	1,491	...
1914..	21,432	1,671	1,754	1,358	...

*Not available.

UNITED STATES—WHEAT EXPORTS BY CLASSES

Exports of wheat from the United States by classes, in crop years, as reported by the Department of Agriculture, in thousand bushels. Distribution made on the basis of United States inspections for export by ports and inspections of United States wheat in the eastern division of Canada. Exports by classes prior to 1923 are not as accurate as for later years, due to the larger amounts of mixed wheat:

Year—	Hard red spring	Durum	Hard red winter	Soft red winter	White	Total
1920-21	18,421	31,937	162,544	59,296	21,070	293,268
1921-22	25,613	25,645	99,451	29,274	26,139	206,122
1922-23	13,975	43,188	61,165	22,770	13,853	154,951
1923-24	2,068	18,536	26,984	10,464	20,441	78,493
1924-25	21,367	33,816	129,578	8,333	11,201	195,159
1925-26	1,958	26,834	9,477	2,568	13,157	62,189
1926-27	2,171	21,970	73,123	31,352	27,441	156,246
1927-28	6,116	30,916	65,184	13,452	30,571	145,999
1928-29	2,183	44,779	37,809	2,934	15,359	103,114

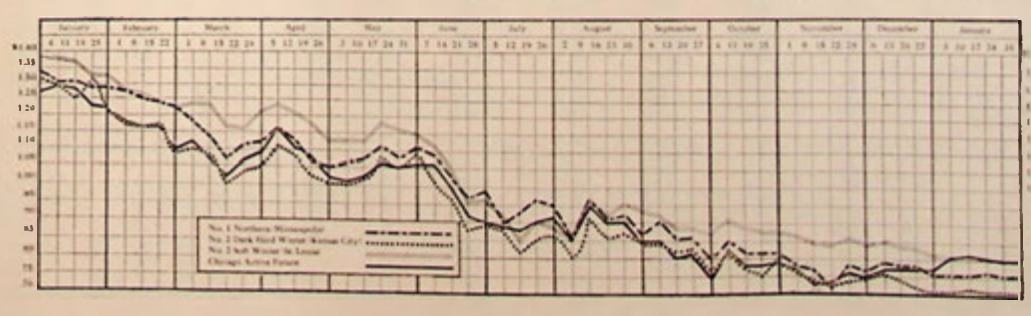
European Market Days

A list showing the market days in various European cities:

London: Monday, Wednesday and Friday.
Liverpool: Tuesday and Friday.
Glasgow: Monday, Wednesday and Friday.
Leith: Wednesday.
Belfast: Friday.
Dublin: Friday.
Amsterdam: Monday, Wednesday and Friday.
Rotterdam: Monday, Tuesday and Thursday.
Hamburg: Daily.
Copenhagen: Daily.
Oslo: Tuesday and Friday.
Stockholm: Daily.
Gothenburg: Daily.

MOVEMENT OF WHEAT PRICES IN THE UNITED STATES

Course of cash wheat prices at Minneapolis, Kansas City and St. Louis from January, 1928, to January, 1931, in dollars per bushel:



WINNIPEG AVERAGE PRICES

Average daily closing prices of cash No. 1 northern wheat at Winnipeg by months and crop years, in cents per bushel (fractions omitted):

Crop of—	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Average of years
1907-08	103	111	102	103	108	106	109	106	112	104	105	108	106
1908-09	100	98	102	93	99	106	111	130	124	130	130	111	111
1909-10	98	97	98	99	103	102	104	102	95	93	111	108	101
1910-11	102	96	93	90	94	91	90	91	95	97	96	99	94
1911-12	100	100	98	94	95	97	91	103	104	107	107	106	100
1912-13	95	90	83	80	83	84	85	90	93	97	97	94	88
1913-14	86	80	83	83	86	89	90	90	94	92	92	109	89
1914-15	112	112	119	119	136	153	149	156	159	133	134	113	133
1915-16	94	97	103	110	123	122	109	115	117	111	118	149	114
1916-17	169	174	195	175	179	170	187	230	270	246	236	239	207
1917-18	224	221	221	221	221	221	221	231	221	221	221	221	221
1918-19	224	224	224	224	224	224	224	224	224	224	229		224
1919-20	230	230	230	230	280	280	280	280	301	315	315	305	273
1920-21	278	282	205	193	194	188	191	176	186	189	183	180	198
1921-22	148	116	111	113	114	134	141	143	144	133	136	118	129
1922-23	100	101	109	109	108	111	113	120	117	116	108	113	106
Average of months	141	136	136	133	140	142	143	148	153	150	151	145	

Crop of—	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Av. of years
1923-24*	112	106	97	97	93	96	99	98	98	104	114	135	104
1924-25	143	142	159	164	172	196	196	176	156	182	171	162	168
1925-26	167	137	127	142	157	156	154	148	157	163	153	158	150
1926-27	151	143	143	141	133	135	139	142	145	165	161	162	146
1927-28	160	145	144	145	140	142	142	148	156	157	142	130	146
1928-29	118	117	123	121	117	121	128	127	122	113	118	160	124
1929-30	158	149	141	133	137	130	117	106	110	108	103	95	121
1930-31	92	78	72	64	55	54	...	...	...	...	...	...	...
months	141	136	136	133	140	142	143	148	153	150	151	145	
Average of months	137	127	125	126	125	128	138	135	149	139	137	143	...

*Crop year changed to begin with August.

MILLFEED—AVERAGE PRICES

Average monthly prices of various millfeeds at Minneapolis, Kansas City and Buffalo, based on carload lots, prompt delivery, per ton, in 100-lb sacks:

	Minneapolis		Kansas City		Buffalo	
1923—	Spring bran	Middlings	Bran	Brown shorts	Bran	Middlings
July	$20.05	$21.00	$19.00	$25.20	$25.00	$30.10
August	22.41	25.58	22.37	26.18	28.12	30.75
September	27.47	28.40	27.06	28.93	32.25	33.25
October	28.35	28.75	27.83	29.60	33.00	33.80
November	27.62	27.62	26.16	27.50	30.56	29.93
December	26.37	25.81	25.37	26.94	29.87	28.62
1924—						
January	25.95	26.15	25.35	27.00	29.60	29.60
February	24.56	25.00	25.00	26.12	28.37	29.50
March	23.00	22.93	23.93	25.00	27.12	26.87
April	21.95	22.60	23.55	23.90	26.85	25.40
May	18.00	19.00	17.75	18.25	23.83	25.00
June	19.00	19.56	18.93	20.81	23.56	23.43
July	22.35	24.85	22.05	23.70	30.81	31.93
August	19.00	26.50	23.43	26.43	31.62	33.12
September	24.56	26.43	22.87	26.18	27.50	29.62
October	24.90	26.90	23.45	28.70	27.41	29.00
November	26.12	28.18	24.43	29.25	27.12	29.76
December	29.87	31.50	29.18	32.00	32.13	35.37
1925—						
January	31.18	33.81	29.87	32.81	33.81	37.25
February	25.87	27.62	24.37	28.87	30.12	33.50
March	24.80	27.35	24.80	27.35	28.05	30.75
April	23.43	24.37	25.62	25.68	26.56	26.58
May	26.62	29.00	27.62	30.68	31.75	34.06
June	26.75	29.80	27.37	31.25	31.45	33.30
July	23.75	25.62	24.36	29.12	29.12	30.50
August	29.50	27.06	26.31	31.31	28.87	30.75
September	23.40	26.40	24.40	30.30	27.75	30.80
October	22.81	25.00	24.00	29.87	26.25	28.12
November	26.25	27.37	27.18	30.25	30.50	31.37
December	26.50	26.96	26.80	29.25	29.80	29.60
1926—						
January	26.56	26.50	26.37	28.43	31.76	31.75
February	24.37	24.62	24.12	27.00	29.31	29.37
March	22.50	23.06	22.40	24.15	27.00	27.10
April	24.62	24.62	25.37	26.93	29.62	29.62
May	24.12	23.31	23.08	25.00	29.12	28.62
June	21.70	21.85	20.35	24.30	25.60	25.60
July	22.12	23.13	20.62	24.75	25.93	26.87
August	22.10	25.10	21.06	25.12	26.05	26.80
September	21.75	22.75	20.81	23.68	23.50	27.06
October	22.33	23.08	21.25	25.91	25.33	26.25
November	23.50	24.35	22.20	26.00	25.80	28.00
December	26.12	27.26	24.31	27.00	30.82	31.68
1927—						
January	26.50	27.95	25.50	29.90	30.45	31.30
February	27.25	28.91	26.25	29.94	31.88	32.88
March	26.70	28.28	25.87	28.31	30.69	31.94
April	26.70	28.15	26.70	28.50	31.85	32.60
May	28.12	29.25	27.75	30.00	32.75	33.50
June	26.75	29.13	26.37	30.75	31.31	33.13
July	24.90	31.15	24.45	32.30	29.30	35.55
August	26.50	34.68	27.06	36.88	31.00	39.38
September	26.00	29.46	26.68	33.06	30.06	33.56
October	25.80	27.80	26.15	30.35	29.45	30.40
November	28.38	29.31	27.94	32.08	31.75	32.50
December	29.65	30.50	29.80	32.50	33.00	35.25
1928—						
January	30.62	30.62	30.68	30.72	35.31	34.94
February	32.37	31.94	32.25	32.88	36.00	36.00
March	35.60	37.35	35.60	36.10	39.10	39.40
April	34.25	34.25	34.60	36.31	38.25	37.87
May	34.37	39.65	34.18	37.95	40.05	41.60
June	29.10	35.44	29.45	38.60	34.87	38.00
July	26.43	32.36	26.75	34.15	30.60	34.75
August	24.12	25.10	23.75	27.42	27.90	28.00
September	25.10	27.44	25.60	32.31	28.85	28.50
October	28.06	29.55	27.56	32.10	31.80	33.00
November	30.63	31.06	29.88	32.33	33.62	34.06
December	31.40	32.05	30.24	31.68	34.18	35.80
1929—						
January	30.16	30.50	29.58	31.25	34.33	34.50
February	29.12	29.12	27.06	29.75	33.50	32.75
March	27.00	27.00	25.94	29.17	31.69	32.56
April	23.75	23.94	23.06	27.19	27.87	27.56
May	22.45	22.55	20.90	25.15	25.80	25.50
June	22.62	22.62	21.34	24.12	25.62	25.75
July	26.20	28.15	25.25	29.95	29.65	31.33
August	26.82	29.56	25.06	29.77	29.50	32.19
September	29.00	32.37	27.62	34.87	32.37	35.00
October	28.35	32.50	27.09	32.25	32.15	35.05
November	27.94	29.62	26.81	30.50	31.50	32.75
December	27.83	28.37	26.12	27.78	31.75	32.41
1930—						
January	26.12	26.50	25.37	26.60	31.00	30.25
February	24.37	24.31	23.87	25.56	28.25	28.00
March	23.05	22.12	22.30	23.62	26.25	25.50
April	27.19	26.25	26.93	28.20	31.25	30.85
May	24.00	24.81	24.15	24.25	28.94	28.75
June	23.31	22.19	20.12	24.00	24.75	25.05
July	19.12	20.25	18.43	21.06	22.25	22.87
August	23.20	24.81	23.00	26.43	26.87	27.50
September	20.12	22.55	20.44	24.50	23.90	24.35
October	18.81	19.62	18.75	21.75	22.25	22.12
November	17.80	17.69	17.35	19.18	20.19	19.12
December	15.75	16.75	15.62	17.80	20.35	19.80

RELATIVE RETAIL FOOD PRICES

Relative retail prices of the principal articles of food in the United States, the average price for 1913 being rated as 100, as estimated by the federal Bureau of Labor Statistics:

Year and month—	Round steak	Milk	Bread	Flour	Bacon	Rice	Potatoes	Sugar	Eggs	Butter
1913—										
Average for year	100	100	100	100	100	100	100	100	100	100
January	92	100	100	100	94	99	91	106	108	107
February	93	100	100	100	95	99	90	100	91	104
March	96	100	100	100	97	99	88	99	77	104
April	99	100	100	100	99	99	87	98	73	105
May	100	99	100	101	100	99	91	97	76	96
June	101	99	100	101	101	99	104	97	81	91
July	104	99	100	101	104	100	110	100	87	94
August	104	98	100	100	105	100	109	102	96	92
September	104	100	100	100	104	100	110	104	109	96
October	104	101	100	99	103	100	106	101	121	100
November	102	102	100	99	101	100	107	99	144	101
December	101	102	100	99	99	100	106	98	139	104
1925—										
Average for year	156	157	168	185	173	128	212	131	161	143
January	147	156	164	182	149	123	147	147	204	137
February	147	156	170	194	150	124	153	140	165	132
March	151	155	168	194	164	126	147	140	113	135
April	155	155	168	185	173	126	141	136	110	139
May	157	154	168	185	172	126	159	131	114	136
June	158	154	168	185	174	126	206	131	123	134
July	164	155	168	185	180	129	259	129	134	135
August	162	156	168	185	183	130	269	127	142	141
September	160	158	168	185	183	130	212	127	150	146
October	159	161	168	179	184	130	218	124	176	165
November	154	161	168	182	182	131	306	120	201	166
December	154	161	168	186	180	131	306	122	192	151
1926—										
Average for year	160	157	168	182	180	133	285	125	141	139
January	157	160	168	188	179	133	341	122	156	146
February	156	160	168	191	181	133	335	122	127	142
March	157	158	168	188	178	135	329	122	112	140
April	158	156	168	185	180	135	294	120	112	134
May	161	156	168	185	183	136	363	122	113	131
June	162	155	168	185	191	136	294	126	118	131
July	163	155	168	182	194	136	241	126	122	131
August	162	156	168	182	193	133	212	127	130	132
September	163	157	168	176	192	135	229	127	149	137
October	161	157	168	173	192	133	224	129	169	142
November	159	158	168	173	189	130	236	129	191	145
December	158	160	168	170	184	129	235	133	189	155
1927—										
Average for year	160	158	168	167	175	122	223	133	131	145
January	158	158	168	170	181	126	235	136	162	153
February	159	158	168	170	180	124	224	136	128	154
March	160	158	168	167	179	124	218	135	103	155
April	163	157	168	167	178	123	218	133	98	153
May	166	156	168	167	176	122	265	133	97	139
June	166	156	166	168	174	123	353	133	97	136
July	170	157	166	167	173	123	247	136	107	135
August	171	158	166	170	172	122	200	133	122	134
September	171	158	166	167	172	122	188	133	141	139
October	170	160	166	167	173	121	177	131	164	145
November	170	160	166	164	172	120	177	131	179	147
December	171	161	164	164	168	118	177	129	173	153
1928—										
Average for year	168	160	163	161	163	115	158	129	135	148
January	173	161	164	161	165	117	177	129	162	151
February	174	161	164	161	162	117	177	129	125	147
March	176	160	163	161	159	116	200	129	107	150
April	178	158	163	164	159	115	206	129	104	144
May	181	158	163	170	160	115	194	131	109	143
June	187	157	164	173	160	114	171	133	113	141
July	197	158	164	170	163	115	136	133	121	142
August	202	158	164	164	166	114	129	129	130	145
September	205	160	163	161	168	115	129	127	146	150
October	200	160	163	158	168	114	129	126	157	160
November	195	161	163	155	165	113	129	124	172	162
December	192	161	161	155	160	114	129	122	169	165
1929—										
Average for year	189	161	161	155	161	112	188	120	145	151
January	191	161	161	155	159	113	135	122	147	151
February	189	161	161	155	158	113	135	120	142	153
March	189	161	161	155	159	113	135	118	122	153
April	195	160	161	155	160	113	139	116	106	148
May	201	160	161	162	161	112	169	116	112	142
June	205	160	161	149	162	112	182	116	120	141
July	211	161	161	152	164	112	229	116	128	139
August	211	161	161	158	166	113	235	120	140	141
September	207	161	161	161	164	112	229	122	154	143
October	200	162	159	158	162	112	224	122	168	145
November	198	162	159	158	159	112	224	122	154	140
December	195	162	159	155	157	110	224	120	152	138
1930—										
Average for year	185	157	155	142	157	109	212	113	119	129
January	196	160	159	155	157	110	229	120	161	132
February	194	158	157	155	158	110	229	118	137	123
March	193	157	157	152	158	109	229	116	102	122
April	193	157	157	149	157	110	241	115	100	125
May	193	157	157	146	157	109	253	115	95	121
June	192	157	157	146	157	109	247	111	97	113
July	184	157	157	139	157	109	194	111	102	114
August	177	157	155	136	156	109	182	111	113	120
September	178	157	155	133	158	110	188	107	125	127
October	176	157	154	130	158	109	182	106	130	125
November	171	157	152	127	156	107	171	107	140	119
December	169	152	152	124	153	106	171	107	121	110

BREAD—AVERAGE PRICES IN UNITED STATES

Department of Labor figures showing the average retail price per pound (baked weight) of bread in leading cities of the United States, on the 15th day of each month, in cents:

	Jan.	Feb.	Mch.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1913	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
1914	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3	6.4	6.4	6.4	6.5	6.3
1915	6.8	7.1	7.1	7.1	7.2	7.2	7.1	7.1	7.0	7.0	6.9	6.9	7.0
1916	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.7	8.1	8.4	7.8	7.3
1917	7.9	8.0	8.1	8.4	9.5	9.6	9.9	10.2	9.9	9.9	9.9	9.3	9.2
1918	9.4	9.5	9.6	9.8	9.9	10.0	10.0	9.9	9.9	9.8	9.8	9.8	9.8
1919	9.8	9.8	9.8	9.8	9.8	9.9	10.0	10.1	10.1	10.1	10.2	10.2	10.0
1920	10.9	11.1	11.2	11.2	11.5	11.8	11.9	11.9	11.9	11.8	11.6	10.8	11.6
1921	10.8	10.6	10.5	10.3	9.9	9.8	9.7	9.7	9.6	9.6	9.3	9.1	9.9
1922	8.8	8.6	8.7	8.7	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.6	8.7
1923	8.7	8.7	8.7	8.7	8.7	8.7	8.8	8.7	8.7	8.7	8.7	8.7	8.7
1924	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.8	8.8	8.8	8.9	8.9	8.8
1925	9.2	9.5	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
1926	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
1927	9.4	9.4	9.4	9.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
1928	9.2	9.2	9.1	9.1	9.1	9.2	9.2	9.2	9.1	9.1	9.1	9.0	9.1
1929	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9	9.0
1930	8.9	8.8	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.6	8.5	8.5	8.7

ENGLAND—DECENNIAL WHEAT PRICES

Average prices of wheat per quarter of 480 lbs. in each decade since 1650, as given by the Westminster Gazette:

Year—	Av. price	Year—	Av. price	Year—	Av. price	Year—	Av. price
1650	68s 1d	1730	32s 5d	1800	113s 10d	1870	46s 11d
1660	50s 2d	1740	45s 1d	1810	106s 5d	1880	44s 4d
1670	37s 0d	1750	28s 10d	1820	67s 10d	1890	28s 6d
1680	40s 0d	1760	32s 5d	1830	64s 3d	1900	28s 5d
1690	30s 9d	1770	43s 6d	1840	66s 4d	1910	30s 5d
1700	32s 6d	1780	35s 8d	1850	40s 4d	1920	54s 9d
1710	69s 4d	1790	54s 9d	1860	53s 3d	1930	48s 7d
1720	25s 10d						

Our Eleven-Year Record

A Roll Call of the Major Operations in Construction for the Milling and Grain Industry—Our Exclusive Field

**1920—GOERZ FLOUR MILLS CO., Newton, Kansas
Concrete Office**

1920—OKLAHOMA MILL CO., Kingfisher, Okla.
Concrete Mill Building

1920—A. J. ELEVATOR CO., St. Joseph, Mo.
Iron-clad Elevator at Sunny Slope, Mo

1920—SHAWNEE MILLING CO., Shawnee, Okla.
300,000-bu Concrete Elevator

1920—FARMERS UNION MERCANTILE CO., Norborne, Mo.—20,000-bu Tile Elevator

1920—MADILL GRAIN & ELEVATOR CO., Madill, Okla.—Steel Bins and Frame Elevator

1920—CLARK & KELLER SEED CO., Shawnee, Okla.—Brick Warehouse

1920-21—WESTERN STAR MILL CO., Salina, Kansas—Concrete Tempering Bins and Cleaning House

1921—EL RENO MILL & ELEVATOR CO., El Reno, Okla.—Concrete Office Building

1921—RIVERTON HIDE, WOOL & FUR CO., Riverton, Wyo.—Iron-clad Elevator

1921—RYAN GRAIN CO., McCracken, Kansas
Iron-clad Elevator at Hargrave, Kansas

1921—FARMERS' ELEVATOR CO., Rushville, Mo.
20,000-bu Concrete Elevator

1921—MAY GRAIN CO., Independence, Mo.
20,000-bu Concrete Elevator

1921-22—WALNUT CREEK MILLING CO., Great Bend, Kan.—250,000-bu Concrete Elevator

1922—ISMERT-HINCKE MILLING CO., Kansas City—Concrete Cereal Plant at Bonner Springs, Kansas.

**1922—YUKON MILL & GRAIN CO., Yukon, Okla.
Concrete and Brick Mill Building

****1922—PEARLSTONE MILL & ELEVATOR CO., Dallas, Texas
175,000-bu Concrete Elevator

**1922—PONCA CITY MILLING CO., Ponca City, Okla.—65,000-bu Concrete Elevator

1922—UNIVERSAL MILLING CO., Fort Worth, Texas—Concrete Feed Plant Building

1922-23—H. D. LEE FLOUR MILLS CO., Salina, Kansas
300,000-bu Elevator and Tempering Bins

1922-23—THE BLAIR MILLING CO., Atchison, Kansas—Concrete Mill and Elevator

***1923—RUSSELL MILLING CO., Russell, Kansas
Tempering Bins and Cleaner House

****1923—PEARLSTONE MILL & ELEVATOR CO., Dallas, Texas
Additional Storage, 110,000 bus

*********1923-24—RALSTON-PURINA CO., Kansas City, Mo.
Warehouse, Mill Buildings, Office, Elevator, etc.

***1923—RUSSELL MILLING CO., Russell, Kansas
30,000-bu Concrete Elevator at Balta, Kan.

**1923—WELLINGTON MILLING & ELEV. CO., Wellington, Kansas—Iron-clad Elevators at Milan and Argonia, Kansas

**1923—GOERZ FLOUR MILLS CO., Newton, Kansas
Concrete Warehouse

1923—SMITH BROS. GRAIN CO., Fort Worth, Texas—150,000-bu Concrete Tanks

1923-24—HARDEMAN-KING CO., Oklahoma City, Okla.—Feed Mill, Warehouse and Elevator

**1923-24—ABILENE FLOUR MILLS CO., Abilene, Kansas—65,000-bu Concrete Storage

**1924—E. G. RALL GRAIN CO., Fort Worth, Texas
200,000-bu Concrete Storage

*******1924—KIMBELL MILLING CO., Fort Worth, Texas
600,000-bu Concrete Elevator

*******1924—WASHBURN CROSBY CO., Minneapolis, Minn.—800,000-bu Concrete Storage at Kansas City

1924—LIBERTY MILLS, San Antonio, Texas
300,000-bu Concrete Elevator

**1924—W. J. LAWTHER MILLS, Dallas, Texas
Feed Mill and Elevator

*******1924—KIMBELL MILLING CO., Fort Worth, Texas
Warehouse

**1924-25—CHICKASHA MILLING CO., Chickasha, Okla.
125,000-bu Storage and Brick Warehouse

*******1924-25—KIMBELL MILLING CO., Fort Worth, Texas—250,000-bu Additional Storage

1924-25—EAGLE MILLING CO., Edmond, Okla.
100,000-bu Concrete Storage

***1924-25—EL RENO MILL & ELEVATOR CO., El Reno, Okla.—220,000-bu Additional Storage and Cleaner House

**1925—WM. KELLY MILLING CO., Hutchinson, Kansas—250,000-bu Storage Bins

**1925—ACME MILLING CO., Oklahoma City, Okla.
200,000-bu Storage Bins

1925—AMERICAN MAID FLOUR MILLS, Houston, Texas—500,000-bu Concrete Storage

*******1925—WASHBURN CROSBY CO. (Minneapolis), Kansas City
1,100,000-bu Elevator and Storage

*******1925—WASHBURN CROSBY CO. (Minneapolis), Kansas City—Warehouse

***1925—SECURITY ELEVATOR CO., Hutchinson, Kansas—200,000-bu Storage Bins

**1925—YUKON MILL & GRAIN CO., Banner, Okla.
20,000-bu Concrete Elevator

**1925—ABILENE FLOUR MILLS CO., Abilene, Kan.
70,000-bu Storage Bins

****1925—PEARLSTONE MILL & ELEVATOR CO., Dallas, Texas—300-bbl Corn Meal Mill

**1925—COLLINGWOOD GRAIN CO., Pretty Prairie, Kansas—80,000-bu Concrete Elevator

*******1925-26—WASHBURN CROSBY CO. (Minneapolis), Kansas City—Flour Mill, Feed Plant, Blending Plant and Warehouse

**1925-26—ENID TERMINAL ELEVATOR CO., Enid, Okla.—540,000-bu Concrete Terminal Elevator

**1926—SOUTHWEST TERMINAL ELEVATOR CO., Enid, Okla.—540,000-bu Reinforced Concrete Terminal Grain Elevator

*******1926—KIMBELL MILLING CO., Fort Worth, Texas
350,000-bu Concrete Storage Annex

*****1926—DEWEY PORTLAND CEMENT CO. (Kansas City), Davenport, Iowa—Reinforced Concrete Stock and Pack House

*****1926—INTERNATIONAL MILLING CO. (Minneapolis), Davenport, Iowa
425,000-bu Concrete Storage Annex

1926—RAMON GONZALEZ, Nuevo Laredo, Tamps, Mexico
200-bbl Reinforced Concrete Flour Mill

1926—RED STAR MILLING CO., Wichita, Kansas
1,300,000-bu Concrete Storage Annex

*****1926—INTERNATIONAL MILLING CO. (Minneapolis), Buffalo, N. Y.
1,600,000-bu Concrete Elevator

1927—NEW ERA MILLING CO., Arkansas City, Kansas—125,000 bus Additional Storage

*********1927—RALSTON-PURINA CO. (St. Louis, Mo.), Nashville, Tenn.
225,000-bu Concrete Work House

***1927—EL RENO MILL & ELEVATOR CO., El Reno, Okla.
268,000 bus Additional Concrete Storage

**1927—SOUTHWEST TERMINAL ELEVATOR CO., Enid, Okla.—500,000 bus Additional Storage

**1927—ENID TERMINAL ELEVATOR CO., Enid, Okla.—500,000 bus Additional Storage

**1927—COLLINGWOOD GRAIN CO., Collano, Kansas
100,000-bu Concrete Elevator

**1927—WILLIAM KELLY MILLING CO., Hutchinson, Kansas
250,000 bus Additional Storage

1927—ACME MILLING CO., Hopkinsville, Ky.
Warehouse and 1,000-bbl Mill Designed, Erected and Machinery Installed

**1927—ACME MILLING CO., Oklahoma City, Okla.
110,000 bus Additional Storage

1927—BARTON COUNTY FLOUR MILLS CO., Great Bend, Kansas
75,000-bu Concrete Elevator

1927—D. H. GRANDIN MILLING CO., Jamestown, N. Y.—75,000-bu Concrete Milling Elevator

1927—PARIS MILLING CO., Paris, Texas
200,000 bus Concrete Storage

*****1927—DEWEY PORTLAND CEMENT CO., Davenport, Iowa—Additional Storage for Cement

1927—J. C. WHALEY ELEVATOR, Lubbock, Texas
500,000-bu Concrete Elevator with Head House

1927—GREAT WEST MILL & ELEVATOR CO., Amarillo, Texas—560,000-bu Concrete Elevator and Head House

*******1927—WASHBURN CROSBY CO. (Minneapolis), Kansas City
Drier House and Plant Additions

****1927—PEARLSTONE MILL & ELEVATOR CO., Dallas, Texas
300,000 bus Additional Storage

*****1928—INTERNATIONAL MILLING CO. (Minneapolis), Buffalo, N. Y.
650,000 bus Additional Storage

*****1928—PILLSBURY FLOUR MILLS CO. (Minneapolis), Enid, Okla.—3,000-bbl Mill and 750,000-bu Concrete Elevator

*********1928—RALSTON-PURINA CO. (St. Louis), Minneapolis, Minn.—Concrete Head House and 70,000-bu Screenings Elevator

**1928—CHICKASHA MILLING CO., Chickasha, Okla.
300-bbl Corn Mill, 300,000-bu Elevator, Office and Warehouse

***1928—SECURITY ELEVATOR CO., Hutchinson, Kansas—350,000 bus Additional Storage

1928—WOLF MILLING CO., Ellinwood, Kansas
80,000 bus Additional Storage

***1928—WESTERN TERMINAL ELEVATOR CO., Hutchinson, Kansas
250,000-bu Concrete Elevator

***1928—RUSSELL MILLING CO., Russell, Kansas
150,000 bus Additional Storage

1928—WILLIS NORTON CO., Topeka, Kansas
500,000 bus Additional Storage

*****1928—PILLSBURY FLOUR MILLS CO. (Minneapolis), Enid, Okla.
750,000 bus Additional Storage

1928—TERMINAL GRAIN CORP., Sioux City, Iowa
500,000 bus Additional Storage

*********1928—RALSTON-PURINA CO. (St. Louis, Mo.), Kansas City, Mo.—Hay Warehouse

***1928—WESTERN TERMINAL ELEVATOR CO., Hutchinson, Kansas
300,000 bus Additional Storage

*****1928—DEWEY PORTLAND CEMENT CO., Davenport, Iowa—Cement Storage

1928—STAFFORD COUNTY FLOUR MILLS CO., Hudson, Kansas
75,000 bus Additional Storage

**1928—W. J. LAWTHER MILLS, Dallas, Texas
100,000 bus Additional Storage and Warehouse

1928—WALL-ROGALSKY MILLING CO., McPherson, Kansas—150,000 bus Additional Storage

********1928—KIMBELL MILLING CO., Fort Worth, Texas
525,000 bus Additional Storage

*********1928—RALSTON-PURINA CO. (St. Louis, Mo.), Denver, Colo.
Complete Feed Mill and Elevator

1928—INLAND MILLING CO., Des Moines, Iowa
128,000 bus Additional Storage

1928—ARCADY FARM MILLING CO., Kansas City, Mo.—28,000-bu Concrete Elevator

*******1929—GENERAL MILLS, INC., Red Star Unit, Wichita, Kansas
1,500,000-bu Concrete Elevator

*****1929—PILLSBURY FLOUR MILLS CO., Enid, Okla.
1,000,000 bus Additional Storage

1929—TEXHOMA ELEVATOR CO., Texhoma, Okla.
100,000-bu Concrete Elevator

1929—BURLINGTON ELEVATOR CO., Omaha, Neb.—600,000-bu Grain Elevator

*****1929—INTERNATIONAL MILLING CO. (Minneapolis), Buffalo, N. Y.
1,100,000 bus Additional Storage

**1929—E. G. RALL GRAIN CO., Fort Worth, Texas
200,000 bus Additional Storage

*******1929—GENERAL MILLS, INC., Oklahoma City Mill & Elevator Co. unit, Oklahoma City, Okla.—600,000-bu Elevator, Warehouse and Office

*****1929—PILLSBURY FLOUR MILLS CO. (Minneapolis), Springfield, Ill.
3,000-bbl Mill, Cereal Mill, Warehouse and 1,300,000-bu Elevator

*****1929—PILLSBURY FLOUR MILLS CO. (Minneapolis), Atchison, Kansas
100,000-bu Elevator and Drier

***1929—SECURITY ELEVATOR CO., Hutchinson, Kansas—650,000 bus Additional Storage

*****1929—DEWEY PORTLAND CEMENT CO., Davenport, Iowa—Additional Cement Storage

1929—ARNOLD MILLING CO., Sterling, Kansas
100,000-bu Concrete Elevator

1929—DODGE CITY TERMINAL ELEVATOR CO., Dodge City, Kansas
500,000-bu Concrete Elevator

1929—GALVESTON WHARF CO., Galveston, Texas
4,500,000-bu Concrete Elevator

*********1930—RALSTON-PURINA CO., Kansas City, Mo.
300,000 bus Additional Storage

*********1930—RALSTON-PURINA CO., Davenport, Iowa
400,000 bus Additional Storage

*********1930—RALSTON-PURINA CO., Buffalo, N. Y.
450,000 bus Additional Storage

*******1930—KIMBELL MILLING CO., Fort Worth, Texas
800,000 bus Additional Storage

1930—OKLAHOMA WHEAT POOL ELEVATOR CORP., Enid, Okla.
1,000,000-bu Concrete Elevator

1930—THEO. STIVERS MILLING CO., Rome, Ga.
600-bbl Concrete Flour Mill

**1930—PONCA CITY MILLING CO., Ponca City, Okla.—350,000 bus Additional Storage

***1930—WESTERN TERMINAL ELEVATOR CO., Hutchinson, Kansas
600,000 bus Additional Storage

1930—DIAMOND MILL & ELEVATOR CO., Sherman, Texas—400,000 bus Additional Storage

1930—DES MOINES ELEVATOR & GRAIN CO., Des Moines, Iowa
350,000 bus Additional Storage

*********1930—RALSTON-PURINA CO., St. Louis, Mo.
Concrete Feed Mill and Elevator

1930—GLOBE GRAIN & MILLING CO., Ogden, Utah—750,000 bus Additional Storage

1930—G. B. R. SMITH MILLING CO., Sherman, Texas—300,000 bus Additional Storage

*****1930—INTERNATIONAL MILLING CO. (Minneapolis), Buffalo, N. Y.
1,500,000 bus Additional Storage

********1930—KIMBELL MILLING CO., Fort Worth, Texas
500,000 bus Additional Storage

1930—BALLARD & BALLARD CO., Louisville, Ky.
750,000 bus Additional Storage

*****1930—DEWEY PORTLAND CEMENT CO. (Kansas City, Mo.), Dewey, Okla.—Rock Storage

Stars indicate number of contracts for this firm.

Inquire of any of these concerns about our work.

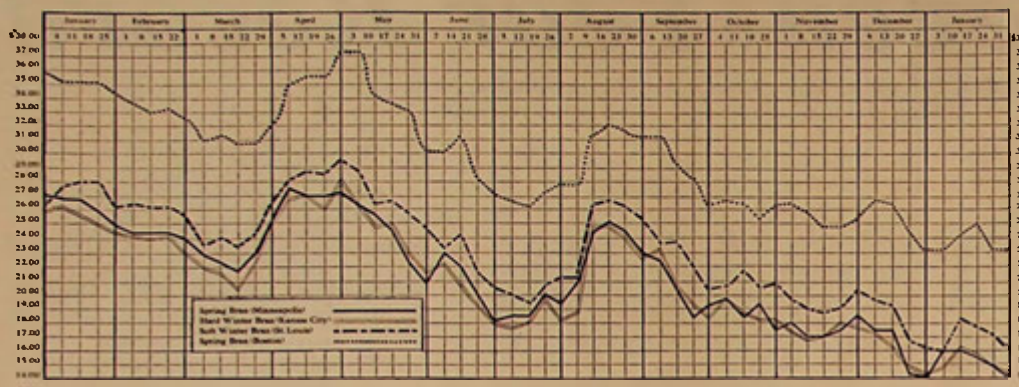
JONES-HETTELSATER CONSTRUCTION CO.

Designers and Builders for Milling Companies

MUTUAL BUILDING KANSAS CITY, MO.

RANGE OF BRAN PRICES IN THE UNITED STATES

Course of bran prices at Minneapolis, Kansas City, Boston and St. Louis, from January, 1930, to January, 1931, in dollars per ton:



Average Export Prices

Monthly average export prices of wheat flour, wheat and corn shipped from the United States, as reported by the Department of Commerce:

1930—	Flour, bbl	Wheat, bu	Corn, bu
December	$4.76	$ .75	$ .98
November	4.61	.72	.92
October	4.72	.81	.96
September	4.83	.90	.99
August	4.95	.96	1.08
July	5.33	.95	.89
June	4.87	.99	.91
May	5.42	1.09	.94
April	5.75	1.20	.93
March	5.88	1.23	.91
February	6.11	1.26	.94
January	6.02	1.27	.93
1929—			
December	$6.08	$1.27	$ .93
November	6.76	1.01	.96
October	6.22	1.30	1.00
September	6.21	1.30	1.05
August	6.17	1.28	1.06
July	5.62	1.20	1.02
June	5.63	1.08	.96
May	5.76	1.09	.96
April	5.95	1.17	1.00
March	5.44	1.19	1.02
February	5.74	1.10	1.02
January	5.84	1.22	1.00
1928—			
December	$5.80	$1.20	$ .95
November	6.04	1.15	.98
October	5.89	1.15	1.00
September	5.94	1.16	1.10
August	6.34	1.23	1.10
July	6.68	1.38	1.14
June	6.65	1.49	1.14
May	6.52	1.49	1.14
April	6.68	1.41	1.06
March	6.36	1.38	1.10
February	6.36	1.38	.98
January	6.40	1.34	.92
1927—			
December	6.62	1.31	.85
November	6.61	1.33	.86
October	6.52	1.37	.95
September	6.68	1.41	1.05
August	6.81	1.44	1.13
July	6.98	1.42	1.00
June	6.74	1.65	1.00
May	6.51	1.61	.87
April	6.60	1.46	.78
March	6.57	1.46	.79
February	6.70	1.46	.78
January	6.86	1.45	.76
1926—			
December	6.90	1.44	.77
November	6.81	1.44	.74
October	6.80	1.46	.85
September	6.58	1.42	.95
August	6.62	1.45	.95
July	7.09	1.49	.88
June	7.28	1.47	.89
May	7.19	1.48	.84
April	7.28	1.57	.83
March	7.47	1.60	.84
February	7.63	1.68	.92
January	7.39	1.65	.91

Yearly average export values of wheat flour, wheat and corn, by calendar years:

	Flour, bbl	Wheat, bu	Corn, bu
1930	$5.21	$1.00	$ .94
1929	5.90	1.24	1.01
1928	6.18	1.29	1.02
1927	6.65	1.42	.85
1926	7.02	1.46	.86
1925	7.65	1.72	1.12
1924	5.70	1.43	.97
1923	5.40	1.18	.87
1922	5.68	1.25	.70
1921	7.00	1.54	.72
1920	11.30	2.73	1.48

Yearly average export values of wheat flour, wheat and corn, by fiscal years ended June 30:

	Flour, bbl	Wheat, bu	Corn, bu
1930	$5.88	$1.24	$ .90
1929	5.91	1.17	1.00
1928	6.49	1.40	1.03
1927	6.77	1.46	.82
1926	7.30	1.55	.92
1925	7.04	1.57	1.16
1924	5.11	1.11	.92
1923	5.64	1.24	.86
1922	6.16	1.34	.66
1921	9.55	2.35	.89
1920	11.11	2.50	1.65
1919	11.08	2.37	1.60
1918	11.19	2.36	1.83
1917	7.80	1.98	1.12
1916	5.69	1.24	.80
1915	5.86	1.28	.80
1914	4.60	.95	.74
1913	4.66	.97	.68
1912	4.63	.94	.72
1911	4.87	.92	.66

Feedstuffs Prices—1930

Average prices of feedstuffs at important markets by months during 1930, car lots, sacked, in dollars per ton, as reported by the Department of Agriculture:

	Linseed meal (34% protein)		
	Minneapolis	Buffalo	Chicago
January	54.10	53.75	53.80
February	51.75	49.10	51.50
March	50.30	46.70	49.55
April	54.75	49.10	53.95
May	48.70	46.10	48.90
June	44.75	43.90	44.90
July	42.75	42.75	41.90
August	42.20	44.60	44.65
September	42.10	42.25	43.90
October	40.25	37.80	41.40
November	38.90	36.50	38.40
December	37.90	35.90	38.00

	41% cottonseed meal	Gluten meal	
	Memphis	Chicago	Boston
January	38.45	50.00	51.15
February	33.50	46.10	48.20
March	33.60	40.75	47.05
April	36.75	41.15	47.85
May	38.05	41.15	48.05
June	35.50	41.15	48.05
July	33.60	39.40	46.65
August	36.25	40.75	47.05
September	30.90	41.10	47.35
October	27.50	35.75	42.05
November	27.60	33.60	40.80
December	25.60	35.00	41.50

	Alfalfa meal (No. 1 medium)		Hominy feed (white)
	Chicago	Kansas City	Omaha
January	26.50	27.40	30.50
February	26.50	26.50	27.25
March	31.20	23.60	25.75
April	28.10	25.05	28.75
May	26.30	23.80	25.90
June	25.10	22.00	24.40
July	25.00	22.70	25.50
August	26.65	24.70	33.20
September	29.10	26.60	29.60
October	28.00	25.60	25.50
November	27.60	25.00	24.00
December	25.75	24.20	24.10

New Orleans—Grain Exports

Exports of grain from New Orleans, by calendar years, in bushels (000's omitted):

	Wheat	Barley	Corn	Oats	Rye
1930	9,703	68	156	286	5
1929	6,286	925	8,466	761	91
1928	6,332	2,915	6,448	680	971
1927	9,852	...	3,292	1,187	983
1926	6,023	...	6,045	823	294
1925	15,094	...	5,108	1,105	94
1924	21,286	...	5,527	531	137
1923	11,539	...	9,545	496	1,387
1922	27,418	122	28,222	595	1,637
1921	24,962	1,067	13,923	544	1,126
1920	48,696	5,949	1,143	907	178
1919	12,786	6,927	1,233	6,891	...
1918	9,402	7,716	9,115	17,463	262
1917	25,271	1,979	4,943	3,450	60
1916	19,493	153	6,128	441	...
1915	48,872	9	2,512	2,462	...

Destination of wheat exports, in bushels (000's omitted):

	1930	1929	1928	1927
Belgium	1,308	769	682	1,936
France	2,299	368	874	1,777
Germany	694	798	52	1,760
Gibraltar	...	...	500	...
Italy	374	43	707	1,520
Netherlands	901	980	1,175	1,177
Spain	...	80	648	...
Portugal	734	...	...	...
United Kingdom	2,449	1,340	736	736
Greece	...	...	431	461
Central America and Mexico	662	1,000	526	446
Other countries	174	895	...	40
Totals	9,618	6,273	6,331	9,852

Canada—Inspection Charges

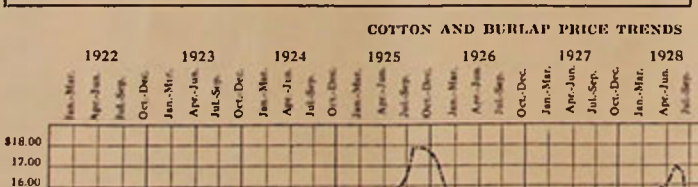
Fees chargeable for the inspection of staple articles under the general inspection and grain inspection acts of Canada:

Inspection of grain: per car, $1; in cargoes, $1 per 1,000 bus.

Weighing of grain: per car, $1; in cargoes, $1 per 1,000 bus.

Inspection of hay: per car, $1.

Comparative Digestible Nutrients in White Flour and Bran Flour Based on United States Department of Agriculture tests:



England—Average Wheat Prices

Average yearly prices for wheat in England, per quarter of 480 lbs and per bushel of 60 lbs:

	Per qr		Per bu
	£	s	d	
1930	1	14	1	$1.03
1929	2	2	6	1.87½
1928	2	3	2	1.89½
1927	2	9	4	1.48
1926	2	13	3	1.60
1925	2	12	4	1.57
1924	2	9	5	1.45¾
1923	2	2	4	1.27
1922	2	7	9	1.43½
1921	3	11	11	2.15¾
1920	4	0	9	2.42¼
1919	3	12	11	2.18¾
1918	3	12	9	2.18¼
1917	3	16	8	2.30
1916	2	18	3	1.74½
1915	2	13	0	1.59
1914	1	15	1	1.05¼
1913	1	11	8	.96
1912	1	14	9	1.03½
1911	1	11	9	.95¼
1910	1	11	8	.95
1909	1	16	11	1.10¾
1908	1	12	2	.96½
1907	1	10	7	.90½
1906	1	8	4	.85
1905	1	9	9	.89¼
1904	1	8	4	.86
1903	1	6	9	.80½
1902	1	8	1	.84½
1901	1	6	10	.80½
1900	1	6	11	.80¾
1899	1	5	9	.76¾
1898	1	5	2	.71¼
1897	1	10	3	.90¾
1896	1	5	3	.78¾
1895	1	3	1	.69¾
1894	1	2	11	.68¾
1893	1	6	4	.79
1892	1	10	4	.91
1891	1	17	2	1.11¾
1890	1	11	9	.95¾
1889	1	9	9	.89¾
1888	1	11	10	.94¾
1887	1	11	6	.91¾
1886	1	11	8	.94¾
1885	1	12	10	.99¾
1884	1	15	9	1.08¾
1883	2	1	7	1.20¾
1882	2	5	1	1.31¾
1881	2	5	4	1.32¾
1880	2	4	4	1.30¾
1879	2	3	10	1.28¾
1878	2	6	5	1.41
1877	2	16	9	1.72¾
1876	2	6	2	1.40¾
1875	2	5	2	1.37¾
1874	2	15	8	1.69¾
1873	2	18	8	1.77¾
1872	2	17	6	1.72¾
1871	2	16	8	1.72¾
1870	2	6	10	1.42¾

Mill Storage Capacity

Mills reporting to the Department of Commerce on Jan. 1, 1930, owned storage facilities as shown in the following table. Returns were received from 1,057 mills, which made 93.9 per cent of the flour reported in the 1927 census of manufactures.

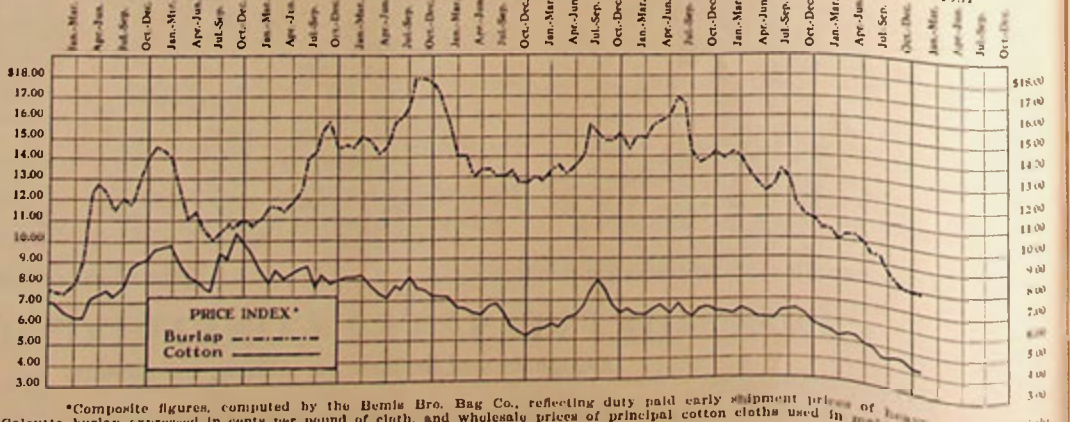
	No. mills	Elevators: Total capacity	Mill and private terminal	Country	Other facilities*
Minnesota	65	27,074	25,605	1,587	682
Kansas	108	38,818	32,218	5,457	1,143
New York	11	15,739	14,662	34	1,043
Missouri	72	19,185	17,149	1,023	1,013
Washington	25	17,884	6,737	9,109	2,038
Texas	37	13,066	12,529	1,077	370
Illinois	48	10,776	9,913	543	320
Oklahoma	28	11,727	10,420	954	353
Ohio	68	6,643	6,133	230	280
Oregon	23	5,118	2,474	429	2,215
Nebraska	41	4,398	3,500	683	215
Indiana	51	6,628	5,571	279	778
California	12	3,828	2,434	365	1,029
Iowa	14	2,526	2,089	40	97
Montana	16	7,892	4,702	3,094	96
Colorado	21	4,210	2,928	1,184	98
Michigan	39	2,368	1,727	228	413
Tennessee	34	2,776	2,353	50	373
Utah	21	5,389	4,178	972	239
Kentucky	35	3,882	3,007	25	850
Pennsylvania	70	2,117	1,496	60	561
N. Dakota	17	2,170	1,970	135	64
Wisconsin	9	1,798	1,695	85	18
N. Carolina	32	979	832	5	142
Virginia	46	1,463	1,326	14	123
Idaho	21	4,295	2,152	1,776	367
Maryland	19	667	519	27	121
S. Dakota	9	641	426	194	21
All other†	33	‡2,729	1,636	78	1,015
U. S.	1,057	228,876	182,981	30,145	15,750

*Includes capacity of mill buildings and warehouses, 14,735,000 bus; tanks and bins (principally metal), 439,000 bus; other facilities (not specified), 276,000 bus.

†Includes Arizona, 5 mills; Arkansas, 5; Delaware, 1; District of Columbia, 1; Georgia, 1; New Hampshire, 1; New Jersey, 2; New Mexico, 2; South Carolina, 2; West Virginia, 6; Wyoming, 5.

‡Includes Arizona, 1,065,000 bus; Arkansas, 102,000; Georgia, 507,000; West Virginia, 336,000; Wyoming, 341,000; Delaware, District of Columbia, New Hampshire, New Jersey, New Mexico and South Carolina, 378,000.

COTTON AND BURLAP PRICE TRENDS



*Composite figures, computed by the Bemis Bro. Bag Co., reflecting duty paid early shipment prices of heavy and lightweight Calcutta burlap expressed in cents per pound of cloth, and wholesale prices of principal cotton cloths used in making bags.

DULUTH IMPERIAL

A Spring Wheat Patent Without a Rival

and

HOURGLASS

A Semolina noted for its sharpness, uniformity and color: often imitated but never duplicated.

Our favorable location insures quick delivery at all eastern markets, or at seaboard for export.

DULUTH-SUPERIOR MILLING CO.

DULUTH, MINNESOTA

American Cereals—Average Composition

Table prepared for The Northwestern Miller by Charles H. Briggs, of the Howard Wheat and Flour Testing Laboratory, Minneapolis:

	Moisture	Ash	Pro-tein	Fat	Crude fiber	Starch, sugar, etc.
Wheat	10.6	1.8	12.2	1.7	2.4	71.3
Rye	10.6	1.9	12.2	1.5	2.1	71.8
Barley	10.9	2.6	11.0	2.3	3.8	69.6
Corn	10.8	1.5	10.0	4.3	1.7	71.7
Oats	11.0	3.0	11.8	5.0	9.5	59.7
Rice	12.0	1.0	8.0	2.0	1.0	76.0
Buckwheat	12.6	2.0	10.0	2.2	8.7	64.5

Chicago—Corn Prices

Lowest and highest prices for contract corn in Chicago, and the months in which extreme prices were reached:

	Lowest	Range	Highest
1930	December	64¼@105½	August
1929	June	80½@108¾	July
1928	December	83 @115½	May
1927	March	67 @116	August
1926	June, Nov.	68 @ 87½	July
1925	November	75 @134½	January
1924	January	71½@135½	December
1923	January	69½@114	October
1922	January	46 @ 77½	December
1921	October	42 @ 78	January
1920	November	67 @217	May
1919	Jan., Feb.	122 @210	July, Aug.
1918	November	130 @185	January
1917	January	93¼ @236	August
1916	March	69 @111	October
1915	October	69¾@82¼	August
1914	January	80 @86	August
1913	January	46½@78¼	Aug., Sept.
1912	December	47½@83	August
1911	Jan., Feb.	45½@76	November
1910	December	45½@68	January
1909	January	58¾@77	June
1908	February	56½@82	May, Sept.
1907	January	30¾@66½	October
1906	Feb., March	39 @54¾	June
1905	Jan., Dec.	42 @64½	May
1904	January	42⅝@58⅛	November
1903	December	41 @63	July, Aug.
1902	December	43¾ @88	July
1901	January	36 @67½	November
1900	January	30½@49½	December
1899	December	30 @38⅛	January
1898	January	26 @38	December
1897	Jan., Feb.	21¾@32½	August
1896	September	19½@30⅝	April
1895	December	25 @55½	May
1894	Jan., Feb.	34 @59½	August
1893	December	34¼@44¾	January
1892	March	36½@$1	May
1891	December	39⅜@75½	April
1890	February	27½@53⅞	November
1889	December	29¼@61	November
1888	December	33½@60	May
1887	February	33 @61⅛	December
1886	October	33⅛@45	July
1885	January	34¼@49	April, May
1884	December	34½@87	September
1883	October	46 @70	January
1882	December	49¼@81½	July
1881	February	35⅝@76⅝	October

COARSE GRAIN PRICES DEC. 1 BY STATES

Department of Agriculture estimates of the average farm prices of corn, oats, rye, barley and flaxseed by states on Dec. 1, 1929 and 1930, in cents per bushel:

	Corn		Oats		Rye		Barley		Flaxseed	
	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930
Maine	120	100	70	52	..	..	100	81	..	..
New Hampshire	110	105	70	54	..	..	..	..	..	..
Vermont	105	100	65	53	..	..	90	85	..	..
Massachusetts	135	100	70	52	..	..	..	..	..	..
Rhode Island	140	110	75	55	..	..	..	..	..	..
Connecticut	110	105	70	55	..	..	..	..	..	..
New York	103	90	55	44	114	74	84	62	..	..
New Jersey	101	95	57	48	103	70	85	65	..	..
Pennsylvania	100	95	57	48	106	70	90	70	..	..
Delaware	88	91	57	50	115	90	..	..	..	..
Maryland	88	92	59	47	110	87	82	75	..	..
Virginia	100	105	67	60	120	115	96	87	..	..
West Virginia	106	109	64	59	116	96	..	..	..	..
North Carolina	100	93	75	68	140	123	128	106	..	150
South Carolina	99	90	80	74	190	168	..	..	..	..
Georgia	85	86	80	74	189	161	..	..	..	..
Florida	85	90	89	79	..	..	..	..	..	..
Ohio	78	67	45	35	98	67	61	50	..	..
Indiana	74	61	40	30	90	55	68	50	..	..
Illinois	72	62	40	29	89	53	56	48	..	..
Michigan	89	77	48	34	86	65	69	65	..	..
Wisconsin	83	72	44	33	89	65	64	54	270	180
Minnesota	65	53	37	25	82	31	48	35	247	145
Iowa	70	58	39	28	85	38	52	41	275	155
Missouri	86	75	47	39	107	77	89	69	265	150
North Dakota	68	53	38	20	76	34	48	26	247	129
South Dakota	62	47	34	21	76	28	45	29	266	133
Nebraska	69	51	38	28	76	38	50	36	260	125
Kansas	74	59	46	35	85	58	59	37	234	156
Kentucky	91	92	59	53	122	96	99	83	..	..
Tennessee	92	93	62	53	133	109	102	93	..	..
Alabama	98	96	76	64	..	..	..	..	..	..
Mississippi	93	93	76	68	..	..	..	..	..	..
Louisiana	90	93	70	55	..	..	..	..	..	..
Texas	85	73	51	42	82	66	62	55	..	..
Oklahoma	79	65	48	38	90	66	63	51	..	..
Arkansas	98	96	62	52	135	114	..	..	..	..
Montana	84	66	51	31	72	25	58	41	249	131
Wyoming	85	67	51	36	68	33	64	44	275	129
Colorado	75	62	48	26	71	27	54	40	..	..
New Mexico	89	77	60	35	82	45	61	42	..	..
Arizona	130	115	80	65	..	..	85	65	..	..
Utah	100	100	60	41	91	60	78	52	..	..
Nevada	120	115	70	52	..	..	85	60	..	..
Idaho	94	70	46	32	85	50	66	41	..	..
Washington	103	86	59	36	93	60	73	47	..	..
Oregon	98	83	56	35	115	60	77	50	..	..
California	112	87	61	43	..	..	70	46	..	..
United States	78.1	66.3	43.5	32.4	86.6	41.6	65.0	49.8	254.2	139.8

PRE-WAR WHEAT CONSUMPTION

United States Department of Agriculture estimates of average wheat consumption in 1909-13, in bushels:

Country—	Total	Per capita	Country—	Total	Per capita
United States	521,813,000	5.64	France	360,927,000	9.12
United Kingdom	277,535,000	6.14	Germany	229,459,000	3.95
Netherlands	26,952,000	4.67	Italy	238,479,000	6.82
Belgium	63,973,000	8.53	India	301,147,000	1.23
Austria-Hungary	228,116,000	4.41	Japan	29,339,000	.57

London Grain Option Market

The following grades of wheat are deliverable on the London wheat option contract: No. 3 northern Manitoba (Dominion inspection); No. 2 hard winter (federal inspection); 62½ lbs Bahia Blanca, Barletta and/or Russo f.a.q.; 63½ lbs Barletta and/or Russo, Buenos Aires or La Plata f.a.q.; 62½ lbs Rosafe f.a.q.; Karachi choice white f.a.q.

The following grades are deliverable at a premium: No. 1 northern Manitoba, 2s premium; No. 2 northern Manitoba, 1s premium; Australian (official standard), 1s premium.

Chicago—Oats Prices

Lowest and highest prices for contract oats in Chicago, and the months in which extreme prices were reached:

	Lowest	Range	Highest
1930	December	25⅜@ 46	Jan., May
1929	August	41 @67½	January
1928	August	36⅛@78	June
1927	August	43½@59	December
1926	August	36⅜@55	December
1925	September	37¼@62	January
1924	January	44⅛@63½	December
1923	August	37 @48⅝	December
1922	August	31 @48	December
1921	Aug., Nov.	32 @48½	January
1920	Jan., Nov.	46⅝@129	June
1919	January	54 @99	December
1918	October	66⅝@93	February
1917	August	51 @115	July
1916	June	37⅝@67	November
1915	October	35⅞@69⅛	March
1914	August	33⅛@51⅛	September
1913	March	31⅝@43⅞	September
1912	November	30¼@58½	April
1911	March	28⅞@47⅝	November
1910	October	29⅝@49	February
1909	August	36½@62½	May
1908	August	46 @60½	July
1907	January	33½@56½	September
1906	March	24⅝@42⅝	June
1905	September	25 @34¼	July
1904	Oct., Dec.	30¼@46	February
1903	March	31⅛@45	July
1902	August	35 @56	May
1901	January	29¼@48⅝	December
1900	August	21 @25¾	February
1899	August	19¼@28⅛	July
1898	August	28¼@32	December
1897	February	15⅝@23⅞	June
1896	September	14⅝@20½	February
1895	December	16⅞@31½	June
1894	January	27 @29	June
1893	August	22 @52	Jan. Feb. May
1892	March	27 @35½	June
1891	October	26½@37⅝	April
1890	February	19⅛@45	November
1889	October	17⅝@26⅝	February
1888	September	23⅛@37¼	May
1887	March, April	23½@32½	December
1886	October	22⅝@35	January
1885	September	24¼@36½	April
1884	December	23 @34½	April
1883	September	25 @43⅝	March
1882	September	36⅝@62	July

PRINCIPAL AGRICULTURAL CROPS OF THE UNITED STATES

A Section Devoted to Information Regarding the Acreage, Yield and Value of the Chief Field Crops of the United States, Statistics Being Given Both for the Country as a Whole and by States

UNITED STATES—COMBINED WHEAT CROP AND ACREAGE

Department of Agriculture estimates of the United States wheat acreage, yield per acre, and total production, winter and spring wheat being estimated together, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Maine	[illegible]	[illegible]	3	20.0	23.0	22.0	80	[illegible]	[illegible]
Vermont	1	1	1	16.0	18.0	20.0	16	[illegible]	[illegible]
New York	316	251	263	14.9	16.0	18.3	4,702	4,488	4,800
New Jersey	60	55	52	20.0	19.0	23.5	1,200	[illegible]	1,222
Pennsylvania	[illegible]	1,119	1,122	15.5	18.0	22.5	[illegible]	[illegible]	25,230
Delaware	[illegible]	107	106	18.0	19.0	19.5	[illegible]	[illegible]	2,067
Maryland	[illegible]	536	609	16.5	17.5	23.0	8,745	[illegible]	[illegible]
Virginia	673	700	644	14.5	[illegible]	15.5	9,758	8,960	9,982
West Virginia	122	134	134	13.0	13.3	17.5	1,586	1,782	[illegible]
North Carolina	[illegible]	457	343	11.6	11.7	12.5	[illegible]	5,347	[illegible]
South Carolina	64	64	42	12.5	12.0	12.8	800	[illegible]	[illegible]
Georgia	94	85	49	11.0	10.0	12.0	[illegible]	850	[illegible]
Ohio	872	1,646	[illegible]	10.9	19.5	17.8	[illegible]	32,093	[illegible]
Indiana	[illegible]	1,631	1,615	11.0	17.0	18.0	10,040	27,723	29,058
Illinois	[illegible]	2,451	2,296	14.7	14.9	18.3	22,939	36,537	[illegible]
Michigan	[illegible]	904	824	16.0	18.6	28.5	14,202	16,810	19,336
Wisconsin	[illegible]	105	109	20.0	20.9	[illegible]	2,141	2,190	2,331
Minnesota	1,532	1,372	1,301	15.0	14.4	16.5	22,964	[illegible]	21,526
Iowa	452	416	405	19.3	19.4	22.1	8,723	8,076	8,937
Missouri	1,511	1,730	1,420	12.7	[illegible]	14.0	19,194	[illegible]	[illegible]
North Dakota	10,810	10,197	9,336	14.4	9.5	10.7	156,358	97,262	99,807
South Dakota	3,360	3,211	[illegible]	10.4	[illegible]	11.9	[illegible]	31,200	[illegible]
Nebraska	3,672	3,548	[illegible]	19.0	15.9	19.2	69,919	66,555	[illegible]
Kansas	10,473	11,516	[illegible]	17.0	12.0	13.5	[illegible]	138,060	158,862
Kentucky	[illegible]	240	238	8.0	11.8	[illegible]	1,000	2,832	[illegible]
Tennessee	422	405	308	[illegible]	[illegible]	[illegible]	3,714	3,645	[illegible]
Alabama	[illegible]	[illegible]	[illegible]	11.0	10.0	10.0	[illegible]	[illegible]	40
Mississippi	3	[illegible]	[illegible]	20.0	17.0	17.0	60	68	68
Texas	2,016	2,520	2,570	11.0	15.0	11.0	22,176	37,800	28,270
Oklahoma	[illegible]	4,236	[illegible]	13.5	10.5	9.5	69,570	44,478	33,696
Arkansas	[illegible]	[illegible]	[illegible]	11.5	12.0	13.0	[illegible]	[illegible]	351
Montana	[illegible]	[illegible]	3,913	18.2	9.6	8.6	77,998	40,688	33,698
Wyoming	[illegible]	256	247	16.0	13.3	14.0	[illegible]	3,409	3,665
Colorado	[illegible]	1,397	1,459	13.9	12.9	14.9	[illegible]	18,012	[illegible]
New Mexico	[illegible]	305	206	11.0	18.8	9.3	[illegible]	5,742	[illegible]
Arizona	[illegible]	42	46	27.0	27.0	28.0	[illegible]	1,134	[illegible]
Utah	257	266	268	26.7	24.1	26.1	6,861	6,403	6,999
Nevada	[illegible]	16	15	26.8	25.2	25.7	[illegible]	404	386
Idaho	1,160	1,083	1,027	24.8	23.6	27.5	28,792	25,515	28,223
Washington	2,271	2,430	2,445	21.4	18.5	16.4	[illegible]	44,910	[illegible]
Oregon	1,027	1,058	1,017	22.7	21.8	23.0	[illegible]	23,114	23,391
California	780	650	620	21.0	18.0	21.0	16,380	12,240	13,020
United States	58,272	61,464	59,153	15.7	13.2	14.4	914,876	809,176	850,966

UNITED STATES—WINTER AND SPRING WHEAT CROP AND ACREAGE

Department of Agriculture estimates of the United States wheat acreage, yield per acre, and total production, with winter and spring wheat estimated separately, by states and calendar years:

WINTER WHEAT

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
New York	306	272	253	14.8	16.0	18.3	4,529	4,352	4,630
New Jersey	60	55	52	20.0	19.0	23.5	1,200	1,045	1,222
Pennsylvania	1,101	1,112	1,116	15.5	18.0	22.5	17,066	20,016	25,110
Delaware	102	107	106	18.0	18.0	19.5	1,836	2,033	2,067
Maryland	530	536	509	16.5	17.5	23.0	8,745	9,380	[illegible]
Virginia	673	700	644	14.5	12.8	[illegible]	9,758	8,960	[illegible]
West Virginia	122	134	134	13.0	13.3	17.5	1,586	1,782	2,345
North Carolina	444	457	343	11.6	11.7	12.5	5,150	5,347	4,288
South Carolina	64	64	42	12.5	12.0	12.8	800	[illegible]	538
Georgia	94	85	49	11.0	10.0	12.0	1,034	850	588
Ohio	864	1,642	1,609	10.8	19.5	17.8	9,331	[illegible]	28,640
Indiana	[illegible]	1,627	1,611	11.0	17.0	18.0	9,900	[illegible]	28,998
Illinois	[illegible]	2,270	2,088	14.0	14.7	18.0	17,664	33,369	37,584
Michigan	[illegible]	900	819	16.0	18.6	23.6	14,112	16,740	19,246
Wisconsin	42	39	42	18.5	24.0	22.0	777	936	924
Minnesota	165	150	151	16.0	21.0	20.0	2,640	3,150	3,020
Iowa	411	379	370	19.5	19.7	22.5	8,014	7,466	8,325
Missouri	1,496	1,720	1,410	12.7	10.0	14.0	18,999	17,200	19,740
South Dakota	105	94	120	13.0	14.0	16.8	1,260	1,316	2,016
Nebraska	3,492	3,354	3,022	19.1	16.0	19.4	66,697	[illegible]	70,267
Kansas	10,433	11,476	11,735	17.0	12.0	13.5	177,361	[illegible]	158,122
Kentucky	125	240	238	8.0	11.8	13.8	1,000	2,832	3,284
Tennessee	422	405	308	8.8	9.0	11.5	3,714	3,645	3,542
Alabama	4	[illegible]	[illegible]	11.0	10.0	10.0	[illegible]	40	40
Mississippi	3	[illegible]	[illegible]	20.0	17.0	17.0	60	[illegible]	68
Texas	2,016	2,520	2,570	11.0	15.0	11.0	22,176	37,800	28,270
Oklahoma	4,413	4,236	3,547	13.5	10.5	[illegible]	59,576	44,478	33,696
Arkansas	22	26	27	11.5	12.0	13.0	253	312	351
Montana	[illegible]	532	585	15.0	14.0	9.3	12,015	7,448	5,440
Wyoming	[illegible]	95	107	15.0	13.0	15.0	1,126	1,235	1,605
Colorado	[illegible]	1,043	1,147	12.0	11.5	14.5	11,076	11,944	16,632
New Mexico	[illegible]	263	166	10.0	18.0	[illegible]	1,500	4,734	1,361
Arizona	[illegible]	42	46	27.0	27.0	[illegible]	1,269	1,134	1,288
Utah	162	166	166	23.0	20.5	22.5	3,726	3,403	3,735
Nevada	[illegible]	4	[illegible]	26.0	26.0	24.0	104	104	48
Idaho	456	520	520	23.0	22.0	[illegible]	10,488	[illegible]	13,520
Washington	1,424	1,210	920	25.0	23.0	22.0	35,600	27,830	20,240
Oregon	[illegible]	896	806	24.0	22.0	23.0	20,088	19,712	18,538
California	[illegible]	680	620	21.0	18.0	21.0	16,380	12,240	13,020
United States	36,213	40,059	38,608	16.0	14.4	15.7	578,673	576,213	604,337

SPRING WHEAT

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Maine	[illegible]	[illegible]	3	20.0	23.0	22.0	80	92	66
Vermont	1	[illegible]	[illegible]	16.0	18.0	20.0	16	18	20
New York	10	9	10	17.3	15.1	17.0	173	136	170
Ohio	8	4	[illegible]	18.0	18.5	19.0	144	74	76
Pennsylvania	7	[illegible]	6	15.0	17.5	21.0	105	122	126
Indiana	10	[illegible]	[illegible]	14.0	16.0	15.0	140	64	60
Illinois	302	181	208	17.5	17.5	21.0	5,285	3,168	4,368
Michigan	[illegible]	4	5	18.0	17.5	18.0	90	70	90
Wisconsin	62	66	67	22.0	19.0	21.0	1,364	1,254	1,407
Minnesota	1,367	[illegible]	1,150	14.8	13.6	16.1	20,324	16,573	18,505
Iowa	[illegible]	37	35	17.3	16.5	17.5	709	610	[illegible]
Missouri	15	10	10	13.0	10.0	14.0	195	100	140
North Dakota	10,810	10,197	9,336	14.4	9.5	10.6	155,358	97,262	99,807
South Dakota	3,255	3,137	3,300	10.0	9.5	11.6	33,668	29,884	38,524
Nebraska	180	194	188	17.9	14.9	16.0	3,222	2,891	3,008
Kansas	40	40	40	11.8	8.7	11.0	472	348	440
Montana	3,472	3,694	3,328	18.9	9.0	8.5	65,953	33,240	28,258
Wyoming	168	161	140	16.5	13.5	14.0	[illegible]	2,174	1,960
Colorado	416	354	312	18.0	17.0	16.5	7,488	6,018	5,148
New Mexico	36	42	40	16.4	24.0	14.0	554	1,008	560
Utah	95	100	102	33.0	30.0	32.0	3,135	3,000	3,264
Nevada	[illegible]	[illegible]	13	27.0	25.0	[illegible]	378	300	338
Idaho	704	563	507	26.0	25.0	[illegible]	18,301	14,075	14,703
Washington	847	1,220	1,525	15.4	14.0	13.0	13,044	17,080	19,825
Oregon	190	162	211	17.0	21.0	23.0	3,230	3,402	4,853
United States	22,059	21,405	20,545	15.2	10.8	12.0	336,203	232,963	246,628

UNITED STATES—RYE CROP AND ACREAGE

Department of Agriculture estimates of the United States rye acreage, yield per acre, and total production, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
New York	20	20	[illegible]	15.7	15.5	17.3	314	310	415
New Jersey	41	36	31	18.5	19.0	20.0	768	684	620
Pennsylvania	103	124	124	15.5	16.0	17.0	1,596	1,984	2,108
Delaware	3	[illegible]	4	15.0	14.5	14.0	45	58	56
Maryland	15	18	18	15.0	16.5	18.5	225	297	333
Virginia	46	53	50	13.5	11.8	13.0	621	625	650
West Virginia	7	[illegible]	8	13.5	11.6	13.4	94	93	107
North Carolina	89	[illegible]	89	11.5	12.0	12.0	1,024	1,176	1,068
South Carolina	7	7	[illegible]	11.5	12.5	11.6	80	88	81
Georgia	22	18	15	10.0	9.5	10.0	220	171	150
Ohio	[illegible]	[illegible]	36	13.3	15.6	15.0	399	656	540
Indiana	86	125	106	11.0	13.0	13.0	946	1,625	1,378
Illinois	62	73	79	14.5	14.5	15.5	899	1,058	1,224
Michigan	182	166	[illegible]	13.0	13.5	15.0	2,366	2,241	2,565
Wisconsin	167	185	191	13.0	16.0	15.5	2,171	2,960	2,960
Minnesota	421	396	416	15.0	17.5	17.3	6,315	6,930	7,197
Iowa	49	[illegible]	35	15.5	16.0	18.0	760	704	630
Missouri	19	20	20	12.0	10.0	12.5	228	200	250
North Dakota	1,298	1,038	1,194	11.0	9.5	11.0	14,278	9,861	13,134
South Dakota	[illegible]	[illegible]	400	9.0	11.0	14.5	1,458	2,442	5,800
Nebraska	249	262	333	14.0	[illegible]	15.0	3,486	3,694	4,995
Kansas	27	19	[illegible]	16.2	12.5	12.0	437	238	288
Kentucky	[illegible]	15	16	12.4	11.0	11.5	87	165	184
Tennessee	25	32	27	8.2	8.0	10.0	205	256	270
Texas	15	16	9	12.0	15.0	12.5	180	240	112
Oklahoma	26	28	25	12.0	11.0	10.5	312	308	262
Arkansas	[illegible]	[illegible]	[illegible]	9.0	9.0	10.0	[illegible]	[illegible]	10
Montana	154	111	113	14.0	11.0	10.0	2,156	1,221	1,130
Wyoming	40	40	38	10.0	9.0	9.0	400	360	342
Colorado	[illegible]	81	93	11.0	11.0	11.5	814	891	1,070
New Mexico	1	1	1	12.0	18.0	6.0	12	18	[illegible]
Utah	3	3	3	8.0	7.0	10.0	24	21	30
Idaho	3	3	3	16.0	14.0	13.0	48	42	39
Washington	18	12	9	15.5	12.0	11.5	279	144	104
Oregon	8	8	9	15.0	14.0	14.0	120	112	126
United States	3,480	3,331	3,722	12.5	12.6	13.5	43,366	41,911	50,234

UNITED STATES—BUCKWHEAT CROP AND ACREAGE

Department of Agriculture estimates of the United States buckwheat acreage, yield per acre, and total production, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Maine	13	12	10	23.0	28.0	23.0	299	336	230
Vermont	[illegible]	[illegible]	[illegible]	24.0	25.0	20.0	48	50	40
New York	192	198	210	18.1	16.0	16.5	3,475	3,168	3,465
New Jersey	1	1	1	20.0	18.0	18.0	20	18	18
Pennsylvania	195	199	199	19.5	17.0	12.5	3,802	3,383	2,488
Delaware	2	2	[illegible]	17.0	18.0	10.0	34	36	20
Maryland	[illegible]	7	7	19.0	18.0	13.0	133	126	91
Virginia	17	15	15	19.2	19.5	12.8	326	292	192
West Virginia	40	40	30	20.0	19.0	13.0	800	760	390
North Carolina	10	11	8	19.0	20.0	15.0	190	220	120
Ohio	35	38	27	20.0	17.7	16.0	700	673	432
Indiana	15	15	10	15.0	14.5	13.5	225	218	135
Illinois	5	5	[illegible]	14.0	15.0	12.0	70	75	48
Michigan	48	45	22	15.0	9.0	6.5	720	405	143
Wisconsin	25	21	20	16.5	14.5	13.5	412	304	270
Minnesota	88	70	56	12.2	11.6	9.5	1,074	812	632
Iowa	6	8	4	14.5	12.0	13.0	87	96	52
Missouri	[illegible]	[illegible]	[illegible]	13.0	15.0	15.0	13	15	15
North Dakota	10	5	5	14.5	6.0	4.0	145	30	20
South Dakota	19	16	[illegible]	14.5	9.5	7.0	276	152	56
Nebraska	[illegible]	1	1	9.6	11.2	8.0	10	11	8
Kentucky	14	14	13	17.0	18.0	12.5	238	252	162
Tennessee	3	3	3	17.0	14.0	16.0	51	42	48
United States	749	729	658	17.6	15.7	13.6	13,148	11,474	8,975

UNITED STATES—BARLEY CROP AND ACREAGE

Department of Agriculture estimates of the United States barley acreage, yield per acre, and total production, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Maine	[illegible]	[illegible]	3	28.0	31.0	34.0	112	121	102
Vermont	6	5	5	25.0	30.0	30.0	150	150	150
New York	169	155	144	27.5	22.1	32.0	4,648	3,426	4,608
New Jersey	[illegible]	1	[illegible]	30.0	22.0	33.0	60	22	[illegible]
Pennsylvania	29	36	47	27.0	24.5	29.5	783	882	1,386
Maryland	13	[illegible]	15	32.0	32.0	35.0	416	416	525
Virginia	[illegible]	18	24	29.0	28.0	[illegible]	406	504	[illegible]
North Carolina	32	40	43	23.0	24.0	21.5	736	960	924
Ohio	333	103	122	27.6	23.5	27.5	9,191	2,420	3,355
Indiana	78	36	38	23.0	22.0	25.0	1,794	792	[illegible]
Illinois	680	456	337	29.5	20.5	30.0	20,060	12,084	10,110
Michigan	270	243	215	30.0	23.0	[illegible]	8,100	5,589	[illegible]
Wisconsin	725	703	703	37.1	32.5	37.0	26,898	22,848	[illegible]
Minnesota	2,000	2,200	1,980	30.0	27.0	28.2	60,000	59,400	[illegible]
Iowa	802	592	527	33.5	29.0	31.0	26,466	17,168	[illegible]
Missouri	13	14	15	22.0	17.0	21.5	286	238	[illegible]
North Dakota	2,179	2,462	2,290	25.5	14.2	17.5	55,564	34,960	40,075
South Dakota	1,680	2,016	1,936	21.7	18.5	[illegible]	36,456	37,296	42,570
Nebraska	430	647	725	32.6	[illegible]	30.8	14,108	18,892	22,330
Kansas	633	608	545	27.9	[illegible]	22.9	17,661	12,164	12,480
Kentucky	2	7	[illegible]	25.0	29.5	24.0	50	206	216
Tennessee	21	24	29	20.0	20.0	21.0	420	480	[illegible]
Texas	156	203	193	21.0	25.0	22.0	3,276	5,075	[illegible]
Oklahoma	54	57	57	22.0	25.0	18.5	1,188	1,425	[illegible]
Montana	209	251	226	30.5	16.0	18.5	6,374	4,016	[illegible]
Wyoming	95	124	136	28.0	24.0	24.5	2,660	2,976	3,332
Colorado	547	651	612	24.0	21.0	25.5	13,128	13,671	15,606
New Mexico	12	13	15	19.0	25.0	24.0	228	325	360
Arizona	17	18	19	38.0	35.0	36.0	646	630	[illegible]
Utah	34	39	[illegible]	49.0	40.0	43.0	1,666	1,560	[illegible]
Nevada	11	11	12	35.0	33.0	40.0	385	363	[illegible]
Idaho	144	147	165	43.0	39.0	42.0	6,192	5,733	6,930
Washington	55	63	63	35.5	34.0	34.0	1,952	2,142	[illegible]
Oregon	105	116	104	35.0	37.0	36.0	3,675	4,292	[illegible]
California	1,044	992	1,012	30.5	29.6	35.0	31,842	29,363	35,420
United States	12,698	13,068	12,437	28.4	23.2	26.2	357,487	302,392	325,893

Northwest—Durum Wheat Crop

Total durum wheat and other spring wheat acreage in Minnesota, the Dakotas and Montana, as reported by the Department of Agriculture (000's omitted in acreages):

	Durum Acres	Durum Per cent	Other spring wheat Acres	Other spring wheat Per ct.
1930.....	4,643	26.8	12,471	73.2
1929.....	5,626	30.3	12,705	69.7
1928.....	6,836	36.1	12,068	63.9
1927.....	6,484	30.4	12,504	69.6
1926.....	4,774	24.7	14,576	75.3
1925.....	4,280	24.7	13,020	75.3
1924.....	3,826	25.6	11,091	74.4
1923.....	5,296	31.5	11,516	68.5
1922.....	5,702	34.8	10,831	65.2
1921.....	5,276	31.3	11,563	68.7
1920.....	4,409	25.3	12,614	74.7
1919.....	3,782	19.2	15,883	80.8
1918.....	3,313	20.4	12,911	79.6

Details by states of the 1930 acreage, as reported by the Department of Agriculture (000's omitted in acreages):

	Durum Acres	Durum Per cent	Other spring wheat Acres	Other spring wheat Per ct.
Minnesota..	200	17.3	950	82.7
N. Dakota..	3,063	32.6	6,283	67.3
S. Dakota..	1,360	41.2	1,940	58.8
Montana ..	30	.9	3,298	99.1
Totals ..	4,643	26.8	12,471	73.2

Total durum wheat and other spring wheat crops in Minnesota, the Dakotas and Montana, as reported by the Department of Agriculture (000's omitted in crops):

	Durum Crop	Durum Per cent	Other spring wheat Crop	Other spring wheat Per ct.
1930.....	55,665	30.0	129,829	70.0
1929.....	54,190	30.6	122,769	69.4
1928.....	97,291	35.3	178,012	64.7
1927.....	79,100	30.7	178,147	69.3
1926.....	43,381	29.8	103,779	70.2
1925.....	61,661	30.5	140,106	69.5
1924.....	62,373	25.7	180,167	74.3
1923.....	52,834	33.7	103,616	66.3
1922.....	87,669	37.2	144,207	62.8
1921.....	53,324	34.4	101,486	65.5
1920.....	48,200	30.8	107,884	69.2
1919.....	30,996	23	103,570	77
1918.....	50,236	19	212,087	81

Durum wheat crop in Minnesota, the Dakotas and Montana, in bushels (000's omitted):

	Minn.	N. Dak.	S. Dak.	Total three states	Mont.
1930...	3,400	35,720	13,192	52,312	3,353
1929...	3,160	37,574	16,320	57,054	2,861
1928...	6,360	77,250	14,145	97,755	536
1927...	3,538	59,108	16,154	78,800	300
1926...	2,674	36,138	5,049	43,861	120
1925...	2,219	46,282	12,510	61,011	640
1924...	2,709	44,939	13,321	60,969	1,404
1923...	2,858	33,370	15,300	51,528	1,306
1922...	3,960	60,397	19,206	83,563	4,106
1921...	1,764	36,741	10,570	48,885	4,259
1920...	1,383	33,702	8,884	43,969	4,231
1919...	1,485	21,720	6,848	30,053	943
1918...	2,460	30,856	12,403	45,719	4,516

Winter Wheat Acreage Abandoned

Percentage of winter wheat area sown in the United States which was abandoned (not harvested), as reported by the Department of Agriculture:

Year	Per cent	Year	Per cent
1930.....	11.0	1915.....	3.7
1929.....	6.5	1914.....	3.1
1928.....	25.1	1913.....	4.7
1927.....	8.4	1912.....	20.1
1926.....	5.6	1911.....	10.7
1925.....	22.5	1910.....	13.7
1924.....	6.6	1909.....	7.5
1923.....	14.3	1908.....	4.3
1922.....	14.4	1907.....	11.3
1921.....	4.6	1906.....	5.5
1920.....	11.9	1905.....	4.6
1919.....	1.1	1904.....	15.4
1918.....	13.7	1903.....	2.8
1917.....	31.0	1902.....	11.2
1916.....	11.4	1901.....	6.7

UNITED STATES—WHEAT CROP BY STATES

United States winter and spring wheat crops, by leading states, as estimated by the Department of Agriculture, in bushels (000,000's omitted):

WINTER WHEAT

	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916
Kansas	155	138	177	111	150	77	160	84	123	129	143	160	102	45	98
Oklahoma	34	44	60	33	74	27	59	38	31	47	54	66	33	36	30
Nebraska	70	61	67	71	37	35	56	34	57	58	58	55	33	7	65
Ohio	29	33	9	29	40	21	33	43	35	30	30	57	43	41	33
Illinois	37	33	18	31	39	36	37	61	53	44	41	62	56	30	17
Indiana	29	28	10	28	34	26	29	34	29	24	25	41	49	33	19
Texas	28	38	22	18	33	7	25	16	10	21	21	40	9	16	13
Missouri	20	17	19	16	21	22	21	37	29	25	35	61	53	29	17
Pennsylvania	25	20	17	20	23	23	19	24	25	21	22	25	25	24	26
Michigan	19	17	14	19	18	14	20	16	14	14	15	19	10	15	13
Washington	20	25	24	36	19	10	20	37	22	13	25	25	14	11	14
Colorado	17	13	11	14	14	11	16	13	10	16	18	14	10	8	7
Oregon	19	20	20	23	17	7	13	22	16	21	14	17	11	8	13
Montana	8	7	12	14	7	8	11	11	12	6	8	8	9	9	12
Virginia	10	9	10	8	11	9	8	11	10	8	11	12	13	16	15
Maryland	12	9	9	9	12	10	8	11	10	8	10	9	11	11	10
Iowa	8	7	8	8	8	6	9	13	16	9	9	16	9	3	6
New York	6	8	8	6	8	6	6	8	9	9	9	9	7	8	8
Idaho	13	11	10	12	10	11	7	11	9	10	9	8	7	6	8
North Carolina	4	5	5	5	6	4	5	6	5	5	5	6	6	9	9
California	13	12	16	14	12	11	6	16	15	8	10	17	8	7	6
Kentucky	3	3	4	3	3	3	3	8	7	6	6	10	12	9	8
Tennessee	4	4	4	4	5	4	3	5	4	4	4	4	7	5	8
West Virginia	3	3	3	3	3	3	3	3	3	3	3	4	5	4	4
Minnesota	3	3	3	3	3	3	2	3	2	1	1	1	1	1	4
Utah	4	3	4	3	3	3	3	3	1	3	2	2	3	2	5
New Mexico	1	5	1	1	5	..	..	..	..	2	3	2	1	1	1
Delaware	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2
New Jersey	1	1	1	1	1	1	1	1	2	2	1	1	2	2	2
South Carolina	1	1	1	1	1	1	1	2	1	1	1	1	2	2	2
Wisconsin	1	1	1	1	1	1	1	2	1	1	1	2	1	1	2
South Dakota	1	2	1	2	1	1	2	1	2	1	1	2	2	1	3
Georgia	1	1	1	1	2	1	1	2	1	1	1	3	3	3	4
Arkansas	..	..	..	..	..	..	..	1	1	1	1	2	3	3	2
Arizona	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wyoming	2	1	1	1	1	1	..	..	1	1	1	1	..	2	1
Totals	601	576	579	552	627	402	592	572	587	600	611	760	565	413	490

SPRING WHEAT

	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916
North Dakota	100	91	155	130	77	112	133	74	127	81	80	63	106	56	39
Montana	28	33	66	66	37	43	41	37	43	27	24	7	21	10	17
Minnesota	18	17	24	18	22	27	23	22	26	22	27	35	75	50	26
South Dakota	38	30	34	44	11	30	31	26	38	25	25	30	60	43	23
Idaho	15	14	18	20	14	15	9	19	16	17	16	13	13	9	7
Washington	19	17	13	22	21	30	6	24	10	15	17	17	16	18	13
Colorado	5	6	7	6	6	4	4	6	5	7	7	5	6	6	4
Utah	3	3	3	3	3	3	3	4	3	3	3	3	4	3	3
Nebraska	3	3	3	3	3	3	3	3	3	3	3	4	6	7	4
Oregon	6	3	3	3	3	12	3	5	3	4	5	5	4	4	4
Wyoming	3	3	3	3	3	2	3	3	3	3	3	2	6	3	3
Illinois	4	3	5	4	2	1	1	2	3	3	4	8	8	1	..
New Mexico	1	1	1	..	1	..	1	1	1	1	1	1	2	1	1
Wisconsin	1	1	1	1	1	1	1	1	1	1	3	5	3	3	3
Iowa	1	1	1	1	1	..	..	1	1	1	2	5	15	6	3
Michigan	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..
Others	2	2	3	2	3	4	2	..	2	3	2	4	3	5	2
Totals	247	233	336	326	201	275	272	225	281	215	222	258	356	224	156

NORTHWEST—WHEAT CROP AND ACREAGE

Wheat acreage, yield per acre and total crop in Minnesota, North Dakota and South Dakota, as estimated by the Department of Agriculture (000's omitted in acreage and crop):

	Minnesota Acres	Minnesota Yield	Minnesota Crop	North Dakota Acres	North Dakota Yield	North Dakota Crop	South Dakota Acres	South Dakota Yield	South Dakota Crop	Total Acres	Total Yield	Total Crop
1930.....	1,301	16.5	21,525	9,336	10.7	99,807	3,420	11.9	40,840	14,057	11.5	162,173
1929.....	1,372	14.4	19,733	10,197	9.5	97,262	3,211	9.7	31,200	14,780	10.0	148,195
1928.....	1,532	15.0	22,964	10,810	14.4	155,358	3,360	15.4	34,928	15,702	13.7	213,250
1927.....	1,763	11.9	20,925	10,246	12.7	130,121	3,037	14.9	45,316	15,046	13.0	196,502
1926.....	1,929	12.9	24,811	9,653	8.0	77,081	1,917	6.1	11,611	13,499	8.4	113,503
1925.....	2,263	13.4	30,249	9,605	11.7	112,378	2,701	11.8	31,835	14,569	11.9	174,462
1924.....	1,716	22.1	37,863	8,500	15.7	133,450	2,403	14.6	35,157	12,624	16.3	206,470
1923.....	1,840	12.7	23,385	9,650	7.6	71,410	2,870	8.6	27,515	14,360	8.7	122,310
1922.....	1,959	13.7	27,576	8,980	14.1	126,618	2,989	13.4	40,012	13,928	13.9	193,206
1921.....	2,371	9.7	22,938	9,503	8.5	80,750	2,945	9.1	26,980	14,819	8.8	130,668
1920.....	2,880	8.6	28,168	8,916	9.9	88,244	2,920	9.2	26,920	14,716	9.2	135,332
1919.....	3,793	9.4	35,731	8,058	6.9	62,776	3,896	8.2	31,793	16,747	8.2	130,300
1918.....	3,619	20.1	75,792	7,770	13.1	101,672	3,290	15.6	52,160	14,669	17.4	243,624
1917.....	3,310	17.5	57,965	7,000	8.0	56,000	3,716	14.0	52,024	14,026	13.2	165,989
1916.....	3,465	7.8	26,410	7,150	5.5	39,325	3,650	6.8	24,825	14,265	6.6	90,560
1915.....	4,160	17.0	70,870	8,350	18.2	151,970	3,725	17.1	63,762	16,235	17.4	286,602
1914.....	4,050	10.6	42,975	7,255	11.2	81,592	3,463	9.1	31,566	14,768	10.3	156,133
1913.....	4,200	16.2	68,040	7,510	10.5	78,855	3,775	9.0	33,975	15,485	11.9	180,870
1912.....	4,325	15.5	67,038	7,990	18.0	143,820	3,675	14.2	52,185	15,990	15.9	263,043
1911.....	4,350	10.1	43,935	8,160	8.0	78,200	3,700	4.0	14,800	16,210	7.4	131,935

Rye Acreage—1931 Crop

Department of Agriculture estimates of the acreage sown to rye in the autumn of 1930, compared with the revised estimate of the acreage in the autumn of 1929 (acres, 000's omitted), and of the condition of the crop on June 1, 1929 and 1930, as compared with the 1919-28 average on that date:

	1,000 acres 1929	1,000 acres 1930	Condition, p.c. Av. 1919-28	Condition, p.c. 1930
New York	26	26	91	88
New Jersey	32	32	91	90
Pennsylvania	127	130	90	90
Ohio	39	42	89	90
Indiana	113	116	90	90
Illinois	93	103	91	89
Michigan	175	191	91	82
Wisconsin	198	208	93	90
Minnesota	429	322	89	87
Iowa	36	43	93	92
Missouri	21	27	88	90
North Dakota	1,327	1,354	83	82
South Dakota	412	453	86	89
Nebraska	343	360	89	96
Kansas	25	32	83	91
Delaware	4	5	90	95
Maryland	19	23	88	93
Virginia	58	61	87	91
West Virginia	8	9	83	91
North Carolina	99	109	90	86
South Carolina	8	10	86	79
Georgia	18	23	89	81
Kentucky	18	23	89	91
Tennessee	30	33	87	87
Arkansas	1	2	86	75
Oklahoma	28	30	89	89
Texas	18	20	79	86
Montana	126	139	81	84
Idaho	3	3	90	90
Wyoming	41	39	87	95
Colorado	113	102	83	92
New Mexico	1	1	77	91
Utah	3	3	87	89
Washington	11	10	89	85
Oregon	9	11	93	83
U. States	3,936	4,155	87.3	87.2

Estimates for rye relate to the acreage sown for grain, allowance having been made for average diversion to other uses and for probable spring sowings in the Dakotas.

United States—Grain Crops

Estimates by the Department of Agriculture of grain and forage crops of the United States by years (in millions of bushels):

	Wheat	Corn	Oats	Barley	Rye	Flax	Buckwheat
1930.	851	2,061	1,402	326	50	24	9
1929.	809	2,614	1,226	393	42	17	11
1928.	915	2,819	1,439	357	43	20	13
1927.	878	2,763	1,183	266	38	26	16
1926.	832	2,645	1,254	191	40	19	12
1925.	676	2,917	1,458	217	46	22	14
1924.	864	2,309	1,503	182	65	32	13
1923.	797	2,854	1,304	193	63	17	14
1922.	868	2,906	1,216	182	103	10	15
1921.	815	3,069	1,078	155	62	8	14
1920.	833	3,209	1,436	189	60	11	13
1919.	968	2,811	1,184	146	76	9	14
1918.	921	2,503	1,538	256	91	13	17
1917.	637	3,065	1,593	212	63	9	16
1916.	636	2,567	1,552	182	43	14	12
1915.	1,026	2,995	1,540	229	54	14	15
1914.	891	2,673	1,141	126	43	16	17
1913.	763	2,447	1,122	179	41	18	14
1912.	730	3,125	1,419	224	36	28	12
1911.	621	2,531	922	160	33	12	18
1910.	635	2,886	1,186	174	35	13	18
1909.	693	2,552	1,007	173	30	20	15
1908.	665	2,669	807	167	32	26	16
1907.	634	2,592	754	154	28	26	14
1906.	735	2,927	965	189	33	26	15
1905.	692	2,702	953	127	29	28	16
1904.	552	2,467	895	140	27	23	15
1903.	638	2,244	784	132	25	27	14
1902.	670	2,524	985	135	34	29	15
1901.	748	1,523	737	110	30	18	15
1900.	522	2,105	809	89	24	20	10
1899.	547	2,078	736	73	24	..	12
1898.	675	1,924	731	56	26	..	12
1897.	520	1,903	699	67	27	..	16
1896.	428	2,284	707	70	24	..	14
1895.	467	2,151	824	87	27	..	16

United States—Wheat and Rye Crops

Department of Agriculture estimates of the wheat and rye crops of the United States, with acreage and yield per acre (area in thousands, crop in millions and yield per acre in bushels):

	Wheat Acres	Wheat Crop bus	Wheat Yield per acre	Rye Acres	Rye Crop bus	Rye Yield per acre
1930...	59,153	[illegible]	14	3,722	50	14
1929...	61,464	[illegible]	13	3,331	42	13
1928...	58,272	[illegible]	16	3,480	[illegible]	13
1927...	58,583	[illegible]	15	3,670	59	16
[illegible]...	56,626	[illegible]	15	3,613	40	[illegible]
1925...	52,255	676	13	3,974	46	[illegible]
1924...	52,535	864	[illegible]	4,150	65	16
1923...	59,659	797	13	5,171	63	[illegible]
1922...	62,317	[illegible]	14	6,672	103	16
1921...	63,696	[illegible]	13	4,528	62	[illegible]
1920...	61,143	[illegible]	[illegible]	4,409	60	[illegible]
1919...	75,694	[illegible]	[illegible]	6,307	75	[illegible]
1918...	59,181	921	16	6,391	91	14
1917...	45,089	637	[illegible]	4,317	63	15
1916...	52,316	636	[illegible]	3,213	49	15
1915...	60,469	1,026	[illegible]	3,129	54	17
1914...	[illegible]	891	17	2,541	43	[illegible]
1913...	50,184	[illegible]	15	2,557	[illegible]	16
1912...	45,814	[illegible]	16	2,117	36	[illegible]
1911...	49,543	621	[illegible]	[illegible]	33	[illegible]
1910...	45,681	635	[illegible]	[illegible]	35	16
1909...	44,261	683	15	2,196	[illegible]	13
1908...	47,557	665	[illegible]	1,948	[illegible]	16
1907...	45,211	634	[illegible]	1,926	32	16
1906...	47,306	735	[illegible]	2,002	33	17
1905...	47,854	693	[illegible]	1,730	28	17
1904...	44,075	552	12	1,793	27	15
1903...	49,465	638	13	1,907	29	15
1902...	46,202	670	14	1,979	34	17
1901...	49,896	748	[illegible]	1,988	30	15
1900...	42,495	522	12	1,591	24	15
1899...	44,593	547	12	1,659	[illegible]	[illegible]
1898...	44,055	676	15	1,643	26	[illegible]
1897...	39,465	530	13	1,704	[illegible]	16
1896...	34,619	428	12	1,831	[illegible]	13
1895...	34,047	467	14	1,890	[illegible]	[illegible]
1894...	34,882	460	13	1,945	[illegible]	[illegible]
1893...	34,629	396	[illegible]	2,038	[illegible]	13
1892...	38,554	516	[illegible]	2,164	28	13
1891...	39,917	612	[illegible]	2,176	32	15
1890...	36,087	399	[illegible]	2,142	26	12
1889...	38,124	491	13	2,171	28	13
1888...	37,336	416	[illegible]	2,365	[illegible]	[illegible]
1887...	37,642	456	12	2,053	21	10
1886...	36,806	457	12	2,130	24	11
1876-85†	34,144	420	12	1,870	[illegible]	13
1866-75†	20,470	245	12	1,347	18	14

†Average crop per year for the period.

UNITED STATES—CORN CROP AND ACREAGE

Department of Agriculture estimates of the United States corn acreage, yield per acre, and total production, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Maine	13	13	13	40.0	40.0	[illegible]	520	520	546
New Hampshire	14	[illegible]	[illegible]	40.0	41.0	[illegible]	560	533	586
Vermont	80	67	64	44.0	41.0	[illegible]	3,520	2,747	2,752
Massachusetts	45	40	39	42.0	39.0	46.0	1,890	1,560	1,794
Rhode Island	10	9	9	39.0	42.0	42.0	390	378	378
Connecticut	55	53	54	42.0	43.0	[illegible]	2,310	2,279	2,268
New York	[illegible]	670	657	34.0	31.1	30.0	22,100	20,837	19,710
New Jersey	[illegible]	179	175	38.5	36.0	[illegible]	6,068	6,444	6,300
Pennsylvania	1,283	1,309	1,322	39.0	35.5	22.0	50,037	46,470	29,084
Delaware	136	134	138	33.0	32.0	[illegible]	4,488	4,288	2,815
Maryland	530	520	530	36.5	36.5	14.7	19,345	18,980	7,791
Virginia	1,626	1,522	1,568	27.5	[illegible]	[illegible]	44,715	44,138	18,032
West Virginia	459	441	411	36.0	36.0	[illegible]	16,524	15,876	5,865
North Carolina	2,305	2,259	2,530	18.5	22.5	[illegible]	42,642	50,828	51,806
South Carolina	1,422	1,422	1,635	12.0	[illegible]	16.5	17,064	23,321	26,978
Georgia	3,620	3,656	3,729	10.5	13.8	12.2	38,010	50,453	45,494
Florida	[illegible]	625	625	13.0	13.5	12.0	7,891	8,438	7,500
Ohio	[illegible]	3,518	3,483	37.5	36.5	25.5	136,725	128,407	88,816
Indiana	4,583	4,124	4,206	35.2	32.0	[illegible]	157,802	131,968	110,197
Illinois	9,570	8,900	9,345	38.4	35.0	[illegible]	367,488	311,500	238,298
Michigan	1,461	1,344	1,384	33.5	24.5	[illegible]	48,944	32,928	28,372
Wisconsin	2,121	1,995	2,035	42.0	40.0	[illegible]	89,082	79,800	79,365
Minnesota	4,089	4,253	4,380	34.0	35.0	31.0	139,026	148,855	135,780
Iowa	[illegible]	10,883	11,100	41.5	39.5	[illegible]	464,883	429,878	360,750
Missouri	[illegible]	5,384	5,922	29.0	23.5	12.3	181,640	126,524	72,841
North Dakota	[illegible]	1,057	1,089	24.5	15.5	17.5	24,426	16,384	19,058
South Dakota	4,469	4,916	4,965	31.0	22.8	15.5	93,849	112,085	76,958
Nebraska	8,937	9,144	9,171	23.8	26.0	25.7	212,701	237,744	235,695
Kansas	6,634	6,103	6,347	27.0	17.5	12.0	179,118	106,802	76,164
Kentucky	3,029	2,938	2,909	22.0	27.3	10.8	66,638	80,207	31,417
Tennessee	2,915	2,944	2,915	19.5	[illegible]	[illegible]	56,842	73,600	41,102
Alabama	2,650	2,676	2,810	11.5	14.0	[illegible]	30,475	37,464	29,505
Mississippi	1,765	1,765	1,730	14.0	20.0	11.5	24,710	35,300	19,895
Louisiana	1,242	1,180	1,109	17.0	18.2	11.0	21,114	21,476	12,199
Texas	[illegible]	4,533	4,941	21.0	19.0	[illegible]	99,162	86,127	81,408
Oklahoma	[illegible]	3,020	3,141	23.0	16.0	[illegible]	70,150	48,320	36,436
Arkansas	2,002	1,882	1,788	17.0	14.0	[illegible]	34,034	26,348	8,404
Montana	274	301	271	19.0	12.0	[illegible]	5,206	3,612	3,252
Wyoming	167	157	170	16.0	14.0	[illegible]	2,672	2,198	3,570
Colorado	1,438	1,366	1,516	13.0	17.0	[illegible]	18,694	23,222	37,142
New Mexico	199	209	215	17.5	20.0	14.0	3,482	4,180	3,010
Arizona	39	[illegible]	[illegible]	26.0	28.0	33.0	1,014	1,148	1,353
Utah	18	19	20	29.0	[illegible]	31.0	522	589	620
Nevada	[illegible]	[illegible]	[illegible]	22.0	28.0	22.0	[illegible]	56	44
Idaho	53	51	59	46.0	36.0	39.0	2,438	1,944	2,301
Washington	46	48	50	39.0	38.0	38.0	1,794	1,824	1,900
Oregon	82	86	83	36.0	35.0	33.0	2,952	3,010	2,739
California	75	82	90	32.0	31.0	30.0	2,400	2,542	2,700
United States	100,673	97,856	100,829	28.0	26.7	20.6	2,818,901	2,614,132	2,081,048

United States—Corn and Oats Crops

Department of Agriculture estimates of the corn and oats crops of the United States with acreage and yield per acre (area in thousands, crop in millions and yield per acre in bushels):

	Corn Acres	Corn Crop bus	Corn Yield per acre	Oats Acres	Oats Crop bus	Oats Yield per acre
1930...	100,829	2,081	21	41,598	1,402	[illegible]
[illegible]...	97,856	2,614	27	40,043	1,228	31
1928...	100,673	2,819	28	41,734	1,439	[illegible]
1927...	98,393	2,763	28	41,941	1,183	28
1926...	99,492	2,645	27	44,394	1,254	28
1925...	101,359	2,917	29	44,872	1,488	33
1924...	100,863	2,309	23	42,110	1,503	36
1923...	104,324	3,054	29	40,981	1,306	32
1922...	102,846	2,906	28	40,790	1,216	30
[illegible]...	103,740	3,069	30	45,495	1,078	24
[illegible]...	101,699	3,209	32	42,491	1,496	35
[illegible]...	97,170	2,811	29	40,359	1,184	30
1918...	104,467	2,502	[illegible]	44,349	1,538	[illegible]
1917...	116,730	3,065	26	43,553	1,593	37
1916...	105,296	2,567	24	41,527	1,252	30
1915...	106,197	2,995	28	40,996	1,549	[illegible]
1914...	103,435	2,673	26	38,442	1,141	30
1913...	105,820	2,447	23	38,399	1,122	29
1912...	107,083	3,125	29	37,917	1,418	37
1911...	105,825	2,531	24	37,763	922	[illegible]
1910...	104,035	2,886	28	37,548	1,186	[illegible]
1909...	98,383	2,552	26	35,159	1,007	29
1908...	101,788	2,669	26	32,344	807	25
1907...	99,931	2,592	26	31,837	754	24
1906...	96,738	2,927	30	30,959	965	31
[illegible]...	94,011	2,708	29	28,047	953	[illegible]
1904...	92,232	2,467	27	27,843	895	32
[illegible]...	88,092	2,244	25	27,638	784	[illegible]
1902...	94,044	2,524	27	28,653	988	[illegible]
1901...	91,350	1,523	17	28,541	737	26
1900...	83,321	2,105	25	27,365	809	30
1899...	82,109	2,078	25	26,341	796	30
1898...	77,722	1,924	25	25,777	731	28
1897...	80,095	1,903	[illegible]	25,730	699	27
1896...	81,027	2,284	28	27,566	707	26
1895...	82,076	2,151	26	27,878	824	30
1894...	62,582	1,213	19	27,024	662	24
1893...	72,036	1,620	22	27,273	639	[illegible]
1892...	70,627	1,628	23	27,064	661	24
1891...	76,205	2,060	27	25,582	738	29
[illegible]...	71,971	1,490	21	26,431	524	[illegible]
[illegible]...	78,320	2,113	27	27,462	752	[illegible]
1888...	75,673	1,988	26	26,998	702	26
1887...	72,393	1,456	20	25,921	660	[illegible]
1886...	75,694	1,665	[illegible]	23,658	624	26
1876-85*	60,743	1,537	25	16,797	461	[illegible]
1866-75*	32,716	970	26	9,746	273	[illegible]

*Average crop per year for the period.

United States—Winter and Spring Wheat

Department of Agriculture estimates of the winter and spring wheat crop and acreage of the United States, by years (000's omitted in acreage and 000,000's in yield):

	Acres Winter	Acres Spng	Acres Total	Bushels Wint	Bushels Spng	Bushels Tot
1930..	38,608	[illegible]	59,153	601	247	861
1929..	40,059	21,405	61,464	576	233	809
1928..	36,213	22,059	58,272	579	336	915
1927..	37,872	20,711	58,583	553	319	872
1926..	36,913	19,613	56,526	627	205	832
1925..	31,234	21,021	52,255	402	275	676
1924..	35,656	16,879	52,535	592	272	864
1923..	39,518	20,141	59,659	572	225	797
1922..	42,358	19,959	62,317	587	281	868
1921..	43,414	20,282	63,696	600	215	815
1920..	40,016	21,127	61,143	611	222	833
1919..	50,494	25,200	75,694	760	208	968
1918..	37,130	22,051	59,181	565	356	921
1917..	27,430	18,511	45,941	418	233	651
1916..	34,829	17,956	52,785	482	158	640
1915..	41,308	19,161	60,469	671	352	1,026
1914..	36,008	17,533	53,541	685	206	891
1913..	31,690	18,485	50,184	524	240	763
1912..	26,571	19,243	45,815	400	330	730
1911..	29,162	20,381	49,543	431	191	621
1910..	27,329	18,352	45,681	434	201	635
1909..	28,330	18,393	46,723	446	291	737
1908..	30,026	17,531	47,557	438	227	665
1907..	28,405	16,806	45,211	409	226	634
1906..	29,951	17,355	47,306	493	[illegible]	735
1905..	29,968	17,872	47,354	419	273	693

UNITED STATES—FLAXSEED CROP AND ACREAGE

Department of Agriculture estimates of the United States flaxseed acreage, yield per acre, and total production, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Wisconsin	0	7	[illegible]	13.5	11.5	12.0	122	80	108
Minnesota	726	523	732	8.0	9.0	10.0	5,808	4,707	7,320
Iowa	19	13	26	[illegible]	10.0	[illegible]	198	130	312
Missouri	[illegible]	6	6	[illegible]	6.0	8.5	56	36	51
North Dakota	1,143	1,463	1,931	7.3	4.7	5.2	8,344	6,876	10,041
South Dakota	554	637	670	6.5	5.9	5.2	3,601	3,758	3,484
Nebraska	[illegible]	[illegible]	[illegible]	8.0	7.6	6.0	64	129	144
Kansas	25	23	37	6.9	5.9	7.3	172	136	270
North Carolina	...	...	4	...	...	10.2	...	...	41
Montana	183	343	480	8.5	3.2	3.7	1,556	1,098	1,776
Wyoming	[illegible]	18	27	7.0	5.5	5.0	7	99	135
United States	2,675	2,890	2,146	[illegible]	5.6	6.0	19,928	17,049	23,682

United States—Flaxseed Crop

Department of Agriculture estimates of the flaxseed acreage and crop of the United States (000's omitted):

Year	Acres	Yield bus	Year	Acres	Yield bus
1930...	2,946	23,682	1916...	1,605	14,296
1929...	3,050	17,049	1915...	1,387	14,030
1928...	2,675	19,928	1914...	1,645	13,749
1927...	2,837	25,847	1913...	2,291	17,863
1926...	2,907	19,336	[illegible]...	2,851	28,073
1925...	3,078	22,424	1911...	2,757	19,37[illegible]
1924...	3,469	31,547	1910...	2,467	12,[illegible]18
1923...	2,014	17,060	1909...	2,083	19,513
1922...	1,113	10,376	1908...	2,679	25,805
1921...	1,108	8,029	1907...	2,864	25,851
1920...	1,757	10,774	1906...	2,506	25,576
1919...	1,503	7,256	1905...	2,535	28,477
1918...	1,910	13,360	1904...	3,264	23,400
1917...	1,984	9,164	1903...	3,233	27,300

UNITED STATES—OATS CROP AND ACREAGE

Department of Agriculture estimates of the United States oats acreage, yield per acre, and total production, by states and calendar years:

State—	Acreage, acres (000's omitted) 1928	1929	1930	Yield per acre, bus 1928	1929	1930	Production, bus (000's omitted) 1928	1929	1930
Maine	120	122	122	35.0	40.0	41.0	4,200	4,880	5,002
New Hampshire	10	9	[illegible]	39.0	40.0	44.0	390	360	352
Vermont	79	67	68	34.0	37.0	39.0	2,686	2,479	2,652
Massachusetts	[illegible]	[illegible]	8	32.0	38.0	38.0	224	266	304
Rhode Island	[illegible]	[illegible]	[illegible]	28.0	30.0	35.0	56	60	70
Connecticut	15	[illegible]	13	27.0	30.0	32.0	405	360	416
New York	1,020	979	1,077	33.0	24.0	42.0	33,600	24,377	45,234
New Jersey	50	40	42	30.0	30.0	37.0	1,500	1,200	1,554
Pennsylvania	1,067	1,014	1,075	32.5	29.5	37.5	34,678	29,913	40,312
Delaware	[illegible]	3	4	30.0	28.0	30.0	120	84	120
Maryland	54	47	49	31.5	31.0	32.5	1,701	1,457	1,592
Virginia	182	167	200	25.5	[illegible]	19.0	4,641	3,841	3,800
West Virginia	204	216	216	28.0	26.0	20.5	5,712	5,616	4,428
North Carolina	191	258	286	22.0	24.0	22.8	4,202	6,192	6,521
South Carolina	337	408	408	23.0	27.0	24.5	7,751	11,016	9,996
Georgia	265	424	360	20.0	22.5	23.0	6,300	9,540	8,280
Florida	11	12	12	17.4	14.0	15.0	191	168	180
Ohio	2,413	1,689	1,790	37.0	29.5	36.0	89,281	49,826	64,440
Indiana	2,430	1,895	1,914	37.0	[illegible]	30.0	89,910	54,008	57,420
Illinois	4,649	4,231	4,569	37.5	[illegible]	33.5	174,338	141,738	153,062
Michigan	1,633	1,372	1,482	35.8	[illegible]	38.0	58,461	40,886	56,316
Wisconsin	2,495	2,470	2,470	43.5	[illegible]	44.0	108,532	85,215	108,680
Minnesota	4,089	4,212	4,338	37.5	[illegible]	39.5	153,338	153,738	171,351
Iowa	6,001	5,997	6,146	38.5	[illegible]	39.0	231,154	215,892	239,655
Missouri	1,706	1,535	1,781	28.0	[illegible]	27.5	47,768	33,770	48,978
North Dakota	1,934	1,876	1,838	31.0	18.0	21.0	59,954	33,768	38,598
South Dakota	2,193	2,259	2,236	27.0	28.5	29.0	59,211	64,382	64,844
Nebraska	2,392	2,480	2,486	33.0	34.8	32.2	78,936	86,304	80,017
Kansas	1,301	1,197	1,385	29.0	23.6	30.4	37,729	28,249	42,104
Kentucky	305	290	218	26.0	21.5	16.0	7,930	6,235	3,488
Tennessee	188	197	217	21.5	18.0	20.0	4,042	3,546	4,340
Alabama	70	119	109	17.5	19.5	17.5	1,225	2,320	1,908
Mississippi	41	55	33	20.0	22.0	18.0	820	1,210	594
Louisiana	[illegible]	48	[illegible]	24.5	25.0	20.0	1,078	1,200	820
Texas	1,402	1,542	1,696	25.5	28.0	27.5	35,761	43,176	46,640
Oklahoma	890	792	919	26.0	26.0	28.0	23,140	20,592	25,732
Arkansas	155	186	195	22.0	26.0	25.0	3,410	4,836	4,875
Montana	554	554	526	36.5	17.0	17.5	20,221	9,418	9,205
Wyoming	132	139	126	29.0	26.0	27.0	3,828	3,614	3,402
Colorado	193	212	212	31.0	31.0	33.5	5,983	6,572	7,102
New Mexico	36	43	47	20.0	27.0	21.0	720	1,161	987
Arizona	14	15	20	38.0	32.0	35.0	532	480	700
Utah	55	58	55	45.0	42.0	42.0	2,475	2,436	2,310
Nevada	2	2	2	40.0	35.0	36.0	80	70	72
Idaho	137	151	113	47.0	40.0	43.0	6,439	6,040	6,149
Washington	201	191	210	47.0	47.0	48.0	9,447	8,977	10,080
Oregon	304	304	289	36.0	41.0	41.0	10,944	12,464	11,849
California	154	145	157	34.5	30.6	35.0	5,313	4,437	5,495
United States	41,734	40,043	41,598	34.5	30.7	33.7	1,439,407	1,228,369	1,402,026

Northwest—Flaxseed Crop

Department of Agriculture estimates of the flaxseed crop in the Northwest, by calendar years, in bushels (000's omitted):

	Minn.	N. D.	S. D.	Totals	Mont.
1930...	7,320	10,011	3,484	20,845	1,776
1929...	4,707	6,876	3,758	15,341	1,098
1928...	5,808	8,344	3,601	17,753	1,556
1927...	7,343	10,184	5,940	23,467	1,734
1926...	7,652	7,590	2,755	17,997	693
1925...	7,400	9,496	3,801	20,697	1,098
1924...	8,117	15,920	4,713	28,750	2,140
1923...	5,270	8,085	2,414	15,769	902
1922...	3,100	4,845	1,539	9,484	605
1921...	2,983	2,795	1,404	7,182	560
1920...	3,040	4,033	2,200	9,273	1,058
1919...	2,304	2,990	1,120	6,414	481
1918...	3,536	6,240	1,425	12,201	1,641
1917...	2,090	3,764	980	6,834	1,749
1916...	1,700	8,137	930	10,767	3,088
1915...	3,150	6,534	1,100	10,784	2,625
1914...	2,930	6,972	750	10,652	2,400

Winter Wheat Acreage—1931 Crop

Department of Agriculture estimates of the acreage sown to winter wheat in the autumn of 1930, compared with the revised estimate of the acreage in the autumn of 1929 (acres, 000's omitted), and of the condition of the crop on Dec 1, 1929 and 1930 as compared with the 1919-28 average of that date:

State—	1,000 acres 1929	1930	Condition, p. ct. Avge	1929	1930
New York	275	236	91	88	88
New Jersey	53	51	89	93	90
Pennsylvania	1,145	1,076	89	89	67
Ohio	1,893	1,912	84	89	87
Indiana	1,732	1,716	84	89	88
Illinois	2,295	2,249	85	86	86
Michigan	844	827	89	82	79
Wisconsin	44	[illegible]	92	89	84
Minnesota	164	123	91	86	86
Iowa	377	320	91	92	[illegible]
Missouri	1,516	1,[illegible]8	84	89	[illegible]
South Dakota	126	139	85	88	85
Nebraska	3,715	3,269	85	96	91
Kansas	12,353	12,229	78	92	90
Delaware	107	96	89	96	85
Maryland	517	465	86	93	[illegible]
Virginia	652	665	85	91	[illegible]
W. Virginia	135	138	87	91	[illegible]
N. Carolina	[illegible]	449	87	82	[illegible]
S. Carolina	44	[illegible]	86	[illegible]	[illegible]
Georgia	52	91	88	[illegible]	[illegible]
Kentucky	247	272	87	89	81
Tennessee	321	385	84	85	86
Alabama	4	[illegible]	85	83	88
Mississippi	5	8	84	82	82
Arkansas	28	35	83	81	82
Oklahoma	4,124	3,877	79	86	[illegible]
Texas	3,060	3,152	79	88	[illegible]
Montana	768	760	79	81	55
Idaho	542	542	88	77	94
Wyoming	126	127	86	90	91
Colorado	1,509	1,328	82	91	[illegible]
New Mexico	346	367	79	92	91
Arizona	47	42	94	[illegible]	[illegible]
Utah	171	162	88	86	95
Nevada	[illegible]	3	92	79	91
Washington	1,278	1,661	81	40	[illegible]
Oregon	818	848	92	51	[illegible]
California	689	655	90	[illegible]	[illegible]
U. States	42,513	42,042	83.2	86.0	86.3

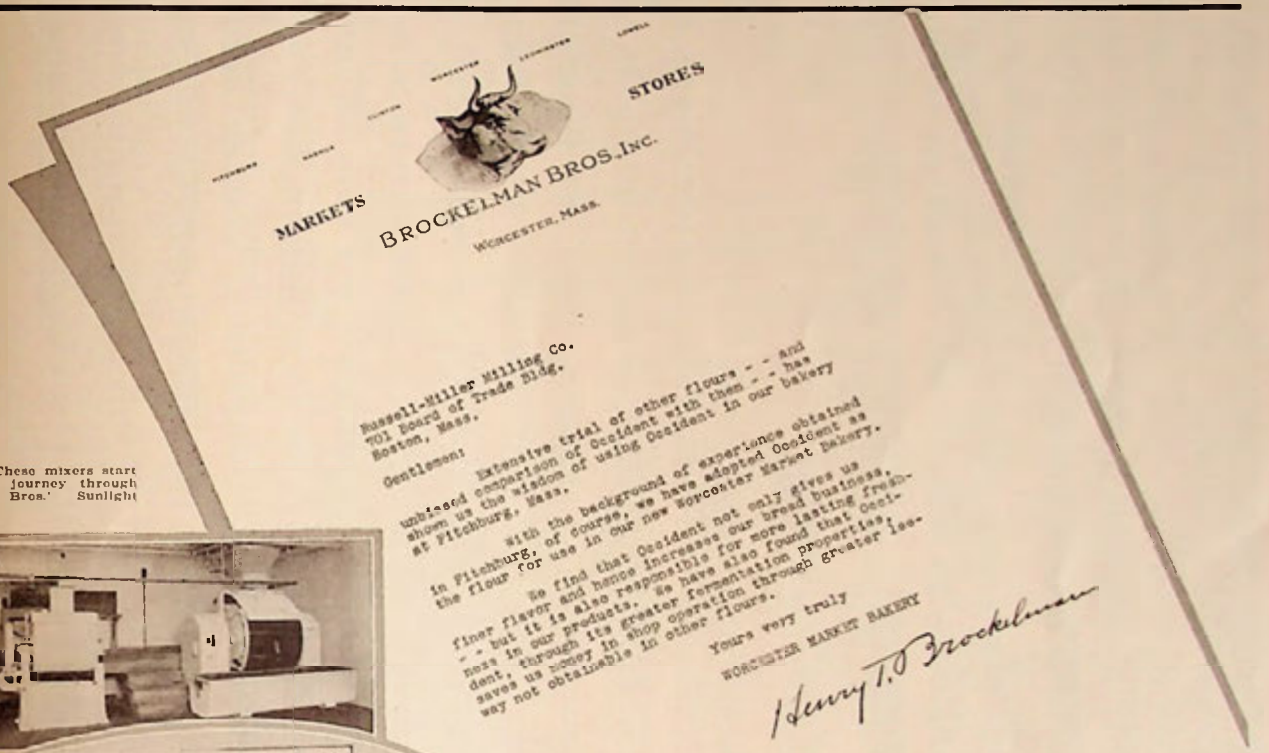
United States—Cotton Crop

Department of Agriculture estimates of the United States cotton acreage (in acres, 000's omitted) and production (in bales of 500 lbs, 000's omitted), in 1929 and 1930:

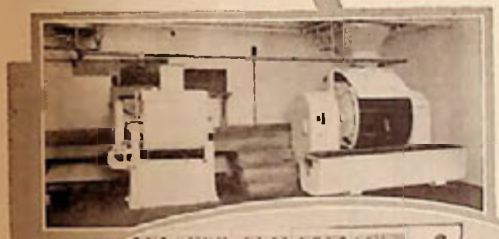
State—	Acreage 1929	1930	Production 1929	1930
Virginia	88	88	48	42
North Carolina	1,782	1,631	747	79[illegible]
South Carolina	2,183	[illegible]	830	1,040
Georgia	3,782	3,903	1,343	1,625
Florida	95	103	29	[illegible]
Missouri	343	369	220	[illegible]
Tennessee	1,120	1,227	515	[illegible]
Alabama	3,589	3,601	1,342	1,49[illegible]
Mississippi	4,071	4,249	1,915	1,500
Louisiana	2,050	2,093	809	710
Texas	17,872	16,975	3,910	4,1[illegible]
Oklahoma	4,492	4,061	1,143	[illegible]
Arkansas	3,834	3,897	1,435	[illegible]
New Mexico	130	127	90	[illegible]
Arizona	226	212	153	103
*California	309	270	260	[illegible]
All other	15	19	9	250
U. States	45,981	45,218	14,828	14,[illegible]

*Not including production in Lower California (old Mexico).

"....Occident gives us finer flavor— increases our bread business"



Upper Left: These mixers start bread on its journey through Brockelman Bros.' Sunlight Bakery.

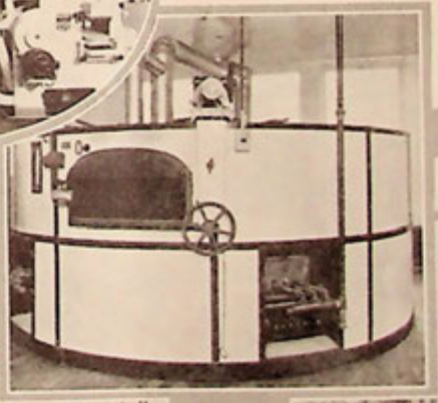


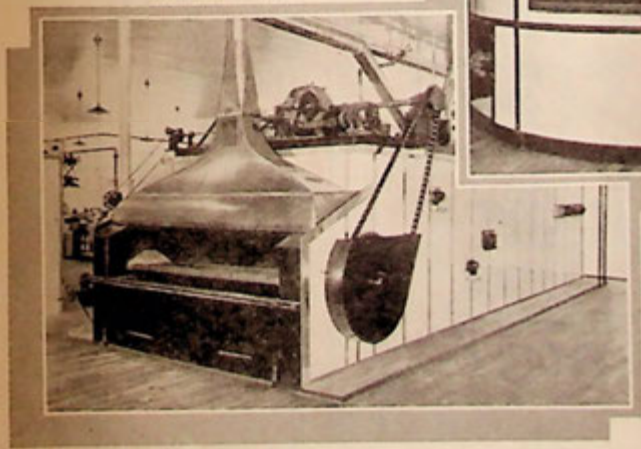
At Left: Rotary gas-fired oven used for production of Brockelman's pastry.

Lower Left: Peterson Traveling Tray Oven —which bakes 12,000 loaves of bread per hour.

Below: Truck fleet operated by Worcester Market Bakery in their "oven-to-home" service.

Above: Divider and overhead proofer in Brockelman's new Worcester Market Bakery.





The RUSSELL-MILLER MILLING CO. *Minneapolis, Minn.*

United States—Barley and Buckwheat Crops

Department of Agriculture estimates of the barley and buckwheat crops of the United States, with acreage and yield per acre (area in thousands, crop in millions, and yield per acre in bushels):

	Barley			Buckwheat		
	Acres	Crop bus	Yield per acre	Acres	Crop per bus	Yield acre
1930	12,437	326	26	658	9	14
1929	13,068	303	23	729	11	15
1928	12,594	357	28	745	13	18
1927	9,478	266	28	810	16	20
1926	7,970	185	23	694	13	18
1925	8,088	217	27	747	14	19
1924	6,925	182	26	745	13	18
1923	7,835	198	25	739	14	19
1922	7,317	182	25	764	15	19
1921	7,434	155	21	650	14	21
1920	7,660	189	25	701	13	19
1919	6,770	148	22	700	14	21
1918	9,240	256	28	1,027	17	17
1917	8,933	212	24	924	16	17
1916	7,757	182	24	828	12	14
1915	7,148	229	32	769	15	20
1914	7,389	195	26	792	17	21
1913	7,389	178	24	805	14	17
1912	7,630	224	30	841	19	23
1911	7,627	160	21	833	18	21
1910	7,743	174	22	860	18	20
1909	7,698	173	22	878	15	17
1908	6,646	167	25	803	16	20
1907	6,448	154	24	800	14	18
1906	6,324	179	28	789	15	19
1905	5,096	137	27	760	15	19

United States—Hay Crop

Department of Agriculture estimates of the hay crop of the United States, including both tame and wild hay, in 1929 and 1930, in tons (000's omitted):

State	Tame		Wild	
	1929	1930	1929	1930
Maine	1,365	1,262	14	16
N. Hampshire	567	522	16	14
Vermont	1,528	1,465	14	12
Massachusetts	616	549	13	12
Rhode Island	54	46	2	2
Connecticut	456	421	11	8
New York	6,561	5,584	85	82
New Jersey	532	524	20	18
Pennsylvania	4,280	3,770	18	18
Delaware	102	79	3	3
Maryland	628	374	4	4
Virginia	1,373	596	27	11
West Virginia	1,149	495	14	13
North Carolina	804	748	60	46
South Carolina	313	303	3	2
Georgia	423	436	14	16
Florida	61	59	3	3
Ohio	5,009	2,462	9	7
Indiana	3,517	2,005	22	17
Illinois	5,408	3,752	48	30
Michigan	5,022	3,541	63	55
Wisconsin	7,320	5,672	295	239
Minnesota	4,457	3,601	2,010	2,010
Iowa	6,474	4,986	324	248
Missouri	5,211	3,310	139	109
North Dakota	1,426	1,486	957	1,195
South Dakota	1,933	1,883	1,631	1,580
Nebraska	3,672	3,818	2,662	2,616
Kansas	4,936	2,533	1,080	804
Kentucky	1,763	860	39	22
Tennessee	1,874	1,119	63	34
Wyoming	1,213	1,141	361	324
Alabama	463	442	14	10
Mississippi	559	363	33	20
Louisiana	314	341	26	17
Texas	744	716	246	209
Oklahoma	575	668	489	480
Arkansas	629	489	121	81
Montana	2,034	2,009	477	372
Colorado	2,677	2,659	426	430
New Mexico	447	336	33	27
Arizona	679	756	10	12
Utah	1,500	1,466	126	114
Nevada	496	521	142	156
Idaho	2,751	2,596	121	117
Washington	1,875	1,933	39	35
Oregon	1,935	2,282	282	279
California	5,178	5,729	158	184
U. States	100,893	82,656	12,765	12,111

United States—Spring Wheat Condition

Condition of spring wheat as reported by the Department of Agriculture, in terms of percentage of normal:

Year	June 1	July 1	Aug. 1	Sept. 1
1930	86.0	74.7	60.7	63.1
1929	84.8	74.4	56.2	58.4
1928	79.0	71.7	81.8	82.0
1927	86.8	89.7	86.4	82.7
1926	78.5	64.8	60.2	58.4
1925	87.1	88.1	73.9	75.0
1924	82.3	81.9	79.7	82.3
1923	90.2	82.4	69.6	65.1
1922	90.7	83.7	80.4	80.1
1921	93.4	80.8	66.6	62.5
1920	89.1	88.0	73.4	64.1
1919	91.2	80.9	53.9	48.5
1918	95.2	86.1	79.6	79.8
1917	91.6	83.6	68.7	71.2
1916	88.2	89.0	63.4	48.6
1915	94.9	93.3	93.4	94.6
1914	95.5	92.1	75.5	68.0
1913	93.5	73.8	74.1	76.3
1912	95.8	89.3	90.4	90.8
1911	94.6	73.8	59.8	56.7
1910	92.8	61.6	61.0	63.1
1909	95.2	92.7	91.6	88.6
1908	95.0	89.4	80.7	77.6
1907	88.7	87.2	79.4	77.1
1906	93.4	91.4	86.9	83.4
1905	93.7	91.0	89.2	87.3
1904	93.4	93.7	87.6	66.2
1903	95.9	82.6	77.1	78.1
1902	95.4	92.4	89.7	87.2
1901	92.0	95.6	80.3	78.4
1900	87.3	85.2	56.4	56.1
1899	91.4	91.7	83.6	77.2
1898	100.9	95.0	95.5	91.7
1897	89.6	91.2	86.7	80.8
1896	99.9	93.3	78.9	73.8
1895	97.8	102.2	96.9	94.9
1894	88.0	68.4	67.1	69.9
1893	86.4	74.1	67.0	68.9
1892	92.3	90.8	87.3	81.2
1891	92.6	94.1	95.6	97.2

UNITED STATES—POTATO CROP AND ACREAGE

Department of Agriculture estimates of the United States potato acreage, yield per acre, and total production, by states and calendar years:

WHITE POTATOES

State	000's omitted Acreage, acres			Yield per acre, bus			000's omitted Production, bus		
	1928	1929	1930	1928	1929	1930	1928	1929	1930
Maine	181	179	188	220	280	240	39,820	50,120	45,120
New Hampshire	12	10	11	138	166	215	1,656	1,660	2,365
Vermont	21	17	17	142	150	200	2,982	2,550	3,400
Massachusetts	16	12	12	106	133	200	1,696	1,596	2,400
Rhode Island	2	2	2	122	125	190	244	250	380
Connecticut	17	14	14	130	130	190	2,210	1,820	2,660
New York	284	270	281	114	92	116	32,376	24,840	29,116
New Jersey	57	44	43	160	121	192	9,120	5,324	8,260
Pennsylvania	246	234	234	130	110	99	31,980	25,740	23,166
Delaware	7	6	5	94	82	50	658	492	250
Maryland	47	32	32	115	106	76	5,405	3,395	2,430
Virginia	151	128	143	143	134	102	21,618	17,136	14,583
West Virginia	60	57	60	125	115	70	7,500	6,555	4,200
North Carolina	96	74	90	111	111	98	10,546	8,207	8,839
South Carolina	36	22	23	113	119	129	4,068	2,608	2,973
Georgia	22	20	20	76	78	81	1,682	1,555	1,624
Florida	31	23	32	125	118	80	3,875	2,714	2,560
Ohio	123	106	105	98	90	90	12,054	10,494	9,450
Indiana	61	55	56	109	84	89	6,649	4,620	4,984
Illinois	70	63	67	110	80	78	7,700	5,040	5,226
Michigan	306	263	263	117	75	53	35,802	19,725	15,264
Wisconsin	278	220	244	115	92	74	31,970	20,240	18,056
Minnesota	354	322	305	110	85	70	38,940	27,370	21,350
Iowa	81	65	65	135	103	70	10,935	6,695	4,550
Missouri	85	81	82	121	68	106	10,285	5,508	8,692
North Dakota	141	145	116	105	53	62	14,805	7,685	7,192
South Dakota	67	67	65	90	66	53	6,030	4,422	3,445
Nebraska	105	92	94	96	97	100	10,080	8,924	9,400
Kansas	54	47	45	140	93	110	7,560	4,376	4,995
Kentucky	57	50	45	105	88	63	5,985	4,395	2,831
Tennessee	43	39	41	95	92	70	4,085	3,588	2,887
Alabama	38	28	36	74	86	80	2,812	2,408	2,876
Mississippi	16	14	14	89	87	69	1,329	1,218	970
Louisiana	41	31	33	70	64	72	2,870	1,977	2,565
Texas	39	31	37	69	79	90	2,690	2,469	3,674
Oklahoma	63	44	43	80	75	91	5,038	3,313	3,893
Arkansas	36	31	41	75	87	87	2,700	2,708	2,869
Montana	37	33	29	115	60	76	4,255	1,980	2,204
Wyoming	21	17	17	112	102	150	2,352	1,734	2,550
Colorado	110	88	86	122	140	175	13,420	12,320	15,050
Arizona	3	3	4	74	80	80	222	240	320
New Mexico	2	2	3	66	91	70	132	182	210
Utah	23	18	20	144	185	180	3,312	3,330	3,600
Nevada	6	4	3	140	170	175	840	680	525
Idaho	116	102	117	170	168	214	19,720	17,136	25,038
Washington	70	56	64	135	165	156	9,450	9,240	9,984
Oregon	52	42	42	120	90	150	6,240	3,780	6,300
California	56	35	35	138	150	165	7,728	5,250	5,775
United States	3,837	3,338	3,394	121.3	107.6	106.4	465,350	359,048	361,090

SWEET POTATOES

State	000's omitted Acreage, acres			Yield per acre, bus			000's omitted Production, bus		
	1928	1929	1930	1928	1929	1930	1928	1929	1930
New Jersey	15	14	15	145	140	133	2,175	1,960	1,995
Delaware	7	8	9	140	145	75	980	1,160	675
Maryland	10	10	10	150	125	60	1,500	1,250	600
Virginia	44	45	47	141	149	80	6,336	6,705	3,760
West Virginia	2	2	2	102	120	75	204	240	150
North Carolina	80	78	96	98	117	97	7,840	9,126	9,606
South Carolina	49	50	52	86	115	100	4,214	5,750	5,200
Georgia	119	124	115	86	95	82	10,234	11,780	9,430
Florida	29	29	28	88	110	85	2,464	3,190	2,380
Ohio	3	3	3	120	125	90	360	375	270
Indiana	2	2	3	116	125	90	232	250	270
Illinois	10	10	12	98	102	80	980	1,020	960
Iowa	3	3	3	123	105	100	369	315	300
Missouri	11	12	11	105	110	95	1,155	1,320	1,045
Kansas	2	2	3	130	120	105	260	240	315
Kentucky	14	15	14	89	91	68	1,246	1,365	952
Tennessee	41	44	44	95	100	85	3,895	4,400	3,740
Alabama	70	74	74	93	103	85	6,510	7,622	6,290
Mississippi	65	69	53	110	130	95	6,050	7,670	5,035
Louisiana	74	80	76	90	93	82	6,660	7,440	6,232
Texas	109	104	102	76	71	70	8,284	7,384	7,630
Oklahoma	20	15	15	89	66	61	1,780	990	915
Arkansas	28	26	28	90	66	68	2,520	1,716	1,904
California	12	10	12	96	99	100	1,152	990	1,320
New Mexico	1	1	1	119	123	80	119	123	80
Arizona	1	1	1	142	140	140	142	140	140
United States	810	821	838	95.9	102.9	84.9	77,661	84,521	71,154

UNITED STATES—RICE CROP AND ACREAGE

Department of Agriculture estimates of the United States rice acreage, yield per acre, and total production, by states and calendar years:

State	000's omitted Acreage, acres			Yield per acre, bus			000's omitted Production, bus		
	1928	1929	1930	1928	1929	1930	1928	1929	1930
Missouri	10	1	1	40.0	36.0	45.0	400	36	45
Louisiana	487	472	491	38.5	39.9	36.0	18,750	18,833	17,676
Texas	184	144	186	44.0	51.6	46.5	8,096	7,416	8,463
Arkansas	164	156	172	47.7	51.0	46.0	7,823	7,956	7,912
California	132	95	110	61.9	65.6	66.1	8,171	6,222	7,271
United States	977	868	960	44.3	46.6	43.1	43,240	40,462	41,367

Hard Winter Wheat *Hard Spring Wheat*

B. A. ECKHART
MILLING CO. CHICAGO ILLINOIS

DEPENDABLE FLOURS

Soft Winter Wheat *Rye*

Winter Wheat Condition

Condition of winter wheat as reported by the Department of Agriculture, in terms of percentage of normal:

Year	Dec. 1 previous year	Apr. 1	May 1	June 1	When harvested
1930	86.0	77.4	76.7	77.7	93.4
1929	84.4	82.7	83.6	79.6	86.7
1928	86.0	68.8	74.9	73.6	88.1
1927	81.8	84.5	85.6	72.2	75.0
1926	82.7	84.1	84.0	76.5	77.6
1925	81.0	68.7	77.0	68.5	85.2
1924	88.0	83.0	81.8	74.0	77.9
1923	79.5	75.2	80.1	76.3	76.8
1922	76.0	78.4	83.5	81.9	77.0
1921	88.5	91.8	88.0	77.9	77.2
1920	86.2	75.6	79.1	78.2	79.7
1919	98.6	99.8	100.5	94.9	84.0
1918	78.2	78.6	86.4	83.8	79.5
1917	85.7	63.4	73.2	70.9	75.9
1916	87.7	78.3	82.4	73.2	75.7
1915	88.3	88.8	92.9	85.8	84.4
1914	97.2	95.6	95.9	92.7	94.1
1913	93.5	91.6	91.9	83.5	81.6
1912	86.6	80.6	79.7	74.3	73.3
1911	82.5	83.3	86.1	80.4	76.8
1910	95.8	80.8	82.1	80.9	81.2
1909	85.3	82.2	83.5	80.7	83.4
1908	91.3	91.3	89.0	86.0	80.6
1907	94.1	89.9	82.9	77.4	78.3
1906	94.1	89.1	90.9	82.7	86.6
1905	82.0	91.6	92.5	86.5	82.7
1904	86.6	76.6	76.5	77.7	78.7
1903	99.7	97.3	92.6	82.2	78.8
1902	86.7	78.7	70.4	76.1	77.0
1901	97.1	91.7	94.1	87.8	88.3
1900	97.1	82.1	83.9	82.7	84.8
1899	92.6	77.9	76.2	67.3	65.6
1898	...	86.7	86.5	90.8	85.7
1897	99.5	81.4	80.2	78.5	81.2
1896	81.4	77.1	82.7	77.9	75.6
1895	89.0	81.4	82.9	71.1	65.8
1894	91.5	86.7	81.4	83.2	83.9
1893	87.4	77.4	75.4	75.6	77.7
1892	85.3	81.2	84.0	83.3	80.6
1891	98.4	96.9	97.9	96.6	96.2
1890	96.3	81.0	80.0	78.1	76.2

Kansas—Wheat Crop

Record of wheat production in Kansas, as recorded by the secretary of the Kansas department of agriculture (000's omitted except as to yield in bushels per acre):

Year	Acres sown	Crop bus	Yield per acre
1930	11,775	158,862	13.5
1929	11,516	138,060	12.0
1928	13,041	177,861	13.64
1927	11,902	111,406	9.4
1926	11,392	149,383	13.16
1925	10,502	74,205	8.7
1924	*9,815	153,628	16.30
1923	*11,587	70,372	9.70
1922	12,290	116,864	9.50
1921	10,331	128,101	12.40
1920	8,983	140,842	15.70
1919	11,541	145,795	12.56
1918	9,482	93,195	13.73
1917	8,887	41,503	4.67
1916	8,454	99,384	11.19
1915	9,449	95,768	12.50
1914	9,116	180,024	19.55
1913	7,693	72,458	9.30
1912	6,196	88,888	14.24
1911	6,303	60,809	10.50
1910	6,686	61,017	9.11
1909	6,400	80,959	13.89
1908	6,939	76,809	11.06
1907	7,236	74,056	10.24
1906	6,436	93,293	14.49
1905	5,925	77,178	13.02
1904	5,862	65,142	11.11
1903	5,904	94,012	15.76
1902	6,301	54,649	8.67
1901	5,316	90,333	16.99
1900	4,379	77,339	17.66
1899	4,980	43,687	8.76
1898	4,625	60,791	13.14
1897	3,444	51,027	14.81
1896	3,358	27,775	8.27
1895	4,172	16,001	3.84
1894	4,841	28,206	5.82

*Acreage abandoned in 1924, 5 per cent; yield per acre includes only acreage actually harvested. Acreage abandoned in 1923, 32.4 per cent.

Equivalent Freight per Bushel

To find the freight per bu at any given rate per 100 lbs, in cents:

Freight per 100 lbs	Wheat 60 lbs	Corn 56 lbs	Oats 32 lbs
2	1.20	1.12	.64
2½	1.50	1.40	.80
3	1.80	1.68	.96
3½	2.10	1.96	1.12
4	2.40	2.24	1.28
4½	2.70	2.52	1.44
5	3.00	2.80	1.60
5½	3.30	3.08	1.76
6	3.60	3.36	1.92
6½	3.90	3.64	2.08
7	4.20	3.92	2.24
7½	4.50	4.20	2.40
8	4.80	4.48	2.56
8½	5.10	4.76	2.72
9	5.40	5.04	2.88
10	6.00	5.60	3.20
11	6.60	6.16	3.52
12	7.20	6.72	3.84
13	7.80	7.28	4.16
14	8.40	7.84	4.48
15	9.00	8.40	4.80
16	9.60	8.96	5.12
17	10.20	9.52	5.44
18	10.80	10.08	5.76
19	11.40	10.64	6.08
20	12.00	11.20	6.40
21	12.60	11.76	6.72
22	13.20	12.32	7.04
23	13.80	12.88	7.36
24	14.40	13.44	7.68
25	15.00	14.00	8.00
26	15.60	14.56	8.32
27	16.20	15.12	8.64
28	16.80	15.68	8.96
29	17.40	16.24	9.28
30	18.00	16.80	9.60

Soy Beans Harvested

Department of Agriculture estimates of the acreage, yield per acre and quantity of soy beans gathered (acreage and production in thousands):

State—	Acres* 1920	Acres* 1930	Bus per acre 1929	Bus per acre 1930	Total bus 1929	Total bus 1930
Ohio	49	51	14.5	13.5	710	688
Indiana	100	131	14.2	14.0	1,420	1,834
Illinois	240	321	16.5	16.0	3,960	5,136
Michigan	2	[illegible]	9.0	10.0	18	20
Wisconsin	1	[illegible]	11.0	11.5	11	12
Iowa	35	[illegible]	16.0	15.7	560	816
Missouri	161	153	10.0	9.5	1,610	1,444
Kansas	10	20	9.5	8.7	95	174
Delaware	16	17	10.5	6.3	168	107
Maryland	3	[illegible]	14.4	7.5	43	30
Virginia	13	13	9.0	7.5	117	98
W. Va.	2	[illegible]	15.2	9.6	30	19
N. Car.	162	219	12.0	8.0	1,944	1,752
S. Carolina	8	16	10.0	8.0	80	128
Georgia	8	14	8.0	7.5	64	105
Kentucky	3	3	8.2	7.0	25	[illegible]
Tennessee	27	30	6.5	8.0	176	240
Alabama	[illegible]	[illegible]	5.5	4.8	[illegible]	[illegible]
Mississippi	14	14	10.0	5.0	140	70
Arkansas	[illegible]	7	6.8	4.0	54	28
Louisiana	12	15	8.7	8.0	104	120
Oklahoma	17	18	5.5	5.5	94	99
U. S.	892	1,105	12.8	11.7	11,434	12,955

*Acres from which all or part of the beans grown were gathered.

United States—Live Stock Values

Estimated average value per head of live stock on farms in the United States on Jan. 1 of each year, as reported by the Department of Agriculture:

	Horses	Milch cows	Sheep
1931	$61.36	$57.57	[illegible]
1930	70.69	83.43	8.92
1929	70.11	....	10.62
1928	67.18	73.79	[illegible]
1927	64.14	62.43	[illegible]
1926	65.50	57.34	[illegible]
1925	64.24	50.67	[illegible]
1924	64.45	52.16	[illegible]
1923	69.83	50.83	[illegible]
1922	70.54	50.98	4.80
1921	84.31	64.22	6.30
1920	96.51	85.86	10.47
	Mules	**All cattle**	**Swine**
1931	$68.60	$39.71	$11.66
1930	82.97	57.30	13.76
1929	82.33	59.09	13.05
1928	78.82	.....	13.20
1927	74.49	.....	16.97
1926	81.50	.....	15.21
1925	82.73	.....	12.39
1924	81.18	*25.06	9.75
1923	85.94	26.57	[illegible]
1922	88.09	23.79	[illegible]
1921	116.69	31.36	12.97
1920	148.42	43.21	19.07

*Before 1921 all cattle except milch cows meant.

United States—Farm Animals

Number of farm animals in the United States on Jan. 1, as estimated by the Department of Agriculture (000's omitted):

	Horses	Mules	Milch cows
1931	12,803	5,131	22,975
1930	13,364	5,279	22,443
1929	13,897	5,389	21,919
1928	14,495	5,504	21,828
1927	15,133	5,652	21,801
1926	15,830	5,739	22,188
1925	16,489	5,725	22,481
1924	18,059	5,446	24,786
1923	18,627	5,485	24,437
1922	19,056	5,467	24,082
1921	19,208	5,455	23,594
1920	19,766	5,427	23,722
1919	21,482	4,954	23,475
1918	21,555	4,873	23,310
1917	21,210	4,723	22,894
1916	21,159	4,593	22,108
	Other cattle	**Sheep**	**Swine**
1931	35,980	51,911	52,323
1930	35,535	50,503	53,238
1929	34,470	47,704	57,410
1928	33,848	44,795	60,617
1927	35,031	41,880	54,788
1926	36,934	39,730	52,148
1925	39,516	38,112	55,568
1924	41,720	38,300	66,130
1923	42,803	37,223	68,227
1922	41,560	36,327	57,834
1921	41,993	37,452	56,097
1920	43,398	39,025	59,344
1919	45,085	48,866	74,584
1918	44,112	48,603	70,978
1917	41,689	47,616	67,503
1916	39,812	48,625	67,766

Merchantable Corn Crop

Total corn crop and portion estimated to be of merchantable quality, as compiled by the Department of Agriculture, by years:

Year—	Crop, bus	Merchantable Per cent	Merchantable Bus
1929	2,614,132,000	77.0	2,012,881,640
1928	2,818,901,000	83.1	2,343,506,731
1927	2,763,093,000	73.1	1,954,030,983
1926	2,692,017,000	80.7	2,172,457,719
1925	2,900,581,000	83.6	2,519,203,000
1924	2,312,745,000	66.0	1,527,209,000
1923	3,053,557,000	80.8	2,467,763,000
1922	2,906,020,000	88.3	2,567,044,000
1921	3,068,569,000	87.5	2,681,634,000
1920	3,208,584,000	86.9	2,789,720,000
1919	2,811,302,000	87.1	2,448,204,000
1918	2,502,665,000	82.4	2,062,041,000
1917	3,065,233,000	60.0	1,837,728,000
1916	2,566,927,000	83.9	2,154,487,000
1915	2,994,793,000	[illegible]	2,127,965,000
1914	2,672,804,000	84.5	2,259,755,000
1913	2,446,988,000	80.1	1,961,058,000
1912	3,124,746,000	85.0	2,654,907,000
1911	2,531,488,000	80.1	2,027,922,000
1910	2,886,260,000	86.4	2,492,763,000
1909	2,552,190,000	82.5	2,126,965,000
1908	2,668,651,000	88.2	2,244,571,000
1907	2,592,320,000	[illegible]	1,939,577,000
1906	2,927,416,000	89.1	2,587,596,000
1905	2,707,994,000	88.4	2,427,996,000

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UNITED STATES—AGGREGATE CROP VALUES

The United States Department of Agriculture estimates the farm value of 22 principal crops and the farm value of 67 crops, together with the aggregate acreage of 51 crops for which estimates are now made (000's omitted in acreage; values in thousands of dollars):

State—	Farm value 22 principal crops 1929	Farm value 22 principal crops 1930	Farm value 75 crops 1929	Farm value 75 crops 1930	Total acreage of 51 crops 1929	Total acreage of 51 crops 1930
Maine	84,087	49,142	85,602	50,581	1,420	[illegible]
New Hampshire	12,507	11,101	[illegible]	12,118	439	430
Vermont	27,323	24,872	[illegible]	23,127	1,095	1,084
Massachusetts	31,100	26,199	33,201	28,209	[illegible]	489
Rhode Island	[illegible]	2,318	2,717	2,392	53	52
Connecticut	[illegible]	28,348	30,907	[illegible]	[illegible]	410
New York	194,095	150,529	227,047	212,803	7,469	[illegible]
New Jersey	31,260	30,630	56,027	54,303	750	[illegible]
Pennsylvania	207,232	187,594	211,224	194,424	6,991	7,017
Ohio	246,165	172,371	258,588	183,504	10,481	10,218
Indiana	203,815	117,251	219,313	163,086	10,460	10,379
Illinois	411,232	293,976	431,990	309,313	20,240	20,497
Michigan	185,582	131,233	202,391	173,081	8,181	8,230
Wisconsin	240,973	211,790	254,169	225,469	9,569	9,600
Minnesota	315,061	227,055	320,551	233,263	17,822	17,770
Iowa	491,686	359,091	501,807	367,171	21,839	21,908
Missouri	235,271	152,699	253,176	161,101	13,623	13,799
North Dakota	185,361	118,780	186,937	120,007	[illegible]	20,509
South Dakota	183,109	113,668	186,418	115,908	[illegible]	17,582
Nebraska	334,608	217,702	313,827	237,020	20,923	[illegible]
Kansas	302,206	201,140	305,187	203,840	[illegible]	[illegible]
Delaware	11,285	8,683	16,309	11,917	[illegible]	392
Maryland	52,640	34,771	65,968	42,907	[illegible]	1,734
Virginia	151,897	86,342	163,968	[illegible]	[illegible]	4,037
West Virginia	59,490	31,543	61,336	[illegible]	1,731	1,659
North Carolina	266,419	216,304	293,015	210,206	7,211	7,350
South Carolina	129,881	109,970	153,600	132,824	5,037	5,272
Georgia	209,635	162,814	[illegible]	200,721	10,535	10,622
Florida	53,052	51,201	[illegible]	109,795	1,316	[illegible]
Kentucky	188,250	105,415	195,353	109,926	5,132	[illegible]
Tennessee	184,203	111,933	204,568	130,559	6,667	6,590
Alabama	172,491	120,721	203,031	116,453	8,028	8,337
Mississippi	216,500	107,064	262,469	131,460	6,811	6,787
Arkansas	176,262	74,067	209,613	90,987	7,145	7,137
Louisiana	121,082	73,076	164,721	107,808	4,639	4,623
Oklahoma	222,419	120,119	213,678	132,248	15,309	14,739
Texas	521,749	365,282	603,974	434,512	30,685	31,019
Montana	90,111	55,969	91,067	61,256	7,986	7,805
Idaho	96,817	70,150	103,563	76,750	2,881	2,870
Wyoming	32,640	23,881	36,301	28,671	1,932	1,959
Colorado	105,746	89,363	135,930	121,453	[illegible]	6,579
New Mexico	36,667	17,722	38,741	19,539	[illegible]	1,329
Arizona	36,118	25,763	50,544	34,938	[illegible]	[illegible]
Utah	30,353	21,702	38,581	29,737	1,128	1,158
Nevada	11,175	7,367	11,670	7,484	405	405
Washington	140,491	99,133	155,616	110,640	3,806	3,837
Oregon	83,078	59,173	100,636	68,554	2,825	2,867
California	301,677	226,038	512,451	431,036	5,150	5,252
United States	7,662,353	5,119,885	8,675,270	6,274,427	364,520	366,507

NORTHWEST—PROPORTIONATE GRAIN ACREAGE

Grain acreage in Minnesota and North and South Dakota (000's omitted), in acres, and percentage of total for each grain:

Year—	Wheat	p. c.	Corn	p. c.	Oats	p. c.	Barley	p. c.	Rye	p. c.	Flax	p. c.	Total
1930	[illegible]	31	10,431	23	8,412	19	6,205	14	2,010	5.	3,333	7	44,828
1929	11,780	33	10,226	23	8,317	19	6,678	15	1,056	[illegible]	2,623	6	44,310
1928	15,702	36	9,555	22	8,216	18	5,859	13	1,581	[illegible]	2,423	6	43,638
1927	15,046	37	9,786	23	9,025	21	4,323	9	1,918	[illegible]	2,593	6	42,692
1926	13,499	34	9,982	25	8,540	[illegible]	3,557	9	1,765	[illegible]	2,669	[illegible]	40,052
1925	14,569	34	9,670	[illegible]	9,958	23	3,745	[illegible]	2,212	5.	2,760	[illegible]	42,914
1924	12,624	30	10,729	26	10,037	[illegible]	3,173	[illegible]	2,282	5.	3,133	[illegible]	41,978
1923	14,360	36	9,347	23	8,832	[illegible]	3,102	8	2,536	[illegible]	1,841	5	40,038
1922	13,358	36	8,620	[illegible]	8,809	23	2,797	[illegible]	3,460	[illegible]	933	3	38,637
1921	14,716	38	8,366	[illegible]	9,363	24	3,151	8	1,761	5.	960	3	38,317
1920	14,726	40	7,507	20	8,439	[illegible]	3,008	[illegible]	1,697	[illegible]	1,301	3	38,070
1919	16,787	44	6,718	18	7,856	[illegible]	2,670	[illegible]	2,911	[illegible]	1,038	3	36,478
1918	15,334	40	6,416	17	8,017	21	4,534	[illegible]	2,955	[illegible]	1,324	[illegible]	38,580
1917	14,026	39	6,940	19	7,750	22	4,245	11	1,890	5.	1,325	4	36,086
1916	14,515	[illegible]	5,980	18	7,675	22	3,925	11	935	[illegible]	1,215	4	[illegible]
1915	16,235	46	6,750	19	7,400	21	3,450	9	830	[illegible]	1,060	[illegible]	35,725
1914	14,804	[illegible]	6,100	19	6,964	[illegible]	3,678	11	470	1.	1,475	4	33,491
1913	15,485	46	5,415	[illegible]	6,820	20	3,633	11	475	1.	1,772	5	33,453
1912	15,990	46	5,539	16	6,798	20	3,553	10	326	.9	2,269	[illegible]	34,475
1911	17,200	50	4,800	14	6,668	19	3,545	10	259	.8	2,207	6	34,709
1910	16,751	51	4,100	[illegible]	5,889	18	3,297	10	165	.5	[illegible]	[illegible]	32,939
1909	15,600	50	3,944	13	5,736	18	3,347	11	179	.6	2,580	[illegible]	31,386
1908	14,213	49	3,719	13	5,446	19	3,618	10	[illegible]	.5	2,507	[illegible]	29,197
1907	13,613	48	2,619	13	[illegible]	[illegible]	[illegible]	10	[illegible]	.5	2,615	[illegible]	[illegible]

GRAIN SORGHUMS

Department of Agriculture estimates of acreage, yield per acre and production of grain sorghums, including grain equivalent on forage acreage (000's omitted in acreage and production):

State—	Acreage, acres 1928	Acreage, acres 1929	Acreage, acres 1930	Yield per acre, bus 1928	Yield per acre, bus 1929	Yield per acre, bus 1930	Production, bus 1928	Production, bus 1929	Production, bus 1930
Missouri	99	89	95	22.0	17.0	[illegible]	2,178	1,513	1,710
Nebraska	24	22	[illegible]	[illegible]	[illegible]	20.9	485	376	[illegible]
Kansas	1,284	1,091	1,100	[illegible]	18.0	13.0	28,633	19,638	[illegible]
Oklahoma	1,769	1,384	[illegible]	[illegible]	14.8	9.0	[illegible]	[illegible]	[illegible]
Texas	2,760	2,760	2,926	25.0	[illegible]	16.0	[illegible]	45,920	[illegible]
Colorado	[illegible]	[illegible]	211	[illegible]	11.0	13.5	[illegible]	[illegible]	[illegible]
New Mexico	188	203	[illegible]	18.0	22.0	8.2	3,384	4,466	[illegible]
Arizona	[illegible]	52	59	23.0	30.0	35.0	[illegible]	1,560	2,065
California	125	115	115	31.0	31.6	33.0	3,875	3,634	3,795
United States	6,497	5,921	6,180	[illegible]	17.0	11.0	142,513	[illegible]	85,622

Wheat—Yield and Value per Acre

The Department of Agriculture has compiled the following statistics, showing the average yield of wheat, price per bushel and value per acre, in the principal wheat-growing states, for 50 years, by 10-year averages:

10-year average	Yield bus	Price bu	Value acre	Yield bus	Price bu	Value acre
	New York			**Pennsylvania**		
1876-1885	15.5	$1.14	$17.51	13.4	$1.11	$14.97
1886-1895	15.4	.86	13.16	13.6	.83	11.09
1896-1905	17.5	.84	14.58	15.8	.80	12.64
1906-1915	20.2	.98	19.94	17.5	.96	16.76
1916-1925	20.0	1.62	32.62	17.9	1.65	27.96
	Ohio			**Indiana**		
1876-1885	14.6	$1.02	$14.93	[illegible]	$ .96	$13.55
1886-1895	14.4	.74	10.44	[illegible]	.70	9.63
1896-1905	13.8	.78	10.70	[illegible]	.77	9.31
1906-1915	16.6	.95	15.68	[illegible]	[illegible]	14.61
1916-1925	16.5	1.59	26.88	15.3	[illegible]	24.40
	Michigan			**Wisconsin**		
1876-1885	16.1	$ .93	$15.82	12.2	$ .89	$10.72
1886-1895	14.8	.74	10.95	13.0	.68	9.76
1896-1905	13.8	.77	10.56	15.7	.71	11.09
1906-1915	16.7	.94	15.80	18.3	.89	16.45
1916-1925	17.1	1.57	26.89	18.4	1.60	25.44
	Minnesota			**Iowa**		
1876-1885	12.8	$ .79	$10.10	10.2	$ .77	$7.74
1886-1895	13.7	.64	8.59	12.9	[illegible]	8.03
1896-1905	13.3	.66	8.80	14.1	[illegible]	8.96
1906-1915	13.9	.87	[illegible]	18.0	.84	15.06
1916-1925	13.7	1.51	19.90	18.3	1.43	20.86
	Missouri			**North Dakota**		
1876-1885	11.4	$ .87	$9.94	....	..	[illegible]
1886-1895	12.8	.64	8.18	12.7	$ .57	$7.06
1896-1905	12.2	.71	8.64	12.2	.62	7.64
1906-1915	14.1	.89	12.69	11.9	.84	9.90
1916-1925	13.0	1.52	20.14	10.0	1.44	14.17
	South Dakota			**Nebraska**		
1876-1885	...	..	...	11.9	$ .69	$8.02
1886-1895	10.9	$ .58	$6.33	10.9	.66	6.16
1896-1905	11.1	.61	6.71	15.4	.59	8.98
1906-1915	11.8	[illegible]	9.71	[illegible]	.80	14.05
1916-1925	11.6	[illegible]	16.76	[illegible]	1.41	20.64
	Kansas			**Kentucky**		
1876-1885	13.9	[illegible]	$9.96	9.7	$ .95	$9.19
1886-1895	12.8	.60	7.85	[illegible]	[illegible]	8.09
1896-1905	13.7	[illegible]	8.60	11.2	[illegible]	8.79
1906-1915	[illegible]	[illegible]	11.64	[illegible]	[illegible]	13.09
1916-1925	[illegible]	1.46	19.19	11.4	1.64	18.75
	Illinois			**Texas**		
1876-1885	13.1	$ .91	$11.92	10.8	$1.03	$11.08
1886-1895	14.3	.69	9.80	10.4	.78	7.97
1896-1905	13.0	.74	9.50	12.3	.80	9.63
1906-1915	16.3	[illegible]	14.83	[illegible]	.98	12.17
1916-1925	16.8	1.53	25.96	11.8	1.57	18.70
	Oklahoma			**Montana**		
1886-1895	...	..	...	19.8	$ .73	$14.30
1896-1905	14.1	$ .65	$9.15	26.9	.67	17.93
1906-1915	12.5	[illegible]	10.54	25.3	.78	19.76
1916-1925	12.1	[illegible]	17.64	[illegible]	1.43	18.57
	Wyoming			**Colorado**		
1876-1885	..	..	...	*19.1	$*.93	*$17.64
1886-1895	..	..	...	19.2	.69	13.31
1896-1905	[illegible]	$ .73	$16.45	23.1	.67	15.45
1906-1915	26.5	.91	[illegible]	21.6	.91	19.80
1916-1925	18.3	1.36	25.67	15.3	1.38	20.64
	Idaho			**Washington**		
1886-1895	18.4	$ .69	$12.51	17.6	$ .62	$10.92
1896-1905	23.8	.63	15.00	23.0	.62	14.20
1906-1915	26.9	.72	19.46	22.4	.78	[illegible]
1916-1925	22.8	1.35	29.81	17.9	[illegible]	24.48
	Oregon			**California**		
1876-1885	17.5	$ .83	$14.62†	13.0	$1.00†	$13.01
1886-1895	16.7	[illegible]	10.88	12.4	.71	8.78
1896-1905	15.4	.64	[illegible]	11.3	.76	8.61
1906-1915	21.6	.81	17.66	[illegible]	.96	15.27
1916-1925	19.4	1.42	[illegible]	[illegible]	1.58	28.07

*Six-year average, 1880-1885. †Seven-year average in Oregon, eight-year average in California.

Kansas—Coarse Grain Crops

Corn, oats and rye harvested in Kansas, as compiled by the state department of agriculture, in bushels (000's omitted):

	Corn	Oats	Rye
1930	76,164	42,104	238
1929	106,802	28,249	238
1928	173,116	37,728	440
1927	[illegible]	34,338	664
1926	61,198	35,122	480
1925	104,861	33,623	386
1924	131,008	39,852	369
1923	125,681	34,653	381
1922	95,311	29,723	808
1921	98,434	40,941	1,240
1920	132,786	68,493	1,732
1919	63,083	41,974	3,468
1918	44,539	50,482	2,257
1917	106,167	60,612	1,293
1916	62,127	23,177	737
1915	142,833	34,394	1,832
1914	87,338	45,348	2,133
1913	18,420	28,125	568
1912	156,499	42,228	645
1911	105,047	32,052	250
1910	152,910	53,923	246
1909	147,005	25,588	255
1908	[illegible]	16,797	361
1907	145,268	14,104	253
1906	187,021	26,560	711
1905	190,519	29,962	1,114
1904	132,021	21,919	1,110
1903	169,359	28,025	2,062
1902	201,367	32,966	2,728
1901	42,605	20,806	2,335
1900	134,523	31,169	1,945
1899	225,183	26,046	1,754
1898	126,999	21,702	2,152
1897	152,140	23,431	1,661
1896	221,419	19,314	998
1895	201,457	31,664	1,655
1894	66,952	18,385	578
1893	160,353	28,925	2,062
1892	138,659	43,722	4,042
1891	139,363	39,904	5,442
1890	61,050	29,178	2,274

Baltimore Chamber of Commerce

President, Eugene Blackford; vice president, J. Adam Manger; secretary-treasurer, James B. H[illegible]; assistant secretary, Edward Bittrick; executive committee, Edward Netre, chairman, Gustav Herzer, Jr., vice chairman, John Merryman, T. Wilson Johnston, Thomas G. Hope.

United States—Hay Crop

Department of Agriculture estimates of the United States hay crop (tame), in tons (000's omitted):

1930	83,656	1920	87,856
1929	100,893	1919	86,359
1928	93,351	1918	76,660
1927	106,001	1917	83,308
1926	86,497	1916	91,192
1925	85,717	1915	85,920
1924	97,622	1914	70,071
1923	89,250	1913	64,116
1922	96,882	1912	72,691
1921	82,379	1911	54,916

Seeding in the Northwest

The Minneapolis Chamber of Commerce, by investigation, has ascertained that in—

SOUTH DAKOTA

Seeding commences the latter part of March, and becomes general about April 1. In the southeastern part, it is completed April 15-20, and in other parts about May 1.

MINNESOTA

In central and southern parts, seeding commences latter part of March, and becomes general about April 15. In the southern part of the state approximately 50 per cent of the seeding is completed April 15-20, and in the central part about 35 per cent at the same time. In the southern half, seeding is completed about May 1, and in other parts May 10.

NORTH DAKOTA

Seeding commences April 1 and becomes general in southern part April 18-20. Seeding becomes general throughout the state from April 20 to 28, and is completed about May 12.

United Grain Growers, Ltd.

The following figures show the earnings of the United Grain Growers, Ltd., Winnipeg, a company composed of Manitoba, Saskatchewan and Alberta farmers, for the purpose of engaging in the grain trade:

	Profits	Capital and surplus
1930* (Loss, $139,713)	......	$5,671,784
1929	493,372	5,567,635
1928	714,831	5,299,068
1927	720,265	5,085,068
1926	676,378	5,035,185
1925	418,574	4,671,413
1924	552,433	4,623,847
1923	532,171	4,231,869
1922 (Loss, $118,350)	......	4,072,675
1921	233,743	4,738,811
1920	463,676	4,596,632
1919	148,549	4,171,615
1918	441,760	4,068,245
1917	607,899	2,475,733
1916	672,804	1,823,943
1915	226,963	1,214,578
1914	151,080	995,025
1913	164,332	839,131
1912	121,614	705,955
1911	69,575	641,430
1910	95,663	394,111
1909	52,902	177,242
1908	30,190	24,017
1907	790	11,795
1906	.....	5,000

*Includes subsidiary companies.

Corn Millers' Package Differentials

The following schedule of package differentials has been issued by the American Corn Millers' Federation to take effect from Jan. 1, 1931:

COTTON—BEST GRADE

Weight, lbs		No. to bbl	Charge over bulk price for packing in buyers' sacks
100	Basis	[illegible]	..
98	$0.05 under	[illegible]	..
96	.15 under	[illegible]	..
50	.10 over	4	$0.05
49	Basis	4	[illegible]
48	.05 under	4	.05
25	.30 over	8	[illegible]
[illegible]	.05 over	8	[illegible]
20	.35 over	10	.10
12	.30 over	16	[illegible]
10	.60 over	20	[illegible]
[illegible]	.20 over	20	[illegible]
6	.70 over	[illegible]	[illegible]
5	1.10 over	40	[illegible]
2½	1.90 over	80	[illegible]

PAPER—WHITE BLUE LINED REGULAR

50	Basis	4	$0.05
49	$0.05 under	4	.05
48	.15 under	4	.05
25	.10 over	8	.05
[illegible]	.05 under	8	.05
20	.20 over	10	[illegible]
[illegible]	[illegible]	16	[illegible]
10	.40 over	20	.20
9	.05 under	20	.20
[illegible]	.45 over	32	[illegible]
5	.50 over	40	.35
3	1.10 over	64	.60
2½	1.50 over	80	.60
[illegible]	1.80 over	96	1.00
1½	2.30 over	128	1.00
[illegible]	3.70 over	200	1.25

JUTE

140	$0.10 under	[illegible]	..
100	Basis	2	..
98	.05 under	[illegible]	..
96	.15 under	2	..

WOOD

190	$0.55 over	1	..
196	.40 over	1	..

Enveloping one bale to the barrel—20c bbl—Paper.

Enveloping two bales to the barrel—20c bbl—Paper.

Enveloping four bales to the barrel—30c bbl—Paper.

Enveloping eight bales to the barrel—40c bbl—Paper.

Burlapping same as above.

UNITED STATES—CROPS AND VALUE

Department of Agriculture estimates of acreage, yield per acre and farm value Dec. 1 (000's omitted in total crop and acreage):

	Acres	Crop: Bus acre	Crop: Total bus	Value bu
Winter wheat—				
1930	35,608	15.7	604,337	$0.643
1929	[illegible]	14.4	576,213	1.066
1928	[illegible]	16.0	578,673	1.035
1927	37,723	14.7	552,747	1.167
1926	38,937	17.0	627,433	1.212
1925	[illegible]	12.9	401,734	1.479
1924	[illegible]	16.7	592,259	1.316
1923	39,518	14.5	571,959	.951
1922	42,358	13.8	586,878	1.047
1921	43,414	13.8	600,316	.951
1920	40,016	15.3	610,597	1.456
1919	[illegible]	15.1	760,377	2.105
1918	[illegible]	16.2	565,099	2.063
1917	27,257	15.1	412,901	2.028
1916	34,709	13.8	480,553	1.627
Spring wheat—				
1930	[illegible]	12.0	190,963	.643
1929	15,880	11.3	178,773	1.016
1928	22,059	15.2	336,203	.849
1927	21,061	15.4	326,627	1.023
1926	19,350	10.5	203,607	1.167
1925	21,021	13.1	274,695	1.324
1924	16,879	16.1	272,169	1.262
1923	20,141	11.2	235,422	.853
1922	19,959	14.1	280,720	.923
1921	20,282	10.6	214,559	.856
1920	[illegible]	10.5	222,430	1.304
1919	25,200	8.2	207,602	2.309
1918	22,051	16.2	356,339	2.009
1917	17,832	12.5	223,754	1.970
1916	17,607	8.8	155,765	1.528
All wheat—				
1930	59,153	[illegible]	850,965	.608
1929	61,464	13.2	809,176	1.042
1928	58,272	15.7	914,876	.970
1927	[illegible]	14.9	878,374	1.115
1926	[illegible]	14.8	831,040	1.198
1925	[illegible]	12.9	676,429	1.416
1924	52,535	16.5	864,428	1.299
1923	59,659	13.4	797,381	.923
1922	62,317	13.9	867,598	1.007
1921	[illegible]	12.8	814,905	.926
1920	61,143	13.6	833,027	1.437
1919	75,694	12.8	967,979	2.149
1918	[illegible]	15.6	921,438	2.042
1917	[illegible]	14.1	636,655	2.008
1916	[illegible]	12.2	636,318	1.603
Corn—				
1930	[illegible]	20.6	2,081,048	.663
1929	[illegible]	26.7	2,614,132	.781
1928	100,673	28.0	2,818,901	.752
1927	98,393	28.1	2,763,093	.751
1926	99,713	27.0	2,692,217	.642
1925	101,359	28.8	2,916,961	.674
1924	100,863	22.9	2,309,414	.982
1923	104,324	29.8	3,053,557	.726
1922	102,846	28.3	2,906,020	.658
1921	103,740	29.6	3,068,569	.423
1920	101,699	31.5	3,208,584	.670
1919	97,170	28.9	2,811,302	1.345
1918	104,467	24.0	2,502,665	1.365
1917	116,730	26.3	3,065,233	1.279
1916	105,296	24.4	2,566,927	.889
Oats—				
1930	41,598	33.7	1,402,026	.324
1929	40,043	30.7	1,228,369	.435
1928	41,734	34.5	1,439,407	.409
1927	41,941	28.2	1,182,594	.450
1926	44,177	28.2	1,246,848	.398
1925	44,872	33.2	1,487,550	.380
1924	42,110	35.7	1,502,529	.477
1923	40,981	31.9	1,305,883	.414
1922	40,790	29.8	1,215,803	.394
1921	45,495	23.7	1,078,341	.302
1920	42,491	35.2	1,496,281	.460
1919	40,359	29.3	1,184,030	.704
1918	44,349	34.7	1,538,124	.709
1917	43,553	36.6	1,592,740	.666
1916	41,527	30.1	1,251,837	.524

	Acres	Crop: Bus acre	Crop: Total bus	Value bu
Barley—				
1930	12,437	26.2	325,893	.396
1929	13,068	23.2	302,892	.550
1928	12,598	28.4	357,487	.552
1927	9,476	28.1	265,882	.678
1926	7,970	23.2	184,905	.575
1925	8,088	26.8	216,554	.589
1924	6,935	26.2	181,575	.741
1923	7,835	[illegible]	197,691	.541
1922	7,317	[illegible]	182,068	.525
1921	7,414	[illegible]	154,946	.419
1920	7,600	[illegible]	189,332	.713
1919	6,720	22.0	147,608	1.206
1918	9,740	26.3	256,225	.917
1917	8,933	23.7	211,759	1.137
1916	7,757	23.5	182,309	.881
Rye—				
1930	3,722	13.5	50,234	.416
1929	3,331	12.6	41,911	.864
1928	3,480	12.5	43,366	.860
1927	3,648	15.9	58,164	.853
1926	3,578	11.4	40,795	.834
1925	3,974	11.7	46,456	.782
1924	4,150	15.8	65,466	1.065
1923	5,171	12.2	63,077	.650
1922	6,672	15.5	103,362	.686
1921	4,528	13.6	61,675	.697
1920	4,409	13.7	60,490	1.268
1919	6,307	12.0	75,483	1.332
1918	6,391	14.2	91,041	1.516
1917	4,317	14.6	62,933	1.660
1916	3,213	15.2	48,862	1.221
Buckwheat—				
1930	658	13.6	8,975	.845
1929	729	15.7	11,474	.977
1928	749	17.6	13,148	.875
1927	810	19.5	15,755	.835
1926	694	18.3	12,676	.882
1925	747	18.7	13,994	.888
1924	745	17.9	13,357	1.026
1923	739	18.9	13,965	.931
1922	764	19.1	14,564	.886
1921	680	20.9	14,207	.812
1920	701	18.7	13,142	1.283
1919	700	20.6	14,399	1.461
1918	1,027	16.5	16,905	1.665
1917	924	17.3	16,022	1.600
1916	828	14.1	11,662	1.121
Flaxseed—				
1930	3,946	6.0	23,682	1.398
1929	3,050	5.6	17,049	2.842
1928	2,675	7.4	19,928	2.012
1927	2,837	[illegible]	25,847	1.860
1926	2,907	6.7	19,335	1.94
1925	3,078	7.3	22,424	2.265
1924	3,469	[illegible]	31,547	2.274
1923	2,014	8.5	17,060	2.107
1922	1,113	9.3	10,375	2.115
1921	1,108	7.2	8,029	1.451
1920	1,757	6.1	10,774	1.767
1919	1,503	4.8	7,256	4.383
1918	1,910	7.0	13,369	3.401
1917	1,984	4.6	9,164	2.960
1916	1,474	9.7	14,296	2.49
Potatoes—				
1930	3,394	106.4	361,090	.904
1929	3,338	107.0	359,048	1.309
1928	3,837	121.3	465,350	.539
1927	3,476	115.9	402,741	.965
1926	3,505	113.5	354,328	1.414
1925	3,092	104.6	323,465	1.868
1924	3,327	126.7	421,585	.625
1923	3,816	109.0	416,105	.781
1922	4,307	105.3	453,396	.581
1921	3,941	91.8	361,659	1.101
1920	3,657	110.3	403,296	1.145
1919	3,542	91.2	322,867	1.595
1918	4,295	95.9	411,860	1.193
1917	4,384	100.8	442,108	1.228
1916	3,565	80.5	286,953	1.461

DISPOSITION OF FEED CROPS ON FARMS

Percentages of farm consumption in the United States of feed crops by the several kinds of live stock, as estimated by several thousand voluntary crop reporters, covering the actual amount fed to each class of stock:

	Corn	Oats	Barley	Rye	Wheat	Hay	Silage	Millfeed
To horses	24.5	67.8	17.7	26.5	[illegible]	44.6	1.7	5.6
To cattle	19.2	13.2	11.9	5.5	[illegible]	51.4	96.9	44.2
To swine	50.3	10.8	59.9	53.4	29.1	[illegible]	2.2	41.5
To sheep	[illegible]	2.3	...	...	...	3.8	1.1	3.7
To poultry	5.1	5.9	10.5	14.6	59.1	...	.1	5.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Wheat Yield per Acre

Yield of wheat per acre in various countries, as reported by the United States Department of Agriculture on the basis of official reports, in bushels:

	U. States	Germany	Austria	Hungary	France	U. Kgdom*
1930	14.4	31.6	22.7	18.0	17.5	†30.1
1929	13.2	31.1	22.4	20.2	25.1	35.9
1928	15.7	33.2	26.1	23.9	21.7	34.1
1927	14.9	27.9	23.7	19.1	21.1	32.6
1926	14.8	24.1	18.9	20.2	17.9	30.9
1925	12.9	30.8	22.0	20.3	23.9	34.1
1924	16.5	24.6	17.6	14.7	20.6	33.1
1923	13.4	29.1	18.7	20.6	20.2	32.9
1922	13.9	21.2	16.2	15.5	18.6	31.5
1921	12.8	30.3	17.3	18.3	24.3	36.4
1920	13.6	24.3	14.6	[illegible]	18.8	28.7
1919	12.8	24.8	13.8	...	16.0	29.2
1918	15.6	26.4	12.9	...	20.5	33.3
1917	14.1	22.5	14.6	...	13.0	30.6
1916	12.2	27.3	13.9	...	16.5	29.1
1915	17.0	28.6	17.6	...	16.4	31.7
1914	16.6	29.6	22.9	...	18.9	32.8
1913	15.2	35.1	19.9	19.6	19.8	31.7
1912	15.9	33.7	22.4	19.3	20.6	29.1
1911	12.5	30.6	19.5	20.7	20.3	33.0
1910	13.9	29.6	19.2	19.3	15.6	30.5
1909	15.8	30.5	19.9	14.2	22.0	33.8
1908	14.0	29.7	21.0	17.5	19.5	[illegible]
1907	14.1	29.6	18.0	14.9	23.5	34.0
1906	15.8	30.3	20.3	21.8	20.4	33.7
1905	14.7	28.5	19.6	18.5	20.8	32.9

*Excluding Irish Free State from 1923 on.
†North Ireland not included.

Spring Wheat Flour Yields

The Minnesota state experimental mill has issued the following summary report showing the percentages of dockage, loss in cleaning and the percentages of flour and feed obtained from grinding dark northern wheat of grades ranging from No. 1 to No. 4 in a series of experimental runs:

DARK NORTHERN WHEAT

Grade number	1	2	3	4
No. of samples	[illegible]	[illegible]	11	5
Dockage, per cent	[illegible]	2.8	[illegible]	4.8
Loss in cleaning, per cent	4.60	5.41	5.68	6.69
Weight per bu, lbs.	59.1	57.1	55.5	53.8
Moisture before tempering	11.7	12.6	12.8	11.8
Yields, per cent—				
Straight flour	74.00	72.21	70.88	68.82
Red dog	2.67	2.68	4.56	4.29
Standard middlings	12.70	14.25	11.88	15.82
Bran	11.96	11.61	12.91	12.06
Total feed	27.33	28.54	29.34	32.16
Value of products per bu—				
Flour	$1.517	$1.480	$1.453	$1.411
Feeds	.170	.177	.182	.200
Totals	$1.687	$1.657	$1.635	$1.611

In calculating value of products the following commercial values were used:

	Price	Loss for sacks	Price per lb
Flour, bbl	$6.975	$ .28	$.03416
Red dog, ton	27.500	1.20	.01316
Standard middlings, ton	20.930	1.20	.00986
Bran, ton	21.270	1.20	.01002

United Kingdom—Landing and Storage Charges on Wheat and Flour

LONDON

	Per ton (2,240 lbs)
WHEAT—	
Working out charges	2s 8d
Landing charges, including 14 days' free storage	8s 6d
Storage charges, per week	0s 6¾d
FLOUR—	
Port dues	0s 6d
London clause charges for delivery to lighters from the quay where ship discharges	1s 3d
Landing charges when flour taken to a public wharf	9s 0d
Storage charges per week after 14 days' free rent	0s 6d
Delivery charges (cartage)	5s 0d

LIVERPOOL

	Per ton (2,240 lbs)
FLOUR—	
Dock and town dues	3s 10d
Master porterage	3s 5d
Cartage	3s 0d
Delivery and storage in public warehouse	3s 6d
Warehouse rent, per week	0s 4d
Storage in railroad company's warehouse for dispatch by rail	0s 8d
Rent in railroad company's warehouse per week	0s 2d
WHEAT—	
Unloading, landing and storage	6s 9½d

N. B. Very little wheat is stored by merchants. Millers who take wheat overside in barges or from steamers alongside save some of these charges.

GLASGOW

WHEAT—	Per ton (2,240 lbs)
Clyde dues	1s 10½d
Landing and delivering (bulk)	1s 7d
Landing and delivering in bags	2s 1d
Watching (less 20% per ton)	0s 3d
Cartage to store in bags	1s 6d
	Per 100 bags of 240 lbs
Receiving	18s 9d
Delivering, without weighing	12s 6d
Delivering with weighing	20s 10d
Warehouse rent per week	2s 11d
FLOUR—	Per ton (2,240 lbs)
Clyde dues, landing, delivering and watching	5s 0d
Cartage to store, receiving and delivering	4s 2d
Warehouse rent per week	0s 3½d

DUBLIN

	Per ton (2,240 lbs)
WHEAT—	
Landing dues (plus 12½%)	0s 6d
FLOUR—	
Landing dues (plus 12½%)	0s 8d
Storage in transit sheds	2s 11d

BELFAST

FLOUR—	
Landing charges	2s 9d

Wet Corn

Table showing the "reduction in percentage of moisture" and the corresponding "loss in weight" which occurs in drying corn with excessive moisture content:

When original moisture content is, per ct.	15.5% Maximum limit for No. 2 corn: Reduction in moisture content, per cent	15.5%: Shrinkage in weight, per cent	17.5% Maximum limit for No. 3 corn: Reduction in moisture content, per cent	17.5%: Shrinkage in weight, per cent
34.0	18.5	21.90	16.5	20.00
[illegible]	18.0	21.30	16.0	19.39
33.0	17.5	20.82	15.5	18.79
32.5	17.0	20.13	15.0	18.18
32.0	16.5	19.53	14.5	17.58
31.5	16.0	18.94	14.0	16.97
31.0	15.5	18.35	13.5	16.36
30.5	15.0	17.75	13.0	15.76
30.0	14.5	17.16	12.5	15.15
29.5	14.0	16.57	12.0	14.55
29.0	13.5	15.98	11.5	13.94
28.5	13.0	15.39	11.0	[illegible]
28.0	12.5	14.80	10.5	12.73
27.5	12.0	14.20	10.0	[illegible]
27.0	11.5	13.61	9.5	11.52
[illegible]	11.0	13.02	9.0	10.91
[illegible]	10.5	12.43	8.5	10.30
[illegible]	10.0	11.84	8.0	9.70
25.0	9.5	11.25	7.5	9.09
24.5	9.0	10.65	7.0	8.48
24.0	8.5	10.06	6.5	7.88
23.5	8.0	9.47	6.0	7.27
23.0	7.5	8.88	5.5	[illegible]
22.5	7.0	8.29	5.0	[illegible]
22.0	6.5	7.70	[illegible]	[illegible]
21.5	6.0	7.10	[illegible]	[illegible]
21.0	5.5	6.51	[illegible]	[illegible]
20.5	5.0	5.92	3.0	[illegible]
20.0	4.5	5.33	2.5	[illegible]
19.5	4.0	4.74	2.0	[illegible]
19.0	3.5	4.15	1.5	[illegible]
18.5	3.0	3.55	1.0	[illegible]
18.0	2.5	2.97	.5	[illegible]
17.5	2.0	2.37	0.0	.00

Port of London

The port of London is owned and controlled by a body known as the Port of London Authority. This body consists of a chairman, vice chairman, 14 elected members and 10 specially appointed members. It is independent and self-supporting, its revenue being derived from dues on goods and ships entering the port of London and certain other levies. There are eight groups of docks under the control of the Port of London Authority, viz: St. Katharine Docks, London Docks, Surrey Commercial Docks, West India Dock, Millwall Dock, East India Dock, Royal Victoria and Albert Docks and Tilbury Docks. The Millwall Dock is mainly used for the discharge of grain, the Surrey Commercial Docks for flour. The headquarters of the Port of London Authority are in Trinity Square, London.

World's Wheat Harvest

Significant of the universal use of wheat is the fact that in every month of the year there is a wheat harvest taking place in some part of the world. The months, together with the countries in which wheat is being harvested, are shown below:

January—Argentina, Uruguay, Chile and Australasia.

February—Upper Egypt and southern India.

March—Egypt, Tripoli, Morocco and India.

April—Persia, Mesopotamia, Arabia, Asia Minor, Syria, Cyprus and Mexico.

May—Algeria, Tunis, central and southern Asia, South Carolina, Georgia, Alabama and Louisiana.

June—Italy, Spain, Portugal, Greece, Turkey, southern France, North Carolina, Georgia, Arkansas, Texas, Virginia, Indiana, Illinois, Kentucky, Tennessee, Oklahoma, Missouri and Kansas.

July—France, Austria, Hungary, Roumania, Bulgaria, Czechoslovakia, Switzerland, southern Russia, southern Germany, southern England, New York, Pennsylvania, Ohio, Indiana, Illinois, Michigan, Missouri, Nebraska, Kansas and Oregon.

August—Southern Canada, Russia, the United Kingdom, Germany, Belgium, Holland, Denmark, Minnesota, North Dakota, South Dakota, Montana and Washington.

September — Sweden, Norway, Siberia, northern Russia, Canada, North Dakota and Montana.

October—Sweden, Norway, Finland, Scotland, northern Russia, northern Canada and Alaska.

November—Peru and South Africa.

December—Burma and Argentina.

Winter Wheat—Sowing and Harvesting

Department of Agriculture estimates of the normal period of sowing and harvesting winter wheat:

WINTER WHEAT SOWING

State—	Beginning	General	Ending
Montana	Aug. 1	Aug. 20	Sept. 10
Washington	Aug. 20	Sept. 12	Oct. 1
Pennsylvania	Sept. 2	Sept. 14	Oct. 4
Michigan	Sept. 3	Sept. 15	Sept. 26
Iowa	Sept. 4	Sept. 18	Sept. 27
New York	Sept. 4	Sept. 14	Oct. 2
Wisconsin	Sept. 5	Sept. 17	Sept. 25
Nebraska	Sept. 5	Sept. 21	Oct. 6
Indiana	Sept. 8	Sept. 23	Oct. 7
Missouri	Sept. 9	Sept. 24	Oct. 10
Oregon	Sept. 10	Oct. 1	Oct. 15
Ohio	Sept. 11	Sept. 26	Oct. 10
Kansas	Sept. 11	Sept. 24	Oct. 24
Illinois	Sept. 12	Sept. 24	Oct. 8
Oklahoma	Sept. 13	Sept. 28	Oct. 29
West Virginia	Sept. 15	Oct. 1	Oct. 15
Maryland	Sept. 18	Oct. 5	Oct. 20
Kentucky	Sept. 19	Oct. 3	Oct. 25
California	Sept. 20	Nov. 1	Dec. 15
Virginia	Sept. 20	Oct. 10	Oct. 31
Tennessee	Sept. 22	Oct. 11	Nov. 6
Arkansas	Sept. 22	Oct. 20	Nov. 14
Texas	Sept. 30	Oct. 10	Nov. 18
South Carolina	Oct. 13	Oct. 26	Dec. 1
North Carolina	Oct. 14	Nov. 5	Nov. 15
Georgia	Oct. 11	Aug. 27	Nov. 28

WINTER WHEAT HARVESTING

State—	Beginning	General	Ending
Texas	May 29	June 9	June 22
Georgia	June 1	June 9	June 21
South Carolina	June 3	June 13	June 24
Arkansas	June 6	June 14	June 24
Tennessee	June 10	June 20	June 30
North Carolina	June 11	June 19	June 26
Oklahoma	June 12	June 23	July 7
California	June 15	July 1	Aug. 1
Kentucky	June 17	June 24	July 3
Virginia	June 20	June 26	July 3
Missouri	June 20	June 27	July 6
Maryland	June 23	June 28	July 7
Illinois	June 24	June 30	July 7
West Virginia	June 25	July 2	July 10
Indiana	June 26	July 3	July 10
Kansas	June 26	July 4	July 14
Ohio	June 29	July 6	July 13
Iowa	July 3	July 11	July 15
Pennsylvania	July 4	July 10	July 18
Nebraska	July 6	July 13	July 21
New York	July 10	July 19	July 28
Washington	July 10	Aug. 1	Aug. 10
Oregon	July 11	July 25	Aug. 13
Michigan	July 15	July 22	July 31
Wisconsin	July 16	July 22	July 28
Montana	July 16	Aug. 1	Aug. 15

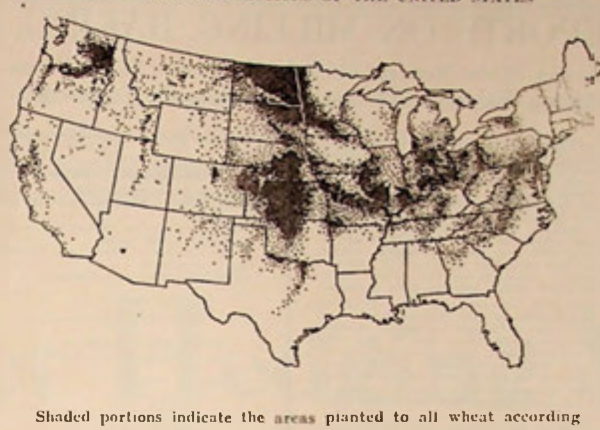
Mean length of sowing season, 34 days.
Mean length of harvesting season, 17 days.

United States—Winter Wheat Forecasts

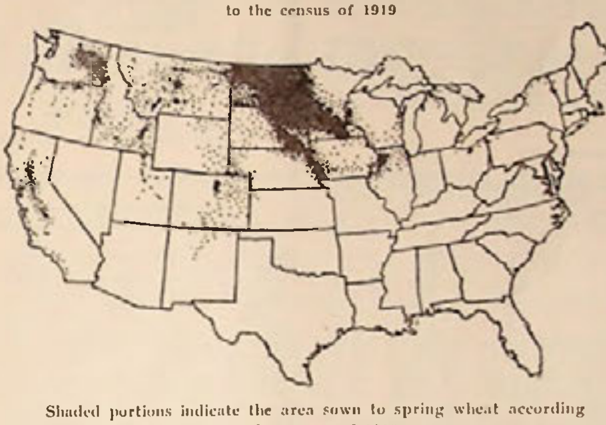
Comparative estimates of the winter wheat crops, as issued by the Department of Agriculture, since 1912, in bushels (000,000's omitted):

	April	May	June	July	Aug.	Final
1930	...	525	632	558	567	601
1929	...	595	622	582	568	578
1928	...	480	512	544	579	579
1927	...	594	637	579	552	553
1926	...	549	543	568	626	627
1925	474	445	407	404	416	402
1924	519	553	509	543	559	592
1923	572	578	581	586	568	572
1922	573	584	607	569	541	587
1921	621	629	578	573	543	600
1920	484	484	503	518	532	611
1919	837	899	892	838	715	760
1918	560	572	586	557	555	565
1917	430	366	373	402	417	418
1916	495	499	469	489	454	482
1915	619	692	675	668	656	674
1914	640	630	639	652	675	685
1913	563	513	492	483	510	524
1912	493	370	363	358	359	400
Average	565	556	548	551	546	559

WHEAT GROWING SECTIONS OF THE UNITED STATES

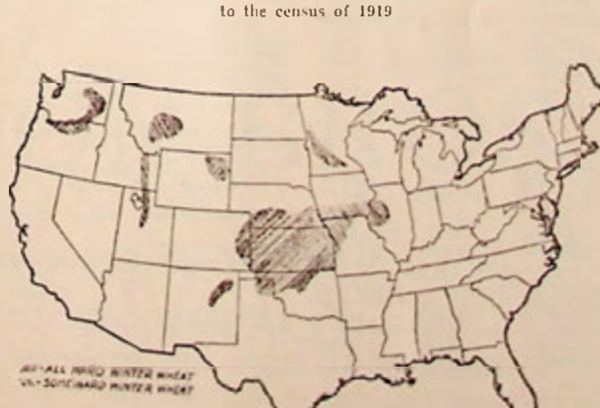


Shaded portions indicate the areas planted to all wheat according to the census of 1919



Shaded portions indicate the area sown to spring wheat according to the census of 1919

Shaded portions indicate the area sown to winter wheat according to the census of 1919



Indicating the proportion of winter wheat that is sown which is of the hard variety

When Crops Are Harvested

(Usual percentage of crops harvested in months indicated, based upon estimates of the Bureau of Crop Estimates:

	June	July	Aug.	Sept.
Wheat—				
New York	..	78	20	2
Pennsylvania	3	90	7	..
Virginia	68	31	1	..
Ohio	15	81	4	..
Indiana	34	63	3	..
Illinois	35	59	6	..
Michigan	..	75	23	2
Minnesota	..	21	76	3
Missouri	61	38	1	..
North Dakota	..	3	75	22
South Dakota	..	31	66	3
Nebraska	3	92	5	..
Kansas	19	81	..	..
Oklahoma	70	29	..	..
Texas	70	23	..	..
Montana	..	17	60	23
Washington	..	26	55	19
United States	22.0	42.3	28.4	6.5
Oats—				
New York	..	20	70	10
Pennsylvania	..	31	64	5
Ohio	..	59	41	..
Indiana	2	72	26	..
Illinois	4	80	16	..
Wisconsin	..	31	67	2
Minnesota	..	35	62	3
Iowa	1	80	19	..
North Dakota	..	8	70	22
South Dakota	..	43	55	2
Nebraska	1	79	20	..
Kansas	27	73	..	..
Oklahoma	60	39	..	..
Texas	64	34	1	..
Montana	..	9	61	30
United States	7.9	52.9	31.2	[illegible]
Barley—				
Wisconsin	..	67	33	..
Minnesota	..	69	29	2
North Dakota	..	25	68	7
South Dakota	..	70	28	2
California	33	48	18	1
United States	6.2	58.6	33.9	1.3
Rye—				
New York	1	76	22	1
Pennsylvania	5	87	8	..
Indiana	34	59	7	..
Michigan	1	76	23	..
Wisconsin	2	78	20	..
Minnesota	4	84	12	..
North Dakota	..	65	35	..
South Dakota	1	82	17	..
Nebraska	9	85	6	..
United States	11.2	71.5	16.5	0.7
Buckwheat—				
New York	..	..	6	69
Pennsylvania	..	..	3	68
Michigan	..	..	4	44
United States	..	0.3	6.7	64.9
Flaxseed—				
Minnesota	..	6	20	41
North Dakota	..	..	25	42
South Dakota	..	4	27	51
Montana	..	..	30	29
United States	0.1	2.6	31.5	36.5
Rice—				
Louisiana	..	1	22	45
Texas	..	2	21	36
Arkansas	..	..	1	28
California	..	..	..	5
United States	..	0.9	15.2	31.0

Texas harvests 7 per cent of its wheat crop in May, and Oklahoma 2 per cent; [illegible] of 1 per cent of the country's wheat crop is harvested in May, and 3-10 of 1 per cent in October. One per cent of the country's oats crop (11 per cent of the Texas crop and 1 per cent of Oklahoma's) is harvested in May, and 2-10 of 1 per cent in October. Of the barley crop, 1.2 per cent (5 per cent of California's crop) is harvested in May, and 2-10 of 1 per cent in October. Of the rye crop, 1-10 of 1 per cent is harvested in May, and 7-10 of 1 per cent (1 per cent of New York's crop) in October. Of the buckwheat crop, 28.7 per cent is harvested in October and 8-10 of 1 per cent in November. Of the flax crop, 5.3 per cent is harvested in October. Of the rice crop, 33.8 per cent is harvested in October, 14.5 per cent in November, and 2.4 per cent in December.

United States—Spring Wheat Forecasts

Comparative estimates of the spring wheat crops, as issued by the Department of Agriculture, since 1912, in bushels (000,000's omitted):

	June	July	Aug.	Sept.	Oct.	Final
1930	...	250	223	239	212	217
1929	...	251	[illegible]	[illegible]	224	[illegible]
1928	...	257	213	223	225	223
1927	...	274	238	208	214	219
1926	...	260	213	212	213	205
1925	[illegible]	276	262	284	292	275
1924	184	197	[illegible]	247	266	272
1923	[illegible]	[illegible]	225	221	214	225
1922	247	247	263	276	268	281
1921	251	225	212	209	196	[illegible]
1920	[illegible]	291	261	237	218	222
1919	343	322	225	265	203	208
1918	343	333	322	342	363	356
1917	233	[illegible]	236	250	243	233
1916	[illegible]	[illegible]	193	156	162	158
1915	273	[illegible]	307	322	345	352
1914	262	274	236	[illegible]	216	206
1913	252	218	232	[illegible]	242	240
1912	265	271	290	300	229	330
Average	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

OFFICIAL CENSUS REPORTS ON MILLING, BAKING, OTHER INDUSTRIES

A Section Giving Summaries of the Reports Made by the United States Bureau of the Census on the Milling, Baking and Other Industries in the Years 1909-1927.

The Department of Commerce announces that according to data collected at the biennial census of manufactures, taken in 1928, establishments engaged primarily in the manufacture of flour and meal from wheat, corn and other grains reported for 1927 a total production valued at $1,148,760,360, a decline of 11.5 per cent compared with the report for 1925, the preceding census year. The establishments classified in this industry are those engaged primarily in the manufacture of flour and meal from wheat, corn and other grains. Mills whose principal products are the result of further manufacturing processes are classified elsewhere—for example, those making cereal breakfast foods are classified in the "Cereal preparations" industry. Although some of these manufacturers of food preparations purchase certain grain-mill products and put them through further manufacturing processes, others use grain as their basic raw material and perform all the processes necessary to convert it into the finished product. The "Flour and other grain-mill products" industry does not, therefore, embrace all mills which use grain as material.

At this census, as at the censuses for 1925, 1923 and 1921, the canvass was restricted to merchant mills—that is, establishments engaged in purchasing and milling grain and selling the products made therefrom. At the census for 1919 (the last decennial census) the canvass covered both merchant mills and custom mills (gristmills), but in the 1927 report only merchant mills are considered. Some mills reported both merchant and custom business, and all such mills have been treated as merchant mills, even though their custom work constituted more than half their total business. The total value of products of such mills, of which the value of flour, meal, etc., ground on a custom basis forms a part, is included in the value of products for the industry, which thus represents somewhat more than the value of the strictly merchant products.

An indication of the relative importance of merchant mills and custom mills is afforded by the fact that the products of the latter, as reported for 1919, contributed only 4.4 per cent of the total value of products of both merchant and custom mills.

The item "Other products (not normally belonging to the industry)" covers a miscellaneous group of cereal and noncereal products, such as meal made from grain other than corn, cereal breakfast preparations, prepared feeds for animals and fowls, corn oil, etc., some of which are made primarily by establishments classified in other industries. Data for such commodities made as secondary products in the "Flour and other grain-mill products" industry are included in order to present complete product statistics for this industry.

SUMMARY OF MILLING CENSUSES

The following statistics are taken from the report of the 1927 census and from those for previous years. The figures relate only to merchant mills, excluding all mills doing a purely custom business. Furthermore, since 1921, no statistics are included for establishments having products below $5,000 in value in one year.

Year or period—	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel and power	Value of products	Value added by manufacture	Horse power
1927	4,035	29,982	$37,559,472	$972,711,040	$1,148,760,360	$176,049,320	641,608
1925	4,413	31,988	39,700,239	1,125,378,941	1,298,014,788	172,636,847	669,910
1923	5,232	35,194	41,704,297	885,971,543	1,048,577,459	162,605,916	709,856
1921	6,485	35,378	43,142,734	993,809,720	1,179,740,131	185,930,411	‡.....
1919	10,708	45,481	60,888,383	1,799,180,987	2,052,434,385	253,253,398	875,464
1914	10,788	‡....	24,693,162	752,270,021	877,679,709	125,409,688	822,384
1909	11,691	‡....	21,464,386	767,576,479	883,584,405	116,007,926	863,584
PER CENT OF INCREASE OR DECREASE (—)							
1925-27	—8.6	—6.3	—5.4	—13.6	—11.5	2.0	—4.2
1923-25	—15.7	—9.1	—4.8	27.0	23.8	6.2	—5.6
1921-27	—22.9	—14.8	—9.9	9.8	9.6	—5.3	—9.6
1919-27	—62.3	—34.1	—26.2	—45.9	—44.0	—30.5	—26.7

‡Not called for on schedule.

CENSUS REPORT ON MILLING ACTIVITY, 1921 TO 1927

GRAIN GROUND

Kind, in bushels—	1927	1925	1923	1921
Wheat	544,053,688	530,592,597	538,312,078	521,233,509
Corn	92,693,486	105,354,662	126,193,805	122,168,474
Oats	27,760,795	45,817,858	49,310,318	41,079,652
Rye	9,254,712	8,126,301	9,245,841	7,707,541
Barley	8,180,430	*.....	*.....	*.....
Buckwheat	2,760,606	2,408,360	2,937,835	3,686,747
Other and mixed grains	3,804,639	15,658,139	18,234,636	17,717,702

*Not reported separately; included in figure for "Other and mixed grains."

PRODUCTS

Kind—	1927	1925	1923	1921
1. Flour and other grain-mill products industry, all products, total value	$1,148,760,360	$1,298,014,788	$1,048,577,459	$1,179,740,131
2. Flour, meal, feed, etc.	1,080,318,514	1,211,366,334	977,529,096	1,168,228,785
3. Other products (not normally belonging to the industry)	68,441,846	86,648,454	71,048,363	11,511,346
4. Flour, meal, feed, etc., made as secondary products in other industries	35,179,935	24,624,986	5,997,789	5,596,421
Flour, meal, feed, etc., all industries: Aggregate value (sum of 2 and 4)	$1,115,498,449	$1,235,991,320	$983,526,885	$1,173,825,206
Wheat flour—Total barrels	118,132,027	114,689,930	114,438,544	110,846,277
Total value	$820,273,389	$910,169,949	$663,302,341	$871,731,990
White flour—Barrels	113,495,922	*.....	*.....	*.....
Value	$783,099,393	*.....	*.....	*.....
Graham and whole-wheat flour—Barrels	762,034	*.....	*.....	*.....
Value	$5,155,668	*.....	*.....	*.....
Prepared flour†—Barrels	3,874,071	2,529,383	*.....	*.....
Value	$32,018,328	$22,810,591	*.....	*.....
Rye flour—Barrels	1,724,429	1,598,058	1,624,726	1,334,883
Value	$9,299,370	$9,152,049	$8,713,987	$8,907,929
Corn flour—Barrels (200 lbs.)	367,839	‡.....	*.....	*.....
Value	$1,926,975	‡.....	.....	*.....
Buckwheat flour—Pounds	44,559,407	47,872,669	49,180,691	65,438,319
Value	$1,673,778	$1,913,003	$1,919,785	$2,669,600
Other flour—Pounds	2,393,602	.....	.....	.....
Value	$205,734	.....	.....	.....
Corn meal—Barrels (200 lbs.)	9,499,298	**9,707,136	**12,155,140	**10,932,156
Value	$42,912,600	**$48,262,855	**$62,011,228	**$39,704,222
Bran and middlings—Tons	4,638,332	4,626,736	4,187,811	4,041,084
Value	$142,193,600	$137,897,345	$116,011,378	$105,537,778
Feed, screenings, etc.—Tons	2,748,516	3,430,057	3,922,369	††4,895,838
Value	$97,012,997	$128,606,119	$136,570,377	††$139,777,266
Undistributed, value	.....	.....	††$5,997,789	††$5,596,421

*Not reported separately. †Figures shown in the table are for prepared flour made in the "Flour and other grain-mill products" industry only; in addition, prepared flour is produced to some extent by establishments in other industries, principally the "Cereal preparations" industry. The total production of prepared flour in all industries was as follows: For 1927, 4,493,256 bbls. valued at $38,186,446; for 1925, 3,439,167 bbls. valued at $32,677,359. ‡Included in figure for "Corn meal." **Includes data for "Corn flour." ††Includes quantity and value of prepared feeds for stock and poultry, not separately reported. ††Value of secondary products of other industries which cannot be distributed by class or kind.

PRELIMINARY REPORT—CENSUS OF MILLING INDUSTRY FOR 1929

Number of establishments	3,873
Wage earners (average for year)	26,463
Wages	$34,652,336
Cost of materials, containers, fuel, and purchased electric current	$851,699,822
Products, total value	$1,034,525,651
Flour and other grain mill products	$970,946,642
Other products	$63,579,012
Value added by manufacture	$182,826,532

Products by Kind

	Quantity	Value
Flour and grain mills products		$1,011,568,466
Made in the industry		$970,946,642
Made as secondary products in other industries		$43,621,824
Wheat flour, bbls	117,369,505	$720,191,184
White, bbls	110,595,684	$676,129,765
Graham, bbls	487,609	$2,862,766
Whole wheat, bbls	741,721	$4,681,346
Semolina, bbls	2,959,722	$16,869,342
Prepared flour, bbls	2,583,769	$19,621,973
Rye flour, bbls	1,676,000	$9,178,649
Corn flour, bbls	589,073	$3,120,580
Buckwheat flour, lbs	37,383,249	$1,533,694
Other flour, lbs	10,109,136	$588,600
Corn meal, bbls	10,058,240	$49,737,778
Bran and middlings, tons	4,585,416	$138,873,613
Feed, not including prepared feeds made from purchased materials, screenings, etc., tons	2,465,127	$91,311,338

CENSUS REPORT—COMPARATIVE SUMMARIES, 1909 TO 1927

MERCHANT MILLS—COMPARATIVE SUMMARY: 1927, 1925, 1923, 1921 AND 1919

	1927	1925*	1923*	1921*	1919
Number of establishments	4,035	4,413	5,232	6,485	10,708
Persons engaged	43,730	46,567	53,174	54,663	76,769
Proprietors, firm members	3,602	3,792	5,146	6,426	11,937
Salaried employees	10,146	10,787	12,835	12,759	18,351
Wage earners (average number)	29,982	31,988	35,194	35,378	45,481
Primary horse power	641,608	669,910	709,856	†.....	875,405
Capital	†.....	†.....	†.....	†.....	$801,624,507
Salaries and wages	$59,790,536	$54,692,950	$68,035,066	$68,817,712	82,901,413
Salaries	22,231,064	22,992,711	26,330,769	25,674,978	32,013,030
Wages	37,559,472	39,700,239	41,704,297	43,142,734	50,888,383
Paid for contract work	†.....	†.....	†.....	310,041	942,256
Rent and taxes	†.....	†.....	†.....	†.....	19,263,367
Cost of materials	972,711,040	1,125,378,941	885,971,543	993,809,720	1,799,180,987
Value of products	1,148,760,360	1,298,014,788	1,048,577,459	1,179,740,131	2,052,434,385
Value added by manufacture	176,049,320	172,636,847	162,605,916	185,930,411	253,253,398

*These figures do not include establishments each reporting products under $5,000 in value. †Information not called for in schedule of census. ‡Included in cost of materials.

MERCHANT AND CUSTOM MILLS—COMPARATIVE SUMMARY: 1919 AND 1909

	Total		Merchant mills		Custom mills	
	1919	1909	1919	1909	1919	1909
No. establishments	21,135	23,652	10,708	11,691	10,427	11,961
Persons engaged	90,597	88,849	76,769	66,054	14,828	22,795
Proprietors and firm members	24,386	30,204	11,937	14,570	12,449	15,634
Salaried employees	18,696	12,178	18,351	12,031	245	147
Wage earners (average number)	47,515	46,467	45,481	39,453	2,034	7,014
Primary horsepwr.	1,095,299	1,126,347	876,405	853,584	218,894	272,763
Capital	$830,495,722	$370,410,289	$801,624,507	$349,161,779	$28,871,215	$21,248,510
Salaries and wages	$84,856,230	$35,167,693	$82,901,413	$33,981,153	$1,954,817	$1,186,540
Salaries	$32,187,911	$12,564,695	$32,013,030	$12,616,767	$174,881	$147,928
Wages	$52,668,319	$22,603,098	$50,888,383	$21,464,386	$1,779,936	$1,138,712
Paid for contract work	$960,709	*.....	$942,256	$669,271	$18,543	*.....
Rent and taxes	$19,673,005	*.....	$19,263,367	$2,754,128	$409,638	*.....
Cost of materials	$1,878,138,382	$813,891,347	$1,799,180,987	$767,576,479	$78,957,396	$46,314,868
Value of products	$2,147,218,913	$938,699,958	$2,052,434,385	$883,584,405	$94,784,528	$55,115,553
Value added by manufacture	$269,080,531	$124,808,611	$253,253,398	$116,007,926	$15,827,133	$8,800,685
Grain ground, bus.	888,305,073	872,950,743	830,026,293	806,247,961	58,279,680	66,702,782

*Figures for 1909 not available.

CENSUS REPORT—POWER AND FUEL

Primary power used by merchant flour mills in the United States, as reported by the Bureau of Census:

Type—	1927 No.	1927 Capacity h-p	1925 No.	1925 Capacity h-p	1923 No.	1923 Capacity h-p	1919† No.	1919† Capacity h-p
Steam engines	805	142,558	1,089	169,284				
Steam turbines	38	27,497	38	29,099	1,425	234,170	4,580	403,156
Internal combustion engines	1,094	62,227	1,175	65,047	1,444	64,955	2,922	76,451
Water wheels and turbines	1,767	99,546	1,900	103,028	2,316	114,106	6,634	229,328
Electric motors driven by purchased current	10,779	309,780	10,639	302,852	10,674	296,625	3,912	112,441
Prime movers, totals	14,533	641,608	14,841	669,910	15,859	709,856	18,048	822,384
Electric motors—Driven by purchased current	10,779	309,780	10,639	302,852	10,674	296,625	3,912	112,441
Driven by current generated in establishment reporting	1,982	33,495	1,857	42,536	1,447	36,129	1,007	37,807
Electric motors, totals	12,761	343,275	12,496	345,387	12,121	332,754	4,919	150,248
		Kilowatts		Kilowatts		Kilowatts		Kilowatts
Electric generators	309	46,070	391	45,560	*..	*..	*..	*..

*Not called for on schedule. †Includes grist mills.

Fuel Consumed in Mills

Fuel consumed in merchant flour and gristmills in the United States and in selected states in 1919 and 1914 (000's omitted):

United States—	Coal, tons— Anthracite	Bituminous	Fuel oils, etc., bbls	Gas, 1,000 cu ft
1919	57	1,582	730	1,157
1914	57	1,810	442	1,627
Indiana—				
1919	..	151	5	16
1914	1	189	2	18
Kansas—				
1919	4	72	308	138
1914	..	120	185	571
Minnesota—				
1919	1	226	1	...
1914	3	249	2	...
Missouri—				
1919	..	206	32	5
1914	..	134	5	14
Ohio—				
1919	..	105	6	212
1914	1	148	3	238

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CENSUS REPORT—WHEAT FLOUR OUTPUT BY STATES, 1909 TO 1927

Wheat flour output of merchant mills, by states, for the census years indicated, in barrels:

State—	1927	1925	1923	1921	1919	1909
Alabama	*.....	*.....	[illegible]	3,247	[illegible]	[illegible]
Arizona	126,986	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
California	[illegible]	1,615,104	[illegible]	[illegible]	[illegible]	[illegible]
Colorado	1,627,656	1,744,865	[illegible]	[illegible]	[illegible]	[illegible]
Connecticut	*.....	*.....	*.....	......	[illegible]	[illegible]
Delaware	63,185	65,331	59,377	89,979	110,494	174,224
Florida	*.....	*.....	*.....	......	[illegible]	[illegible]
Georgia	611,920	[illegible]	617,316	[illegible]	491,402	415,220
Idaho	772,901	[illegible]	903,883	[illegible]	1,101,634	386,022
Illinois	5,092,721	[illegible]	6,513,792	5,214,574	7,261,918	[illegible]
Indiana	3,700,780	[illegible]	[illegible]	3,253,703	4,305,436	[illegible]
Iowa	1,714,729	1,324,423	1,240,882	912,086	1,251,770	1,523,264
Kansas	[illegible]	15,297,777	15,861,565	17,337,406	[illegible]	10,887,744
Kentucky	[illegible]	[illegible]	[illegible]	2,033,138	[illegible]	2,832,288
Maine	3,427	[illegible]	[illegible]	15,220	33,697	13,976
Maryland	877,443	740,140	1,046,869	936,249	1,282,219	[illegible]
Massachusetts	†82,602	*.....	*.....	[illegible]	[illegible]	[illegible]
Michigan	2,245,086	[illegible]	2,129,069	[illegible]	[illegible]	3,447,800
Minnesota	20,796,627	[illegible]	23,684,719	[illegible]	28,505,036	22,737,404
Missouri	9,692,899	7,920,173	7,456,000	6,270,366	7,132,417	5,672,269
Montana	1,920,718	1,965,101	1,937,594	[illegible]	1,271,861	375,440
Nebraska	3,326,228	2,839,225	2,675,617	[illegible]	3,416,087	2,267,650
Nevada	8,848	11,483	14,734	16,639	87,862	61,938
New Hampshire	‡.....	*.....	[illegible]	*.....	86,659	[illegible]
New Jersey	160,360	141,507	[illegible]	144,632	122,622	[illegible]
New Mexico	35,535	[illegible]	[illegible]	71,667	93,588	[illegible]
New York	[illegible]	12,535,028	[illegible]	8,393,930	9,053,389	6,696,628
North Carolina	[illegible]	[illegible]	[illegible]	1,340,705	1,315,322	769,072
North Dakota	1,295,392	[illegible]	2,660,962	1,994,030	2,225,155	1,826,920
Ohio	4,448,054	[illegible]	4,319,503	3,844,424	[illegible]	[illegible]
Oklahoma	2,863,108	[illegible]	2,349,658	2,780,783	[illegible]	[illegible]
Oregon	2,336,781	2,560,032	3,031,274	2,527,866	[illegible]	1,360,281
Pennsylvania	2,139,688	2,092,156	2,316,865	3,007,330	[illegible]	3,749,842
Rhode Island	*.....	*.....	*.....	......	36	38
South Carolina	128,183	59,385	55,226	61,856	49,992	6,690
South Dakota	328,816	331,961	334,935	[illegible]	[illegible]	[illegible]
Tennessee	2,344,762	2,248,723	2,431,013	[illegible]	[illegible]	[illegible]
Texas	4,701,097	4,474,113	[illegible]	[illegible]	4,683,879	3,342,036
Utah	1,280,085	1,039,363	[illegible]	[illegible]	[illegible]	459,248
Vermont	*.....	*.....	1,681	[illegible]	[illegible]	169
Virginia	1,673,151	1,596,736	1,706,964	[illegible]	2,207,721	1,898,712
Washington	4,605,377	3,769,797	4,818,997	4,470,263	5,911,381	2,804,242
West Virginia	280,596	278,218	[illegible]	376,162	[illegible]	631,132
Wisconsin	1,053,199	1,690,840	[illegible]	1,701,788	[illegible]	3,499,865
Wyoming	111,277	138,625	155,676	217,390	103,718	99,537
All other states	99,962	160,482	46,627	150,629	72,723	66,682
United States	118,132,027	114,026,771	114,438,644	110,846,277	132,465,670	105,756,645

*Included under "all other states." †Includes New Hampshire. ‡Included with Massachusetts.

CENSUS REPORT—VALUE OF FLOUR OUTPUT BY STATES, 1919 TO 1927

Value of wheat flour output of merchant mills, by states, for the census years indicated:

State—	1927	1925	1923	1921	1919
Alabama	*.....	*.....	$10,744	$27,755	$640,681
Arizona	$1,013,412	$1,146,844	914,594	1,346,528	1,665,632
Arkansas	880,541	874,869	678,441	1,425,779	3,874,738
California	14,125,621	13,930,092	16,601,814	15,231,636	37,296,612
Colorado	9,800,716	11,080,566	8,376,948	12,449,130	14,944,461
Connecticut	*.....	*.....	*.....	......	4,077
Delaware*	452,428	456,633	323,179	584,507	1,283,733
Florida	*.....	*.....	*.....	......	348
Georgia	4,128,759	5,302,562	4,152,572	4,971,838	6,769,888
Idaho	4,525,075	5,076,004	4,373,081	6,314,274	11,088,516
Illinois	35,695,155	42,321,261	32,825,114	38,728,203	77,749,717
Indiana	29,731,171	28,987,629	18,446,636	24,877,678	47,088,134
Iowa	12,180,045	10,508,889	7,743,732	8,473,164	13,728,744
Kansas	111,551,053	114,053,575	84,479,680	123,563,133	171,664,513
Kentucky	16,068,413	19,923,845	15,422,656	17,071,111	30,317,827
Maine	24,450	33,310	29,001	117,285	389,272
Maryland	5,783,834	5,667,015	5,669,086	6,906,535	13,107,473
Massachusetts	†590,003	*.....	*.....	[illegible]	91,865
Michigan	15,424,883	19,672,891	12,981,265	16,900,620	28,366,273
Minnesota	151,066,286	179,190,505	140,746,393	212,960,436	311,764,407
Missouri	66,886,881	62,246,252	42,580,893	46,373,370	75,273,609
Montana	12,942,187	14,091,626	10,676,235	9,865,806	13,794,193
Nebraska	22,482,193	22,510,087	15,053,296	16,439,407	38,062,423
Nevada	60,337	89,533	84,877	118,525	881,659
New Hampshire	‡.....	*.....	442,926	*.....	998,947
New Jersey	1,209,619	1,242,824	813,294	1,183,658	1,426,707
New Mexico	270,504	395,467	239,561	618,609	1,050,866
New York	89,779,903	101,008,125	54,450,689	74,796,252	99,985,220
North Carolina	12,581,410	13,601,870	[illegible]	11,026,456	15,423,355
North Dakota	8,542,538	14,020,164	[illegible]	15,509,629	24,997,484
Ohio	28,243,004	34,698,865	24,247,172	27,862,439	63,380,697
Oklahoma	19,056,010	18,222,894	12,898,352	18,004,274	37,048,316
Oregon	14,772,372	18,099,583	16,218,628	14,970,497	34,477,758
Pennsylvania	14,249,891	16,773,681	12,950,497	20,858,709	36,821,709
Rhode Island	*.....	*.....	*.....	......	[illegible]
South Carolina	933,189	498,815	335,817	498,861	[illegible]
South Dakota	2,161,936	2,656,249	2,012,300	2,996,631	7,184,128
Tennessee	18,646,016	20,963,208	15,906,729	18,650,164	31,413,719
Texas	33,995,703	38,792,656	25,596,470	33,290,045	52,743,029
Utah	7,772,270	7,554,406	4,041,405	4,639,619	5,710,921
Vermont	*.....	*.....	11,270	31,278	134,337
Virginia	11,591,799	13,456,302	[illegible]	13,828,237	21,311,601
Washington	28,872,585	26,499,314	[illegible]	30,499,422	60,903,486
West Virginia	2,018,558	2,410,251	1,686,103	[illegible]	6,646,431
Wisconsin	7,741,586	12,263,671	9,217,942	[illegible]	30,604,789
Wyoming	660,985	1,085,291	858,868	1,521,226	1,154,906
All other states	760,238	1,631,769	271,393	1,246,164	803,119
United States	$820,273,389	$904,971,424	$663,302,341	$871,731,990	$1,436,444,111

*Included in "all other states." †Includes New Hampshire. ‡Included with Massachusetts.

CENSUS REPORTS—GRAIN GROUND

Grain ground by merchant mills in 1927, as reported by the 1927 census, in bushels:

State—	Wheat	Corn	Rye	Oats	Buckwheat	Barley	All other and mixed grains
Alabama	7,250	638,093	*....	*....	*....	*....	*....
Arizona	686,204	41,256	*....	*....	.....	87,000	7,000
Arkansas	594,279	1,796,248	.....	665,200	.....	.....	230,000
California	9,347,360	2,831,218	2,646	304,607	.....	3,787,386	522,374
Colorado	7,163,833	1,488,438	3,456	416,045	*....	249,389	4,600
Connecticut	*....	143,783	.....	54,586	.....	.....	.....
Delaware	316,432	325,972	*....	*....	*....	*....	*....
Florida	*....	182,510	*....	*....	*....	*....	*....
Georgia	2,421,752	1,637,124	*....	*....	*....	*....	*....
Idaho	3,477,466	71,383	*....	109,911	.....	401,244	35,475
Illinois	23,619,914	4,541,916	*....	457,123	47,199	86,490	86,579
Indiana	17,978,000	6,676,276	22,643	738,018	41,844	32,485	111,807
Iowa	6,259,090	1,111,692	29,366	670,666	32,697	53,334	17,591
Kansas	79,747,705	2,787,926	8,480	222,660	.....	6,823	76,896
Kentucky	9,583,454	3,787,398	6,890	227,901	*....	*....	*....
Maine	16,787	1,822,501	*....	639,016	*....	*....	.....
Maryland	4,198,409	1,249,703	11,262	184,733	18,337	18,337	88,196
Massachusetts	*....	2,132,980	18,202	323,137	.....	*....	27,020
Michigan	10,660,975	1,018,342	182,160	1,082,327	131,917	86,024	122,113
Minnesota	95,652,660	2,060,726	3,944,039	1,617,987	110,283	191,994	365,491
Missouri	43,434,118	7,245,554	*....	747,699	*....	*....	173,206
Montana	8,488,856	[illegible]	3,280	622,277	.....	30,125	*....
Nebraska	16,368,987	[illegible]	35,133	109,078	*....	7,816	28,809
Nevada	[illegible]	*....	*....	*....	*....	*....	*....
New Hampshire	[illegible]	382,041	*....	73,596	.....	.....	.....
New Jersey	712,829	657,403	[illegible]	172,673	*....	*....	3,233
New Mexico	191,828	*....	*....	*....	*....	*....	*....
New York	[illegible]	[illegible]	638,129	3,338,160	819,717	362,898	168,259
North Carolina	8,059,670	[illegible]	[illegible]	21,029	*....	*....	49,389
North Dakota	[illegible]	*....	[illegible]	7,324	*....	60,036	.....
Ohio	20,384,117	[illegible]	38,736	1,609,059	64,348	87,315	92,111
Oklahoma	13,101,717	[illegible]	.....	242,482	.....	12,053	[illegible]
Oregon	10,739,333	[illegible]	[illegible]	1,268,421	.....	331,094	[illegible]
Pennsylvania	10,646,439	5,659,318	[illegible]	3,266,271	710,858	67,647	393,682
Rhode Island	*....	[illegible]	.....	76,074	.....	.....	.....
South Carolina	667,589	[illegible]	.....	133,860	.....	.....	44,276
South Dakota	1,559,805	416,930	2,310	34,000	.....	*....	*....
Tennessee	11,098,830	[illegible]	*....	96,482	1,991	1,715	618,446
Texas	[illegible]	[illegible]	7,134	460,696	*....	141,744	268,271
Utah	[illegible]	323,672	*....	126,364	*....	[illegible]	19,095
Vermont	*....	1,499,471	*....	986,100	*....	15,835	.....
Virginia	7,641,050	2,089,198	36,099	192,719	16,363	25,756	[illegible]
Washington	22,547,741	2,641,925	[illegible]	1,708,355	*....	*....	[illegible]
West Virginia	1,345,169	2,741,470	[illegible]	897,011	47,288	900	.....
Wisconsin	4,886,456	1,495,712	2,267,872	2,899,869	374,009	413,950	78,614
Wyoming	516,319	*....	*....	*....	*....	.....	.....
Other states	154,537	2,457,503	[illegible]	166,925	343,765	110,919	32,050
United States	544,053,668	92,693,486	9,254,712	27,760,799	2,760,606	8,180,430	3,804,639

*Figures included with those for other states to avoid disclosing operations of individual establishments.

GRAIN GROUND IN 1925

Grain ground by merchant mills in 1925, as reported by the 1925 census, in bushels:

State—	Wheat	Corn	Rye	Buckwheat	Oats	All other
Alabama	61,930	2,247,121	*.....	*.....	*.....	*.....
Arizona	689,864	23,578	*.....	*.....	9,050	194,959
Arkansas	615,417	2,166,494	*.....	*.....	*.....	*.....
California	8,166,962	4,066,684	18,424	*.....	1,275,467	6,388,004
Colorado	7,703,097	1,314,972	4,397	*.....	230,484	413,610
Connecticut	3,640	484,453	*.....	*.....	281,663	19,320
Delaware	268,246	266,270	*.....	*.....	*.....	*.....
Florida	*.....	137,784	*.....	*.....	*.....	*.....
Georgia	2,731,176	1,604,116	*.....	*.....	*.....	*.....
Idaho	3,653,017	100,040	*.....	*.....	141,400	353,864
Illinois	24,176,714	6,740,739	942,210	34,337	2,000,652	911,468
Indiana	16,688,125	5,048,363	21,987	44,128	687,011	141,069
Iowa	6,390,769	1,779,790	37,930	27,960	1,094,096	262,767
Kansas	69,806,087	3,173,760	9,813	*.....	620,636	412,221
Kentucky	9,706,661	2,081,612	1,600	*.....	344,002	17,900
Maine	21,004	1,851,859	*.....	28,097	419,146	*.....
Maryland	3,618,785	1,202,434	12,404	53,917	206,666	63,421
Massachusetts	96,472	2,164,430	26,162	*.....	656,944	*.....
Michigan	10,914,816	1,388,997	326,763	169,901	1,196,493	304,307
Minnesota	104,911,466	2,082,224	3,643,723	60,326	2,373,067	688,940
Missouri	36,642,060	7,668,868	9,799	6,474	1,839,480	224,346
Montana	8,957,177	29,648	*.....	*.....	628,689	19,301
Nebraska	13,177,348	2,168,379	44,409	6,166	191,396	35,155
Nevada	66,820	*.....	*.....	*.....	*.....	*.....
New Hampshire	326,971	392,800	*.....	*.....	*.....	*.....
New Jersey	743,187	892,569	42,848	187,366	218,882	7,624
New Mexico	220,340	32,664	*.....	*.....	*.....	*.....
New York	67,618,686	12,431,073	444,957	627,036	10,645,065	1,390,382
North Carolina	7,176,258	1,392,116	14,712	*.....	25,153	12,658
North Dakota	7,933,213	21,367	24,657	*.....	74,069	35,543
Ohio	20,682,329	4,966,088	48,206	82,397	2,600,485	223,763
Oklahoma	11,933,572	3,050,020	*.....	*.....	620,060	396,630
Oregon	12,103,661	737,567	21,233	21,630	1,826,788	666,354
Pennsylvania	10,629,926	6,481,206	503,771	672,679	3,539,616	346,760
Rhode Island	*.....	690,005	*.....	*.....	*.....	*.....
South Carolina	314,210	442,891	*.....	*.....	*.....	*.....
South Dakota	1,609,100	30,827	3,916	.....	37,643	*.....
Tennessee	10,746,302	4,620,734	6,289	*.....	368,816	80,485
Texas	20,637,826	6,228,622	4,236	*.....	1,116,761	662,902
Utah	4,842,469	97,190	2,868	*.....	99,201	99,154
Vermont	33,631	2,734,106	*.....	*.....	1,600,586	34,050
Virginia	7,616,938	2,666,182	26,421	12,819	123,414	69,851
Washington	16,719,526	2,409,340	62,793	*.....	2,648,246	1,223,651
West Virginia	1,362,672	2,180,602	11,637	105,373	726,027	60,140
Wisconsin	7,632,378	2,368,369	1,794,198	243,389	2,690,396	913,695
Wyoming	663,776	24,427	*.....	*.....	4,100	11,915
All other states	633,008	1,123,717	16,139	36,347	3,128,092	209,850
United States	630,692,697	106,364,662	8,126,301	2,408,360	45,817,868	16,658,139

*Figures included with those for all other states to avoid disclosing operations of individual establishments.

GRAIN GROUND IN 1923

Grain ground by merchant mills in 1923, as reported by the 1923 census, in bushels:

State—	Wheat	Corn	Rye	Buckwheat	Oats	All other
Alabama	7,039	1,653,928	15,000	10,000	161,100	6,033
Arizona	716,619	20,660	.....	.....	.....	135,780
Arkansas	602,660	2,270,726	.....	.....	340,110	100,009
California	12,800,655	3,378,360	43,339	4,106	988,491	8,314,047
Colorado	6,716,976	1,434,227	17,368	*....	382,318	257,220
Connecticut	3,640	811,316	1,011	*....	610,908	*....
Delaware	310,076	192,684	*....	7,700	5,700	.....
Florida	46,000	113,482	.....	.....	.....	*....
Georgia	2,894,961	2,811,435	.....	.....	111,224	[illegible]
Idaho	4,101,374	16,983	.....	.....	336,187	[illegible]
Illinois	26,100,428	10,001,841	1,129,466	93,429	4,288,045	1,669,310
Indiana	16,808,304	6,687,860	39,880	43,933	804,179	98,465
Iowa	6,959,826	2,266,192	63,662	30,280	1,177,909	225,461
Kansas	73,068,072	3,096,779	6,646	6,000	438,089	383,894
Kentucky	11,049,979	3,226,789	14,412	2,771	211,366	109,894
Maine	30,644	2,449,697	1,413	68,126	667,438	22,798
Maryland	6,111,686	897,668	11,314	42,667	160,245	22,349
Massachusetts	137,497	2,623,463	13,369	44,760	628,621	30,911
Michigan	10,474,152	2,472,118	427,421	221,996	2,098,543	39,877
Minnesota	111,956,216	2,644,068	3,336,965	226,871	2,138,799	1,049,232
Missouri	34,337,913	8,067,121	64,886	2,320	1,110,100	481,862
Montana	8,698,118	41,282	3,994	.....	381,861	33,659
Nebraska	12,809,134	3,223,122	76,326	7,280	136,023	57,185
Nevada	81,930	4,268	.....	.....	6,390	34,525
New Hampshire	323,784	1,177,616	3,900	*....	404,174	2,812
New Jersey	661,304	1,087,274	100,844	200,189	404,232	7,436
New Mexico	209,184	18,799	.....	*....	[illegible]	9,913
New York	41,146,831	12,723,772	664,740	612,647	10,698,460	438,279
North Carolina	6,066,904	1,668,023	13,600	2,200	43,230	*....
North Dakota	12,640,906	23,700	20,893	*....	107,186	42,810
Ohio	20,399,891	7,666,378	63,263	144,051	4,001,394	418,712
Oklahoma	10,921,956	4,327,229	1,933	.....	639,741	330,619
Oregon	14,237,610	641,684	26,191	*....	1,998,159	622,264
Pennsylvania	11,606,668	6,617,242	663,204	860,914	3,678,470	190,122
Rhode Island	*....	914,977	*....	39,140	144,797	.....
South Carolina	262,003	950,259	.....	.....	238,081	4,199
South Dakota	1,611,618	23,089	13,936	*....	32,405	6,350
Tennessee	11,669,771	6,102,742	10,100	1,366	423,004	9,124
Texas	18,740,169	7,033,426	2,494	*....	942,296	707,159
Utah	3,687,771	44,113	3,176	11,044	70,391	34,364
Vermont	31,043	2,516,037	*....	*....	1,316,731	73,175
Virginia	8,306,784	3,239,897	61,763	23,612	496,883	38,245
Washington	23,167,276	2,266,988	101,061	.....	2,172,239	1,294,865
West Virginia	1,378,205	2,952,603	16,393	49,476	682,038	5,358
Wisconsin	7,122,671	3,962,418	2,222,464	180,071	3,243,103	737,363
Wyoming	696,316	2,606	*....	.....	1,208	.....
All other states†	123,836	1,032,376	670	2,119	639,119	9,041
United States	638,312,078	126,193,806	9,246,841	2,937,836	49,310,318	18,234,636

*Figures included with those for all other states to avoid disclosing operations of individual establishments. †District of Columbia, Louisiana and Mississippi.

CERESOTA FLOUR

PURE—WHOLESOME—NOT BLEACHED

MADE BY

THE NORTHWESTERN CONSOLIDATED MILLING CO.

H. P. GALLAHER, PRESIDENT MINNEAPOLIS, MINN., U. S. A.

CENSUS REPORT—RYE AND BUCKWHEAT FLOUR OUTPUT

State—Year—	Rye flour, bbls	Buckwheat flour, lbs
California—		
1927	......	......
1925	*.....	*.....
1923	5,382	*.....
1921	4,156	*.....
1919	3,541	*.....
1914	5,652	26,160
Colorado—		
1927	......	......
1925	*.....	*.....
1923	*.....	*.....
1921	*.....	......
1919	5,365	......
1914	40	......
Connecticut—		
1927	......	......
1925	*.....	*.....
1923	*.....	*.....
1921	150	*.....
1919	1,836	10,875
1914	1,348	35,650
Delaware—		
1927	......	......
1925	......	*.....
1923	......	*.....
1921	......	247,325
1919	......	176,194
1914	......	408,660
Illinois—		
1927	*.....	177,330
1925	*.....	214,490
1923	216,244	311,797
1921	57,440	1,900,265
1919	127,712	550,570
1914	146,432	736,805
Indiana—		
1927	*.....	462,970
1925	667	893,600
1923	404	852,746
1921	1,396	680,306
1919	30,696	757,616
1914	6,414	515,423
Iowa—		
1927	6,539	567,086
1925	6,206	423,258
1923	7,346	658,440
1921	10,160	772,788
1919	11,166	1,821,294
1914	13,133	1,123,575
Kansas—		
1927	*.....	*.....
1925	*.....	*.....
1923	*.....	*.....
1921	1,409	*.....
1919	17,450	*.....
1914	9,950	168,600
Maine—		
1927	*.....	*.....
1925	*.....	589,200
1923	*.....	1,768,890
1921	64	1,412,990
1919	*.....	1,003,730
1914	264	415,058
Ohio—		
1927	2,926	1,039,955
1925	4,094	1,161,418
1923	6,052	2,466,250
1921	10,728	2,442,359
1919	22,044	3,853,140
1914	43,674	5,848,216
Oregon—		
1927	*.....	*.....
1925	1,212	33,966
1923	1,203	15,600
1921	3,076	......
1919	*.....	4,500
1914	4,127	2,505
Pennsylvania—		
1927	48,224	12,169,780
1925	55,189	12,861,865
1923	77,642	14,019,567
1921	111,225	20,091,134
1919	163,922	27,331,935
1914	151,877	36,530,070
South Dakota—		
1927	*.....	......
1925	637	......
1923	500	*.....
1921	465	38,095
1919	551	30,804
1914	1,474	17,820
Vermont—		
1927	......	*.....
1925	......	*.....
1923	......	611,000
1921	54	46,700
1919	*.....	72,175
1914	144	456,333
Virginia—		
1927	*.....	189,600
1925	2,102	148,687
1923	718	372,355
1921	53	799,624
1919	3,578	956,695
1914	4,746	532,950
Washington—		
1927	14,587	*.....
1925	12,692	......
1923	*.....	......
1921	7,277	......
1919	6,772	*.....
1914	6,343	2,780
West Virginia—		
1927	*.....	681,820
1925	295	1,306,713
1923	......	*.....
1921	120	1,788,929
1919	*.....	2,735,765
1914	1,793	3,680,671
Wisconsin—		
1927	383,734	*.....
1925	377,019	5,908,647
1923	422,227	5,262,270
1921	484,495	5,553,622
1919	601,350	11,573,754
1914	561,475	8,506,653
Maryland—		
1927	*.....	353,345
1925	*.....	1,337,377
1923	175	770,873
1921	81	1,651,998
1919	835	1,632,083
1914	2,211	1,564,878
Massachusetts—		
1927	4,325	......
1925	*.....	*.....
1923	2,013	......
1921	6,111	52,000
1919	5,782	43,650
1914	7,949	294,967
Michigan—		
1927	29,367	3,235,939
1925	51,087	4,432,400
1923	49,613	6,301,515
1921	34,310	5,213,809
1919	127,750	7,981,873
1914	74,662	15,773,491
Minnesota—		
1927	828,222	*.....
1925	769,364	484,749
1923	683,171	2,002,681
1921	427,501	2,521,805
1919	1,097,252	1,362,611
1914	579,648	1,953,928
Missouri—		
1927	*.....	*.....
1925	*.....	*.....
1923	4,753	*.....
1921	1,141	*.....
1919	6,403	9,672
1914	2,596	......
Nebraska—		
1927	5,889	*.....
1925	9,743	*.....
1923	10,368	*.....
1921	12,154	164,991
1919	15,201	99,015
1914	22,515	74,572
New Jersey—		
1927	*.....	*.....
1925	6,435	370,245
1923	*.....	958,718
1921	23,647	1,557,524
1919	71,827	928,241
1914	66,621	1,942,300
New York—		
1927	108,846	15,363,876
1925	77,609	17,110,222
1923	109,902	11,257,468
1921	134,241	18,068,726
1919	178,866	25,619,032
1914	202,336	44,291,164
North Carolina—		
1927	*.....	......
1925	282	......
1923	......	*.....
1921	......	68,500
1919	1,070	38,125
1914	1,260	55,700
All others—		
1927	291,770	10,307,706
1925	186,550	299,493
1923	37,309	1,550,421
1921	3,276	354,829
1919	6,771	1,214,058
1914	7,091	60,870
United States—		
1927	1,724,429	44,559,407
1925	1,561,184	47,566,131
1923	1,634,726	49,180,591
1921	1,334,863	65,438,319
1919	2,627,762	90,137,407
1914	1,926,795	126,622,169

*Included in "all others."

Census Report—Barley Meal, Hominy and Grits

Production of barley meal, hominy and grits, as reported by the census, in pounds (000's omitted):

	Barley meal		Hominy and grits	
	1919	1914	1919	1914
Alabama	...	...	493	1,398
Arizona	...	250	...	...
California	19,599	3,099	668	560
Connecticut	...	101	...	...
Delaware	...	...	...	1,397
Georgia	...	...	1,265	70
Idaho	...	764	...	128
Illinois	...	...	101,199	154,209
Indiana	...	20	93,967	292,131
Iowa	62	284	3,247	16,693
Kansas	...	81	...	36,765
Kentucky	...	468	18,397	14,536
Maine	...	48	...	242
Maryland	...	40	326	2,464
Massachusetts	...	398	...	100
Michigan	832	222	...	466
Minnesota	69,665	...	...	1,483
Missouri	2,107	...	8,074	24,884
Nebraska	...	8	...	58
N. Hampshire	...	15	...	336
New York	1,408	1,904	...	79,146
N. Carolina	...	...	...	2,109
N. Dakota	...	...	...	3,380
Ohio	70	72	...	83,822
Oklahoma	...	...	...	400
Oregon	1,133	1,837	...	5
Pennsylvania	505	270	...	51,982
S. Carolina	...	...	387	262
Tennessee	...	5	...	5,665
Utah	...	219	...	8
Vermont	...	366	...	150
Virginia	277	735	...	444
Washington	...	1,235	...	...
W. Virginia	...	14	...	88
Wisconsin	761	1,633	29,310	94,955
Other states	5,393	24	31,203	38,708
U. States	91,809	14,001	288,626	870,344

CORN MEAL AND CORN FLOUR OUTPUT

State—	1927 Barrels	1927 Value	1925 Barrels	1925 Value	1923 Barrels	1923 Value	1921 Barrels
Alabama	214,842	$1,019,564	234,842	$1,349,244	327,972	$1,205,603	307,886
Arizona	*....	*.....	2,730	20,149	*.....	*.....	2,771
Arkansas	286,571	1,200,240	313,643	1,467,339	298,308	1,255,241	328,402
California	81,700	543,061	70,925	586,240	53,872	338,344	65,170
Colorado	14,038	80,377	*....	*.....	16,769	74,173	23,146
Connecticut	73,957	204,316	68,233	282,128	121,190	492,108	50,262
Delaware	33,722	133,407	40,609	148,881	43,876	165,074	38,849
Florida	37,388	161,603	30,815	137,981	18,749	88,050	19,108
Georgia	393,009	1,811,420	381,326	2,082,603	667,461	3,096,982	511,179
Idaho	*....	*.....	*....	*.....	*....	*.....	644
Illinois	271,174	1,103,628	313,975	1,630,217	441,425	1,839,673	460,319
Indiana	794,160	3,379,976	671,869	3,420,862	807,347	3,144,738	973,969
Iowa	332,732	1,968,983	75,420	309,775	[illegible]	959,914	200,958
Kansas	219,037	937,622	160,303	834,733	[illegible]	942,386	261,322
Kentucky	646,969	2,691,994	561,407	2,793,899	525,922	2,461,083	629,942
Maine	204,335	848,488	154,656	640,629	268,668	1,022,786	224,646
Maryland	67,974	333,188	66,566	331,176	124,091	461,640	108,434
Massachusetts	242,369	964,235	231,259	1,015,032	292,884	1,220,596	192,956
Michigan	88,636	298,162	39,936	217,741	68,096	262,109	25,659
Minnesota	14,603	74,519	29,559	144,468	33,826	136,796	74,681
Mississippi	101,185	496,285	48,633	[illegible]	......	......	......
Missouri	748,571	3,364,113	785,868	3,792,219	782,378	3,044,145	701,712
Nebraska	422,477	1,929,890	281,242	1,438,539	317,647	[illegible]	186,257
New Hampshire	28,035	108,252	38,240	155,595	265,583	[illegible]	180,272
New Jersey	6,580	30,420	24,755	128,085	62,804	[illegible]	84,629
New Mexico	*....	*.....	*....	*.....	1,682	[illegible]	9,090
New York	452,214	[illegible]	484,032	2,128,494	701,067	3,216,352	1,021,184
North Carolina	350,987	[illegible]	302,903	1,587,373	263,704	1,762,135	368,891
North Dakota	*....	*.....	*....	*.....	*....	*.....	3,550
Ohio	510,644	2,637,948	366,343	1,638,117	612,410	[illegible]	348,705
Oklahoma	268,926	1,210,269	280,034	1,387,952	293,388	[illegible]	203,347
Oregon	¶16,683	[illegible]	*....	*.....	*....	*.....	*
Pennsylvania	87,060	[illegible]	114,138	570,112	246,868	[illegible]	327,745
Rhode Island	19,595	[illegible]	27,873	124,574	178,059	[illegible]	60,477
South Carolina	35,659	[illegible]	52,911	206,298	97,541	[illegible]	114,109
South Dakota	*....	*.....	940	5,703	865	[illegible]	2,634
Tennessee	835,332	[illegible]	922,685	4,123,178	851,171	3,682,377	704,077
Texas	625,731	[illegible]	734,033	3,758,686	888,995	3,957,265	685,615
Utah	*....	*.....	*....	*.....	430	1,651	199
Vermont	156,756	601,901	139,850	[illegible]	252,587	[illegible]	234,613
Virginia	426,739	2,021,744	569,983	[illegible]	690,888	[illegible]	741,934
Washington	‡....	‡.....	*....	*.....	*....	*.....	14,314
West Virginia	205,404	999,799	170,265	821,503	414,076	1,727,658	214,775
Wisconsin	*....	*.....	*....	*.....	613,624	2,478,896	159,568
Wyoming	*....	*.....	*....	*.....	*....	*.....	412
All other states†	295,504	1,246,560	104,516	512,887	30,033	141,224	73,821
United States	9,490,298	$42,912,600	8,902,516	$43,653,011	12,166,140	$52,011,228	10,932,155

*Included in "all other states." †Includes District of Columbia, Louisiana and Montana. ¶Includes Washington. ‡Included with Oregon.

CENSUS REPORT—WHEAT FLOUR AND CORN MEAL AND FLOUR OUTPUT—1914-1919

State—	Wheat flour 1914 Barrels	Wheat flour 1914 Value	Corn meal and flour 1919 Barrels	Corn meal and flour 1919 Value	Corn meal and flour 1914 Barrels
Alabama	18,194	$102,209	343,580	$2,652,384	318,465
Arizona	79,414	493,648	8,096	75,081	2,414
Arkansas	291,964	1,510,427	237,272	1,901,421	468,338
California	1,783,007	10,341,920	113,250	1,064,460	93,165
Colorado	1,229,226	4,923,302	52,287	491,092	[illegible]
Connecticut	44	318	23,831	179,669	[illegible]
Delaware	157,862	797,625	63,379	401,089	67,790
Florida	......	......	42,567	308,754	26,082
Georgia	348,421	2,155,527	541,962	4,050,824	519,110
Idaho	571,965	2,261,403	1,786	18,674	5,015
Illinois	6,043,983	31,904,077	552,385	4,045,507	600,515
Indiana	4,520,879	21,183,688	512,179	4,451,959	984,239
Iowa	1,488,811	7,149,334	145,361	1,106,986	318,590
Kansas	12,777,682	56,514,360	241,247	1,860,184	358,756
Kentucky	2,728,464	13,880,767	826,775	6,457,901	774,322
Maine	8,820	54,598	72,566	690,035	659,195
Maryland	1,105,677	5,152,538	128,005	1,019,061	170,431
Massachusetts	14,272	73,477	116,422	832,556	720,254
Michigan	3,066,744	16,056,643	94,175	812,361	131,646
Minnesota	27,132,165	117,988,654	126,621	1,072,114	53,815
Missouri	5,402,391	25,633,116	822,994	6,235,585	763,678
Montana	871,918	3,919,318	*.....	*.....	*
Nebraska	2,383,097	10,944,865	103,560	712,495	230,958
Nevada	40,329	[illegible]	*.....	*.....	*
New Hampshire	88,432	514,496	30,708	222,030	135,191
New Jersey	167,330	920,775	40,513	318,494	65,634
New Mexico	59,445	317,998	3,690	28,542	2,767
New York	8,522,011	40,798,737	466,303	2,622,848	1,170,364
North Carolina	951,805	5,231,853	624,431	4,980,429	[illegible]
North Dakota	2,165,078	9,864,400	205	1,794	[illegible]
Ohio	5,707,781	27,852,222	371,042	2,716,482	521,911
Oklahoma	2,072,240	9,832,201	293,863	2,316,596	256,254
Oregon	1,791,334	7,749,618	557	4,534	2,567
Pennsylvania	3,976,031	19,795,116	271,435	2,051,136	760,299
Rhode Island	104	760	40,970	325,543	25,739
South Carolina	20,120	103,906	124,086	976,641	71,455
South Dakota	920,070	4,458,141	3,409	31,200	5,214
Tennessee	3,093,107	15,620,227	1,088,123	8,373,779	1,601,617
Texas	4,089,378	21,805,623	713,288	5,818,489	1,012,654
Utah	505,224	2,242,417	3,292	27,663	154
Vermont	3,133	17,467	211,215	1,540,559	455,617
Virginia	2,161,767	10,702,588	723,003	5,656,781	1,099,215
Washington	3,765,070	15,686,353	6,433	55,297	620
West Virginia	520,949	2,732,789	238,070	1,922,416	233,582
Wisconsin	3,056,954	13,817,821	209,961	1,173,791	165,531
Wyoming	106,189	530,528	1,072	11,523	1,446
All other states	20	100	56,885	513,798	36,920
United States	116,403,770	$543,839,568	10,682,952	$82,059,560	16,327,993

CENSUS REPORT—FEED PRODUCTION BY STATES, 1914-1927

	Bran and middlings	Feed, screenings, etc.
Alabama—		
1927	*.....	9,250
1925	*.....	20,952
1923	*.....	70,004
1921	219	29,496
1919	3,048	19,129
1914	853	26,054
Arizona—		
1927	5,090	*.....
1925	4,767	6,279
1923	6,412	5,997
1921	5,446	6,381
1919	5,732	8,864
1914	3,706	14,753
Arkansas—		
1927	1,664	40,087
1925	1,803	38,013
1923	4,219	42,674
1921	8,393	73,849
1919	13,244	34,515
1914	22,117	71,947
California—		
1927	77,436	196,323
1925	62,278	254,634
1923	94,173	493,181
1921	75,425	291,914
1919	129,869	283,206
1914	80,165	354,623
Colorado—		
1927	56,129	52,779
1925	64,589	47,517
1923	51,714	53,099
1921	55,815	52,666
1919	50,869	49,253
1914	49,240	47,721
Connecticut—		
1927	......	4,839
1925	......	11,430
1923	*.....	19,227
1921	*.....	20,446
1919	69	34,831
1914	189	38,781

	Bran and middlings	Feed, screenings, etc.
Delaware—		
1927	2,942	5,684
1925	2,697	2,904
1923	2,797	1,476
1921	4,214	3,880
1919	5,069	1,166
1914	7,754	5,892
Florida—		
1927	.....	642
1925	.....	1,029
1923	*.....	1,635
1921	.....	2,963
1919	.....	3,769
1914	.....	1,491
Georgia—		
1927	21,891	8,585
1925	26,946	4,268
1923	13,823	26,843
1921	14,540	14,367
1919	21,050	13,733
1914	14,491	19,016
Idaho—		
1927	25,599	8,771
1925	31,103	16,513
1923	30,377	12,627
1921	31,882	7,574
1919	39,807	14,061
1914	25,789	21,879
Illinois—		
1927	209,989	86,363
1925	209,793	111,799
1923	212,100	733,627
1921	203,982	220,079
1919	284,744	270,762
1914	270,754	242,201
Indiana—		
1927	149,167	94,552
1925	146,282	85,151
1923	141,519	102,640
1921	125,988	203,614
1919	165,615	179,565
1914	167,460	170,167
Iowa—		
1927	67,973	343,223
1925	67,062	66,961
1923	53,654	82,773
1921	40,922	65,596
1919	54,516	62,006
1914	63,857	99,219
Kansas—		
1927	669,673	75,047
1925	691,741	83,472
1923	693,492	129,715
1921	650,546	169,316
1919	696,119	123,724
1914	486,245	174,229
Kentucky—		
1927	87,672	20,627
1925	88,529	19,748
1923	94,646	89,048
1921	82,579	46,413
1919	96,133	58,390
1914	115,442	68,152
Maine—		
1927	*.....	32,082
1925	*.....	60,716
1923	276	52,456
1921	1,026	60,599
1919	1,514	72,620
1914	456	66,095
Maryland—		
1927	37,906	10,389
1925	30,273	24,121
1923	45,650	20,155
1921	35,242	16,641
1919	50,633	16,876
1914	49,202	32,947
Massachusetts—		
1927	*.....	37,220
1925	*.....	41,726
1923	*.....	57,031
1921	878	69,161
1919	*.....	69,609
1914	460	45,692
Michigan—		
1927	91,090	133,935
1925	98,823	67,577
1923	95,136	115,272
1921	81,045	125,643
1919	103,752	138,614
1914	149,893	216,760
Minnesota—		
1927	803,081	101,371
1925	883,510	131,384
1923	841,350	437,436
1921	679,386	535,607
1919	831,293	494,101
1914	1,051,260	219,263
Missouri—		
1927	385,491	160,187
1925	316,177	165,417
1923	267,662	238,407
1921	249,910	186,858
1919	275,382	242,320
1914	219,068	188,597
Montana—		
1927	70,041	6,427
1925	65,170	17,107
1923	66,646	12,556
1921	40,992	4,894
1919	46,202	7,427
1914	34,543	8,771
Nebraska—		
1927	134,014	23,691
1925	112,295	40,544
1923	87,632	130,617
1921	98,046	46,161
1919	119,191	176,364
1914	109,741	39,562
Nevada—		
1927	632	*.....
1925	471	690
1923	687	1,365
1921	821	1,275
1919	3,148	2,140
1914	1,664	2,696
New Hampshire—		
1927	*.....	8,362
1925	*.....	11,576
1923	*.....	13,503
1921	*.....	19,965
1919	3,562	23,145
1914	3,191	55,670
New Jersey—		
1927	5,578	23,656
1925	6,442	28,727
1923	5,784	38,449
1921	6,624	44,098
1919	7,823	47,456
1914	11,137	77,620

	Bran and middlings	Feed, screenings, etc.
New Mexico—		
1927	1,331	2,354
1925	1,938	716
1923	1,679	1,163
1921	2,974	1,933
1919	4,225	382
1914	2,803	615
New York—		
1927	173,920	270,382
1925	483,254	484,124
1923	320,276	542,152
1921	310,358	570,153
1919	365,285	532,069
1914	311,061	637,394
North Carolina—		
1927	70,253	9,460
1925	61,820	21,608
1923	37,424	22,046
1921	81,802	25,602
1919	56,322	14,981
1914	42,145	19,559
North Dakota—		
1927	48,830	6,149
1925	66,235	8,639
1923	110,168	11,929
1921	36,389	53,526
1919	68,267	32,609
1914	80,415	13,575
Ohio—		
1927	171,956	205,451
1925	174,131	166,324
1923	167,311	276,354
1921	160,039	184,012
1919	229,615	192,610
1914	255,720	249,581
Oklahoma—		
1927	112,419	65,266
1925	96,552	80,814
1923	89,986	118,274
1921	105,124	81,824
1919	132,036	72,536
1914	83,282	141,419
Oregon—		
1927	86,709	39,350
1925	98,495	55,507
1923	83,813	123,051
1921	96,287	78,660
1919	98,122	66,239
1914	51,768	71,254
Pennsylvania—		
1927	97,901	167,796
1925	95,333	212,497
1923	99,546	269,335
1921	133,999	696,099
1919	139,565	299,597
1914	162,626	404,928
South Carolina—		
1927	4,893	*.....
1925	1,716	*.....
1923	1,452	29,285
1921	3,367	14,878
1919	2,277	6,413
1914	803	224
South Dakota—		
1927	14,619	1,021
1925	15,044	5,628
1923	13,779	3,236
1921	17,116	3,720
1919	25,615	10,734
1914	42,694	7,875
Tennessee—		
1927	97,436	47,372
1925	91,944	44,005
1923	82,268	129,761
1921	70,645	105,091
1919	96,335	127,842
1914	124,783	74,659
Texas—		
1927	188,837	95,427
1925	174,174	138,825
1923	148,379	162,692
1921	160,612	88,251
1919	183,437	87,014
1914	167,081	171,610
Utah—		
1927	52,953	7,431
1925	42,473	9,661
1923	29,609	5,967
1921	28,939	7,660
1919	22,784	8,157
1914	21,480	16,573
Virginia—		
1927	69,760	16,484
1925	66,468	25,491
1923	64,708	49,744
1921	71,747	21,999
1919	83,514	29,002
1914	91,142	31,466
Washington—		
1927	169,330	81,327
1925	127,732	107,670
1923	138,923	347,751
1921	150,178	224,058
1919	190,970	173,033
1914	121,537	120,260
West Virginia—		
1927	15,624	53,958
1925	11,360	60,614
1923	[illegible]	57,715
1921	19,159	49,408
1919	23,009	31,410
1914	20,111	82,677
Wisconsin—		
1927	48,134	97,374
1925	64,017	137,691
1923	67,265	215,336
1921	88,108	200,713
1919	118,872	301,160
1914	106,354	263,465
Wyoming—		
1927	3,533	401
1925	5,503	1,119
1923	5,295	299
1921	7,834	8,468
1919	3,811	1,474
1914	3,503	1,415
All other states†—		
1927	6,221	113,036
1925	7,498	111,891
1923	1,476	124,026
1921	3,900	140,541
United States—		
1927	4,638,332	2,748,514
1925	4,474,028	3,023,078
1923	4,197,811	5,475,594
1921	4,041,084	4,595,829
1919	4,760,326	4,564,855
1914	4,645,030	4,783,280

*Included under "All other states" to avoid disclosure of individual operations.
†Includes District of Columbia, Louisiana and Mississippi.

CENSUS OF MILLS PRODUCING 100,000 BBLS OF WHEAT FLOUR OR MORE, 1914-1927

Census year	No. of establishments	Av'ge production per establishment, bbls	Wheat used, bus	Flour produced, bbls	Value
California—1927	*	*.....	*.....	*.....	*.....
1925	*	*.....	*.....	*.....	*.....
1923	7	304,717	10,128,530	2,133,019	$13,002,593
1921	5	293,145	6,824,661	1,465,723	11,370,807
1919	6	460,542	12,408,297	2,763,251	30,060,643
1914	5	234,878	6,109,311	1,174,388	7,047,789
Colorado—1927	*	*.....	*.....	*.....	*.....
1925	*	*.....	*.....	*.....	*.....
1923	*	*.....	*.....	*.....	*.....
1921	4	157,808	2,759,403	631,233	5,566,703
1919	4	147,882	2,609,246	591,526	5,929,993
1914	4	147,690	2,677,254	590,759	2,241,705
Illinois—1927	11	329,746	16,759,033	3,627,204	25,068,066
1925	11	335,541	17,045,724	3,690,955	29,618,314
1923	11	326,176	16,671,078	3,587,937	31,264,546
1921	10	296,679	13,527,919	2,966,791	21,535,856
1919	15	307,882	21,064,061	4,618,227	48,921,532
1914	12	316,090	17,382,299	3,793,084	17,903,037
Indiana—1927	9	247,053	10,953,357	2,223,473	18,826,316
1925	8	274,338	10,976,260	2,194,703	17,580,062
1923	8	229,359	8,613,704	1,834,870	9,994,481
1921	8	206,559	7,360,326	1,652,469	12,850,862
1919	9	252,480	10,433,883	2,272,319	24,732,677
1914	7	251,507	[illegible]	1,655,652	[illegible]
Kansas—1927	51	299,128	69,194,794	15,255,508	98,904,102
1925	41	296,591	55,605,068	12,160,233	90,643,911
1923	43	285,830	56,212,226	12,290,690	65,721,615
1921	55	255,291	63,725,160	14,041,007	100,288,345
1919	52	240,852	57,094,101	12,524,284	132,647,538
1914	44	198,564	42,187,343	8,988,295	39,238,436
Kentucky—1927	4	298,821	5,566,889	1,195,263	9,308,023
1925	4	330,289	6,093,255	1,321,155	12,495,062
1923	*	*.....	*.....	*.....	*.....
1921	*	*.....	*.....	*.....	*.....
1919	*	*.....	*.....	*.....	*.....
1914	*	*.....	*.....	*.....	*.....
Michigan—1927	5	216,821	5,200,807	1,084,107	7,698,039
1925	5	194,349	4,623,461	971,747	9,021,561
1923	4	210,679	3,980,207	842,716	5,635,214
1921	4	213,067	4,051,094	852,268	7,411,325
1919	5	232,150	5,326,619	1,160,751	13,148,117
1914	5	241,316	5,529,015	1,206,581	6,635,901
Minnesota—1927	34	588,138	91,931,858	19,998,391	115,[illegible]
1925	36	599,577	99,988,291	21,584,766	170,709,822
1923	37	612,661	106,241,879	22,668,465	134,573,052
1921	36	626,035	105,755,669	22,537,380	203,460,120
1919	40	672,812	123,234,904	26,912,468	293,524,338
1914	34	728,314	113,835,961	24,762,693	106,536,569
Missouri—1927	18	449,340	[illegible]	7,070,112	55,800,346
1925	13	463,144	27,583,401	6,020,875	46,758,238
1923	16	338,699	24,341,432	5,419,187	31,261,625
1921	13	305,049	18,057,672	3,965,525	23,158,941
1919	21	212,527	20,605,636	4,463,073	47,916,606
1914	13	184,150	10,958,696	2,393,945	10,949,396
Montana—1927	7	223,069	6,836,671	1,561,483	10,481,048
1925	6	264,984	7,217,315	1,589,905	11,263,153
1923	6	266,738	7,026,303	1,600,427	8,809,538
1921	4	197,496	3,436,281	789,986	6,212,392
1919	3	185,635	2,426,247	556,905	5,922,147
1914	*	*.....	*.....	*.....	*.....
Nebraska—1927	8	301,173	11,041,550	2,409,387	14,654,951
1925	9	233,987	9,723,664	2,105,887	16,673,961
1923	6	281,401	8,027,034	1,688,408	9,636,968
1921	6	213,925	6,114,155	1,283,549	9,102,326
1919	8	238,245	8,860,316	1,905,962	21,171,905
1914	3	256,176	3,343,577	768,528	3,360,362
New York—1927	11	1,031,525	52,143,449	11,346,770	82,418,238
1925	10	1,167,851	53,371,806	11,678,513	94,314,525
1923	10	788,007	35,271,927	7,880,072	47,[illegible]
1921	10	714,045	31,920,359	7,160,418	64,936,198
1919	12	643,856	36,907,945	7,726,272	84,973,640
1914	13	547,905	31,499,783	7,122,767	33,188,685
North Carolina—1927	4	178,589	3,236,760	[illegible]	5,081,723
1925	4	185,002	3,333,138	740,007	6,705,182
1923	4	159,965	2,930,614	639,861	4,424,786
1921	3	177,554	2,533,176	532,662	4,708,443
1919	4	139,026	2,673,333	556,102	6,658,587
1914	*	*.....	*.....	*.....	*.....
North Dakota—1927	*	*.....	*.....	*.....	*.....
1925	*	*.....	*.....	*.....	*.....
1923	*	*.....	*.....	*.....	*.....
1921	6	252,833	7,114,770	1,516,996	11,864,106
1919	7	238,487	7,595,382	1,669,406	18,760,316
1914	7	200,846	6,749,796	1,405,922	6,424,646
Ohio—1927	7	371,593	11,616,973	2,601,191	15,817,312
1925	11	246,399	12,503,496	2,710,385	21,256,114
1923	9	262,527	10,716,767	2,362,747	13,275,491
1921	8	211,677	7,803,785	1,693,413	12,138,825
1919	10	266,588	12,234,601	[illegible]	29,113,132
1914	11	240,475	12,443,402	2,645,228	12,333,911
Oklahoma—1927	12	192,166	10,509,219	2,305,993	15,240,120
1925	11	168,221	8,464,690	1,850,424	14,127,275
1923	8	199,580	7,319,588	1,826,632	8,722,401
1921	9	189,802	7,697,360	1,708,229	10,680,893
1919	13	192,666	11,326,074	2,504,653	26,601,376
1914	7	156,619	4,966,800	1,096,332	[illegible]
Oregon—1927	8	250,627	9,128,229	2,005,017	12,675,779
1925	8	266,340	9,940,485	2,130,717	15,176,447
1923	7	355,026	11,580,161	2,485,674	13,281,533
1921	7	277,107	8,734,807	1,939,748	11,526,871
1919	9	287,311	11,375,055	2,585,790	26,836,158
1914	3	357,644	4,884,608	1,072,931	4,354,714
Pennsylvania—1927	*	*.....	*.....	*.....	*.....
1925	*	*.....	*.....	*.....	*.....
1923	*	*.....	*.....	*.....	*.....
1921	3	223,525	2,999,674	670,575	4,444,553
1919	4	191,975	3,567,395	767,901	9,575,947
1914	4	287,120	5,277,486	1,148,481	5,660,077
Tennessee—1927	7	191,615	6,239,310	1,341,323	10,538,474
1925	5	219,734	5,115,943	1,098,669	10,447,914
1923	5	271,163	6,340,539	1,355,517	8,823,060
1921	6	272,342	5,203,366	1,089,367	9,133,801
1919	6	240,211	6,784,612	1,441,264	[illegible]
1914	6	295,947	6,653,346	1,479,937	7,063,074
Texas—1927	15	239,865	14,335,449	3,597,983	26,089,606
1925	17	[illegible]	16,181,233	3,515,094	30,550,956
1923	15	201,723	14,050,027	3,025,847	19,265,965
1921	13	212,772	12,663,848	2,766,031	22,959,459
1919	14	[illegible]	14,432,292	3,137,095	[illegible]
1914	11	200,454	[illegible]	2,204,994	11,508,637
Utah—1927	3	[illegible]	4,039,641	848,399	[illegible]
1925	3	237,523	[illegible]	[illegible]	[illegible]
1923	*	*.....	*.....	*.....	*.....
1921	*	*.....	*.....	*.....	*.....
1919	*	*.....	*.....	*.....	*.....
1914	*	*.....	*.....	*.....	*.....
Virginia—1927	3	135,206	1,804,871	405,618	2,851,535
1925	5	123,302	2,839,936	616,508	5,208,257
1923	*	*.....	*.....	*.....	*.....
1921	*	*.....	*.....	*.....	*.....
1919	*	*.....	*.....	*.....	*.....
1914	*	*.....	*.....	*.....	*.....

CENSUS OF MILLS PRODUCING 100,000 BBLS OF WHEAT FLOUR OR MORE, 1914-1927 (CONTINUED)

Census year	No. of estab-lishments	Av'ge production per establish-ment, bbls	Wheat used, bus	Flour produced, bbls	Value
Washington—1927	10	397,719	18,971,891	3,977,191	25,050,459
1925	9	309,583	13,085,699	2,786,247	20,431,512
1923	10	411,311	19,274,761	4,113,113	21,521,793
1921	13	273,536	16,408,716	3,555,974	24,686,446
1919	13	343,030	20,062,186	4,459,387	46,264,550
1914	8	303,323	10,932,955	2,426,583	10,049,419
Wisconsin—1927	*	*.....	*.....	*.....	*.....
1925	4	355,299	6,461,632	1,421,195	10,876,519
1923	4	382,776	5,903,935	1,331,103	7,728,734
1921	6	277,666	5,236,614	1,110,664	8,603,399
1919	5	397,308	8,794,599	1,986,538	20,868,239
1914	4	540,716	9,422,339	2,162,869	9,324,211
All other states—1927	28	245,704	31,531,114	6,879,704	48,160,317
1925	27	218,757	27,396,292	5,906,430	46,603,606
1923	37	220,194	37,406,349	8,119,347	48,913,331
1921	14	213,452	13,787,062	2,988,323	26,213,526
1919	14	254,336	18,022,196	3,560,703	38,468,569
1914	17	209,641	16,452,026	3,563,891	16,981,851
Totals, U. States—1927..	255	358,713	419,009,521	91,471,494	$635,544,476
1925	247	351,443	399,693,751	86,806,475	687,431,456
1923	247	343,468	392,636,051	84,975,638	493,767,772
1921	239	321,835	354,118,380	76,918,661	618,484,195
1919	274	331,495	415,740,379	90,829,763	984,602,277
1914	213	353,789	329,209,225	71,809,950	324,104,683

*Included under "all other states."

MILLS PRODUCING 1,000 BBLS OF WHEAT FLOUR OR MORE, BY STATES, 1909-1927

State—Census year—	Number of establishments	Wheat used, bus	Wheat flour produced— Quantity, bbls	Value
United States—1927*	2,524	540,162,619	117,360,523	$814,561,946
1925*	2,606	526,476,115	113,700,815	902,215,493
1923*	3,088	531,935,511	114,052,165	660,971,781
1921*	3,845	517,220,866	110,326,161	867,926,291
1919	4,692	607,066,887	131,595,773	1,426,503,672
1914	5,065	542,620,843	115,686,750	540,107,717
1909	5,621	491,224,288	105,094,806	646,352,669
Minnesota—1927*	95	95,479,892	20,785,077	160,984,406
1925*	105	104,855,784	22,627,702	179,163,929
1923*	115	111,770,661	23,675,329	140,683,996
1921*	143	111,523,927	23,726,796	212,899,851
1919	190	130,809,031	28,493,454	311,627,174
1914	211	124,267,178	27,117,914	117,908,616
1909	248	104,251,138	22,771,362	114,436,768
Kansas—1927*	118	79,699,925	17,561,201	111,503,517
1925*	127	69,755,718	15,296,261	114,039,819
1923*	137	73,014,088	15,860,965	84,476,080
1921*	159	82,329,134	17,332,715	123,533,237
1919	190	73,907,376	16,160,052	171,482,381
1914	172	59,919,438	12,772,478	56,489,465
1909	209	49,607,646	10,879,028	52,545,343
New York—1927*	76	56,664,618	12,306,489	89,672,826
1925*	78	57,339,305	12,523,391	103,899,083
1923*	97	40,302,008	8,949,096	54,388,188
1921*	104	37,620,165	8,373,463	74,640,742
1919	129	43,203,302	9,026,497	99,673,171
1914	143	38,039,814	8,492,489	40,641,848
1909	165	29,755,919	6,666,696	35,485,642
Missouri—1927*	136	43,322,745	9,613,240	66,135,481
1925*	161	36,352,811	7,899,181	62,069,164
1923*	205	33,824,345	7,436,052	42,461,232
1921*	241	28,787,855	6,242,457	46,180,428
1919	307	32,449,767	7,075,525	74,624,403
1914	355	25,036,518	5,354,186	25,381,618
1909	388	26,763,418	5,633,384	29,837,155
Illinois—1927*	72	23,568,714	5,087,861	35,652,692
1925*	93	23,920,812	5,164,650	42,258,207
1923*	112	26,393,125	5,506,358	22,781,787
1921*	141	23,886,987	5,204,842	38,667,907
1919	163	33,334,928	7,244,663	77,642,392
1914	189	30,940,199	6,627,369	31,815,570
1909	222	30,137,416	6,369,296	33,900,076
Washington—1927*	32	22,296,799	4,602,936	28,854,320
1925*	41	16,504,053	3,764,486	25,450,895
1923*	38	22,707,158	4,817,046	25,248,098
1921*	61	20,765,673	4,468,356	30,485,498
1919	60	26,811,418	5,904,806	60,840,166
1914	67	17,546,245	3,760,873	15,661,494
1909	60	12,717,225	2,797,792	12,456,660
Texas—1927*	58	20,186,478	4,697,596	33,973,220
1925*	58	20,584,943	4,472,616	38,780,422
1923*	71	18,689,029	4,014,946	25,657,636
1921*	96	18,481,692	4,002,035	33,248,321
1919	110	21,288,674	4,573,889	52,624,883
1914	80	18,957,182	4,085,185	21,783,232
1909	84	15,396,223	3,336,221	19,084,912
Ohio—1927*	213	20,204,227	4,416,549	28,027,637
1925*	233	20,308,123	4,330,531	34,499,514
1923*	278	19,941,900	4,290,410	24,075,224
1921*	325	18,362,038	3,821,328	27,703,285
1919	411	26,016,065	5,738,298	62,821,141
1914	461	27,581,757	5,667,605	27,640,879
1909	577	27,142,976	5,687,729	30,311,038
Indiana—1927*	161	17,912,468	3,689,803	29,653,171
1925*	161	16,466,188	3,549,155	28,825,570
1923*	196	15,606,981	3,277,524	18,825,387
1921*	237	15,592,906	3,230,279	24,711,161
1919	285	19,897,063	4,276,959	46,765,527
1914	338	21,036,091	4,494,402	21,016,636
1909	411	22,825,173	4,770,061	25,186,116
Pennsylvania—1927*	286	10,367,069	2,092,440	13,952,777
1925*	278	10,241,979	2,036,965	16,352,145
1923*	313	11,067,376	2,261,478	12,583,030
1921*	406	14,154,829	2,911,793	20,233,837
1919	454	15,262,871	3,184,009	35,404,057
1914	534	18,759,381	3,857,993	18,186,814
1909	586	17,577,225	3,610,339	19,393,169
Oklahoma—1927*	35	13,049,579	2,861,423	19,043,389
1925*	35	11,844,099	2,306,707	18,207,261
1923*	41	10,814,455	2,347,729	12,887,036
1921*	62	12,681,336	2,777,483	17,973,681
1919	76	15,735,526	3,453,932	36,932,186
1914	56	9,672,492	2,068,536	9,814,280
1909	77	10,017,098	2,199,995	10,932,512
Oregon—1927*	38	10,689,658	2,315,003	14,624,610
1925*	42	11,968,587	2,546,106	18,068,619
1923*	47	14,162,943	3,028,643	16,204,757
1921*	55	11,472,457	2,521,298	14,927,303
1919	73	14,945,031	3,334,000	34,392,636
1914	63	8,597,961	1,783,023	7,706,536
1909	95	6,385,346	1,367,393	5,900,094
Nebraska—1927*	94	15,317,307	3,316,328	22,409,258
1925*	101	16,466,188	3,540,155	28,825,570
1923*	120	12,776,058	2,671,671	15,031,913
1921*	134	11,108,474	2,333,942	16,386,001
1919	182	15,890,652	3,404,637	37,923,944
1914	168	11,368,083	2,375,810	10,906,829
1909	189	10,712,479	2,264,861	11,431,605
Tennessee—1927*	122	10,763,053	2,333,602	18,538,594
1925*	125	10,588,905	2,227,944	20,772,367
1923*	144	11,389,252	2,403,111	15,719,859
1921*	177	10,536,146	2,197,370	18,364,601
1919	229	12,727,277	3,005,468	30,472,192
1914	290	14,303,610	3,037,904	15,321,426
1909	274	14,186,775	2,965,687	17,005,638

MILLS PRODUCING 1,000 BBLS OF WHEAT FLOUR OR MORE, BY STATES (Continued)

State—Census year—	Number of establishments	Wheat used, bus	Wheat flour produced— Quantity, bbls	Value
Michigan—1927*	108	10,577,075	2,228,098	16,307,232
1925*	112	10,811,676	2,263,660	19,529,952
1923*	139	10,370,536	2,114,339	12,896,923
1921*	158	10,039,281	2,106,654	16,791,297
1919	178	11,819,206	2,498,449	27,926,952
1914	238	14,387,264	3,010,667	15,809,521
1909	293	9,360,260	2,005,132	16,843,317
Kentucky—1927*	134	9,500,880	2,006,648	15,942,553
1925*	137	9,723,306	2,068,193	19,768,655
1923*	163	10,911,743	2,329,703	15,305,327
1921*	203	9,360,260	2,005,132	16,843,317
1919	234	12,166,540	2,634,387	[illegible]
1914	286	12,956,108	2,696,843	[illegible]
1909	303	13,454,022	2,808,618	15,771,699
North Dakota—1927*	22	5,956,961	1,292,901	[illegible]
1925*	[illegible]	7,919,376	1,695,607	[illegible]
1923*	[illegible]	12,626,136	2,667,974	15,776,511
1921*	[illegible]	9,411,149	1,992,138	15,492,629
1919	[illegible]	10,041,186	2,215,676	[illegible]
1914	[illegible]	10,390,983	2,163,938	[illegible]
1909	[illegible]	8,808,002	1,823,146	9,019,424
California—1927*	28	9,274,185	1,964,320	14,104,748
1925*	28	7,747,003	1,614,604	13,926,592
1923*	30	12,139,595	2,606,881	15,682,533
1921*	35	9,308,273	1,971,284	16,210,570
1919	48	15,682,760	3,378,705	37,256,165
1914	49	9,530,954	1,778,346	[illegible]
1909	64	8,709,682	1,800,349	[illegible]
Virginia—1927*	148	7,527,668	1,664,297	[illegible]
1925*	166	7,451,585	1,568,117	[illegible]
1923*	200	7,963,616	1,674,836	10,027,359
1921*	239	8,097,246	1,712,238	[illegible]
1919	266	10,121,257	2,137,906	[illegible]
1914	299	9,923,462	2,099,328	10,346,319
1909	246	8,880,618	1,842,774	9,936,242
Wisconsin—1927*	35	4,769,713	1,035,325	[illegible]
1925*	43	7,187,290	1,576,476	[illegible]
1923*	49	7,038,148	1,562,131	9,164,446
1921*	76	7,897,927	1,684,120	12,833,885
1919	106	13,273,354	2,796,476	[illegible]
1914	98	13,676,817	3,030,863	[illegible]
1909	149	16,096,486	3,468,816	17,746,544
Colorado—1927*	38	7,128,759	1,623,176	[illegible]
1925*	37	7,678,453	1,742,041	[illegible]
1923*	42	6,706,180	1,516,596	8,370,948
1921*	46	6,596,632	1,478,358	12,435,435
1919	47	6,920,735	1,476,280	14,593,615
1914	42	5,728,302	1,226,731	[illegible]
1909	39	4,539,520	975,067	[illegible]
North Carolina—1927*	114	7,983,254	1,701,921	12,453,960
1925*	91	7,123,430	1,667,352	13,420,156
1923*	99	5,987,244	1,279,806	8,524,400
1921*	138	6,454,847	1,318,139	[illegible]
1919	193	5,996,439	1,268,823	[illegible]
1914	191	4,605,653	931,982	5,122,226
1909	157	3,562,067	729,624	4,573,527
Montana—1927*	32	8,478,639	1,918,623	12,927,166
1925*	26	8,948,772	1,963,222	14,076,331
1923*	30	8,586,712	1,936,300	10,660,826
1921*	39	5,626,281	1,274,401	9,854,959
1919	41	5,686,103	1,263,457	13,664,453
1914	26	4,134,087	870,065	3,908,795
1909	12	1,701,689	376,440	1,560,651
Maryland—1927*	59	4,140,433	866,656	5,707,353
1925*	68	3,438,846	726,250	5,550,306
1923*	73	5,016,470	1,027,814	5,570,374
1921*	97	4,343,504	914,984	[illegible]
1919	122	5,532,610	1,247,409	[illegible]
1914	127	5,161,046	1,073,760	[illegible]
1909	166	5,230,551	1,091,390	[illegible]
Iowa—1927*	33	6,235,629	1,326,587	9,457,643
1925*	37	6,333,230	1,316,717	10,443,350
1923*	47	5,890,906	1,230,876	7,684,391
1921*	64	4,814,039	901,571	8,391,182
1919	78	5,862,681	1,328,257	13,673,743
1914	92	7,039,082	1,473,196	7,066,637
1909	122	6,933,594	1,506,009	7,561,456
Idaho—1927*	33	3,434,188	769,603	4,504,664
1925*	27	3,625,789	782,827	5,057,765
1923*	33	4,064,747	901,062	4,356,318
1921*	41	3,656,674	786,089	5,301,153
1919	52	5,095,233	1,100,140	11,039,369
1914	42	2,892,909	568,711	2,247,153
1909	44	1,874,068	386,037	1,813,831
Utah—1927*	59	6,045,794	1,267,329	7,744,570
1925*	48	4,838,546	1,038,691	7,551,593
1923*	56	3,579,771	766,660	4,031,445
1921*	64	3,468,427	740,574	4,629,858
1919	67	2,662,506	541,156	5,665,917
1914	61	2,502,200	500,722	2,217,469
1909	56	2,255,091	468,498	2,350,911
Georgia—1927*	12	2,418,102	511,190	4,124,103
1925*	11	2,718,160	575,990	5,275,342
1923*	15	2,871,613	614,334	4,134,670
1921*	22	2,423,394	536,668	4,918,590
1919	18	2,181,977	486,164	5,707,132
1914	17	1,576,623	340,075	2,104,720
1909	27	1,891,099	410,120	2,603,394
South Dakota—1927*	20	1,555,709	327,964	2,155,357
1925*	19	1,600,760	330,312	2,042,421
1923*	24	1,592,935	331,529	1,950,828
1921*	33	1,749,224	351,728	2,969,979
1919	51	2,982,472	626,365	7,126,927
1914	63	4,486,332	919,443	4,455,574
1909	76	4,685,650	965,970	5,055,322
West Virginia—1927*	32	1,284,033	270,568	1,916,469
1925*	35	1,303,886	270,663	2,374,637
1923*	54	1,314,666	267,758	1,601,104
1921*	73	1,552,630	351,589	2,807,558
1919	90	2,730,870	546,762	6,188,739
1914	92	2,357,728	485,699	2,542,048
1909	101	2,968,102	608,953	3,469,308
Wyoming†—1927*	7	510,600	110,534	635,785
1925*	8	653,775	138,625	1,055,291
1923*	11	692,691	154,888	854,137
1921*	13	997,044	216,272	1,510,606
1919	17	474,561	101,294	1,127,715
Arkansas—1927*	11	584,835	116,243	[illegible]
1925*	11	595,260	121,110	[illegible]
1923‡	..	......	......	......
1921*	23	843,287	171,033	1,365,529
1919	62	1,558,666	337,559	3,686,041
1914	41	1,360,845	283,878	1,469,060
1909	38	1,096,820	231,444	1,260,509
New Jersey—1927*	10	702,093	157,737	1,155,529
1925*	11	663,396	137,093	1,202,021
1923*	13	599,533	122,862	797,562
1921*	19	678,327	138,557	1,138,273
1919	27	542,324	111,622	1,307,284
1914	36	789,174	158,504	373,921
1909	68	1,296,188	261,421	1,444,109

CENSUS OF WHEAT FLOUR MILLS, 1909 TO 1927

Merchant mills manufacturing wheat flour, grouped according to number of bbls produced

Census Year—	Total number of mills	Less than 1,000 bbls	1,000 but less than 5,000 bbls	5,000 but less than 20,000 bbls	20,000 but less than 100,000 bbls	100,000 bbls or more
UNITED STATES						
1927†...	3,146	622	1,276	642	352	255
1925†...	3,249	643	1,341	667	351	247
1923†...	3,829	741	1,686	769	386	247
1921*...	4,809	964	2,256	930	420	239
1919....	6,733	2,041	2,739	1,186	494	274
1914....	6,876	1,821	2,920	1,377	540	218
1909....	7,342	1,721	3,145	1,733	550	193
ARIZONA						
1927†...	6	..	1	1	4	..
ARKANSAS						
1927†...	16	5	7	2	2	..
1925†...	16	5	8	2	1	..
1923†...	23	12	7	3	1	..
1921*...	50	17	29	2	2	..
1919....	96	34	53	7	1	1
1914....	58	17	30	9	2	..
1909....	51	13	30	6	2	..
CALIFORNIA						
1927†...	33	5	14	3	7	4
1925†...	29	1	12	3	8	5
1923†...	36	6	10	6	7	7
1921*...	39	4	15	8	7	5
1919....	59	10	21	12	10	6
1914....	59	10	23	12	9	5
1909....	66	12	22	19	9	4
COLORADO						
1927†...	45	7	15	7	10	6
1925†...	41	4	10	9	12	6
1923†...	42	..	16	7	14	5
1921*...	49	3	15	11	16	4
1919....	60	13	15	10	18	4
1914....	48	6	13	12	13	4
1909....	48	9	13	14	10	2
DELAWARE						
1927†...	24	7	13	4	..	..
1925†...	21	6	11	4	..	..
1923†...	23	8	11	4	..	..
1921....	35	10	19	6	..	..
GEORGIA						
1927†...	17	5	6	2	2	2
1925†...	18	7	6	..	3	2
1923†...	22	7	9	1	3	2
1921*...	37	15	14	3	3	4
1919....	33	14	9	3	5	2
1914....	46	29	10	3	3	1
1909....	47	20	18	5	3	1
IDAHO						
1927†...	37	3	11	5	15	1
1925†...	32	5	7	6	13	1
1923†...	37	4	13	6	13	1
1921*...	44	3	19	9	13	..
1919....	64	12	23	12	15	2
1914....	51	9	18	16	9	..
1909....	48	4	19	21	4	..
ILLINOIS						
1927†...	87	16	18	20	23	11
1925†...	113	20	33	27	22	11
1923†...	130	18	36	35	31	11
1921*...	166	25	49	47	35	10
1919....	212	49	67	63	38	15
1914....	253	64	83	52	42	12
1909....	309	87	87	76	47	12
INDIANA						
1927†...	184	23	99	36	17	9
1925†...	193	32	95	43	15	8
1923†...	227	31	123	49	16	8
1921*...	275	38	160	62	17	8
1919....	352	67	179	81	16	9
1914....	417	79	197	106	28	7
1909....	463	52	227	148	28	8
IOWA						
1927†...	52	19	19	7	4	3
1925†...	60	23	23	8	3	3
1923†...	70	23	27	11	5	4
1921*...	93	29	44	13	5	2
1919....	111	55	45	21	10	1
1914....	160	58	52	35	11	4
1909....	195	73	64	44	11	3
KANSAS						
1927†...	129	11	21	10	36	51
1925†...	132	5	16	18	52	41
1923†...	139	2	18	17	59	43
1921*...	167	8	25	19	50	65
1919....	213	23	41	38	59	52
1914....	199	27	23	41	63	45
1909....	255	46	32	61	81	35
KENTUCKY						
1927†...	160	26	80	45	5	4
1925†...	165	28	92	37	4	4
1923†...	194	31	110	43	6	4
1921*...	243	40	146	50	5	2
1919....	341	110	166	54	10	1
1914....	350	64	180	94	10	2
1909....	353	50	188	99	14	2
MARYLAND						
1927†...	78	19	34	16	7	2
1925†...	86	28	30	21	6	1
1923†...	103	30	40	23	7	3
1921*...	132	35	66	23	6	2
1919....	201	79	86	24	10	2
1914....	203	76	87	32	6	2
1909....	235	79	114	37	3	2
MICHIGAN						
1927†...	138	30	67	26	20	5
1925†...	144	32	60	27	20	5
1923†...	170	31	85	33	17	4
1921*...	192	34	100	38	16	4
1919....	262	84	112	45	16	5
1914....	341	103	142	70	21	5
1909....	389	96	175	87	21	7
MINNESOTA						
1927†...	107	12	29	21	11	34
1925†...	112	7	29	28	12	36
1923†...	129	11	35	30	13	37
1921*...	158	15	60	30	17	36
1919....	215	25	82	50	18	40
1914....	240	29	80	47	30	34
1909....	270	22	96	87	33	32
MISSOURI						
1927†...	175	39	63	28	22	18
1925†...	195	34	87	30	31	13
1923†...	242	37	117	44	26	16
1921*...	258	47	142	55	31	13
1919....	469	162	156	66	34	21
1914....	477	122	219	84	39	13
1909....	499	111	237	105	32	14
MONTANA						
1927†...	36	4	14	6	5	7
1925†...	27	2	10	4	5	6
1923†...	34	4	12	5	7	6
1921*...	43	4	18	6	11	4
1919....	54	15	18	6	12	3
1914....	29	3	9	9	6	2
1909....	12	..	3	5	4	..
NEBRASKA						
1927†...	110	16	46	30	10	8
1925†...	110	13	50	33	8	6
1923†...	125	5	69	22	13	6
1921*...	147	13	75	42	11	6
1919....	190	24	94	53	17	2
1914....	190	22	74	73	18	3
1909....	203	14	86	79	23	1
NEW JERSEY						
1927†...	16	6	6	2	1	1
1925†...	21	10	7	3	..	1
1923†...	23	10	10	2	1	..
1921*...	31	12	14	4	1	..
1919....	54	31	19	4	..	..
1914....	66	30	25	10	1	..
1909....	100	43	40	17	1	..
NEW YORK						
1927†...	106	30	22	31	12	11
1925†...	103	25	27	32	9	10
1923†...	127	30	39	36	12	10
1921*...	162	59	41	29	14	19
1919....	237	88	59	41	37	12
1914....	244	101	69	42	19	13
1909....	270	105	86	49	19	11
NORTH CAROLINA						
1927†...	137	23	63	36	11	4
1925†...	106	16	49	31	7	3
1923†...	129	30	60	29	6	4
1921*...	173	36	95	34	6	2
1919....	290	97	150	38	1	4
1914....	239	48	137	49	5	..
1909....	208	51	120	34	3	..
NORTH DAKOTA						
1927†...	25	3	6	6	5	5
1925†...	28	4	7	5	6	6
1923†...	36	4	8	8	8	8
1921*...	48	2	22	11	7	6
1919....	77	17	29	13	11	7
1914....	56	4	17	15	13	7
1909....	64	4	10	26	15	9
OHIO						
1927†...	256	43	121	66	19	7
1925†...	269	36	141	62	18	11
1923†...	328	60	175	72	21	9
1921*...	359	34	203	96	18	8
1919....	492	81	243	131	27	10
1914....	549	88	282	145	23	11
1909....	593	66	296	188	33	10
OKLAHOMA						
1927†...	42	7	6	8	9	12
1925†...	39	4	8	5	11	11
1923†...	46	5	11	8	14	8
1921*...	68	6	24	12	17	9
1919....	103	27	28	18	17	13
1914....	79	23	16	16	18	7
1909....	92	15	16	34	22	5
OREGON						
1927†...	44	6	15	12	3	8
1925†...	50	8	15	14	5	8
1923†...	51	4	20	11	9	7
1921*...	65	10	22	16	10	7
1919....	97	24	25	26	13	9
1914....	84	21	30	21	9	3
1909....	104	9	46	38	8	3
PENNSYLVANIA						
1927†...	339	103	196	67	21	2
1925†...	351	113	158	70	19	1
1923†...	452	139	219	75	17	2
1921*...	559	183	290	95	18	3
1919....	767	313	316	111	23	4
1914....	824	290	392	114	24	4
1909....	917	332	427	141	14	3
SOUTH DAKOTA						
1927†...	21	1	13	4	2	1
1925†...	22	3	8	7	3	1
1923†...	29	5	14	8	1	1
1921*...	39	6	17	13	2	1
1919....	61	10	26	17	7	1
1914....	65	2	25	24	9	2
1909....	86	10	31	33	11	1
TENNESSEE						
1927†...	146	24	67	35	13	7
1925†...	160	35	77	28	15	5
1923†...	159	45	88	40	11	5
1921*...	245	66	117	43	13	4
1919....	464	177	166	46	11	4
1914....	409	119	245	41	17	3
1909....	353	79	181	78	15	3
TEXAS						
1927†...	63	10	20	5	13	15
1925†...	65	7	21	4	16	17
1923†...	82	11	26	14	15	15
1921*...	109	13	46	16	21	13
1919....	130	20	51	25	20	14
1914....	90	10	21	16	32	11
1909....	102	18	20	33	22	9
UTAH						
1927†...	65	6	35	18	3	3
1925†...	49	1	23	21	1	3
1923†...	55	2	24	19	1	2
1921*...	66	2	40	20	2	2
1919....	75	8	40	23	4	..
1914....	49	8	28	27	6	..
1909....	59	3	24	28	4	..
VIRGINIA						
1927†...	151	33	51	51	13	3
1925†...	219	53	107	47	7	5
1923†...	256	56	135	54	7	4
1921*...	320	81	171	52	14	2
1919....	413	147	190	63	11	2
1914....	428	129	224	59	12	4
1909....	349	103	181	47	13	4
WASHINGTON						
1927†...	37	5	7	5	10	10
1925†...	51	10	15	8	9	9
1923†...	42	4	7	12	9	10
1921*...	55	4	11	15	12	13
1919....	77	13	8	15	23	13
1914....	70	13	13	14	22	8
1909....	65	5	16	16	24	4
WEST VIRGINIA						
1927†...	54	22	22	6	4	..
1925†...	63	18	22	2	3	..
1923†...	76	22	42	9	3	..
1921*...	111	34	57	12	4	..
1919....	138	78	39	35	5	..
1914....	163	71	73	14	5	..
1909....	157	66	70	25	6	..
WISCONSIN						
1927†...	73	35	25	7	2	1
1925†...	74	31	30	9	..	4
1923†...	85	31	38	7	4	4
1921*...	112	36	48	17	9	4
1919....	144	29	64	29	7	6
1914....	171	75	66	24	9	4
1909....	218	69	95	34	14	6
WYOMING						
1927†...	8	1	2	4	1	..
ALL OTHER STATES						
1927†...	44	13	16	10	5	..
1925†...	65	13	16	14	7	..
1923†...	73	20	24	11	6	1
1921*...	93	34	39	17	6	1
1919....	204	91	76	29	8	..
1914....	159	71	61	21	6	..
1909....	163	64	74	19	6	..

*The figures for 1921 do not include data for 1,514 establishments, each reporting products under $5,000 in value. The figures for 1919 include data for 1,499 such establishments; those for 1914 data for 1,436, and those for 1909 data for 1,651. †These figures do not include data for establishments each reporting products under $5,000 in value.

Number of Mills—Earlier Census Reports

The census reports covering the number of establishments engaged in milling are useful chiefly for comparative purposes, and are somewhat misleading as regards the

Number of Mills—Earlier Reports—Continued

actual number of flour mills in existence at any given period, as they include under the single heading all sorts of flour and grist mills, blending plants, cereal mills, etc. Thus the 1914 census shows a total of 10,788 establishments, which is about 3,000 in excess of the number of actual flour mills indicated by the reports of the United States Grain Corporation and the Federal Trade Commission, and by the reports received direct by The Northwestern Miller.

On the other hand the biennial census, showing as it does only merchant mills each doing a business of $5,000 in value, does not include many mills and is consequently just as difficult to regard as accurate as the quinquennial census which usually errs on the other side.

In the 1860 census the number of establishments was given as 13,856, or 3,068 more than the figure for 1914, although the total capital involved in 1860 was only about one fifth of what it had become in 1914. The total number of employees in 1860 was given as 27,727. Kansas in 1860 employed a total of 67 persons in flour milling, and Minnesota 188. The leading states were: Pennsylvania, 3,697; New York, 3,244; Ohio, 2,520; Virginia, 2,241, and Illinois, 1,942.

In 1870 the number of establishments had risen to 22,573, and the number of employees to 58,448. Pennsylvania and New York still led, with 6,427 and 5,193 persons employed respectively, but Illinois had taken third place, with 4,467. Neither Minnesota nor Kansas had as yet 1,000 persons engaged in milling.

In 1880 the number of establishments was given as 24,338, and the number of employees as 58,407. Illinois headed the list, with 4,960 persons engaged in milling, Pennsylvania (4,434) and New York (4,304) being second and third. Minnesota (2,634) had reached seventh place, and Kansas (1,332) was eighteenth.

In 1890 the number of establishments was given as 18,470, and the number of employees as 63,481. The leading states were: Pennsylvania, 5,149; New York, 4,607; Illinois, $4,385; Ohio, 4,296; Minnesota, 4,038, and Missouri, 3,865.

In 1900 the number of establishments was given as 25,258, and the number of employees as 37,073, an increase over 1890 of 37 per cent in the number of mills, and a decrease of 42 per cent in the number of employees. Minnesota headed the list, with 4,056 persons engaged in milling, followed by New York 2,489, Ohio 2,438, Pennsylvania 2,195, Indiana 2,124, and Illinois 2,111.

CENSUS REPORT—CAPITAL AND VALUE OF PRODUCTS, 1909-27

Capital invested in flour milling (reports on invested capital not called for in the 1927, 1925, 1923 and 1921 census), and total value of flour mill products, by states (000's omitted):

Year—	Capital	Value of products	Value added by manufacture
Alabama—			
1927.....	$.....	$962	$170
1925.....	.....	5,146	535
1923.....	.....	4,499	548
1921.....	.....	2,072	407
1919.....	1,356	4,565	717
1914.....	795	2,179	261
1909.....	1,079	2,779	374
Arizona—			
1927.....	.....	1,589	243
1925.....	.....	1,684	325
1923.....	.....	1,417	378
1921.....	.....	1,800	454
1919.....	3,209	2,392	425
1914.....	554	1,065	215
1909.....	674	1,317	188
Arkansas—			
1927.....	.....	5,803	1,217
1925.....	.....	5,385	629
1923.....	.....	3,473	482
1921.....	.....	4,612	750
1919.....	3,684	8,646	1,573
1914.....	1,788	5,802	[illegible]
1909.....	1,599	5,615	[illegible]
California—			
1927.....	.....	30,586	4,064
1925.....	.....	38,560	6,533
1923.....	.....	39,647	6,016
1921.....	.....	29,043	5,061
1919.....	27,078	65,448	8,566
1914.....	11,851	24,079	4,575
1909.....	13,424	25,188	3,296
Colorado—			
1927.....	.....	13,268	2,033
1925.....	.....	14,692	2,131
1923.....	.....	11,547	2,400
1921.....	.....	16,045	1,509
1919.....	8,851	19,954	2,357
1914.....	4,969	7,536	1,100
1909.....	4,835	7,868	1,196
Connecticut—			
1927.....	.....	352	66
1925.....	.....	739	136
1923.....	.....	1,200	222
1921.....	.....	1,246	241
1919.....	1,932	2,507	424
1914.....	1,214	1,881	251
1909.....	1,277	2,024	293
Delaware—			
1927.....	.....	1,037	222
1925.....	.....	806	140
1923.....	.....	650	138
1921.....	.....	952	232
1919.....	968	2,056	390
1914.....	707	1,483	281
1909.....	672	1,752	252
Florida—			
1927.....	.....	210	40
1925.....	.....	177	39
1923.....	.....	213	52
1921.....	.....	179	45
1919.....	282	568	98
1914.....	107	166	32
1909.....	61	164	25
Georgia—			
1927.....	.....	7,166	1,040
1925.....	.....	8,677	1,147
1923.....	.....	8,723	1,209
1921.....	.....	8,067	1,440
1919.....	4,085	11,991	1,443
1914.....	2,317	6,084	830
1909.....	2,749	8,000	1,271
Idaho—			
1927.....	.....	6,002	959
1925.....	.....	6,551	1,011
1923.....	.....	5,600	1,098
1921.....	.....	6,423	970
1919.....	8,798	13,501	1,673
1914.....	2,689	3,396	669
1909.....	2,038	2,480	455
Illinois—			
1927.....	.....	49,644	7,374
1925.....	.....	74,051	8,426
1923.....	.....	71,994	10,616
1921.....	.....	53,924	7,980
1919.....	46,269	116,563	13,397
1914.....	19,475	49,493	6,652
1909.....	18,454	51,111	5,521
Indiana—			
1927.....	.....	44,981	9,024
1925.....	.....	41,484	6,257
1923.....	.....	30,526	5,742
1921.....	.....	40,758	6,142
1919.....	29,940	76,111	9,271
1914.....	15,493	37,488	5,248
1909.....	15,857	40,541	5,540
Iowa—			
1927.....	.....	13,288	2,101
1925.....	.....	15,139	2,114
1923.....	.....	12,644	2,089
1921.....	.....	12,503	1,918
1919.....	9,116	21,325	2,712
1914.....	6,555	14,337	2,579
1909.....	6,123	12,871	1,937
Kansas—			
1927.....	.....	133,626	19,107
1925.....	.....	135,232	16,986
1923.....	.....	104,976	17,114
1921.....	.....	140,102	15,799
1919.....	73,137	206,881	24,548
1914.....	25,683	72,896	8,653
1909.....	22,741	68,476	8,038
Kentucky—			
1927.....	.....	24,995	4,916
1925.....	.....	29,940	4,831
1923.....	.....	24,333	4,563
1921.....	.....	23,065	4,560
1919.....	22,789	45,774	6,193
1914.....	10,275	21,229	3,810
1909.....	9,010	22,365	3,701
Maine—			
1927.....	.....	2,233	229
1925.....	.....	2,906	307
1923.....	.....	2,946	395
1921.....	.....	2,848	652
1919.....	2,706	5,443	734
1914.....	2,236	4,426	467
1909.....	1,916	4,607	480
Maryland—			
1927.....	.....	9,914	1,534
1925.....	.....	9,073	1,134
1923.....	.....	8,356	999
1921.....	.....	9,348	2,066
1919.....	7,504	19,004	2,647
1914.....	3,835	8,164	1,246
1909.....	3,729	9,268	1,266
Massachusetts—			
1927.....	.....	4,380	634
1925.....	.....	3,724	447
1923.....	.....	3,447	398
1921.....	.....	3,451	622
1919.....	3,136	4,878	629
1914.....	2,519	3,811	387
1909.....	2,222	4,632	501
Michigan—			
1927.....	.....	21,612	3,329
1925.....	.....	26,757	3,254
1923.....	.....	21,079	3,204
1921.....	.....	23,461	3,628
1919.....	18,096	44,144	5,959
1914.....	10,050	27,381	4,082
1909.....	11,147	34,861	5,501
Minnesota—			
1927.....	.....	185,141	26,840
1925.....	.....	215,638	25,683
1923.....	.....	177,391	22,766
1921.....	.....	253,669	44,310
1919.....	111,366	381,249	43,376
1914.....	46,411	148,244	20,929
1909.....	38,595	139,136	14,919
Mississippi—			
1927*....	.....	...	...
1925.....	.....	2,818	292
1923.....	.....	1,295	228
1921.....	.....	1,259	160
1919.....	606	2,092	195
1914.....	140	410	66
1909.....	71	153	21
Missouri—			
1927.....	.....	87,706	12,583
1925.....	.....	82,443	9,410
1923.....	.....	62,196	10,703
1921.....	.....	61,492	10,874
1919.....	46,750	113,297	15,113
1914.....	19,100	38,686	5,424
1909.....	17,066	44,508	5,682
Montana—			
1927.....	.....	14,790	2,468
1925.....	.....	16,607	2,189
1923.....	.....	12,355	1,816
1921.....	.....	11,066	1,949
1919.....	9,727	16,386	2,294
1914.....	3,888	4,890	988
1909.....	2,559	2,175	482
Nebraska—			
1927.....	.....	30,303	5,262
1925.....	.....	29,155	3,863
1923.....	.....	23,403	3,916
1921.....	.....	20,216	3,139
1919.....	19,122	53,521	5,962
1914.....	8,025	15,022	2,039
1909.....	9,472	17,836	2,618
New Hampshire—			
1927.....	.....	1,030	181
1925.....	.....	1,389	242
1923.....	.....	2,137	376
1921.....	.....	2,180	311
1919.....	1,419	3,391	465
1914.....	1,427	2,734	312
1909.....	1,329	3,187	379
New Jersey—			
1927.....	.....	2,879	676
1925.....	.....	3,190	551
1923.....	.....	3,007	607
1921.....	.....	3,506	778
1919.....	3,024	6,040	1,004
1914.....	2,616	4,320	730
1909.....	3,227	5,538	976
New Mexico—			
1927.....	.....	420	78
1925.....	.....	516	96
1923.....	.....	340	79
1921.....	.....	677	151
1919.....	1,023	1,324	232
1914.....	231	426	87
1909.....	257	462	108
New York—			
1927.....	.....	113,606	18,393
1925.....	.....	161,600	19,218
1923.....	.....	89,848	13,110
1921.....	.....	106,063	15,320
1919.....	[illegible]	166,272	19,638
1914.....	[illegible]	77,409	9,986
1909.....	30,270	69,802	9,332
North Carolina—			
1927.....	.....	17,863	2,800
1925.....	.....	18,202	2,974
1923.....	.....	12,688	1,987
1921.....	.....	14,769	2,620
1919.....	7,408	24,358	3,213
1914.....	3,577	8,964	1,320
1909.....	2,643	8,501	1,214
North Dakota—			
1927.....	.....	11,042	2,160
1925.....	.....	16,063	2,609
1923.....	.....	18,594	2,344
1921.....	.....	16,940	2,277
1919.....	[illegible]	29,282	3,059
1914.....	[illegible]	12,030	1,959
1909.....	[illegible]	11,686	1,630
Ohio—			
1927.....	.....	41,697	6,009
1925.....	.....	51,265	6,375
1923.....	.....	43,043	6,476
1921.....	.....	39,619	6,136
1919.....	32,285	89,397	12,295
1914.....	[illegible]	46,171	6,214
1909.....	[illegible]	48,093	6,741
Oklahoma—			
1927.....	.....	25,950	3,621
1925.....	.....	26,881	3,549
1923.....	.....	20,837	3,888
1921.....	.....	23,132	3,479
1919.....	18,746	49,844	5,664
1914.....	6,508	16,689	2,322
1909.....	7,691	19,144	2,652
Oregon—			
1927.....	.....	21,201	2,401
1925.....	.....	28,179	3,536
1923.....	.....	23,923	3,462
1921.....	.....	21,997	2,773
1919.....	23,100	42,560	4,748
1914.....	9,076	11,193	1,365
1909.....	5,670	8,891	1,224
Pennsylvania—			
1927.....	.....	30,661	4,861
1925.....	.....	33,196	4,982
1923.....	.....	28,946	5,040
1921.....	.....	39,765	7,500
1919.....	32,374	69,446	9,462
1914.....	23,352	43,626	6,529
1909.....	21,277	44,783	6,612
Rhode Island—			
1927.....	.....	581	67
1925.....	.....	859	74
1923.....	.....	1,102	139
1921.....	.....	876	107
1919.....	830	1,133	165
1914.....	352	798	107
1909.....	357	886	96
South Carolina—			
1927.....	.....	2,420	320
1925.....	.....	1,649	238
1923.....	.....	2,087	382
1921.....	.....	1,598	311
1919.....	691	2,147	342
1914.....	222	421	74
1909.....	110	361	42
South Dakota—			
1927.....	.....	2,684	676
1925.....	.....	3,220	386
1923.....	.....	2,400	347
1921.....	.....	3,564	763
1919.....	3,746	8,873	982
1914.....	2,866	5,657	836
1909.....	2,873	6,208	872
Tennessee—			
1927.....	.....	20,533	4,974
1925.....	.....	31,810	6,217
1923.....	.....	27,793	4,630
1921.....	.....	27,074	4,332
1919.....	19,478	51,913	6,736
1914.....	10,339	26,414	4,342
1909.....	8,511	29,070	3,784
Texas—			
1927.....	.....	49,230	8,369
1925.....	.....	54,528	8,561
1923.....	.....	40,044	7,345
1921.....	.....	43,695	7,627
1919.....	40,453	73,064	9,666
1914.....	17,624	36,110	6,637
1909.....	13,219	32,455	3,628
Utah—			
1927.....	.....	10,104	1,382
1925.....	.....	9,194	1,638
1923.....	.....	6,012	906
1921.....	.....	5,476	740
1919.....	3,329	7,569	1,017
1914.....	2,090	3,166	619
1909.....	2,042	3,131	620
Vermont—			
1927.....	.....	2,929	275
1925.....	.....	8,369	1,624
1923.....	.....	[illegible]	485
1921.....	.....	[illegible]	656
1919.....	3,036	6,144	812
1914.....	1,600	[illegible]	484
1909.....	1,562	[illegible]	605
Virginia—			
1927.....	.....	17,636	2,952
1925.....	.....	19,872	3,078
1923.....	.....	17,663	3,113
1921.....	.....	19,523	2,742
1919.....	23,523	36,164	[illegible]
1914.....	8,911	18,084	[illegible]
1909.....	8,700	17,593	2,434
Washington—			
1927.....	.....	44,904	6,117
1925.....	.....	39,832	6,381
1923.....	.....	39,026	6,027
1921.....	.....	43,458	7,950
1919.....	39,059	81,141	[illegible]
1914.....	16,506	23,665	[illegible]
1909.....	11,077	17,863	2,379
West Virginia—			
1927.....	.....	6,817	1,239
1925.....	.....	6,344	1,054
1923.....	.....	6,217	1,124
1921.....	.....	5,728	1,061
1919.....	5,520	13,077	2,546
1914.....	3,812	7,053	1,124
1909.....	3,766	7,696	1,095
Wisconsin—			
1927.....	.....	15,702	2,235
1925.....	.....	22,415	2,422
1923.....	.....	24,408	3,519
1921.....	.....	25,779	2,441
1919.....	16,946	58,304	6,668
1914.....	10,789	28,697	3,718
1909.....	10,663	31,667	4,629
Wyoming—			
1927.....	.....	766	203
1925.....	.....	1,272	266
1923.....	.....	991	151
1921.....	.....	1,947	217
1919.....	1,116	1,411	[illegible]
1914.....	479	722	167
1909.....	440	746	163
Other states—			
1927.....	.....	4,507	1,059
1925.....	.....	1,898	357
1923.....	.....	912	147
1921.....	.....	1,620	259
1919.....	1,646	3,401	416
1914.....	781	1,152	179
1909.....	1,689	2,047	279
United States—			
1927.....	$.....	$1,148,760	$176,049
1925.....	.....	1,208,015	172,636
1923.....	.....	1,048,577	162,606
1921.....	.....	1,179,740	185,930
1919.....	801,627	2,052,434	253,253
1914.....	380,257	877,680	125,410
1909.....	349,162	883,584	116,008

*Not reported separately in 1927.

CENSUS REPORT—EMPLOYEES IN MILLING, 1909 TO 1927

	Proprietors, etc.	Salaried employees	Wage earners, average	Total
Alabama—				
1927*....	20	8	41	69
1925*....	29	59	161	249
1923*....	38	56	172	266
1921*....	65	45	117	227
1919.....	177	60	152	379
1914.....	80	43	125	248
1909.....	84	63	168	315
Arizona—				
1927*....	1	29	55	85
1925*....	...	28	54	82
1923*....	...	30	48	78
1921*....	2	35	78	115
1919.....	3	38	72	113
1914.....	3	26	38	67
1909.....	4	17	54	75
Arkansas—				
1927*....	24	45	268	337
1925*....	21	63	145	229
1923*....	32	64	171	267
1921*....	83	64	194	341
1919.....	223	106	267	596
1914.....	140	72	282	494
1909.....	133	104	312	549
California—				
1927*....	25	347	881	1,253
1925*....	40	542	1,200	1,782
1923*....	39	611	1,486	2,136
1921*....	54	548	1,229	1,831
1919.....	66	735	1,779	2,579
1914.....	83	382	1,067	1,532
1909.....	82	362	948	1,392
Colorado—				
1927*....	22	124	437	583
1925*....	14	129	411	554
1923*....	13	181	417	611
1921*....	27	180	424	631
1919.....	39	207	490	736
1914.....	34	133	393	560
1909.....	47	100	282	429
Connecticut—				
1927*....	7	7	21	35
1925*....	17	16	38	71
1923*....	26	13	53	92
1921*....	40	34	64	138
1919.....	66	24	80	170
1914.....	86	23	113	228
1909.....	122	21	145	288
Delaware—				
1927*....	26	14	72	112
1925*....	21	8	44	73
1923*....	25	5	54	84
1921*....	42	4	80	126
1919.....	71	10	95	176
1914.....	74	16	127	216
1909.....	86	19	139	244
Florida—				
1927*....	2	6	14	22
1925*....	5	5	11	21
1923*....	7	1	14	[illegible]
1921*....	16	2	13	30
1919.....	27	12	52	91
1914.....	14	7	22	43
1909.....	5	5	11	21
Georgia—				
1927*....	29	87	239	355
1925*....	30	96	265	391
1923*....	36	95	265	396
1921*....	121	80	304	505
1919.....	191	117	371	679
1914.....	161	99	367	617
1909.....	137	107	386	630
Idaho—				
1927*....	19	59	207	255
1925*....	18	56	161	235
1923*....	22	79	166	267
1921*....	22	82	194	298
1919.....	52	112	304	468
1914.....	60	76	188	314
1909.....	58	69	125	242
Illinois—				
1927*....	101	376	1,405	1,882
1925*....	111	552	1,745	2,408
1923*....	173	823	2,324	3,320
1921*....	232	625	1,820	2,677
1919.....	331	936	2,740	4,007
1914.....	458	713	2,398	3,569
1909.....	544	626	2,464	3,634
Indiana—				
1927*....	189	461	1,304	1,957
1925*....	207	481	1,339	2,027
1923*....	277	456	1,614	2,347
1921*....	322	492	1,786	[illegible]
1919.....	469	702	2,250	3,471
1914.....	634	545	2,281	3,460
1909.....	703	507	2,298	3,508

Census Report—Employees in Milling, 1909 to 1927—Continued

	Proprietors, etc.	Salaried employees	Wage earners, average	Total
Iowa—				
1927*....	69	95	315	479
1925*....	91	116	350	556
1923*....	96	163	420	679
1921*....	99	170	450	719
1919.....	219	200	509	928
1914.....	268	236	790	1,294
1909.....	354	185	647	1,186
Kansas—				
1927*....	103	1,113	2,723	3,939
1925*....	84	1,032	2,494	3,612
1923*....	141	1,216	2,836	4,193
1921*....	126	1,302	3,046	4,474
1919.....	341	1,454	3,493	5,288
1914.....	439	919	2,357	3,715
1909.....	568	850	2,360	3,778
Kentucky—				
1927*....	205	379	987	1,571
1925*....	216	419	1,023	1,658
1923*....	263	396	1,150	1,809
1921*....	365	433	1,114	1,911
1919.....	741	505	1,584	2,830
1914.....	609	412	1,447	2,468
1909.....	647	378	1,401	2,426
Maine—				
1927*....	25	24	76	125
1925*....	32	22	134	188
1923*....	62	28	150	240
1921*....	79	34	135	248
1919.....	114	41	144	299
1914.....	177	48	217	442
1909.....	220	69	225	514
Maryland—				
1927*....	90	89	326	505
1925*....	94	87	307	488
1923*....	124	90	315	559
1921*....	155	111	378	644
1919.....	286	167	478	931
1914.....	269	111	473	853
1909.....	336	93	506	935
Massachusetts—				
1927*....	18	39	135	192
1925*....	24	24	119	167
1923*....	46	26	89	161
1921*....	56	39	134	229
1919.....	79	36	123	238
1914.....	124	53	176	353
1909.....	151	57	229	437
Michigan—				
1927*....	132	254	728	1,114
1925*....	172	263	859	1,294
1923*....	202	315	972	1,489
1921*....	224	294	862	1,380
1919.....	400	419	1,128	1,947
1914.....	515	468	1,370	2,353
1909.....	660	433	1,530	2,623
Minnesota—				
1927*....	52	1,027	3,617	4,696
1925*....	71	974	3,943	4,988
1923*....	94	1,660	4,469	6,223
1921*....	100	1,796	4,668	6,564
1919.....	180	4,457	6,049	10,686
1914.....	266	2,569	4,564	7,399
1909.....	466	2,079	4,345	6,890
Mississippi—				
1927*....	1..	..	..	..
1925*....	6	21	65	92
1923*....	6	17	50	73
Missouri—				
1927*....	181	688	2,205	3,074
1925*....	197	714	2,109	3,020
1923*....	293	830	2,178	3,301
1921*....	337	721	2,027	3,085
1919.....	754	924	3,015	4,693
1914.....	766	515	2,096	3,466
1909.....	810	594	2,198	3,602
Montana—				
1927*....	20	149	287	456
1925*....	5	174	318	497
1923*....	23	152	369	544
1921*....	10	167	321	498
1919.....	33	171	360	566
1914.....	14	160	256	430
1909.....	2	46	105	152
Nebraska—				
1927*....	107	376	661	1,143
1925*....	89	282	613	984
1923*....	127	361	671	1,159
1921*....	123	299	595	1,017
1919.....	259	573	1,063	1,895
1914.....	249	287	682	1,218
1909.....	293	323	839	1,455
Nevada†—				
1927*....	2	3	7	12
1925*....	2	2	10	14
1923*....	3	3	12	18
New Hampshire—				
1927*....	13	20	68	101
1925*....	33	18	91	141
1923*....	40	18	103	164
1921*....	39	18	108	165
1919.....	60	17	83	160
1914.....	112	16	144	272
1909.....	149	23	116	288
New Jersey—				
1927*....	45	40	129	214
1925*....	54	35	144	233
1923*....	65	68	157	290
1921*....	84	61	220	365
1919.....	171	68	232	471
1914.....	221	61	341	623
1909.....	255	82	453	790
New Mexico†—				
1927*....	5	7	17	29
1925*....	3	8	19	30
1923*....	4	12	26	42
1909.....	161	33	156	350
New York—				
1927*....	243	689	2,513	3,445
1925*....	256	745	2,955	3,956
1923*....	373	771	2,542	3,686
1921*....	467	822	2,687	3,976
1919.....	824	1,045	3,012	4,881
1914.....	1,058	937	3,070	5,065
1909.....	1,191	939	2,990	5,120
North Carolina—				
1927*....	163	201	566	930
1925*....	93	197	484	774
1923*....	151	194	470	815
1921*....	172	194	541	907
1919.....	451	175	629	1,255
1914.....	391	142	588	1,121
1909.....	384	91	496	971
North Dakota—				
1927*....	17	100	231	348
1925*....	17	139	331	487
1923*....	20	183	453	656
1921*....	28	86	461	565
1919.....	52	127	569	748
1914.....	33	242	424	699
1909.....	79	196	435	710
Ohio—				
1927*....	205	415	[illegible]	2,024
1925*....	280	531	1,555	2,366
1923*....	378	552	1,740	2,670
1921*....	447	441	1,434	2,322
1919.....	717	724	2,122	3,563
1914.....	858	655	2,363	3,876
1909.....	911	668	2,585	4,164
Oklahoma—				
1927*....	34	341	546	921
1925*....	46	272	537	855
1923*....	52	378	562	992
1921*....	121	357	630	1,108
1919.....	224	448	958	1,630
1914.....	269	296	700	1,265
1909.....	533	304	842	1,679
Oregon—				
1927*....	34	194	603	831
1925*....	35	255	883	1,173
1923*....	41	337	871	1,249
1921*....	56	282	884	1,222
1919.....	99	311	822	1,232
1914.....	80	166	450	696
1909.....	101	125	394	620
Pennsylvania—				
1927*....	560	290	1,219	2,069
1925*....	612	271	1,284	2,167
1923*....	708	381	1,562	2,651
1921*....	918	413	1,804	3,135
1919.....	1,402	513	2,198	4,113
1914.....	1,613	487	2,595	4,695
1909.....	1,896	368	2,432	4,696
Rhode Island†—				
1927*....	5	16	18	39
1925*....	4	17	45	66
1923*....	10	19	53	82
S. Carolina—				
1927*....	7	37	101	145
1925*....	4	22	60	86
1923*....	12	59	90	161
1921*....	16	22	78	120
1919.....	26	24	70	120
1914.....	51	9	30	90
1909.....	9	12	23	44
South Dakota—				
1927*....	16	41	88	145
1925*....	8	48	76	132
1923*....	12	48	102	162
1921*....	17	68	118	203
1919.....	39	86	221	346
1914.....	43	75	255	373
1909.....	83	86	285	454
Tennessee—				
1927*....	174	339	1,096	1,609
1925*....	201	368	1,258	1,827
1923*....	271	372	1,331	1,974
1921*....	340	365	1,139	1,844
1919.....	889	459	1,472	2,820
1914.....	693	373	1,497	2,563
1909.....	463	415	1,577	2,455
Texas—				
1927*....	61	535	1,337	1,933
1925*....	67	559	1,212	1,838
1923*....	96	497	1,176	1,769
1921*....	128	564	1,313	2,005
1919.....	229	607	1,567	2,403
1914.....	173	519	1,300	1,992
1909.....	225	455	1,216	1,895
Utah—				
1927*....	46	116	277	439
1925*....	19	73	265	357
1923*....	39	95	196	330
1921*....	39	104	216	359
1919.....	86	91	249	426
1914.....	26	57	198	281
1909.....	41	57	184	282
Vermont—				
1927*....	32	27	126	185
1925*....	41	61	192	294
1923*....	23	49	162	234
1921*....	80	43	150	273
1919.....	132	40	169	341
1914.....	164	18	179	361
1909.....	161	33	156	350
Virginia—				
1927*....	217	193	629	1,039
1925*....	238	236	656	1,130
1923*....	351	277	816	1,444
1921*....	401	275	809	1,485
1919.....	695	305	937	1,937
1914.....	682	231	1,082	1,995
1909.....	571	232	1,014	1,817
Washington—				
1927*....	36	441	1,091	1,568
1925*....	37	437	1,031	1,505
1923*....	38	491	1,128	1,657
1921*....	62	548	1,214	1,824
1919.....	67	550	1,536	2,153
1914.....	65	362	928	1,355
1909.....	61	268	644	973
West Virginia—				
1927*....	67	111	319	497
1925*....	54	94	262	410
1923*....	97	85	300	482
1921*....	125	104	286	515
1919.....	251	132	371	754
1914.....	282	118	381	781
1909.....	288	144	452	884
Wisconsin—				
1927*....	95	132	527	754
1925*....	98	195	657	950
1923*....	134	242	869	1,245
1921*....	141	319	984	1,444
1919.....	239	504	1,349	2,091
1914.....	294	394	1,116	1,804
1909.....	386	361	1,184	1,931
Wyoming†—				
1927*....	4	12	35	51
1925*....	4	16	38	58
1923*....	9	23	41	73
All other states—				
1927*....	4	48	91	143
1925*....	1	35	36	72
1923*....	3	22	36	61
1921*....	46	97	255	398
1919.....	145	127	289	559
1914.....	79	73	249	405
1909.....	71	73	255	399
United States—				
1927*....	3,603	10,146	29,982	43,730
1925*....	3,792	11,458	31,988	47,238
1923*....	5,145	12,835	35,194	53,174
1921*....	6,426	12,759	35,378	54,563
1919.....	11,937	18,351	45,452	75,740
1914.....	12,669	13,248	39,718	65,635
1909.....	14,570	12,031	39,453	66,054

"Gold Mine"

FLOUR

H. H. King Flour Mills Co.

Successors to Sheffield-King Milling Co.

MINNEAPOLIS, MINNESOTA

Salaries, Wages and Cost of Materials, by Years

Salaries, wages and cost of materials in merchant flour mills as reported by the census:

State—	Salaries	Wages	Cost of materials
Alabama—			
1914....	*108,318	*.....	$1,919,151
1921....	107,753	115,675	1,665,173
1923....	116,524	126,207	3,951,370
1925....	113,232	124,000	4,611,701
1927....	33,041	30,209	795,624
Arizona—			
1914....	*78,506	......	849,991
1921....	66,025	107,433	[illegible]
1923....	66,453	61,050	[illegible]
1925....	60,454	69,179	1,359,445
1927....	85,772	71,243	1,320,081
Arkansas—			
1914....	*189,424	......	5,171,994
1921....	102,511	146,735	3,861,909
1923....	115,755	143,456	[illegible]
1925....	118,312	126,373	4,755,052
1927....	103,283	203,309	4,533,244
California—			
1914....	*1,307,539	......	19,588,744
1921....	1,068,540	1,603,303	22,981,669
1923....	1,279,159	2,058,694	33,631,419
1925....	1,026,263	1,636,546	32,027,036
1927....	674,811	1,292,777	26,286,613
Colorado—			
1914....	*515,066	......	6,436,778
1921....	343,218	611,773	14,536,001
1923....	405,460	583,877	9,173,924
1925....	383,128	642,657	13,560,635
1927....	290,950	633,736	11,083,468
Connecticut—			
1914....	*79,603	......	1,630,816
1921....	27,072	46,693	1,004,377
1923....	26,147	63,289	974,010
1925....	27,719	42,828	603,067
1927....	17,900	27,952	280,965
Delaware—			
1914....	*74,273	......	1,202,400
1921....	4,064	64,962	749,856
1923....	5,137	54,523	511,889
1925....	7,324	44,730	666,547
1927....	15,297	67,603	501,134
Florida—			
1914....	*14,806	......	134,031
1921....	1,770	8,704	134,567
1923....	2,100	12,799	161,113
1925....	4,800	12,097	138,647
1927....	12,240	10,978	165,334
Georgia—			
1914....	*267,401	......	6,254,180
1921....	190,249	224,661	4,624,829
1923....	240,377	197,282	7,513,375
1925....	302,803	221,261	7,529,353
1927....	237,525	263,439	6,055,039
Idaho—			
1914....	*250,173	......	2,727,032
1921....	183,542	274,708	5,463,137
1923....	159,812	214,687	4,602,019
1925....	119,440	258,184	5,540,774
1927....	124,718	277,847	4,930,293
Illinois—			
1914....	*2,438,267	......	42,840,907
1921....	1,418,228	2,259,939	46,343,944
1923....	1,651,469	2,726,280	41,377,417
1925....	1,261,340	2,381,142	65,635,390
1927....	932,916	[illegible]	[illegible]
Indiana—			
1914....	*1,351,904	......	32,240,664
1921....	910,128	1,919,207	34,615,139
1923....	964,914	1,729,939	21,784,400
1925....	1,073,052	1,488,131	[illegible]
1927....	972,512	1,546,022	[illegible]
Iowa—			
1914....	*843,457	......	11,757,734
1921....	310,736	602,426	10,595,090
1923....	312,538	537,634	10,654,994
1925....	222,340	467,758	13,024,773
1927....	178,369	424,306	11,030,287
Kansas—			
1914....	*[illegible]	......	64,142,172
1921....	3,040,474	4,085,124	124,302,396
1923....	2,413,700	3,609,413	87,869,869
1925....	2,323,265	3,326,414	118,245,707
1927....	2,337,310	3,497,361	113,126,260
Kentucky—			
1914....	*1,039,013	......	17,419,454
1921....	594,792	935,193	18,306,254
1923....	692,520	1,123,792	19,769,415
1925....	644,359	1,043,919	25,109,574
1927....	753,259	1,079,757	19,782,738
Maine—			
1914....	*162,044	......	7,959,180
1921....	49,299	143,397	2,295,945
1923....	46,791	130,033	2,550,280
1925....	30,854	149,022	2,599,491
1927....	23,941	71,247	1,933,117
Maryland—			
1914....	*349,340	......	6,919,566
1921....	232,913	173,627	7,293,174
1923....	165,670	361,311	7,357,262
1925....	171,443	313,809	7,938,721
1927....	142,095	350,374	8,265,730
Massachusetts—			
1914....	*147,363	......	3,423,887
1921....	64,033	157,468	2,829,193
1923....	80,599	97,546	3,049,714
1925....	49,448	149,738	3,276,969
1927....	60,284	175,040	3,710,013
Michigan—			
1914....	*1,341,949	......	23,239,171
1921....	431,428	[illegible]	19,833,132
1923....	651,707	1,137,178	17,875,029
1925....	535,350	[illegible]	23,503,002
1927....	562,553	1,094,250	[illegible]
Minnesota—			
1914....	*6,023,710	......	127,314,571
1921....	3,815,267	[illegible]	269,359,191
1923....	3,947,657	[illegible]	154,623,591
1925....	2,294,917	5,387,522	181,954,721
1927....	[illegible]	6,351,743	156,723,574
Mississippi—			
1914....	*27,440	......	244,273
1921....	32,981	[illegible]	1,099,341
1923....	[illegible]	[illegible]	[illegible]
1925....	45,386	[illegible]	2,525,437
1927†...	......	......	......
Missouri—			
1914....	*[illegible]	......	33,262,389
1921....	1,571,116	2,280,519	59,617,566
1923....	1,615,205	2,445,441	61,492,967
1925....	1,620,312	2,317,950	72,522,449
1927....	1,534,348	2,623,774	74,045,243

Salaries, Wages and Cost of Materials, by Years (Continued)

State—	Salaries	Wages	Cost of materials
Montana—			
1914....	*420,838	......	3,901,932
1921....	391,898	[illegible]	9,116,706
1923....	314,157	[illegible]	[illegible]
1925....	393,946	[illegible]	[illegible]
1927....	298,169	460,070	12,163,033
Nebraska—			
1914....	[illegible]	......	[illegible]
1921....	[illegible]	[illegible]	[illegible]
1923....	669,511	[illegible]	[illegible]
1925....	538,861	[illegible]	[illegible]
1927....	659,846	[illegible]	[illegible]
New Hampshire—			
1914....	*98,796	......	[illegible]
1921....	37,114	156,046	[illegible]
1923....	45,372	114,696	[illegible]
1925....	49,211	94,866	[illegible]
1927....	24,653	66,253	842,227
Nevada—			
1927....	5,400	10,215	149,237
New Jersey—			
1914....	[illegible]	......	3,590,011
1921....	[illegible]	[illegible]	2,727,994
1923....	[illegible]	[illegible]	2,399,280
1925....	[illegible]	[illegible]	2,639,120
1927....	84,641	[illegible]	2,264,847
New Mexico—			
1914....	[illegible]	......	337,086
1921....	[illegible]	57,336	525,906
1923....	13,941	29,393	261,382
1925....	17,725	20,394	419,764
1927....	14,135	18,473	330,308
New York—			
1914....	*3,100,253	......	67,422,761
1921....	1,828,675	3,436,439	90,742,887
1923....	[illegible]	3,440,176	76,737,796
1925....	[illegible]	4,256,051	132,381,211
1927....	1,637,666	3,424,980	99,324,685
North Carolina—			
1914....	*349,516	......	[illegible]
1921....	334,145	476,431	[illegible]
1923....	369,198	398,540	[illegible]
1925....	405,315	442,624	[illegible]
1927....	424,488	518,584	14,769,080
North Dakota—			
1914....	*667,759	......	10,072,244
1921....	192,148	669,015	14,662,889
1923....	336,678	634,197	16,260,085
1925....	289,344	469,007	13,443,609
1927....	204,724	350,074	8,750,091
Ohio—			
1914....	*2,244,311	......	38,957,386
1921....	[illegible]	1,886,391	33,483,665
1923....	[illegible]	2,191,585	36,567,389
1925....	1,556,471	2,033,708	44,889,628
1927....	923,610	1,771,749	35,135,443
Oklahoma—			
1914....	[illegible]	......	14,366,966
1921....	[illegible]	[illegible]	19,652,745
1923....	[illegible]	[illegible]	16,949,281
1925....	[illegible]	[illegible]	[illegible]
1927....	689,953	[illegible]	[illegible]
Oregon—			
1914....	*550,423	......	[illegible]
1921....	563,637	1,059,462	[illegible]
1923....	674,553	1,065,645	20,461,062
1925....	531,663	[illegible]	24,643,028
1927....	431,309	[illegible]	18,624,472
Pennsylvania—			
1914....	*1,896,281	......	37,096,882
1921....	690,682	[illegible]	[illegible]
1923....	713,734	[illegible]	[illegible]
1925....	[illegible]	[illegible]	[illegible]
1927....	[illegible]	[illegible]	[illegible]
Rhode Island—			
1914....	*41,376	......	690,074
1921....	[illegible]	30,169	768,810
1923....	[illegible]	43,822	963,766
1925....	17,683	33,322	785,404
1927....	19,326	21,139	508,486
South Carolina—			
1914....	[illegible]	......	346,186
1921....	[illegible]	57,086	1,284,567
1923....	[illegible]	78,489	1,704,863
1925....	[illegible]	41,267	1,410,724
1927....	[illegible]	70,734	2,073,308
South Dakota—			
1914....	*273,446	......	4,721,691
1921....	[illegible]	183,686	2,800,971
1923....	[illegible]	121,787	2,053,204
1925....	[illegible]	91,842	2,834,624
1927....	[illegible]	116,305	1,955,456
Tennessee—			
1914....	[illegible]	......	[illegible]
1921....	722,628	945,193	[illegible]
1923....	653,732	1,017,900	[illegible]
1925....	737,188	1,079,846	[illegible]
1927....	729,036	1,094,688	24,242,232
Texas—			
1914....	[illegible]	......	29,573,187
1921....	[illegible]	1,460,799	36,067,316
1923....	[illegible]	1,268,610	32,099,371
1925....	[illegible]	1,446,681	46,966,943
1927....	1,380,360	1,510,330	40,461,107
Utah—			
1914....	[illegible]	......	2,637,317
1921....	[illegible]	294,223	4,736,929
1923....	140,692	235,694	4,106,143
1925....	129,956	311,671	7,666,331
1927....	194,501	343,612	8,610,949
Vermont—			
1914....	[illegible]	......	3,659,050
1921....	[illegible]	180,030	2,668,163
1923....	[illegible]	165,991	3,136,639
1925....	[illegible]	229,300	6,844,628
1927....	31,302	141,507	2,617,269
Virginia—			
1914....	*685,652	......	15,380,610
1921....	466,944	742,613	16,780,979
1923....	436,454	732,542	14,549,621
1925....	421,630	606,352	16,793,580
1927....	374,804	632,867	14,482,218
Washington—			
1914....	*1,294,659	......	20,272,495
1921....	1,062,908	[illegible]	36,507,661
1923....	1,073,424	[illegible]	33,998,770
1925....	918,371	[illegible]	33,851,254
1927....	934,141	[illegible]	39,490,123
West Virginia—			
1914....	*313,258	......	5,928,428
1921....	191,375	324,817	4,666,616
1923....	188,677	295,137	5,092,936
1925....	206,687	279,283	5,289,946
1927....	233,461	363,719	5,450,360
Wisconsin—			
1914....	*1,261,965	......	24,979,901
1921....	616,638	1,196,665	23,337,956
1923....	507,864	1,036,135	20,589,656
1925....	373,609	803,021	19,992,409
1927....	263,783	637,623	13,247,701
Wyoming—			
1914....	*46,365	......	554,721
1921....	39,568	78,876	1,730,121
1923....	45,070	53,728	810,166
1925....	39,006	60,704	1,017,793
1927....	22,630	67,042	548,698
All other states—			
1914....	*64,089	......	972,905
1921....	80,428	105,561	1,262,048
1923....	30,349	40,670	764,416
1925....	49,736	78,437	[illegible]
1927....	105,028	92,794	[illegible]
United States—			
1914....	$16,370,141	$24,593,162	$752,270,021
1921....	26,674,978	43,142,734	993,809,720
1923....	26,330,769	41,704,297	885,971,643
1925....	22,992,711	39,700,239	1,125,738,941
1927....	22,231,064	37,559,472	900,879,104

*Data for wages and salaries not separated in 1914. †Included in all other states.

MERCHANT MILLS—SIZE OF ESTABLISHMENTS—1919 CENSUS

Number of merchant flour mills in the United States, grouped according to the number of wage earners employed, as reported in the 1919 census:

State—	None	1 to 5	6 to 20	21 to 50	51 to 100	101 to 250	251 to 500	501 to 1,000	Over 1,000
United States—1919	3,181	6,220	922	261	82	42	[illegible]	[illegible]	[illegible]
1914	1,587	7,667	953	195	65	16	3	[illegible]	..
California	13	88	19	[illegible]	2	3	[illegible]	..	..
Colorado	[illegible]	75	19	3	[illegible]	..	..	..	..
Illinois	101	123	64	22	7	5	..	..	..
Indiana	67	329	43	13	6	3	..	..	..
Iowa	40	133	[illegible]	3	[illegible]	..	..	..	..
Kansas	82	174	81	36	8	4	..	..	..
Kentucky	180	312	31	6	[illegible]	1	1	..	..
Maryland	88	142	15	1	[illegible]	..	..	..	..
Michigan	85	226	[illegible]	3	[illegible]	..	..	..	..
Minnesota	23	151	31	23	12	4	[illegible]	..	2
Missouri	236	361	63	20	[illegible]	4	[illegible]	..	..
Montana	6	48	11	3	1	..	..	..	..
Nebraska	42	142	25	[illegible]	[illegible]	2	..	..	..
New York	201	443	52	14	4	..	[illegible]	1	..
North Carolina	129	227	14	4	..	..	..	..	..
North Dakota	14	51	15	5	2	..	..	..	..
Ohio	113	385	61	13	4	1	..	..	..
Oklahoma	92	99	26	[illegible]	4	..	..	..	..
Oregon	28	63	17	5	1	2	..	..	..
Pennsylvania	320	749	62	4	2	1	..	..	..
Tennessee	332	251	28	[illegible]	1	[illegible]	..	..	..
Texas	59	111	31	14	[illegible]	[illegible]	..	..	..
Virginia	224	284	24	4	..	1	..	..	..
Washington	10	72	22	8	[illegible]	4	..	..	..
Wisconsin	38	149	23	[illegible]	[illegible]	[illegible]	..	..	..

PREPARED FLOUR, CEREAL PREPARATIONS AND FEEDS—1927

	Totals	Made by— Flour mills	*Cereal and feed mills	Others
Prepared flour—Pounds	880,678,164	759,317,874	119,100,586	2,259,704
Value	$38,186,446	$32,018,328	$6,054,456	$113,662
Cereal breakfast preparations:				
Made from corn—Pounds	293,465,180	127,088,060	166,377,010	......
Value	$22,176,610	$2,627,920	$19,548,690	......
Made from wheat—Value	$41,511,229	$3,185,794	$38,325,435	......
Made from oats—Pounds	843,520,520	26,241,104	817,279,416	......
Value	$39,960,039	$1,239,312	$38,720,727	......
Made from other grains—Value	$9,977,779	$370,453	$8,249,065	$1,358,261
Other cereal preparations (except coffee substitutes)—Value	$1,875,423	$317,360	$1,032,736	$525,327
Prepared feeds for animals and fowls:				
Made chiefly of grain—Tons	7,153,753	1,316,288	5,835,465	......
Value	$318,912,718	$56,501,299	$262,211,419	......
Made chiefly of ingredients other than grain—Value	$72,547,672	$4,773,027	$37,056,626	$30,718,019

*Embraces establishments engaged primarily in the manufacture of preparations such as oatmeal, hominy, cereal breakfast foods, etc.

MERCHANT MILLING COSTS—1919 CENSUS

State—	Salaries and wages: Officials	Clerks	Wage earners	Rent and taxes: Rent of factory	Taxes	For materials: Principal materials	Fuel and power
Alabama	$58,761	$37,995	$132,981	$6,776	$11,402	$3,793,875	$64,665
Arizona	62,020	22,913	98,435	......	20,408	1,937,200	23,719
Arkansas	109,633	78,944	243,463	10,748	90,368	6,950,666	122,226
California	356,585	802,386	2,229,241	27,912	432,702	56,476,660	406,055
Colorado	287,339	160,349	569,327	4,948	405,112	17,429,570	167,958
Connecticut	19,068	8,596	84,520	6,302	57,288	2,067,213	15,872
Delaware	5,800	9,562	96,341	6,504	6,707	1,643,870	21,532
D. of Col.	16,810	5,200	26,082	900	5,167	802,799	3,239
Florida	10,324	4,980	33,087	888	3,503	461,421	9,069
Georgia	184,931	93,656	313,674	10,432	142,760	10,439,199	109,616
Idaho	132,212	73,869	360,663	11,717	191,086	11,716,334	111,654
Illinois	1,337,318	742,806	2,925,744	29,238	1,556,683	102,417,294	749,158
Indiana	750,807	514,661	2,272,538	16,150	660,578	64,984,283	755,752
Iowa	199,666	141,705	578,181	7,655	144,808	18,372,312	240,759
Kansas	1,872,000	1,227,501	4,146,056	23,507	2,606,490	180,751,636	1,581,542
Kentucky	448,485	487,429	1,422,801	21,596	241,906	39,114,643	466,311
Louisiana	13,436	11,240	43,134	2,094	3,128	1,179,353	8,651
Maine	51,470	10,596	147,074	10,684	26,199	4,677,570	31,622
Maryland	151,610	102,093	449,132	22,100	93,553	16,168,388	189,013
Mass.	32,981	15,652	129,996	18,269	25,303	4,214,481	35,055
Michigan	399,982	266,556	1,256,772	43,809	251,841	37,776,250	408,616
Minnesota	2,021,225	3,870,348	7,780,555	669,266	3,366,611	335,652,145	2,190,367
Mississippi	14,045	7,068	48,678	3,391	14,847	1,879,641	17,147
Missouri	1,149,863	647,838	3,153,880	33,306	692,342	97,131,800	1,052,924
Montana	160,609	141,556	474,533	16,332	183,840	13,936,736	155,521
Nebraska	612,372	470,524	1,240,076	14,515	306,462	47,078,841	480,459
Nevada	22,894	6,925	27,347	640	6,271	981,807	9,509
New Hamp.	29,400	19,206	95,539	1,312	53,956	2,914,745	11,559
New Jersey	52,609	32,608	219,895	18,024	26,663	4,992,500	43,188
New Mexico	16,156	7,177	64,551	720	8,362	1,060,505	31,893
New York	1,214,734	844,814	3,390,791	188,015	920,031	134,849,794	783,934
N. Carolina	175,657	97,693	563,406	9,113	174,320	20,765,483	250,146
N. Dakota	162,756	62,819	679,496	1,245	173,707	25,901,190	221,535
Ohio	926,752	453,835	2,439,116	22,811	781,657	76,334,609	767,472
Oklahoma	423,717	374,804	1,021,017	5,695	726,115	43,812,330	367,765
Oregon	387,018	214,125	1,165,868	19,788	274,692	37,559,277	242,471
Pennsylv'a	460,996	429,996	2,259,132	103,521	226,614	59,440,465	544,302
R. Island	9,850	8,389	33,796	875	7,133	963,405	14,414
S. Carolina	33,298	12,413	44,147	1,164	5,456	1,778,356	26,701
S. Dakota	110,002	43,055	282,601	3,121	67,716	7,751,928	139,178
Tennessee	442,706	324,988	1,281,055	12,246	333,300	44,753,314	423,033
Texas	697,532	557,356	1,680,663	22,474	668,418	62,884,014	515,057
Utah	84,930	35,530	268,769	24,080	66,942	6,483,856	68,371
Vermont	29,672	17,122	158,210	6,186	32,886	5,310,823	21,473
Virginia	305,369	176,381	826,687	33,231	230,607	30,691,260	236,582
Washington	517,564	552,154	2,144,047	30,808	621,684	72,763,382	401,569
W. Virginia	156,170	98,680	377,890	7,103	114,739	10,417,968	112,461
Wisconsin	476,662	485,741	1,660,828	134,723	540,065	61,249,929	486,955
Wyoming	20,796	8,487	48,648	150	11,068	1,165,363	17,657
U. States	$17,203,661	$14,809,369	$50,888,383	$1,663,972	$17,599,396	$1,783,901,111	$16,279,876

MACARONI, SPAGHETTI, ETC.

The establishments in this industry are engaged primarily in the manufacture of macaroni, spaghetti, vermicelli, noodles and other alimentary pastes. At censuses prior to that for 1927, the manufacture of alimentary pastes was treated as a part of the "Food preparations, not elsewhere classified" industry. At the census for 1927, however, it was given a separate classification and treated as an individual industry. A special schedule, calling for detailed data on the several products, was used for the first time at the census for 1927, and consequently no comparative detailed product statistics for prior years are available.

SUMMARY—1919-27

Year or period—	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel and power	Value of products	Value added by manufacture*	Horsepower
1927	353	4,587	$5,070,936	$27,433,792	$45,353,200	$17,919,408	21,466
1925	327	4,560	5,025,625	27,491,142	43,489,344	15,998,202	[illegible]
1923	343	4,098	4,332,312	16,646,400	29,556,501	12,910,101	[illegible]
1921	409	3,865	3,718,613	19,964,054	31,012,787	11,048,733	[illegible]
1919*	557	4,543	4,168,009	25,109,951	37,057,198	11,947,247	16,769
Per cent of increase or decrease (—)—							
1925-27	8.0	0.6	0.9	[illegible]	[illegible]	12.0	[illegible]
1923-25	—4.7	11.3	16.0	65.1	[illegible]	23.9	[illegible]
1923-27	2.9	11.9	17.0	64.8	[illegible]	38.8	[illegible]
1919-27	—36.6	1.0	21.7	9.3	22.4	50.0	[illegible]

*Includes establishments reporting products under $5,000 in value.

PRODUCTS, BY KIND, QUANTITY AND VALUE—1927

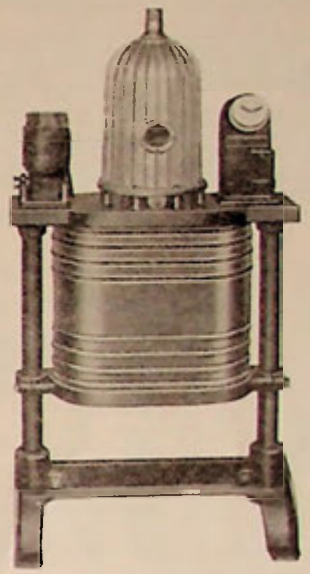
Kind—	Quantity, lbs	Value
1. Macaroni, spaghetti, vermicelli and noodles industry, all products, total value		$45,353,200
2. Macaroni, spaghetti, vermicelli and noodles, value		44,279,544
3. Other products (not normally belonging to the industry), value		1,073,656
4. Macaroni, spaghetti, vermicelli and noodles made as secondary products in other industries, value		1,979,017
Macaroni, spaghetti, vermicelli and noodles, all industries:		
Total value (sum of 2 and 4)		$46,258,561
Macaroni, spaghetti, vermicelli, and plain or water noodles	450,978,922	[illegible]
Noodles, egg	31,805,188	5,457,503
Raviola		249,275
Other pastes		[illegible]
Undistributed pastes		3,755,872

STATISTICS BY STATES—1927

	Number of: Establishments	Persons in industry	Wage earners	000's omitted: Salaries	Wages	Cost of materials	Value of products	Added value
California	53	515	326	$175	[illegible]	[illegible]	$3,344	$1,421
Connecticut	[illegible]	105	81	30	[illegible]	374	618	[illegible]
Florida	3	25	17	2	17	56	95	[illegible]
Illinois	27	676	559	237	661	3,406	6,140	2,625
Louisiana	10	199	146	60	102	806	1,246	436
Maryland	6	63	46	15	54	290	437	138
Massachusetts	12	212	164	83	186	901	1,451	503
Michigan	[illegible]	109	91	35	102	471	751	[illegible]
Minnesota	[illegible]	178	137	96	132	607	1,246	616
Missouri	[illegible]	343	278	105	269	1,110	2,403	927
New York	101	1,349	1,035	562	1,308	6,904	11,146	3,943
Ohio	[illegible]	200	169	54	178	830	1,631	[illegible]
Pennsylvania	21	685	600	117	587	3,363	4,969	1,512
Rhode Island	[illegible]	76	58	17	67	316	[illegible]	111
Texas	[illegible]	111	80	36	59	303	472	155
Washington	[illegible]	74	41	46	52	273	460	175
Wisconsin	[illegible]	124	99	67	81	513	828	264
Other states*	[illegible]	840	667	328	721	3,707	7,640	3,323
United States	353	5,884	4,587	$2,096	$5,071	$26,469	$45,353	$17,919

*Alabama, 2 establishments; Colorado, 5; District of Columbia, 1; Indiana, 1; Kansas, 2; Nebraska, 1; Nevada, 1; New Jersey, [illegible]; Oklahoma, 1; Oregon, 3; Utah, 2; West Virginia, 1.

Safe . . . .
Low initial cost . . . .
Simple to operate . . . .
Practically no upkeep expense . . . .
Produces uniform, dependable and efficient results . . . .



The Continuous Arc Electrifier, the most satisfactory means for ageing and bleaching flour. Made in two sizes: the No. 1, for mills of less than 200 barrels capacity, and the No. 2, for mills of more than 200 barrels capacity.

JOHN E. MITCHELL COMPANY
ST. LOUIS *and* DALLAS

MILLS CLASSIFIED BY VALUE OF PRODUCTS, 1911 TO 1923

	Establishments		Wage earners		Value of products	
	Number	Per cent	Average number	Per cent	Amount	Per cent
All classes—1923§	5,232	100.0	35,191	100.0	$1,015,577,159	100.0
1921	8,019	100.0	35,845	100.0	1,183,825,958	100.0
1919	10,708	100.0	45,481	100.0	2,052,434,385	100.0
1914	10,788	100.0	39,718	100.0	877,679,709	100.0
Less than $5,000—1923§	...	...	...	...	...	...
1921	1,534	19.1	467	1.3	1,085,827	0.3
1919	1,499	14.0	156	0.4	4,921,716	0.2
1914	1,876	17.4	961	2.4	5,347,012	0.6
$5,000 to $20,000—1923	2,044	39.1	2,048	5.8	23,826,129	2.3
1921	2,840	35.4	2,511	7.0	32,399,199	2.7
1919	3,080	28.8	1,659	3.6	26,392,972	1.3
1914	1,175	36.7	4,598	11.6	47,675,997	5.4
$20,000 to $100,000—1923	2,120	40.5	5,811	16.5	91,410,790	8.9
1921	2,464	30.7	7,212	20.2	105,059,118	8.9
1919	4,151	38.8	7,380	16.2	189,251,525	9.2
1914	3,529	32.7	9,680	24.4	117,251,021	13.4
$100,000 to $500,000—1923	679	13.0	6,175	17.6	151,912,561	14.9
1921	751	9.4	8,116	17.9	164,475,760	13.9
1919	1,331	12.4	8,062	17.7	275,559,175	13.4
1914	899	8.3	*12,161	*31.1	193,837,516	22.1
$500,000 to $1,000,000—1923	157	3.0	3,417	9.7	111,315,185	10.9
1921	199	2.5	4,116	11.5	142,295,659	12.0
1919	249	2.3	4,012	8.9	172,691,000	8.4
1914	156	1.4	†	...	107,237,655	12.2
$1,000,000 and over—1923	232	4.4	17,743	50.1	661,112,196	63.3
1921	228	2.8	15,090	42.1	735,370,365	62.1
1919	398	3.7	24,152	53.1	1,374,531,997	67.0
1914	153	1.4	12,015	30.2	376,326,608	42.9

*Includes the $500,000 to $1,000,000 class. †Included in the $100,000 to $500,000 class. §No data for establishments with products under $5,000 in value were tabulated for 1923.

CEREAL PREPARATIONS

Prior to the census for 1927, cereal preparations were classified under "Food preparations, not elsewhere classified." The "Cereal preparations" industry, as constituted for 1927, embraces establishments engaged primarily in the manufacture of breakfast foods, prepared flour, coffee substitutes, and similar preparations from corn, oats, wheat and other grains. The item "Other products" comprises chiefly prepared feeds for animals and fowls and miscellaneous food products. These are normally products of other industries, but data for such commodities made as secondary products in the "Cereal preparations" industry are included in order to present complete product statistics for this industry.

SUMMARY: 1919-27

Year or period	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel and power	Value of products	Value added by manufacture	Horsepower
1927	77	6,028	$8,417,246	$91,748,332	$155,563,286	$63,814,954	50,979
1925	90	6,168	7,941,797	92,577,423	150,079,009	57,501,586	52,625
1923	92	6,410	7,878,136	84,458,127	132,745,148	48,287,021	61,312
1921	83	5,749	7,178,051	74,558,581	118,000,786	43,482,205	*
1919	105	7,634	8,508,879	117,838,248	159,223,465	41,385,217	67,372
Per cent of increase or decrease (—)—							
1925-27	†	—2.2	—0	—.9	—3.7	11.0	—3.1
1923-25	†	—3.8	—.8	9.6	13.1	19.1	—14.2
1921-23	†	—6.0	—9.8	13.2	12.5	11.0	—9.0
1919-27	—26.7	—21.0	—1.1	—22.1	—2.3	53.2	7.6

Data for establishments with products under $5,000 in value included for 1919 but not for subsequent years.

*Not called for on schedule. †Per cent not computed where base is less than 100.

PRODUCTS BY KIND, QUANTITY AND VALUE: 1927

	Quantity, lbs	Value
1. Cereal preparations industry, all products, total value		$155,563,286
2. Cereal preparations, prepared flour, etc.		116,938,195
3. Other products (not normally belonging to the industry)		33,025,091
4. Cereal preparations, prepared flour, etc., made as secondary products in other industries, value		43,406,557
Cereal preparations, prepared flour, etc., all industries:		
Total value (sum of 2 and 4)		159,944,752
Breakfast foods, total value		113,023,657
Made from wheat	*	41,511,221
Made from oats	413,526,526	32,940,039
Made from corn	293,103,894	22,176,419
Made from other grains and from mixed grains	*	9,977,779
Prepared flour	169,674,444	98,186,446
Coffee substitutes	23,474,010	6,307,226
Other cereal preparations	*	1,875,433

*Quantity not shown because some establishments reported in number of packages and some in pounds. †Data incomplete.

STATISTICS, BY STATES: 1927

This table presents statistics for all states for which separate figures can be given without disclosing operations of individual establishments. Certain of the states shown in combination, however, reported larger values of products than some of the states shown separately.

	Establishments	Persons engaged in the industry				
	Number of establishments	Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	Horsepower
Georgia, South Carolina, Colorado, Montana, North Carolina and Kentucky	8	28	3	11	14	135
Iowa, Minnesota, Nebraska and Missouri	15	1,607	4	209	1,374	29,933
Louisiana	3	19	1	6	12	61
Massachusetts, Vermont and Connecticut	3	41	...	16	25	185
Michigan, Ohio, Illinois, Indiana and Wisconsin	17	3,476	9	412	2,955	21,995
New York, New Jersey and Pennsylvania	16	1,241	9	242	1,000	4,569
Oregon, California and Washington	11	292	6	37	169	1,716
Tennessee	4	119	3	39	66	215
United States	77	7,245	35	1,182	6,028	50,979

	Salaries	Wages	Cost of materials, supplies, fuel and power: Materials and supplies	Fuel and power	Value of products	Value added by manufacture
Georgia, South Carolina, Colorado, Montana, North Carolina and Kentucky	$40,397	$17,939	$434,219	$2,197	$530,295	$97,691
Iowa, Minnesota, Nebraska and Missouri	790,414	1,474,473	10,255,196	479,919	14,313,446	13,587,911
Louisiana	11,543	15,704	40,302	1,664	71,150	29,194
Massachusetts, Vermont and Connecticut	46,548	24,454	276,796	7,218	413,295	379,589
Michigan, Ohio, Illinois, Indiana and Wisconsin	751,259	4,797,656	78,904,949	1,870,256	94,848,471	77,567,565
New York, New Jersey and Pennsylvania	265,600	1,448,885	6,956,458	270,958	10,594,825	8,968,719
Oregon, California and Washington	196,599	274,992	2,883,668	76,810	3,709,917	1,264,129
Tennessee	71,475	81,802	2,949,494	5,237	3,241,958	285,225
United States	$2,615,595	$8,417,246	$89,748,332	$3,807,467	$155,563,286	$63,814,954

CENSUS OF THE BAKING INDUSTRY

This classification is applied to industrial establishments engaged primarily in baking bread, biscuit, crackers, cakes, pastry, etc. Bakeries operated in connection with restaurants, chain stores, etc., are included whenever it is possible to segregate the bakery business from the other business, or, if such segregation is impossible, where it is obvious that the income derived from the bakery business constitutes the greater part of the total income.

Although the schedules used for canvassing the bakery industry at the several biennial censuses beginning with that for 1923 have called for detailed data on materials and products, the returns have been incomplete to such a degree as to render it impracticable to give comparative figures for different census years. This condition arises because certain establishments which made satisfactory returns at one census have failed to do so at another.

As the majority of the bakeries whose products are valued at less than $20,000 do not keep complete records, it is impossible to obtain detailed data from such bakeries. Furthermore, some of those with products valued at more than $20,000 have failed to make their returns as called for by the schedule.

The detailed statistics in regard to materials and products, for 1927, have been compiled from data returned by bakeries which reported nearly 90 per cent of the total materials and products for the industry. This fact should be kept in mind in making use of these tables.

THE INDUSTRY AS A WHOLE

Year—	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel and power	Value of products	Value added by manufacture	Horsepower
1927	18,129	171,995	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1925	17,684	160,411	[illegible]	668,016,[illegible]	[illegible]	600,178,[illegible]	[illegible]
1923	18,739	[illegible]	[illegible]	[illegible]	1,122,906,314	648,385,812	193,186
1921	20,173	[illegible]	[illegible]	[illegible]	1,089,971,652	491,357,652	.....
1919	25,095	141,592	158,237,069	713,239,411	1,151,896,318	438,656,907	165,711
Per cent of increase or decrease (—):							
1925-27	[illegible]	7.2	7.6	[illegible]	[illegible]	16.9	25.1
1923-25	—5.6	—1.4	2.3	[illegible]	[illegible]	[illegible]	17.7
1923-27	[illegible]	5.8	10.1	20.7	24.2	[illegible]	[illegible]
1919-27	[illegible]	21.5	49.3	—2.8	21.1	59.9	71.6

BISCUIT AND CRACKERS

1927	220	32,982	$34,028,801	$107,932,438	$248,989,964	$141,057,516	49,773
1925	194	32,377	31,916,296	107,268,104	244,526,508	137,258,404	44,437
1923	[illegible]	35,117	31,357,975	89,351,464	211,788,251	122,436,787	35,212
1921	[illegible]	31,474	29,109,955	83,045,944	187,508,683	104,462,739	.....
1919	176	34,341	26,065,795	103,134,410	204,020,566	[illegible]	29,196
Per cent of increase or decrease (—):							
1925-27	13.4	1.9	6.6	[illegible]	1.8	[illegible]	12.0
1923-25	16.2	—7.8	1.9	20.1	15.5	12.1	20.2
1923-27	31.7	—6.1	8.5	20.8	[illegible]	15.2	[illegible]
1919-27	25.0	[illegible]	30.5	4.7	[illegible]	39.8	[illegible]

BAKERY PRODUCTS, OTHER THAN BISCUIT AND CRACKERS

1927	17,909	139,013	$202,197,061	$686,303,725	$1,146,710,270	$560,406,545	231,471
1925	17,490	128,034	187,659,924	560,748,396	1,023,667,999	462,919,603	182,849
1923	18,572	127,496	183,220,976	485,169,038	911,118,063	425,949,025	157,971
1921	20,024	117,026	169,828,870	515,668,056	902,462,969	[illegible]	.....
1919	24,919	107,251	132,171,264	610,105,001	947,875,753	337,770,752	136,515
Per cent of increase or decrease (—):							
1925-27	2.4	8.6	[illegible]	[illegible]	11.9	21.1	[illegible]
1923-25	—5.8	[illegible]	[illegible]	15.6	12.4	8.7	[illegible]
1923-27	—3.6	9.0	10.4	20.6	25.7	31.6	[illegible]
1919-27	—28.1	29.6	53.0	[illegible]	20.9	65.9	[illegible]

BAKERY PRODUCTS, 1927‡

	Manufacturers of— Biscuit and crackers, Quantity, lbs	Value	Other bakery products, Quantity, lbs	Value	All bakery products, Quantity, lbs	Value
Bread, rolls	25,749,243	$1,784,258	8,754,848,067	$692,137,893	8,780,097,310	$693,922,151
Biscuits, crackers, cookies	1,243,364,362	240,926,365	12,693,051	2,382,694	1,256,057,413	243,309,059
Soft cake, pastry, doughnuts	......	3,870,683	......	223,436,681	......	227,307,364
Pies	......	540	......	69,820,384	......	69,820,384
Pretzels	8,535,087	1,692,740	31,292,783	5,280,687	39,827,870	6,973,427
All other products	......	715,368	......	4,928,595	......	5,643,963
Totals	......	$248,989,954	......	$987,986,394	......	$1,236,976,348

BAKERY PRODUCTS, 1925*

	Manufacturers of— Biscuit and crackers, Quantity, lbs	Value	Other bakery products, Quantity, lbs	Value	All bakery products, Quantity, lbs	Value
Bread and rolls	30,282,027	$2,317,790	7,293,421,210	$592,059,278	7,323,703,237	$594,377,068
Biscuits, crackers, cookies	1,166,637,728	237,998,037	30,749,318	4,987,716	1,197,387,046	242,985,753
Cake, doughnuts, etc.	......	2,845,487	......	167,651,227	......	170,496,714
Pies	......	2,250	......	55,354,463	......	55,356,713
Pretzels	688,272	107,972	26,838,816	4,798,414	27,527,088	4,906,386
All other products	......	1,254,972	......	5,688,207	......	6,943,179
Totals	......	$244,526,508	......	$830,539,305	......	$1,075,065,813

*The statistics in this table are compiled from returns made by 194 establishments which reported 100 per cent of the total value of products for the biscuit and cracker branch of the industry, and 7,334 establishments which reported 81.1 per cent of the total reported by manufacturers of other bakery products.

BAKERY PRODUCTS, 1923*†

	Manufacturers of— Biscuit and crackers, Quantity, lbs	Value	Other bakery products, Quantity, lbs	Value	All bakery products, Quantity, lbs	Value
Bread and rolls	9,130,595	$662,493	8,437,777,897	$630,662,526	8,446,908,492	$631,325,019
Biscuits, crackers, cookies	1,120,378,396	207,993,781	12,879,523	1,886,089	1,133,257,919	209,879,870
Cake, doughnuts, etc.	....	466,974	....	189,785,633	....	190,251,607
Pies and other pastry	....	....	....	76,413,826	....	76,413,826
Pretzels	....	98,000	....	4,182,660	....	4,280,660
All other products	....	2,568,003	....	8,187,329	....	10,755,332
Totals	....	$211,788,251	....	$911,118,063	....	$1,122,906,314

*The statistics in this table are estimates for the entire industry, based on returns from establishments which reported 96.9 per cent of the total value of products for the biscuit and cracker branch of the industry, and 79.3 per cent of the total reported by manufacturers of other bakery products.

†This was the first census in which material of this nature was collected. ‡In addition, bread and other bakery products to the value of $5,695,340 were reported as subsidiary products by establishments assigned to other industries.

‡The statistics in this table are compiled from returns made by 220 establishments which reported 100 per cent of the total value of products for the "Biscuits and crackers" branch of the industry and 8,239 establishments which reported 86.2 per cent of the total for the "Bakery products, other than biscuit and crackers" branch. These two groups of establishments, 8,459 in number, together reported 88.7 per cent of the total value of products for the industry.

PRELIMINARY REPORT—CENSUS OF THE BAKING INDUSTRY FOR 1929

Number of establishments	[illegible]
Wage earners (average for year)	[illegible]
Wages	[illegible]
Cost of materials, containers for products, fuel and purchased electric current	$725,112,309
Value of products	$1,510,265,011
Value added by manufacture	$785,152,702

Production by Kind, Quantity and Value

	Number of establishments	Value of products
Products reported in detail	10,047	$1,380,565,961
Per cent of total	49.1	91.4
Products not reported in detail	10,435	$129,696,050
Per cent of total	50.9	8.6
Totals	20,482	$1,510,265,011

Products Reported in Detail

Bread, rolls, coffee cake, etc.—Lbs	9,812,093,648
Value	$766,059,507
Crackers, biscuit (not including raised biscuits), sponge goods, sweet goods, machine-made cookies, pretzels, etc.—Lbs	1,328,609,660
Value	$267,768,150
Soft cake (pound cake, fruit cake, package cake, etc.)—Value	$231,498,656
Doughnuts, crullers and other fried cakes—Doz	197,646,514
Value	$39,304,893
Pies—Value	$73,227,595
Miscellaneous products—Value	$12,710,160
Total value	$1,380,568,961

DETAILED REPORT BY STATES OF THE CENSUS OF THE BAKING INDUSTRY

Details of statistics issued by the United States Bureau of the Census after making a census of the baking industry in 1921, 1923, 1925 and 1927:

	Number of— Establishments	Persons in industry	Wage earners	000's omitted— Salaries	Wages	Cost of materials	Value of products	Value added
Alabama—1921	76	980	788	$169	$727	$2,684	$4,328	$1,644
1923	80	1,099	921	184	832	2,730	4,922	[illegible]
1925	69	1,170	1,002	230	1,080	3,441	6,998	[illegible]
1927	76	1,533	1,290	350	1,410	4,088	7,869	[illegible]
Arizona—1921	49	246	161	26	230	762	1,282	520
1923	48	277	206	17	291	921	1,602	681
1925	47	318	218	69	304	1,346	2,124	778
1927	47	372	263	73	394	1,313	2,429	1,049
Arkansas—1921	95	571	380	77	390	1,443	2,543	1,100
1923	77	591	465	49	462	1,550	2,695	[illegible]
1925	73	687	466	76	481	1,961	3,476	[illegible]
1927	80	773	634	100	701	2,098	4,468	2,373
California—1921	1,011	9,099	6,479	2,047	9,997	30,564	54,098	23,534
1923	1,117	10,283	7,981	2,281	12,455	32,067	[illegible]	29,325
1925	1,011	10,505	8,437	2,106	13,424	35,972	[illegible]	32,057
1927	1,093	12,016	9,707	2,401	15,261	38,086	77,968	35,596
Colorado—1921	175	1,837	1,474	334	1,741	4,874	9,309	4,435
1923	166	1,823	1,456	420	1,665	4,560	8,575	4,015
1925	168	1,702	1,422	370	1,767	5,758	10,157	4,359
1927	172	1,831	1,461	373	1,743	5,613	12,994	7,262
Connecticut—1921	394	2,761	2,008	500	2,970	8,967	15,573	[illegible]
1923	350	2,811	2,248	417	3,173	8,117	11,569	[illegible]
1925	317	2,708	2,179	369	3,329	9,098	16,254	7,156
1927	290	2,611	2,099	416	3,128	8,460	17,435	[illegible]
Delaware—1921	40	369	296	97	360	1,213	2,179	966
1923	35	401	332	75	417	1,087	2,029	942
1925	26	346	274	106	389	1,179	2,368	1,189
1927	32	407	337	81	484	1,095	2,511	1,369
District of Columbia—1921	69	1,747	1,532	431	2,415	5,326	10,234	[illegible]
1923	82	1,702	1,308	824	2,188	4,684	8,936	4,253
1925	72	1,601	1,320	311	2,561	5,342	10,068	4,726
1927	66	1,458	1,221	382	2,193	4,769	10,567	5,552
Florida—1921	127	1,112	850	172	946	3,089	5,404	2,315
1923	119	1,144	932	176	974	3,038	5,304	2,266
1925	164	1,698	1,416	262	1,801	5,513	10,093	4,581
1927	169	1,962	1,630	400	2,150	5,212	10,994	5,453
Georgia—1921	86	1,100	893	203	863	3,457	5,788	2,331
1923	90	1,321	1,110	261	1,033	3,785	[illegible]	2,557
1925	86	1,496	1,274	264	1,304	4,948	[illegible]	3,786
1927	88	1,765	1,199	346	1,026	4,657	9,191	[illegible]
Idaho—1921	62	262	175	17	236	895	1,452	557
1923	51	233	164	16	189	674	1,181	507
1925	63	269	198	15	239	963	1,592	639
1927	48	278	208	[illegible]	275	850	1,592	652
Illinois—1921	2,006	16,910	12,903	3,081	19,587	50,410	98,868	48,458
1923	1,779	17,448	13,682	3,942	20,083	51,719	105,290	53,571
1925	1,756	17,346	13,652	3,542	20,672	59,106	114,223	55,117
1927	1,990	19,062	15,097	4,630	23,077	62,129	131,035	66,254
Indiana—1921	694	5,006	3,761	890	4,482	16,195	27,117	10,922
1923	624	5,284	4,181	957	5,021	14,879	27,362	12,483
1925	494	5,098	4,080	917	5,169	16,630	30,224	13,594
1927	462	5,161	4,054	1,222	5,163	16,161	31,781	14,923
Iowa—1921	464	3,548	2,581	799	3,020	11,135	19,599	8,465
1923	434	3,631	2,819	583	3,263	10,224	19,051	8,827
1925	416	3,710	2,836	867	3,396	11,968	22,193	10,226
1927	397	3,966	3,175	721	3,740	11,731	21,360	12,045
Kansas—1921	309	1,688	1,170	184	1,442	4,987	[illegible]	3,590
1923	245	1,671	1,243	246	1,489	4,243	[illegible]	3,454
1925	293	1,862	1,389	210	1,696	5,466	[illegible]	4,591
1927	277	1,936	1,487	246	1,847	5,137	10,653	5,132
Kentucky—1921	164	1,296	984	238	1,086	4,241	[illegible]	2,630
1923	144	1,414	1,146	181	1,272	3,870	[illegible]	3,143
1925	148	1,629	1,185	326	1,393	4,771	[illegible]	3,657
1927	153	1,591	1,302	269	1,507	4,665	9,165	4,308
Louisiana—1921	226	2,347	1,859	403	1,767	6,269	[illegible]	4,093
1923	199	2,216	1,855	283	1,764	5,187	[illegible]	4,167
1925	189	2,393	1,972	417	1,964	7,026	12,256	5,230
1927	175	2,398	2,012	420	2,009	6,150	12,394	5,957
Maine—1921	142	1,180	904	162	977	3,674	5,956	2,281
1923	128	1,021	793	148	947	3,085	5,434	2,348
1925	121	1,060	803	187	884	3,360	6,187	2,827
1927	127	1,180	946	183	1,113	3,425	6,894	3,310
Maryland—1921	325	3,667	2,783	796	3,293	10,552	19,305	8,753
1923	268	3,789	3,013	1,004	3,559	10,348	20,148	9,799
1925	271	3,591	2,918	747	3,862	11,988	21,441	9,453
1927	301	4,216	3,513	836	4,416	12,318	25,253	12,429
Massachusetts—1921	1,125	10,995	8,852	1,663	11,328	33,597	63,973	30,376
1923	1,092	11,624	9,288	2,109	11,974	32,379	64,733	32,354
1925	1,031	10,442	8,429	1,833	11,390	36,517	68,846	32,329
1927	1,044	10,464	8,473	2,100	11,028	35,626	73,706	36,604
Michigan—1921	651	6,957	5,380	1,353	7,301	21,158	37,779	16,621
1923	605	7,616	6,286	1,256	8,765	22,851	43,331	20,480
1925	561	7,834	6,555	1,242	8,953	28,670	51,359	22,689
1927	533	8,159	6,562	2,724	8,797	28,693	56,023	25,220
Minnesota—1921	320	4,161	3,118	1,207	3,554	12,983	22,763	9,770
1923	298	4,089	3,440	990	3,796	10,476	21,443	10,967
1925	297	3,986	3,294	752	4,009	13,164	26,680	12,516
1927	307	3,954	3,229	1,037	3,742	11,079	23,871	12,266

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Thirteenth and Kansas Streets KANSAS CITY

DETAILED REPORT BY STATES OF THE CENSUS OF THE BAKING INDUSTRY (CONTINUED)

	Number of Establishments	Number of Persons Engaged in Industry	Number of Wage Earners	000's omitted Salaries	Wages	Cost of materials	Value of products	Value added
Mississippi—1921	55	405	264	79	244	1,102	1,699	597
1923	50	414	306	69	281	1,065	1,796	741
1925	57	482	376	70	359	1,437	2,486	1,049
1927	66	583	463	90	471	1,483	3,002	1,443
Missouri—1921	723	7,898	6,145	1,560	7,306	[illegible]	40,762	[illegible]
1923	644	7,667	6,281	1,545	7,748	[illegible]	40,888	[illegible]
1925	582	7,619	6,396	1,324	7,802	24,038	49,384	25,347
1927	702	8,138	6,629	1,693	8,244	25,393	53,953	27,425
Montana—1921	79	453	304	78	421	1,614	2,611	[illegible]
1923	101	547	387	91	541	1,559	2,893	[illegible]
1925	96	497	369	93	532	1,693	3,096	1,402
1927	85	548	412	82	584	1,745	3,463	1,617
Nebraska—1921	208	1,991	1,483	499	1,808	5,740	12,117	6,377
1923	180	2,007	1,581	480	1,782	5,603	[illegible]	6,350
1925	148	1,888	1,463	496	1,769	6,326	[illegible]	6,348
1927	135	2,019	1,564	506	1,971	5,921	13,124	6,954
Nevada—1921	13	84	55	[illegible]	84	285	449	164
1923	14	91	66	[illegible]	107	283	495	212
1925	9	77	57	20	107	321	511	190
1927	11	84	51	28	84	220	461	[illegible]
N. Hampshire—1921	103	638	493	35	626	2,296	3,507	1,212
1923	108	749	570	78	732	2,184	3,947	1,764
1925	86	678	541	60	710	2,428	3,883	1,454
1927	76	616	466	104	620	1,968	3,785	1,713
New Jersey—1921	1,193	8,460	6,366	1,208	9,967	31,153	54,008	[illegible]
1923	1,031	8,316	6,547	1,291	10,202	24,661	[illegible]	[illegible]
1925	917	7,810	6,260	1,283	10,266	28,765	[illegible]	25,066
1927	934	7,919	6,367	1,539	10,735	27,473	55,960	30,026
New Mexico—1921	30	151	106	4	116	[illegible]	615	242
1923	35	188	134	9	143	455	759	304
1925	41	197	138	18	155	504	917	363
1927	32	204	164	6	180	502	959	420
New York—1921	3,144	36,573	29,613	6,259	41,325	114,542	222,359	107,817
1923	3,127	39,251	32,126	7,447	45,455	112,961	236,546	123,585
1925	2,528	35,262	29,174	6,952	45,173	123,011	248,166	125,155
1927	2,492	36,275	30,017	8,952	45,769	121,697	273,131	145,988
No. Carolina—1921	53	476	364	81	361	1,536	2,459	923
1923	56	708	596	110	648	1,961	3,527	1,566
1925	51	790	673	127	797	2,866	4,606	1,740
1927	61	1,134	1,012	117	1,190	3,085	6,109	2,804
North Dakota—1921	50	281	204	30	250	1,045	1,729	685
1923	44	268	202	31	235	[illegible]	1,369	631
1925	46	342	253	67	272	1,227	2,056	840
1927	41	373	284	76	314	1,219	2,285	999
Ohio—1921	1,286	12,264	9,721	2,238	13,118	40,231	71,150	30,918
1923	1,115	13,636	10,996	2,683	14,218	39,377	74,544	35,167
1925	1,225	13,880	11,087	3,100	14,977	48,048	89,107	40,059
1927	1,114	13,864	11,373	3,559	14,688	47,306	92,990	43,782
Oklahoma—1921	208	1,483	1,061	229	1,226	4,248	7,690	3,442
1923	145	1,351	1,068	180	1,259	3,892	7,131	3,239
1925	140	1,458	1,196	139	1,341	4,951	9,169	4,218
1927	180	1,721	1,362	200	1,620	5,679	[illegible]	6,073
Oregon—1921	154	1,621	1,250	309	1,615	5,084	[illegible]	4,192
1923	169	1,764	1,397	417	1,876	5,449	10,085	4,636
1925	157	1,699	1,338	356	1,903	5,461	10,103	4,642
1927	161	1,685	1,296	449	1,820	4,932	9,396	4,464
Pennsylvania—1921	2,314	23,488	18,413	4,803	23,628	73,347	131,412	58,065
1923	2,023	24,596	20,107	5,010	25,546	68,551	131,745	63,194
1925	1,931	24,126	19,911	4,516	26,598	77,185	150,816	73,631
1927	1,900	26,524	22,376	5,342	29,850	76,656	[illegible]	84,796
Rhode Island—1921	175	1,704	1,379	[illegible]	1,827	5,464	9,308	3,843
1923	151	1,770	1,373	419	1,775	4,848	9,553	[illegible]
1925	133	1,625	1,260	343	1,654	5,164	9,206	4,042
1927	133	1,508	1,246	377	1,681	4,628	9,377	4,513
So. Carolina—1921	38	455	363	101	355	1,559	[illegible]	[illegible]
1923	40	501	428	60	424	1,330	[illegible]	[illegible]
1925	35	602	488	134	481	1,630	2,868	1,284
1927	35	585	485	130	556	1,691	3,157	1,703
South Dakota—1921	85	520	338	120	384	1,522	2,630	[illegible]
1923	75	502	357	121	409	1,591	2,921	1,330
1925	69	604	466	126	457	1,798	3,148	1,361
1927	76	605	445	149	503	1,729	3,351	1,624
Tennessee—1921	100	1,340	1,079	265	949	3,552	6,496	[illegible]
1923	99	2,001	1,691	341	1,482	4,449	8,585	4,136
1925	91	1,808	1,543	850	1,405	5,146	10,101	4,955
1927	84	2,220	1,852	549	1,597	5,593	12,093	[illegible]
Texas—1921	452	3,553	2,690	448	2,918	11,758	18,722	[illegible]
1923	436	3,768	[illegible]	472	3,310	10,100	18,812	[illegible]
1925	419	3,933	[illegible]	583	3,657	13,818	22,829	19,011
1927	466	4,668	3,827	825	4,497	13,541	27,093	12,531
Utah—1921	63	692	541	112	576	1,620	3,021	[illegible]
1923	53	545	433	97	473	1,426	2,767	[illegible]
1925	43	496	418	93	453	1,785	3,256	1,471
1927	44	599	483	113	533	1,791	3,527	1,649
Vermont—1921	57	404	289	67	316	1,355	2,297	[illegible]
1923	54	391	[illegible]	79	325	1,397	2,351	[illegible]
1925	45	422	[illegible]	123	407	1,660	2,827	967
1927	44	369	279	103	392	1,390	[illegible]	1,099
Virginia—1921	97	1,613	1,245	448	1,476	[illegible]	[illegible]	[illegible]
1923	88	1,512	[illegible]	430	[illegible]	[illegible]	[illegible]	[illegible]
1925	83	1,463	[illegible]	367	1,440	5,291	9,244	4,042
1927	90	1,652	1,380	351	1,677	[illegible]	10,596	[illegible]
Washington—1921	260	2,369	1,769	552	2,564	7,394	[illegible]	[illegible]
1923	267	2,543	2,020	636	2,827	[illegible]	[illegible]	[illegible]
1925	313	2,657	2,046	491	3,108	8,935	16,399	7,566
1927	382	3,071	2,955	622	[illegible]	[illegible]	19,417	9,074
W. Virginia—1921	124	1,195	868	185	1,173	4,706	7,441	[illegible]
1923	110	1,183	967	197	1,329	4,263	[illegible]	[illegible]
1925	119	1,344	1,109	269	1,414	5,285	9,134	3,849
1927	111	1,592	1,256	406	1,745	[illegible]	10,778	5,021
Wisconsin—1921	582	3,907	[illegible]	665	3,416	11,461	[illegible]	[illegible]
1923	559	4,372	3,401	805	4,231	11,435	22,181	11,000
1925	521	4,821	3,741	917	4,921	14,841	27,237	13,146
1927	514	5,362	4,159	966	[illegible]	[illegible]	29,397	15,722
Wyoming—1921	47	181	118	35	129	416	[illegible]	413
1923	48	215	154	55	179	599	[illegible]	[illegible]
1925	40	164	111	13	163	527	908	381
1927	37	174	170	177	451	897	1,319	[illegible]

Note—Figures for 1923, 1925 and 1927 do not include establishments reporting products under $5,000 in value.

BAKING INDUSTRY—SUMMARY SINCE 1869

	Number of establishments	No. wage earners	Capital	Wages	Cost of materials	Value of products	Value added†
				(000's omitted)			
1927*	18,329	173,995	$.....	$236,226	$693,236	$1,394,700	$701,464
1923*	17,964	169,411	$.....	218,[illegible]	[illegible]	1,266,195	600,178
1923*	18,739	162,618	$.....	214,579	576,521	1,122,934	546,314
1921*	20,173	145,600	$.....	196,929	524,614	1,009,972	491,358
1919	25,095	141,592	$593,266	154,237	713,239	1,151,956	438,657
1914	25,963	124,052	271,252	76,847	274,257	491,893	217,636
1909	22,926	100,214	212,910	59,251	238,024	394,865	156,531
1904	18,226	81,278	122,353	43,172	156,939	269,583	113,594
1899	14,836	60,122	80,902	27,964	95,952	178,269	80,317
1889	10,484	35,841	45,753	19,123	72,508	131,422	58,914
1879	6,396	25,468	19,155	9,411	42,612	65,825	23,213
1869	3,550	14,126	10,926	5,353	22,212	36,908	14,696

*Does not include data for establishments each reporting products under $5,000 in value. †Value of products less cost of materials. ‡Not reported since 1921.

MATERIALS USED IN BAKERIES

1927†

	Quantity	Value		Quantity	Value
Flour, total (bbls)..	38,782,880	$271,924,140	Eggs		$31,684,520
Wheat—White	35,769,816	250,368,565	Butter and butter substitutes, lbs....	46,780,872	14,868,796
Graham and whole wheat..	909,255	6,664,089	Lard, lbs	176,663,267	25,836,530
Totals, wheat...	36,679,071	$257,032,654	Lard substitutes, lbs	133,579,241	17,364,840
Rye	1,788,881	7,861,852	Other shortening, lbs	93,443,342	12,174,278
Other	898,478	7,029,634	Yeast, lbs	95,665,955	17,917,163
Sugar, lbs	789,238,721	48,535,510	Malt extract, lbs ...	44,960,379	3,172,393
Milk—Fluid, lbs ..	79,573,799	4,375,566	Total		$465,340,270
Condensed and evaporated	148,662,274	11,301,062			
Powdered	52,368,629	6,185,172			
Milk, totals, lbs.	280,604,702	$21,861,800			

†This includes only 8,738 establishments that reported materials used in detail. These establishments produced 87.9 per cent of the total value of products for the industry.

1925†

	Quantity	Value		Quantity	Value
Flour total (bbls)....	34,916,050	$272,226,980	Lard and other shortening (lbs) ...	368,755,585	$54,356,586
Wheat	32,432,694	254,054,328	Milk, total (lbs)...	.....	18,940,441
Rye	1,085,796	6,978,680	Fluid	77,046,698	4,138,473
Other	1,416,600	11,193,948	Condensed 131,072,878		10,162,084
Malt extract (lbs)...	40,847,043	2,948,272	Powdered	36,693,035	4,639,884
Sugar (lbs) 674,763,976		40,706,899	Yeast (lbs)	81,218,279	16,403,709
Eggs		29,950,315	All other materials..		45,296,978
Butter and butter substitutes (lbs) ..	30,126,506	11,508,401	Total		$492,368,587

†This only includes 7,998 establishments that reported the materials they used in detail.

EQUIPMENT, 1925*

Ovens				Transportation			
Drawplate	Peel	Traveling	Rotary	Total	Horse drawn	Gasoline	Electric	Total
2,038	17,372	622	1,298	27,055	8,991	28,879	3,870	41,740

*Ovens reported by 15,800 establishments and delivery equipment by 9,713 establishments.

1923

Estimates for the entire industry, based on returns from establishments which reported 98.2 per cent of the total value of products for the biscuit and cracker branch of the industry, and 76.6 per cent of the total reported by manufacturers of other bakery products.

	Manufacturers of—					
	Biscuit and crackers		Other bakery products		All bakery products	
	Quantity	Value	Quantity	Value	Quantity	Value
Wheat flour, bbls.....	3,973,654	$20,557,199	30,996,421	$197,624,724	34,964,075	$218,081,923
Rye flour, bbls	1,687	6,730	1,400,303	7,379,423	1,401,990	7,386,153
Other flour, bbls	59,451	320,043	1,333,775	8,054,465	1,393,226	8,390,508
Sugar, lbs 159,778,890		10,029,269	507,841,267	45,418,637	667,620,157	61,447,926
Eggs, cases	177,209	1,475,383	2,610,126	20,226,782	2,787,335	21,702,165
Butter, lbs	5,455,368	2,300,256	27,971,861	11,118,771	33,427,219	13,419,027
Lard, lbs	74,406,524	9,158,144	196,922,018	26,080,249	271,328,542	35,238,393
Other shortening, lbs..	22,380,318	2,869,158	96,079,210	13,264,404	118,459,528	16,133,562
Fluid milk, lbs	13,861,495	546,571	95,695,371	4,972,245	109,556,866	5,519,116
Condensed milk, lbs...	2,806,433	220,017	131,750,254	12,554,488	134,556,717	12,774,505
Powdered milk, lbs ...	2,040,790	390,695	31,001,783	4,234,907	33,042,573	4,625,602
Fruits and nuts, lbs...	28,690,957	3,287,796	96,672,844	15,472,789	125,263,801	18,760,585
Chocolate and cocoa, lbs	19,626,277	2,798,018	7,297,988	1,323,818	26,924,235	4,108,833
Yeast, lbs	607,467	127,662	86,118,688	18,700,817	86,723,025	18,828,499
All other materials....	.....	6,493,992	.....	31,056,268	.....	37,550,260
Totals	.....	$66,574,270	.....	$417,392,787	.....	$483,967,057

EQUIPMENT, 1923*

Compiled from returns made by establishments which contributed approximately 98 per cent of the total value of products for the industry as a whole.

Ovens			Transportation			
				Trucks		
Peel	Draw plate	Traveling	Revolving	Horse wagons	Gasoline	Electric
23,998	1,542	363	2,679	12,293	23,331	2,921

*This information was not compiled in 1921.

PRIME MOVERS IN BAKERIES

	1927		1925		1923	
	Number	Capacity h-p	Number	Capacity h-p	Number	Capacity h-p
Prime movers—Steam engines.....	258	33,873	293	32,455 }		
Steam turbines	18	1,470	6	1,075 }	379	33,224
Internal combustion engines ..	161	2,153	261	3,345	335	3,626
Water wheels and turbines....	2	500	2	400	6	411
Electric motors driven by purchased current	72,189	246,242	56,574	189,411	49,615	155,925
Total prime movers	72,648	284,244	57,136	227,286	50,335	193,186
Electric motors—						
Driven by purchased current...	72,189	246,242	56,574	189,411	49,615	155,925
Driven by current generated in establishment reporting	6,676	28,407	5,836	27,451	4,784	25,792
Total electric motors.....	78,865	274,649	62,410	216,862	54,399	181,717
		Kilowatts		Kilowatts		Kilowatts
Electric generators	157	18,496	261	20,721	*....	*.....

*Not called for on schedule.

COSTS AND PROFITS OF SMALL BAKERIES

Statement published by Baking Technology in 1926, showing reports from eight bakeries, prepared by John C. McAlpine, member American Institute of Accountants, of 1411 Walnut Street, Philadelphia, Pa.

No interest on investment taken. All depreciation in one item. No income tax included. Computed on basis of barrels of flour used.

	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
Flour used, bbls, 1925.....	23,473	6,609	8,728	20,619	31,144	11,240	9,948½	5,515
Costs—Flour	$8.65	$8.89	$8.49	$8.44	$9.29	$8.06	$8.50	$8.78
Other materials	2.55	2.49	2.16	2.53	2.49	3.23	2.56	3.24
Bakers' wages	1.50	1.63	1.42	2.21	1.61	2.19	2.15	1.98
Operating repairs, fuel, light and power	1.86	.93	.78	1.35	2.16	1.20	1.21	1.45
Wrapping and packing...	.46	.51	.75	.57	1.04	.89	.84	1.12
Horse, wagon and auto express	1.25	.98	1.31	1.25	.15	1.16	2.15	.53
Drivers and route men...	1.37	1.42	2.19	2.16	....	1.72	3.41	1.20
Delivery and shipping ...	1.04	.76	.18	.17	.31	.67	.44	.78
Advertising	.46	.32	.13	.96	.36	.10	.10	.26
Managers	.94	1.61	.97	.50	1.31	.90	.45	1.07
Office expense	.61	.61	.23	.51	.42	.31	.30	.39
Interest, taxes and insurance	.31	.38	.44	.46	.37	.46	.13	.23
Bad debts	.07	....	.13	.13	....	.03	.29	....
Depreciation (all depts.).	.32	.86	1.04	.53	.43	.39	.89	.69
Total cost	$21.39	$21.09	$20.20	$21.77	$19.94	$21.30	$23.52	$21.77
Profit per bbl	1.10	.30	1.14	.30	2.36	1.77	1.71	2.09
Selling price per bbl	$22.49	$21.39	$21.34	$22.07	$22.30	$23.07	$25.23	$23.86

COSTS ON PERCENTAGE OF SALES

	Per cent							
Materials	49.79	53.19	49.91	54.04	52.89	51.08	44.36	50.36
Manufacturing	17.00	14.33	13.79	16.37	21.53	18.51	19.42	19.29
Selling and delivery	18.33	15.00	17.84	18.59	3.72	14.67	22.46	12.60
Administration and depreciation	9.99	16.07	13.08	8.83	11.26	9.03	7.49	8.97
Total cost	95.11	98.59	94.62	97.83	89.39	93.29	93.72	*91.22
Profit	4.89	1.41	5.38	2.17	10.61	6.71	6.28	8.78
Sales	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

PREPARED FEEDS FOR ANIMALS AND FOWLS

This industry embraces establishments engaged primarily in the manufacture of prepared feeds for animals and fowls. Some of these establishments grind the grain which they use, while the others purchase their materials. At prior censuses the former were classified in the "Flour and other grain-mill products" industry and the latter in the "Food preparations, not elsewhere classified" industry. The products consist chiefly of two classes, namely, prepared feeds made chiefly from grain, and prepared feeds composed principally of ingredients other than grain, such as molasses, bone meal, meat scraps, ground oyster shells, etc. The item "Other products" comprises graham flour, corn meal, feed (screenings, cracked corn, chops, etc.), and cereal breakfast foods. These are normally products of other industries, but data for such commodities made as secondary products in the "Feeds, prepared, for animals and fowls" industry are included in order to present complete product statistics for this industry.

PRODUCTS, BY KIND, QUANTITY AND VALUE: 1927

1. "Feeds, prepared, for animals and fowls" industry, all products, total value.	$209,792,642
2. Prepared feeds for animals and fowls	283,823,253
3. Other products (not normally belonging to the industry).....	15,969,249
4. Prepared feeds for animals and fowls, made as secondary products in other industries, value	106,737,097
Prepared feeds for animals and fowls, all industries:	
Total value (sum of 2 and 4).....	$390,560,390
Made chiefly from grain*—	
Tons	7,153,753
Value.....	$318,012,718
Made chiefly from ingredients other than grain—value	$72,547,672

*Includes 259,248 tons of alfalfa meal, valued at $5,159,161.

PRODUCTION BY STATES—1927

MADE CHIEFLY OF GRAIN			MADE CHIEFLY OF INGREDIENTS OTHER THAN GRAIN	
State—	Tons	Value	State—	Value
Alabama	87,547	$3,804,170	California	$3,841,041
Arkansas	103,771	4,123,869	Colorado	288,707
California	679,877	30,268,659	Connecticut	219,946
Colorado	109,339	2,532,356	Illinois	14,901,348
Connecticut	36,377	1,541,074	Indiana	2,864,637
Georgia	37,601	1,614,600	Iowa	2,744,624
Idaho	12,745	531,606	Kansas	1,384,293
Illinois	886,415	37,610,569	Kentucky	669,346
Indiana	178,597	9,963,697	Louisiana	854,493
Iowa	222,327	10,704,024	Maryland	732,161
Kansas	67,401	2,672,938	Massachusetts	1,750,766
Kentucky	118,853	5,649,242	Michigan	671,832
Louisiana	46,027	1,800,562	Minnesota	2,414,232
Maryland	77,963	3,580,404	Mississippi	1,142,327
Massachusetts	65,334	3,046,613	Missouri	1,401,952
Michigan	68,059	3,031,613	Montana	345,511
Minnesota	310,421	13,955,183	Nebraska	2,187,488
Mississippi	142,285	6,187,403	New Jersey	2,104,442
Missouri	637,881	28,337,349	New York	13,608,542
Nebraska	67,348	2,608,304	Ohio	2,361,201
New Jersey	14,814	644,172	Oregon	969,623
New York	766,667	36,761,792	Pennsylvania	3,031,504
North Carolina	16,420	767,860	Texas	1,570,153
Ohio	533,711	27,875,863	Virginia	343,556
Oklahoma	36,712	1,672,896	Washington	1,166,170
Oregon	73,564	3,652,856	Wisconsin	1,571,251
Pennsylvania	347,234	15,554,961	Other states	7,045,825
Tennessee	459,656	21,173,761		
Texas	186,342	8,312,406		
Vermont	89,383	4,431,648		
Virginia	26,248	1,218,339		
Washington	323,693	14,856,248		
West Virginia	27,814	1,246,560		
Wisconsin	112,176	4,378,388		
Other states	123,354	3,700,803		
United States 7,153,753		$318,012,718	United States	$72,547,672

DETAILED REPORT BY STATES OF FEED INDUSTRY CENSUS—1927

State—	Number of— Establishments	Persons in industry	Wage earners	000's omitted— Salaries	Wages	Cost of materials	Value of products	Value added
Alabama	12	229	168	$120	$124	$3,572	$4,276	$655
Arkansas	4	90	56	87	53	1,936	2,270	324
California	57	1,040	698	570	964	23,732	28,173	4,397
Colorado	20	274	239	56	250	1,875	2,518	617
Connecticut ..	6	95	66	66	91	1,145	1,726	553
Georgia	8	78	55	37	40	1,203	1,549	335
Idaho	5	11	8	1	6	66	91	22
Illinois	28	1,488	1,011	975	1,383	37,420	45,572	7,976
Indiana	8	375	207	247	323	9,247	11,301	1,986
Iowa	11	163	105	121	115	3,049	4,042	968
Kansas	9	127	76	94	84	1,959	2,624	606
Kentucky	6	153	104	96	102	3,186	3,686	453
Louisiana	9	180	145	72	143	2,126	2,746	563
Maryland	8	161	108	101	89	1,797	2,184	369
Massachusetts	7	157	114	80	132	1,463	1,977	493
Michigan	9	106	58	93	85	1,797	2,184	369
Minnesota ...	10	314	199	211	266	7,272	9,262	1,934
Mississippi ..	7	247	190	124	137	6,108	6,916	772
Missouri	21	1,607	693	1,835	1,023	22,428	30,127	7,494
Nebraska	6	85	66	30	77	1,227	1,568	327
New Jersey...	10	227	156	141	215	1,025	1,766	656
New York ...	36	1,384	1,006	973	1,614	39,940	48,366	8,192
Ohio	17	526	380	229	527	15,566	18,525	2,872
Oklahoma	4	91	55	64	64	927	1,183	256
Oregon	5	74	51	38	66	1,419	1,616	155
Pennsylvania.	20	408	316	265	402	10,340	12,356	1,955
Tennessee	13	718	474	498	411	15,462	20,337	4,781
Texas	14	240	166	132	172	4,467	6,120	1,617
Vermont	6	185	148	92	166	7,220	8,300	1,056
Virginia	8	57	39	17	32	482	594	107
Washington....	33	266	207	99	297	7,543	8,821	1,229
Wisconsin ...	13	245	156	154	228	4,117	5,048	872
Wyoming	3	19	19	...	20	67	102	31
Other states*.	12	147	103	67	110	1,326	1,674	317
U. States...	447	11,567	7,632	$7,772	$9,703	$242,713	$299,793	$55,117

*Arizona, 1 establishment; Delaware, 2; District of Columbia, 1; Florida, 1; Montana, 1; New Hampshire, 2; New Mexico, 1; North Carolina, 2; Rhode Island, 1; West Virginia, 1

Chicago—Wheat Corner Days

Corners were run in wheat on the Chicago market as follows:

1867—On May 18 prices were forced to $2.85, but closed at $2.16.

1871—August of this year prices were advanced to $1.30, but closed at $1.10½.

1872—During August wheat sold to $1.61, but closed at $1.19.

1880—During May of this year wheat was $1.12@1.19, and closed at $1.14.

1881—August of this year prices advanced from $1.19 to $1.38, and closed at $1.38.

1882—A corner was run in April, June, July and September.

1887—In June the memorable Cincinnati combination to corner wheat developed. Prices were advanced from 80¾c to 94¾c, but market collapsed and declined to 88c.

1888—It was in September when a successful corner was run, wheat selling from 89¾c to $2—top prices reached the closing day.

1898—In May wheat sold to $1.85, but not successful, and closed at $1.25.

1902—In September a successful corner was run, wheat selling up to 95c, and closed at that figure.

1909—In May a corner was run and the closing price was $1.34.

1909—In September the market closed at $1.20, prices taking a sudden advance of about 14c the last day.

1916—In September the market closed at $1.16¼, prices advancing about 6c just before the close of the session.

Name of Manufacturer in Brand

As to the phrasing of brands, the United States Department of Agriculture lays down this rule:

"This department does not require a manufacturer to declare his name on the label of his products. However, where a name is declared, it should be the name of the actual manufacturer unless preceded by some phrase such as 'packed for,' 'distributed by,' or their equivalent."

Recipe for Making Men

Ingredients

One Red Blooded Boy
Parents' loving care
Outdoor exercise
Some Study (not too much)
Reasonable amount of work
Nourishing food (good bread)

Method

Mix work and play with study. Combine wisely under direction of loving parents. Add muscle building foods—plenty of nourishing bread. Rear with patience and understanding. Turn out at 21, a credit to parents. This recipe makes one man.

Only a mother knows the painstaking care required to raise a boy right. Good bread and plenty of it is a great help. Is it any wonder that smart mothers patronize bakers who make their bread *good* with Seal of Minnesota flour?

INTERNATIONAL MILLING COMPANY
MINNEAPOLIS BUFFALO

SEAL OF MINNESOTA

FLOUR MILLED FROM TESTED WHEAT

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MILL MUTUAL INSURANCE

is

Sound Insurance

	Cash surplus— Dec. 31, '29	Dec. 31, '30
Millers Mutual Fire Ins. Association, Alton, Ill.	$1,069,280	$1,156,993
Western Millers Mutual Fire Ins. Co., Kansas City, Mo.	458,616	474,086
Michigan Millers Mutual Fire Ins. Co., Lansing, Mich.	1,511,599	1,529,828
Mill Owners Mutual Fire Ins. Co., Des Moines, Iowa	1,310,434	1,232,488
Millers Mutual Fire Ins. Co., Harrisburg, Pa.	898,128	913,989
Millers Mutual Fire Ins. Co., Fort Worth, Texas	552,809	617,236
Pennsylvania Millers Mutual Fire Ins. Co., Wilkes-Barre, Pa.	1,103,803	1,548,212
Ohio Millers Mutual Ins. Co., Van Wert, Ohio	127,123	133,755
Grain Dealers National Mutual Fire Ins. Co., Indianapolis, Ind.	1,289,692	1,350,080
Millers National Ins. Co., Chicago, Ill.	1,852,993	1,847,793
Totals	$10,174,507	$10,831,380
Increase during 1930		$359,873

Mutual Fire Prevention Bureau

230 East Ohio Street - CHICAGO, ILLINOIS

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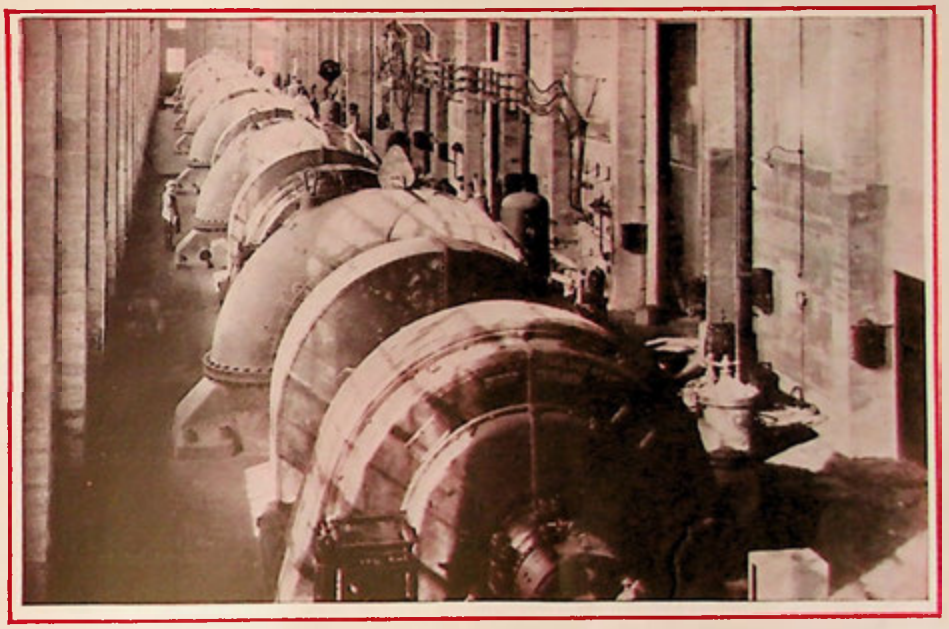

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