

Kentucky Agricultural Experiment Station

UNIVERSITY OF KENTUCKY

THOMAS P. COOPER, Director

COMMERCIAL FEEDS IN KENTUCKY IN 1940

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The results of inspection and the analyses of official samples of commercial feedstuffs sold in Kentucky during 1940 are given in this bulletin.* The tonnage, estimated from the number of guaranty tags issued, 350,000 tons, was about the average for Kentucky in normal years. During the year, 1,452 samples were analyzed chemically and microscopically and the results reported in detail with appropriate comment to those concerned.

The results of analyses as a whole showed that manufacturers met their guaranties well and deficiencies mostly were of a minor nature. It must be said, however, that the products of some manufacturers making low-grade filler feeds and of many small mills making wheat feeds are very poor. The records of these concerns are given in the summary of results in the latter part of this bulletin, and the individual concerns violating the law have been dealt with directly by the Department.

* Acknowledgment is duly made to Robert Mathews and Fred W. Fitschen, inspectors, for the efficient and painstaking manner in which they made inspection and took samples for analysis.

LOW-GRADE FEEDS

Many low-grade feeds are offered for sale in Kentucky. Because of their competitive nature, these feeds contain the cheapest and trashiest fillers that can be obtained, such as screenings, screenings refuse, weed seeds, hulls, chaff, waste by-products and highly fibrous materials.

The Feed Control Department tries in several ways to protect the feeder from the loss that usually results from buying and using these low-grade feeds.

First, telling the feeder that filler feeds are usually uneconomical and are the costliest feeds he can buy. They are uneconomical and costly because of their low productiveness as compared with high-quality feeds and because of the chance taken with the health of the animals when such feeds are used.

Second, establishing minimum chemical standards for straight byproduct feed materials and special-purpose feeds. The minimum allowed for protein is sufficiently high to assure a reasonable amount and, thereby, to indicate a desirable source. The minimum allowed for fat requires the use of materials that have not been degermed, and excludes excessive fillers of low fat content. The standard for fiber excludes excessive fillers and materials of a highly fibrous nature, and assures a high percentage of nitrogen-free extract. These standards were established for the purpose of protecting the feeder by requiring reasonable percentages of desirable protein and fat and by excluding or limiting the use of highly fibrous materials or fillers of various sorts having little or no feed value. The standards are adjusted from time to time when the need is indicated by experimental evidence.

Third, establishing a system of labeling to mark conspicuously certain important differences in the character of feeds, thereby making it easier for the purchaser to select feeds on the basis of their real value. A farmer who buys feeds intelligently must read and be guided by the information on the state tags or labels. The system of labeling will aid him materially. (See system of labeling, page 5.)

THE FEEDER'S PROBLEM

A feeder often has to select his feed under varying conditions. The cost of the feed as compared with the market prices of his produce such as milk, eggs, meat, and wool is an essential matter to be considered. At the same time he must know what his animals need and what feeds will supply these needs, if he is to succeed in his livestock enterprise. Publications of the Agricultural Experiment Station and of the Agricultural Extension Service are helpful in this connection.

The feeder has several aids to guide him in selecting a feed. He should never buy a feed that is not registered and labeled with an official guaranty tag. He should read the tag carefully and base his selection on the information in the guaranty rather than on the claims made by the salesmen. If a feed is not labeled, he should refuse to accept it regardless of any claims made for it. He can also safeguard himself by buying from reputable manufacturers who have good records and make good, clean feeds. He should look with suspicion on all yellow-tag feeds, as such feeds contain fillers of little or no feed value. Such fillers sometimes contain poisonous weed seeds, fungi, and inert material such as sand and dirt, and may therefore be dangerous. As a general rule, a feed containing a complex vitamin and mineral mixture is to be avoided, because a long list of materials has no particular merit and needed vitamins and minerals usually can be supplied at lower cost in simple materials.

The Feed Control Department constantly makes check analyses of feeds sold in Kentucky. The results are summarized and published with other valuable data on feeds and their use, in bulletins, which are sent free to any one interested. Other publications that should be of interest to feeders and are available to those who desire them, can be obtained from the county agricultural agent or by writing to the College of Agriculture Extension Service, Lexington.

Minerals for Livestock. Extension Circular 360
Feeding Dairy Cows. Extension Circular 364
Feeding Laying Hens. Extension Circular 372
Raising Turkeys. Extension Circular 217
Pigs; from Birth to Market in 6 Months. Extension Circular
368
Lambing Time. Extension Circular 346
Workstock. Extension Circular 306



\$100 penalty for using this tag second time

100 POUNDS NET WHEAT MIXED FEED AND SCREENINGS

MADE BY
JOHN DOE & CO.,
MILLVILLE, KY.

GUARANTEED ANALYSIS	
	Per Cent
Protein	15.50
Fat	4.00
Fiber	8.50

MADE FROM:
Wheat Bran, Wheat Middlings,
Ground Wheat Screenings 5%

The above is the manufacturer's or dealer's guaranty and the sale of this package is authorized subject to the feed stuffs law.

Director
Ky. Agricultural Experiment Station,
Lexington, Kentucky

250/41



\$100 penalty for using this tag second time

100 POUNDS NET 20% PROTEIN LAYING MASH

MADE BY
JOHN DOE & CO.,
MILLVILLE, KY.

GUARANTEED ANALYSIS	
	Per Cent
Protein	20.00
Fat	4.50
Fiber	7.00

MADE FROM:
Ground Yellow Corn, Wheat Bran, Wheat Middlings, Meat Scrap, Soybean Oil Meal, Alfalfa Meal, Dried Buttermilk, Ground Limestone 2%, Salt 1%

The above is the manufacturer's or dealer's guaranty and the sale of this package is authorized subject to the feed stuffs law.

Director
Ky. Agricultural Experiment Station,
Lexington, Kentucky

251/41



\$100 penalty for using this tag second time

100 POUNDS NET 16% PROTEIN DAIRY FEED

MADE BY
JOHN DOE & CO.,
MILLVILLE, KY.

GUARANTEED ANALYSIS	
	Per Cent
Protein	16.00
Fat	3.50
Fiber	15.00

MADE FROM:
Wheat Bran, Corn Feed Meal, Brewers Dried Grains, Cottonseed Meal, 10% Oat Hull Feed, 15% Ground Screenings Refuse (Weed Seeds), Hulls, Chaff and Inferior Grain, Ground Limestone 1%, Salt 1%

The above is the manufacturer's or dealer's guaranty and the sale of this package is authorized subject to the feed stuffs law.

Director
Ky. Agricultural Experiment Station,
Lexington, Kentucky

252/41

"Yellow Tag" Feed

Standard Mixed Feed

SYSTEM OF TAGGING

This Department groups feeds into three general classes: "straight" feeds, "straight mixed" feeds, and "yellow tag" feeds, and labels them accordingly. (See examples of these tags, page 4.) The purpose of this system of labeling is to mark conspicuously certain important differences in the character of feeds. It is designed to aid in the selection of feeds. The tags are issued according to a three-color scheme, as follows:

A manila tag printed in black ink designates a feed made from one grain or plant. This class of feeds is known as "straight" feeds. *Examples:* wheat bran, hominy feed, cottonseed meal, alfalfa meal.

A manila tag printed in red ink designates a feed made from the products or byproducts of two or more grains, or plants, or animal byproducts. This class of feeds is known as "straight mixed" feeds. *Examples:* a mixture of wheat bran, hominy feed, and cottonseed meal; a mixture of corn chop, crimped oats, wheat bran, and alfalfa meal; or a mixture of yellow corn meal, wheat gray shorts, ground oats, alfalfa leaf meal, soybean oil meal, meat scrap, dried buttermilk.

A yellow tag printed in black ink designates a feed containing a material or materials of little or no nutritive value. Such are usually known as "yellow tag" feeds. *Examples:* feeds containing oat hulls, corn cobs, cottonseed hulls, screenings and screenings refuse or waste, or other similar materials containing an excessive percentage of fiber.

READ THE TAG

A farmer who buys his feeds on price instead of on quality, tho price is a factor always to be considered, is practicing false economy. In reality a feeder pays more for the nutrients in cheap, filler feeds than if he bought good, clean, well-balanced feeds at a somewhat higher price per bag. A cheap, filler feed may be the costliest feed a farmer can buy, because of the small amount and inferior quality of the nutrients and the unwholesomeness of the filler.

Let us illustrate by taking two dairy feeds, the first a 20-percent protein straight mixed feed containing ingredients of known quality and value, and the second a 16-percent protein filler or

yellow-tag feed that contains (as such feeds usually do) the maximum percentage of filler allowed, which is 25 percent, of unknown and questionable value. It should be noted that while the fillers are low in nutrient value, as a general rule the other ingredients used in this type of feed are low in quality also.

Example 1—Containing Ingredients in the Proportions Usually Found in High-Grade, Well-Balanced Feeds

<i>Ingredients</i>	<i>Percent</i>
Ground yellow corn	30
Wheat bran	20
Cottonseed meal	10
Soybean oil meal	10
Linseed oil meal	5
Ground oats	10
Distillers corn dried grains	12
Ground limestone	2
Salt	1

This feed will analyze approximately 20 percent protein, 4 percent fat, and 9 percent fiber. It would bear a manila tag printed in red.

The second is made of the usual ingredients found in "low-grade" filler feeds and proportioned in approximately the following manner:

Example 2—Containing Ingredients in the Proportions Usually Found in Low-Grade Filler Feeds

<i>Ingredients</i>	<i>Percent</i>
Corn feed meal	5
Corn bran	10
Wheat bran	5
Wheat middlings	3
Corn gluten feed	5
Soybean oil meal	22
Alfalfa meal	10
Molasses	12
Oat hulls	10
Screenings refuse (weed seeds, hulls, chaff and inferior grain)	15
Ground limestone	2
Salt	1

This feed will analyze approximately 16 percent protein, 3.5 percent fat, and 15 percent fiber. It would bear a yellow tag printed in black.

The total digestible nutrients of Example 1 is approximately 61 percent while that of Example 2 is 40 percent. Calculating the cost of ingredients at local prices and allowing a reasonable

sum for mixing, handling and profit, Example 1 costs approximately 1 cent less per pound of total digestible nutrients than does Example 2. This shows a considerable saving in favor of the straight mixed feed.

QUALITY OF FEEDS

The usefulness of a feed as nourishment for an animal depends on the kind, amount, and quality of nutrients it contains, and the presence of the vitamins necessary for growth, maintenance, and reproduction. The feed must be palatable, free from poisonous or injurious substances, and must not contain too much indigestible material. The chemical analysis on the tag shows the percentages of the principal nutrients and the statement of ingredients helps a buyer to form an estimate of the probable digestibility, palatableness, and vitamin content of the feed.

The usual chemical analysis shows the percentages of the following substances, except vitamins.

Protein is the nitrogenous part of a feed. Animals use it for the building and repair of body tissues. However, when carbohydrates and fats are deficient in the diet, heat and energy can be obtained from protein, but this is usually undesirable both physiologically and economically. Protein is the most important and most costly constituent of feed materials. Plants build up protein from the inorganic elements of the soil and air. Protein from animal sources such as milk, meat scrap, and tankage—is plant protein which has been partly broken down by the digestive processes of the animal and reconstructed into the protein specific for the animal. The nutritional value of proteins differs greatly; therefore, it is well to select feed ingredients which contain the right kind of protein or to make up the ration from materials which contain more than one kind. Proteins derived from animal sources, such as milk, meat and meat byproducts, are very desirable for poultry, dogs, hogs, and young animals of all kinds. They are not so necessary for mature animals, especially the ruminating animals, because these have the power to utilize other proteins.

Fat is a nutrient in feeds soluble in ether. It produces heat and energy in the animal economy, its value for such being 2.25

times that of either nitrogen-free extract or protein. Fats also help to maintain the normal function of the digestive tract, and excess fat may be stored in the body. Comparatively small amounts of fat are needed for animals. Most rations contain a sufficient amount.

Fiber is the woody portion or structural part of plants, grains, and outer grain coating. It consists mainly of cellulose, which has little feed value. When present in too large quantity, it has a retarding effect on the digestion of other nutrients and is itself only slightly digested. Its chief value appears to be its mechanical action in the intestinal tract, tho cattle, sheep, and goats digest a considerable amount of it. Excessive fiber in a feed generally indicates that the percentage of essential nutrients is low and that their digestibility is impaired. Stems, hulls, and chaff are mainly fiber.

Ash is the mineral matter or residue obtained when a feed has been completely burned. The ash of clean vegetable materials contains mineral substances which the plant has taken from the soil. Most of these are essential constituents of feeds. They form the bony structure of the animal and are essential in maintaining the normal functions. It follows that the same is true of some rations. Because of the nature of commercial feeds suitable for different kinds of animals, mineral deficiencies are more likely to occur in mixtures for poultry and hogs than in those for cattle, horses, and sheep. The mineral substances most commonly deficient are calcium and phosphorus. An excess amount of ash in a feed usually means the presence of inert matter, such as dirt or sand.

Water is present in all feeds. It adds nothing to their value because animals receive their main supply of water from other sources. Water reduces the value of a feed by decreasing the percentages of the other nutrients, and much water lowers the keeping quality of the feed.

Nitrogen-free extract. In making the usual chemical analysis of a feed, the chemist determines the percentages of protein, ether extract (fat), fiber, ash, and water and terms the remainder nitrogen-free extract. It is composed chiefly of starch and sugars, which are easily digestible. In grains it is practically all starch. Nitrogen-free extract and fat in the diet of an animal are oxidized to maintain body heat and produce energy for work.

While nitrogen-free extract is less than half as effective as fat in this respect, it is present in so much larger quantity that it is more important in a feed. Also, nitrogen-free extract may be used to produce fat stored in the body, as in fattening an animal.

Vitamins are organic food substances distinct from the more familiar nutrients (proteins, fats, carbohydrates, and minerals) but necessary in nutrition for normal growth and reproduction. Altho these substances are required only in very small quantities, some feeds do not contain enough for proper growth and productiveness. Deficiency in each vitamin leads to specific disease symptoms usually first manifested by lack of growth. Frequently, the feeder does not suspect a vitamin deficiency because he notices only retarded growth. The typical symptoms usually appear only in the later stages of the disease. When the feeder uses commercial feeds, he should select feeds made by reputable manufacturers whose record for making reliable feeds is good. When he is home-mixing feed, he should select only ingredients of high quality whose values are well known.

The vitamins are widely distributed in plant and animal materials commonly fed to livestock and poultry. Green feeds, legumes, and natural green hays are the principal sources of carotene (vitamin A) and riboflavin (vitamin G). All grains except yellow corn have very little vitamin-A activity, but are good sources of vitamin B. Vitamin E is present chiefly in leafy materials, vegetable and animal oils, and the germs of seeds, especially the germ of wheat. No feeds are good sources of vitamin D, the chief source for farm animals being direct sunlight and fish oils, or their equivalent.

The first principle of avoiding vitamin deficiencies in feeding is the maximum use of high-quality roughages and direct sunlight. High-quality roughages include green pasture, legume or grass silage, corn silage, leafy and green sun-cured legume hays. Animals that normally consume large quantities of roughage of this sort will not need special vitamin supplements. Poultry and hogs consume more concentrates than roughages and therefore should be given maximum use of green pasture and direct sunlight. However, when these are not available, they should be given a liberal amount of milk byproducts and alfalfa leaf meal. The most practical way to supply vitamin D

to confined fowls is to use biologically tested fish oil or its equivalent.

BETTER KNOWLEDGE OF FEEDING NEEDED

The Feed Control Department tries to protect users of commercial feeds by requiring to be printed on the state guaranty tag as complete information as possible on the composition of the feeds, and by limiting the content of a filler to 25 percent. Nevertheless, about 37,000 tons of "yellow tag" feed were sold in Kentucky last year, as estimated from the number of tags issued.

The fact that 37,000 tons of yellow-tag feed could be sold in the state points to the need of feeders for better knowledge of the feed requirements of livestock and the most practical way to supply those requirements. Farmers need a more general knowledge of feeds and their use, based upon well-established principles of nutrition. Farmers who have a good general knowledge of feeds and feeding are in a position to make better application of new nutritional discoveries.

The immediate need of most farmers is a sufficient practical knowledge of feeds to be able to select them on the basis of their quality and economical productiveness. Every farmer who grows livestock should understand the value of the feeds he grows on his farm and should know how to supplement those home-grown feeds with suitable materials to make a balanced ration. The Feed Control Department is endeavoring to carry as much practical information as possible to the feeders thru its inspection service, correspondence, and publications.

Many manufacturers are rendering valuable service to farmers in an educational way, but unfortunately some are confusing the minds of feeders, and because of this are doing the feed industry as well as the livestock industry a great harm thru extravagant claims of salesmen and advertising.

The Extension Service of the College of Agriculture thru a well defined and active program can render a distinct service to the farmer in this particular phase of his need. A feeder needing help on his feed program should call on his county agricultural agent or the Animal Husbandry or the Feed Control Departments of the Experiment Station, or some successful neighbor feeder.

ANALYSES OF SOYBEANS

The Feed Control Department has followed its usual custom in making analyses of certain feeding stuffs grown on the farm. In previous bulletins the results of analyses of corn, legumes and grasses have been reported. In this bulletin are given the analyses of soybeans grown in Henderson county, Kentucky.

The usual feed analysis was made of 30 samples of soybeans grown in Henderson County, representing 15 varieties of beans. Seventeen of the samples, grown on bottom land, had an average analysis of 39.7 percent protein, 18.4 percent fat, 5.4 percent fiber, 25.0 percent nitrogen-free extract, 6.7 percent water, 4.8 percent ash. The remaining 13 samples, grown on upland, had an average analysis of 30.4 percent protein, 21.5 percent fat, 5.6 percent fiber, 30.4 percent nitrogen-free extract, 6.1 percent water, 5.8 percent ash. The individual analysis of each sample is given in the table. The beans grown on the richer soil

TABLE 1.—ANALYSES OF SOYBEANS GROWN IN HENDERSON COUNTY

Variety	Pro- tein	Fat	Fiber	N. F. Ext.	Water	Ash
Group 1. Grown on bottom land.						
Arksoy	41.4	16.5	5.8	24.8	6.6	4.9
Delsta	39.9	15.4	5.1	26.0	9.1	4.5
Dunfield	38.5	22.8	4.9	23.8	5.9	4.1
Illini	39.4	19.8	5.2	25.1	5.9	4.6
Kingwa	38.7	16.0	6.9	36.7	6.8	4.9
Kingwa	39.2	16.1	6.4	25.0	6.3	5.0
Macoupin	40.0	19.2	5.5	24.0	6.5	4.8
Mammoth Yellow	41.3	18.6	5.7	21.6	8.1	4.7
Manchu	44.0	19.0	5.2	20.9	6.0	4.9
Mansoy	38.8	19.4	5.0	25.4	6.3	5.1
Morse (Cairo)	37.9	19.4	5.3	26.4	6.0	5.0
Morse (Wade)	39.0	18.8	5.0	25.8	6.2	5.2
Scioto	39.1	19.6	5.1	24.4	7.0	4.8
U. S. 70218-2	40.7	19.6	5.0	23.5	6.2	5.0
U. S. 54563-5	37.7	19.9	5.8	26.0	6.0	4.6
U. S. 61944	40.1	17.6	5.8	25.5	6.1	4.9
Woods Yellow	39.4	15.5	4.7	26.8	9.2	4.4
Average	39.7	18.4	5.4	25.4	6.7	4.8
Group 2. Grown on upland.						
Dunfield	30.3	22.7	5.4	29.6	5.9	6.1
Illini	32.0	21.9	5.0	29.4	5.8	5.9
Kingwa	28.7	18.5	7.4	32.9	6.5	6.0
Kingwa	29.1	19.4	7.1	32.0	6.3	6.1
Macoupin	30.1	22.4	5.2	30.5	6.0	5.8
Manchu	31.1	21.8	5.5	29.1	6.7	5.8
Mansoy	28.9	22.9	5.5	30.9	6.0	5.8
Morse (Cairo)	31.1	21.3	5.2	30.3	6.2	5.9
Morse (Wade)	31.1	20.7	5.5	30.8	6.1	5.8
Scioto	30.1	23.5	5.2	29.0	6.0	6.2
U. S. 70218-2	31.5	22.2	5.2	28.7	6.0	6.4
U. S. 54563-5	29.9	22.8	5.5	29.9	5.8	6.1
U. S. 61944	31.2	19.6	5.8	31.3	6.3	5.8
Average	30.4	21.5	5.6	30.4	6.1	5.9
Average of the same varieties grown on bottom land	39.5	19.0	5.5	25.6	6.2	4.8

averaged higher in protein and lower in fat and nitrogen-free extract than the same varieties grown on the poorer soil.

TONNAGE IN 1940

The total tonnage of feeds sold in Kentucky in 1940, computed from tax tags, was 353,138. The feeds are classified as straight by-product feeds, 177,720 tons; special-purpose feeds, 162,743 tons; stock feeds (idle stock), 9,485 tons; and miscellaneous, 3,190 tons.

Of the total tonnage, approximately 37,000 were yellow-tag or filler feeds. The maximum filler allowed is 25 percent. Practically all filler feeds contain this amount, but in order to be conservative, only 20 percent is used in this calculation which gives 7,400 tons of fillers sold in feeds during 1940.

The formulas on page 6 used for comparison show that the average yellow-tag feed contains approximately two-thirds as much total digestible nutrients as does the straight-mixed feed. On this basis 24,666 tons of straight-mixed feed will supply the same amount of total digestible nutrients as 37,000 tons of yellow-tag feed. This means that at prevailing prices in 1940 the feeders of Kentucky lost \$270,000 in cash by purchasing yellow-tag feeds.

Straight Byproducts	Tons
Alfalfa meal	125
Barley, ground	525
Bonemeal	200
Brewers dried grains	400
Corn byproduct feed	2,075
Corn feed meal	2,425
Corn gluten feed	175
Corn gluten meal	100
Cornmeal	350
Cottonseed meal	14,100
Cracked corn	21,535
Crushed ear corn	175
Distillers dried grains	875
Dried beet pulp	25
Dried buttermilk	50
Fish meal	50
Hominy feed	18,125
Linseed oilmeal	775
Meat scraps	300
Meat and bone scraps	825
Miscellaneous wheat feeds	2,050
Mixed feed (wheat byproduct with small percent corn bran)	24,935
Oats, ground	450
Oats, rolled	125
Soybean oilmeal	11,750

Tankage	2,950
Wheat bran	8,000
Wheat brown middlings or shorts	17,825
Wheat flour middlings	1,700
Wheat gray middlings or shorts	21,700
Wheat mixed feed	20,375
Wheat red dog flour	2,650

Special-purpose Mixed Feeds

Calf meal	940
Dairy feed—	
16% protein	35,875
20% protein	5,250
24% protein	21,325
Supplement	1,550
	<hr/>
	64,000
Dog and cat feed--	
Canned	2,732
Dry	2,036
	<hr/>
	4,768
Goat feed	25
Hog feed—	
Fattening and growing	3,800
Supplement	3,550
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	7,350
Horse and mule feed	9,910
Mineral feed	2,020
Pigeon feed	150
Poultry grains—	
Chick	3,155
Scratch	17,275
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	20,430
Poultry mash—	
All-mash growing ration	1,275
All-mash laying ration	280
All-mash poultry ration	2,825
All-mash starting ration	545
All-mash starting and growing ration	2,415
Fattening mash	2,625
Growing and broiler mash	8,685
Laying mash	19,945
Starting mash	3,925
Starting and growing mash	3,465
Supplement mash	2,130
Turkey growing mash	1,880
Turkey laying mash	250
Turkey starting mash	980
Turkey supplement mash	200
	<hr/>
	51,425

Rabbit feed	525
Sheep feed	1,200
Stock feed (idle stock)	9,485
Miscellaneous feeds	3,190
Total	353,138

DOG FEEDS

Fifty-nine samples of dog feeds, 5 dry and 54 canned, were analyzed during 1940. The results were as follows: of 5 samples of dry feed, 4 equalled guaranty and 1 was misbranded; of the 54 samples of canned feed, 11 were deficient in protein, 10 in fat, 15 in net weight, 2 had excess fiber, 17 excess water, 20 were misbranded as to the ingredients and amounts of nutrients guaranteed, and only 20 equalled guaranty. The detailed results are printed in Table 2.

TABLE 2.—ANALYSES OF DOG FEEDS*

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	N. F. Ext.			
Allied Mills, Inc., Chicago, Ill.								
Wayne 25% Protein Dog Feed Krums	Cyclone Cash Store, Mt. Washington	29.7	6.0	4.4	.....	.....	.....	As guaranteed.
		25.0	4.0	5.0	.....	.....	.....
Altsheler & Co., Louisville, Ky.								
Cherokee Dog Feed	D. J. Schmitt, Buechel	11.6	2.8	1.0	10.3	71.6	2.7	Excess water.
		10.0	2.0	1.5	.....	70.0	.....
American Beef Co., Chicago, Ill.								
Buster Dog Feed	Carl Yaeger, Jeffersonstown	9.3	1.5	1.0	12.0	74.9	1.3	Deficient in protein. No charcoal found. Excess water.
		10.0	2.0	1.2	.....	74.0	.....
Laddie Dog Feed	A. Waking & Son, Louisville	9.5	1.6	1.1	12.8	74.3	1.7	No charcoal found. Deficient in net weight.
		10.0	2.0	1.2	.....	74.0	.....
Armour & Co., Chicago, Ill.								
Armour's Dog Feed	Geo. W. Hill, Covington	12.1	3.4	0.6	10.8	71.0	2.1	As guaranteed.
		12.0	2.5	1.2	.....	74.0	.....
Ballard & Ballard Co., Louisville, Ky.								
Insurance 28% Protein Dog Feed	C. A. Burdon, Fishersville	31.2	6.8	3.6	.....	.....	.....	As guaranteed.
		28.0	4.0	5.0	.....	.....	.....
Calo Food Products, Inc., Oakland, Calif.								
Calo Dog and Cat Feed	Kroger Grocery & Baking Co., Prestonsburg	10.2	3.2	0.7	11.9	72.1	1.9	No carrots found.
		10.0	2.0	1.0	.....	72.0	.....
Chappel Bros., Rockford, Ill.								
Ken-L-Ration Dog Feed	Bauer Brothers, St. Matthews & P. Tea Co., A. Middlesboro	11.6	2.4	1.0	11.2	70.4	3.4	As guaranteed.
		11.0	3.7	1.0	.....	71.4	.....
Same		10.0	2.0	1.0	.....	70.0	.....	Excess water.
Coast Fishing Co., Wilmington, Calif.								
"Puss 'N Boots" Cat Feed	Steiden Stores, Louisville	12.1	6.1	0.8	6.8	71.2	3.0	Much deficient in protein. Excess water. Misbranded.
		14.0	6.0	1.0	.....	70.0	.....
Balto Dog and Cat Feed	Dr. H. C. Harthill, Louisville	15.5	4.4	0.5	5.4	70.8	3.4	Deficient in fat. Ground corn present tho not guaranteed. Excess water.
		12.5	6.0	1.0	.....	70.0	.....
Daily Packing Co., Chicago, Ill.								
Daily Cat Feed	A. & P. Tea Co., Cynthiana & P. Supermarket, A. St. Matthews	13.8	4.8	1.1	7.4	70.3	2.6	As guaranteed.
		13.1	4.1	1.0	.....	70.8	.....
Same		10.0	2.5	1.2	.....	72.0	.....	Same.

* Manufacturer's guaranty is printed in bold-face type.

TABLE 2.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	N. F. Ext.			
Daily Dog Feed	A. & P. Tea Co., Horse Cave	11.5	3.0	1.3	9.1	72.3	2.8	Deficient in net weight.
Same	A. & P. Tea Co., Middlesboro	12.7 12.0	2.7 3.0	1.2 1.5	10.2	70.2 70.0	3.0	No charcoal found. Ground corn present tho not guaranteed.
Doyle Packing Co., Momenca, Ill. Little Sport Dog Feed	Tony Bezold, Newport	7.9 10.0	0.7 2.0	1.0 1.5	15.3	73.6 74.0	1.5	Much deficient in protein and fat. No soybean oil meal found. Ground corn present tho not guaranteed. Misbranded.
Smoky Dog Feed	H. Runyan & Sons, Louisville	7.7 10.0	1.2 2.0	1.0 1.5	13.3	74.4 74.0	2.4	Deficient in protein, fat and net weight. Ingredients not as guaranteed. Misbranded.
Square Deal Dog and Cat Feed	Albers Grocery, Covington	6.8 10.0	0.9 2.0	0.9 1.5	13.9	76.3 74.0	1.2	Much deficient in protein, fat and net weight. Excess water. Misbranded.
Strongheart Rations Dog Feed	Kroger Grocery & Baking Co., London	7.8	1.7	0.8	14.1	74.2	1.4	Deficient in protein and net weight. No soybean oil meal found. Ground corn present tho not guaranteed. Misbranded.
Same	Steiden Stores, St. Matthews	8.0 10.0	3.0 2.0	1.0 1.5	11.7	75.0 74.0	1.3	Deficient in protein and net weight. Excess water. Misbranded.
White Cross Dog and Cat Feed	Union Store Co., Buechel	8.0 10.0	1.9 2.0	1.2 1.5	13.4	73.2 74.0	2.3	Deficient in protein and net weight. Ground corn present tho not guaranteed.
Foster Canning Co., Glendale, Long Island, New York. "Nifty Brand" Dog Feed	Ferrill's Foods, Louisville	9.6 10.0	1.7 2.0	1.5 1.5	14.1	71.1 74.0	2.0	Only trace of meat products present.
Hi-Life Packing Co., Chicago, Ill. Hi-Life Dog Feed	Geo. W. Hill, Covington	9.5	0.9	1.2	12.2	74.2	2.0	Deficient in fat and net weight.
Same	Floyd Millers' Grocery, Buechel	10.4 10.0	2.3 2.0	1.0 1.5	9.3	74.7 74.0	2.3	Excess water. Deficient in net weight.

TABLE 2.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	N. F. Ext.			
Interstate Foods of America, Bedford, O. ABC Dog Feed	Albers Grocery, Newport	10.0 10.0	0.8 2.0	1.1 1.2	9.3	76.9 74.0	1.9	Deficient in fat. Excess water. Misbranded.
ABC Dog Feed (Diet 2)	Albers Grocery, Covington	10.8 10.0	1.0 2.0	1.3 1.2	10.1	75.0	1.8	Deficient in fat. Excess water. Not registered and sold in violation of the law.
ABC Dog Feed (Diet 3)	Same	10.4 10.0	1.2 2.0	1.2 1.2	9.5	76.0	1.7	Same.
Kingan & Co., Indianapolis, Ind. Kinco Dog Feed	Pay-N-Takit Grocery, Newport	10.0 10.0	3.7 2.5	0.6 1.0	16.4	68.8 70.0	0.5	As guaranteed.
The Kroger Grocery & Baking Co., Cincinnati, O. Kroger Dog Feed	Kroger Grocery & Baking Co., Cynthiana	12.1	4.1	1.3	12.0	65.0	5.5	No carrots found.
Same	Kroger Grocery & Baking Co., Owenton	12.3 10.0	5.6 3.0	1.3 1.2	9.8	67.3 70.0	4.7	As guaranteed.
Loudon Packing Co., Terre Haute, Ind. Doggie Dinner	Kroger Grocery & Baking Co., Horse Cave	11.6	2.4	1.2	12.9	69.5	2.4	As guaranteed.
Same	Kroger Grocery & Baking Co., Cynthiana	12.8 10.0	3.1 2.7	1.5 1.0	13.1	66.8 70.0	2.7	No bone meal found.
S. E. Mighton Co., Bedford, O. Spot Dog and Cat Feed	Kroger Grocery & Baking Co., Shively	9.0	1.2	1.0	9.2	78.3	1.3	Deficient in protein and fat. Adulterated with excess water. Misbranded.
Same	Kroger Grocery & Baking Co., Irvine	9.6 10.0	1.2 2.0	0.8 1.2	8.1	78.4 74.0	1.8	Deficient in fat. Adulterated with excess water. Misbranded.
Morgan Packing Co., Austin, Ind. King Karlo Dog Feed	Hardesty's Trading Post, Buechel	10.5	2.4	1.1	9.9	74.1	2.0	Adulterated with excess water. Misbranded.
Same	Kidd Brothers, Pineville	11.0 10.0	2.5 2.5	1.0 1.2	12.9	70.6 70.0	2.0	Excess water.

TABLE 2.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	N. F. Ext.			
John Morrell & Co., Ottumwa, Ia. Red Heart Dog Feed—Diet A	Sander's Pet Shop, Louisville	11.4	3.0	0.7	10.0	72.2	2.7	As guaranteed.
Same	A. & P. Tea Co., Middlesboro	11.3 10.5	3.1 2.5	0.8 1.0	10.1	72.0 74.0	2.7	Same.
Red Heart Dog Feed—Diet B	Geo. C. Goode, Covington	11.2 10.5	3.3 2.5	0.7 1.0	9.7	72.5 74.0	2.6	No fish product found.
Red Heart Dog Feed—Diet C	Albers Grocery, Covington	11.8 10.5	2.8 2.5	0.8 1.0	9.6	72.3 74.0	2.7	As guaranteed.
Old Trusty Dog Food Co., Needham Hts., Mass.	Haller's Pet Shop, Louisville	28.2 24.9	4.6 3.1	3.0 1.2	.....	.....	.....	Excess fiber. Ingredients not as guaranteed. Misbranded.
Pedrick Laboratories, Sand Springs, Okla. Vigo Dog Feed	Louisville Grocery Co., Louisville	9.8 10.0	2.8 2.0	0.6 1.5	12.8	72.4 74.0	1.6	Deficient in net weight.
Perfection Foods Co., Battle Creek, Mich. Perfection Brand Dog Feed	John B. Penn & Sons, Georgetown	17.1	2.9	2.9	.....	.....	.....	As guaranteed.
Same	Fox Brothers, Winchester	15.4 14.0	2.1 1.0	3.5 5.0	.....	.....	.....	Same.
Rival Packing Co., Chicago, Ill. Rival Dog Feed	C. F. Jasper & Son, Jeffersonton	10.4	4.5	0.6	11.5	72.0	1.0	As guaranteed.
Same	A. & P. Tea Co., Middlesboro	10.3 10.0	3.7 2.5	0.5 1.0	11.5	73.0 74.0	1.0	Same.
Ryde & Co., Chicago, Ill. Ryco Dog and Cat Feed	Conrad J. Clausen, Louisville	12.0 12.0	4.6 5.0	1.0 1.0	8.5	72.0 74.0	2.0	Deficient in net weight.
Sandy's Pet Foods, Inc., Chicago, Ill. Sandy's Dog Feed	Kroger Grocery & Baking Co., Cynthiana	10.0 12.0	2.5 2.5	2.5 1.2	7.2	76.2 74.0	1.6	Deficient in protein and net weight. Excess fiber. Excess water. Misbranded.

TABLE 2.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	N. F. Ext.			
Silver King Canning Co., Kansas City, Kan.								
Silver King Dog and Cat Feed	Jellico Grocery Co., Harlan	10.4 10.0	2.5 2.0	0.5 1.0	9.7	74.3 74.0	2.6	As guaranteed.
Swift & Co., Chicago, Ill.								
Swift's Pard Dog Feed	Geo. C. Goode, Covington	11.9	3.9	0.7	9.5	72.0	2.0	As guaranteed.
Same	Swift & Co., Louisville	10.6 10.5	3.3 2.5	0.5 1.0	10.7	72.7 74.0	2.2	Same.
Variety Foods, Inc., Indianapolis, Ind.								
Vigor Dog Feed	Albers Grocery, Covington	10.8 10.0	2.1 2.0	1.4 1.5	9.7	74.3 74.0	1.7	As guaranteed.
Woof Dog Feed	Vaughan Grocery Co., Louisville	9.7 10.0	0.9 2.0	1.1 1.5	9.9	76.8 74.0	1.6	No dried carrots, bone meal or charcoal found. Deficient in fat and net weight. Excess water. Misbranded.
Viking Dog Feed	Jeffersontown Food Mart, Jeffersontown	10.3 10.0	2.6 2.0	1.2 1.5	14.9	69.4 74.0	1.6	No carrots found.
Vaughan Wholesale Grocery Co., Louisville, Ky.								
Fluffy Dog Feed	Frankel-Obrecht Drug Co., St. Matthews	9.1 10.0	2.0 2.0	1.0 1.5	10.3	76.0 74.0	1.6	Deficient in protein and net weight. Excess water. Misbranded.
Vimpep Foods, Inc., Cambridge, Md.								
Smarty Brand Dog Feed	H. T. Hackney Grocery Co., Harlan	10.4	3.6	1.0	13.4	68.5	3.1	As guaranteed.
Same	Houchen's Market, Horse Cave	10.3 10.0	2.2 2.0	0.9 1.0	15.1	68.0 74.0	3.5	Same.
Play Ball Dog and Cat Feed	J. Ruby, Central City	9.5	1.8	0.8	11.5	72.7	3.7	Deficient in net weight. Not registered. Withdrawn from sale.
Wilson & Co., Chicago, Ill.								
Ideal Dog Feed	Geo. C. Goode, Covington	10.0	4.9	0.6	10.5	71.5	2.5	As guaranteed.
Same	A. P. Food Store, Owenton	10.6 10.0	1.7 2.0	0.6 1.0	13.9	71.5 74.0	1.7	Same.

SUMMARY OF RESULTS OF INSPECTION AND ANALYSIS, 1940

- Acme-Evans Co., Indianapolis, Ind. Inspection samples analyzed, 14.
- Acme Red Dog, 1; equaled guaranty.
 - Acme Wheat Brown Middlings and Screenings, 1; equaled guaranty
 - Acme Hominy Feed, 1; equaled guaranty.
 - Acme 13% Protein Fattening Mash, 1; equaled guaranty.
 - Producer 16% Protein All-Mash, 1; equaled guaranty.
 - Acme 18% Protein Egg Mash, 2; 1 linseed oil meal present tho not guaranteed.
 - Acme 32% Protein Mash Supplement, 1; much deficient in protein; wheat bran and ground corn present tho not guaranteed; misbranded.
 - Acme Horse Feed, 1; equaled guaranty.
 - Producer Horse Feed, 2; 1 no alfalfa meal found.
 - Acme 16% Protein Dairy Feed, 3; 1 no salt found.
- The Acme Mills, Hopkinsville, Ky. Inspection samples analyzed, 3.
- Wheat Bran, 1; equaled guaranty.
 - Wheat Brown Shorts, 2; equaled guaranty.
- Albers Bros. Milling Co., Seattle, Wash. Inspection sample of Calf Manna analyzed, 1; equaled guaranty.
- E. T. Allen Co., Atlanta, Ga. Inspection sample of "Empire" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Allied Mills, Inc., Chicago, Ill. Inspection samples analyzed, 26.
- Wayne 41% Protein Soybean Oil Meal (Expeller Process), 1; equaled guaranty.
 - Wayne 15% Protein All-Mash Poultry Ration, 1; equaled guaranty.
 - Wayne 18% Protein Chick Starter, 1; equaled guaranty.
 - Wayne 17% Protein Starter and Grower (With Fortified Sardine Oil), 1; equaled guaranty.
 - Wayne 17% Protein Growing Mash (With Fortified Sardine Oil), 1; equaled guaranty.
 - Wayne 18% Protein Laying Mash (With Fortified Sardine Oil), 2; equaled guaranty.
 - Wayne 20% Protein Egg and Breeder Mash, 1; equaled guaranty.
 - Wayne 26% Protein Mash Supplement, 1; linseed oil meal present tho not guaranteed.
 - Wayne 25% Protein Turkey Starting Mash, 1; equaled guaranty.
 - Wayne 20% Protein Turkey Growing Mash (With Fortified Sardine Oil), 1; equaled guaranty.
 - Sugarine Horse and Mule Feed, 1; screenings refuse substituted for clipped oat by-product.
 - Wayne 40% Protein Hog Supplement, 1; deficient in protein; corn meal present tho not guaranteed.
 - Wayne 12% Protein Fitting Ration (For Young and Dry Cows), 1; equaled guaranty.

- "Super Soy Brand" Feed (Supplement), 1; equaled guaranty.
Wayne Sweet Stock Feed, 1; equaled guaranty.
Sugarine Cattle Blox, 1; no cottonseed meal found; excess screenings refuse present; misbranded.
Topper 16% Protein Dairy Feed, 4; 1 no oat hull feed found.
Wayne 20% Protein Dairy Feed, 1; equaled guaranty.
Wayne 24% Protein Dairy Feed, 3; equaled guaranty.
Wayne 32% Protein Dairy Feed Supplement, 1; equaled guaranty.
- Anderson County Mills, Lawrenceburg, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and fat.
- Anderson & Spilman, Danville, Ky. Inspection samples of "Snow Flake" Feed analyzed, 3; 1 screenings refuse substituted for wheat screenings, misbranded.
- Arcady Farms Milling Co., Chicago, Ill. Inspection samples analyzed, 11.
Hominy Feed, 1; equaled guaranty.
Wonderfat Station Feed, 1; equaled guaranty.
"Sunkist" 17% Protein Growing Mash, 1; excess fiber; no dried buttermilk found.
"Sunkist" 17% Protein Starter and Grower All-Mash, 1; deficient in protein and excess fiber; weed seeds present; misbranded.
"Sunkist" 40% Protein Hog Supplement, 1; equaled guaranty.
"Besbet" 16% Protein Dairy Feed, 4; equaled guaranty.
Arco 24% Protein Dairy Ration, 2; soybean oil meal and weed seeds present tho not guaranteed; 1 corn gluten feed present tho not guaranteed.
- Archer - Daniels - Midland Co., Minneapolis, Minn. Inspection samples of 41% Protein Soybean Oil Meal analyzed, 3; equaled guaranty.
- Ashcraft-Wilkinson Co., Atlanta, Ga. Inspection sample of "Helmet Brand" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Ashland Milling Co., Ashland, Ky. Inspection samples analyzed, 5.
"Blue Ribbon" 17½% Protein Starting and Growing All-Mash, 1; no milk product found.
"Blue Ribbon" 18½% Protein Broiler Mash, 1; equaled guaranty.
"Blue Ribbon" Special 16% Protein Dairy Feed, 1; equaled guaranty.
"Blue Ribbon" 20% Protein Dairy Feed, 1; equaled guaranty.
"Blue Ribbon" 24% Protein Dairy Feed, 1; equaled guaranty.
- The Great Atlantic & Pacific Tea Co., New York, N. Y. Inspection samples analyzed, 12.
"Daily Growth" 16½% Protein Chick Starter, 1; equaled guaranty.
"Daily Growth" 18% Protein Broiler Mash, 1; equaled guaranty.
"Daily Growth" 17½% Protein Growing Mash, 1; excess fiber; soybean oil meal present tho not guaranteed.

- "Special Daily Egg" 20% Protein Laying Mash, 1; soybean oil meal present tho not guaranteed.
- "Daily Growth" 24% Protein Turkey Grower, 1; equaled guaranty.
- "Daily" Horse Feed, 1; equaled guaranty.
- "Daily Milk" 16% Protein Dairy Feed, 2; equaled guaranty.
- "Milky Way" 20% Protein Dairy Feed, 1; equaled guaranty.
- "Milky Way" 24% Protein Dairy Feed, 2; equaled guaranty.
- "Milky Way" 32% Protein Dairy Supplement, 1; equaled guaranty.
- Aubrey & Co., Louisville, Ky. Inspection samples analyzed, 47.
- Wheat Bran, 1; equaled guaranty.
- "Red A" Wheat Red Dog (Soft Wheat), 1; excess fiber.
- "Red A" Wheat Brown Shorts and Screenings, 1; equaled guaranty.
- "Red A" Farm Feed and Screenings, 1; deficient in fat.
- Soft Wheat Mixed Feed, 1; equaled guaranty.
- Rye Middlings and Screenings, 1; equaled guaranty.
- Corn Feed Meal, 1; equaled guaranty.
- Hominy Meal, 7; equaled guaranty.
- Aubrey's Ground Barley, 1; equaled guaranty.
- Aubrey's 34% Protein Linseed Oil Meal, 1; equaled guaranty.
- Aubrey's 41% Protein Soybean Cake Meal, 3; equaled guaranty.
- 24% Protein Brewers Dried Grains, 1; equaled guaranty.
- "Red A" 60% Protein Digester Tankage, 1; deficient in protein.
- "Red A" Poultry Scratch Feed, 1; equaled guaranty.
- Monarch Poultry Scratch Feed, 1; equaled guaranty.
- "Red Bird" 16% Protein Baby Chick Starting Mash (With Cod Liver Oil), 1; equaled guaranty.
- "Red Bird" 18% Protein Growing Mash (With Cod Liver Oil), 1; equaled guaranty.
- "Red Star" 17% Protein All-Mash Starter and Grower Broiler Ration, 1; equaled guaranty.
- Rainbow 14% Protein Poultry Fattening Mash, 1; equaled guaranty.
- Rainbow 18% Protein Laying Mash, 2; equaled guaranty.
- "Red Star" 20% Protein Laying Mash, 1; no dried buttermilk found.
- Rainbow 25% Protein Turkey Mash, 1; deficient in protein.
- Dandy Horse Feed, 2; equaled guaranty.
- "Red A" Sheep Feed, 3; 1 brewers dried grains substituted for distillers dried grains.
- Rainbow Hog and Pig Feed, 1; equaled guaranty.
- Red Circle Stock Feed, 1; equaled guaranty.
- "Red Star" 16% Protein Dairy Feed, 1; equaled guaranty.
- Monarch 16½% Protein Dairy Feed, 3; equaled guaranty.
- Dandy 20% Protein Dairy Feed, 1; equaled guaranty.
- "Supreme Brand" 24% Protein Dairy Feed, 2; equaled guaranty.

- "Ful-O-Cream Brand" 24% Protein Dairy Feed, 2; equaled guaranty.
- The Auburn Mills, Auburn, Ky. Inspection samples analyzed, 2.
Wheat Gray Shorts, 1; excess fiber.
Mixed Feed, 1; equaled guaranty.
- Aud Milling Co., Hardinsburg, Ky. Inspection sample of "White Swan" Mixed Feed analyzed, 1; equaled guaranty.
- Ballard & Ballard Co., Louisville, Ky. Inspection samples analyzed, 39.
Ballard's Wheat Bran, 2; equaled guaranty.
Ballard's Kentucky Farm Feed and Screenings, 6; 1 deficient in protein.
Ballard's Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- "Chick Insurance" 18% Protein All-Mash Starting and Growing Feed, 1; equaled guaranty.
- "Insurance" 18% Protein Starter and Grower, 1; equaled guaranty.
- Guardian 18% Protein Starting and Growing Mash, 1; equaled guaranty.
- "Insurance" 18% Protein Growing Mash, 2; excess fiber; 1 dried milk present tho not guaranteed.
- "Insurance" 13% Protein Fattening Mash, 1; equaled guaranty.
Guardian 20% Protein Laying Mash, 2; equaled guaranty.
Ballard's 20% Protein Laying Mash, 1; equaled guaranty.
- "Insurance" 20% Protein Egg and Breeder Mash, 2; equaled guaranty.
- "Insurance" 32% Protein Poultry Mash Supplement, 1; equaled guaranty.
- "Insurance" 26% Protein Turkey Starter, 1; equaled guaranty.
- "Insurance" 20% Protein Turkey Growing Mash, 1; equaled guaranty.
- "Ballard's Big Value Brand" Horse Feed, 1; equaled guaranty.
Balco Sweet Mule Feed, 1; equaled guaranty.
- "Insurance" 14% Protein Pig and Hog Ration, 1; equaled guaranty.
- "Insurance" 13½% Protein Sheep Feed, 2; equaled guaranty.
"Insurance" 26% Protein Steer Supplement, 1; equaled guaranty.
- Balco 16% Protein Sweet Dairy Feed, 3; 1 excess ground cottonseed hulls present.
- Ballard's 16% Protein Sweet Dairy Feed, 1; deficient in fat.
Ballard's 20% Protein Sweet Dairy Feed, 1; equaled guaranty.
Ballard's 24% Protein Sweet Dairy Feed, 1; equaled guaranty.
"Milk Insurance" 24% Protein Sweet Dairy Feed, 2; equaled guaranty.
- Guardian 24% Protein Sweet Dairy Feed, 1; equaled guaranty.
"Insurance" 34% Protein Sweet Dairy Feed Supplement, 1; equaled guaranty.

- Bardstown Mills, Bardstown, Ky. Inspection samples of "Royal" Mixed Feed analyzed, 3; equaled guaranty.
- Baughman Milling Co., Stanford, Ky. Inspection samples analyzed, 4.
Banner Mixed Feed, 1; excess fiber; corn feed meal and screenings refuse present tho not guaranteed; misbranded.
Banner Stock Feed, 3; 2 deficient in protein; 1 deficient in fat; 1 corn feed meal present tho not guaranteed.
- Beaty Bros., Science Hill, Ky. Inspection samples of "Quality Brand" 16% Protein Dairy Feed analyzed, 2; 1 no cottonseed meal found.
- Bi-County Farm Bureau Co-operative Association, Erlanger, Ky. Inspection samples analyzed, 2.
"Co-op Mermash Brand" 16% Protein Starting Mash, 1; equaled guaranty.
"Co-op Special Brand" 20% Protein Laying Mash, 1; equaled guaranty.
- The Big Four Mills, Ltd., Covington, Ky. Inspection samples analyzed, 27.
Hominy Feed, 1; equaled guaranty.
"O.K. Brand" 16% Protein Starting Mash, 1; equaled guaranty.
"Big Four" 16% Protein All-Mash Starter and Grower, 1; no dried buttermilk found.
"Big Four" 14% Protein Poultry Fattener, 1; excess fiber.
"O. K. Brand" 20% Protein Egg Mash, 2; 1 no dried buttermilk or corn gluten feed found.
"Hi-Lo" 20% Protein Egg Mash, 1; no corn gluten feed found; distillers dried grains present tho not guaranteed.
"Big Four" 20% Protein Laying Mash, 1; distillers dried grains present tho not guaranteed.
"Big Four" 24% Protein Turkey Grower, 1; deficient in protein and excess fiber; distillers dried grains present tho not guaranteed; misbranded.
"O. K. Brand" Horse Feed, 1; equaled guaranty.
"Big Four" 19% Protein Pig and Hog Feed, 1; equaled guaranty.
"Big Four" 40% Protein Hog Supplement, 1; much deficient in protein; corn gluten meal and distillers dried grains present tho not guaranteed; misbranded.
"O. K. Brand" 16% Protein Dairy Feed, 5; 1 excess fiber, excess barley hulls present; 2 no ground oats found; 1 no ground barley found, screenings refuse substituted for flax screenings oil feed; 1 no corn gluten feed found.
"Hi-Lo" 16% Protein Dairy Feed, 1; no flax screenings oil feed found; excess oat hull feed present.
"O. K. Brand" 20% Protein Dairy Feed, 1; equaled guaranty.
"Hi-Lo" 20% Protein Dairy Feed, 1; equaled guaranty.
"Big Four" 24% Protein Dairy Feed, 1; ingredients not as guaranteed; misbranded.

- "Hi-Lo" 24% Protein Dairy Feed, 4; 2 ingredients not as guaranteed, misbranded; 1 no linseed oil meal found.
- "Big Four" 25% Protein Dairy Feed, 1; deficient in fat.
- "Big Four" 32% Protein Dairy Supplement, 1; equaled guaranty.
- Binns Milling Co., Herndon, Ky. Inspection samples analyzed, 2.
- "Eclipse" Mixed Feed, 1; deficient in protein; wheat flour present.
- "Eclipse" 18% Protein Laying Mash, 1; deficient in protein.
- Bisbee Linseed Co., Chicago Hts., Ill. Inspection sample of "Bisbee Brand" 34% Protein Linseed Oil Meal analyzed, 1; equaled guaranty.
- Blanton Milling Co. (Acme-Evans Co.), Indianapolis, Ind. Inspection samples analyzed, 4.
- Blanton Wheat Bran and Screenings, 1; equaled guaranty.
- "Perfect Brand" 24% Protein Turkey Starting and Growing Mash, 1; equaled guaranty.
- "Perfect Brand" 14% Protein Hog Fattener, 1; no linseed oil meal found; screenings present tho not guaranteed.
- "Perfect Brand" 18% Protein Pig Meal, 1; equaled guaranty.
- Blish Milling Co., Seymour, Ind. Inspection samples of "Bulls Eye" Wheat Brown Middlings and Screenings analyzed, 2; equaled guaranty.
- Boonville Mills, Boonville, Ind. Inspection samples analyzed, 2.
- Wheat Gray Shorts, 1; deficient in protein and fat; sample is low grade flour.
- "Liberty" 16% Protein Dairy Feed, 1; equaled guaranty.
- Bowling Green Milling Co., Bowling Green, Ky. Inspection samples of 15¼% Protein Pork Maker analyzed, 2; 1 deficient in protein.
- Bremco Mills, New Bremen, O. Inspection sample of Bremco Alfalfa Meal analyzed, 1; excess fiber.
- Chas. Broeker & Co., Owensboro, Ky. Inspection samples of XX Mixed Feed analyzed, 2; deficient in protein.
- Browder Milling Co., Fulton, Ky. Inspection samples analyzed, 4.
- Wheat Gray Middlings, 1; equaled guaranty.
- "Hog's Delight" Sweet Feed, 1; equaled guaranty.
- 16% Protein Sweet Dairy Feed, 1; deficient in fat.
- "Lucky Strike" 24% Protein Dairy Feed, 1; equaled guaranty.
- The Buckeye Cotton Oil Co., Cincinnati, O. Inspection samples analyzed, 3.
- Buckeye 41% Protein Cottonseed Meal, 1; equaled guaranty.
- Buckeye 41% Protein Soybean Oil Meal, 2; equaled guaranty.
- Bundy Bros. Mill Co., Medora, Ind. Inspection samples analyzed, 10.
- Hominy Feed, 1; equaled guaranty.
- "Perfection Brand" 16% Protein Starting and Growing Mash, 1; only traces of linseed oil meal and milk product present.

- "Monarch" 18% Protein Laying Mash, 4; equaled guaranty.
"Champion" Stock Feed, 1; equaled guaranty.
Combination Stock Feed, 3; 1 ground soybeans present tho not guaranteed.
- Bundy Bros. Mill Co., Vallonia, Ind. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; much deficient in protein; misbranded.
- Bunton Seed Co., Louisville, Ky. Inspection sample of "Bunton's Quality Brand" 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Burnside Milling Co., Burnside, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Cadick Milling Co., Grandview, Ind. Inspection samples analyzed, 3.
Wheat Gray Shorts, 2; 1 deficient in protein.
Wheat Mixed Feed, 1; deficient in protein; corn feed meal present.
- Cairo Meal & Cake Co., Cairo, Ill. Inspection samples of "Miss Cairo Brand" 41% Protein Cottonseed Meal analyzed, 3; 2 deficient in protein; 1 excess fiber.
- Calhoun Sweet Feed Co., Calhoun, Ky. Inspection samples analyzed, 2.
"Golden Rule" 18% Protein Laying Mash, 1; equaled guaranty.
"Golden Rule" 16% Protein Dairy Feed, 1; ground soybeans present tho not guaranteed; lespedeza hay substituted for alfalfa meal.
- Campbellsville Milling Co., Campbellsville, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein.
- Cayce-Yost Co., Hopkinsville, Ky. Inspection sample of "K-O" Mixed Feed analyzed, 1; much excess fiber; lespedeza seed screenings present tho not guaranteed; misbranded.
- Cedar Hill Roller Mills, Cedar Hill, Tenn. Inspection sample of Red Dog Flour analyzed, 1; deficient in protein and excess fiber.
- Central Soya Co., Ft. Wayne, Ind. Inspection samples of Central 41% Protein Soybean Oil Meal analyzed, 5; equaled guaranty.
- Chemical Products Corporation, Cincinnati, O. Inspection samples analyzed, 2.
"Abattoir Brand" 50% Protein Meat and Bone Scraps, 1; equaled guaranty.
"Abattoir Brand" 60% Protein Digester Tankage, 1; equaled guaranty.
- The Cincinnati Grain & Hay Co., Cincinnati, O. Inspection samples analyzed, 4.
"Standard" 16% Protein Dairy Feed, 1; equaled guaranty.
"No-Better Brand" 16% Protein Sweet Dairy Feed, 1; equaled guaranty.
"No-Better Brand" 20% Protein Sweet Dairy Feed, 1; oat product present tho not guaranteed.

- "No-Better Brand" 24% Protein Sweet Dairy Ration, 1; deficient in fat.
- Citizens Milling Co., Somerset, Ky. Inspection samples of Cumberland Special Mixed Feed analyzed, 2; much deficient in protein; 1 ingredients not as guaranteed; misbranded.
- City Roller Mills, Vevay, Ind. Inspection samples analyzed, 2.
- "Blue Ribbon" Wheat Mixed Feed and Screenings, 1; ground corn present.
- "Blue Ribbon" 18% Protein Laying Mash, 1; no dried milk products, corn gluten meal or cod liver oil found; misbranded.
- Clarkson Milling Co., Clarkson, Ky. Inspection samples of "Special" Mixed Feed analyzed, 2; 1 deficient in protein.
- Climax Roller Mills, Shelbyville, Ky. Inspection samples analyzed, 3.
- Climax Wheat Brown Shorts, 1; deficient in protein and fat; corn product present; misbranded.
- Farm Feed, 1; deficient in protein.
- Climax Scratch Feed, 1; deficient in protein.
- Clinton Hatchery, Clinton, Ky. Inspection sample of "New Deal" 19% Protein Egg Mash analyzed, 1; equaled guaranty.
- Clell Coleman & Sons, Burgin, Ky. Inspection sample of Coleman's Wheat White Middlings and Shorts analyzed, 1; equaled guaranty.
- Colonial Milling Co., Nashville, Tenn. Inspection samples of Colonial's Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- The Columbus Rendering Co., Columbus, O. Inspection samples analyzed, 3.
- "Coreco" 50% Protein Meat and Bone Scraps, 2; 1 deficient in fat.
- "Coreco" 60% Protein Digester Tankage, 1; equaled guaranty.
- Community Flour Mills, Greenup, Ky. Inspection samples analyzed, 3.
- "Best Yet Brand" Mixed Feed, 2; 1 deficient in protein and excess fiber, corn meal, corn cob and oat hull feed present tho not guaranteed—misbranded.
- "Two-Way" 16% Protein Dairy Feed, 1; equaled guaranty.
- Geo. Couch & Sons, New Harmony, Ind. Inspection samples of Harmony Wheat Bran analyzed, 2; 1 deficient in protein.
- Crescent Roller Mills Co., Taylorsville, Ky. Inspection samples analyzed, 3.
- Crescent Mixed Feed, 1; excess fiber.
- Crescent 17% Protein Starter and Grower, 1; equaled guaranty.
- Crescent Stock Feed, 1; equaled guaranty.
- Daugherty Coal & Feed Co., Flemingsburg, Ky. Inspection samples analyzed, 3.
- "Big Buy" 15% Protein Starting All-Mash, 1; no dried buttermilk found.

- "Big Buy" 16% Protein Egg All-Mash, 1; deficient in protein; no dried buttermilk found.
- "Big Buy" 16% Protein Dairy Feed, 1; much deficient in protein; ingredients not as guaranteed; misbranded.
- Dearborn Mills, Aurora, Ind. Inspection samples analyzed, 17.
- Dearborn Hominy Feed, 1; deficient in fat.
- Dearborn 15% Protein All-Mash Starter and Grower, 1; no dried buttermilk found.
- Dearborn 17% Protein Chick Starter, 1; no dried buttermilk found.
- Dearborn 19% Protein Layer Mash, 2; equaled guaranty.
- "Success Brand" 20% Protein Layer Mash, 1; equaled guaranty.
- "Success Brand" Horse and Mule Feed, 1; deficient in protein.
- Dearborn 16% Protein Pig and Hog Ration, 2; equaled guaranty.
- Dearborn 36% Protein Pig and Hog Supplement, 1; ground corn present tho not guaranteed.
- "Success Special" 16% Protein Dairy Feed, 2; 1 deficient in fat; 1 deficient in protein and excess fiber, wheat bran present tho not guaranteed.
- Dearborn 17% Protein Dairy Feed, 2; equaled guaranty.
- Dearborn 20% Protein Dairy Feed, 1; linseed oil meal present tho not guaranteed.
- Dearborn 24% Protein Dairy Feed, 1; equaled guaranty.
- Dearborn 32% Protein Dairy Feed, 1; equaled guaranty.
- Decatur Milling Co., Decatur, Ill. Inspection sample of "Homco" Hominy Feed analyzed, 1; equaled guaranty.
- The Denver Alfalfa Milling & Products Co., Lamar, Colo. Inspection sample of Alfalfa Leaf Meal analyzed, 1; equaled guaranty.
- W. C. Dicken, Mentor, Ky. Inspection samples analyzed, 5.
- "Sunny Grain Brand" 17% Protein Chick Starter, 1; no dried buttermilk found.
- "Sunny Grain Brand" 18% Protein Chick Grower, 1; equaled guaranty.
- "Sunny Grain Brand" 20% Protein Laying Mash, 1; excess fiber; alfalfa meal present tho not guaranteed.
- "Sunny Grain Brand" 17% Protein Hog Feed, 1; equaled guaranty.
- "Sunny Grain Brand" 24% Protein Dairy Feed, 1; deficient in protein.
- Dixie Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 11.
- Dixie 16% Protein All-Mash, 2; equaled guaranty.
- Dixie 17% Protein Starter and Grower Mash, 1; equaled guaranty.
- Dixie 18% Protein Egg Mash, 2; equaled guaranty.
- Dixie Powergrain Brand Horse and Mule Feed, 1; equaled guaranty.
- Dixie 15% Protein Hog Feed, 1; fish meal present tho not guaranteed.

- Dixie 20% Protein Pig and Sow Feed, 1; equaled guaranty.
Dixie 40% Protein Hog Supplement, 1; deficient in protein.
Dixie 16% Protein Dairy Feed, 1; equaled guaranty.
Dixie 24% Protein Dairy Feed, 1; equaled guaranty.
- Dull & Dull, Weston, O. Inspection samples of Alfalfa Meal analyzed, 2; equaled guaranty.
- Duncan & Theis, La Grange, Ky. Inspection sample of "Dairy Maid" 24% Protein Dairy Feed analyzed, 1; equaled guaranty.
- The Early & Daniel Co., Cincinnati, O. Inspection samples analyzed, 40.
Alfalfa Meal, 1; equaled guaranty.
Alfalfa Leaf Meal, 1; equaled guaranty.
Corn Gluten Feed, 1; equaled guaranty.
Tuxedo Flour Middlings, 1; equaled guaranty.
Tuxedo Hominy Meal, 3; 1 deficient in fat.
Tuxedo 50% Protein Meat Scrap, 1; deficient in protein.
Tuxedo 20% Protein Starting Mash, 1; equaled guaranty.
Tuxedo 17½% Protein Starting and Growing All-Mash, 1; equaled guaranty.
Tuxedo 17% Protein Growing and Developing Mash, 1; equaled guaranty.
Tuxedo 17½% Protein Starter, Grower and Developer Mash, 1; equaled guaranty.
Tuxedo 20% Protein Egg Mash, 2; 1 no corn gluten meal found.
Tuxedo 20% Protein Special Egg Mash, 1; equaled guaranty.
"Eadan" 20% Protein Egg Mash, 1; equaled guaranty.
Tuxedo 24% Protein Turkey Starting Mash, 1; equaled guaranty.
Tuxedo 21% Protein Turkey Growing and Developing Mash, 1; equaled guaranty.
Tuxedo Chop, 1; equaled guaranty.
Tuxedo 13½% Protein Sheep Feed, 3; equaled guaranty.
Tuxedo 19% Protein Hog Ration, 1; equaled guaranty.
Tuxedo Big Forty 40% Protein Hog Supplement, 1; equaled guaranty.
Tuxedo 14½% Protein Pig Meal, 1; equaled guaranty.
Tuxedo 15½% Protein Porkmaker, 1; equaled guaranty.
"Eadan" 16% Protein Dairy Feed, 2; equaled guaranty.
"Tuxedo Special" 16% Protein Dairy Feed, 3; 2 deficient in fat; 1 excess fiber.
"Economy Special" 16% Protein Dairy Feed, 1; deficient in fat and excess fiber.
Tuxedo 20% Protein Dairy Feed, 2; equaled guaranty.
"Tuxedo Special" 20% Protein Dairy Feed, 1; equaled guaranty.
Tuxedo 24% Protein Dairy Feed, 1; equaled guaranty.
"Tuxedo Special" 24% Protein Dairy Feed, 1; equaled guaranty.
"Eadan" 24% Protein Dairy Feed, 1; equaled guaranty.
"Our Pride" Special 24% Protein Dairy Feed, 1; equaled guaranty.

- Tuxedo 33% Protein Dairy Supplement, 1; equaled guaranty.
- The F. L. Emmert Co., Cincinnati, O. Inspection sample of "Molasso-Malt Brand" 22% Protein Brewers Dried Grains and Molasses analyzed, 1; equaled guaranty.
- John W. Eshelman & Sons, Lancaster, Pa. Inspection samples analyzed, 16.
- "Eshelman Red Rose" 16% Protein All-Mash Starter and Grower (With Cod Liver Oil), 1; excess fiber
- "Eshelman Red Rose" 17% Protein Growing Mash (With Cod Liver Oil), 1; equaled guaranty.
- "Eshelman Red Rose" 17% Protein Broiler Ration (With Cod Liver Oil), 1; no linseed oil meal found.
- "Eshelman Red Rose" 14% Protein Fattening Mash, 1; equaled guaranty.
- "Eshelman Pennsy" 18% Protein Laying Mash, 1; equaled guaranty.
- "Eshelman Red Rose" 20% Protein Laying Mash, 1; equaled guaranty.
- "Eshelman Maintenance" 20% Protein Laying Mash, 1; equaled guaranty.
- "Eshelman Red Rose" 24% Protein Turkey Starter (With Cod Liver Oil), 1; equaled guaranty.
- "Eshelman Red Rose" 18% Protein Turkey Grower (With Cod Liver Oil), 1; equaled guaranty.
- Eshelman "S. O. S." Feed, 1; no calcium carbonate found.
- "Eshelman Red Rose" 15% Protein Sheep Feed, 1; equaled guaranty.
- "Eshelman Red Rose" 32% Protein Mixing Supplement, 1; equaled guaranty.
- "Eshelman Red Cow" 16% Protein Dairy Feed, 2; excess fiber; 1 distillers dried grains present tho not guaranteed.
- "Eshelman Pennsy" 16% Protein Dairy Feed, 1; no bone meal or calcium carbonate found.
- "Eshelman Challenge" 24% Protein Dairy Feed, 1; equaled guaranty.
- Evans Milling Co., Indianapolis, Ind. Inspection samples of "Emco" Hominy Feed analyzed, 2; equaled guaranty.
- Excelsior Milling Co., Minneapolis, Minn. Inspection sample of Camel Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Exchange Milling Co., Sturgis, Ky. Inspection samples of Smith's Special 16% Protein Dairy Feed analyzed, 2; much deficient in protein; 1 deficient in fat, ingredients not as guaranteed; mis-branded.
- The Farmers Granary Co., Van Wert, O. Inspection samples analyzed, 2.
- Stemen's 18% Protein Laying Mash, 1; no corn gluten meal found; ground oats present tho not guaranteed.
- 24% Protein Dairy Ration, 1; deficient in protein.
- The Farmers Mill, Clay, Ky. Inspection sample of Mixed Feed

- analyzed, 1; deficient in protein; corn meal present tho not guaranteed.
- Farmers Milling Co., Somerset, Ky. Inspection samples analyzed, 2.
Mixed Feed, 1; equaled guaranty.
- Farmers Stock Feed, 1; deficient in protein; corn gluten meal present tho not guaranteed.
- Farmers & Merchants Milling Co., Brooksville, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein:
- Farmers Union Mill, Versailles, Ky. Inspection sample of Mixed Feed analyzed, 1; wheat flour and weed seeds present.
- J. H. Fedders' Son, Covington, Ky. Inspection samples of Hominy Feed analyzed, 2; equaled guaranty.
- Ferncliff Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 10.
- Cracker Jack 41% Protein Soybean Oil Cake Meal, 1; equaled guaranty.
- Cracker Jack Solvent 44% Protein Soybean Oil Cake Meal, 1; equaled guaranty.
- P. D. Q. 17% Protein Starting and Growing Mash, 1; equaled guaranty.
- P. D. Q. 18% Protein Egg Mash, 1; equaled guaranty.
- P. D. Q. No. 1 85% Grain Horse and Mule Feed, 2; 1 deficient in protein.
- P. D. Q. 16% Protein Dairy Feed, 2; 1 deficient in fat and excess fiber.
- Cracker Jack 24% Protein Sweet Dairy Ration, 1; equaled guaranty.
- "Ferncliff No. 1 Brand" 24% Protein Dairy Ration, 1; equaled guaranty.
- Henry Fischer Packing Co., Louisville, Ky. Inspection samples of "Mellwood Brand" 60% Protein Digester Tankage analyzed, 2; equaled guaranty.
- Flaherty Roller Mills, Vine Grove, Ky. Inspection samples analyzed, 4.
- Mixed Feed, 1; deficient in protein.
- "Flavo Brand" 16½% Protein Starter Mash, 1; equaled guaranty.
- "Flavo Brand" 20% Protein Egg Mash, 1; deficient in protein; alfalfa meal present tho not guaranteed.
- "Golden Grain" 20% Protein Egg Mash, 1; deficient in protein.
- Frankfort Distilleries, Inc., Louisville, Ky. Inspection sample of Ground Screenings analyzed, 1; deficient in protein.
- Henry Fruechtenicht, Louisville, Ky. Inspection samples analyzed, 7.
- "Producer Brand" 20% Protein Laying Mash, 1; equaled guaranty.
- "Producer Brand" 16% Protein Dairy Feed, 3; 1 no alfalfa meal found.

- "Arrow" 20% Protein Dairy Feed, 1; equaled guaranty.
- "Blue Grass" 24% Protein Dairy Feed, 2; 1 no linseed oil meal found; 1 only trace of linseed oil meal found.
- Fuhrer-Ford Milling Co., Mt. Vernon, Ind. Inspection samples analyzed, 2.
- Wheat Bran, 1; excess fiber.
- Wheat Gray Shorts and Screenings, 1; equaled guaranty.
- Garden Street Mill & Elevator Co. (Aubrey & Co.), Louisville, Ky. Inspection samples analyzed, 5.
- "Garden" Poultry Scratch Feed, 1; only trace of kaffir corn present.
- "Garden" 16% Protein Dairy Feed, 4; 3 deficient in fat.
- Garrard Mills, Lancaster, Ky. Inspection sample of "Glen Lily" Mixed Feed analyzed, 1; ground barley and salt present tho not guaranteed.
- General Mills, Minneapolis, Minn. Inspection samples analyzed, 4.
- "Ben Hur" Wheat Brown Shorts and Screenings, 1; deficient in protein.
- "Sonny South" Wheat Brown Shorts and Screenings, 1; equaled guaranty.
- "Washburn's Gold Medal" Hard Wheat Adrian Red Dog, 1; equaled guaranty.
- "Pittsburgh Brand" Feed and Screenings, 1; equaled guaranty.
- Glasgow Milling Co., Glasgow, Ky. Inspection samples of Mixed Feed analyzed, 2; 1 deficient in protein.
- Glass Milling Co., Wilmore, Ky. Inspection samples of "Bouquet" Mixed Feed analyzed, 2; equaled guaranty.
- Edw. F. Goeke Sons, Evansville, Ind. Inspection samples analyzed, 6.
- "Standard Brand" Horse and Mule Feed, 2; deficient in protein and excess fiber; misbranded.
- Goeke's 40% Protein Hog Supplement, 1; equaled guaranty.
- "A-1 Brand" 16% Protein Dairy Feed, 3; 2 excess fiber; 1 deficient in protein, excess oat hull feed present, adulterated and misbranded.
- Goff Milling Co., Hiseville, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Goldcamp Mill Co., Ironton, O. Inspection samples analyzed, 8.
- "Gold-Co Egg-O Brand" 18% Protein Laying Mash, 1; deficient in protein; ground barley present tho not guaranteed.
- 17% Protein Pig and Hog Grower, 1; equaled guaranty.
- Mixed Stock Feed, 1; equaled guaranty.
- "Gold-Co" 16% Protein Dairy Feed, 3; 2 deficient in protein; 1 excess screenings present.
- "Mil-Co" 24% Protein Dairy Feed, 2; 1 no oat hull feed found.
- Gooch & Son, Waynesburg, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Grayson Milling Co., Grayson, Ky. Inspection samples analyzed, 6.

- "Blue Grass" Wheat Gray Middlings and Screenings, 1; deficient in fat.
- "Blue Grass" Cracked Corn, 1; equaled guaranty.
- Corn By-product Feed, 1; excess fiber.
- "K-Y" 20% Protein Egg Mash, 1; no dried buttermilk found; calcium carbonate present tho not guaranteed.
- "K-Y" 16½% Protein Dairy Feed, 1; no oat hull feed or cob meal found; ground corn and screenings present tho not guaranteed.
- "K-Y Special" 16% Protein Dairy Feed, 1; equaled guaranty.
- Green River Feed Co., S. Carrollton, Ky. Inspection samples analyzed, 2.
- "Big Sixteen" 16% Protein Dairy Feed, 1; excess fiber, cottonseed meal present tho not guaranteed.
- "Green River" 16% Protein Dairy Feed, 1; deficient in fat; soybean oil meal substituted for ground soybeans.
- Gwinn Bros. & Co., Huntington, W. Va. Inspection samples analyzed, 10.
- Gwinn's Wheat Brown Middlings and Screenings, 1; equaled guaranty.
- Screened Cracked Corn, 1; equaled guaranty.
- Mixed Feed, 1; excess screenings present.
- "Merit Brand" 18% Protein Laying Mash, 1; equaled guaranty.
- "Merit Brand" 16% Protein Dairy Feed, 3; 2 much deficient in protein, ingredients not as guaranteed, adulterated and misbranded.
- "Merit Brand" 24% Protein Dairy Feed, 2; deficient in protein; 1 excess screenings refuse present, misbranded.
- "Gwinn's Grade A Brand" 24% Protein Dairy Feed, 1; deficient in fat; no cottonseed meal or distillers dried grains found.
- The Gwinn Milling Co., Columbus, O. Inspection sample of Gwinn's Wheat Feed and Screenings analyzed, 1; equaled guaranty.
- Hales & Hunter Co., Chicago, Ill. Inspection samples analyzed, 12.
- "Red Comb" 18% Protein Chick Starter, 1; equaled guaranty.
- "Red Comb" 26% Protein Game Bird Starter, 1; deficient in protein; no charcoal found.
- "Red Comb" 17% Protein Growing Mash, 1; no charcoal found.
- "Red Comb" 13% Protein Crate Fattener, 2; equaled guaranty.
- "Red Comb" 18% Protein Universal Poultry Mash, 1; equaled guaranty.
- "Red Comb" 21% Protein Turkey Grower, 2; equaled guaranty.
- "Gold Flake" 16% Protein Dairy Feed, 3; equaled guaranty.
- "Red Horn" 24% Protein Dairy Feed, 1; equaled guaranty.
- Hancock & Franklin Mills (Henry Fruechtenicht), Louisville, Ky. Inspection sample of Brookside Stock Feed analyzed, 1; equaled guaranty.
- Harralson's Feed & Seed Store, Owensboro, Ky. Inspection samples of "Up-To-Date" 18½% Protein Egg Mash analyzed, 2; 1 no dried buttermilk found.

- R. L. Harrison & Son, Bagdad, Ky. Inspection samples analyzed, 9.
Corn Feed Meal, 1; equaled guaranty.
Hominy Meal, 1; deficient in fat.
Harrison's Farm Feed, 1; deficient in protein.
Harrison's 18% Protein Starter and Grower Mash, 1; no dried buttermilk found.
Harrison's 16% Protein Hog and Pig Feed, 1; soybean oil meal present tho not guaranteed.
Bulky 16½% Protein Dairy Feed, 1; equaled guaranty.
"Harrison's Nat-Ur-Way Brand" 16% Protein Sweet Dairy Feed, 1; equaled guaranty.
"Harrison's Nat-Ur-Way Brand" 24% Protein Sweet Dairy Feed, 2; no corn gluten feed found.
- The P. H. Harsha Milling Co., Portsmouth, O. Inspection samples analyzed, 5.
Harsha's Wheat Gray Middlings and Screenings, 1; deficient in protein and fat.
"Purity Brand" Hominy Feed, 2; much deficient in fat; misbranded; 1 excess fiber.
Magnolia 20% Protein Egg Mash, 1; much deficient in protein; deficient in fat; no corn gluten feed or linseed oil meal found; misbranded.
"Jersey Brand" 16% Protein Dairy Feed, 1; ingredients not as guaranteed; misbranded.
- Edwin C. Hawkins, Paducah, Ky. Inspection sample of "Topsy" 18½% Protein Laying Mash, 1; deficient in protein; cottonseed meal present tho not guaranteed.
- G. M. Haycraft & Son, Leitchfield, Ky. Inspection sample of 20% Protein Summer Laying Mash analyzed, 1; equaled guaranty.
- Haydon Mill & Grain Co., Springfield, Ky. Inspection samples analyzed, 3.
"Economy Brand" Mixed Feed, 1; equaled guaranty.
"Economy Brand" 18% Protein Starting Mash, 1; equaled guaranty.
"Lay Quick Economy Brand" 18½% Protein Laying Mash, 1; soybean oil meal, alfalfa leaf meal and ground oats present tho not guaranteed.
- Dr. Heinz Co., Cincinnati, O. Inspection sample of "Heinz Nu-Way" 32% Protein Sheep and Lamb Supplement analyzed, 1; deficient in protein and excess fiber.
- J. H. Heishman Co., Monticello, Ky. Inspection sample of Heishman's Feed analyzed, 1; deficient in protein.
- Henderson Elevator Co., Henderson, Ky. Inspection samples of "Bullitt's Jersey Cream Brand" 16% Protein Dairy Feed analyzed, 4; equaled guaranty.
- V. E. Herter & Co., Dayton, O. Inspection samples analyzed, 7.
Eagle 16% Protein Starting and Growing All-Mash, 1; equaled guaranty.

- Economy Brand 17% Protein Growing Mash, 1; equaled guaranty.
- Yankee 20% Protein Laying Mash, 2; equaled guaranty.
- Yankee 15% Protein Hog Feed, 1; equaled guaranty.
- Economy Brand 16% Protein Dairy Feed, 1; no cottonseed meal found.
- Eagle 24% Protein Dairy Feed, 1; equaled guaranty.
- Dr. Hess & Clark, Inc., Ashland, O. Inspection samples analyzed, 2.
- Dr. Hess Hog Special, 1; equaled guaranty.
- Dr. Hess Stock Tonic, 1; equaled guaranty.
- Higginsville Flour Mill, Higginsville, Mo. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; deficient in protein and excess fiber
- Hopkinsville Milling Co., Hopkinsville, Ky. Inspection sample of Sunflower Wheat Gray Shorts and Screenings analyzed, 1; excess fiber.
- Horse Cave Mills, Horse Cave, Ky. Inspection samples of "Superior Brand" Mixed Feed analyzed, 2; deficient in protein; wheat flour present.
- Humphreys-Godwin Co., Memphis, Tenn. Inspection sample of "Dixie Brand" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Igleheart Bros., Evansville, Ind. Inspection samples analyzed, 2.
- Winter Wheat Gray Shorts and Screenings, 1; equaled guaranty.
- Champion Stock Feed, 1; equaled guaranty.
- Illinois Cereal Mills, Paris, Ill. Inspection samples of Hominy Feed analyzed, 6; 3 deficient in fat.
- Illinois Soy Products Co., Springfield, Ill. Inspection sample of "Sinco" 41% Protein Soybean Oil Meal analyzed, 1; equaled guaranty.
- J. F. Imbs Milling Co., Belleville, Ill. Inspection sample of "Charm" Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Jackson Cotton Oil Mill, Jackson, Tenn. Inspection sample of "Bell Cow Brand" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Jellico Grocery Co., Corbin, Ky. Inspection samples of "Daisy" Feed analyzed, 2; deficient in protein.
- J. E. M. Milling Co., Frankfort, Ky. Inspection samples analyzed, 4.
- "Capitol" 18½% Protein Egg Mash, 1; equaled guaranty.
- "Capitol" Stock Feed, 1; no corn oil meal found; corn gluten feed present tho not guaranteed.
- "Capitol" 16% Protein Dairy Feed, 1; no ground barley found; lespedeza seed screenings present tho not guaranteed; mis-branded.
- "Capitol" 24% Protein Dairy Feed, 1; equaled guaranty.
- The E. Kahn's Sons Co., Cincinnati, O. Inspection sample of "Diamond K" 60% Protein Digester Tankage analyzed, 1; equaled guaranty.

- Kasco Mills, Toledo, O. Inspection samples analyzed, 11.
"Apex" 15% Protein All-Mash Starter and Grower, 1; deficient in protein.
"Apex" 16% Protein Starter and Grower, 1; excess fiber; no dried milk product found.
"Apex" 18% Protein Egg Mash, 2; 1 deficient in protein.
Kasco Farm Feed, 1; equaled guaranty.
"Apex" 16% Protein Hog Feed, 1; equaled guaranty.
Kasco Sweet 16% Protein Dairy Feed, 2; 1 excess fiber.
"Apex" 24% Protein Dairy Feed, 2; 1 screenings refuse substituted for oat hull feed.
Oc-Sak 24% Protein Dairy Feed, 1; equaled guaranty.
- Keco Milling Co., McKenzie, Tenn. Inspection samples analyzed, 6.
41% Protein Cottonseed Meal, 1; equaled guaranty.
"Thrifty" 18% Protein Laying Mash, 1; equaled guaranty.
Keco 18% Protein Pig and Hog Feed, 3; 1 only traces of linseed oil meal and fish meal found.
Keco 16% Protein Dairy Feed, 1; ground barley product present tho not guaranteed.
- Keller Hay & Grain Co., Newport, Ky. Inspection sample of Hominy Feed analyzed, 1; equaled guaranty.
- Kemo Mills (Kasco Mills), Toledo, O. Inspection sample of "Kayo" Farm Feed analyzed, 1; equaled guaranty.
- The Kentucky Rendering Co., Taylorsville, Ky. Inspection sample of "Blue Grass" 60% Protein Tankage analyzed, 1; deficient in protein.
- F. W. Kibler Milling Co., Mt. Orab, O. Inspection samples analyzed, 5.
Kibler's 16% Protein Chick Starter, 1; ingredients not as guaranteed; misbranded.
Kibler's 17% Protein Growing Mash, 1; ingredients not as guaranteed; misbranded.
Kibler's 18% Protein Egg Mash, 1; equaled guaranty.
"Par Value" 18% Protein Egg Mash, 1; no linseed oil meal found; not tagged and sold in violation of the law.
"Par Value" 16% Protein Dairy Feed, 1; excess fiber; no distillers dried grains found; not tagged and sold in violation of the law.
- The Kroger Grocery & Baking Co., Cincinnati, O. Inspection samples analyzed, 10.
Wesco 16% Protein Starting and Growing Mash, 1; corn gluten product and soybean oil meal present tho not guaranteed.
Kroger's Wesco 20% Protein Egg Mash, 1; equaled guaranty.
Kroger's Wesco 16% Protein Dairy Feed, 4; 1 excess screenings present.
Kroger's Wesco 20% Protein Dairy Feed, 2; equaled guaranty.
Kroger's Wesco 24% Protein Dairy Feed, 2; equaled guaranty.
- Labrot & Graham, Inc., Frankfort, Ky. Inspection sample of 28%

- Protein Distillers Corn Dried Grains analyzed, 1; equaled guaranty.
- Lake County Oil Mill, Tiptonville, Tenn. Inspection sample of 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Lancaster Milling Co., Lancaster, Ky. Inspection samples analyzed, 4.
- Lamico Mixed Feed, 3; 2 deficient in protein; 2 excess fiber; 1 ground barley product present tho not guaranteed.
- 20% Protein Egg Mash, 1; no dried buttermilk found.
- The Larowe Milling Co., Detroit, Mich. Inspection samples analyzed, 7.
- Dried Beet Pulp, 1; equaled guaranty
- Larro 19% Protein Chick Builder, 1; equaled guaranty
- Larro 20% Protein Egg Mash, 1; equaled guaranty.
- Larro 17½% Protein Pig and Hog Builder, 1; equaled guaranty.
- Larro 19% Protein Turkey Finisher, 1; equaled guaranty.
- Larro 24% Protein Turkey Builder, 1; equaled guaranty.
- Larro, The 20% Protein Ready Ration for Dairy Cows, 1; equaled guaranty.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Inspection samples analyzed, 2.
- "Snowflake" Wheat Gray Middlings and Screenings, 1; equaled guaranty.
- "Farm King" Wheat Gray Shorts and Screenings, 1; equaled guaranty.
- Lewisport Mill Co., Lewisport, Ky. Inspection sample of "Farmers' Choice" Feed analyzed, 1; equaled guaranty.
- Lexington Mineral Co., Lexington, Ky. Inspection sample of "Blue Grass" Sheep Minerals analyzed, 1; no iodine found.
- Lexington Roller Mills, Inc., Lexington, Ky. Inspection samples analyzed, 16.
- Thoroughbred Wheat Bran, 1; equaled guaranty.
- Thoroughbred Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- Kentucky Queen 16% Protein Starting and Growing All-Mash, 2; 1 only trace dried skimmilk present.
- Kentucky Queen 18% Protein Starting Mash, 1; ground barley substituted for barley middlings.
- Kentucky Queen 13½% Protein Crate Fattener, 1; deficient in fat.
- Kentucky Queen 17½% Protein Growing and Developing Mash, 1; equaled guaranty.
- Kentucky Queen 20% Protein Double X Egg Mash, 1; charcoal present tho not guaranteed.
- Kentucky Queen 24% Protein Turkey Starting Mash, 1; equaled guaranty.
- Kentucky Queen 20% Protein Turkey Growing Mash, 1; equaled guaranty.

- Kentucky Queen 32% Protein Turkey Mash Supplement, 1; equaled guaranty.
- "Bossie" Stock Feed, 1; equaled guaranty.
- Thoroughbred 16% Protein Dairy Feed, 1; equaled guaranty.
- Thoroughbred 20% Protein Dairy Feed, 1; equaled guaranty.
- Thoroughbred 24% Protein Dairy Feed, 2; equaled guaranty.
- Lincoln Milling Co., Crab Orchard, Ky. Inspection sample of "Blue Bird" Feed analyzed, 1; much deficient in protein and excess fiber; misbranded.
- G. W. Lofton & Son, Providence, Ky. Inspection sample of Lofton's Mixed Feed analyzed, 1; equaled guaranty.
- Loretto Mill Co., Loretto, Ky. Inspection sample of Shipstuff and Screenings analyzed, 1; deficient in protein and fat; wheat flour present.
- The Loudonville Milling Co., Loudonville, O. Inspection samples of "Le Grande" Soft Winter Wheat Brown Middlings and Screenings analyzed, 2; equaled guaranty.
- Louisa Supply Co., Louisa, Ky. Inspection samples analyzed, 3.
- Louisa Cracked Corn, 1; equaled guaranty.
- Louisa Standard Feed, 2; 1 deficient in protein.
- Louisville Cereal Mill Co., Louisville, Ky. Inspection samples analyzed, 4.
- "Nonesuch" Hominy Feed, 3; deficient in protein.
- "Nonesuch" Feed, 1; equaled guaranty.
- L. B. Lovitt & Co., Memphis, Tenn. Inspection samples of "Lovitt Brand" 41% Protein Cottonseed Meal analyzed, 4; 1 deficient in protein.
- Lyon & Greenleaf Co., Ligonier, Ind. Inspection sample of Waseo Wheat Gray Middlings analyzed, 1; equaled guaranty.
- Madison Flour Mills, Madison, Ind. Inspection samples analyzed, 4.
- Wheat Brown Middlings, 1; equaled guaranty.
- Mixed Feed, 3; 1 deficient in protein.
- Marianna Sales Co., Memphis, Tenn. Inspection samples of "White Mule Brand" 41% Protein Cottonseed Meal analyzed, 5; equaled guaranty.
- Marion Milling Co., Inc., Marion, Ky. Inspection sample of "Feeders' Favorite" Mixed Feed analyzed, 1; deficient in protein and excess fiber.
- Mayfield Sweet Feed Mill, Mayfield, Ky. Inspection samples analyzed, 3.
- 12½% Protein Dry and Freshening Cow Feed, 1; equaled guaranty.
- "State Leader" 16% Protein Dairy Feed, 1; equaled guaranty.
- Mayfield 24% Protein Dairy Feed, 1; equaled guaranty.
- The Mennel Milling Co., Toledo, O. Inspection sample of Memo Wheat Gray Middlings and Screenings analyzed, 1; equaled guaranty.

- Middlesboro Milling Co., Middlesboro, Ky. Inspection samples analyzed, 9.
"Hard-To-Beat" Feed, 2; 1 ground corn present.
"Hi-Grade Brand" Feed, 1; equaled guaranty.
"Champion Brand" Feed, 1; equaled guaranty.
"Reliable Brand" 20% Protein Hog Feed, 1; deficient in protein.
"Good Value Brand" 16% Protein Dairy Feed, 2; 1 no salt found.
"Reliable Brand" 24% Protein Dairy Feed, 2; equaled guaranty.
- Mississippi Valley Grain Co. (Royal Stafolife Mills), Memphis, Tenn.
Inspection sample of "Sweet Sixteen" (16% Protein) Dairy Feed analyzed, 1; corn gluten product present tho not guaranteed.
- Model Mills, Georgetown, Ky. Inspection sample of "Best Brand" Mixed Feed analyzed, 1; deficient in protein.
- Monarch Milling Co., Mt. Sterling, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Monroe Milling Co., Waterloo, Ill. Inspection sample of Waterloo 16% Protein Dairy Feed analyzed, 1; deficient in fat; ingredients not as guaranteed; adulterated and misbranded.
- Mountain City Mill Co., Chattanooga, Tenn. Inspection samples analyzed, 3.
"Blue Stock" Mixed Feed, 1; soybean oil meal present tho not guaranteed.
"Blue Cow" 16% Protein Feed, 2; equaled guaranty.
- Mt. Vernon Milling Co., Mt. Vernon, Ind. Inspection samples of "Poco" Hominy Feed analyzed, 3; equaled guaranty.
- Nashville Cotton Oil Mill Corporation, Nashville, Tenn. Inspection sample of 41% Protein Cottonseed Meal analyzed, 4; 1 deficient in protein.
- National Distillers Products Corporation, New York, N. Y. Inspection sample of "Produlac Brand" 27% Protein Distillers Corn Dried Grains analyzed, 1; equaled guaranty.
- National Milling Branch of National Biscuit Co., Toledo, O. Inspection samples analyzed, 3.
Wheat Bran, 1; equaled guaranty.
"Namico" Wheat Gray Middlings and Screenings, 1; equaled guaranty.
"Tolio" Wheat Flour Middlings and Screenings, 1; excess fiber.
- National Oats Co., E. St. Louis, Ill. Inspection samples analyzed, 5.
Corno 17% Protein Starting Mash, 1; equaled guaranty.
Corno 20% Protein Laying Mash, 1; no dried whey found.
Nutro 16% Protein Dairy Feed, 1; corn gluten product present tho not guaranteed; no linseed oil meal found.
Corno 24% Protein Dairy Feed, 2; 1 deficient in fat.
- The Neumond Co., St. Louis, Mo. Inspection sample of Neumond's 20% Protein Dehydrated Alfalfa Leaf Meal analyzed, 1; equaled guaranty.

- Newsome Feed & Grain Co., Pittsburg, Pa. Inspection sample of "Palmo Midds" Feed analyzed, 1; equaled guaranty.
- Nicholson Mills, Henderson, Ky. Inspection samples analyzed, 3.
"Numix" Mineral Mixture, 1; equaled guaranty.
"Numix" 16% Protein Special Dairy Feed, 1; deficient in protein and fat and excess fiber.
"Numix" 16% Protein Sweet Dairy Feed, 1; equaled guaranty.
- Nolin Milling Co., Nolin, Ky. Inspection sample of "Royal" Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- North American Fertilizer Co., Inc., Louisville, Ky. Inspection sample of Nafco Wheat Red Dog analyzed, 1; equaled guaranty.
- Chas. Nunn & Sons Milling Co., Evansville, Ind. Inspection samples analyzed, 6.
"Nunn-Better Brand" Wheat Bran and Screenings, 1; equaled guaranty.
"Nunn-Better Brand" Wheat Gray Shorts and Screenings, 1; deficient in protein and fat.
"Nunn-Better Brand" Wheat Mixed Feed and Screenings, 1; equaled guaranty
"Banner" 16% Protein Poultry All-Mash, 1; no dried buttermilk found.
"Nunn-Better Brand" 17% Protein Poultry All-Mash, 2; 1 no salt found.
- Ohio Valley Mills, Lebanon Junction, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and excess fiber.
- Owensboro Milling Co., Owensboro, Ky. Inspection samples analyzed, 10.
Alfalfa Meal, 1; equaled guaranty.
O-Mil-Co Red Dog, 1; equaled guaranty.
"TruTest Brand" Wheat Feed, 1; equaled guaranty.
O-Mil-Co 19% Protein Laying Mash, 1; no dried buttermilk found.
Star Brand Horse Feed, 1; deficient in protein.
"TruTest Brand" Horse Feed, 2; equaled guaranty.
"D & H" Stock Feed, 2; 1 excess fiber.
Star Brand 16½% Protein Dairy Feed, 1; equaled guaranty.
- I. E. Payne, Eubank, Ky. Inspection sample of "Farmers' Choice" Wheat Mixed Feed and Screening analyzed, 1; deficient in protein; ground wheat present.
- S. T. Pease Jr. & Co., Memphis, Tenn. Inspection samples of "Pease" 41% Protein Cottonseed Meal analyzed, 5; equaled guaranty.
- The Pecos Valley Alfalfa Meal Co., Chandler, Ariz. Inspection sample of Alfalfa Meal analyzed, 1; equaled guaranty.
- Pembroke Roller Mills, Pembroke, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Phoenix Flour Mills, Evansville, Ind. Inspection sample of Wheat Bran analyzed, 1; equaled guaranty.

- Phoenix Milling Co., Providence, Ky. Inspection samples of Mixed Feed analyzed, 3; 1 deficient in protein, excess corn product present.
- Pillsbury Flour Mills Co., Minneapolis, Minn. Inspection samples analyzed, 2.
- Pillsbury's Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- "Pillsbury's Five Point" 18% Protein Laying Mash, 1; ingredients not as guaranteed; misbranded.
- The R. C. Poage Milling Co., Ashland, Ky. Inspection samples analyzed, 11.
- Pomco Corn Feed Meal, 1; equaled guaranty.
- Pomco Wheat Gray Middlings and Screenings, 1; equaled guaranty.
- Pomco 17% Protein All-Mash Starter and Grower (With Cod Liver Oil), 1; soybean oil meal present tho not guaranteed.
- Pomco 20% Protein Laying Mash (With Cod Liver Oil), 1; equaled guaranty.
- Pomco 15% Protein Hog and Pig Feed (Complete Ration), 1; soybean oil meal present tho not guaranteed; no charcoal found.
- "Ideal Brand" Stock Feed, 1; deficient in protein.
- "Vim Brand" 16% Protein Dairy Feed, 2; 1 no malt sprouts found.
- Pomco 16% Protein Dairy Feed, 1; equaled guaranty.
- "Vim Brand" 24% Protein Dairy Feed, 1; equaled guaranty.
- Pomco 24% Protein Dairy Feed, 1; equaled guaranty.
- Poole Milling Co., Poole, Ky. Inspection samples of Mixed Feed analyzed, 2; wheat flour present; 1 deficient in protein.
- Pratt Food Co., Hammond, Ind. Inspection samples analyzed, 4.
- Pratt's 17% Protein Starter and Grower, 1; equaled guaranty.
- Utility Brand 17% Protein Growing Mash, 1; equaled guaranty.
- Pratt's Sweet 16% Protein Dairy Feed, 1; no wheat germ or linseed oil meal found; excess screenings present; misbranded.
- Pratt's Animal Regulator, 1; equaled guaranty.
- Purcell Seed Co., Inc., Evansville, Ind. Inspection samples of "New Idea" All-Mash Poultry Ration analyzed, 3; 1 deficient in protein; 1 excess fiber.
- The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 13.
- "Ful-O-Pep" 19% Protein Broiler Mash, 1; equaled guaranty.
- "Ful-O-Pep" 19% Protein Growing Mash, 2; 1 no dried milk product found.
- "Ful-O-Pep" 13% Protein Crate Fattener, 1; excess fiber.
- "Ful-O-Pep" 20% Protein Egg-Breeder Mash, 1; equaled guaranty.
- "Ful-O-Pep" 20% Protein Laying Mash, 1; equaled guaranty.
- "Ful-O-Pep" 26% Protein Turkey Starter, 1; equaled guaranty.
- "Ful-O-Pep" 20% Protein Turkey Grower, 1; equaled guaranty.

- Quaker 40% Protein Hog Feed Supplement, 1; equaled guaranty.
"Vim Brand" Oat Hull Feed, 1; equaled guaranty.
Quaker Schumacher Sweet Feed, 3; equaled guaranty.
Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 33.
Purina 18% Protein Chick Startena, 2; equaled guaranty.
Purina 18% Protein Broiler Chow, 1; equaled guaranty.
Purina 15% Protein Chick Growena All-Mash, 1; equaled guaranty.
Purina 15½% Protein Layena (Complete Ration), 1; equaled guaranty.
Purina 21% Protein Breeder Lay Chow, 1; equaled guaranty.
Purina 21% Protein Lay Chow, 1; no dried buttermilk found.
Purina 18% Protein Family Flock Chow, 1; ground oats present tho not guaranteed.
Purina 24% Protein Turkey Startena, 1; equaled guaranty.
Purina 18% Protein Turkey Growena, 1; equaled guaranty.
Purina 14% Protein Turkey-Chicken Fatena Checkers, 1; equaled guaranty.
Purina 16½% Protein Turkey Layena (Complete Ration), 1; equaled guaranty.
Purina 32% Protein Chowder Supplement, 1; fish meal present tho not guaranteed.
Purina Blue Checker 12% Protein Lamb Fatena, 1; equaled guaranty.
Purina 23% Protein Steer Fatena Supplement, 1; equaled guaranty.
Purina 19½% Protein Calf Startena, 2; equaled guaranty.
Purina 13½% Protein Rabbit Chow (Complete Ration), 2; equaled guaranty.
Purina 14% Protein Hog Fatena, 1; equaled guaranty.
Purina 15% Protein Complete Sow and Pig Chow Ration, 1; equaled guaranty.
Purina 26% Protein Sow and Pig Chow Supplement, 1; equaled guaranty.
Purina 36% Protein Hog Chow Supplement, 2; equaled guaranty.
"Purina Pasture Brand" 36% Protein Hog Chow Supplement, 1; equaled guaranty.
Purina 12% Protein Cattle and Sheep Feed, 1; equaled guaranty.
Purina Bulky Las Chow, 1; equaled guaranty.
"Protana Brand" 16% Protein Dairy Feed (Southern States), 2; equaled guaranty.
Purina 18% Protein Milk Chow, 1; equaled guaranty.
Purina 20% Protein Cow Chow, 1; equaled guaranty.
Purina 24% Protein Cow Chow, 1; equaled guaranty.
Protana 24% Protein Dairy Feed, 1; equaled guaranty.
Read Phosphate Co., New Albany, Ind. Inspection sample of "Read

- Red Diamond" 60% Protein Digester Tankage analyzed, 1; equaled guaranty.
- Red Ranger Coal & Feed Co., Nicholasville, Ky. Inspection samples analyzed, 3.
- "Red Ranger" 13% Protein Fattening Mash, 1; equaled guaranty.
- "Red Ranger" 16% Protein Dairy Feed, 1; equaled guaranty.
- "Red Ranger" 24% Protein Dairy Feed, 1; equaled guaranty.
- Reelfoot Co-operative Association, Inc., Tiptonville, Tenn. Inspection samples analyzed, 2.
- Raco Dehydrated Alfalfa Meal, 1; equaled guaranty.
- Raco 20% Protein Dehydrated Alfalfa Leaf Meal, 1; deficient in protein.
- R. D. Riedling, Louisville, Ky. Inspection samples analyzed, 5.
- 25% Protein Corn Gluten Feed, 1; equaled guaranty.
- 41% Protein Soybean Oil Meal, 1; equaled guaranty.
- Ground Oats, 1; deficient in fat and excess fiber.
- Magnolia 17% Protein Chick Starter and Growing Mash, 1; linseed oil meal and ground oats present tho not guaranteed.
- Happy 16% Protein Cow Feed, 1; deficient in protein and fat.
- Ripy Brothers Distillers, Lawrenceburg, Ky. Inspection sample of 30% Protein Distillers Corn Dried Grains analyzed, 1; deficient in protein and fat.
- Robbins Bros., Auburn, Ky. Inspection sample of Wheat Gray Shorts analyzed, 1; deficient in protein.
- Roberts Cotton Oil Mill, Cairo, Ill. Inspection sample of "Missouri Maid" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Rocky Hill Milling Co., Rocky Hill, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Rush County Mills, Rushville, Ind. Inspection samples analyzed, 7.
- Hominy Feed, 1; excess fiber.
- "RCM" 16% Protein All-Mash, 1; equaled guaranty.
- "Imperial Brand" 18% Protein Egg Mash, 1; corn gluten feed present tho not guaranteed; no salt found.
- "RCM" Horse and Mule Feed, 1; equaled guaranty.
- "RCM" 16% Protein Dairy Feed, 2; equaled guaranty.
- "RCM" 24% Protein Dairy Feed, 1; equaled guaranty.
- Sacramento Milling Co., Sacramento, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; deficient in protein.
- Salt Lick Roller Mills, Salt Lick, Ky. Inspection sample of "Perfect Brand" X Mixed Feed analyzed, 1; deficient in protein; wheat flour present tho not guaranteed.
- Sandusky Bros., Harrodsburg, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; excess corn bran present.
- Schultz, Baujan & Co., Beardstown, Ill. Inspection samples analyzed, 4.
- Hard Wheat Red Dog, 1; equaled guaranty.

- Sunbeam Hard Wheat Brown Middlings and Screenings, 1; equaled guaranty.
- "Honest Brand" 18% Protein Egg Mash, 1; no dried butter-milk found.
- "Sweet Clover Brand" 16% Protein Dairy Feed, 1; brewers dried grains present tho not guaranteed.
- The Scott County Milling Co., Sikeston, Mo. Inspection sample of "Gristo" Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Security Mills, Knoxville, Tenn. Inspection samples analyzed, 4.
- Blue Eagle Horse Feed, 1; equaled guaranty.
- Big S Horse Feed, 1; equaled guaranty.
- Blue Eagle 16% Protein Dairy Feed, 1; equaled guaranty.
- "Security Brand" 24% Protein Dairy Feed, 1; equaled guaranty.
- Shepherdsville Roller Mills, Shepherdsville, Ky. Inspection samples analyzed, 2.
- Bullitt Feed, 1; equaled guaranty.
- Silver Leaf 14½% Protein Hog Feed, 1; no ground oats found; soybean oil meal present tho not guaranteed.
- Sims Milling Co., Frankfort, Ind. Inspection sample of Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Simpson County Mills, Franklin, Ky. Inspection samples analyzed, 2.
- Corn Bran, 1; equaled guaranty.
- Mixed Feed, 1; equaled guaranty.
- Slaughters Milling Co., Slaughters, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein and fat; corn feed meal present.
- The W. J. Small Co., Neodesha, Kans. Inspection sample of Alfalfa Meal analyzed, 1; equaled guaranty.
- J. Allen Smith & Co., Knoxville, Tenn. Inspection samples analyzed, 2.
- "Peerless Brand" Feed, 1; equaled guaranty.
- "Butter Fat Brand" Feed, 1; equaled guaranty.
- Smithfield Milling Co., Smithfield, Ky. Inspection samples of Mixed Feed analyzed, 2; 1 much deficient in protein, wheat flour present.
- Somerset Creamery Co., Somerset, Ky. Inspection sample of Dried Skimmed Milk analyzed, 1; equaled guaranty.
- Somerset Hatchery Feed & Seed Co., Somerset, Ky. Inspection sample of "Gothard's Pride" 18% Protein Laying Mash analyzed, 1; equaled guaranty.
- Sphar & Co., Winchester, Ky. Inspection sample of Spartan Ewe Mineral Feed analyzed, 1; equaled guaranty.
- Spencer Kellogg & Sons, Buffalo, N. Y. Inspection samples of Kellogg's 41% Protein Soybean Oil Meal analyzed, 2; equaled guaranty.
- The George T. Stagg Co., Frankfort, Ky. Inspection sample of

- Distillers Corn Dried Grains analyzed, 1; equaled guaranty.
- A. E. Staley Manufacturing Co., Decatur, Ill. Inspection samples analyzed, 13.
- Staley's 41% Protein Soybean Oil Meal, 12; equaled guaranty.
- Staley's 20% Protein Sweetened Corn Gluten Feed, 1; equaled guaranty.
- Staley Milling Co., Kansas City, Mo. Inspection samples analyzed, 3.
- "Hy-Power Brand" Hominy Feed, 1; equaled guaranty.
- "Record Brand" 18% Protein Egg Mash, 1; equaled guaranty.
- "Four Bells" 21% Protein Egg Producer (With Cod Liver Oil), 1; equaled guaranty.
- Stanard-Tilton Milling Co., Alton, Ill. Inspection sample of "American Beauty" Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Standard Milling Co., Elkton, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Star Milling Co., Clinton, Ky. Inspection samples analyzed, 2.
- Wheat Gray Shorts, 1; deficient in protein.
- "Tenn. Special Brand" 16% Protein Dairy Feed, 1; cottonseed meal present tho not guaranteed.
- Star Roller Mills, Cloverport, Ky. Inspection samples analyzed, 2.
- Star 20% Protein Laying Mash, 1; iron oxide present tho not guaranteed.
- Star 18% Protein Dairy Feed, 1; equaled guaranty.
- Sunnyside Milling Co., Evansville, Ind. Inspection sample of Winter Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- D. B. Sutherland & Sons, Bloomfield, Ky. Inspection samples analyzed, 2.
- Sutherland's Farm Feed, 1; corn feed meal present tho not guaranteed.
- Sutherland's Mixed Feed, 1; equaled guaranty.
- Sweet Feed Mills, Inc., Bowling Green, Ky. Inspection samples analyzed, 2.
- "Ace Brand" 16% Protein Dairy Feed, 1; deficient in fat; no cottonseed meal found.
- "Ace XX Brand" 16% Protein Dairy Feed, 1; deficient in fat; no cottonseed meal found.
- Swift & Co., Chicago, Ill. Inspection samples analyzed, 3.
- Swift's 5% Protein Special Steamed Bone Meal, 1; equaled guaranty.
- Swift's 50% Protein Meat and Bone Scraps, 1; equaled guaranty.
- Swift's 20% Protein Egg Mash, 1; equaled guaranty.
- Swift & Co. (Oil Mill), Atlanta, Ga. Inspection samples of "Swift's Cotton Bloom" 41% Protein Cottonseed Meal analyzed, 2; excess fiber.
- Swift & Co. (Oil Mill), Cairo, Ill. Inspection samples of "Cotton

- Bloom" 41% Protein Cottonseed Meal analyzed, 2; 1 deficient in protein.
- Swift & Co. (Oil Mill), Memphis, Tenn. Inspection samples of "Cotton Bloom" 41% Protein Cottonseed Meal analyzed, 4; equaled guaranty.
- Swift & Co. (Soybean Mill), Champaign, Ill. Inspection samples of Swift's 41% Protein Soybean Oil Meal analyzed, 2; equaled guaranty.
- Tell City Flouring Mills, Tell City, Ind. Inspection samples of Hoosier No. 2 Special-Mix Feed analyzed, 2; 1 deficient in protein; 1 no oat hulls or molasses found.
- Thomson's Mill, Madisonville, Ky. Inspection sample of "Star" Mixed Feed analyzed, 1; corn gluten feed present tho not guaranteed.
- Tilford & Walters, Metropolis, Ill. Inspection sample of "Masco" 16% Protein Hog Fattener analyzed, 1; equaled guaranty.
- Topeka Flour Mills Corporation, Salina, Kans. Inspection sample of "K-Y" Wheat Gray Shorts analyzed, 1; equaled guaranty.
- Trenton Cotton Oil Co., Trenton, Tenn. Inspection sample of "Trenton Brand" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Trimble Milling Co., Milton, Ky. Inspection samples of Corn By-product Feed analyzed, 2; equaled guaranty.
- The Ubiko Milling Co., Cincinnati, O. Inspection samples analyzed, 20.
- Ubiko 18% Protein All-Mash Starter, 1; equaled guaranty.
- Ubiko 15% Protein All-Mash Developer, 1; equaled guaranty.
- Ubiko 16% Protein All-Mash Complete Laying Ration, 1; equaled guaranty.
- Ubiko 18% Protein Broiler Ration, 1; equaled guaranty.
- Sunbeam 17% Protein Starter and Grower, 2; equaled guaranty.
- Sunbeam 20% Protein Laying Mash, 1; equaled guaranty.
- Ubiko 20% Protein Egg and Breeder Mash, 1; equaled guaranty.
- Ubiko 25% Protein Turkey Starter and Grower, 1; equaled guaranty.
- Ubiko 25% Protein Turkey Grower, 1; equaled guaranty.
- Ubiko 12% Protein Rabbit Pellets, 1; equaled guaranty.
- Ubiko 16% Protein Pig and Sow Ration, 1; equaled guaranty.
- Sunbeam 14% Protein Pig and Hog Meal, 1; ground barley present tho not guaranteed.
- Honeycomb Sweet Feed, 1; equaled guaranty.
- "Clover Bloom" Sweet 16% Protein Dairy Feed, 2; equaled guaranty.
- Sunbeam 20% Protein Dairy Ration, 1; equaled guaranty.
- Sunbeam 24% Protein Dairy Ration, 1; equaled guaranty.
- Union Grains 24% Protein Sweet Dairy Ration, 2; equaled guaranty.

- The Union National Mill, Springfield, O. Inspection samples of William Tell Wheat Brown Middlings and Screenings analyzed, 5; 4 deficient in protein; 2 deficient in fat; 2 adulterated with excess screenings—misbranded.
- Valier & Spies Milling Corporation, St. Louis, Mo. Inspection sample of Valier's Wheat Bran analyzed, 1; equaled guaranty.
- Van Meter-Terrell Feed Co., Lexington, Ky. Inspection sample of "Viola" 20% Protein Cow Feed analyzed, 1; equaled guaranty.
- C. F. Vissman & Co., Louisville, Ky. Inspection samples analyzed, 4.
Vissman's 50% Protein Ground Meat Scrap, 2; 1 deficient in protein.
Vissman's 60% Protein Digester Tankage, 2; 1 deficient in protein.
- Walton Feed Mills, Walton, Ky. Inspection sample of Big Bone 24% Protein Dairy Ration analyzed, 1; deficient in protein; no cottonseed meal found; soybean oil meal present tho not guaranteed.
- Washburn Crosby Co., Louisville, Ky. Inspection samples analyzed, 3.
"Sonny South" Red Dog, 1; deficient in protein.
"Sonny South" Wheat Bran, 1; equaled guaranty.
"Sonny South" Wheat Brown Shorts and Screenings, 1; equaled guaranty.
- Weisenberger Sanitary Flour Mills, Midway, Ky. Inspection sample of "Repeater" Feed analyzed, 1; deficient in protein; wheat flour present.
- Western Alfalfa Meal Co., Belleville, Ill. Inspection samples analyzed, 2.
Alfalfa Meal, 1; equaled guaranty.
20% Protein Alfalfa Leaf Meal, 1; equaled guaranty.
- West Louisville Mills Co., West Louisville, Ky. Inspection sample of C and W Mixed Feed analyzed, 1; equaled guaranty.
- West Ninth Street Mill, Owensboro, Ky. Inspection sample of "Quality Brand" 15% Protein Pig and Hog Feed, 1; excess fiber; ground cob present; misbranded.
- Wetzel Milling Co., Nicholasville, Ky. Inspection sample of "Premium Brand" Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein.
- Wiedlocher & Sons, Springfield, Ill. Inspection samples analyzed, 7.
Faultless Brand 16% Protein Starting and Growing Mash, 1; excess fiber.
Faultless Brand 20% Protein Egg Mash, 2; equaled guaranty.
Faultless Brand 19% Protein Hog Feed, 1; equaled guaranty.
Congress 16% Protein Dairy Feed, 2; equaled guaranty.
Faultless Brand 24% Protein Dairy Ration, 1; equaled guaranty.

- Williamstown Roller Mills, Williamstown, Ky. Inspection sample of "White Top" 16% Protein Sheep Feed analyzed, 1; equaled guaranty.
- Winchester Milling Co., Winchester, Ky. Inspection samples analyzed, 5.
Screened Cracked Corn, 1; equaled guaranty.
Corn Feed Meal, 1; equaled guaranty.
"Perfection Brand" Feed, 2; deficient in protein.
"Perfection Brand" Wheat Brown Shorts, 1; equaled guaranty.
- Winn & Tobin Milling Co., Leitchfield, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Woolcott Flour Co., Winchester, Ky. Inspection sample of Aztec Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein.
- Woolcott Flour Mills, Lexington, Ky. Inspection sample of "Woolcott's Best Brand" Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Woolcott Milling Co., Harrisburg, Ill. Inspection samples analyzed, 2.
Mixed Feed, 1; equaled guaranty.
"Red Wing" 18% Protein Laying Mash, 1; no linseed oil meal found; corn gluten feed present tho not guaranteed.
- Yopp Seed Co., Paducah, Ky. Inspection sample of Yopp's 16% Protein All-Mash Chick Starting Ration analyzed, 1; equaled guaranty.
- J. W. Zaring Grain & Mill Co., Richmond, Ky. Inspection sample of Bonanza Feed analyzed, 1; deficient in protein; corn feed meal present tho not guaranteed.
- Ziliak & Schafer Milling Co., Evansville, Ind. Inspection samples analyzed, 5.
Elite 18% Protein Egg Mash, 1; deficient in protein; no dried buttermilk found.
Target 16½% Protein Poultry All-Mash, 1; excess fiber; no dried buttermilk or charcoal found.
Target 18% Protein Egg Mash, 1; no ground oats found; oat hull feed present tho not guaranteed; misbranded.
"Lamey's Special" 16% Protein Dairy Feed, 2; equaled guaranty.