

AGRICULTURAL EXPERIMENT STATION.
KANSAS STATE AGRICULTURAL COLLEGE.

FEED CONTROL SECTION.

**The Kansas Feeding-stuffs Law—Revision of 1913;
Amended 1915.**

REGULATIONS AND EXPLANATIONS.

FEEDS THAT DO NOT REQUIRE REGISTRATION AND LABEL.

1. Whole seeds or grains.
2. Whole hays, straws, and corn stover, when not mixed with other material.
3. All other material containing 60 per cent or more of water.

FEEDS THAT MUST BE REGISTERED AND LABELED.

1. All feeds except those mentioned above require registration and label. Some of the common feeds requiring registration and label 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, etc.

INFORMATION REQUIRED UPON THE LABEL.

1. Name and principal address of person or firm responsible for placing the feed upon the market.
2. Minimum *net* weight of the contents of the package.
3. Name, brand or trade-mark of the feed.
4. The guaranty:
 - Protein, not *less* than. ———per cent.
 - Fat, not *less* than. ———per cent.
 - Crude fiber, not *more* than. . . ———per cent.
5. The specific name of each ingredient used in manufacturing the feed. (In case any adulterant mentioned in section 12 of the law is added to the feed, the maximum per cent must

be stated upon the label. In this connection 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.

I. X. L. FEED.

Composed of

Alfalfa, Corn Chop, Kafir Chop, Wheat Bran,
and not over 5 per cent of Corn Bran.

GUARANTY.

Protein, not less than.....	14.5%
Fat, not less than.....	3.7%
Crude fiber, not more than.....	20.3%

Manufactured by

JOHN DOE MILLING COMPANY,
Doeville, Kan.

WHEN REGISTRATIONS EXPIRE,

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

TONNAGE TAX.

A tax tag or stamp purchased from the Feed Control Section must be attached to each package, lot or parcel of the following feeds: All poultry foods, or the feeding-stuff by-products of starch factories, glucose factories, cereal breakfast-food factories, breweries and distilleries, meat-packing establishments, or slaughterhouses. *No registration fee* is required on these products. However, each application for registration *must be accompanied* by an order for \$5 worth of tags for each brand offered for registration. If it is desired that tags or labels be sent by mail, postage must be included in the order.

REGISTRATION FEE.

1. Flour mills having capacity to manufacture more than 300 barrels of flour in each twenty-four hours are required to pay an annual registration fee of \$10 for each brand of feeding-stuff sold in this state.
2. Flour mills having capacity to manufacture more than 50 barrels and not to exceed 300 barrels of flour in each twenty-four hours are required to pay an annual registration fee of \$8 for each brand of feeding-stuff sold in this state.
3. Flour mills having capacity to manufacture not to exceed 50 barrels of flour in each twenty-four hours are required to

pay an annual registration fee of \$3 for each brand of feeding-stuff 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 manufacturing 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.

6. It is also provided that any firm or person registering any chops or corn bran and paying 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 said chops or corn bran sold within the state during the past fiscal year.

CHANGES IN COMPONENTS OR IN GUARANTY.

Before any changes can be made in the components or in the guaranty of any registered feed, application for permission to make such change must be made to the Feed Control Section. If the reasons given for making the change are deemed satisfactory, permission will be granted.

DEFINITION OF THE TERM "BRAND."

1. The term 'brand,' as used in this act, is to be taken to mean: First, the name, trade-mark or other designation under which a commercial feeding-stuff is sold; and second, the feeding-stuff itself."

It should be noted that separate registration will be required upon the various brands or grades of shorts.

COMMERCIAL FEED DEFINITIONS AND STANDARDS.

1. *Pure Wheat Bran* shall consist of the coarse outer coating of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling. *Standard guaranty* which should be equaled: Minimum protein, 14.5 per cent; minimum fat, 3.5 per cent; and maximum crude fiber, 10 per cent.

2. *Wheat Bran and Screenings* shall consist of the coarse outer coating of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling, plus the various impurities separated from the wheat during the cleaning process, and known collectively as *Screenings*. *Standard guaranty* which should be equalled: Minimum protein, 14.5 per cent; minimum fat, 3.5 per cent; and maximum fiber, 10 per cent.

3. *Standard Wheat Shorts* shall consist 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. *Standard guaranty* which should be equalled: Minimum protein, 16 per cent; minimum fat, 3.5 per cent; and maximum fiber, 5.5 per cent.

4. *Wheat Brown Shorts*, as compared with standard shorts, contain mostly the fine particles of bran and germ, and contain much less of fibrous offal obtained from the "tail of the mill." *Standard guaranty* which should be equalled: Minimum protein, 16 per cent; minimum fat, 3.5 per cent; and maximum fiber, 6.5 per cent.

5. *Wheat White Shorts*, as compared with standard shorts, shall contain 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." *Standard guaranty* which should be equalled: Minimum protein, 14.5 per cent; minimum fat, 3 per cent; and maximum fiber, 3.5 per cent.

If to any of the above brands of shorts there should be added, either ground or unground, bolted or unbolted, the various impurities separated from the wheat during the cleaning process, and known collectively as *Screenings*, the same shall be registered, labeled, and sold as Standard Shorts and Screenings, Brown Shorts and Screenings, or White Shorts and Screenings, as the case may be, and each must equal the standard guaranty required for the pure product.

Screenings shall 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.)

The word *Screenings* shall appear as part of the label or brand name that is required, and shall be printed in the same

size and face of type as the remainder of the label. For example, "WHEAT BRAN AND SCREENINGS," and not "WHEAT BRAN" and screenings.

6. *Pure Wheat Mixed Feed* shall consist of pure 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. *Standard guaranty* which should be equaled: Minimum protein, 16 per cent; minimum fat, 3.5 per cent; and maximum fiber, 8.5 per cent. The name of each ingredient—for example, pure wheat bran, pure standard wheat shorts—should also be given on the label. (This feed has commonly been known as Mill Run or Mill Run Bran.)

7. *Wheat Mixed Feed and Screenings* shall consist of the wheat bran and standard wheat shorts, to which have been added the various impurities separated from wheat during the cleaning process and known collectively as *Screenings*. The name of each ingredient—wheat bran, standard wheat shorts, and wheat screenings—and the maximum percentage of screenings shall appear on the label. *Standard guaranty* which should be equaled: Minimum protein, 16 per cent; minimum fat, 3.5 per cent; and maximum fiber, 8.5 per cent.

8. *Chop* shall be composed 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 of that cereal only.

9. *Corn Chop* shall be composed 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. *Standard guaranty* which should be equaled: Minimum protein, 9 per cent; minimum fat, 3.5 per cent; and maximum crude fiber, 3.5 per cent.

10. *Kafir Chop* shall consist of the entire grain removed from the head and chopped.

11. *Corn Bran* shall consist 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* is the entire alfalfa hay, ground, and shall not contain an admixture of ground alfalfa straw or other foreign materials.

14. *Linseed Meal* is 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* are 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, specially 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*.

CAUTION.

Careful observation of the following points will enable you to avoid more or less difficulty in registering your feeds and otherwise complying with the law:

1. Be sure to fill in carefully and properly all spaces on the application blank.
2. Do not register under firm name and then use some other name on the label.
3. In filling in name of brand, use the exact name which you expect to place upon your label. For example, do not register wheat shorts and then expect to sell "brown shorts," "white shorts" or "white middlings" under this registration.
4. Give the name of each ingredient used in making up the feed.
5. When the term "bran" is used without any qualifying word it will be assumed that it refers to *wheat* bran only.
6. 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 be forwarded for analysis.
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 guaranty of a feed for which a standard has been adopted show a less per cent of protein or fat or a greater per cent of crude fiber than the standard. (See table of feed standards.)

8. Manufacturers having difficulty in determining proper guaranties are invited to write to the Feed Control Section regarding this difficulty.

9. *Keep a record in your office of all feeds registered, together with their components and guaranties.*

10. Be sure that all feeds leaving your plant are properly registered and labeled.

11. 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.

12. The specific name of each ingredient must be stated on the label. In case the feed is adulterated with any 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 maximum amount of such adulterant must be stated upon the label.

13. All whole meals or chops must be registered and labeled.

APPLICATION BLANKS.

1. All applications for registration must be made on blanks furnished by the Feed Control Section. Each application must be accompanied by the necessary registration fee, made payable to the Feed Control Section, 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.

AFFIDAVIT BLANKS.

1. Blank forms for making affidavit as required by law governing registration of chop and corn bran will be furnished by the Feed Control Section upon request.

REGISTRATION SAMPLES.

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

COPY OF LABEL.

1. 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.

ANALYSIS OF SAMPLES.

1. If the manufacturer or seller desires the Experiment Station to make chemical analysis of sample to determine fat, protein and fiber required in the guaranty, this work will be done at the following rates: Charge for determining fat, \$2; protein, \$2; crude fiber, \$4; or all three for \$5. The Experiment Station does not guarantee that the analysis made of samples submitted by a manufacturer or seller is representative of the product sold by each manufacturer or seller. The Station merely guarantees that the composition of the sample submitted is as reported. Manufacturers and sellers taking samples for analysis should be extremely careful to secure a representative sample. Their attention is called to Caution 6 for directions in taking such samples.

Feed Standards.

	Protein. Not less than—	Fat. Not less than—	Crude Fiber. Not more than—
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%

CORRESPONDENCE.

1. All correspondence relating to the registration of feeding-stuffs should be addressed to the Feed Control Section, Experiment Station, Manhattan, Kan.

PURPOSE OF THE LAW.

1. The whole intent and 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 and paying for. 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 declaration of the manufacturer must be true to fact if the feed is registered. The inspection and analysis at frequent intervals informs the director of the Experiment Station of the reliability of the manufacturer's or seller's guaranty. If the feed does not come up to the guaranty the license will be revoked. The law is a protection, to the consumer, dealer, and manufacturer.

Table of Analyses of Mill Products at Kansas State Agricultural College, 1914-'15.—May 1, 1915.

COMMODITY.	Protein.			Fat.			Crude Fiber.			No. Samples.
	Maximum.	Minimum.	Average.	Maximum.	Minimum.	Average.	Maximum.	Minimum.	Average.	
Wheat bran.....	20.71	14.95	17.36	5.54	3.86	4.52	13.01	8.58	10.26	50
Wheat bran and screenings.....	20.01	15.05	17.68	5.55	3.76	4.52	13.62	8.97	10.76	101
Wheat bran and scourings.....	19.71	14.52	17.12	4.50	3.92	4.26	14.14	8.38	10.53	10
Corn bran.....	12.64	7.64	10.86	8.59	4.09	7.42	13.15	6.13	8.58	10
Standard shorts.....	22.50	14.85	19.25	5.80	2.18	4.57	8.75	2.11	5.57	101
Shorts and screenings.....	21.85	16.10	19.18	5.79	3.55	4.80	9.39	3.71	5.82	48
Shorts and scourings.....	19.66	17.15	18.41	5.40	3.40	4.40	7.08	3.20	5.14	2
Brown shorts.....	22.64	16.36	17.64	6.13	3.82	4.73	7.70	4.68	6.71	17
Brown shorts and screenings.....	20.45	20.22	20.34	5.62	5.44	5.54	9.71	7.15	8.21	3
White shorts.....	20.09	13.69	17.64	5.05	1.37	3.47	5.96	1.20	3.45	26
White shorts and screenings.....	19.91	15.05	18.63	4.90	2.48	3.96	6.49	1.86	4.49	17
Wheat mixed feed.....	19.70	16.94	17.89	5.25	4.31	4.73	10.68	8.24	9.08	10
Wheat mixed feed and screenings.....	19.40	16.24	18.15	5.22	3.48	4.63	12.61	6.74	9.05	29
Corn chop.....	12.72	8.62	10.38	6.06	2.76	3.93	3.80	1.65	2.29	192
Corn chop and corn bran.....	11.14	8.95	10.03	4.56	3.08	3.77	3.73	1.78	2.47	14
Kafir chop.....	15.09	11.50	13.16	4.41	2.94	3.59	3.65	1.63	2.67	18
Milo chop.....	12.02	10.31	11.25	3.43	3.22	3.32	2.27	1.92	2.08	3
Barley chop.....	15.09	13.08	13.84	2.35	1.70	2.05	8.18	5.43	7.23	5
Alfalfa meal.....	19.31	13.03	14.42	3.03	1.56	2.21	33.61	26.24	28.62	13
Hominy feed.....	13.16	11.00	13.82	9.73	7.38	8.77	7.72	4.12	5.83	5
Linseed meal.....	39.40	34.66	36.96	8.80	1.92	6.53	9.67	7.14	8.25	9
Cottonseed meal.....	48.11	38.05	45.09	11.09	6.60	8.12	16.53	7.20	14.45	26
Cottonseed cake.....	51.50	42.22	43.27	13.54	6.03	7.62	13.25	6.38	9.76	24
Cold pressed cottonseed.....	28.75	23.03	24.54	12.57	6.62	8.49	28.91	24.58	23.71	10

Approved:

W. M. JARDINE,
Director Agricultural Experiment Station.