

SEPTEMBER, 1917

INSPECTION CIRCULAR NO. 5.

AGRICULTURAL EXPERIMENT STATION

KANSAS STATE AGRICULTURAL COLLEGE

DEPARTMENT OF MILLING INDUSTRY,

FEED CONTROL OFFICE

Feed Registration under the Kansas Feeding-stuffs Law

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The purpose of the feeding-stuffs law is to compel each feed to be sold for exactly what it is, and upon its own merits. A consumer is entitled to know what he is buying. A manufacturer or dealer is entitled to know what is being sold. The fact that a feed is registered is evidence that it contains nothing harmful, if properly used. The inspection and analysis at frequent intervals informs the director of the experiment station of the reliability of the guarantee. If the feed does not come up to the guarantee the registration may be canceled. The law is a protection to the consumer, dealer, and manufacturer.

FEEDS THAT MUST BE REGISTERED AND LABELED.

All feeds except whole seeds or grains, whole hays, straws, and corn stover, when not mixed with other material, and all other material containing 60 percent or more of water, require registration and label. Some of the common feeds which must be registered and labeled are: Corn chop, kafir chop, oats chop, ground, cut or chopped alfalfa, bran, shorts, wheat mixed feed, corn bran, corn chop and bran mixed, corn-and cob meal, bran and screenings, wheat mixed feed and screenings, shorts and screenings, cottonseed cake and meal, cold, pressed cottonseed, oil meal, meat meal, bone meal, blood meal, tankage, all poultry feeds, all mixed feeds.

The term "brand," as used herein has two meanings: first; the name, trade-mark or other designation under which a commercial feeding-stuff is sold; and second, the feeding-stuff.

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INSTRUCTIONS.

Careful observation of the appended instructions will enable one to avoid more or less difficulty in registering feeds and otherwise complying with the law.

REGISTRATION.

1. All applications for registration must be made on blanks furnished by the feed-control office. Each application must be accompanied by the necessary registration fee, or, in case of feeds on tonnage-tax basis, by an order for not less than five dollars' worth of stamps or tags for each brand of feed registered.

2. *All spaces on the application blank should be carefully and properly filled in.*

3. The firm name signed to the application must be the one used on the label.

4. In filling in name of brand on the application the exact name used upon the label must be given. For example, a feed registered as "wheat shorts" must not be labeled or sold as "brown shorts," "white shorts" or "white middlings."

5. Separate registration is required for the various brands or grades of shorts, cottonseed meal and similar feeds.

6. The specific name of each ingredient used in making up the feed must be given on the application.

7. In making up the guaranty from results of analysis the percentages of protein and fat should be slightly lowered and the percentage of crude fiber should be raised somewhat to provide for differences in composition of the raw material or slight variations in the manufacturing process, but in no case should the guarantee of a feed for which a standard has been adopted show a less percent of protein or fat or a greater percent of crude fiber than the standard minimum guarantee. (See table 1.)

8. Manufacturers having difficulty in determining proper guaranties are invited to write to the feed-control office regarding this matter.

9. A record of all feeds registered, together with their guaranteed ingredients and composition, should be kept on file by each manufacturer.

10. Permission must be obtained from the feed-control office before making any change in the guaranteed ingredients

or composition of any registered feed. If satisfactory reasons are given permission will be granted.

11. All registrations expire on June 30 of the fiscal year during which they are filed.

REGISTRATION FEE.

1. Flour mills having capacity of manufacturing more than 300 barrels of flour in twenty-four hours are required to pay an annual registration fee of \$10 for each brand of feeding-stuff of their manufacture sold in this state.

2. Flour mills having capacity of manufacturing more than 50 barrels and not to exceed 300 barrels of flour in twenty-four hours are required to pay an annual registration fee of \$8 for each brand of feeding-stuff of their manufacture sold in this state.

3. Flour mills having capacity of manufacturing not to exceed 50 barrels of flour in twenty-four hours are required to pay an annual registration fee of \$3 for each brand of feeding-stuff of their manufacture sold in this state.

4. In case the same brand is manufactured at more plants than one, a separate registration fee must be paid on said brand for each separate plant.

5. The annual registration fee for all other feeds is \$8 per brand, except that the fee for chops and corn bran is based upon the following schedule:

(a) \$1 when the annual output of chops or corn bran does not exceed 50 tons.

(b) \$2 when the annual output of chops or corn bran is more than 50 tons and does not exceed 200 tons.

(c) \$5 when the annual output of chops or corn bran is more than 200 tons and does not exceed 500 tons.

TONNAGE TAX.

No registration fee is required on poultry feeds, the by-products of starch factories, glucose factories, cereal breakfast-food factories, breweries, distilleries, meat-packing establishments or slaughter houses. These feeds must be registered annually and are subject to a tonnage tax of ten cents per ton, payment of which is required to be shown by a tax stamp or tag, which must be affixed to each package or parcel thereof. Application for the registration of any of the feeds mentioned in this paragraph must be accompanied by an order for not

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less than \$5 worth of tax stamps, or tags, for each brand registration is applied for. If it is desired that tax stamps or tags be sent by mail, postage must be included. Stamps and tags are issued as follows:

- Gummed stamps good for not over 10 lbs. (2000 for \$1).
- Gummed stamps good for not over 25 lbs. (800 for \$1).
- Tags good for not over 50 lbs. (400 for \$1).
- Tags good for not over 100 lbs. (200 for \$1).

LABELS.

1. The following information is required upon the label:
 - (a) Name and principal address of person or firm responsible for placing the feed upon the market.
 - (b) Minimum net weight of the contents of the package.
 - (c) Name, brand or trade-mark of the feed.
 - (d) The guaranty :
 - Protein, not *less* than_____percent.
 - Fat, not *less* than_____percent.
 - Crude fiber, not *more* than....._____percent
 - (e) The specific name of each ingredient used in manufacturing the feed. (In case any adulterant mentioned in section 12 of the feeding-stuffs law is added to the feed, the maximum percent must be stated upon the label. Attention is called to the fact that unwholesome or injurious materials must not be used in the manufacture of feeds.)

A good form of label is as follows:

100 lbs. Net Weight.
CORN CHOP
GUARANTY
Made from country run corn, and contains
Protein, not less than.....9.0%
Fat, not less than.....3.5%
Crude fiber, not more than.....3.5%
Manufactured by
John Doe Milling Company,
Doeville, Kan.

2. In case the feed is adulterated with screenings, foreign mineral matter or other foreign substance, such as rice hulls, chaff, corn-cob meal, corn bran, oat hulls, oat clippings, or other materials of less or of little or no feeding value, the kind and definite maximum amount of such adulterant must be stated upon the label.

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3. In order to avoid misunderstandings it is requested that a sample tag, or copy of the label required by section 2 of the law, be submitted with each application for registration.

4. All feeds leaving the plant must be properly registered and labeled.

5. Dealers should see that all feeds are properly labeled before exposing them for sale. When tags are torn off in handling, duplicate tags must be attached.

6. The use of a "sliding scale," or two sets of figures in the guaranty, is forbidden on feed sold in this state. For example, protein 41 to 43 percent is misleading: Definite minimum and maximum guaranties must be used.

NET WEIGHT.

The legislature of 1917 changed the weights and measures law so that a standard sack of feed must now be 100 pounds *net* instead of 100 pounds gross. Any one selling any package containing less than 100 pounds net for a sack of feed, without making a special contract or agreement regarding the weight, is liable to prosecution.

A label, or any other form of notice as to the contents of a sack of feed, or shipment thereof, does not constitute a contract relative thereto. In order to be a contract, all parties concerned must have knowledge of, and give their assent to, the provisions of the contract.

CAUTION.

All persons or firms in this state who purchase feed are cautioned against buying that which does not comply with Kansas law. It is advised that the clause, "The feed delivered upon this contract must comply with Kansas law," be inserted in all contracts for feed.

WARNING TO PERSONS OR FIRMS ATTACHING LABELS TO FEED
AFTER IT HAS BEEN SHIPPED INTO THE STATE.

If any person or firm within this state attaches labels to feed shipped into the state, such person or firm will be held responsible for the feed so labeled, notwithstanding the fact that the labels may have been furnished by the manufacturer, dealer or broker from whom the feed was obtained and bear his guarantee.

Should such feed be found below guarantee, either in weight or quality, the person or firm within the state who attached

the labels to such feed will be liable to prosecution for selling, offering or exposing for sale or distributing it within the state.

Therefore, all persons or firms who purchase feed outside of the state should insist upon its being *labeled before shipment* into the state with a label guaranteeing weight and quality, as required by Kansas law.

SWORN STATEMENTS.

1. It is required by law that any firm or person having chops or corn bran registered at less than the maximum fee of \$8 shall, on or before June 30 of each year, file with the director of the experiment station a sworn statement of the maximum amount of chops or corn bran which such firm or person has manufactured and sold within the state during the fiscal year.

2. Blank forms for making the sworn statement required by law will be furnished by the feed-control office upon request.

REGISTRATION SAMPLES.

When called for, samples of all feeds must be sent prepaid with the application for registration. A registration sample should consist of at least one pound.

ANALYSIS OF SAMPLES.

1. If it is desired that the feed-control office make a chemical analysis of a sample to determine the percentage of protein, fat or fiber, this work will be done at the following rates: Charge for determining protein, \$2; fat, \$2; crude fiber, \$4; or all three for \$5. The feed-control office does not guarantee that the analysis made of samples submitted by an individual or firm is representative of the product. The office merely guarantees that the composition of the sample submitted is as reported. Those taking samples for analysis should be extremely careful to secure a representative sample.

2. In making up samples for analysis, small samples should be taken from a number of different sacks, or taken from the spout at different times during the run. These samples should be thoroughly mixed and an average sample consisting of at least two pounds forwarded for analysis. When samples are sent in for analysis, full information should accompany each sample, as follows :

1. Name and address of the sender.

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2. Name and address of seller, if manufactured by other than the sender.
3. Name and address of the manufacturer if different from that of the seller.
4. The guaranty, if any. If there is no guaranty that fact should be stated.

This information is desired in order that the feed control office may be better able to protect the interests of the consumers, dealers and manufacturers of this state.

CORRESPONDENCE.

All correspondence relating to the registration of feeding-stuffs should be addressed to the Feed Control Office, Manhattan, Kan.

CHECKS AND DRAFTS.

Checks, drafts and remittances of all kinds should be made payable to the Feed Control Office.

JUDGING QUALITY FROM GUARANTEE.

By comparing the guarantee of any feed with the *average* analysis of similar feeds, as shown in Tables III and V, its relative quality may be determined.

FIBER LEAST VALUABLE.

Fiber is the least valuable constituent of feeds. When the fiber content of a feed is high the value of the feed is correspondingly low.

JUDGING THE QUALITY OF WHITE SHORTS FROM GUARANTEE.

In judging the quality of white shorts from guarantee special attention should be paid to the fiber content. If the fiber content is high it indicates that a large percent of the bran coatings is present, and these make a darker and coarser produce, more like standard shorts.

FIGURING COMPARATIVE COST FROM GUARANTEE.

To find the amount of any constituent of a feed (protein, fat or fiber) which \$1 will buy at a given price, multiply the percent present by 20 and divide the result by the given price per ton.

Illustration: How many pounds of protein can be obtained for \$1 invested in 41 percent cottonseed meal at \$38 per ton?

1 ton of this meal contains 820 lbs. protein.

(41 X 20 cwt. in 1 ton = 820 lbs.)

If \$38 buys 820 lbs., \$1 will buy 1/38 of 820 lbs., or 2.158 lbs.

FIGURING REBATE DUE IN CASE OF DEFICIENCY OF PROTEIN IN COTTONSEED PRODUCTS, TANKAGE, LINSEED MEAL, ETC.

To find the rebate due, divide the cost per ton by the percent of protein guaranteed, and multiply that result by the percent deficient. Then multiply this result by the number of tons purchased.

Illustration: If a shipment containing 20 tons of cottonseed meal costing \$38 per ton is purchased under a guaranty of 43 percent protein, and is found to contain but 37.6 percent protein, how much rebate is due?

$\$38.00 \div .43 = \0.883 + (cost per ton of 1% protein).

$43 - 37.6 = 5.4$ (percent protein deficient),

$5.4 \times .883 = \$4.77$ - (cost per ton of 5.4% protein).

$20 \times \$4.77 = \95.40 (amount rebate due).

POULTRY FEEDS.

Many poultry feeds contain screenings and grit. In some cases as much as 20 percent of grit has been used, and the kind of grit has not always been specified on the label, as required by law. The kind of grit and the maximum percent, both of screenings and of grit, must be designated. A small percent of some kinds of grit may be beneficial to confined poultry which can not obtain a sufficient amount from other sources. However, the presence of such grit as common river sand in excessive amounts is to be condemned as fraudulent.

COMMERCIAL FEED DEFINITIONS AND STANDARDS.

1. WHEAT BRAN consists of the coarse outer coating of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling. The standard minimum guaranty which should be met is: protein, not less than 14.5 percent; fat, not less than 3.5 percent; and crude fiber, not more than 10 percent.

2. STANDARD (TOTAL OR GRAY) WHEAT SHORTS (OR MIDDINGS) consists of the fine particles of the outer bran, the inner or "bee-wing" bran, germ, and the offal or fibrous material, obtained in the last reductions on middlings. The standard minimum guaranty which should be met is : protein, not less than 16 percent; fat, not less than 3.5 percent; and fiber, not more than 5.5 percent.

3. WHEAT BROWN (OR RED) SHORTS, as compared with standard shorts, consists mostly of fine particles of bran and

germ, and contains much less fibrous offal obtained from the "tail of the mill." The standard minimum guaranty which should be met is: protein, not less than 16 percent; fat, not less than 3.5 percent; and fiber, not more than 6.5 percent,

4. WHEAT WHITE SHORTS, as compared with standard shorts, consists of a smaller portion of the fine bran particles and germ and a much greater portion of the fibrous offal from the "tail of the mill." The standard minimum guaranty which should be met is: protein, not less than 14.5 percent; fat, not less than 3 percent; and fiber, not more than 3.5 percent.

5. WHEAT MIXED FEED consists of wheat bran and standard wheat shorts combined in the proportions obtained in the usual process of commercial milling. Feed sold as wheat mixed feed must consist of bran plus the standard shorts, or the total feed. It does not consist of bran plus brown shorts only. The standard minimum guaranty which should be met is : protein, not less than 16 percent; fat, not less than 3.5 percent; and fiber, not more than 8.5 percent. The name of each ingredient (for example, wheat bran and standard wheat shorts) should also be given on the label. (This feed has commonly been known as mill run or mill-run bran.)

If to any of the foregoing brands of feed there is added "screenings" or "scourings" as hereinafter 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 part of the name or brand, and shall be printed in the same size and face of type as the remainder of the name. For example, "WHEAT BRAN AND SCREENINGS," not "WHEAT BRAN and screenings."

6. SCREENINGS consist of the smaller imperfect grains, weed seeds, and other foreign materials having a feeding value, separated in cleaning the grain. (Sand, dirt or other substances without feeding value must be eliminated from screenings before they are added to any feed.)

7. SCOURINGS consist of such portions of the cuticle, hair, dust, smut and other materials as are separated from the grain in the usual commercial process of scouring.

8. CHOP consists wholly of ground, cut or chopped kernels of grain from which no portion has been abstracted for the

manufacture of other substances, and to which no other substance has been added. If it is sold under the name of any one cereal, it must be composed only of that cereal.

9. CORN CHOP consists wholly of ground, cut or chopped kernels of corn from which no portion has been abstracted for the manufacture of other substances, and to which no other substance has been added. The standard minimum guaranty which should be met is: protein, not less than 9 percent; fat, not less than 3.5 percent; and crude fiber, not more than 3.5 percent.

10. KAFIR CHOP consists of the entire grain removed from the head and chopped.

11. CORN BRAN consists of the outer coating of the corn kernel as produced in the usual process of commercial milling.

12. HOMINY MEAL (HOMINY FEED, OR HOMINY CHOP) is a mixture of the bran coating, the germ, and a part of the starchy portion of the corn kernel, obtained in the manufacture of hominy grits for human consumption.

13. ALFALFA MEAL consists of the entire alfalfa hay, ground, and shall not contain an admixture of ground alfalfa straw or other foreign materials.

14. LINSEED MEAL consists of the ground product obtained after extraction of part of the oil from ground flaxseed, screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes.

15. BLOOD MEAL is ground dried blood.

16. MEAT SCRAP AND MEAT MEAL consist of the ground residues from animal tissue exclusive of hoof and horn. If they contain any considerable amount of bone they must be designated meat and bone scrap, or meat and bone meal. If they bear a name descriptive of their kind, composition or origin, they must correspond thereto.

17. DIGESTER TANKAGE is the residue from animal tissue exclusive of hoof and horn, especially prepared for feeding purposes by tanking under live steam, drying under high heat, and suitable grinding. If it contains any considerable amount of bone it must be designated digester meat and bone tankage.

18. COTTONSEED CAKE is a product of cottonseed only. It is composed principally of the kernels and such portion of the hulls as is necessary in the manufacture of oil. It may be firm

in texture but must not be flinty. Nothing shall be recognized as cottonseed cake, however, that does not conform to the foregoing definition and that is not sweet in odor, reasonably bright in color, or does not contain at least 36 percent of protein.

19. COTTONSEED MEAL is cottonseed cake, finely ground but not necessarily bolted. It must conform in all other respects to the definition of cottonseed cake.

20. SUPERIOR COTTONSEED CAKE must be perfectly sound, friable in texture, sweet in odor, bright yellow, free from excess lint, and not burnt in cooking. It must contain not less than 43 percent of protein.

21. SUPERIOR COTTONSEED MEAL is superior cottonseed cake, finely ground, but not necessarily bolted.

22. CHOICE COTTONSEED CAKE must be perfectly sound, friable in texture, sweet in odor, bright yellow, free from excess lint, but not burnt in cooking. It must contain not less than 41 percent of protein.

23. CHOICE COTTONSEED MEAL is choice cottonseed cake finely ground, but not necessarily bolted.

24. PRIME COTTONSEED CAKE must be sound in quality, yellowish, not brown or red. It must be sweet in odor. It may be firm in texture but must not be flinty. It must be free from excess of lint and contain at least 38.6 percent of protein.

25. PRIME COTTONSEED MEAL is prime cottonseed cake, finely ground, but not necessarily bolted.

26. SOUND COTTONSEED CAKE must be sound in quality, of good color, not brown or red. It must be sweet in odor. It may be firm in texture but must not be flinty. It must be free from excess of lint and contain at least 36 percent of protein.

27. SOUND COTTONSEED MEAL is sound cottonseed cake finely ground, but not necessarily bolted.

TABLE I.
Standard minimum guarantees.

	Protein. Not less than—	Fat. Not less than—	Crude fiber Not more than—
	Percent.	Percent.	Percent.
Pure wheat bran	14.5	3.5	10.0
Wheat bran and screenings	14.5	3.5	10.0
Wheat bran and scourings	14.5	3.5	10.0
Standard wheat shorts	16.0	3.5	5.5
Standard wheat shorts and screenings . .	16.0	3.5	5.5
Wheat brown shorts	16.0	3.5	6.5
Wheat white shorts	14.5	3.0	3.5
Wheat white shorts and screenings	14.5	3.0	3.5
Pure wheat mixed feed	16.0	3.5	8.5
Wheat mixed feed and screenings	16.0	3.5	8.5
Wheat mixed feed and scourings	16.0	3.5	8.5
Corn chop	9.0	3.5	3.5

The above table does not show a standard analysis of the feeds therein mentioned, but the lowest analysis a feed may have to be classed as of fair quality.

TABLE II.
Complete analyses of representative samples of Kansas mill feeds,
spring of 1915.

	Mois- ture.	Ash.	Protein.	Fat.	Fiber.	Nitro- gen-free extract.
Wheat bran (11)	10.69	6.55	18.27	4.42	10.35	50.67
Wheat bran and screenings (11)	11.44	6.09	17.40	4.34	10.06	50.48
Wheat bran and corn bran and screen- ings (1)	10.79	6.03	16.85	4.98	9.28	52.07
Wheat shorts (13)	10.25	3.90	18.97	4.85	5.85	56.39
Wheat shorts and screenings (4)	10.19	3.64	18.56	4.41	5.33	56.62
Wheat mixed feed (5)	9.42	5.50	18.28	4.52	8.45	53.85
Wheat mixed feed and screenings (7)	11.80	5.57	18.17	4.61	8.07	52.78
Wheat mixed feed, corn bran, and screenings (1)	11.15	5.33	16.54	4.34	7.75	54.89
Corn chop (9)	12.16	1.46	10.29	3.92	2.13	70.16
Corn bran (1)	13.04	1.76	11.14	4.84	4.19	65.03
Corn chop and corn bran (3)	11.85	1.30	10.07	3.92	2.80	70.06
Corn chop and corn shorts (1)	13.03	1.14	10.27	3.68	2.33	69.55
Brown shorts (2)	11.22	4.53	18.52	4.82	7.73	53.19
White shorts (4)	10.28	2.44	17.53	3.36	3.33	63.03
Hominy (1)	9.53	2.37	11.45	7.00	5.55	64.10

TABLE III.

The analysis of feeds by the feed-control office, fiscal year 1915-1916.

NAME OF FEED.	Number of samples.	Protein percentage.			Fat percentage.			Fiber percentage.		
		Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.
Corn chop.	150	10.09	13.25	8.03	3.87	6.80	2.40	2.00	3.90	1.41
Corn chop and corn bran	7	9.96	11.32	9.21	3.70	4.70	3.18	2.27	2.48	1.95
Corn bran.	9	10.28	12.94	7.02	5.12	8.63	2.28	7.89	13.75	2.02
Corn shorts.	1	13.69			5.75			3.35		
Corn and cob chop	1	8.07			3.35			4.29		
Corn germ.	3	16.54	17.29	16.03	21.32	22.49	19.95	5.63	5.85	5.44
Corn meal.	6	11.18	11.71	10.35	3.40	4.45	2.34	1.62	2.51	1.12
Dairy meat.	1	12.81			7.97			4.34		
Hominy feed.	7	12.54	13.43	11.58	8.00	9.58	6.37	5.22	5.93	4.13
Hominy hearts.	1	13.60			9.69			3.26		
Corn gluten feed.	1	30.14			2.91			9.42		
Standard shorts.	64	18.15	21.72	13.43	4.10	5.51	2.10	4.84	7.46	1.78
Standard shorts and screenings	23	18.35	20.27	15.31	4.24	4.93	2.94	5.45	6.92	3.14
White shorts.	20	17.75	20.13	15.88	3.54	4.88	2.26	3.67	5.45	1.31
White shorts and screenings	2	17.79	18.60	16.98	3.68	4.30	3.06	4.65	6.44	2.87
Red dog.	1	17.20			3.20			2.80		
Low grade.	4	16.31	17.58	15.36	2.06	2.86	1.74	0.72	1.55	0.36
Brown shorts.	5	18.75	19.33	17.72	4.53	4.86	4.20	4.73	5.47	3.98
Brown shorts and screenings	3	18.51	18.78	18.16	4.29	4.52	4.06	6.80	7.94	5.89
Bran.	28	17.30	20.71	15.49	3.98	4.59	3.30	9.69	11.91	6.68
Bran and screenings.	54	17.43	19.48	15.53	3.95	4.44	3.06	9.88	12.56	6.93
Bran and scourings.	7	17.80	18.95	16.58	4.28	5.09	3.87	9.35	10.47	8.72
Wheat and corn bran	1	18.52			4.43			7.27		
Wheat bran, corn bran, and screenings	4	16.71	17.55	15.88	3.66	4.09	3.30	9.90	11.05	8.30
Wheat mixed feed.	13	18.18	19.39	17.28	4.12	4.76	3.56	8.50	9.50	7.40
Wheat mixed feed and screenings	15	17.15	19.26	16.50	4.05	4.28	3.63	8.00	9.42	6.85
Cottonseed cake	39	40.25	43.86	33.83	6.75	9.33	5.29	11.33	15.84	7.07
Cottonseed meal.	28	39.28	44.51	35.56	7.27	9.90	6.10	12.34	16.21	7.55
Cold pressed cottonseed	6	26.07	26.76	25.62	7.25	8.37	4.10	22.81	24.33	22.09
Cottonseed feed.	2	22.30	22.33	22.23	3.91	4.63	3.20	23.22	25.54	22.90
Mixed feeds.	15	13.36	15.36	11.89	4.13	4.78	3.30	5.72	8.77	3.50
Molasses feeds.	9	13.98	17.72	11.62	3.15	6.71	0.85	11.12	21.62	4.17
Alfalfa meal.	6	16.28	16.78	15.27	1.62	2.02	1.41	31.21	34.16	28.14
Linseed meal.	3	33.14	34.44	31.94	6.75	7.83	5.78	9.71	9.95	9.54
Oat meal.	4	14.39	16.41	11.23	6.49	8.05	6.09	1.64	2.03	1.31
Kafir chop.	20	10.11	13.16	9.04	2.93	4.15	2.80	1.33	2.46	1.50
Kafir head chop	3	8.77	9.48	7.55	2.60	2.82	2.27	7.61	11.58	4.81

Feed Registration Under Kansas Law. 13

TABLE III—CONCLUDED.

NAME OF FEED.	Number of samples.	Protein percentage.			Fat percentage.			Fiber percentage.		
		Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.
Barley and oats chop	1	11.54	.....	.....	2.65	.....	.....	8.38	.....	.....
Rye chop	1	13.57	.....	.....	1.59	.....	.....	2.20	.....	.....
Barley chop	1	10.44	.....	.....	1.69	.....	.....	6.04	.....	.....
Milo chop	1	10.75	.....	.....	3.08	.....	.....	2.13	.....	.....
Cane seed screenings	2	8.32	9.96	8.69	2.89	3.12	2.66	1.91	1.93	1.89
Scratch feeds	9	11.85	13.12	10.88	3.46	4.90	2.84	2.87	3.83	2.25
Chick feeds	3	11.65	12.55	9.83	3.32	3.87	2.32	2.16	3.55	1.61
Poultry mash	3	16.39	18.66	10.18	3.82	4.11	3.59	5.70	9.01	2.84
Milk mash (wet)	1	6.65	.....	.....	7.09	.....	.....	0.82	Moisture	61.5)
Condensed buttermilk	2	12.30	16.62	7.98	.....	.....	.....	.....	.....	.....
Dry buttermilk	1	70.68	.....	.....	3.05	.....	.....	0.26	.....	.....
Swill (vinegar factory)	1	3.02	.....	.....	0.87	.....	.....	2.08	(Moisture	85.80)
Digester tankage	6	54.54	64.06	48.34	7.46	13.19	6.61	1.99	3.23	1.01
Meat scrap	1	59.50	.....	.....	14.93	.....	.....	2.00	.....	.....
Meat meal	1	68.98	.....	.....	6.54	.....	.....	2.98	.....	.....

TABLE IV.

Summary of analyses of inspectors' samples, fiscal year 1915-1916.

Number of inspection samples of feeding stuffs analyzed..... 528
 Number of feeds equal to or above guaranty..... 358
 Number of feeds not up to guaranty in one or more constituents..... 170

FEEDS.	Number not up to guaranty.	Number deficient in protein.	Number deficient in fat.	Number excessive in fiber.
Corn chop.....	31	26	7	2
Corn chop and corn bran.....	1	1		
Corn bran.....	1	1		
Kafir chop.....	2	1	1	
Kafir head chop.....	1	1	1	1
Barley chop.....	1			1
Bran (including bran and screenings).....	89	1	2	36
Shorts (including shorts and screenings).....	34		2	32
White Shorts (including white shorts and screenings).....	8		3	7
Brown shorts (including brown shorts and screenings).....	2			2
Wheat mixed feed (including wheat mixed feed and screenings).....	12			12
Red dog.....	1			1
Rye middlings.....	1			1
Mixed feeds.....	5		1	4
Cottonseed meal and cake.....	17	12	7	18
Cottonseed feed.....	1			1
Linseed meal.....	3	1	1	2
Hominy feed.....	1			1
Dried beet pulp.....	1		1	1
Alfalfa meal.....	2			2
Poultry feeds.....	4			4
Tankage.....	2	1	1	
Total.....	170	45	27	123

TABLE V.

The analysis of feeds by the feed-control office, fiscal year 1916-1917.

In considering these results of the analysis of inspectors' samples of feeding stuffs, it should be borne in mind that in a great many cases the sample was taken and analyzed because the material did not appear to be of standard quality.

NAME OF FEED.	Number of samples.	Protein percentage.			Fat percentage.			Fiber percentage.		
		Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.
Corn chop	143	10.81	12.02	8.60	3.86	5.17	2.31	2.21	2.95	1.16
Corn chop and corn bran	1	14.89			4.14			2.00		
Corn bran	17	10.88	13.60	6.67	6.96	9.75	3.76	2.77	16.25	4.36
Corn gluten feed	1	25.97			1.50			7.85		
Hominy feed	2	10.53	11.32	9.74	7.56	8.80	6.32	5.71	6.19	5.24
Corn and cob chop	1	10.85			3.37			5.90		
Barley chop	5	12.71	14.67	11.76	2.14	2.88	1.82	7.37	11.00	5.76
Barley and oats	1	13.20			3.26			8.15		
Shorts	44	17.13	19.92	14.83	4.13	5.33	2.52	5.17	10.06	2.15
Shorts and screenings	15	17.60	19.03	16.67	4.19	4.89	3.23	6.49	9.65	4.33
White shorts	3	17.12	17.46	16.85	4.05	4.64	3.97	3.69	4.76	1.90
White shorts and screenings	4	19.24	21.80	17.11	4.77	5.55	3.79	5.39	6.40	5.06
Brown shorts	1	18.60	19.53	17.11	5.11	5.86	4.55	6.82	8.02	6.15
Bran	23	16.74	19.66	10.27	4.31	6.70	3.47	10.03	11.95	8.05
Bran and screenings	32	17.42	20.30	14.92	4.26	4.65	3.25	10.64	12.05	6.75
Bran and scourings	9	16.88	17.94	15.09	4.43	4.84	4.05	10.28	11.73	9.53
Bran and corn bran	2	16.86	16.67	16.06	4.15	4.44	5.87	9.96	11.27	8.65
Bran, screenings and corn bran	1	15.75			4.11			10.79		
Wheat mixed feed	4	16.58	17.88	15.97	4.33	4.53	3.96	8.35	10.39	6.90
Wheat mixed feed and screenings	4	17.03	17.86	15.97	4.21	4.74	3.87	9.07	10.00	7.86
Alfalfa meal	6	13.76	15.27	12.11	1.77	2.08	1.46	32.98	35.23	30.35
Croutd Alfalfa straw	1	11.41			2.16			28.65		
Cottonseed meal	11	38.87	42.65	34.75	7.35	9.76	5.80	13.88	16.69	10.96
Cottonseed cake	10	41.21	46.34	35.81	6.44	7.99	5.68	12.35	15.24	8.30
Cold pressed cottonseed	3	29.25	30.41	27.29	5.80	6.49	4.95	23.46	25.17	21.35
Cottonseed feed	3	16.29	22.64	10.75	3.59	4.55	1.93	27.93	34.01	24.50
Linseed meal	3	36.21	37.29	34.40	5.79	6.15	5.22	9.09	9.87	8.31
Dried beet pulp	1	9.30			0.48			20.27		
Sugar beet meal	1	11.38			0.57			7.78		
Meat scrap	1	32.90			14.02			1.57		
Digester tankage	1	65.30			6.37			1.17		
Meat meal	1	65.28			6.74			2.90		
Mixed feed	20	12.46	19.95	10.97	3.02	4.69	0.71	11.95	25.87	4.57
Chick feed	22	12.49	20.25	10.75	3.68	5.51	2.24	4.62	8.18	2.40
Pen feed	22	12.47	18.95	9.08	3.24	4.04	2.51	4.19	7.38	1.50

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TABLE VI.

Summary of the analysis of inspectors' samples, fiscal year 1916-1917.

Number of inspectors' samples analyzed 421
 Number of different kinds of feed analyzed 35
 Number of feeds equal to or above guarantee 207
 Number of feeds not up to guarantee in one or more constituents 155

FEEDS.	Number of samples analyzed.	Number up to guarantee.	Number not up to guarantee.	Number without guarantee.	Number deficient in protein.	Number deficient in fat.	Number excessive in fiber.
Corn chop	143	110	13	20	3	10	1
Corn chop and corn bran	1	1					
Corn bran	17	7	5	5	2	2	4
Corn gluten feed	1	1					
Hominy feed	2		2			1	1
Corn and cob chop	1			1			
Barley chop	5	1	4		1		3
Barley and Oats	1		1				
Shorts	44	22	20	2	7	10	11
Shorts and screenings	15	5	7	3		2	6
White shorts	3		3		1	1	2
White shorts and screenings	4		4				4
Brown shorts	3	2	1				1
Bran	23	9	9	5	2	3	6
Bran and screenings	32	7	24	1		1	23
Bran and scourings	9	3	6				6
Bran and corn bran	2	1	1				1
Wheat mixed feed	4	3	1				1
Wheat mixed feed and screenings	4	1	3		2		3
Alfalfa meal	6	3	2	1	1	1	1
Ground alfalfa straw	1	1					
Cottonseed meal	11		6	5	4	2	6
Cottonseed cake	10	1	6	3	2	3	6
Cold pressed cottonseed	3	1	1	1		1	
Cottonseed feed	3	1	1	1		1	1
Linseed meal	3	2	1				1
Dried beet pulp	1		1			1	1
Sugar beet meal	1	1					
Meat scrap	1	1					
Digester tankage	1	1					
Meat meal	1		1			1	
Mixed feed	20	7	10	3	5	8	7
Cnck feed	22	6	13	3		6	9
Hen feed	22	7	10	5	1	5	9

TABLE VII.

Feeds registered up to September 1, 1917, for fiscal year 1917-1918.

CORN CHOP.

Composed of ground, cut or chopped kernels of corn from which no portion has been abstracted for the manufacture of other substances and to which no other substance has been added.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
The L. C. Adam Mercantile Co., Cedarvale, Kan.	9.00	4.00	3.50
Asher Adams, Osage City, Kan.	9.00	3.50	3.50
Agenda Milling Co., Agenda, Kan.	9.00	3.50	3.50
A. Aitken, Macksville, Kan.	9.00	3.50	3.50
A. Aitken, St. John, Kan.	9.00	3.50	3.50
Alcock's Pioneer Mill, Chanute, Kan.	9.00	3.50	3.50
Alfalfa Milling Co., Emporia, Kan.	9.00	3.50	3.50
Allin Grain Co., Coffeyville, Kan.	9.00	3.50	3.50
Alton Roller Mills, Alton, Kan.	9.00	3.50	3.50
J. L. Anderson, Burden, Kan.	9.00	3.50	3.50
J. A. Armour, Bently, Kan.	10.00	4.00	3.00
Ashby & Sons, Leavenworth, Kan.	9.00	3.50	3.50
Athol Cooperative Grain Co., Athol, Kan.	9.00	3.50	3.50
Aunt Jemima Mills Co., St. Joseph, Mo.	9.00	3.50	3.50
L. G. Ayre, Talmage, Kan.	9.00	3.50	3.50
John C. Bannerman, Topeka, Kan.	9.00	3.50	3.50
Philip Bauer, Burdett, Kan.	9.00	3.50	3.50
L. A. Bauman, Wathena, Kan.	9.00	3.50	3.50
Bauman Grain Co., Neodesha, Kan.	9.40	3.50	3.50
Barton County Flour Mills Co., Great Bend, Kan.	9.00	3.50	3.50
Baxter Mill & Elevator Co., Baxter Springs, Kan.	9.00	3.00	6.00
Bayard Grain Co., Bayard, Kan.	9.00	3.50	3.50
T. A. Beck, Topeka, Kan.	9.00	3.50	3.50
J. D. Beckner, Conway Springs, Kan.	9.00	3.50	3.50
Beloit Milling Co., Beloit, Kan.	9.00	3.50	3.50
Bernard Brothers Mill, Holton, Kan.	9.00	3.50	3.50
J. B. Billard, North Topeka, Kan.	9.00	3.50	3.50
John M. Black, Lebo, Kan.	9.40	3.50	3.50
Black Brothers, Beatrice, Neb.	9.25	3.50	3.50
Blacker Grain Co., Kansas City, Kan.	9.00	3.50	3.50
The Blair Milling Co., Atchison, Kan.	9.00	3.50	3.50
The Blaker Milling Co., Pleasanton, Kan.	8.00	3.50	5.00

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
C. F. Blauer, Oneida, Kan	8.62	2.76	3.80
Blue Rapids Milling & Elevator Co., Blue Rapids, Kan	10.00	3.50	3.72
Boblits Grain Co., Cedar Point, Kan.	9.00	3.50	3.50
J. W. Bogart, Fall River, Kan	9.00	3.50	3.50
Border Queen Milling Co., Caldwell, Kan	9.00	3.50	3.50
J. H. Bortzfeld, Moran, Kan	9.00	3.50	3.50
Bossemeyer Brothers, Concordia, Kan	9.00	3.50	3.50
Bossemeyer Brothers, Courtland, Kan	9.00	3.50	3.50
Bossemeyer Brothers, Huscher, Kan	9.00	3.50	3.50
Bossemeyer Brothers, Kackley, Kan	9.00	3.50	3.50
Bossemeyer Brothers, Superior, Neb	9.00	3.50	3.50
Bossemeyer Brothers, Webber, Kan	9.00	3.50	3.50
Bottiger & Son, Highland, Kan	9.20	2.30	2.10
Geo. M. Bowen, Independence, Kan	9.00	3.50	3.50
Bowen Milling Co., Independence, Kan	9.00	3.50	3.50
Bowen Milling Co., Elk City, Kan	9.00	3.50	3.50
W. Bower & Son, Pomona, Kan	10.00	3.50	3.00
Bowman Brothers, Logan, Kan	9.50	3.25	4.50
M. V. Bradley, Feed Mill, Plessanton, Kan	9.00	3.00	3.50
A. M. Brandt, Severy Kan	9.00	2.00	5.00
Brown County Seed House, Hiawatha, Kan	9.40	3.50	3.10
Emil Bruner, Hope, Kan	9.00	3.50	3.50
G. L. Brunold, Cullison, Kan	9.00	3.50	3.50
W. T. Buck, Vliets, Kan	9.20	2.23	3.75
P. J. Buehler, Moundridge, Kan	9.00	3.50	3.50
Jos. Bulmer & Son, Michigan Valley, Kan	9.00	3.50	3.50
Burlingame Grain & Elevator Co., Burlingame, Kan	10.00	3.10	3.70
Burns & Winter, Hoyt, Kan	9.00	3.50	4.25
F. J. Burghart, Leanna, Kan	9.00	3.50	3.50
Burr Oak Mill, Elevator & Ice Co., Burr Oak, Kan	9.00	3.50	3.50
W. J. Busch, Lawrence, Kan	9.20	3.50	3.50
Bushton Mill & Elevator Co., Bushton, Kan	9.00	3.50	3.50
M. L. Butcher, Kansas City, Kan	9.00	3.50	3.50
Byrnes & Co., St. Marys, Kan	8.00	3.00	3.50

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Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Byrnes & Feighny, Emmett, Kan.....	9.00	3.25	4.25
W. H. Callaway, Greenleaf, Kan.....	10.09	3.87	2.92
Canton Milling Co., Canton, Kan.....	9.00	3.50	3.50
R. D. Carpenter & Co., Hartford, Kan.....	9.00	3.50	3.50
Casebier Elevator Co., McLouth, Kan.....	9.00	3.10	3.70
Cawker City Roller Mills, Cawker City, Kan.....	9.00	3.50	3.50
L. M. Cayton, Liberal, Kan.....	9.00	3.50	3.50
Central Kansas Milling Co., Lyons, Kan.....	9.00	3.50	3.50
Chanute Grain Co., Chanute, Kan.....	9.00	3.50	3.50
Chanute Milling Co., Chanute, Kan.....	9.54	3.99	2.58
Chapman Milling Co., Chapman, Kan.....	9.00	3.50	3.50
Chautauqua Grist Mill, Chautauqua, Kan.....	9.00	3.50	3.50
W. M. Chelf & Sons, Leoti, Kan.....	9.00	3.50	3.50
Childs Grain Co., Garnett, Kan.....	9.00	3.50	3.50
The Cimarron Cooperative Equity Exchange, Cimarron, Kan..	9.00	3.50	3.50
City Feed Mill, Atlanta, Kan.....	9.00	3.50	3.50
I. E. Clark, Walnut, Kan.....	9.00	3.50	3.50
Clark Brothers, Troy, Kan.....	9.00	3.50	3.50
Clyde Milling & Elevator Co., Clyde, Kan.....	9.00	3.50	3.50
D. O. Coe, Topeka, Kan.....	9.00	3.00	5.00
Coffey Brothers, New Salem, Kan.....	9.00	3.50	3.50
Colburn Brothers, McPherson, Kan.....	9.00	3.50	3.50
Coleman & Artman, Denison, Kan.....	9.00	3.50	3.50
Concordia Milling Co., Concordia, Kan.....	9.00	3.50	3.50
J. C. Cooper, Lincoln, Kan.....	9.00	3.50	3.50
Corning Elevator Co., Corning, Kan.....	9.00	3.50	3.50
Cottonwood Valley Milling Co., Marion, Kan.....	9.00	3.50	3.50
Council Grove Grain Co., Council Grove, Kan.....	9.00	3.50	3.50
Crawford County Farmers' Union Cooperative Association, Girard, Kan.....	9.00	3.50	3.50
Roy A. Crow, Bennington, Kan.....	9.00	3.50	3.50
William Dalton's Sons, St. George, Kan.....	10.00	3.58	3.72
J. F. Dannecker, Bucklin, Kan.....	9.78	3.91	3.00
W. H. Dean, Nickerson, Kan.....	9.00	3.00	4.00
W. O. Decker & Co., Garnett, Kan.....	9.00	3.50	3.50

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Delphos Milling Co., Delphos, Kan.	9.00	4.00	4.00
Denton, J. F., South Mound, Kan.	10.50	3.50	5.00
Derby Grain Co., Alma, Kan.	9.00	3.50	3.50
Dickinson Brothers Grain & Hay Co., Humboldt, Kan.	9.00	3.50	3.50
Dockum & Whitaker, Garden City, Kan.	8.50	3.50	4.50
Dodge City Cooperative Exchange, Dodge City, Kan.	9.00	3.50	3.50
Dodge City Mill & Elevator Co., Dodge City, Kan.	9.00	3.50	3.50
Dougan & Son, Belvue, Kan.	9.00	3.50	3.50
J. H. Dougan & Son, Perry, Kan.	9.00	3.50	3.50
J. H. Dougan & Son, Harveyville, Kan.	9.00	3.50	3.50
Douglas County Farmers' Cooperative Association, Baldwin, Kan.	9.00	3.50	3.50
Phil. E. Drought Hay Co., Kansas City, Kan.	9.00	3.50	3.50
Frank J. Dumond, Yates Center, Kan.	9.00	3.50	3.50
W. J. Dyer, Elevator, La Cygne, Kan.	9.00	3.50	3.50
H. Eichenlaub, Seneca, Kan.	9.00	3.50	3.50
Elk City Feed Mill, Elk City, Kan.	9.30	3.50	3.20
C. M. Elliott, Concordia, Kan.	9.00	3.50	3.50
Ellsworth Mill & Elevator Co., Ellsworth, Kan.	9.00	3.50	3.50
Ellsworth Mill & Elevator Co., Frederick, Kan.	9.50	3.50	3.50
Ellsworth Mill & Elevator Co., Bunker Hill, Kan.	9.00	3.50	3.50
English Brothers Milling Co., Bonner Springs, Kan.	9.00	3.50	3.50
Enns Milling Co., Inman, Kan.	9.00	3.50	3.30
Eudora Mills, Eudora, Kan.	10.00	6.00	13.00
Excello Feed Milling Co., St. Joseph, Mo.	9.00	4.00	3.00
Charles Faidley, Alta Vista, Kan.	9.00	3.50	3.50
Farmers' and Merchants' Corn Mill, Coffeyville, Kan.	9.00	3.50	3.50
Farmers' Cooperative Elevator Co., Abilene, Kan.	10.00	3.00	3.00
Farmers' Cooperative Elevator Co., Rossville, Kan.	9.00	3.50	3.50
Farmers' Elevator Company, Dorrance, Kan.	9.00	3.50	2.50
Farmers' Elevator Company, Ozawkie, Kan.	9.00	3.50	3.50
Farmers' Elevator and Alfalfa Milling Co., Minneapolis, Kan.	9.00	3.50	3.50
Farmers' Grain and Mercantile Co., Penalosa, Kan.			
Farmers' Grain, Elevator & Supply Co., Muscotah, Kan.	8.42	3.43	3.50
Farmers' Cooperative Mercantile Co., Oak Hill, Kan.	9.00	3.50	3.50

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Farmers' Grain, Fuel & Live Stock Co., Pawnee Rock, Kan.	9.20	3.50	3.50
Farmers' Grain & Supply Co., Burdett, Kan.	9.00	1.75	6.50
Farmers' Grain & Supply Co., Greensburg, Kan.	9.00	3.50	3.50
Farmers' Grain & Supply Co., Stafford, Kan.	9.00	3.50	3.50
Farmers' Grain & Supply Co., Spearville, Kan.	9.00	3.50	3.50
Farmers' Grain & Live Stock Co., Blue Rapids, Kan.	9.00	3.50	3.50
Farmers' Grain, Fuel & Live Stock Co., Alden, Kan.	9.00	3.50	3.50
Farmers' Mill & Elevator Co., Concordia, Kan.	9.00	3.50	3.50
Farmers' Union Business Association, Wetmore, Kan.	9.00	3.50	3.50
Farmers' Union Cooperative Association, Erie, Kan.	9.00	2.00	4.00
Farmers' Union Cooperative Association, Wilsey, Kan.	9.00	3.50	3.50
Farmers' Union Elevator Co., Soldier, Kan.	9.00	3.50	3.50
Farmers' Union Grain & Supply Co., Courtland, Kan.	9.00	3.50	3.50
Farmers' Mercantile Association, Effingham, Kan.	9.00	3.50	3.50
Farmers' Union Elevator Co., Herington, Kan.	9.00	3.50	3.50
Federated Mills Co., Morganville, Kan.	10.00	3.90	3.90
D. H. Ferguson & Co., Seneca, Kan.	10.00	3.50	3.50
Ferguson & Spence, Hanover, Kan.	9.00	3.50	3.50
Geo. T. Fielding's Sons, Manhattan, Kan.	9.00	3.50	3.50
Firestone & Robinson, Wakarusa, Kan.	9.50	3.25	4.25
W. H. Forsyth, Cherryvale, Kan.	9.00	3.50	3.50
B. F. Foster, Sylvan Grove, Kan.	9.00	3.50	3.50
L. L. Fuoss, Turner, Kan.	9.00	3.50	3.50
Gano Grain Co., Frankfort, Kan.	9.50	3.50	3.50
Garfield Cooperative Co., Garfield, Kan.	9.00	3.50	3.50
C. A. Geiger Grain Co., Belvue, Kan.	9.50	3.00	4.00
F. H. Geiger, Everest, Kan.	9.00	3.50	3.50
Germantown Grain & Supply Co., Germantown, Kan.	9.00	3.50	3.50
Gibbon & Reid, Burlington, Kan.	10.00	5.00	3.50
Gifford Brothers, Jamestown, Kan.	9.20	2.50	4.40
Ed Gilman, Lebo, Kan.	9.20	3.50	3.50
Gingress Elevator Co., Sedgwick, Kan.	9.00	3.50	3.50
Glasco Milling Co., Glasco, Kan.	9.00	3.50	3.50
Goodland Equity Exchange, Goodland, Kan.	9.50	3.50	3.50

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Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
C. F. Goodman, Lenora, Kan.....	9.09	3.59	3.56
Good Will Grain Co., Longford, Kan.....	9.00	3.50	3.50
Gordon Grain Co., De Soto, Kan.....	9.00	3.50	3.50
Gorvin Flour & Grain Co., Wichita, Kan.....	9.00	3.50	3.50
J. A. Graham, Ransom, Kan.....	9.20	2.30	4.40
W. T. Graham, Horton, Kan.....	9.00	3.50	3.50
Granger's Elevator & Supply Co., Elk City, Kan.....	9.00	3.50	3.50
Great Bend Seed & Produce Co., Great Bend, Kan.....	9.00	3.50	3.50
Greeley Milling Co., Greeley, Kan.....	9.00	3.50	3.50
Grenola Mill & Elevator Co., Grenola, Kan.....	9.00	3.50	3.50
Groening Brothers, Lehigh, Kan.....	9.00	3.50	3.50
W. D. Gwin, Lawrence, Kan.....	9.40	3.50	3.50
Gypsum City Mill & Elevator Co., Gypsum, Kan.....	9.00	3.50	3.50
Halstead Milling & Elevator Co., Burrton, Kan.....	9.00	3.50	3.50
Halstead Milling & Elevator Co., Halstead, Kan.....	9.00	3.50	3.50
F. H. Hamilton, Anthony, Kan.....	9.00	3.50	3.50
J. G. Hamilton, Goodland, Kan.....	10.00	3.50	3.50
Hampton Brothers Milling Co., Fredonia, Kan.....	9.00	3.50	3.50
Hampton Brothers Milling Co., Lafontaine, Kan.....	9.00	3.50	3.50
Geo. B. Harper, Silver Lake, Kan.....	9.00	3.50	3.50
Harrington & Cummings, Blaine, Kan.....	9.00	3.50	2.50
Thomas Hatfield, Valley Falls, Kan.....	9.00	3.50	3.50
Hays City Milling & Elevator Co., Hays, Kan.....	9.00	3.50	3.50
Hayes Seed House, Topeka, Kan.....	9.00	3.50	3.50
J. A. Healzer, Alexander, Kan.....	9.00	3.50	3.50
Herkimer Cooperative Business Association, Herkimer, Kan.....	9.00	3.50	3.50
Hess Feed Store, Hutchinson, Kan.....	9.00	3.50	3.50
W. G. Higby, Whiting, Kan.....	9.00	3.50	3.50
J. C. Higdon, South Haven, Kan.....	9.00	3.50	3.50
Hillsboro Roller Mills, Hillsboro, Kan.....	9.00	3.50	3.00
Hodgson Elevator Co., Eureka, Kan.....	9.00	3.50	3.50
Hoffman Mills, Enterprise, Kan.....	9.00	3.50	3.50
Home Trading Co., Elgin, Kan.....	9.00	3.50	3.50
Howard Grain Co., Mount Hope, Kan.....	9.00	3.50	3.50

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Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
W. F. Hunter, Springhill, Kan.	9.00	3.50	3.50
Hunter Milling Co., Wellington, Kan.	9.00	3.50	3.50
J. D. Infield, Wellington, Kan.	9.10	2.90	3.60
F. Jackson, Stockton, Kan.	9.00	3.50	3.50
J. W. & C. R. Jackson, Kirwin, Kan.	9.00	3.75	3.50
Janousek & Hloucal, Ellsworth, Kan.	9.10	3.10	3.30
Jewell County Cooperative Association, Formoso, Kan.	9.00	3.50	3.50
Jewell County Cooperative Association, Jewell City, Kan.	9.00	3.50	3.50
Jewell Milling Co., Jewell, Kan.	9.40	3.10	9.40
Johnson & Son, Erie, Kan.	9.00	3.50	3.50
Wm. Johnson, Sedan, Kan.	16.30	3.00	5.80
Johnson Grain Co., Norton, Kan.	9.60	3.30	2.20
Jim Johnston, Liberal, Kan.	9.00	3.50	3.50
Jones Milling Co., Wichita, Kan.	9.00	4.00	3.50
Joplin Hay Co., Joplin, Mo.	9.75	3.40	3.60
P. H. Jorgenson, Belleville, Kan.	9.00	3.50	3.50
Kansas Grain Co., Hutchinson, Kan.	9.00	3.50	3.00
Kansas Milling Co., Wichita, Kan.	9.00	3.50	3.50
M. A. Kelley, Leavenworth, Kan.	9.20	3.00	3.00
W. H. Kelly, Edgerton, Kan.	9.00	3.50	3.50
Kelso Grain Co., Cherokee, Kan.	9.54	3.99	3.50
Kelso Grain Co., West Mineral, Kan.	9.54	3.99	3.50
Kemper-Fair Milling Co., Tonganoxie, Kan.	7.40	3.40	3.25
S. B. Kennedy & Son, Fort Scott, Kan.	9.00	3.50	3.50
Kimball Milling Co., Rosedale, Kan.	9.00	3.50	3.50
Kiowa Milling Co., Kiowa, Kan.	9.00	3.99	2.58
J. E. Kirk, Protection, Kan.	9.00	3.50	3.50
W. D. Konantz, Arcadia, Kan.	9.00	3.50	3.50
J. J. Kuhlman, Bonita, Kan.	9.00	3.50	3.50
B. W. Kyner, Wilson, Kan.	9.20	3.50	3.50
Labette County Farmers' Cooperative Mercantile Union, Parsons, Kan.	8.50	3.50	3.00
Lakin Feed, Mill & Elevator Co., Lakin, Kan.	9.00	3.00	4.00
Land Milling Co., Neodesha, Kan.	9.00	3.50	3.50
Larned Feed Mill, Larned, Kan.	9.00	3.50	3.50

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Latto & Robinson, Sylvan Grove, Kan	10.00	3.50	3.50
F. A. Layton, Allen, Kan	9.00	3.50	3.50
Lebanon Mill & Elevator Co., Lebanon, Kan	8.99	3.53	3.00
Lenexa Grain Co., Lenexa, Kan	9.00	3.50	3.50
Liberal Feed Yard, Liberal, Kan	9.00	3.50	3.50
J. C. Lilley & Co., Burns, Kan	9.00	3.50	3.50
Lincoln Roller Mills, Lincoln, Kan	9.00	3.50	3.50
H. A. Lindenmeyer, Russell, Kan	9.00	3.50	3.50
A. H. Ling, Jetmore, Kan	9.00	3.50	3.50
Little River Roller Mills, Little River, Kan	9.50	3.60	3.50
Logan Farmers' Union Cooperative Association, Speed, Kan	8.90	3.10	4.40
Lord Milling Co., Wamego, Kan	9.50	4.00	3.50
Lost Springs Elevator Co., Lost Springs, Kan	9.00	3.50	3.50
Louisburg Elevator Co., Louisburg, Kan	9.50	3.50	3.50
Loveland Milling Co., Wichita, Kan	9.00	3.50	3.50
Lueck-Johnson Grain Co., Netawaka, Kan	9.00	3.50	3.50
Lukens Milling Co., Atchison, Kan	9.00	3.50	3.50
Lyons Milling Co., Lyons, Kan	9.25	3.75	2.50
McAller's Mill & Elevator, Parsons, Kan	9.00	3.50	3.50
R. C. McKinney, Iola, Kan	9.00	3.50	3.50
McKinney & Barkley, Howard, Kan	9.00	3.50	4.00
A. S. Mahan, Scandia, Kan	9.00	3.50	3.50
Malone & Wenzel, Herndon, Kan	9.50	3.50	3.50
Mankato Flour & Feed Store, Mankato, Kan	9.00	3.50	3.50
J. J. Mannion, Augusta, Kan	10.10	3.60	3.70
Mapleton Mill, Mapleton, Kan	9.00	3.50	3.50
Masquelier & Salvini, Arma, Kan	9.00	3.50	3.50
W. B. Maxwell & Sons, Kansas City, Kan	9.00	3.50	3.50
Mead Grain Co., Fort Scott, Kan	9.00	3.50	3.50
M. S. Mellor, Almena, Kan	9.50	3.50	3.50
Melvorn Grain Co., Melvorn, Kan	9.00	3.50	3.50
Meriden Elevator Co., Meriden, Kan	8.35	3.50	3.50
Missouri Pacific Elevator, Arkansas City, Kan	8.00	2.00	5.00
G. W. Mitchell, Sharon, Kan	9.00	3.50	3.50

Feeds registered up to September 1, 1917.
 CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
L. C. Mitchell, Cawker City, Kan	9.00	3.50	3.50
Moffet & Co., Peabody, Kan	9.00	3.50	3.50
Monarch Milling Co., Hutchinson, Kan	9.00	3.50	3.50
Moran Grain Co., Moran, Kan	9.00	3.50	3.50
Morrison Grain Co., Glasco, Kan	9.00	3.50	3.50
Moss Grain Co., Kansas City, Kan	9.00	3.50	3.50
Moundridge Milling Co., Moundridge, Kan	9.00	3.00	3.00
Nelson Grain Co., Kansas City, Mo	9.00	3.50	3.50
Nesmith & Kendall, Wilson, Kan	9.00	3.50	3.50
New Era Milling Co., Arkansas City, Kan	9.00	3.50	3.50
Newton Mill & Elevator Co., Iola, Kan	9.20	3.00	3.50
Newton Roller Feed Mills, Newton, Kan	9.00	3.50	3.50
J. H. Nichols Grain, Coal & Feed Co., Kiowa, Kan	9.40	3.10	3.10
G. W. Nichols, Goodrich, Kan	9.00	3.05	3.05
H. Niemoller & Sons, Wakefield, Kan	9.00	3.05	3.05
Noble Grain Co., Bronson, Kan	9.00	3.50	3.50
A. D. Noel, Belle Plaine, Kan	9.00	3.50	5.00
Oberlin Roller Mills, Oberlin, Kan	9.00	3.50	3.50
Ochs Grain Co., Holsington, Kan	9.00	3.50	3.50
O'Connor & Stratton, Hartford, Kan	9.00	3.50	3.50
J. H. Ogan, Sedgwick, Kan	9.00	3.50	3.50
Olivet Elevator & Lumber Co., Olivet, Kan	9.00	3.50	3.50
D. C. O'Neil, Axtell, Kan	9.00	3.50	3.50
One Price Feed Store, La Harpe, Kan	9.00	3.50	3.50
C. M. Orr, Hepler, Kan	9.00	3.50	3.50
B. W. Orr, Hammond, Kan	9.00	3.50	3.50
Osawatomie Feed & Fuel Co., Osawatomie, Kan	9.00	3.50	3.50
R. F. Pack, Cedarvale, Kan	9.00	3.50	3.50
J. E. Palmer, Norton, Kan	9.20	3.50	3.50
Paola Mill & Elevator Co., Paola, Kan	9.00	3.50	3.50
S. Park & Son, Sedan, Kan	9.00	3.50	3.50
Partridge Cooperative Equity Exchange, Partridge, Kan	9.00	3.50	3.50
Paxico Elevator, Paxico, Kan	9.50	3.50	3.50

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
The Pearl Roller Mill Co., Oswego, Kan.	9.00	3.50	3.50
Pearl Town Mercantile Co., Pearl, Kan.	9.00	3.50	3.50
The Peerless Flour Mills Co., Norton, Kan.	9.00	3.50	3.50
The Peerless Mills, Wichita, Kan.	9.00	3.50	3.50
J. W. Perry, Concordia, Kan.	9.00	3.50	3.50
Phillips Feed Mill, Winfield, Kan.	9.25	3.50	3.50
Phillipsburg Mill & Elevator Co., Phillipsburg, Kan.	9.00	3.50	3.50
A. J. Poor Elevator, Chapman, Kan.	9.20	3.50	3.50
A. J. Poor Grain Co., Russell, Kan.	9.20	3.50	2.10
C. T. Potter, LaCygne, Kansas	9.00	3.50	3.50
M. S. Powell & Son, Thayer, Kan.	9.00	3.50	3.50
L. M. Pratt, Wetmore, Kan.	9.00	3.50	3.50
The Pratt Mills, Pratt, Kan.	9.00	3.50	3.50
Protzman & Protzman, Paola, Kan.	9.00	3.50	3.50
Protzman & Son, Hillsdale, Kan.	9.00	3.50	3.50
E. B. Purcell Trading Co., Manhattan, Kan.	9.50	3.50	3.50
Ragan Grain Co., Nortonville, Kan.	9.00	3.50	3.50
Randle Coal Co., Hutchinson, Kan.	9.00	3.50	3.50
Raymond Grain & Supply Co., Raymond, Kan.	9.00	3.50	3.50
Raynolds, Post & Raynolds, Arkansas City, Kan.	8.00	2.80	5.00
Rea-Patterson Milling Co., Coffeyville, Kan.	9.00	3.50	3.50
Red Star Mill & Elevator Co., Mill A, Wichita, Kan.	9.00	4.00	3.50
Rhodes & Reed, Anthony, Kan.	9.00	3.50	3.50
G. W. Ringle, LeRoy, Kan.	9.00	3.50	3.50
Harry Roberts, Centralia, Kan.	9.00	3.50	3.50
Rock Creek Elevator, Rock Creek, Kan.	9.00	3.50	3.50
Rock Milling & Elevator Co., Pawnee Rock, Kan.	9.00	3.50	3.50
Romp & Son, Walnut, Kan.	9.00	3.50	3.50
C. T. Rook, Sabetha, Kan.	9.00	3.00	5.00
W. E. Ruse, Sabetha, Kan.	9.00	3.50	3.50
Rust & Call, Mound Valley, Kan.	9.50	3.50	3.50
Ryan Lumber Co., McCracken, Kan.	9.00	3.50	3.50
St. John Mills, St. John, Kan.	9.00	3.00	3.00
St. Marys Grain Co., St. Marys, Kan.	9.00	3.50	3.50

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
E. R. Sanner & Co., Newton, Kan.....	9.00	3.50	3.50
Satanta Equity Exchange, Satanta, Kan.....	9.00	3.50	3.50
N. Sauer Milling Co., Burrton, Kan.....	9.00	3.50	3.50
J. J. Schenkel, Bazine, Kan.....	9.00	3.50	3.50
Schilling Grain Co., Kansas City, Kan.....	9.00	3.50	3.50
W. H. Schooley & Son, Prescott, Kan.....	9.00	3.50	3.50
Fred Schwarz, Offerle, Kan.....	9.00	3.50	3.50
Scouler & Bishop, Superior, Neb.....	9.00	3.60	2.60
Sedgwick Alfalfa Mill, Sedgwick, Kan.....	9.20	2.50	5.00
Geo. H. Sellers, Syracuse, Kan.....	9.00	3.50	3.50
Severance Milling Co., Severance, Kan.....	9.00	3.50	3.50
Shady Bend Mill & Elevator Co., Shady Bend, Kan.....	9.00	3.50	3.50
Shellabarger Mill & Elevator Co., Salina, Kan.....	9.00	3.50	3.50
Shoup & Throckmorton, Mulvane, Kan.....	9.40	3.50	3.10
Shubert & Teghtmeyer, Ottawa, Kan.....	9.00	3.50	3.50
Jacob L. Shumaker, Goff, Kan.....	9.00	3.50	3.50
L. Shumate, Minneola, Kan.....	9.00	3.50	3.50
Simpson Milling Co., Simpson, Kan.....	9.00	3.50	3.50
H. W. Skinner, Medicine Lodge, Kan.....	9.00	3.50	3.50
W. R. Smith, El Dorado, Kan.....	9.00	3.50	3.50
N. M. Smith Grain Co., McCune, Kan.....	9.00	3.50	3.50
Smith & Stevens, Pretty Prairie, Kan.....	9.00	3.50	3.50
Snell Mill & Grain Co., Clay Center, Kan.....	9.00	3.50	3.50
S. D. Snyder, Hiawatha, Kan.....	9.00	3.50	3.10
Solomon Roller Mills, Solomon, Kan.....	9.00	3.50	3.50
Solomon Valley Milling Co., Kansas City, Kan.....	9.00	3.05	3.05
E. G. Spaulding, Burlingame, Kan.....	10.00	3.50	3.70
Square Deal Seed Co., Coffeyville, Kan.....	9.00	3.50	3.50
Stanton Feed Store, Minneapolis, Kan.....	9.00	3.50	3.50
Star Grain & Lumber Co., Agricola, Kan.....	9.00	3.50	3.50
Star Grain & Lumber Co., Waverly, Kan.....	9.00	3.50	3.50
Star Grain & Lumber Co., Wellsville, Kan.....	9.00	3.50	3.50
Starkweather & Wilson, Clay Center, Kan.....	10.00	3.50	3.50
Star Mill, Independence, Kan.....	9.50	3.50	3.00

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

CORN CHOP—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
J. A. Stark, Bonner Springs, Kan	9.00	3.50	3.50
Stauffer Cammack Grain Co., Columbus, Kan	9.00	3.00	6.00
M. Steffes, Olpe, Kan	9.00	3.50	3.50
C. E. Stevens, Junction City, Kan	10.00	3.50	3.50
H. L. Stewart Grain Co., McCune, Kan	9.00	3.50	3.50
B. Strong Grain & Coal Co., Conway Springs, Kan	8.50	3.00	3.50
Sylvia Feed Store, Sylvia, Kan	9.00	3.50	3.50
Syracuse Milling & Elevator Co., Syracuse, Kan	9.30	4.00	4.20
R. B. Trechsel, Idana, Kan	9.00	3.50	3.50
J. S. Turnpaugh, Strong City, Kan	9.00	3.50	3.50
Ulrich Brothers, Hamilton, Kan	9.00	3.50	3.50
J. Underwood & Son, Lawrence, Kan	9.00	3.50	3.50
Union Grain Co., Rozel, Kan	9.00	3.50	3.50
Uniontown Elevator, Uniontown, Kan	9.00	3.50	3.50
A. R. Upp Grain Co., Fowler, Kan	9.00	3.50	3.50
Valley Center Grain Co., Valley Center, Kan	9.00	3.50	3.50
A. C. Van Camp, Council Grove, Kan	9.00	3.50	3.50
C. H. Veatch, Ellsworth, Kan	9.00	3.50	3.50
Vance Grain Co., Corwin, Kan	9.00	3.50	3.50
Vickers Elevator Co., Liberal, Kan	8.00	2.50	6.00
Vining Grain Co., Vining, Kan	9.00	3.50	3.50
Arthur Waetzig, Carbondale, Kan	9.00	3.50	3.50
Wall Rogalsky Milling Co., McPherson, Kan	9.25	3.25	3.50
Wallingford Brothers Grain Co., Ashland, Kan	9.20	3.00	3.00
Wamego Seed & Elevator Co., Wamego, Kan	9.00	3.50	3.50
Ward Grain Co., Gardner, Kan	12.50	4.00	3.50
Washer Grain Co., Atchison, Kan	9.00	3.50	3.50
Washington County Farmers' Union Cooperative Association, Barnes, Kan	9.00	3.50	3.50
Washington County Farmers' Union Cooperative Association, Greenleaf, Kan	9.00	3.50	3.50
Washington County Farmers' Union Cooperative Association, Hanover, Kan	9.00	3.50	3.50
Washington County Farmers' Union Cooperative Association, Washington, Kan	9.00	3.50	3.50
D. J. Watson, Parker, Kan	9.00	3.50	3.50

Feeds registered up to September 1, 1917.

CORN CHOP—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
I. D. Weaver, Maple Hill, Kan.	9.00	3.50	3.50
Otto Weiss Milling Co., Wichita, Kan.	9.00	3.50	3.50
J. Welch & Sons, Leavenworth, Kan.	9.00	3.50	3.50
Wellington Milling & Elevator Co., Wellington, Kan.	9.00	4.00	3.00
Wellsford Grain Company, Wellsford, Kan.	9.00	3.50	3.50
West Side Mill, Wichita, Kan.	9.00	3.50	3.50
Western Grain Co., Kansas City, Mo.	9.00	3.00	3.50
Western Seed House, Salina, Kan.	9.00	3.50	3.50
Western Star Mill Co., Salina, Kan.	9.00	3.50	3.50
Alfred Weston & Co., Kansas City, Kan.	9.00	3.50	3.50
H. B. Wheaton Grain Co., Montezuma, Kan.	9.00	3.50	3.50
White City Grain Co., White City, Kan.	9.00	3.50	3.50
White Cloud Grain Co., White Cloud, Kan.	9.00	3.50	3.50
Whitewater Milling & Elevator Co., Whitewater, Kan.	9.00	3.50	3.50
Wichita Flour Mills Co., Wichita, Kan.	9.00	3.50	3.50
W. H. Willey, Clay Center, Kan.	10.00	3.50	3.50
W. S. Williams Grain Co., Ottawa, Kan.	9.20	3.50	3.50
J. R. Williamson, Harper, Kan.	9.00	3.50	3.50
Geo. Wille, jr., Piqua, Kan.	9.00	3.50	3.50
Wilson Brothers, Quenemo, Kan.	9.20	3.50	3.50
Wilson Legler Hay & Grain Co., Leavenworth, Kan.	9.00	3.10	3.70
Wilson Flour Mills Co., Wilson, Kan.	9.00	3.50	3.50
Winifred Farmers' Cooperative Association, Winifred, Kan.	9.00	3.50	3.50
E. A. Winters, Portis, Kan.	9.00	3.50	3.50
Wolf Milling Co., Ellinwood, Kan.	9.50	5.50	2.20
Wright Milling Co., Delphos, Kan.	9.00	3.50	3.50
Wyman & Johnson, Scandia, Kan.	9.00	3.50	3.50
Yates Center Mill, Yates Center, Kan.	9.40	2.50	4.50
Young & Sons, Hutchinson, Kan.	9.00	3.50	3.50
J. S. Zink, Neosho Falls, Kan.	9.00	3.50	3.50
F. B. Zuhars, Peabody, Kan.	9.00	3.50	3.50

Feed Registration Under Kansas Law. 31

Feeds registered up to September 1, 1917.

CORN CHOP AND CORN BRAN.

Composed of corn chop and not to exceed the amount of corn bran shown.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Alexander Milling Co., Winfield, Kan.....	5%	8.00	3.50	4.00
Anthony Mills, Anthony, Kan.....		7.00	2.50	7.00
Arkansas City Milling Co., Arkansas City, Kan.....	10%	9.00	3.50	3.50
The Attica Mills, Attica, Kan.....	5%	9.00	3.50	3.50
Belleville Mill & Elevator Co., Belleville, Kan.....	1%	9.00	3.25	4.25
J. W. Boyd Grain & Commission Co., Joplin, Mo....	3%	9.00	3.50	3.50
Brooks Wholesale Co., Fort Scott, Kan.....	10%	7.00	2.50	7.00
Caldwell Milling Co., Caldwell, Kan.....	5%	9.76	3.50	3.50
City Mill & Elevator, Emporia, Kan.....		9.00	3.50	4.00
Excelsior Milling & Power Co., Burlington, Kan.....	5%	10.00	4.02	5.50
The Goodlander Mills, Fort Scott, Kan.....		7.00	2.50	7.00
Hays City Milling & Elevator Co., Hays, Kan.....	4%	9.00	3.50	3.50
Hogan Milling Co., Junction City, Kan.....	5%	9.00	3.50	4.25
The Humboldt Mill & Power Co., Humbolt, Kan.....	5%	9.00	3.00	10.00
Hutchinson Flour Mills Co., Hutchinson, Kan.....	10%	9.00	3.50	3.50
Independent Milling Co., Kingman, Kan.....	2%	9.00	3.50	3.50
Kelso Grain Co., Cherokee, Kan.....	10%	9.54	3.99	5.50
Keystone Milling Co., Larned, Kan.....	3%	16.00	4.10	3.00
Kingman Mills, Kingman, Kan.....		7.00	2.50	7.00
Land Milling Co., Neodesha, Kan.....	10%	8.00	3.00	5.00
Newton Mill & Elevator Co., Newton, Kan.....	8%	9.52	3.57	3.50
Pittsburg Corn Mills, Pittsburg, Kan.....	3%	9.00	3.50	3.50
Pittsburg Elevator Co., Pittsburg, Kan.....	3%	9.00	3.50	3.50
Pratt Mills, Pratt, Kan.....		7.00	2.50	7.00
Protection Roller Mills, Protection, Kan.....	5%	9.00	3.50	3.50
Rea-Patterson Milling Co., Coffeyville, Kan.....	10%	8.00	3.00	5.00
St. Francis Milling Co., St. Francis, Kan.....	8%	9.00	3.50	3.50
Security Flour Mills Co., Abilene, Kan.....	10%	9.00	3.50	3.50
Stafford County Flour Mills Co., Hudson, Kan.....	50%	8.00	3.00	3.50
Western Star Mill Co., Salina, Kan.....		10.00	3.50	4.00
White Cloud Grain Co., White Cloud, Kan.....		9.00	3.50	3.21
Williamson Milling Co., Clay Center, Kan.....	1%	9.00	3.50	5.00
Winfield Flour Mills Co., Winfield, Kan.....	10%	9.00	3.50	3.50

Feeds registered up to September 1, 1917.

CORN BRAN.

Composed of the outer coating of the corn kernel as produced in the usual process of commercial milling.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Alcock's Pioneer Mill, Chanute, Kan.....	10.00	4.00	9.00
Ashby & Sons, Leavenworth, Kan.....	9.00	3.50	3.50
L. A. Bauman, Wathena, Kan.....	3.00	8.00	12.00
Beloit Milling Co., Beloit, Kan.....	10.50	4.50	4.50
J. B. Billard, Topeka, Kan.....	6.00	5.00	9.00
Bossemeyer Brothers, Concordia, Kan.....	5.00	2.85	15.00
Bossemeyer Brothers, Courtland, Kan.....	5.00	2.85	15.00
Brown County Seed House, Hiawatha, Kan.....	9.00	5.50	14.00
Emil Bruner, Hope, Kan.....	8.00	3.00	12.00
Clark Brothers, Troy, Kan.....	9.00	5.00	14.00
W. O. Decker & Co., Garnett, Kan.....	9.00	6.00	10.00
Delphos Milling Co., Delphos, Kan.....	10.00	8.00	12.00
Dickinson Brothers Grain & Hay Co., Humbolt, Kan.....	8.00	6.50	12.00
H. Eichenlaub, Seneca, Kan.....	8.00	4.50	12.00
Eudora Mills, Eudora, Kan.....	9.00	3.00	14.00
Farmers' & Merchants' Corn Mill, Coffeyville, Kan.....	7.55	3.76	16.25
Glasco Milling Co., Glasco, Kan.....	12.00	4.00	12.00
Greeley Milling Co., Greeley, Kan.....	10.00	6.00	10.00
Halstead Milling & Elevator Co., Halstead, Kan.....	9.00	5.00	14.00
Hampton Brothers Milling Co., Fredonia, Kan.....	10.00	7.00	12.00
W. G. Higby, Whiting, Kan.....	8.50	5.00	14.00
J. W. & C. R. Jackson, Kirwin, Kan.....	10.00	6.00	10.00
Jones Milling Co., Wichita, Kan.....	9.00	5.00	11.00
M. A. Kelley, Leavenworth, Kan.....	8.00	4.80	13.70
Kemper-Fair Milling Co., Tonganoxie, Kan.....	6.00	3.50	16.00
S. B. Kennedy & Son, Fort Scott, Kan.....	8.00	4.00	12.00
Kiowa Milling Co., Kiowa, Kan.....	8.49	4.34	11.00
Lebanon Mill & Elevator Co., Lebanon, Kan.....	16.00	3.50	5.50
Little River Roller Mills, Little River, Kan.....	10.00	5.00	9.00
McKinney & Barkley, Howard, Kan.....	9.00	3.00	12.00
The Mapleton Mill, Mapleton, Kan.....	8.00	5.00	12.00
Monarch Milling Co., Hutchinson, Kan.....	10.00	6.00	10.00
Moses Brothers Mills, Great Bend, Kan.....	7.00	2.50	7.00

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

CORN BRAN—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of--		
	Protein not less than—	Fat not less than—	Fiber not more than—
New Era Milling Co., Arkansas City, Kan.....	10.00	7.00	14.00
H. Niemoller & Sons, Wakefield, Kan.....	8.00	3.00	8.05
R. F. Pack, Cedarvale, Kan.....	7.50	4.00	14.00
Paola Mill & Elevator Co., Paola, Kan.....	10.00	6.00	14.00
The Pearl Roller Mill Co., Oswego, Kan.....	6.00	3.00	12.00
Peerless Mills, Wichita, Kan.....	9.00	5.00	12.00
Rea-Patterson Milling Co., Coffeyville, Kan.....	10.00	4.00	9.00
C. T. Rook, Sabetha, Kan.....	10.00	6.00	10.00
St. John Mills, St. John, Kan.....	10.00	6.00	10.00
Severance Milling Co., Severance, Kan.....	10.17	4.22	8.53
Snell Mill & Grain Co., Clay Center, Kan.....	9.00	6.00	11.00
Solomon Roller Mills, Solomon, Kan.....	10.00	6.40	14.00
Solomon Valley Milling Co., Kansas City, Kan.....	8.00	3.50	12.50
W. S. Williams Grain Co., Ottawa, Kan.....	5.90	1.70	20.70
Wilson Legler Hay & Grain Co., Leavenworth, Kan.....	8.50	5.00	14.00
Winfield Flour Mills Co., Winfield, Kan.....	9.00	6.50	12.00
Wolf Milling Co., Ellinwood, Kan.....	8.50	5.00	14.00
Wright Milling Co., Delphos, Kan.....	10.00	6.00	14.00

CORN BRAN AND SCREENINGS.

Composed of corn bran and not more than 8 percent screenings.

Kimball Milling Co., Kansas City, Mo.....	8.00	3.50	12.50
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CORN GLUTEN FEED.

Composed of the residue from the manufacture of corn starch and glucose.

Corn Products Refining Co., New York, N. Y.....	23.00	1.00	8.50
Douglas Company, Cedar Rapids, Iowa.....	23.00	1.00	8.00

HOMINY FEED.

Composed of a mixture of the bran coating, the germ and a part of the starchy portion of the corn kernel.

Aunt Jemima Mills, St. Joseph, Mo.....	11.00	6.00	7.50
Blair Milling Co., Atchison, Kan.....	9.00	6.50	7.00
Nebraska Corn Mills, Lincoln, Neb.....	10.00	8.00	5.00

Feeds registered up to September 1, 1917.

CORN AND COB CHOP.

Composed of ground ear corn.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Dodge City Alfalfa Milling, Elevator & Supply Co., Dodge City, Kan.	8 00	3.50	7.00
Lebanon Alfalfa Milling Co., Lebanon, Kan.	7.00	3.00	6.80
Mankato Flour & Feed Store, Mankato, Kan.	7.50	3 00	6 00

CORN AND OATS CHOP.

Composed of corn and oats chopped together.

Athol Cooperative Grain Co., Athol, Kan.	10 50	4.00	8.00
J. B. Billard, North Topeka, Kan.	9.00	4.00	5.00
Jones Milling Co., Wichita, Kan.	10.00	3.20	6.00
Newton Roller Feed Mill, Newton, Kan.	9.50	4.50	7.00
Fearless Mills, Wichita, Kan.	16 00	3 50	8 50

KAFIR CHOP.

Composed of the entire grain removed from the head and chopped.

L. C. Adam Mercantile Co., Cedar Vale, Kan.	11.00	3.00	2.00
Alexander Milling Co., Winfield, Kan.	9.50	3.00	2.25
J. M. Black, Lebo, Kansas.	10.00	2.50	3.00
Boblits Grain Co., Cedar Point, Kan.	10.00	2.50	3.00
City Feed Mill, Atlanta, Kan.	10.00	2.50	3.50
Coffey Brothers, New Salem, Kan.	10.00	1.50	4.00
Grenola Mill & Elevator Co., Grenola, Kan.	9.50	2.40	2.90
F. H. Hamilton, Anthony, Kan.	10.00	2.50	3.50
J. C. Higdon, South Haven, Kan.	10.50	2.75	2.50
F. A. Layton, Allen, Kan.	12.00	3.00	4.00
Mapleton Mill, Mapleton, Kan.	9 00	3.50	3.50
Noble Grain Co., Bronson, Kan.	10.00	2.50	3.00
R. F. Pack, Cedar Vale, Kan.	12 00	3.00	3 50
Peerless Mills, Wichita, Kan.	9.80	2.70	2.70
Geo. H. Sellers, Syracuse, Kan.	11.00	3.00	3.70
H. W. Skinner, Medicine Lodge, Kan.	10 00	2 75	3.50
L. Shumate, Minneola, Kan.	9.00	3.50	3.50
M. Steffes, Olpe, Kan.	13.00	3.25	4.50
J. S. Turnpaugh, Strong City, Kan.	10 00	2.50	3.00
A. R. Upp Grain Co., Fowler, Kan.	10.00	2.50	3 00
White City Grain Co., White City, Kan.	12.00	3.00	4.00
F. B. Zuhars, Peabody, Kan.	10 00	2.50	3.00

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GRAIN SORGHUM CHOP.

Composed of the entire grains of kafir, milo, or feterita or mixtures thereof removed from the head and chopped.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
L. M. Cayton, Liberal, Kan.	10.00	2.50	3.50
Lakin Feed Mill & Elevator Co., Lakin, Kan.	10.00	2.50	3.50
Liberal Feed Yard, Liberal, Kan.	10.00	3.00	3.50
S. Park & Son, Sedan, Kan.	13.00	3.00	4.00
The Schilling Grain Co., Kansas City, Kan.	9.00	3.00	3.50
Wallingford Brothers Grain Co., Ashland, Kan.	10.00	2.50	3.00
H. B. Wheaton Grain Co., Montezuma, Kan.	12.50	3.00	5.00
Burris E. Wright, Liberal, Kan.	10.00	3.00	3.50

KAFIR AND MILO CHOP.

Composed of the entire grains of kafir and milo removed from the head and chopped.

The Cimarron Cooperative Exchange, Cimarron, Kan.	9.00	1.50	5.00
A. H. Ling Milling & Elevator Co., Jetmore, Kan.	10.00	2.25	3.25
Satanta Equity Exchange, Satanta, Kan.	12.00	3.00	4.00
Vickers Elevator Co., Liberal, Kan.	10.00	2.50	3.00

MILO CHOP.

Composed of the entire grains of milo removed from the head and chopped.

Pittsburg Modern Milling Co., Pittsburg, Kan.	9.00	3.50	3.50
Pittsburg Elevator Co., Pittsburg, Kan.	10.00	3.50	3.00
The Union Grain Co., Rozel, Kan.	10.00	2.25	3.50

BARLEY AND CORN CHOP.

Composed of ground barley and corn.

Athol Cooperative Grain Co.	10.50	2.50	6.00
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CORN BRAN AND KAFIR HULLS.

Composed of the coating of the corn kernel after grinding, chaff and kafir hulls.

Schilling Grain Co.	8.00	3.50	12.50
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OATS CHOP.

Composed wholly of ground, cut, rolled, or chopped oats.

T. A. Beck, Topeka, Kan.	11.00	5.00	10.00
Herkimer Cooperative Business Association, Herkimer, Kan.	10.50	4.00	12.00
Starkweather & Wilson, Clay Center, Kan.	11.00	4.00	12.00
J. Welch & Sons, Leavenworth, Kan.	9.00	3.50	3.50

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BARLEY CHOP.

Composed wholly of ground, cut, rolled or chopped barley.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Phillip Bauer, Burdett, Kan.	10.50	1.75	6.50
W. M. Chelf & Sons, Leoti, Kan.	12.00	1.50	8.00
Farmers' Grain & Supply Co., Burdett, Kan.	10.50	1.75	6.50
Garfield Cooperative Company, Garfield, Kan.	12.00	2.00	8.00
Goodland Equity Exchange, Goodland, Kan.	13.00	2.00	8.00
J. A. Graham, Ransom, Kan.	12.00	2.00	10.00
J. G. Hamilton, Goodland, Kan.	8.00	1.50	8.00
St. Francis Milling Co., St. Francis, Kan.	10.00	1.50	10.00
Fred Schwarz, Offerle, Kan.	15.50	1.50	4.00
The Union Grain Co., Rozel, Kan.	11.50	1.25	4.00
A. R. Upp Grain Co., Fowler, Kan.	10.00	1.50	6.50

MIXED CHOP.

Composed of grains of barley, rye, kafir, milo or kafirita, ground or chopped.

Philip Bauer, Burdett, Kan.	10.00	2.00	4.00
Farmers' Grain & Supply Co., Burdett, Kan.	9.00	2.00	5.00

SHORTS.

Composed of the fine particles of the outer bran, the inner or "bee-wing" bran, germ, and the offal or refuse material obtained in the last reductions on middlings.

Agenda Milling Co., Agenda, Kan.	16.50	3.50	5.50
Alton Roller Mills, Alton, Kan.	16.00	3.50	6.25
Anthony Mills, Anthony, Kan.	16.00	3.50	5.50
Attica Mills, Attica, Kan.	16.00	3.50	5.50
Barton County Flour Mills Co., Great Bend, Kan.	16.00	3.50	7.00
Belleville Mill & Elevator Co., Belleville, Kan.	16.50	4.00	5.50
Blackwell Milling & Elevator Co., Blackwell, Okla.	17.00	4.00	5.00
Elair Milling Co., Atchison, Kan.	16.00	3.50	5.50
Blue Rapids Milling Co., Blue Rapids, Kan.	16.00	3.50	5.50
Power Milling Co., Elk City, Kan.	16.00	3.50	3.50
Powersock Mills & Power Co., Lawrence, Kan.	16.00	4.00	5.50
Erwin County Seed House, Hiawatha, Kan.	18.00	4.00	5.00
Arnold Brunner, Dillon, Kan.	17.90	4.30	5.80
Euhler Mill & Elevator Co., Buhler, Kan.	17.00	4.00	5.00
East Cst. Mill, Elevator & Ice Co., Burr Oak, Kan.	18.00	4.50	5.50

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

SHORTS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Bushton Mill & Elevator Co., Bushton, Kan	16.00	3.50	5.50
Caldwell Milling Co., Caldwell, Kan	16.39	3.53	5.80
W. H. Callaway, Greenleaf, Kan	14.83	3.89	4.83
Cawker City Milling Co., Cawker City, Kan	16.00	3.50	5.50
Central Kansas Milling Co., Lyons, Kan	16.00	3.75	5.50
Chapman Mill & Elevator Co., Chapman, Kan	14.90	3.90	4.00
Chapman Milling Co., Chapman, Kan	14.90	3.90	4.00
W. M. Chelf & Sons, Leoti, Kan	16.00	3.50	5.50
City Mill & Elevator, Emporia, Kan	16.00	4.25	5.50
Clark Brothers, Troy, Kan	16.00	3.50	5.50
Cottonwood Valley Milling Co., Marion, Kan	15.50	3.00	4.25
Delphos Milling Co., Delphos, Kan	16.00	4.00	5.50
Ellinwood Mill & Elevator Co., Ellinwood, Kan	16.00	3.50	5.50
Ellsworth Mill & Elevator Co., Ellsworth, Kan	16.20	4.00	5.50
Empire Milling Co., Newton Kan	14.50	3.00	3.50
English Brothers Milling Co., Bonner Springs, Kan	16.00	3.50	5.50
Enns Milling Co., Inman, Kan	16.00	4.00	5.00
Excelsior Milling & Power Co., Burlington, Kan	18.30	4.09	5.50
Farmers Mill & Elevator Co., Albert, Kan	16.00	3.50	3.50
Federated Mills Co., Morganville, Kan	16.00	4.00	5.00
J. R. Foden, Emporia, Kan	14.50	3.50	5.50
Gifford Brothers, Jamestown, Kan	16.00	3.50	5.50
Glade Milling Co., Glade, Kan	16.00	3.50	5.50
Glasco Milling Co., Glasco, Kan	16.00	3.50	5.50
C. F. Goodman, Lenora, Kan	16.00	4.00	6.00
Grain Products Co., Wichita, Kan	15.00	3.50	5.00
Groening Brothers, Lehigh, Kan	16.00	3.50	5.00
Gypsum City Mill & Elevator Co., Gypsum, Kan	16.00	4.20	5.50
Hogan Milling Co., Junction City, Kan	16.00	3.85	4.25
Holyrood Milling Co., Holyrood, Kan	16.00	3.50	5.50
Hope Milling Co., Hope, Kan	17.90	4.30	5.80
Hunter Milling Co., Wellington, Kan	16.00	3.50	5.50
The Hutchinson Flour Mills Co., Hutchinson, Kan	16.00	3.50	3.50
Ismert-Hincke Milling Co., Kansas City, Mo	16.00	4.50	6.50

Feeds registered up to September 1, 1917.

SHORTS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Ismert-Hincke Milling Co., Kansas City, Mo.	15 00	2 00	3 25
Ismert-Hincke Milling Co., Topeka, Kan	16 50	4 50	6 50
Ismert-Hincke Milling Co., Topeka, Kan	15.50	2 00	3 25
Jackman Roller Mills, Minneapolis, Kan	17 00	3 50	5 50
F. Jackson & Co., Stockton, Kan	16 00	5.50	5 50
J. W. & C. R. Jackson, Kirwin, Kan	16 00	3.50	5.50
Jewell Milling Co., Jewell, Kan	16.00	3 50	6 00
K. B. R. Milling Co., Marquette, Kan	16.50	4.00	5.50
Wm. Kelley Milling Co., Hutchinson, Kan.	16 00	3 50	8.00
Kemper-Fair Mill & Elevator Co., Tonganoxie, Kan	17.00	4 50	5 50
Kensington Milling Co., Kensington, Kan	16.00	3.50	6 00
Keystone Milling Co., Larned, Kan	17 40	4 50	6.51
Kiowa Milling Co., Kiowa, Kan	16.00	3.60	5 50
Lebanon Mill & Elevator Co., Lebanon, Kan	16 00	3.50	5.50
Lee Warren Milling Co., Salina, Kan	16.00	3.50	5 50
Lee Warren Milling Co., Salina, Kan	17.50	3 70	4.00
Lincoln Roller Mills, Lincoln, Kan	15.00	4.00	6.00
Lindsborg Mill & Elevator Co., Lindsborg, Kan	16.00	3.50	5.50
A. H. Ling Milling Co., Jetmore, Kan	16 00	3 50	5.50
Little River Rolling Mills, Little River, Kan	16.00	3.60	5 50
Lord Milling Co., Wamego, Kan	18.00	4 50	6 00
Lukens Milling Co., Atchison, Kan	13 00	4.00	9.00
Lyons Milling Co., Burrton, Kan	15 00	4 00	4 50
Lyons Milling Co., Lyons, Kan	15 00	4.00	4 50
Malone & Wenzel, Herndon, Kan	16 00	4.40	4.30
Manhattan Milling Co., Manhattan, Kan	15.00	3.00	6.00
Moffet & Co., Peabody, Kan	16.00	3.50	5.50
Naponee Milling Co., Naponee, Neb	16.00	4.00	6.50
New Era Milling Co., Arkansas City, Kan	17.50	3 75	5 50
H. Niemoller & Sons, Wakefield, Kan	17 00	3 50	5 00
Oberlin Roller Mills, Oberlin, Kan	16.25	4.00	6.50
Orleans Milling & Elevator Co., Orleans, Neb	16.00	4.00	5 50
Thomas Page Milling Co., Topeka, Kan	15.00	3.00	6.00
Paola Mill & Elevator Co., Paola, Kan	16.00	4 50	5 50

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Feeds registered up to September 1, 1917.

SHORTS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
The Pearl Roller Mill Co., Oswego, Kan	16.00	3.50	5.50
Peerless Flour Mills Co., Norton, Kan	16.25	3.50	5.50
Pittsburg Modern Milling Co., Pittsburg, Kan	16.00	3.50	5.50
St. Francis Milling Co., St. Francis, Kan	16.00	3.50	5.50
St. John Mills, St. John, Kan	16.50	4.00	6.50
Security Flour Mills Co., Abilene, Kan	16.00	3.50	6.00
Shady Bend Mill & Elevator Co., Shady Bend, Kan	16.00	4.50	5.00
J. L. Shumaker, Goffs, Kan	16.00	3.50	5.50
Simpson Milling Co., Simpson, Kan	16.00	3.05	4.00
Smoky Valley Roller Mills, Lindsborg, Kan	16.00	3.50	5.50
Solomon Roller Mills, Solomon, Kan	16.00	3.50	5.50
Southwestern Milling Co., Kansas City, Mo	15.00	3.80	6.70
Steinauer Milling Co., Steinauer, Neb	15.50	3.50	5.81
Walnut Creek Milling Co., Great Bend, Kan	18.20	3.82	5.46
Wellington Mill & Elevator Co., Wellington, Kan	16.00	3.50	5.50
Western Star Mill Co., Salina, Kan	17.00	4.00	5.50
Whitewater Milling & Elevator Co., Whitewater, Kan	16.00	4.00	5.50
Wichita Flour Mills Co., Wichita, Kan	16.50	4.50	5.50
Williamson Milling Co., Clay Center, Kan	16.00	4.00	5.00
Wolf Milling Co., Ellinwood, Kan	17.50	4.50	5.50
Wright Milling Co., Delphos, Kan	16.00	3.50	5.50

SHORTS AND SCREENINGS.

Composed of the fine particles of the outer bran, the inner or "bee-wing" bran, germ, the offal or fibrous material obtained in the last reductions on middlings and not to exceed the amount of screenings shown.

Abilene Flour Mills, Abilene, Kan	10%	16.00	3.50	5.50
Alexander Milling Co., Alexander, Kan	8%	16.00	3.50	5.50
Arkansas City Milling Co., Arkansas City, Kan	8%	16.00	3.50	5.50
Beloit Milling Co., Beloit, Kan	2%	16.00	3.50	5.50
Blaker Milling Co., Pleasanton, Kan	5%	16.00	3.50	5.50
Bulte & White Swan Mills, Kansas City, Kan	10%	16.00	3.50	5.50
Claffin Mill & Elevator Co., Claffin, Kan	5%	16.00	3.50	5.50
Colburn Brothers, McPherson, Kan	10%	16.00	3.50	5.50
Concordia Milling Co., Concordia, Kan	2%	16.00	4.20	5.00
Dodge City Milling & Elevator Co., Dodge City, Kan	3%	16.00	3.50	5.50

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Feeds registered up to September 1, 1917.

SHORTS AND SCREENINGS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Empire Milling Co., Newton, Kan.....	5%	16.00	3.50	5.50
Goodlander Mills, Fort Scott, Kan.....	10%	16.00	3.50	5.50
Hays City Milling & Elevator Co., Hays, Kan.....	8%	16.00	3.50	5.50
Hoffman Mills, Enterprise, Kan.....	10%	16.00	3.50	5.50
Ismert-Hincke Milling Co., Kansas City, Mo.....	15%	15.50	4.00	8.50
Ismert-Hincke Milling Co., Topeka, Kan.....	8%	16.00	4.50	6.50
Ismert-Hincke Milling Co., Topeka, Kan.....	8%	16.00	4.50	6.50
Kaw Milling Co., Topeka, Kan.....	5%	17.00	4.00	5.50
R. E. Kidder Flour Mills, Rosedale, Kan.....	8%	15.00	4.00	6.00
Kingman Mills, Kingman, Kan.....	10%	16.00	3.50	5.50
Land Milling Co., Neodesha, Kan.....	8%	16.00	3.50	5.50
J. C. Lysle Milling Co., Leavenworth, Kan.....	8%	16.00	4.50	5.50
Moses Brothers Mills, Great Bend, Kan.....	10%	16.00	3.50	5.50
Moundridge Milling Co., Moundridge, Kan.....	8%	16.00	3.75	5.50
Newton Milling & Elevator Co., Newton, Kan.....	8%	16.00	3.50	5.50
Willis Norton Co., Topeka, Kan.....	8%	16.00	3.50	5.50
Oketo Milling & Elevator Co., Oketo, Kan.....	8%	16.00	3.50	5.50
Plainville Mill & Elevator Co., Plainville, Kan.....	8%	17.00	3.00	5.50
Pratt Mills, Pratt, Kan.....	10%	16.00	3.50	5.50
Rea-Patterson Milling Co., Coffeyville, Kan.....	8%	16.00	3.50	5.50
Red Star Mill & Elevator Co., Wichita, Kan.:				
Mill A.....	8%	16.00	4.30	5.50
Mill B.....	8%	16.00	4.30	5.50
Russell Milling Co., Russell, Kan.....	8%	18.25	4.50	7.40
N. Sauer Milling Co., Cherryvale, Kan.....	8%	16.00	3.50	5.50
Schilling Grain Co., Kansas City, Kan.....		16.00	3.50	5.50
Snell Mill & Grain Co., Clay Center, Kan.....		16.00	4.00	6.76
Stafford County Flour Mills Co., Hudson, Kan.....	10%	14.50	3.50	5.50
Universal Mill Co., Claffin, Kan.....	8%	16.00	3.50	5.50
Wall-Rogalsky Milling Co., McPherson, Kan.....	5%	17.00	4.00	5.50
Wilson Flour Mills, Wilson, Kan.....	8%	16.50	3.50	5.50
Winfield Flour Mills Co., Winfield, Kan.....	8%	16.00	3.50	5.50

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

SHORTS AND SCOURINGS.

Composed of the fine particles of the outer bran, the inner or "bee-wing" bran, germ, the offal or fibrous material obtained in the last reductions on middlings and not to exceed the amount of scouring shown.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Independent Milling Co.....	2%	16.00	3.50	5.50
Shawnee Milling Co., Topeka, Kan.....		17.25	4.00	6.00

WHITE SHORTS.

Composed of a small portion of fine bran particles and germ and a large portion of the fibrous offal from the "tail of the mill."

Bowersock Mills & Power Co., Lawrence, Kan.....	15.88	3.87	3.50
Border Queen Milling Co., Caldwell, Kan.....	16.00	3.50	3.50
Ellsworth Mill & Elevator Co., Ellsworth, Kan.....	14.50	3.00	3.50
Empire Milling Co., Newton, Kan.....	14.50	3.00	3.50
Halstead Milling & Elevator Co., Halstead, Kan.....	14.50	3.00	3.50
Hillsboro Roller Mills, Hillsboro, Kan.....	16.00	3.50	3.50
Hutchinson Flour Mills Co., Hutchinson, Kan.....	14.00	3.00	3.50
Kansas Milling Co., Wichita, Kan.....	17.00	4.00	3.00
Kaw Milling Co., Topeka, Kan.....	15.00	3.00	3.50
K. B. R. Milling Co., Marquette, Kan.....	15.50	4.00	3.50
Kimball Milling Co., Rosedale, Kan.....	14.50	3.00	3.50
Leavenworth Milling Co., Leavenworth, Kan.....	16.00	4.00	3.00
Lee Warren Milling Co., Salina, Kan.....	15.50	1.70	1.00
Lindsborg Mill & Elevator Co., Lindsborg, Kan.....	15.50	4.00	6.50
New Era Milling Co., Arkansas City, Kan.....	17.60	3.75	3.50
Security Flour Mills Co., Abilene, Kan.....	14.50	3.00	3.50
Southwestern Milling Co., Kansas City, Mo.....	14.00	2.50	4.20
Winfield Flour Mills Co., Winfield, Kan.....	14.00	3.00	3.50
Wolf Milling Co., Ellinwood, Kan.....	17.00	4.50	5.50

WHITE SHORTS AND SCREENINGS.

Composed of a small portion of fine bran, particles, germ, a large portion of fibrous offal obtained from the "tail of the mill" and not to exceed the amount of screenings shown.

The Anthony Mills, Anthony, Kan.....	10%	14.50	3.00	3.50
Bulte & White Swan Mills, Kansas City, Kan.....	10%	14.50	3.00	3.50
Goodlander Mills, Fort Scott, Kan.....	10%	14.50	3.00	3.50
Hoffman Mills, Enterprise, Kan.....	10%	14.50	3.00	3.50
Moses Brothers Mills, Great Bend, Kan.....	10%	14.50	3.00	3.50
Pratt Mills, Pratt Kan.....	10%	14.50	3.00	3.50
Topeka Flour Mills Co., Topeka, Kan.....	8%	14.50	3.50	3.50

Feeds registered up to September 1, 1917.

WHITE SHORTS AND SCOURINGS.

Composed of a small portion of fine bran particles and germ, a large portion of fibrous offal obtained from the "tail of the mill" and not to exceed the amount of scourings shown.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Shawnee Milling Co., Topeka, Kan.	1/2%	16.50	4.00	6.00

BROWN SHORTS.

Composed of a large portion of the fine particles of bran and germ and a small portion of the fibrous offal obtained from the "tail of the mill."

Black Brothers, Beatrice, Neb.		16.00	4.00	6.50
Border Queen Milling Co., Caldwell, Kan.		16.00	3.50	6.00
Bowersock Mills & Power Co., Lawrence, Kan.		16.00	3.50	6.50
Clyde Milling & Elevator Co., Clyde, Kan.		16.00	3.50	6.50
Hillsboro Roller Mills, Hillsboro, Kan.		16.00	3.50	8.50
Kansas Milling Co., Wichita, Kan.		16.50	4.00	5.00
Kimball Milling Co., Kansas City, Mo.		16.00	4.00	6.50
Monarch Milling Co., Hutchinson, Kan.		16.00	4.05	5.50
Security Flour Mills Co., Abilene, Kan.		16.00	3.50	6.50
Southwestern Milling Co., Kansas City, Mo.		15.00	4.20	8.00

BROWN SHORTS AND SCREENINGS.

Composed of a large portion of the fine particles of bran and germ, a small portion of the fibrous offal obtained from the "tail of the mill" and not to exceed the amount of screenings shown.

Aunt Jemima Mills, St. Joseph, Mo.	8%	16.00	3.50	6.50
Goodlander Mills, Fort Scott, Kan.	10%	16.00	3.50	6.50
Shallaharger Mill & Elevator Co., Salina, Kan.	8%	16.00	3.00	6.50

RYE MIDLINGS.

Composed of the outer coating of the berry and the byproduct from the manufacture of rye flour.

Washburn-Crosby Co., Minneapolis, Min.		14.00	3.00	6.00
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SHORTS, LOW-GRADE FLOUR AND SCOURINGS.

Composed of bran and shorts, duster stock and second low grade.

Hays City Mill & Elevator Co., Hays, Kan.		16.50	2.30	1.60
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WHEAT BRAN.

Composed of the coarse outer coating of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling.

Agenda Milling Co., Agenda, Kan.		15.50	3.50	10.00
Anthony Mills, Anthony, Kan.		14.50	3.50	10.00
Black Brothers, Beatrice, Neb.		14.75	3.50	10.00
Blackwell Milling & Elevator Co., Blackwell, Okla.		15.00	3.50	10.00
Border Queen Milling Co., Caldwell, Kan.		15.00	3.50	10.00

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

WHEAT BRAN—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Brown County Seed House, Hiawatha, Kan.	16.70	4.30	10.00
Arnold Brunner, Dillon, Kan.	16.60	4.10	9.60
Burr Oak Mill, Elevator & Ice Co., Burr Oak, Kan.	16.00	4.00	10.00
W. H. Callaway, Greenleaf, Kan.	15.27	4.21	9.70
Cawker City Milling Co., Cawker City, Kan.	14.50	3.50	10.00
Chapman Milling Co., Chapman, Kan.			
W. M. Chelf & Sons, Leoti, Kan.	14.50	3.50	5.50
Ellinwood Mill & Elevator Co., Ellinwood, Kan.	14.50	3.50	10.80
English Brothers Milling Co., Bonner Springs, Kan.	14.50	3.50	10.00
Enns Milling Co., Inman, Kan.	14.75	3.50	10.00
Farmers' Mill & Elevator Co., Albert, Kan.	14.50	3.50	10.00
Federated Mills Co., Morganville, Kan.	14.50	3.75	10.00
Gifford Brothers, Jamestown, Kan.	14.60	3.50	10.00
Glade Milling Co., Glade, Kan.	14.50	3.50	10.00
C. F. Goodman, Lenora, Kan.	15.00	4.00	10.00
Groening Brothers, Lehigh, Kan.	15.00	3.25	10.00
Hope Mill & Elevator Co., Hope, Kan.	16.60	4.10	9.60
Hunter Milling Co., Wellington, Kan.	14.50	3.50	10.00
Independent Milling Co., Kingman, Kan.	14.50	3.50	10.00
Ismert-Hincke Milling Co., Kansas City, Mo.	15.00	3.50	10.00
Ismert-Hincke Milling Co., Topeka, Kan.	15.00	3.50	10.00
F. Jackson, Stockton, Kan.	14.50	3.50	10.00
J. W. & C. R. Jackson, Kirwin, Kan.	16.00	3.50	12.00
Kimball Milling Co., Kansas City, Mo.	15.00	3.50	10.00
Lincoln Roller Mills, Lincoln, Kan.	15.00	4.00	9.00
A. H. Ling Milling & Elevator Co., Jetmore, Kan.	14.50	3.50	10.00
Lord Milling Co., Wamego, Kan.	14.50	4.00	10.00
Malone & Wenzel, Herndon, Kan.	15.50	4.00	9.30
Naponee Milling Co., Naponee, Neb.	14.75	3.50	10.00
New Era Milling Co., Arkansas City, Kan.	16.00	3.50	10.00
Oketo Milling & Elevator Co., Oketo, Kan.	14.50	3.50	10.00
St. John Mills, St. John, Kan.	15.50	3.50	8.50
Shady Bend Mill & Elevator Co., Shady Bend, Kan.	15.00	3.50	10.00
J. L. Shumaker, Goffs, Kan.	14.50	3.50	10.00

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Feeds registered up to September 1, 1917.

WHEAT BRAN—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Southwestern Milling Co., Kansas City, Mo.	14.00	3.50	12.00
Southwestern Milling Co., Kansas City, Mo.	14.50	4.00	10.20
Steinauer Milling Co., Steinauer, Neb.	14.00	3.50	10.00
Walnut Creek Milling Co., Great Bend, Kan.	14.50	3.50	10.00
Wright Milling Co., Delphos, Kan.	14.50	3.50	10.00

WHEAT BRAN AND SCREENINGS.

Composed of the coarse outer coating of the wheat kernel as separated from cleaned and scoured wheat in the usual process of milling and not to exceed the amount of screenings shown.

Abilene Flour Mills Co., Abilene, Kan.	10%	14.00	3.50	10.00
Alexander Milling Co., Winfield, Kan.	8%	14.50	3.50	10.00
Alton Roller Mills, Alton, Kan.	*	14.50	3.50	10.00
Arkansas City Milling Co., Arkansas City, Kan.	8%	14.50	3.50	10.00
Aunt Jemima Mills Co., St. Joseph, Mo.	5%	14.50	3.50	10.00
Beloit Milling Co., Beloit, Kan.	2%	14.50	3.50	10.00
Blair Milling Co., Atchison, Kan.	1%	14.50	3.50	10.00
Blaker Milling Co., Pleasanton, Kan.	8%	14.50	3.50	10.00
Bowersock Mills & Power Co., Lawrence, Kan.	10%	14.50	3.75	10.00
Buhler Mill & Elevator Co., Buhler, Kan.	1%	14.00	3.50	10.00
Bulte & White Swan Mills, Kansas City, Kan.	10%	14.50	3.50	10.00
Caldwell Milling Co., Caldwell, Kan.	5%	15.06	3.34	10.00
Chapman Mill & Elevator Co., Chapman, Kan.	3%	14.50	3.30	8.00
Chapman Milling Co., Chapman, Kan.	½%	14.50	3.30	8.00
City Mill & Elevator Co., Emporia, Kan.	9%	14.50	3.50	10.00
Clafin Mill & Elevator Co., Clafin, Kan.	8%	14.50	3.50	10.00
Colburn Brothers Co., McPherson, Kan.	10%	14.50	3.50	10.00
Dodge City Milling & Elevator Co., Dodge City, Kan.	3%	14.50	3.50	10.00
Ellsworth Mill & Elevator Co., Ellsworth, Kan.	8%	14.50	3.50	10.00
Empire Milling Co., Newton, Kan.	5%	14.50	3.50	10.00
Excelsior Milling & Power Co., Burlington, Kan.	5%	16.20	3.73	8.57
J. R. Foden, Emporia, Kan.	8%	14.00	3.50	10.50
Glasco Milling Co., Glasco, Kan.	2%	14.50	3.50	10.00
Goodlander Mills Co., Fort Scott, Kan.	10%	14.50	3.50	10.00
Grain Products Co., Wichita, Kan.	8%	14.50	3.00	10.00

*Mill run.

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

WHEAT BRAN AND SCREENINGS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Gypsum City Mill & Elevator, Gypsum, Kan.....	2%	15.00	4.00	10.00
Halstead Milling Co., Halstead, Kan.....	5%	14.50	3.50	10.00
Hays City Milling & Elevator Co., Hays, Kan.....	8%	15.00	3.50	10.00
Hoffman Mills, Enterprise, Kan.....	10%	14.50	3.50	10.00
Hogan Milling Co., Junction City, Kan.....	3%	14.50	3.50	10.00
Holyrood Milling Co., Holyrood, Kansas.....	3%	14.50	3.50	10.00
Hutchinson Flour Mills Co., Hutchinson, Kan.....	8%	14.50	3.50	10.00
Jackman Roller Mills, Minneapolis, Kan.....	8%	16.00	3.50	10.00
Kansas Milling Co., Wichita, Kan.....	8%	15.50	3.50	8.50
K. B. R. Milling Co., Marquette, Kan.....	8%	14.50	3.50	10.00
Wm. Kelly Milling Co., Hutchinson, Kan.....	5%	14.50	3.50	10.50
Kemper-Fair Mill & Elevator Co., Tonganoxie, Kan.....	5%	15.00	3.50	10.50
Keystone Milling Co., Larned, Kan.....	8%	16.36	4.00	10.00
R. E Kidder Flour Mills, Rosedale, Kan.....	8%	14.50	3.50	10.00
Kingman Mills, Kingman, Kan.....	10%	14.50	3.50	10.00
Land Milling Co., Neodesha, Kan.....	8%	14.50	3.50	10.00
Leavenworth Milling Co., Leavenworth, Kan.....	8%	14.00	3.60	10.00
Lebanon Mill & Elevator, Lebanon, Kan.....	5%	14.50	3.50	10.00
Lee Warren Milling Co., Salina, Kan.....	8%	14.50	3.50	10.00
Lindsborg Milling & Elevator Co., Lindsborg, Kan.....	8%	14.50	3.50	10.00
Little River Roller Mills, Little River, Kan.....	5%	14.60	3.50	10.00
Lukens Milling Co., Atchison, Kan.....	2%	11.00	3.50	12.00
J. C. Lysle Milling Co., Leavenworth, Kan.....	8%	15.00	4.00	10.00
Manhattan Milling Co., Manhattan, Kan.....	5%	16.50	3.50	10.00
Miller Brothers, Alton, Kan.....	8%	14.50	3.50	10.50
Moffet & Co., Peabody, Kan.....	1½%	14.50	3.50	10.00
Moses Brothers Mills, Great Bend, Kan.....	10%	14.50	3.50	10.00
Moundridge Milling Co., Moundridge, Kan.....	8%	14.50	3.50	10.00
Newton Milling & Elevator Co., Newton, Kan.....	8%	14.50	3.50	10.00
Willis Norton & Co., Topeka, Kan.....	8%	14.50	3.50	10.00
Thomas Page Milling Co., Topeka, Kan.....	5%	15.50	3.50	10.00
Peerless Flour Mills Co., Norton, Kan.....	4%	15.00	3.50	10.00
Plainville Mill & Elevator Co., Plainville, Kan.....	2%	16.50	3.00	10.00
Pratt Mills, Pratt, Kan.....	10%	14.50	3.50	10.00

Feeds registered up to September 1, 1917.
WHEAT BRAN AND SCREENINGS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.			
	Percent of—			
	Protein not less than—	Fat not less than—	Fiber not more than—	
Rea-Patterson Milling Co., Coffeyville, Kan..	8%	14 50	3 50	10 00
Red Star Mill & Elevator Co.:				
Mill A.....	8%	14 50	3 50	10 00
Mill B.....	8%	14 50	3 50	10 00
Russel Milling Co., Russell, Kan.....	8%	15 75	4 15	9 00
St. Francis Milling Co., St. Francis, Kan...	5%	14 50	3 50	10 00
N. Sauer Milling Co., Cherryvale, Kan...	8%	14 50	3 50	10 00
Schilling Grain Co., Kansas City, Kan.		14 50	3 50	10 00
Security Flour Mills Co., Abilene, Kan....	6%	14 50	3 50	10 00
Shellabarger Mill & Elevator Co., Salina, Kan	8%	14 50	3 50	10 00
Simpson Milling Co., Simpson, Kan	10%	14 05	3 05	10 00
Smoky Valley Roller Mills, Lindsborg, Kan.	8%	14 50	3 50	10 00
Stafford County Flour Mills Co., Hudson, Kan	10%	14 50	3 50	10 00
Universal Mill Co., Claflin, Kan.....	3%	14 50	3 50	10 00
Wall Rogalsky Milling Co., McPherson, Kan...	5%	14 50	3 50	10 00
Wellington Milling & Elevator Co., Wellington, Kan..	5%	14 50	3 50	10 00
Western Star Mill Company, Salina, Kan.....	8%	16 00	3 50	10 00
Western Star Milling Co., Salina, Kan.....	8%	15 00	3 50	11 00
Whitewater Milling & Elevator Co., Whitewater, Kan.	5%	14 50	4 00	10 00
Wichita Flour Mills Co., Wichita, Kan.....	5%	14 50	3 50	10 00
Wilson Milling & Elevator Co., Wilson, Kan.....	8%	17 00	3 50	10 52
Winfield Flour Mills Co., Winfield, Kan....	8%	14 50	3 50	10 00
Wolf Milling Co., Ellinwood, Kan.....	8%	15 50	3 50	10 00

WHEAT BRAN AND SCOURINGS.

Composed of the coarse outer coating of the whole kernel as separated from cleaned and scoured wheat in the usual process of commercial milling and not to exceed the amount of scourings shown.

Attica Mills, Attica, Kan.		14 50	3 50	10 00
Barton County Flour Mills, Co., Great Bend, Kan ..	3%	14 50	3 50	10 00
Belleville Mill & Elevator Co., Belleville, Kan	8%	15 00	3 50	10 00
Blue Rapids Mill & Elevator Co., Blue Rapids, Kan	1%	14 50	4 25	10 00
Bushton Mill & Elevator Co., Bushton, Kan	3%	14 50	3 50	10 00
Central Kansas Milling Co., Lyons, Kan	5%	14 50	3 50	10 00
Classen's Roller Mills, Newton, Kan.....	2%	16 00	4 40	10 00
Clyde Milling & Elevator Co., Clyde, Kan ..	5%	14 50	3 50	10 00
Delphos Milling Co., Delphos, Kan.....	2%	14 50	4 00	10 00

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

WHEAT BRAN AND SCOURINGS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Jewell Milling Co., Jewell, Kan.		14.50	3.50	10.00
Kaw Milling Co., Topeka, Kan.	5%	15.50	5.50	10.00
Kensington Mill Co., Kensington, Kan.	2%	15.00	3.50	12.00
Kiowa Milling Co., Kiowa, Kan.	3%	15.30	4.10	3.00
Lyons Milling Co., Lyons, Kan.	8%	15.00	3.50	10.00
Monarch Milling Co., Hutchinson, Kan.	6.5%	14.50	3.50	10.00
H. Niemoller & Sons, Wakefield, Kan.	3/8%	15.00	3.50	9.25
Oberlin Roller Mills, Oberlin, Kan.	5%	14.75	3.50	12.00
Shawnee Milling Co., Topeka, Kan.		15.50	3.70	10.00
Snell Mill & Grain Co., Clay Center, Kan.	5%	15.00	4.00	10.65
Solomon Roller Mills, Solomon, Kan.	8%	14.50	3.50	10.00
Topeka Flour Mills Co., Topeka, Kan.	3%	14.50	3.50	10.00
Williamson Milling Co., Clay Center, Kan.	2%	15.50	3.50	12.00

WHEAT BRAN AND CORN BRAN.

Composed of wheat bran and not to exceed the percentage of corn bran shown.

Clark Brothers, Troy, Kan.	40%	14.50	3.50	10.00
Paola Mill & Elevator Co., Paola, Kan.	25%	14.00	4.00	9.00

WHEAT BRAN, SCREENINGS AND CORN BRAN.

Composed of wheat bran and not to exceed the percent of screenings and corn bran shown.

Blaker Milling Co., Pleasanton, Kan.	8% screenings. 10% corn bran.	14.50	3.60	12.50
Bowen Milling Co., Elk City, Kan.	8% screenings. 10% corn bran.	14.50	3.50	10.00
Concordia Milling Co., Concordia, Kan.	2% screenings. 8% corn bran.	15.00	4.00	11.00
Cottonwood Valley Milling Co., Marion, Kan.	5% screenings. 2% corn bran.	16.50	3.90	15.50
Gypsum City Mill & Elevator Co., Gypsum, Kan.	2% screenings. 40% corn bran.	15.00	4.20	9.00
Pittsburg Modern Milling Co., Pittsburg, Kan.	8% screenings. 8% corn bran.	14.50	3.50	10.00

WHEAT BRAN, CORN BRAN AND SCOURINGS.

Composed of wheat bran and not to exceed the per cent of corn bran and scourings shown.

Clyde Milling & Elevator Co., Clyde, Kan.	5% scourings.	14.00	3.50	11.00
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MIXED BRAN AND WHEAT SCREENINGS.

Hillsboro Roller Mills, Hillsboro, Kan.	10% screenings. 10% corn bran.	15.66	3.70	10.00
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Feeds registered up to September 1, 1917.

WHEAT MIXED FEED.

Composed of pure wheat bran and standard wheat shorts combined in the proportions obtained in the usual process of commercial milling.

NAME AND ADDRESS OF MANUFACTURER.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Anthony, Mills, Anthony, Kan.	16 00	3.50	8 50
Blackwell Milling & Elevator Co., Blackwell, Okla.	16.00	4.00	8 50
Border Queen Milling Co., Caldwell, Kan.	16 00	3 50	8 50
Brand-Dunwoody Milling Co., Joplin, Mo.	16.00	3.50	8.50
Ellinwood Mill & Elevator Co., Ellinwood, Kan.	16 00	3.50	8 50
Farmers' Mill & Elevator Co., Albert, Kan.	16 00	3.50	8.50
Hillsboro Roller Mills, Hillsboro, Kan.	15 00	3.50	9.00
Hunter Milling Co., Wellington, Kan.	16.00	3.50	8.50
Lee-Warren Milling Co., Salina, Kan.	16 00	3.50	8 50
New Era Milling Co., Arkansas City, Kan.	17.00	3.75	8.50
Protection Roller Mills, Protection, Kan.	16.00	3.50	8 50
St. John Mills, St. John, Kan.	16.00	4 00	7.00
Southwestern Milling Co., Kansas City, Mo.	14.50	4 00	9.00
Southwestern Milling Co., Kansas City, Mo.	15.80	3.20	10 60
Sylvan Roller Mills, Sylvan Grove, Kan.	17.20	4.20	7.50
Wagoner-Gates Milling Co., Independence, Mo.	15.50	4.00	10.00
Walnut Creek Milling Co., Great Bend, Kan.	16.00	3 50	8 50

WHEAT MIXED FEED AND SCREENINGS.

Composed of pure wheat bran and standard wheat shorts combined in the proportions obtained in the usual process of commercial milling and not to exceed the amount of screenings shown.

Alexander Milling Co., Winfield, Kan.	8%	16.00	3.50	8.50
Arkansas City Milling Co., Arkansas City, Kan.	8%	16 00	3.50	8.50
Aunt Jemima Mills Co., St. Joseph, Mo.	5%	16 00	3.50	8.50
Blaker Milling Co., Pleasanton, Kan.	8%	15.00	3.50	8.50
Bowersock Mills & Power Co., Lawrence, Kan.	10%	16.00	3.50	8.50
Buhler Mill & Elevator Co., Buhler, Kan.	1%	16.00	4.00	8.50
Caldwell Milling Co., Caldwell, Kan.	5%	15.06	3.84	10.00
Clafin Mill & Elevator Co., Clafin, Kan.	5%	16.00	3 50	8.50
Colburn Brothers, McPherson, Kan.	10%	16.00	3.00	8.50
Dodge City Milling & Elevator Co., Dodge City, Kan.	3%	16.00	3.50	8 50
Ellsworth Mill & Elevator Co., Ellsworth, Kan.	8%	16.00	3.50	8.50
Empire Milling Co., Newton, Kan.	5%	16.00	3.50	8.50
Enns Milling Co., Inman, Kan.	8%	16.00	3.50	8.50

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Feeds registered up to September 1, 1917.

WHEAT MIXED FEED AND SCREENINGS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Goodlander Mills, Fort Scott, Kan.	10%	16.00	3.50	8.50
Gorvin Flour & Grain Co., Wichita, Kan.	10%	16.00	3.50	9.00
Grain Products Co., Wichita, Kan.	8%	14.50	3.50	10.00
Gypsum City Mill & Elevator, Gypsum, Kan.	2%	16.00	3.50	8.50
Halstead Milling & Elevator Co., Halstead, Kan.	5%	16.00	3.05	8.50
Hays City Milling & Elevator Co., Hays, Kan.	8%	16.20	4.00	8.50
Hoffman Mills, Enterprise, Kan.	10%	16.00	3.50	8.50
Hogan Milling Co., Junction City, Kan.	3%	16.00	3.50	8.50
Hutchinson Flour Mills Co., Hutchinson, Kan.	8%	16.00	3.50	8.50
Kansas Milling Co., Wichita, Kan.	8%	16.00	4.00	7.00
Kaw Milling Co., Topeka, Kan.	5%	17.00	4.00	7.60
K. B. R. Milling Co., Marquette, Kan.	8%	17.00	3.75	8.50
Wm. Kelly Milling Co., Hutchinson, Kan.	5%	16.00	3.50	8.50
Kemper-Fair Milling Co., Tonganoxie, Kan.	5%	16.00	4.00	8.50
Keystone Milling Co., Larned, Kan.	3%	17.41	5.50	8.50
Kingman Mills, Kingman, Kan.	10%	16.00	3.50	8.50
Lindsborg Mill & Elevator Co., Lindsborg, Kan.	8%	16.00	3.50	8.50
J. C. Lysle Milling Co., Leavenworth, Kan.	8%	16.00	4.00	8.50
Moses Brothers Mills, Great Bend, Kan.	10%	16.00	3.50	8.50
Moundridge Milling Co., Moundridge, Kan.	8%	16.00	3.75	8.50
Newton Milling & Elevator Co., Newton, Kan.	8%	16.00	3.50	8.50
Willis Norton & Co., Topeka, Kan.	8%	16.00	3.50	8.50
Thomas Page Milling Co., Topeka, Kan.		15.00	3.00	8.00
The Pearl Roller Mill Co., Oswego, Kan.	8%	16.00	3.50	8.50
Pratt Mills, Pratt, Kan.	10%	16.00	3.50	8.50
Pittsburg Modern Milling Co., Pittsburg, Kan.		16.00	3.50	3.50
Rea-Patterson Milling Co., Coffeyville, Kan.	8%	16.00	3.50	8.50
Red Star Mill & Elevator Co., Wichita, Kan.:				
Mill A.	8%	16.00	3.70	8.50
Mill B.	8%	16.00	3.70	8.50
N. Sauer Milling Co., Cherryvale, Kan.	8%	16.00	3.50	8.50
Security Flour Mills Co., Abilene, Kan.	6%	16.00	3.50	8.50
Shellabarger Mill & Elevator Co., Salina, Kan.	8%	16.00	3.50	8.50
Stafford County Flour Mills Co., Hudson, Kan.	10%	16.00	3.50	8.50
Topeka Flour Mills, Topeka, Kan.	8%	6.00	3.50	8.50

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Feeds registered up to September 1, 1917.

WHEAT MIXED FEED AND SCREENINGS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.		GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Universal Mill Co., Claflin, Kan.	8%	16.00	3.50	8.50
Wall Rogalsky Milling Co., McPherson, Kan.	5%	16.50	4.00	10.00
Wellington Milling & Elevator Co., Wellington, Kan.	5%	16.00	3.50	8.50
Wichita Flour Mills Co., Wichita, Kan.	5%	16.00	3.50	8.50
Wilson Milling & Elevator Co., Wilson, Kan.	8%	16.20	4.00	8.50
Winfield Flour Mills Co., Winfield, Kan.	8%	16.00	3.50	8.50
Wolf Milling Co.	8%	16.00	3.50	8.50

WHEAT MIXED FEED AND SCOURINGS.

Composed of wheat bran and standard wheat shorts combined in the proportions obtained in the usual process of commercial milling and not to exceed the amount of scourings shown.

Attica Mills, Attica, Kan.	8%	16.00	3.50	8.50
Barton County Flour Mills Co., Great Bend, Kan.	3%	16.00	3.50	9.50
Central Kansas Milling Co., Lyons, Kan.	5%	16.00	3.50	8.50
Independent Milling Co., Kingman, Kan.	1%	16.00	3.50	8.50
Lyons Milling Co., Lyons, Kan.	8%	16.00	3.75	8.50
Lyons Milling Co., Burrton, Kan.	8%	16.00	3.75	8.50

ALFALFA MEAL.

Composed of the entire alfalfa hay, ground, and shall not contain an admixture of alfalfa straw or other foreign material.

Alfalfa Milling Co., Emporia, Kan.	15.50	1.85	27.00
Dodge City Mill, Elevator & Supply Co., Dodge City, Kan.	18.00	1.50	30.00
Excello Feed Milling Co., St. Joseph, Mo.	14.00	1.50	25.00
Garden City Milling Co., Garden City, Kan.	12.00	1.50	35.00
Lebanon Alfalfa Milling Co., Lebanon, Kan.	14.00	1.20	36.00
L. A. Ottaway, Wichita, Kan.	12.00	1.00	36.00
Salina Alfalfa Meal Company, Salina, Kan.	15.00	2.00	22.00
Sedgwick Alfalfa Mills, Sedgwick, Kan.	12.00	1.00	40.00
Sedgwick Alfalfa Mills, Valley Center, Kan.	12.00	1.00	40.00
Otto Weiss Milling Co., Wichita, Kan.	12.00	1.00	35.00

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Feeds registered up to September 1, 1917.

COTTONSEED MEAL AND CAKE.

Composed principally of the kernel of cottonseed with such portion of the hull as is necessary in the manufacture of oil and containing at least 36 percent of protein.

NAME AND ADDRESS OF MANUFACTURER AND NAME OR BRAND OF FEED.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Ardmore Oil & Milling Co., Ardmore, Okla. Cottonseed Cake and Meal	38.00	5.00	11.00
Buckeye Cotton Oil Co., Cincinnati, O. Buckeye Prime Cottonseed Meal	38.62	6.00	12.00
Buckeye Good Cottonseed Meal	36.00	5.00	14.00
Chickasha Cotton Oil Co., Kansas City, Mo. Chick-Atka Quality Cottonseed Meal or Cake	38.50	5.00	14.00
Chick-Homa Quality Cottonseed Meal or Cake	41.00	6.00	14.00
Choctaw Sales Company, Kansas City, Mo. Choctaw Quality Cottonseed Meal and Cake	43.00	6.50	10.00
Choctaw Standard Cottonseed Meal and Cake	41.00	6.00	12.00
Choctaw Prime Cottonseed Meal and Cake	38.62	5.00	14.00
Humphreys-Godwin Co., Memphis, Tenn. Danish Brand Cottonseed Meal	36.00	5.00	15.00
Dixie Brand Cottonseed Meal	41.00	5.50	10.00
Foriat Brand Cottonseed Meal	38.55	5.00	12.00
Jennings-Madden Feed Co., Kansas City, Mo. J. M. Brand High Grade Cottonseed Meal and Cake	43.00	6.00	12.00
J. M. Brand Choice Cottonseed Meal and Cake	41.00	6.00	12.00
Prime Cottonseed Meal and Cake	38.50	5.50	13.00
Kansas City Oil Mill, Kansas City, Kan Choice Cottonseed Meal and Cake	41.00	6.00	12.00
Special Quality Cottonseed Meal and Cake	43.00	7.00	12.00
Prime Cottonseed Cake	38.62	5.00	12.00
Osage Cotton Oil Co., Kansas City, Mo. Silo Brand Quality Cottonseed Meal and Cake	43.00	7.00	12.00
Silo Brand Quality Cottonseed Meal & Cake	38.50	5.00	14.00
Silo Brand Quality Cottonseed Meal and Cake	41.00	6.00	14.00
Silo Brand Cottonseed Meal and Cake	36.00	5.00	16.00
Texas Cake & Linter Co., Dallas, Tex. Interstate Brand Prime Cottonseed Meal and Cake	38.50	5.00	16.00
Sunset Brand Prime Cottonseed Meal and Cake	41.00	5.00	14.00
Texoma Brand Choice Cottonseed Meal and Cake	43.00	5.00	12.00
Panhandle Brand Prime Cottonseed Meal and Cake	36.00	5.00	19.00
Union Seed & Fertilizer Co., Fort Smith, Ark. American Red Tag Cottonseed Meal	38.62	6.00	11.50
Surety Brand Cottonseed Meal	36.00	5.50	14.00
Wootten-Burton Sales Co., Chickasha, Okla. Superior Quality Cottonseed Cake or Meal	43.00	6.00	9.00
Choice Quality Cottonseed Cake or Meal	41.00	6.00	10.50
Prime Cottonseed Cake or Meal	38.50	6.00	10.50

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Feeds registered up to September 1, 1917.

COLD PRESSED COTTON SEED.

Composed of the whole, undecorticated cottonseed, which has been subjected to cold pressure to remove the oil.

NAME AND ADDRESS OF MANUFACTURER AND NAME OR BRAND OF FEED.	GUARANTEE.		
	Percent of—		
	Protein not less than—	Fat not less than—	Fiber not more than—
Caddo Cotton Oil Co., Shreveport, La. Caddo Cold Pressed Cottonseed, Flake and Ground...	24 50	5 00	25 00
Humphreys-Godwin Co., Memphis, Tenn. Dixie Brand Cold Pressed Cottonseed	20 00	7 00	25 00
Osage Cotton Oil Co., Kansas City, Mo. Silo Brand Cold Pressed Cottonseed.....	25 00	6.00	23 00
Wootten-Burton Sales Co., Chickasha, Okla. Prime Cold Pressed Cottonseed.....	25.00	6 00	30.00

COTTONSEED FEED.

Composed of a mixture of cottonseed meal and cotton seed hulls.

Buckeye Cotton Oil Co., Cincinnati, O. "Bucc" Cottonseed Feed.....	20 00	3.50	27.00
Humphreys-Godwin Co., Memphis, Tenn. 77 Cottonseed Feed.....	20.00	4.00	23.00
Tennessee Fibre Co., Memphis, Tenn. Creamo Brand Cottonseed Feed.....	20.00	4.00	25.00
Union Seed & Fertilizer Co., New York, N. Y. Columbia Cottonseed Feed.....	20.56	3.00	25.00

LINSEED MEAL.

Composed of ground linseed oil cake made from flax seed which has been screened and cleaned of seeds by the most improved commercial process.

American Linseed Co., Sioux City, Ia. American Linseed Company Oil Meal	34.00	6.00	9.00
Archer-Daniels Linseed Co., Minneapolis, Minn. Old Process Ground Oil Cake	33.00	6.00	10.00
Fredonia Linseed Oil Works, Fredonia, Kan. Tiger Brand Linseed Oil Meal.....	31.93	8.00	7.00
Midland Linseed Products Co., Minneapolis, Minn. Midland Brand Pure Old Process Ground Linseed Cake...	32.00	5.00	9.50
Minnesota Linseed Oil Co., Minneapolis, Minn. Ground Linseed Cake, Old Process.....	34.00	5.00	11.00
Northern Linseed Oil Co., Minneapolis, Minn. Pure Ground Linseed Cake.....	33.00	6.00	9.00

DRIED BEET PULP.

Composed of residue of sugar beets, dried after extraction of sugar.

Larowe Milling Co., Detroit, Mich.....	8.00	0.50	20.00
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Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

PACKING HOUSE BY-PRODUCTS.

Composed of the following ingredients only.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Armour Fertilizer Works, Chicago, Ill.				
Granulated Bone.....	Bone granulated.....	23.00	2.00	2.00
Blood Meal.....	Granulated blood.....	80.00	.....	2.00
Meat Scrap.....	Meat residue.....	60.00	6.00	2.00
Meat Meal.....	Meat residue.....	60.00	6.00	2.00
Cudahy Packing Co., Chicago, Ill.				
Blue Ribbon Meat Meal.....	Meat residue.....	60.00	10.00	3.00
Darling & Co., Chicago, Ill.				
Darling's Meat Crisps.....	Meat products.....	75.00	0.50	3.00
Jacob Dold Packing Co., Wichita, Kan.				
Dold's Digester Tankage.....	Meat product.....	60.00	8.00	3.00
Dold's Ground Bone.....	Animal Bone.....	25.00	2.00	1.50
Meat Scraps.....	Animal product.....	50.00	5.00	3.00
Swift & Co., Denver, Colo.				
Swift's Blood Meal.....	Pure dried blood.....	80.00	.....	3.00
Swift's Digester Tankage.....	Meat Residues.....	60.00	6.00	3.00
Swift's Meat Meal.....	Meat residues.....	46.00	6.00	3.00
Swift's Meat Scraps.....	Meat residues.....	50.00	8.00	3.00
Swift's Poultry Bone.....	Pure ground bone.....	25.00	2.00	3.00
Swift's Soluble Blood Flour.....	Pure dried blood.....	80.00	.....	3.00
Swift & Co., Kansas City, Kan.				
Swift's Blood Meal.....	Pure dried blood.....	80.00	.....	3.00
Swift's Digester Tankage.....	Meat residues.....	60.00	6.00	3.00
Swift's Meat Meal.....	Meat residues.....	46.00	6.00	3.00
Swift's Meat Scraps.....	Meat residues.....	50.00	8.00	3.00
Swift's Poultry Bone.....	Pure ground bone.....	25.00	2.00	3.00
Swift's Soluble Blood Flour.....	Pure ground blood.....	80.00	.....	3.00
Swift & Co., St. Joseph, Mo.				
Swift's Blood Meal.....	Pure dried blood.....	80.00	.....	3.00
Swift's Digester Tankage.....	Meat residues.....	60.00	6.00	3.00
Swift's Meat Meal.....	Meat residues.....	46.00	6.00	3.00
Swift's Meat Scraps.....	Meat residues.....	50.00	8.00	3.00
Swift's Poultry Bone.....	Pure ground bone.....	25.00	2.00	3.00
Swift's Soluble Blood Flour.....	Pure ground blood.....	80.00	.....	3.00
Wilson & Co., Kansas City, Kan.				
Wilson's High Protein Tankage,	Meat residue, animal bone, 15% bone phosphate of lime..	60.00	8.00	3.00
Wilson's Blood Meal.....	Dried ground animal blood...	87.00	.....	1.00
Wilson's High Protein Meat Scrap.....	Meat residue and animal bone, 15%.....	50.00	10.00	3.00
Wilson's Poultry Bone.....	Animal bone.....	25.00	3.00	1.00
Chas. Wolf Packing Co., Topeka, Kan.				
Meat Meal.....	Meat scraps, hog livers, kidneys, melts and stomachs..	65.00	12.00	1.50

Feeds registered up to September 1, 1917.

MIXED FEEDS.*

Composed of the following ingredients only.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
P. J. Akins, Pittsburg, Kan. Akin's Mixed Feed	Corn chop, bran, shorts and screenings	12 00	4 00	10 00
John Bannerman, Topeka, Kan. Mixed Feed	Bran and corn chop	11.63	3 90	5 90
T. A. Beck, Topeka, Kan. Bran and corn chop	Ground corn and bran ..	13.00	4.00	6 50
J. B. Billard, No. Topeka, Kan. Mixed Bran and Chop	Ground corn and wheat bran..	12 00	4 00	7 00
Blatchford's Calf Meal Factory, Waukegan, Ill. Blatchford's Pig Meal	Bean and locust bean meal, linseed oil, oat meal, blood flour, wheat flour, barley meal, re-cleaned cottonseed meal, rice polish, corn meal, cocoa shell meal, crushed flax- seed, anise, salt and bran meal.	18.00	5 00	7 00
Blatchford's Calf Meal ..	Locust bean meal, un- pressed flaxseed, wheat flour, blood flour, barley meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, coconut meal, re-cleaned cottonseed meal, foenugreek, dried milk, anise and salt	24.00	5 00	6 75
Geo. M. Bowen, Independence, Kan. Mixed Feed	Bran, corn chop, and corn bran	12.72	3 86	7 00
The Bowen Milling Co., Elk City, Kan. Mixed Feed	Wheat bran, screenings, corn bran, shorts, not over 10% corn bran, and not over mill run or 8% screenings ..	16.00	3.50	3 50
Brooks Wholesale Co., Fort Scott, Kan. Brooks Best Horse Feed	Oats, corn chop, bran, shorts, oil cake meal	12.00	3.50	10 00
Brooks Best Calf Meal	Oatmeal, wheatmeal, corn, flaxseed, dried casein, cotton- seed meal, ½ of 1% bicarbo- nate of soda	19.00	8 00	3 00
Brooks Best Dairy Feed	Corn gluten feed, wheat bran, shorts, oil cake meal, corn, cottonseed meal	18.00	4 00	12 00
Chanute Grain Co., Chanute, Kan. Just-Rite Mixed Feed	Corn chop, wheat bran, and oats	11 41	2.51	11 00
D. O. Coe, Topeka, Kan. Mixed Feed	Bran and chop	11 00	3 50	7 00

*When molasses is used, the kind to be specified on the label.

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

MIXED FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Corn Products Refining Co., New York, N. Y. Diamond Hog Meal	Corn oil cake meal	18.00	7.00	13.00
Cowgill & Hill Milling Co., Carthage, Mo. Peacock Mixed Feed	Wheat bran, wheat shorts, wheat screenings not exceed- ing mill run 8%	15.00	3.50	8.50
Dockum & Whitaker, Garden City, Kan. Ideal	Oats, coarse cracked corn, milo, kafir, feterita or mix- tures thereof	10.50	6.50	3.00
Lxsel	Wheat bran and corn chop	11.00	3.50	5.00
Bestever	Corn chop, bran and cotton- seed meal	15.25	5.00	5.50
Chico	Corn chop, bran and cotton- seed meal	16.00	5.00	4.50
Gold Coin	Corn chop, bran and cotton- seed meal	17.00	4.50	6.00
Excello Feed Milling Co., St. Joseph, Mo. Excello Hog Feed	Corn germ meal, wheat shorts, ground wheat screen- ings, digester tankage, humus, and molasses	21.50	3.00	6.00
Excello Cattle Fattener	Corn chop, cottonseed meal, wheat bran, alfalfa meal, flax screenings, cane molasses	12.00	3.00	12.00
Reliable Dairy Feed	Alfalfa meal, cottonseed meal, corn germ meal, wheat bran, ground wheat screenings, 19%, beet molasses, salt	14.00	3.00	15.00
Excello Dairy Feed	Fine ground corn, cotton- seed meal, wheat bran, alfalfa meal, salt flax screenings and molasses	14.00	3.00	15.00
Excello Horse Feed	Alfalfa meal, corn chop, crushed oats, molasses, lin- seed meal and salt	10.00	3.00	15.00
Excello Molasses Feed	Alfalfa meal and molasses	9.00	1.00	25.00
Reliable Horse Feed	Alfalfa meal, corn chop, oats, molasses and salt	10.00	3.00	15.00
Reliable Molasses Feed	Alfalfa meal and molasses	9.00	1.00	25.00
Sho-Me Horse Feed	Alfalfa meal, ground corn, oats, cane molasses and salt	9.00	2.00	17.00
Fredonia Linseed Oil Works, Fredonia, Kan. Fredo Alfalfa Molasses Feed	Molasses, (cane or beet) and alfalfa	12.00	1.00	25.00
Fredo Horse Feed	Ground alfalfa, corn chop, oats and molasses, (New Orleans cane)	11.50	1.50	21.00
Fredo Special Fattener	Molasses, (cane or beet), corn, linseed oil meal, bran and grain screenings	12.00	5.50	3.00
Fredo Special Dairy Feed	Corn chop, wheat bran, lin- seed oil meal, 40% ground screenings from flax and other grains and molasses, (New Orleans cane)	12.00	5.50	10.00

Feeds registered up to September 1, 1917.

MIXED FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
G. P. Gill, Topeka, Kan. Bran, Screenings and Corn Chop.....	Bran, screenings and corn chop.....	13 00	4 00	6 50
Grain Belt Mills Co., St. Joseph, Mo. "Greenleaf" Alfalfa Molasses Feed.....	Alfalfa meal, molasses and to 1% salt.....	10.00	0.75	25.00
"Bronco" Horse and Mule Feed.....	Corn, oats, alfalfa meal, molasses and ½ to 1% salt..	10.00	1 50	15.00
"Pennant" Horse and Mule Feed.....	Corn, oats, alfalfa meal, molasses and ½ to 1% salt..	10.00	1.00	18.00
"Gee-Bee" Cattle Fattener.....	20% ground screenings, humus 5%, corn meal, alfalfa, molasses, cottonseed meal, cracked corn and ½ to 1% salt.....	11.00	2 50	6 00
Thos. Hatfield, Valley Falls, Kan. Stewart's Feed.....	Crushed oats, wheat shorts, corn chop ground separately...	8.00	4.00	5 00
Hess Feed Store, Hutchinson, Kan. Hess Horse Fattener.....	Corn, oats, bran, shorts, alfalfa meal, salt, oil meal, condition powder.....	16.00	4.00	8.25
Independent Milling Co., Kingman, Kan. Mixed Feed.....	Wheat bran, wheat shorts and corn chop.....	10.00	5.50	7 00
Jones Milling Co., Wichita, Kan. Jones Mixed Feed.....	Chop, wheat bran, and not over 10% corn bran.....	10.50	3 50	7 30
Kornalfalfa Feed Milling Co., Kansas City, Mo. Klimax Horse and Mule Feed..	Corn, oats, alfalfa, and cane or beet molasses.....	9.00	1 50	15.00
Kornalfalfa Kandy Feed.....	Corn, oats, alfalfa, cane, beet or cane molasses.....	9.00	1.50	12.00
K. C. Alfalfa Molasses Feed..	Alfalfa and cane, beet or cane molasses.....	9.00	1.00	25.00
D. J. McCarthy, Emporia, Kan. Cunningham Mixed Feed.....	Corn chop and wheat bran...	12.00	3.00	6.00
R. C. McKinney, Iola, Kan. Max Mix.....	Corn chop, bran and screenings, shorts, corn bran, 5%, oats and oil meal.....	14.16	4.11	7.39
Nelson Grain Co., Kansas City, Mo. Alpha-Meal-O Horse & Mule...	Alfalfa, molasses, corn, oats salt.....	10 00	2.50	15.00
Alpha-Meal-O.....	Alfalfa meal and molasses.....	9.00	1.00	25.00
Peerless Mills, Wichita, Kan. Peerless Mills Mixed Feed.....	Corn chop, corn bran, wheat bran and not over 8% screenings.....	9.80	3 70	7 20

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

MIXED FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Prussian Remedy Co., St. Paul, Minn. Prussian Calf Meal	Charcoal, locust bean, oat meal, blood meal, corn meal, cottonseed meal, red dog flour, linseed meal, alfalfa flour, enugreek 1½%, anise seed ½%, lime ½%, rye middlings, cocconut meal, peanut meal and cocoa shells	25.00	5.50	5.50
Rea-Patterson Milling Co., Coffeyville, Kan. S. & P. Horse and Mule Feed .. S. & P. Cattle Feed	Corn, oats, alfalfa, molasses, cane or beet	9.00	2.50	12.00
	Alfalfa meal and molasses, cane or beet	9.00	1.00	25.00
Shellabarger Mill & Elevator Co., Salina, Kan. Mixed Feed	Standard wheat shorts, wheat bran and screenings, corn chop and not to exceed 5% corn bran	12.00	3.00	6.50
Tarkio Molasses Feed Co., Kansas City, Mo. Tarkio Molasses Feed	Canemolasses, finely ground bolted flax and grain screenings, wheat bran, ground corn barley, wheat screenings, and 2% charred humus	9.00	2.00	8.00
Tarkio Sugared Molasses Fattener	Cottonseed feed, southern cane molasses, bran, corn chop and 3% charred humus ..	17.00	2.50	16.75
H. C. Thompkins, Emporia, Kan. Mixed Feed	Bran, corn chop and shorts ..	14.00	5.50	8.00
U. S. Stock Food Co., Kansas City, Mo. Blue Bell Horse & Mule Feed .. Eagle Brand Alfalfa Molasses .. Milk-Maker Dairy Feed	Corn, oats, alfalfa meal, and molasses	10.00	2.50	15.00
	Alfalfa meal, cane, or beet molasses	10.00	1.00	20.00
	Cottonseed meal, alfalfa meal, chop, wheat bran, cane or beet molasses, and gluten meal	6.00	8.00	15.00
A. C. Van Camp, Agent, Council Grove, Kan. Van Camp's Mixture	Corn chop, bran and shorts ..	13.00	4.00	4.00
Otto Weiss Milling Co., Wichita, Kan. Otto Weiss Keepemfat	Crushed oats, corn chop and wheat bran	11.00	4.00	10.00
Otto Weiss Stock Feed	Alfalfa meal, corn chop, crushed oats, wheat bran, and 0.75% salt	11.00	3.00	14.00
Otto Weiss Sweet Feed No. 1 ..	Alfalfa meal and cane molasses.	9.00	1.50	25.00
Otto Weiss Sweet Feed No. 4 ..	Alfalfa meal, corn chop, crushed oats, wheat bran, 0.75% salt and cane molasses ..	10.00	2.00	15.00
Otto Weiss Sweet Feed No. 6 ..	Linseed oil meal, wheat bran, corn chop and cane molasses	13.00	1.50	4.00

Feeds registered up to September 1, 1917.

MIXED FEEDS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Western Seed House, Salina, Kan. American Royal Horse and Mule Feed.....	Corn chop, oats, wheat mid- dlings, wheat bran, linseed oil- meal, alfalfa meal.....	12.50	4.00	9.00
West Side Mill, Wichita, Kan. Mixed Feed.....	Corn chop and wheat bran and screenings.....	12.00	4.00	5.00

POULTRY FEEDS.

Composed of the following ingredients only.

The Barteldes Seed Co., Lawrence, Kan. Barteldes Sunflower Chick Feed.	Corn chop, cracked kafir, cracked milo, cracked cane. cracked wheat, millet and not over 2% of grit.....	10.50	2.25	2.75
Barteldes Sunflower Hen Feed	Cracked corn, kafir corn, milo maize, wheat screenings, sunflower seed and not to exceed 1% of mica grit, oyster shell 1%.....	10.75	2.85	2.75
T. A. Beck, Topeka, Kan. Beck's Chicken Feed.....	Cracked corn, wheat, oats, kafir corn, 3% oyster shell, charcoal ¼%.....	11.00	2.75	3.50
Beck's Chick Food.....	Ground wheat, corn, kafir corn, bone, millet seed, 3% grit, 2% oyster shell and ¼% charcoal.....	10.00	3.00	5.00
Blatchford's Calf Meal Factory, Waukegan, Ill. Blatchford's Milk Mash.....	Blatchford's Calf Meal, barley, bone, corn, oatmeal, wheat, middlings, beef scraps, fish and powdered limestone..	20.00	4.00	7.50
Blatchford's "Fill the Basket" Egg Mash.....	Blatchford's Calf Meal, al- falfa, barley, bone, corn and oats meals, wheat bran, wheat middlings, beef scraps, fish, capsicum, powdered limestone.	19.00	4.00	10.00
Bowman Brothers, Logan, Kan. Logan Hen Food.....	Corn, oyster shell not over 5%, not over 10% screenings, bran, and sunflower.....	9.50	3.00	5.00
Brooks Wholesale Co., Fort Scott, Kan. Brooks Best Hen Feed.....	Wheat, corn, oats, kafir, sunflower seed.....	10.00	2.50	10.00
Brooks Best Chick Feed	Corn, wheat, kafir, millet....	10.00	2.00	5.00
The Chase Wholesale Co., Topeka, Kan. Special Hen Feed.....	Wheat, corn, kafir, buck- wheat, sunflower seed, oyster shell 2%, charcoal ½%.....	9.50	2.90	3.50
No. 2 Hen Feed.....	Wheat, corn, kafir, buck- wheat, wheat screenings, clam shell 8%.....	8.00	2.00	5.00
Success Chick Feed.....	Wheat, corn, millet, kafir, Pearl grit 4%, charcoal 1%...	10.00	3.50	3.50
Success Hen Feed.....	Wheat, corn, kafir, buck- wheat, sunflower seed, char- coal ½%.....	10.50	3.25	3.50

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

POULTRY FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
D. O. Coe, Topeka, Kan. Kansas Chick Food.....	Wheat, corn, kafir, millet, not over 5% grit, Lima shell grit, screenings not over 35%.	10.00	3.50	6.50
Chick-O.....	Kafir, corn, wheat, millet seed, rape seed, steel cut oats, charcoal screenings not to exceed 20%, Lima shell grits not over 4%.	10.00	3.50	6.00
J. C. Cooper, Lincoln, Kan. Cooper's Chick Food.....	Wheat, Corn, kafir, millet, charcoal, grit and beef scraps, not over 7% grit	13.00	3.80	4.00
Excello Feed Milling Co., St. Joseph, Mo. Excello Chick Feed.....	Wheat, corn, kafir, millet, bone meal, milo maize and grits (1% Cryscro grits)	10.00	3.00	6.00
Excello Hen Feed.....	Wheat, corn, kafir, sunflower seed, milo maize, either with or without grits (5% Cryscro grits)	10.00	3.00	6.00
Reliable Hen Feed.....	Wheat, corn, kafir, milo, and barley	10.00	3.00	6.00
Reliable Chick Feed.....	Wheat corn, kafir, milo, millet,	10.00	3.00	6.00
Frizell & Smith, Halstead, Kan. Frizell & Smith's Hen Feed....	Cracked corn, shell, kafir corn, wheat, millet, oats, beef scraps, milo, feterita	9.00	2.50	3.50
Great Bend Seed & Produce Co., Great Bend, Kan. Excelsior Chick Feed.....	Oat meal, sunflower seed, corn, wheat screenings, millet, kafir corn, rice, meat, rape, bone, charcoal ¼ lb. to cwt., (Cryscro 8%)	9.00	3.00	5.00
Excelsior Hen Feed.....	Kafir, corn, wheat screenings, cane, oats, barley, sunflower, meat, buckwheat, Cryscro grit 5%, charcoal ¼ lb. to cwt., maize	9.00	3.00	6.00
Hess Feed Store, Hutchinson, Kan. Hess Poultry Feed.....	Corn, oats, wheat, kafir	12.80	2.90	2.95
Hillsboro Roller Mills, Hillsboro, Kan. Hen Feed.....	Corn, oats and 83 1-3% wheat screenings	11.00	3.00	6.00
The Independent Milling Co., Kingman, Kan. Chick Food.....	Corn meal, millet, wheat screenings, grit not to exceed 5%, grit (oyster shell)	10.00	3.50	5.00
Poultry Food.....	Grit not to exceed 5% (oyster shell), corn meal, millet, wheat screenings, corn chop, oats, kafir, meat meal, bone meal and cane seed	10.00	3.50	5.00

Feeds registered up to September 1, 1917.

POULTRY FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Jones Milling Co., Wichita, Kan. Jones Chick Feed	Wheat, kafir, millet, hulled oats, corn and ground bone . . .	9.50	2.30	3.80
Jones Hen Feed	Wheat, corn, kafir, oats, sunflower seed	9.50	2.50	3.80
Jones Dry Mash	Meatmeal, bone meal, char- coal, alfalfa meal, oil meal, ground corn, shorts bran, charcoal, salt 1%	17.00	4.00	9.50
Kelso Grain Co., Cherokee, Kan. Hen Feed	Kafir, milomaize, cane, corn, wheat, not over 5% wheat screenings	9.54	3.50	2.58
Chick Feed	Corn, kafir, milo maize, cane and millet	9.54	3.50	2.58
Kimball Milling Co., Rosedale, Kan. Globe Scratch Feed	Wheat, screenings, cracked corn, kafir corn, not more than 8% petrified shell	10.00	2.30	4.00
Mixed Hen Feed	Cracked corn, wheat, kafir corn and oats	13.00	2.50	4.00
Prepared Chick Feed	Cracked corn, wheat, screen- ings, kafir corn and oats	13.00	2.50	4.00
Knoche Poultry Food & Cereal Co., Rosedale, Kan. Prize Winner Chick Food	Corn, milo maize, kafir corn, cane, millet seed	9.00	3.40	8.00
Prize Winner Hen Food	Wheat, corn, oats, grain sorghum, sunflower seed	8.50	3.00	7.00
Blue Label Hen Food	Cracked corn, wheat screen- ings, grain sorghum, oats and sunflower seed	10.00	3.00	3.00
Kornfalfa Feed Milling Co., Kansas City, Mo. Kluk Chick Feed	Wheat, corn, kafir, milo, and millet seed	10.00	3.50	4.00
Kluk Scratch Feeds	Wheat, corn, kafir, milo, buckwheat and sunflower seeds	10.00	3.25	4.50
Loveland Milling Co., Wichita, Kan. Doc. Loveland's Chick Feed	Corn, wheat, oat meal, kafir, bone, meat scraps, 1% char- coal	10.00	3.00	4.00
Doc. Loveland's Hen Feed	Wheat, corn, oats, kafir, sunflower seed 1%	9.50	3.00	4.00
Mangelsdorf Brothers Co., Atchison, Kan. Reliable Poultry Feed	Wheat, corn, kafir corn, milo maize, sunflower, buck- wheat, oats, rice screenings not to exceed 30% and wheat screenings not to exceed 30%	10.50	3.00	6.00
Challenge Brand Chick Feed	Wheat, corn, kafir corn, milo maize, cane, millet seed, alfalfa screenings, not to ex- ceed 10% and wheat screen- ings not to exceed 30%	10.50	3.00	6.00
Masquelier & Salvini, Arma, Kan. Hen Feed	Ground wheat chop, kafir corn, oats and wheat screen- ings	10.00	3.00	3.00

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

POULTRY FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Nelson Grain Co., Kansas City, Mo. Imperial Little Chick	Kafir grits or milo grits, corn grits, wheat grits and screenings, millet seed	10.00	3.00	3.20
Imperial Scratch Feed (Hen Size)	Corn, kafir corn, wheat screenings 8%, milo maize, cane, oats, sunflower seed	10.00	3.00	3.20
Ochas Grain Co., Hoisington, Kan. Hoisington Laying Food	Wheat, kafir, cracked corn, oats, not more than 2% char- coal, 2% shells, 1% mica, 2% Cryseo, bone, sunflower, hemp, buckwheat and meat scraps	14.00	2.85	3.75
Golden Belt Brand Chick Food	Corn chop fine, cracked kafir, cracked cane, wheat screenings, millet, Cryseo grit 1%, charcoal 1/4% and bone meal	10.50	3.00	3.50
Pease Grain & Seed, Co., Beatrice, Neb. Pease Chick Chop	Kafir corn, millet, wheat, Indian corn, sorghum seed and 5% Cryseo grit	11.60	2.60	4.00
Pease Hen Chop	Kafir corn, wheat, barley, milo maize, Cryseo grit 5%, corn and sorghum seed	11.60	2.60	4.00
Pease's Picnic Food	Kafir corn, millet, wheat, Indian corn, bone, meat scraps, sorghum seed and 5% Cryseo grit	15.20	3.10	4.00
Peerless Mills, Wichita, Kan. Peerless Mills Hen Feed	Wheat, corn, kafir, oats and sunflower seed	9.80	2.80	3.90
Peerless Mills Chick Feed	Wheat, kafir corn and millet	9.00	2.00	5.00
The Pittsburg Elevator Co., Pittsburg, Kan. Peco Chick Feed	Chop, sorghum, cryseo 2%, wheat, millet and charcoal 1/4%	10.00	3.50	5.00
Peco Hen Feed	Chop, sorghum, wheat, oats, Cryseo grit 3 1/4%, charcoal 1/4% and sunflower seed	12.00	3.50	5.00
Ralston Purina Co., St. Louis, Mo. Purina Chicken Patena	Wheat middlings, ground oats, ground corn, kafir meal, barley meal, linseed meal and ground sunflower seed	9.00	5.00	9.00
Purina Chick Feed	Wheat, corn, millet, kafir, and milo maize	10.00	2.50	4.00
Purina Chowder Feed with Charcoal	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, not over 1% salt	19.00	4.00	9.00
Purina Pigeon Feed	Wheat, millet, kafir, milo maize and Canada peas	11.00	2.50	4.00
Purina Scratch Feed	Wheat, corn, barley, kafir, milo maize, sunflower	10.00	2.50	4.00
Randle Coal Co., Hutchinson, Kan. Randle Chick Feed	Cracked wheat, cracked kafir, blood meal, rape, millet, oyster shell, bone meal	10.00	2.00	4.00

Feeds registered up to September 1, 1917.

POULTRY FEEDS—CONTINUED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Rudy-Patrick Seed Co., Kansas City, Mo. Every-Day Scratch Feed . . .	Corn, kafir corn, milo, maize, wheat, Cryseo grit 8%, sunflower seed, barley, and oats.	8.50	3.00	7.00
Royal Family Scratch Feed . . .	Corn, kafir corn, milo maize, wheat, sunflower seed, barley and oats.	10.00	2.50	3.00
Special Every-Day Scratch Feed.	Corn, kafir corn, grit, milo maize, barley, wheat, sunflower seed, oats and Cryseo grit.	8.50	3.00	7.00
Every-Day Special Chick Feed.	Wheat, corn, kafir corn, milo maize, cane and millet seed, Cryseo grit 8%, and wheat screenings.	9.00	3.45	8.00
Royal Quality Chick Feed . . .	Corn, kafir corn, milo maize, wheat and millet seed, cane and wheat screenings.	10.00	3.00	8.00
Every-Day Chick Feed	Corn, kafir corn, milo maize, wheat, cane and millet seed and 8% wheat screenings.	9.00	3.45	8.00
E. R. Sanner, Newton, Kan. Sanner's O. K. Scratch Feed	Cracked corn, wheat, kafir milo, oats, sunflower, not over 10% wheat screenings.	9.00	2.00	5.00
Sanner's Poultry Mash	Wheat bran and screenings, corn meal, meat scrap, oil meal, charcoal, Lee's egg maker, corn bran not to exceed 10%, shorts.	15.00	3.00	12.00
Sanner's Chick Feed	Millet, kafir, corn, and wheat, wheat screenings, 10%.	9.00	2.00	5.00
Sanner's Scratch Feed	Cracked corn, oats, wheat, wheat screenings, 10%, kafir and sunflower seed.	9.00	2.00	5.00
Sanner's O. K. Chick Feed	Corn, wheat, milo, kafir, millet and not over 10% wheat screenings.	9.00	2.00	5.00
Schilling Grain Co., Kansas City, Kan. Chick Scratch	Cracked corn, wheat, kafir, milo maize and millet seed.	10.30	2.90	2.30
Hen Scratch	Cracked corn, wheat, kafir, milo maize, buckwheat, and sunflower seed.	10.30	2.90	2.30
Snyder, Stephen D., Hiawatha, Kan. Hen Feed	Kafir, wheat, cane seed, spelts and oats, a little cracked corn.	9.00	3.50	5.50
Solomon Valley Milling Co., Kansas City, Kan. O. K. Hen Feed	Wheat, corn chop, kafir corn, wheat screenings 10%.	10.30	3.50	3.50
O. K. Chick Feed	Wheat screenings 3%, corn chop, kafir corn.	10.30	2.30	4.40
Victor Scratch Feed	Corn chop, wheat screenings, kafir, oats and Cryseo grit.	10.00	3.00	3.50
Square Deal Seed Co., Coffeyville, Kan. Browne's Chick Feed	Cracked corn, wheat, kafir corn, millet, bone meal, charcoal and grit, 2%.	10.00	3.00	3.50
Browne's Scratch Feed	Chop, wheat, kafir corn, oats, sunflower seed, oyster shells 2%, beef scraps and corn.	11.76	2.94	5.22

Feed Registration Under Kansas Law.

Feeds registered up to September 1, 1917.

POULTRY FEEDS—CONCLUDED.

NAME AND ADDRESS OF MANUFACTURER.	Composed of the following ingredients only.	GUARANTEE.		
		Percent of—		
		Protein not less than—	Fat not less than—	Fiber not more than—
Stauffer-Cammack Grain Co., Columbus, Kan. S. C. Grain Co. "Hen Feed"	Mussel shell 2%, chop, wheat, kafir, oats, charcoal, and sunflower seed.....	10.00	4.00	4.00
Sulzberger & Sons Co., Chicago, Ill. Sulzberger's Poultry Bone.....	Animal bone.....	25.00	3.00	1.00
Tucker Seed House, Carthage, Mo. Special Chick Feed.....	Wheat, corn, kafir corn, millet seed, charcoal, granulated bone, wheat screenings, flax seed.....	11.50	3.40	4.50
Special Scratch Feed.....	Corn, wheat, kafir corn, barley, sunflower, charcoal, flax seed, granulated bone, milo.....	11.50	3.40	4.50
Otto Weiss Milling Co., Wichita, Kan. Otto Weiss Poultry Mash.....	Alfalfa meal, blood meal, oil meal, wheat bran, wheat shorts, fine ground corn, charcoal, Cryscoc grit 3% and bone.	14.00	3.00	8.00
Otto Weiss Chick Feed.....	Cracked kafir, corn, milo, wheat, and seed, rolled oats, millet, meat scraps, Cryscoc grit 5%.....	10.00	2.00	5.00
Otto Weiss Hen Feed.....	Cracked corn, kafir corn, oats, wheat screenings, cane seed, barley and Cryscoc grit..	10.00	3.00	3.00
J. Welch & Sons, Leavenworth, Kan. Laying Scratch Feed.....	Wheat, corn chop, kafir corn, whole corn, oats.....	11.00	2.50	2.48
West Side Mill, Wichita, Kan. Mixed Hen Feed.....	Wheat, corn, oats and kafir...	9.00	3.00	4.00
Western Seed House, Salina, Kan. Imperial Hen Food.....	Cracked corn, wheat screenings, oats, kafir, buckwheat, hemp, sunflower seed, meat scraps, charcoal not over 1%, pearl grit not over 20%.....	8.50	2.00	4.50
Salina Laying Food.....	Bran, shorts, corn chop, oats, wheat screenings, alfalfa meal, meat meal, charcoal not over 1%, oil meal, blood meal, sunflower seed, hemp, kafir, salt not over 3%, Conkey's Laying Tonic, pearl grit not over 15%.....	12.00	2.00	7.00
Salina Chick Food.....	Corn, kafir, wheat screenings, hemp, rape, charcoal not over 1%, meat meal, pear grit not over 20%.....	10.00	3.00	5.00
Young & Sons, Hutchinson, Kan. Young's Chicken Feed.....	Kafir, milo, cracked corn, wheat, and not to exceed 5% grit cane and millet.....	8.00	3.00	6.00
Young's Chick Food.....	Cracked kafir, milo maize, wheat, cane and millet seed, corn and grit not over 5%...	9.00	3.00	6.00