

Kentucky Agricultural Experiment Station

UNIVERSITY OF KENTUCKY

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Commercial Feeds in Kentucky in 1944

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The estimated tonnage of commercial feeds consumed in Kentucky during 1944, based on the guaranty tag sale, was 663,039 tons. This was an increase of 5.2 percent over 1943 sales. Of this tonnage, 151,325 tons were dairy feed; 40,000 tons, hog feed; 17,650 tons, horse and mule feed; 194,356 tons, poultry feed; 2,470 tons, rabbit feed; 1,775 tons, sheep feed; 2,105 tons, dog feed; 2,750 tons, mineral feed; 26,725 tons, general stock feed; and 221,936 tons were straight by-product feed and feed of a miscellaneous nature. A summary of estimated sales by class of feed, in tonnage, is given in Table 2.

BETTER KNOWLEDGE OF FEEDS

Modern milling methods remove from grain byproducts used for feed much of certain food nutrients such as protein, minerals, and vitamins, which formerly were left in. Moreover, when soils become depleted of essential mineral nutrients by intensive cultivation and erosion, the quality of the plants grown is lowered, and therefore the average quality of food plants has tended downward during the past few decades. Partly as a result, many supplement mixtures now are on the market to "balance the feed ration."

The Feed Control Department tries to inform and to protect purchasers of commercial feeds by requiring that as much information as

possible be given on the state guaranty tag concerning the composition of feeds offered for sale, including the amount of filler, when used. The amount of filler that can legally be used is restricted to 25 percent. Nevertheless, about 47,245 tons of filler or "yellow tag" feed were sold in Kentucky in 1944, or 7.4 percent of the total amount of feed sold.

The fact that 47,245 tons of yellow-tag feed were sold in the state, though a much smaller percentage amount than usual, indicates that many feeders still are in need of a practical knowledge of feeds and how to select them on the basis of quality and economic productiveness. Successful farmers who raise livestock must understand the value of the feeds they grow on their farms and should know how to supplement their home-grown feeds with suitable material to make a balanced ration. The Feed Control Department is endeavoring to protect the feeder against adulterated and misbranded feeds and to carry as much practical information as possible to him through the guaranty tag, inspection service, correspondence, and publications.

Many manufacturers are rendering a valuable educational service to farmers, and in this they are to be commended. Unfortunately, however, some are confusing the minds of feeders through extravagant claims of salesmen and advertising. Because of this, they are doing the feed industry, as well as the livestock industry, a great harm. Feeders needing help on their feed programs should be encouraged to depend primarily on the county agricultural agent, the Animal Husbandry Department, and the Feed Control Department of the Kentucky Agricultural Experiment Station.

REGISTRATION OF FEED

The feed law of Kentucky requires each and every manufacturer, importer, jobber, agent, or seller to register each and every brand of feed classed as concentrates, or feed materials that have been ground and mixed or processed, with the Kentucky Agricultural Experiment Station, and to label it with a state guaranty tax tag before selling, offering or exposing it for sale. If the manufacturer does not register it, then the law holds any agent or dealer down the line to the seller, responsible for registering and labeling the feed before it is sold to the farmer or offered for sale. If the feed is not registered it may involve any one who is responsible for placing it on the market, and especially the agent or seller who handles it last in the transaction.

The law stipulates in general principles what information is required in registering feeds and what must be contained in the guaranty tag. It also empowers the Director of the Experiment Sta-

tion to adopt standards and to make and enforce such rules and regulations as he may deem necessary to carry into effect the true intent and meaning of the act. The following information, which is the guaranty to the state and to the purchaser, must be given in the registration and printed on the state guaranty tax tag or label which must be attached to each bag containing the feed. Before filling in the registration form, the manufacturer or applicant should read and study carefully the general standards, rules, and regulations which are usually printed on the back of the registration form. If the applicant needs further information, he should write the Feed Control Department of the Agricultural Experiment Station, at Lexington. The following information must be on the guaranty tag:

- Net weight of the contents of bag.
- The brand name of the feed.
- Name and address of the manufacturer or the person responsible for putting the feed on the market.
- Minimum percentage of crude protein.
- Minimum percentage of crude fat.
- Maximum percentage of crude fiber.
- Specific name of each ingredient used in making the feed.

STANDARDS AND REGULATIONS

Chemical standards and regulations have been established by the Feed Control Department. These standards and regulations are modified when experimental evidence and conditions justify such changes.

1. Chemical Standards:	Min- imum Protein	Min- imum Fat	Max- imum Fiber
(a) Standard By-products:			
Alfalfa Leaf Meal			18.00%
Alfalfa Meal	13.00%	1.50%	32.00%
Barley, Ground			6.00%
Buttermilk, Dried		5.00%	
Corn, Chopped, Cracked (Screened)..	8.00%	3.50%	3.00%
Corn, Chopped, Cracked, Ground	9.00%	3.75%	2.50%
Corn Feed Meal	8.00%	3.75%	4.00%
Cottonseed Meal, 41% Protein	41.00%	5.00%	12.00%
Cottonseed Meal, 43% Protein	43.00%	5.50%	10.00%
Hominy Meal, Hominy Feed	10.00%	7.00%	6.00%
Oats, Ground	11.00%	4.50%	12.00%
Rye Middlings or Shorts	15.50%	3.50%	6.00%
Soybean Oil Meal, Expeller.....	41.00%	3.50%	7.00%
Soybean Oil Meal, Solvent.....	44.00%	0.50%	7.00%
Wheat, Ground	12.00%	2.00%	3.00%
Wheat Bran	14.50%	3.75%	10.00%
Wheat Brown Middlings or Shorts.....	16.00%	4.00%	7.50%
Wheat Flour or White Middlings or Shorts	16.00%	3.50%	3.50%

1. Chemical Standards:		Min- imum	Min- imum	Max- imum
		Protein	Fat	Fiber
(a)	Standard By-products:			
	Wheat Gray Middlings or Shorts.....	16.00%	4.00%	6.00%
	Wheat Low Grade Feed Flour	13.00%	2.50%	1.50%
	Wheat Mixed Feed	15.50%	4.00%	8.50%
	Wheat Red Dog (Hard Wheat)	16.00%	4.00%	4.00%
	Wheat Red Dog (Soft Wheat)	14.50%	3.50%	3.50%
(b)	Special-Purpose Mixed Feeds:			
	Dairy Feed	16.00%	3.50%	15.00%
	Hog Feed (Fattening)	13.00%	3.50%	7.00%
	Hog Feed (Growing	16.00%	3.50%	7.00%
	Horse and Mule Feed	9.00%	2.50%	15.00%
	Poultry:			
	All-Mash Broiler Ration	15.00%	4.00%	6.00%
	All-Mash Growing Ration	15.00%	4.00%	6.00%
	All-Mash Laying or Breeder Ration	15.00%	4.00%	7.00%
	All-Mash Poultry Ration	15.00%	4.00%	6.00%
	All-Mash Starting Ration	15.00%	4.00%	6.00%
	All-Mash Starting and Growing Ration	15.00%	4.00%	6.00%
	Chick Grains	9.00%	2.50%	3.50%
	Scratch Grains	9.00%	3.00%	5.00%
	Broiler Mash	17.00%	3.50%	7.00%
	Fattening Mash	13.00%	4.00%	6.00%
	Growing Mash	17.00%	3.50%	7.00%
	Laying or Breeder Mash	18.00%	3.50%	8.00%
	Starting Mash	17.00%	3.50%	6.00%
	Starting and Growing Mash	17.00%	3.50%	7.00%
	Turkey All-Mash Ration	16.00%	4.00%	7.00%
	Turkey Growing Mash	17.00%	3.50%	7.00%
	Turkey Laying Mash	18.00%	3.50%	8.00%
	Turkey Starting Mash	18.00%	3.50%	6.00%
	Turkey Starting and Growing Mash	18.00%	3.50%	7.00%

2. General Requirements for Registration:

- (a) In making registrations, care should be exercised to make the chemical guaranties reasonably close to the actual content of the feed. In other words, arbitrary guaranties will not be accepted as final.
- (b) If a material change is made in the guaranty of a feed, in effect lowering the value of the feed, the name of the feed must be changed also.
- (c) The percentage of protein must form part of the name in all high protein materials and special purpose feeds. Example: 41% Protein Cottonseed Meal, 60% Protein Tankage, 20% Protein Dairy Feed, 17% Protein Growing Mash.
- (d) Oil-mill byproducts containing hulls, screenings and similar materials, thus materially lowering the percentage of crude protein, cannot be called meals, but may be called meal and hulls, or meal and screenings, or feed, or by some proprietary name.

- (e) Any feed containing less than 9% protein and above 15% fiber must be called by the name of its ingredients.
- (f) In naming feeds, the terms "feed" and "ration" should be distinguished. A feed may or may not be a ration. A ration is a complete feed and does not require other feed to be fed in addition to it.

Complex "protein-vitamin-mineral" mixture will not be accepted under proprietary names. All such mixtures must be broken down into basic ingredients, vitamin carriers, minerals, condiments, etc.

3. Ingredients:

- (a) Each *basic ingredient* listed must be present in 3% or more. Basic ingredients include such as corn byproducts, wheat byproducts, oil mill byproducts, meat byproducts, fish meal, alfalfa meal, alfalfa leaf meal, oats, distillers and brewers dried grains, molasses, etc.
- (b) *Vitamin carriers* are materials added to feeds primarily to increase the vitamin content. Most basic ingredients contain some of the vitamins; however, their primary purpose is to furnish nutrients and not to increase the vitamin content of the feed; therefore, they may not be listed as vitamin carriers. Vitamin carriers include such as dried milk products, wheat germ oil, liver meal, dehydrated alfalfa leaf meal, dehydrated cereal grasses, yeast, fish oils, distillers dried solubles, riboflavin product, pure vitamins or other supplements which are for the purpose of increasing the vitamin content of a feed. The vitamin carriers must be grouped as a unit and the total percentage given. If a material has the properties of a basic material and a vitamin carrier and is present in 3% or more, it must be listed as basic.
- (c) *Minerals* generally regarded as dietary factors essential for the normal nutrition of animals and not supplied adequately by the average feed may be added to commercial feeds. These minerals may be grouped together and the total percentage given, or they may be listed separately with the percentage of each ingredient stated. The total percentage must not exceed 3%, except poultry laying and breeding mashers which may contain as much as 4% added minerals provided it does not contain more than 2% calcium carbonate. Bone meal is not included in the percentage of other minerals but is listed separately with the percentage stated.
- (d) Condiments and charcoal are not feed materials. However, they are permitted when percentage amounts are given.
- (e) Materials primarily medicinal or poisonous in nature are prohibited as ingredients in feed.

4. Screenings:

- (a) Percentage of screenings in wheat feeds and statement that they are ground must be given.
- (b) When screenings are used in mixed or special-purpose feeds, the percentage must be stated, and the minimum amounts of protein and fat and the maximum amounts of fiber and ash for such

screenings must be stated in the registration. Samples of such screenings may be required to be furnished on request by the Department.

- (c) If all or part of the immature, broken and light grains and other seeds of commercial value have been removed from screenings, the material must be called "screenings refuse" or "screenings waste."
 - (d) Screenings must be ground fine enough to destroy the germination of all weed seeds present.
- 5. Materials of Little or No Feeding Value:**
- (a) Percentage of material of little or no feeding value must be stated.
 - (b) When organic materials of little or no feeding value as concentrates are used in mixed or special-purpose feeds, the open formula must be given in the registration. The open formula will not be printed on the tag unless there is a good reason why it should. The Department reserves the right.
 - (c) In mixed feeds, the amount of a material or materials of little or no feeding value as a concentrate, must not exceed 25% of the mixture.
- 6. False Registration and Cancellation:**

Improper registration, adulteration or misbranding of a feed not only renders the offender liable to prosecution, but the registration may be canceled by the Department.

SYSTEM OF TAGGING

This Department groups feeds into three general classes: "straight" feeds, "straight mixed" feeds, and "yellow tag" feeds, and labels them accordingly. 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.

"YELLOW TAG" FEED

A yellow tag attached to a bag of feed means that it contains some material of little or no feed value, known as a "filler." These fillers vary widely in chemical and physical composition. They may have some feed value, or may be worthless or even dangerous on account of poisonous weed seeds and other foreign matter, such as dirt and sand, they may contain. Often the feeder has on his place or he can get nearby at a nominal price, material as good and less dangerous to his stock than the filler he buys at a fancy price in a "yellow-tag" feed.

The indiscriminating or the "yellow-tag" feed purchaser is the one responsible for keeping the "yellow-tag" feed mixer in the filler-feed business. However, the manufacturer is not without blame. He buys and mixes these cheap and uneconomical feed materials on price also and in turn sells his concoction to the unsuspecting purchaser who likewise buys on price instead of quality, unaware of the uneconomical results. The manufacturer of filler feeds is not only doing an injustice to the purchaser of these feeds, who can least afford to buy them because of their low productiveness, but he is putting a mark of suspicion on the honesty and integrity of the industry in its efforts to develop the livestock industry, an aim for which all manufacturers should strive.

The records of the department show that most of the violations of the feed law are connected with "yellow-tag," or filler feeds. Fillers are used very largely in 16-percent dairy feed. *Examples:* a sample of an unregistered 16-percent dairy feed, laboratory sample 2954, found on the Kentucky market, representing a car of this feed, contained 65 percent filler which had approximately 817,000 unground weed seeds per 100 pounds of feed. Laboratory sample 2941 had approximately 708,000 unground weed seeds per 100 pounds of the feed. Laboratory sample 4006, had approximately 3,500,000 unground weed seeds per 100 pounds of the feed. In each case, there was a large variety of weed seeds, many being noxious.

This may be illustrated further as follows: The cost (wholesale at Louisville) of 2 tons of dairy feed containing 24 percent protein, 4 percent fat, and 10 percent fiber is \$136. This is \$44 less than the cost (on the same market) of 3 tons of "yellow tag" or "filler" dairy feed containing 16 percent protein, 3.5 percent fat, and 15 percent

fiber. The 2 tons of 24-percent-protein feed contain the same total amount of protein as the 3 tons of yellow-tag feed, 50 pounds less fat, and 500 pounds less fiber. The buyer thus gets very nearly as much food nutrients in the 2 tons of 24-percent-protein feed as in the 3 tons of yellow tag feed at a saving of \$44 in wholesale price. He also gets much better digestibility and quality in the 24-percent-protein feed. He also saves the cost of freight, bags, tax, and handling of one ton of feed. The results in feeding no doubt would give a further saving.

UREA AS A SOURCE OF PROTEIN

Urea is a synthetic nitrogenous compound, white, crystalline, water-soluble, odorless, and practically tasteless. Pure urea contains slightly more than 46 percent nitrogen. However, the grade commonly used in feeds contains 42 percent nitrogen, or a protein equivalent of 262 percent (obtained by multiplying 42, the percentage of nitrogen, by $6\frac{1}{4}$, the factor used in converting nitrogen into protein).

Urea is a comparatively new product in the feed industry, making its appearance as a partial substitute for protein in feeds for ruminants, especially dairy cattle, during the war emergency. In experimental work, by a number of leading experiment stations, in which urea was used as a substitute for part of the protein in ruminants' rations, the results proved satisfactory under certain conditions and limitations. Experimental conditions varied somewhat and some variation in the efficiency of utilization of urea occurred, but in each instance it was found that the nitrogen supplied by the urea was utilized by the animals.

Urea can only be utilized in feeds by ruminants—cattle, sheep and goats—the best results being obtained with dairy cattle. It is not effective in feeding swine, chickens, and horses. Ruminants can utilize the nitrogen in urea and convert it into protein because of the micro-organisms, particularly bacteria, in their stomachs, which convert the nitrogen in the urea into ammonia and the ammonia into proteins which are assimilated by the animal.

The use of urea in feeds must be under strict limitations and conditions. It should not constitute more than 3 percent of the feed mixture and must be thoroughly distributed throughout the mixture. If present in feeds in excessive amounts, it becomes toxic and the effects on stock will depend upon the degree of toxicity produced.

In Kentucky in 1944, urea poisoning was known to occur in 6 herds of dairy cattle, because of excess amounts present in feeds. In 4 herds death of cows was quick and violent; in the other 2 all the cows in the herds became sick and were thrown off of production, and one cow eventually died as a result of the poisoning. Several other in-

stances were called to our attention, in which it was thought by the owners that the feed had made cows sick and some had died. We did not have sufficient information to determine the cause of the trouble at the time, but in the light of later developments, it is now believed to have been due to urea poisoning.

The usual symptoms described by the owners are trembling, stiffening of the body, bloating, spasms, convulsions.

The use of urea in feeds under the present condition is a serious question, and its continued use in Kentucky is contingent entirely upon its control by the mixer.

MINERAL FEEDS

Certain mineral elements are essential to the normal growth and development of animals. On the other hand, there are certain elements which are toxic to animals. Some of the toxic elements have cumulative effect, and even when small amounts are taken into the body over a long period of time produce chronic poisoning.

Animals and plants need smaller amounts of some minerals than others. Such minerals are frequently listed as "minor or trace" elements. Their presence is just as important as the other elements although the amounts required are not as great. Some of the minor elements required by animals are cobalt, copper, iodine, iron, and manganese, and possibly others. Most natural feeds contain adequate amounts of these minerals; however, it is sometimes necessary to supplement the ration with them. Frequently commercial feed manufacturers add them to insure their presence, especially since the additional cost is almost negligible.

The most common mineral deficiencies in feeds are not the minor elements but are calcium, phosphorus, sodium, and chlorine. These may be included in the feed or fed separately as supplements. When minerals are fed as supplements, it is important to keep them before the stock, at all times, in convenient places protected against the weather, so that their consumption will be uniform and adequate.

Purgatives, worm remedies, medicines, poisons, and tonics have no place in stock feeds and supplemental mineral feeds. Their use in such feeds is prohibited in Kentucky.

A list of materials generally included in mineral mixtures, including their chemical or technical names and properties, is given in the table below.

TABLE I.—MINERALS AND OTHER MATERIALS USUALLY INCLUDED IN MINERAL MIXTURES

Common name	Chemical composition or technical name	Properties
Aniseed	Seed of the anise	Aromatic, carminative
Areca nut	Same	Anthelmintic
Ashes; hardwood ashes	Same. Calcium carbonate and oxide, and potassium carbonate	Antacid, calcium nutrient
Bone ash	Same. Tricalcium phosphate	Calcium and phosphorus nutrient
Bone meal steamed	Same. Tricalcium phosphate and nitrogenous organic matter	Calcium and phosphorus nutrient
Bone black; animal charcoal	Same. Tricalcium phosphate and carbon	Absorbent
Blood root	Sanguinaria	Irritating, emetic
Blue vitriol; bluestone	Copper sulfate	Irritant, emetic, poison
Calcite	Calcium carbonate	Antacid, calcium nutrient
Capsicum; red pepper	Dried fruit of capsicum	Aromatic, stomachic
Calcium carbonate	Same	Antacid, calcium nutrient
Cane molasses	Cane syrup	Sweetening agent, nutrient
Caraway seed	Same	Aromatic
Cascara	Same	Cathartic
Charcoal; wood or animal	Same	Absorbent
Chile saltpeter	Sodium nitrate	Diuretic, poison
Cobalt sulfate	Same	Cobalt nutrient
Copperas; iron sulfate	Ferrous sulfate	Tonic, astringent
Copper sulfate	Cupric sulfate	Irritant, astringent, emetic, poison
Dextrose	Refined corn sugar	Sweetening agent, nutrient
Epsom salt	Magnesium sulfate (crystallized)	Cathartic, laxative
Fennel	Fennel seed	Aromatic
Fenugreek seed	Same	Aromatic
Gentian	Yellow gentian root	Bitter tonic
Ginger	Same	Stimulant, aromatic
Glauber's salt	Sodium sulfate (crystallized)	Cathartic, laxative
Glucose	Corn syrup	Sweetening agent, nutrient
Gypsum	Hydrous calcium sulfate	Inert
Iron oxide	Ferric oxide	Weak tonic
Iodized salt	Salt and potassium iodide	Iodine, chlorine and sodium nutrients
Kelp	Seaweed	Contains iodine, calcium
Licorice	Licorice root	Adjuvant, corrective
Limestone	Calcium carbonate	Antacid, calcium nutrient
Linseed oil meal	Flaxseed meal	Nutrient, laxative
Locust bean; St. John's bread	Carob bean	Nutrient
Manganese carbonate	Same	Manganese nutrient
Manganese sulfate	Same	Manganese nutrient
Magnesium oxide	Same	Antacid, laxative, nutrient
Magnesium carbonate	Same	Antacid, laxative, nutrient
Mandrake	Same	Purgative
Milk sugar	Lactose	Nutrient
Mineral oil	Heavy paraffin oil	Laxative, emollient
Mustard bran	Same	Condiment, stimulant, emetic
Nickel chloride	Same	Nickel nutrient
Nux vomica	Same	Tonic, poison
Oyster shell	Same. Calcium carbonate	Antacid, calcium nutrient
Paraffin wax	Same	Inert
Pennyroyal	Hedeoma pulegioides	Gentle aromatic
Petrolatum	Petroleum jelly	Emollient
Phenothiazine	Same	Anthelmintic, poison
Phosphatic limestone	Calcium carbonate, tricalcium phosphate and calcium fluoride	Antacid, calcium and phosphorus nutrients, poison
Pokeroot	Same	Emetic, purgative, narcotic
Potassium iodide	Same	Alterative, iodine nutrient
Quassia	Quassia chips	Bitter tonic

Common name	Chemical composition or technical name	Properties
Rock phosphate	Tricalcium phosphate, calcium carbonate and calcium fluoride	Calcium and phosphorus nutrients, poison
Rock phosphate (colloidal)	Tricalcium phosphate, calcium carbonate, and calcium fluoride	Calcium and phosphorus nutrients, poison
Salt	Sodium chloride	Sodium and chlorine nutrients, condiment, preservative
Sulfur	Same	Alterative, laxative
Sodium bicarbonate	Same	Antacid
Superphosphate	Same	Calcium and phosphorus nutrients
Saltpeter	Potassium nitrate	Diuretic, diaphoretic, poison
Sodium thiosulfate	Same. Hypo	Antipruritic
Strychnine	Same	Poison, tonic
Tankage	Same	Nutrient
Tobacco	Same	Insecticide, sedative, anthelmintic, poison
Worm seed	Same	Anthelmintic
Wormwood	Absinthium	Tonic, anthelmintic

TABLE 2.—ESTIMATED TONNAGE OF COMMERCIAL FEEDS SOLD IN KENTUCKY IN 1944

	Tons
Straight byproducts:	
Alfalfa meal	150
Barley, ground	375
Bone meal	50
Brewers dried grains	800
Corn byproduct feed	1,450
Cottonseed meal	11,380
Cracked corn	7,660
Crushed ear corn	275
Distillers dried grains	4,160
Hominy feed	12,880
Linseed oil meal	200
Meat scraps	2,275
Meat and bone scraps	425
Miscellaneous wheat feeds	8,550
Mixed feed (wheat feed and small amount of corn bran).....	24,525
Oats, ground	175
Peanut oil meal	515
Soybean oil meal	31,240
Tankage	2,175
Wheat bran	11,040
Wheat brown middlings or shorts	18,425
Wheat gray middlings or shorts.....	26,040
Wheat, ground	35,135
Wheat mixed feed	19,145
Wheat red dog flour	1,575
Special purpose feeds:	
Calf meal	1,705
Dairy feed:	
16% Dairy	81,250
20% Dairy	24,300

24% Dairy	40,725	
Supplement	5,050	151,325
Dog feed, dry		2,105
Goat feed		237
Hog feed:		
Fattening and growing	27,280	
Supplement	12,725	40,005
Horse and mule feed		17,650
Pigeon feed		300
Poultry grains:		
Chick	6,625	
Scratch	56,915	63,540
Poultry mash:		
All-mash growing ration	3,700	
All-mash laying ration	2,205	
All-mash poultry	7,830	
All-mash starting	1,600	
All-mash starting and growing	4,755	
Fattening mash	3,100	
Growing and broiler	16,635	
Laying mash	64,750	
Starting mash	7,885	
Starting and growing mash	10,770	
Supplement mash	2,700	
Turkey growing mash	3,456	
Turkey laying mash	125	
Turkey starting mash	880	
Turkey supplement mash	125	130,516
Rabbit feed		2,470
Sheep feed		1,775
Stock feed		26,725
Miscellaneous feeds		
Mineral feed		2,750
Miscellaneous		1,316

SUMMARY OF RESULTS OF INSPECTION AND ANALYSIS, 1944

The results of analyses of inspection samples of feeds for 1944 were more regular than in 1943 as the basic ingredients were more plentiful and more nearly uniform. Since the analyses in detail have been reported direct to persons interested, only a summary of the results of inspection and analysis is reported in this bulletin.

Acme-Evans Co., Indianapolis, Ind. Inspection samples analyzed, 11.

Acme Hominy Feed, 1; equaled guaranty.

Producer Scratch Feed, 1; equaled guaranty.

Producer 17% Protein Starting and Growing Mash, 2; equaled guaranty.

- Acme 18% Protein Egg Mash, 1; equaled guaranty.
Acme Horse Feed, 2; equaled guaranty.
Acme 16% Protein Dairy Feed, 2; equaled guaranty.
Producer 24% Protein Dairy Feed, 1; no corn gluten feed, cottonseed meal or linseed oil meal found.
Acme 32% Protein Dairy Supplement, 1; no cottonseed meal found.
- Albers Milling Co., Seattle, Wash. Inspection samples of Manna Brand 25% Protein Calf Feed analyzed, 2; equaled guaranty.
- Alfocorn Milling Co., E. St. Louis, Ill. Inspection samples analyzed, 3.
Wishbone 18% Protein Laying Mash, 1; equaled guaranty.
Full Pail 16% Protein Dairy Feed, 1; equaled guaranty.
Full Pail 24% Protein Dairy Feed, 1; equaled guaranty.
- E. T. Allen Co., Atlanta, Ga. Inspection samples analyzed, 5.
Empire 41% Protein Cottonseed Meal, 1; deficient in fat.
Premier 43% Protein Cottonseed Meal, 2; 1 excess fiber.
Empire 41% Protein Peanut Meal, 1, excess fiber.
Empire 41% Protein Soybean Oil Meal, 1; equaled guaranty.
- Allied Mills, Chicago, Ill. Inspection samples analyzed, 29.
Wayne 41% Protein Soybean Oil Meal, 1; equaled guaranty.
Wayne 18% Protein Chick Starter, 1; equaled guaranty.
Wayne 17% Protein Growing Mash, 2; 1 no ground barley found.
Wayne 19% Protein Broiler Ration, 2; 1 deficient in fat, ground barley present tho not guaranteed.
Economy Brand 18% Protein Laying Mash, 2; equaled guaranty.
Wayne 20% Protein Egg Mash, 1; equaled guaranty.
Wayne 20% Protein Egg Mash with Sardine Oil, 1; no ground barley found; kaffir corn and fish meal present tho not guaranteed.
Wayne 20% Protein Turkey Growing Mash, 1; deficient in protein; kaffir corn present tho not guaranteed.
Wayne 26% Protein Poultry Mash Supplement, 1; equaled guaranty.
I. Q. 22% Protein Dog Feed, 1; equaled guaranty.
Wayne Horse Feed, 1; equaled guaranty.
Sugarine Horse and Mule Feed, 1; equaled guaranty.
Wayne 14% Protein Pork Maker, 1; ground barley present tho not guaranteed.
Wayne 20% Protein Pig and Sow Meal, 1; equaled guaranty.
Wayne 35% Protein Hog Supplement, 1; excess fiber.
Wayne Victory 35% Protein Hog Supplement, 1; equaled guaranty.
Wayne 13% Protein Rabbit Feed, 1; equaled guaranty.
Wayne 20% Protein Flushing Mash (Flushing Purposes Only), 1; deficient in protein; linseed oil meal and ground oats present tho not guaranteed.
Wayne 12% Protein Fitting Ration, 1; equaled guaranty.
Wayne Complete 16% Protein Calf Feed, 1; equaled guaranty.
Wayne 16% Protein Dairy Feed, 3; 2 distillers dried grains present tho not guaranteed; 1 no corn meal found, ground wheat present tho not guaranteed; 1 kaffir corn present tho not guaranteed.
Wayne 18% Protein Dairy Feed, 1; no hominy feed, linseed oil meal or molasses found; ground wheat present tho not guaranteed.
Wayne 32% Protein Dairy Feed Supplement, 2; equaled guaranty.

- Always-A-Head Mills, E. St. Louis, Ill. Inspection sample of Do-Mor 16% Protein Dairy Feed analyzed, 1; ingredients not as guaranteed; adulterated and misbranded.
- Anderson & Spilman, Danville, Ky. Inspection samples of Snow Flake Feed analyzed, 2; equaled guaranty
- Anglo Sweet Feed Mill, Owensboro, Ky. Inspection sample of Ace Three-In-One 18% Protein Poultry Mash analyzed, 1; equaled guaranty.
- Arcady Farms Milling Co., Chicago, Ill. Inspection samples analyzed, 14.
Sunkist 18% Protein Complete Chick Starter, 1; linseed oil meal, fish meal and ground weed seeds present tho not guaranteed.
Sunkist 20% Protein Egg Mash, 1; equaled guaranty.
Arcady 20% Protein Egg and Breeder Mash, 1; equaled guaranty.
Wonderfat Brand 15% Protein Station Feed, 1; deficient in protein.
Arcady 32% Protein Poultry Mash Supplement with A & D Feeding Oil, 1; meat scrap present tho not guaranteed.
Arcady 15% Protein Hog Feed, 2; equaled guaranty.
Arcady 20% Protein Pig and Sow Feed, 1; equaled guaranty.
Arcady 35% Protein Hog Supplement, 1; equaled guaranty.
Atlantic Besbet 16% Protein Dairy Feed, 1; cottonseed meal and linseed oil meal present tho not guaranteed.
Arcady 20% Protein Dairy Feed, 1; equaled guaranty.
Arcady 24% Protein Dairy Feed, 3; 1 no brewers dried grains found.
- Archer-Daniels-Midland Co., Minneapolis, Minn. Inspection samples analyzed, 3.
34% Protein Linseed Meal, 1; equaled guaranty.
Archer 41% Protein Soybean Oil Meal, 2; equaled guaranty.
- Ashcraft-Wilkinson Co., Atlanta, Ga. Inspection samples of Helmet Brand 41% Protein Cottonseed Meal analyzed, 6; 2 deficient in protein; 3 excess fiber.
- The Great Atlantic & Pacific Tea Co., New York, N. Y. Inspection samples analyzed, 2.
Daily Egg 20% Protein Laying Mash, 1; no corn gluten feed or corn gluten meal found
Daily Milk 16% Protein Dairy Feed, 1; equaled guaranty.
- Aubrey & Co., Louisville, Ky. Inspection samples analyzed, 45.
Red A Wheat Red Dog (Soft Wheat), 1; equaled guaranty.
Red A Chick Feed, 3; equaled guaranty.
Monarch Poultry Scratch Feed, 3; 2 deficient in fat.
Red A 17% Protein Starting, Growing and Developing Mash, 1; equaled guaranty.
Red A 14% Protein Poultry Fattening Mash, 1; equaled guaranty.
excess fiber.
Rainbow 18% Protein Laying Mash, 1; equaled guaranty.
Red A 20% Protein Laying Mash, 5; equaled guaranty.
Red A 14% Protein Poultry Fattening Mash, 1; equaled guaranty.
Red A 25% Protein Turkey Starting Mash, 1; equaled guaranty.
Supreme Brand 32% Protein Mash Supplement, 1; deficient in protein and excess fiber.
Monarch Horse Feed, 1; equaled guaranty.
Red A Horse Feed, 3; excess fiber.

- Red A 18% Protein Hog and Pig Feed, 2; 1 fish meal present tho not guaranteed; 1 no corn germ meal, rye middlings or ground barley found.
- Red A 35% Protein Hog Supplement, 2; 1 deficient in fat.
- Red A 40% Protein Hog Supplement, 1; deficient in fat.
- Red A 16% Protein Sheep Feed, 2; excess fiber.
- Red A Stock Feed, 1; equaled guaranty.
- Aubrey's Ground Grain Mixture, 2; equaled guaranty.
- Monarch 16½% Protein Dairy Feed, 2; 1 no brewers dried grains found.
- Red A 16½% Protein Dairy Feed, 1; no cottonseed meal found.
- Red A 20% Protein Dairy Feed, 6; 2 no cottonseed meal found; 2 corn gluten product present tho not guaranteed.
- Ful-O-Cream Brand 24% Protein Dairy Feed, 1; equaled guaranty.
- Supreme 24% Protein Dairy Feed, 1; equaled guaranty.
- Red A 32% Protein Dairy Supplement, 1; no cottonseed meal found.
- Aviston Milling Co., St. Louis, Mo. Inspection sample of Hobby Wheat Mixed Feed and Screenings analyzed, 1; deficient in fat.
- Ballard & Ballard Co., Louisville, Ky. Inspection samples analyzed, 30.
- Ballard's Wheat Bran, 1; equaled guaranty.
- Ballard's Wheat Mixed Feed and Screenings, 1; deficient in protein.
- Chick Insurance Brand 18% Protein Starting Mash, 3; kaffir corn present tho not guaranteed.
- Insurance Brand 18% Protein Growing Mash, 2; equaled guaranty.
- Insurance Brand 18% Protein Broiler Ration, 2; 1 kaffir corn present tho not guaranteed; 1 fish meal present tho not guaranteed.
- Ballard's 18% Protein Laying Mash and Pullet Grower, 2; 1 kaffir corn present tho not guaranteed.
- Insurance Brand 20% Protein Egg Mash, 2; 1 kaffir corn present tho not guaranteed.
- Insurance Brand 20% Protein Egg and Breeder Mash, 1; equaled guaranty.
- Insurance Brand 26% Protein Turkey Starter, 1; equaled guaranty.
- Insurance Brand 20% Protein Turkey Growing Mash, 1; kaffir corn present tho not guaranteed.
- Ballard's Nutro-Tone Brand 23% Protein Supplement (For Poultry and Turkeys), 1; equaled guaranty.
- Insurance Brand 16% Protein Pig and Hog Ration, 2; 1 kaffir corn present tho not guaranteed.
- Insurance Brand 35% Protein Pig and Hog Feed Supplement, 1; equaled guaranty.
- Insurance Brand 13½% Protein Sheep Feed, 1; equaled guaranty.
- Ballard's 16% Protein Sweet Dairy Feed, 4; 1 kaffir corn present tho not guaranteed; 1 ground wheat present tho not guaranteed.
- Milk Insurance Brand 18% Protein Dairy Feed, 3; 1 deficient in protein, kaffir corn present tho not guaranteed; 1 no linseed oil meal found; 1 no ground barley found.
- Milk Insurance Brand 24% Protein Dairy Feed, 2; equaled guaranty.
- Baltic Mills Co., Vincennes, Ind. Inspection sample of Knox County Hominy Feed analyzed, 1; equaled guaranty.
- Bardstown Mills, Bardstown, Ky. Inspection sample of Royal Mixed Feed analyzed, 1; deficient in fat.

- Baughman Milling Co., Stanford, Ky. Inspection sample of Banner Stock Feed analyzed, 1; excess fiber
- Bay State Milling Co., Winona, Minn. Inspection sample of Wingold Hard Wheat Feed and Screenings analyzed, 1; equaled guaranty.
- Beaver Dam Milling Co., Beaver Dam, Ky. Inspection samples analyzed, 6.
Snow Drift 19% Protein Laying Mash, 2; 1 no dried buttermilk found.
Eureka 21% Protein Laying Mash, 1; equaled guaranty.
Eureka 40% Protein Hog Supplement, 1; excess fiber; no cottonseed meal or linseed oil meal found; ground wheat present tho not guaranteed.
Beaver Brand 16% Protein Dairy Feed, 2; 1 no corn gluten feed or cottonseed meal found.
- Benson Valley Milling Co., Frankfort, Ky. Inspection sample of Benson Valley 20% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Bi-County Farm Bureau Co-operative Association, Devon, Ky. Inspection samples analyzed, 2.
Co-op Special Brand 20% Protein Laying Mash, 1; equaled guaranty.
Co-op Milkmaid Brand 20% Protein Dairy Feed, 1; excess fiber; no ground oats found.
- The Big Four Mills, Ltd., Covington, Ky. Inspection samples analyzed, 12.
Big Four 18% Protein Starting Mash, 1; much deficient in protein; no dried buttermilk found; misbranded.
O. K. Brand 18% Protein Starter and Grower Mash, 1; ground barley present tho not guaranteed.
Big Four 20% Protein Laying Mash, 1; no corn gluten feed found.
Big Four Horse Feed, 1; equaled guaranty.
Big Four 19% Protein Pig and Hog Feed, 1; deficient in fat; no alfalfa meal found.
Big Four 18% Protein Dairy Feed, 2; deficient in protein; no soybean oil meal found; adulterated with unground weed seeds; misbranded; 1 no corn meal found; 1 no distillers dried grains found.
Big Four 24% Protein Dairy Feed, 5; 1 deficient in protein; 2 deficient in fat; 2 no cottonseed meal found; 1 no brewers dried grains found, kaffir corn and weed seeds present tho not guaranteed.
- Binns Milling Co., Herndon, Ky. Inspection samples analyzed, 4.
Eclipse Mixed Feed, 1; deficient in protein and fat.
Eclipse Scratch Feed, 2; deficient in fat; 1 no kaffir corn or sunflower seed found.
Binn's Quality Brand 20% Protein Laying Mash, 1; no corn gluten meal found.
- Blanton Milling Co., Indianapolis, Ind. Inspection samples analyzed, 5.
Blanton Wheat Bran and Screenings, 1; equaled guaranty.
Blanton Wheat Brown Middlings and Screenings, 1; excess fiber.
Perfect Brand 18% Protein Pig Meal, 1; kaffir corn present tho not guaranteed
Perfect Brand 40% Protein Hog Supplement, 1; no linseed oil meal or oatmeal found.
Perfect Brand 32% Protein Dairy Supplement, 1; equaled guaranty.

- Blish Milling Co., Seymour, Ind. Inspection sample of Bull's Eye Wheat Brown Middlings and Screenings analyzed, 1; wheat bran present.
- W. H. Brock & Co., Maysville, Ky. Inspection samples of 30% Protein Distillers Wheat Dried Gains analyzed, 2; 1 much deficient in protein, misbranded; 1 excess fiber.
- Browder Milling Co., Fulton, Ky. Inspection samples analyzed, 5.
Biddie's Choice 20% Protein Laying Mash, 2; equaled guaranty.
Economy Brand 17½% Protein Hog Feed, 1; equaled guaranty.
16% Protein Sweet Dairy Feed, 2; equaled guaranty.
- The Buckeye Cotton Oil Co., Cincinnati, O. Inspection samples analyzed, 7.
Buckeye 41% Protein Cottonseed Meal, 3; 1 deficient in protein and excess fiber.
Buckeye 41% Protein Soybean Oil Meal, 1; equaled guaranty.
Buckeye 44% Protein Solvent Process Soybean Oil Meal, 3; equaled guaranty.
- Buffalo Roller Mills, Buffalo, Ky. Inspection sample of Sea Foam Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein.
- The Buhner Feed Co., Seymour, Ind. Inspection samples analyzed, 8.
Buhner's Happy Farmer 18% Protein Chick Starter, 1; no corn gluten feed or corn gluten meal found.
Buhner's Happy Farmer 16½% Protein All-Mash Starter and Grower, 1; equaled guaranty.
Buhner's 14% Protein Fattening Mash Ration, 1; equaled guaranty.
Buhner's Happy Farmer 20% Protein Laying Mash, 2; no cottonseed meal found; 1 no corn gluten feed found.
Buhner's 13% Protein Hog Fattener, 1; no corn gluten feed found.
Buhner's Special Brand 16% Protein Dairy Feed, 2; 1 deficient in protein, no cottonseed meal found; 1 linseed oil meal present tho not guaranteed.
- Bundy Bros. Mill Co., Medora, Ind. Inspection samples analyzed, 3.
Perfection Brand 17% Protein Starting and Growing Mash, 1; soybean oil meal and distillers dried grains present tho not guaranteed.
Monarch 18% Protein Laying Mash, 2; equaled guaranty.
- Bunton Seed Co., Inc., Louisville, Ky. Inspection samples analyzed, 2.
Bunton's Quality Brand 16% Protein All-Mash Broiler Ration, 1; no dried buttermilk or alfalfa meal found.
Bunton's Quality Brand 24% Protein Dairy Feed, 1; no corn gluten feed, distillers dried grains or kelp meal found.
- Burnside Milling Co., Burnside, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Cadick Milling Co., Grandview, Ind. Inspection samples analyzed, 3.
Wheat Mixed Feed, 2; equaled guaranty.
Cadick's Gold Dust 18% Protein Laying Mash, 1; equaled guaranty.
- Campbellsville Milling Co., Campbellsville, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein and fat.
- Capital Flour Mills, Minneapolis, Minn. Inspection sample of Special Wheat Middlings and Screenings analyzed, 1; equaled guaranty.

- Central Kentucky Milk Producers Association, Lexington, Ky. Inspection samples analyzed, 7.
Co-op 19% Protein Starting and Growing Mash, 1; no dried whey found; distillers dried grains present tho not guaranteed.
Co-op 20% Protein Laying Mash, 1; equaled guaranty.
Special 18% Protein Dairy Feed, 1; equaled guaranty.
Co-op 24% Protein Dairy Feed, 1; no linseed oil meal found.
Special 24% Protein Dairy Feed, 3; 1 deficient in protein.
- Central Soya Co., Inc., Ft. Wayne, Ind. Inspection samples of Central 41% Protein Soybean Oil Meal analyzed, 5; equaled guaranty.
- Chemical Products Corporation, Cincinnati, O. Inspection sample of Abattoir Brand 55% Protein Meat Scraps analyzed, 1; equaled guaranty.
- Cherokee Mills, Nashville, Tenn. Inspection sample of Milky Way 14% Protein Hog Feed analyzed, 1; deficient in protein.
- The Cincinnati Grain & Hay Co., Cincinnati, O. Inspection samples of No Better Brand 24% Protein Sweet Dairy Ration analyzed, 2; 1 much deficient in protein, misbranded; 1 deficient in fat, no hominy feed found, kaffir corn present tho not guaranteed.
- City Roller Mills, Vevay, Ind. Inspection samples analyzed, 2.
Blue Ribbon 18% Protein Laying Mash, 1; no corn gluten meal found.
16½% Protein All-Mash Poultry Ration, 1; equaled guaranty.
- Clarkson Milling Co., Clarkson, Ky. Inspection sample of Special Mixed Feed analyzed, 1; no corn bran found.
- 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 Big Blue Stock Feed analyzed, 1; deficient in fat.
- Colonial Milling Co., Nashville, Tenn. Inspection sample of Colonial's Wheat Gray Shorts and Screenings analyzed, 1; excess fiber.
- Community Milling Co., Irvington, Ky. Inspection sample of Soft Wheat Mixed Feed analyzed, 1; deficient in protein and fat.
- The O. A. Cooper Co., Humboldt, Nebr. Inspection sample of Cooper's 20% Protein Pig Saver Meal analyzed, 1; equaled guaranty.
- Geo. Couch & Sons, New Harmony, Ind. Inspection samples analyzed, 6.
Harmony Brand Hominy Feed, 1; equaled guaranty.
Harmony Brand Scratch Feed, 1; no oats found.
Harmony Brand 18% Protein Pork Maker, 1; equaled guaranty.
Harmony Brand 16% Protein Dairy Feed, 3; 1 no linseed oil meal found, soybean byproduct feed and ground barley present tho not guaranteed
- Crescent Flour Mills, Cynthiana, Ky. Inspection sample of Crescent Mixed Feed analyzed, 1; equaled guaranty.
- Crescent Roller Mills Co., Taylorsville, Ky. Inspection sample of Crescent Stock Feed analyzed, 1; equaled guaranty.
- Dearborn Mills, Aurora, Ind. Inspection samples analyzed, 8.
Dearborn 17% Protein Grower Mash, 1; ground oats present tho not guaranteed.
Dearborn 16% Protein All-Mash Starter and Grower, 1; equaled guaranty.

- Success Brand 18% Protein Layer Mash, 2; equaled guaranty.
Dearborn Horse and Mule Feed, 1; equaled guaranty.
Dearborn 16% Protein Dairy Feed, 2; 1 no ground oats found.
Dearborn 24% Protein Dairy Feed, 1; brewers dried grains present tho not guaranteed.
- Decatur Milling Co., Decatur, Ill. Inspection samples of Homco Hominy Feed analyzed, 2; equaled guaranty.
- The Dewey Bros. Co., Blanchester, O. Inspection samples analyzed, 8.
Dewco 17½% Protein Starter and Grower, 1; equaled guaranty.
Dewco 18% Protein Egg Mash, 1; corn gluten meal present tho not guaranteed.
Dewco 15% Protein Pig and Hog Feed, 1; equaled guaranty.
Dewey's 16% Protein Dairy Feed, 2; equaled guaranty.
Dewey's 20% Protein Dairy Feed, 2; 1 no cottonseed meal found.
Dewey's 24% Protein Dairy Ration, 1; no linseed oil meal found.
- W. C. Dicken, Mentor, Ky. Inspection samples analyzed, 7.
Sunny Grain Brand 17% Protein Chick Starter, 1; equaled guaranty.
Sunny Grain Brand 18% Protein Chick Grower, 1; equaled guaranty.
Sunny Grain Brand 18% Protein Laying Mash, 2; 1 deficient in fat.
Sunny Grain Brand 17% Protein Hog Feed, 1; deficient in fat.
Sunny Grain Brand 18% Protein Dairy Feed, 1; equaled guaranty.
Sunny Grain Brand 20% Protein Dairy Feed, 1; equaled guaranty.
- Dietrich & Gambrill, Inc., Frederick, Md. Inspection sample of D and G 20% Protein Dog Feed analyzed, 1; equaled guaranty.
- Dixie Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 14.
Dixie 18% Protein Chick Mash, 1; equaled guaranty.
Dixie 17% Protein Starter and Grower Mash, 1; no corn germ oil meal found.
Dixie 17% Protein All-Purpose Poultry Mash, 1; equaled guaranty.
Dixie 20% Protein Laying Mash, 2; 1 deficient in protein; 1 no linseed oil meal found.
Dixie Horse and Mule Feed, 1; equaled guaranty.
Dixie 15% Protein Hog Feed, 1; no linseed oil meal found.
Dixie 13% Protein Rabbit Pellets, 1; excess fiber.
Dixie 16% Protein Dairy Feed, 3; 1 no ground barley found; 2 ground wheat present tho not guaranteed; 1 no corn germ meal found, brewers dried grains present tho not guaranteed.
Dixie 24% Protein Dairy Feed, 2; 1 no ground corn, corn germ meal or cottonseed meal found.
Dixie 32% Protein Dairy Supplement, 1; equaled guaranty.
- The Drackett Products Co., Cincinnati, O. Inspection samples of Drackett 44% Protein Solvent Soybean Oil Meal analyzed, 2; equaled guaranty.
- Duncan & Theiss, La Grange, Ky. Inspection sample of Dairy Maid 16% Protein Dairy Feed analyzed, 1; no cottonseed meal found; ground wheat present tho not guaranteed.
- Dunlop Milling Co., Clarksville, Tenn. Inspection samples analyzed, 2.
Challenger 17% Protein Pullet Developer and Growing Mash, 1; no corn gluten feed or corn gluten meal found.
Challenger 32% Protein Dairy Supplement, 1; no alfalfa meal or molasses found; wheat bran present tho not guaranteed.

- Dyersburg Oil Mill Co., Dyersburg, Tenn. Inspection sample of 43% Protein Cottonseed Meal analyzed, 1; deficient in protein.
- The Early & Daniel Co., Cincinnati, O. Inspection samples analyzed, 32.
- Tuxedo Scratch Feed, 1; deficient in fat; no cracked corn or milo maize found.
- Tuxedo 17% Protein Starter, Grower and Developer Mash, 3; 1 no ground oats found.
- Tuxedo 18% Protein Broiler Mash, 1; equaled guaranty.
- Tuxedo 17½% Protein Starting and Growing All-Mash, 2; 1 corn gluten feed present tho not guaranteed.
- Tuxedo 18% Protein Special Egg Mash, 5; 2 deficient in fat; 1 linseed oil meal present tho not guaranteed.
- Tuxedo 20% Protein Turkey Growing and Developing Mash, 1; equaled guaranty.
- Tuxedo Horse and Mule Feed, 1; equaled guaranty.
- Tuxedo Chop, 2; 1 distillers dried grains present tho not guaranteed.
- Tuxedo 14% Protein Pig Meal, 1; equaled guaranty.
- Tuxedo 19% Protein Hog Ration, 1; ground corn present tho not guaranteed.
- Tuxedo 15½% Protein Porkmaker, 1; deficient in fat; no corn meal or hominy feed found.
- Tuxedo 30% Protein Hog Supplement, 3; no cottonseed meal found; 1 deficient in fat, kaffir corn present tho not guaranteed.
- Tuxedo Big 35% Protein Hog Supplement, 1; deficient in protein; no cottonseed meal found.
- Tuxedo Special 16% Protein Dairy Feed, 3; 1 no corn gluten feed found; 1 no corn meal found, ground wheat present tho not guaranteed.
- Tuxedo 18% Protein Dairy Feed, 2; no corn gluten feed or cottonseed meal found; 1 no brewers dried grains found; 1 no distillers dried grains found.
- Tuxedo 24% Protein Dairy Feed, 2; 1 deficient in protein, no corn gluten feed, cottonseed meal or distillers dried grains found, ground barley present tho not guaranteed.
- Tuxedo 30% Protein Dairy Supplement, 2; 1 much deficient in protein, ingredients not as guaranteed, misbranded; 1 no corn gluten feed or cottonseed meal found, ground wheat and ground barley present tho not guaranteed.
- The F. L. Emmert Co., Cincinnati, O. Inspection samples analyzed, 2.
- Buffalo Brand 24% Protein Brewers Dried Grains, 1; equaled guaranty.
- Molasso-Malt Brand 22% Protein Brewers Dried Grains and Molasses, 1; equaled guaranty.
- John W. Eshelman & Sons, Lancaster, Pa. Inspection samples analyzed, 10.
- Eshelman Red Rose 16% Protein All-Mash Starter and Grower with A and D Oil, 1; equaled guaranty.
- Eshelman Red Rose 18½% Protein Laying Mash, 1; equaled Guaranty.
- Eshelman Red Rose 85% Grain Horse Feed, 1; wheat bran present tho not guaranteed.
- Eshelman Red Rose 18% Protein Pig and Hog Meal, 1; equaled guaranty.

- Eshelman Red Rose 15% Protein Sheep Feed, 1; equaled guaranty.
Eshelman Pennsy 16% Protein Dairy Feed, 2; 1 excess fiber.
Eshelman Red Rose 24% Protein Dairy Feed, 2; equaled guaranty.
Eshelman Challenger 24% Protein Dairy Feed, 1; excess fiber.
- Evans Milling Co., Indianapolis, Ind. Inspection sample of Emco Hominy Feed analyzed, 1; equaled guaranty.
- Excelsior Milling Co., Minneapolis, Minn. Inspection sample of Camel Fancy Brand Wheat Mixed Feed and Screenings analyzed 1; deficient in fat.
- Exchange Milling Co., Sturgis, Ky. Inspection sample of Smith's Special Chicken Feed analyzed, 1; barley present tho not guaranteed.
- Farmers Mill Co., Columbia, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Farmers Milling Co., Somerset, Ky. Inspection samples of Farmers XX Stock Feed analyzed, 1; equaled guaranty.
- Farmers & Merchants Milling Co., Brooksville, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- J. H. Fedders' Sons, Covington, Ky. Inspection sample of Ground Oats analyzed, 1; equaled guaranty.
- Ferncliff Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 5.
P. D. Q. 18% Protein Egg Mash, 2; equaled guaranty.
Cracker Jack Horse and Mule Feed, 1; equaled guaranty.
Cracker Jack Grain Feed, 1; equaled guaranty.
Cracker Jack 24% Protein Sweet Dairy Ration, 1; deficient in fat; no distillers dried grains found.
- Henry Fischer Packing Co., Inc., Louisville, Ky. Inspection sample of Mellwood Brand 60% Protein Digester Tankage analyzed, 1; equaled guaranty.
- Henry Fruechtenicht, Louisville, Ky. Inspection samples analyzed, 9.
Ground Wheat, 1; equaled guaranty.
Producer Brand Scratch Grains, 1; deficient in fat, ground barley present tho not guaranteed.
Producer Brand 17% Protein Starting and Growing Mash, 1; no ground oats found.
Producer Brand 20% Protein Laying Mash, 1; equaled guaranty.
Producer Brand 16% Protein Dairy Feed, 2; 1 excess fiber, no corn gluten feed or cottonseed meal found.
Blue Grass 24% Protein Dairy Feed, 3; 1 deficient in protein; 2 no linseed oil meal found; 1 no corn gluten feed found; 1 no cottonseed meal or distillers dried grains found.
- Fuhrer-Ford Milling Co., Mt. Vernon, Ind. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Gaines Food Co., Chicago Hts., Ill. Inspection sample of Gaines 23% Protein Dog Meal analyzed, 1; excess fiber.
- Garrard Mills, Lancaster, Ky. Inspection sample of Glen Lily Mixed Feed analyzed, 1; equaled guaranty.
- General Mills, Inc., Minneapolis, Minn. Inspection samples analyzed, 13.
Ben Hur Wheat Gray Shorts and screenings, 1; excess fiber.

- Sonny South Wheat Gray Shorts and Screenings, 1; excess fiber.
Washburn's Gold Medal Wheat Gray Shorts and Screenings, 1; equaled guaranty.
- Kentucky Brand Wheat Feed and Screenings, 1; equaled guaranty.
Pittsburgh Brand Wheat Feed and Screenings, 1; equaled guaranty.
Larro 19% Protein Chick Builder, 1; equaled guaranty.
Larro 18% Protein Broiler Feed, 1; equaled guaranty.
Larro 18% Protein Egg Mash, 1; equaled guaranty.
Larro 20% Protein Turkey Breeder Mash, 1; equaled guaranty.
Larro 19% Protein Turkey Finisher, 1; equaled guaranty.
Larro 16% Protein Sow and Pig Builder, 1; equaled guaranty.
Larro 30% Protein Hog Feed Supplement, 1; equaled guaranty.
Larro 18% Protein Dairy Feed, 1; equaled guaranty.
- Germantown, Milling Co., Germantown, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; deficient in fat.
- The Glidden Co., Indianapolis, Ind. Inspection samples analyzed, 3.
Capitol 18% Protein Egg Mash, 1; much excess fiber; meat scraps and alfalfa meal present tho not guaranteed; adulterated with soybean hulls; misbranded.
Glidden 18% Protein Pig Meal, 1; excess fiber; no alfalfa meal found; adulterated with buckwheat hulls and soybean hulls; misbranded.
Solvent Soybean Meal Byproduct, Soybean Hulls, Molasses and Minerals, 1; equaled guaranty.
- Edw. F. Goeke Sons, Evansville, Ind. Inspection samples analyzed, 8.
Big Gee 20% Protein Egg Mash, 1; soybean oil meal present tho not guaranteed.
AP 16% Protein All-Purpose Poultry Mash, 1; excess fiber.
Goeke's Ultra-Lifed Brand 16% Protein All-Mash Poultry Ration, 1; equaled guaranty.
Goeke's 35% Protein Hog Supplement, 2; 1 much deficient in protein, misbranded; 1 no corn oil meal found.
Hi-Power Brand 16% Protein Dairy Feed, 1; deficient in protein and fat.
Milko 16% Protein Dairy Feed, 2; excess fiber; misbranded; 1 deficient in fat, ground rye, cottonseed meal and roasted soybeans present tho not guaranteed, no ground corn found; 1 kaffir corn, coffee substitute and alfalfa meal present tho not guaranteed, excess filler present.
- The Goldcamp Mill Co., Ironton, O. Inspection samples analyzed, 9.
Ground Wheat and Oats, 1; deficient in fat.
Gold-Co Egg-O Brand 18% Protein Laying Mash, 1; peanut oil meal and gluten product present tho not guaranteed.
17% Protein Pig and Hog Grower, 2; deficient in fat, no cottonseed meal or alfalfa leaf meal found; 1 deficient in protein, no molasses found, ground oats and ground barley present tho not guaranteed, misbranded.
Gold-Co 16% Protein Dairy Feed, 2; no malt sprouts found; 1 much deficient in protein, no soybean oil meal or brewers dried grains found, misbranded; 1 rice product present tho not guaranteed.
Vitality Brand 18% Protein Dairy Feed, 1; much deficient in protein;

- no ground oats found; filler present tho not guaranteed; misbranded.
- Cream Flow Brand 24% Protein Dairy Feed, 2; 1 deficient in protein, no soybean oil meal found.
- Green River Milling Co., S. Carrollton, Ky. Inspection samples analyzed, 2.
- Green River 15½% Protein All-Mash Grower, 1; equaled guaranty.
- Green River 16% Protein Dairy Feed, 1; no corn gluten feed found; ground oats present tho not guaranteed.
- Gwinn Bros. & Co., Huntington, W. Va. Inspection samples analyzed, 10.
- Gwinn's 17% Protein Starter and Grower Mash, 1; ground wheat present tho not guaranteed.
- Merit Brand 18% Protein Laying Mash, 2; 1 no corn gluten meal found, ground oats and screenings product present tho not guaranteed, misbranded.
- Merit Brand Horse Feed, 1; equaled guaranty.
- Gwinn's 18% Protein Pig and Hog Feed, 1; equaled guaranty.
- Merit Brand 16% Protein Dairy Feed, 4; 1 linseed oil meal and ground wheat present tho not guaranteed; 1 ingredients not as guaranteed, misbranded.
- Merit Brand 20% Protein Dairy Feed, 1; equaled guaranty.
- 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, 19.
- Red Comb 18% Protein Chick Starter, 1; equaled guaranty.
- Red Comb 17% Protein Growing Mash, 2; no corn gluten feed found.
- Red Comb 18% Protein Egg Mash, 2; 1 no corn gluten meal found.
- Morning Glory 20% Protein Egg Mash, 1; deficient in protein.
- Red Comb 13% Protein Crate Fattener, 2; deficient in fat; 1 soybean oil meal present tho not guaranteed.
- Red Comb 21% Protein Turkey Grower, 1; equaled guaranty.
- College Brand Horse Feed, 1; no ground barley found.
- Pioneer 15% Protein Hog Fattener, 1; ground oats present tho not guaranteed.
- Pioneer 20% Protein Pig and Hog Feed, 1; no corn oil meal found.
- Victoria 12% Protein Rabbit Feed, 2; equaled guaranty.
- Gold Flake 16½% Protein Dairy Feed, 3; 1 deficient in protein; 2 no linseed oil meal found; 2 no corn germ meal found; 1 no cottonseed meal found; 1 no distillers dried grains found.
- Pioneer 18% Protein Dairy Feed, 2; no cottonseed meal found; 1 no corn germ meal found.
- R. L. Harrison & Son, Bagdad, Ky. Inspection samples analyzed, 9.
- Corn Byproduct Feed, 1; equaled guaranty.
- Harrison's 18% Protein Starter and Growing Mash, 1; equaled guaranty.
- Harrison's Nat-Ur-Way Brand 20% Protein Laying Mash, 2; equaled guaranty.
- Harrison's 95% Grain Horse and Mule Feed, 1; equaled guaranty.
- Harrison's Stock Feed, 1; equaled guaranty.
- Harrison's Nat-Ur-Way Brand 16% Protein Dairy Feed, 1; no corn gluten feed found.
- Harrison's 20% Protein Dairy Feed, 1; deficient in protein and fat.

- Harrison's Nat-Ur-Way Brand 24% Protein Dairy Feed, 1; equaled guaranty.
- The P. H. Harsha Milling Co., Portsmouth, O. Inspection samples analyzed, 4.
- Harsha's 18% Protein Laying Mash, 1; deficient in protein; no ground oats or dried buttermilk found.
- 18% Protein Pig and Hog Grower, 1; deficient in protein.
- Harsha's Special Brand 16% Protein Dairy Feed, 2; 1 no distillers dried grains found, ground corn present tho not guaranteed.
- G. M. Haycraft & Son, Leitchfield, Ky. Inspection sample of Haycraft's 17% Protein Growing Hog Feed analyzed, 1; no corn gluten feed found.
- Haydon Mill & Grain Co., Springfield, Ky. Inspection samples analyzed, 3.
- Grow-Quick 17% Protein Starting Mash, 1; equaled guaranty.
- Grow-Quick 17% Protein Growing Mash, 1; equaled guaranty.
- Economy Brand 19% Protein Laying Mash, 1; corn gluten feed present tho not guaranteed.
- Dr. Heinz Co., Cincinnati, O. Inspection samples analyzed, 13.
- Heinz Nu-Way Brand 20% Protein Chick Starter, 1; linseed oil meal present tho not guaranteed.
- Heinz Nu-Way Brand 17% Protein Growing Mash, 1; deficient in fat; fish meal and peanut oil meal present tho not guaranteed.
- Heinz Nu-Way Brand 18% Protein Starting and Growing Mash, 1; no corn oil meal found; peanut oil meal present tho not guaranteed.
- Heinz Nu-Way Brand 18% Protein Laying Mash, 1; ground beans and peanut oil meal present tho not guaranteed.
- Heinz Hog Mineral, 1; excess fluorine; misbranded.
- Heinz Nu-Way Brand 16% Protein Pig Meal, 1; equaled guaranty.
- Heinz Nu-Way Brand 16% Protein Pig and Sow Ration, 1; no corn oil meal found; ground soybeans present tho not guaranteed.
- Heinz Nu-Way Brand 14% Protein Hog Maker, 1; equaled guaranty.
- Heinz Nu-Way 34% Protein Pig and Hog Supplement, 1; equaled guaranty.
- Heinz Nu-Way Brand 30% Protein Sheep and Lamb Supplement, 1; excess fiber; ground soybeans present tho not guaranteed; excess fluorine; misbranded.
- 16% Protein Dairy Feed, 1; no alfalfa meal found; peanut oil meal present tho not guaranteed.
- Nu-Way Brand 24% Protein Dairy Ration, 1; no cottonseed meal, linseed oil meal or peanut oil meal found.
- Heinz Nu-Way Brand 32% Protein Dairy Supplement, 1; equaled guaranty.
- Henderson Elevator Co., Henderson, Ky. Inspection samples analyzed, 10.
- Bullitt's Best Brand 18% Protein Chick Starter, 1; excess fiber.
- Bullitt's Ideal Brand 18% Protein Growing Mash, 1; equaled guaranty.
- Bullitt's 17% Protein All-Purpose Poultry Mash, 1; no wheat bran or wheat shorts found.
- Bullitt's 20% Protein Egg Mash, 2; 1 deficient in protein; 1 no alfalfa meal found, barley product present tho not guaranteed.

- Bullitt's Best Brand Horse and Mule Feed, 2; flax plant byproduct present tho not guaranteed, adulterated and misbranded; 1 deficient in protein.
- Bullitt's Jersey Cream Brand 16% Protein Dairy Feed, 3; no cottonseed meal found; 1 excess fiber; 2 no corn gluten feed found, excess screenings present, adulterated and misbranded.
- V. E. Herter & Co., Dayton, O. Inspection samples analyzed, 9.
- Ground Whole Wheat, 1; equaled guaranty.
- Eagle 16% Protein Starting and Growing All-Mash, 1; equaled guaranty.
- Yankee 20% Protein Laying Mash, 2; equaled guaranty.
- Curly Tail 17% Protein Pig Feed, 1; deficient in fat.
- Economy Brand 16% Protein Dairy Feed, 1; equaled guaranty.
- Eagle 24% Protein Dairy Feed, 2; much excess fiber, misbranded; 1 ingredients not as guaranteed.
- Vehco Special Brand 24% Protein Dairy Feed, 1; alfalfa meal present tho not guaranteed; excess urea present.
- Hopkinsville Milling Co., Hopkinsville, Ky. Inspection samples analyzed, 3.
- Life Cycle Brand 18% Protein Poultry Mash, 1; equaled guaranty.
- Sunflower Brand 26% Protein Dairy Feed, 2; equaled guaranty.
- Igleheart Bros., Inc., Evansville, Ind. Inspection samples analyzed, 3.
- Wheat Bran, 1; equaled guaranty.
- Winter Wheat Gray Shorts and Screenings, 2; equaled guaranty.
- Illinois Cereal Mills, Paris, Ill. Inspection sample of Hominy Feed analyzed, 1; equaled guaranty.
- Jackson Cotton Oil Mill, Jackson, Tenn. Inspection samples of Bell Cow Brand 41% Protein Cottonseed Meal analyzed, 2; 1 deficient in protein.
- Joy Milling Co., Elkton, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and fat; sample is ground wheat.
- Kansas Flour Mills Co., Kansas City, Mo. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Kasco Mills, Toledo, O. Inspection samples analyzed, 19.
- Kasco 18% Protein Broiler-Starter Ration, 1; equaled guaranty.
- Kasco 18% Protein Growing Mash, 1; equaled guaranty.
- Kasco 18% Protein All-Mash Chick Starter, 1; equaled guaranty.
- Apex 15% Protein All-Mash Starter and Grower, 1; a mineral phosphate containing excess fluorine substituted for bone meal; misbranded.
- Kasco 20% Protein Egg Producer Mash, 1; cottonseed meal present tho not guaranteed.
- Apex 18% Protein Egg Mash, 1; equaled guaranty.
- Kasco Horse and Mule Feed, 1; equaled guaranty.
- Kasco 15% Protein Farm Feed, 1; deficient in protein.
- Apex 16% Protein Hog Feed, 1; equaled guaranty.
- Kasco 20% Protein Pig-Hog Feed, 2; 1 no corn germ meal or linseed oil meal found; 1 ingredients not as guaranteed, misbranded.
- Kasco 16% Protein Milk Maker, 1; no corn germ meal found.
- Kasco Sweet 16% Protein Dairy Feed, 3; 1 no corn gluten meal, soybean oil meal or brewers dried grains found; 1 linseed oil meal

- present tho not guaranteed, adulterated with about 190,000 unground weed seeds to 100 pounds of feed, misbranded.
- Kasco Mormilk Brand 24% Protein Dairy Ration, 2; 1 no cottonseed meal, linseed oil meal or ground oats found.
- Apex 24% Protein Dairy Feed, 2; 1 deficient in protein, adulterated with about 144,000 unground weed seeds to 100 pounds of feed, misbranded.
- Keco Milling Co., McKenzie, Tenn. Inspection samples analyzed, 5.
Acro Wheat Bran, 1; excess fiber.
Keco 18% Protein Laying Mash, 2; equaled guaranty.
Keco 18% Protein Pig and Hog Feed, 1; no corn gluten feed found; peanut oil meal present tho not guaranteed.
Keco 24% Protein Dairy Feed, 1; equaled guaranty.
- Keller Hay & Grain Co., Newport, Ky. Inspection samples analyzed, 2.
Hominy Feed, 1; deficient in fat.
Corn and Oats Chop, 1; excess fiber.
- Kellogg Co., Omaha, Nebr. Inspection sample of Hominy Feed analyzed, 1; equaled guaranty.
- Spencer Kellogg & Sons, Buffalo, N. Y. Inspection samples analyzed, 4.
Kellogg's 41% Protein Soybean Oil Meal, 3; equaled guaranty.
Kellogg's 44% Protein Solvent Toasted Soybean Oil Meal, 1; equaled guaranty.
- Kentucky Cotton & Grain Co., Hickman, Ky. Inspection samples analyzed, 2.
Chowmix 13% Protein Hog Feed, 1; equaled guaranty.
Victory 16% Protein Dairy Feed, 1; deficient in protein.
- The Kentucky Rendering Co., Taylorsville, Ky. Inspection samples analyzed, 3.
Blue Grass 60% Protein Meat Scraps, 1; much deficient in protein; misbranded.
Blue Grass 60% Protein Tankage, 2; 1 deficient in protein; 1 much deficient in protein, misbranded.
- The Kentucky Stone Co., Louisville, Ky. Inspection sample of KSC All-Purpose Mineral Feed analyzed, 1; excess salt.
- King Midas Flour Mills, Minneapolis, Minn. Inspection sample of Wheat Red Dog Flour (Hard Wheat) analyzed, 1; equaled guaranty.
- The Kroger Grocery & Baking Co., Cincinnati, O. Inspection samples analyzed, 5.
Kroger's Wesco 17% Protein Starting and Growing Mash, 1; equaled guaranty.
Kroger's Wesco 20% Protein Special Egg Mash, 1; equaled guaranty.
Kroger's Wesco 16% Protein Dairy Feed, 2; equaled guaranty.
Kroger's Wesco 24% Protein Dairy Feed, 1; equaled guaranty.
- Labrot & Graham, Frankfort, Ky. Inspection sample of 28% Protein Distillers Corn Dried Grains analyzed, 1; excess fiber.
- Lake County Oil Mill, Tiptonville, Tenn. Inspection samples of 41% Protein Cottonseed Meal analyzed, 2; 1 deficient in protein and excess fiber.
- Lewisport Mill Co., Lewisport, Ky. Inspection samples analyzed, 2.
Farmers Choice Feed, 1; equaled guaranty.

- Le-Mi-Co 16% Protein Hog Feed, 1; no alfalfa meal found.
- Lexington Roller Mills, Lexington, Ky. Inspection samples analyzed, 13.
- Kentucky Queen 18% Protein Starting and Growing All-Mash, 1; equaled guaranty.
- Kentucky Queen 20% Protein Double X Egg Mash, 1; ground oats present tho not guaranteed.
- Bossie Stock Feed, 2; 1 deficient in fat, no corn gluten feed or ground barley found, alfalfa meal present tho not guaranteed.
- Thoroughbred 16% Protein Hog Ration, 1; deficient in fat.
- Thoroughbred 16% Protein Dairy Feed, 3; 2 deficient in fat; 2 no cottonseed meal found; 1 deficient in protein, no alfalfa meal found.
- Thoroughbred 20% Protein Dairy Feed, 2; 1 no ground barley found; 1 much deficient in protein, no cottonseed meal or linseed oil meal found, adulterated with about 44,800 unground weed seeds to 100 pounds of feed, misbranded.
- Thoroughbred 24% Protein Dairy Feed, 3; 2 deficient in fat; 2 no cottonseed meal or ground barley found; 1 no linseed oil meal found; 1 much deficient in protein and fat, misbranded.
- G. W. Lofton & Son, Providence, Ky. Inspection samples analyzed, 2.
- Horse and Mule Feed, 1; equaled guaranty.
- Lofton's 16% Protein Special Dairy Feed, 1; no wheat bran found; cottonseed meal present tho not guaranteed.
- Logan County Dehydrators, Inc., West Liberty, O. Inspection sample of Green Leaf 20% Protein Dehydrated Alfalfa Meal analyzed, 1; much deficient in protein and much excess fiber; misbranded.
- Loose-Wiles Biscuit Co., New York, N. Y. Inspection sample of Austin's 22% Protein Dog Feed—Kibbled analyzed, 1; equaled guaranty.
- The Loudonville Milling Co., Loudonville, O. Inspection sample of Le Grande Soft Winter Wheat Brown Middlings and Screenings, analyzed, 1; equaled guaranty.
- L. B. Lovitt & Co., Memphis, Tenn. Inspection sample of Lovit Brand 41% Protein Cottonseed Meal analyzed, 1; excess fiber.
- Lynn Grove Milling Co., Lynn Grove, Ky. Inspection sample of Ground Wheat analyzed, 1; deficient in protein and excess fiber.
- Madison Flour Mills, Madison, Ind. Inspection samples analyzed, 3.
- Wheat Brown Middlings, 1; equaled guaranty.
- Tip Top 17% Protein Starting and Growing Mash, 1; deficient in protein, no ground oats found.
- Tip Top 18% Protein Laying Mash, 1; equaled guaranty.
- Magnolia Roller Mills, Magnolia, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; deficient in protein and fat.
- Marianna Sales Co., Memphis, Tenn. Inspection samples analyzed, 2.
- White Mule Brand 41% Protein Cottonseed Meal, 1; deficient in protein and excess fiber.
- White Mule Brand 43% Protein Cottonseed Meal, 1; equaled guaranty.
- Marion Cotton Oil Co., Marion, S. C. Inspection sample of 36% Protein Cottonseed Feed analyzed, 1; equaled guaranty.
- Maritime Milling Co., Buffalo, N. Y. Inspection sample of Hunt Club 23% Protein Dog Feed analyzed, 1; excess fiber.

- Mayfield Sweet Feed Mill, Mayfield, Ky. Inspection sample of State Leader 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- McCarley & Richardson, Russellville, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Gentry McCauley Seed Co., Versailles, Ky. Inspection sample of Pleez-U 16% Protein Sheep Feed analyzed, 1; much deficient in protein; no molasses found; misbranded.
- McMillen Feed Mills, Ft. Wayne, Ind. Inspection sample of Big C 16% Protein Stock Feed analyzed, 1; much excess fiber; adulterated with barley hulls; misbranded.
- Middlesboro Milling Co., Middlesboro, Ky. Inspection samples analyzed, 5.
Hi-Grade Brand Feed, 2; deficient in fat; 1 no ground corn, corn bran or cottonseed meal found.
Hard to Beat Feed, 1; much deficient in protein; deficient in fat; misbranded.
Reliable Brand 24% Protein Dairy Feed, 2; deficient in fat; 1 deficient in protein; 1 much deficient in protein, parched barley present tho not guaranteed, misbranded.
- The Mid-Kansas Milling Co., Salina, Kans. Inspection samples analyzed, 2.
Wheat Gray Shorts and Screenings, 1; equaled guaranty.
Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- The Midland Flour Milling Co., N. Kansas City, Mo. Inspection samples analyzed, 2.
Town Crier Wheat Bran, 1; excess fiber.
Town Crier Wheat Gray Shorts and Screenings, 1; equaled guaranty.
- S. E. Mighton Co., Bedford, O. Inspection sample of Spot 36% Protein Dog Feed analyzed, 1; no ground carrots found.
- Model Mills, Georgetown, Ky. Inspection sample of Best Brand Mixed Feed, analyzed, 1; deficient in fat.
- John Morrell & Co., Ottumwa, Ia. Inspection sample of Red Heart 22% Protein Dog Feed—Diet A analyzed, 1; equaled guaranty.
- Mountain City Mill Co., Chattanooga, Tenn. Inspection samples analyzed, 3.
Blue Stock Mixed Feed, 1; equaled guaranty.
Prize Winner Brand 17% Protein Hog Feed, 1; equaled guaranty.
Blue Cow 16% Protein Feed, 1; deficient in fat.
- Munfordville Milling Co., Munfordville, Ky. Inspection samples analyzed, 2.
Lawler's Feed, 1; equaled guaranty.
Mixed Feed, 1; pea feed present tho not guaranteed.
- Murphy Grain & Milling Co., Owensboro, Ky. Inspection sample of Aiolite 15½% Protein All-Purpose Poultry Mash analyzed, 1; no corn gluten feed or corn gluten meal found.
- Myers & Clark, Ashland, Ky. Inspection samples analyzed, 8.
Ideal Brand 20% Protein Laying Mash, 2; 1 much deficient in protein, misbranded.
Ideal Brand Stock Feed, 1; deficient in fat and much excess fiber; ingredients not as guaranteed; adulterated and misbranded.

- W-W 16% Protein Dairy Feed, 1; no cottonseed meal found.
Ideal Brand 18% Protein Dairy Feed, 1; equaled guaranty.
Ideal Brand 24% Protein Dairy Feed, 3; 2 much deficient in protein, no cottonseed meal found, misbranded; 1 deficient in fat, distillers dried grains present tho not guaranteed.
- National Biscuit Co., New York, N. Y. Inspection sample of Pal 18% Protein Dog Biscuit analyzed, 1; equaled guaranty.
- National Milling Co., Toledo, O. Inspection samples of Namico Wheat Gray Middlings and Screenings analyzed, 2; 1 deficient in protein.
- National Oats Co., E. St. Louis, Ill. Inspection samples analyzed, 12.
Corno 18% Protein Starting Mash, 1; equaled guaranty.
Corno 17% Protein Growing Mash, 1; no corn feed meal found.
Corno 17% Protein Chick Starting and Growing Mash, 1; equaled guaranty
Corno 18% Protein Laying Mash, 2; 1 no corn feed meal found, ground wheat present tho not guaranteed.
Corno 15% Protein Hog Fattener, 1; no cottonseed meal found.
Corno 20% Protein Sow and Pig Feed, 1; equaled guaranty.
Corno Premium Feed, 2; 1 excess fiber.
Corno 16% Protein Dairy Feed, 1; no cottonseed meal found.
Corno 24% Protein Dairy Feed, 2; no corn feed meal or cottonseed meal found; 1 no wheat bran found.
- Nebraska Consolidated Mills Co., Omaha, Nebr. Inspection samples analyzed, 3.
Wheat Byproduct Feed, 1; equaled guaranty.
Wheat Mill Feed, 2; equaled guaranty.
- The New Era Milling Co., Arkansas City, Kans. Inspection sample of Polar Bear Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Newman Chemical Co., Indianapolis, Ind. Inspection sample of New Brand Calcium Carbonate analyzed, 1; equaled guaranty.
- Nolin Milling Co., Nolin, Ky. Inspection sample of XX Mixed Feed analyzed, 1; equaled guaranty.
- North American Feed Co., Louisville, Ky. Inspection samples analyzed, 5.
Nafco 41% Protein Soybean Oil Meal, 1; sample is solvent soybean oil meal.
Nafco 30% Protein Solvent Soybean Byproduct, 2; equaled guaranty.
Nafco Complete Brand 18% Protein Hog Fattener and Grower, 1; deficient in fat; no alfalfa meal found; soybean hulls present tho not guaranteed; misbranded.
Nafco 20% Protein Dairy Feed, 1; equaled guaranty.
- Chas. Nunn & Sons Milling Co., Evansville, Ind. Inspection samples analyzed, 10.
Nunn-Better Brand 17% Protein Poultry All-Mash, 2; 1 no dried buttermilk found.
Nunn-Better Brand 17% Protein Poultry All-Mash with Cod Liver Oil, 1; equaled guaranty.
Nunn-Better Brand 20% Protein Egg Mash, 1; equaled guaranty.

- Nunn-Better Brand 20% Protein Pig and Shoat Ration, 1; deficient in protein.
- Nunn-Better Brand Horse and Mule Feed, 1; excess fiber.
- Nunn-Better Brand 30% Protein Hog Supplement, 1; equaled guaranty.
- Sweet Sixteen 16% Protein Dairy Feed, 1; no cottonseed meal or molasses found.
- Nunn-Better Brand 24% Protein Dairy Feed, 2; much deficient in protein, deficient in fat and excess fiber, no cottonseed meal found, oat hull feed present tho not guaranteed, adulterated and misbranded; 1 no linseed meal found; 1 no ground barley found.
- Ohio Valley Soybean Cooperative, Henderson, Ky. Inspection samples of Cardinal 41% Protein Soybean Oil Meal analyzed, 3; equaled guaranty.
- Old Trusty Dog Food Co., Needham Hts., Mass. Inspection sample of Old Trusty 20% Protein Dog Feed analyzed, 1; equaled guaranty.
- Owensboro Grain Co., Owensboro, Ky. Inspection samples of Greendale 41% Protein Soybean Oil Meal analyzed, 4; equaled guaranty.
- Owensboro Milling Co., Owensboro, Ky. Inspection samples analyzed, 14.
- Wheat Mixed Feed and Screenings, 1; deficient in protein.
- TruTest Brand Hominy Feed, 1; deficient in fat.
- Barnyard Hen Scratch, 1; equaled guaranty.
- TruTest Brand 19% Protein Growing Mash, 2; 1 no corn gluten meal found.
- TruTest Brand 21½% Protein Laying Mash, 1; deficient in protein; no corn gluten meal found.
- TruTest Brand 19% Protein Starting All-Mash, 1; no corn gluten meal found.
- TruTest Brand Horse Feed, 1; much excess fiber; misbranded.
- TruTest Brand 45% Protein Hog Supplement, 1; no alfalfa meal found.
- D and H Stock Feed, 2; 1 excess fiber.
- TruTest Brand 24% Protein Dairy Feed, 3; no cottonseed meal found; distillers dried grains present tho not guaranteed; 1 deficient in protein; 2 deficient in fat.
- Pan-American Mills, Bowling Green, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Paoli Milling Co., Paoli, Ind. Inspection sample of Magic 14% Protein Pig and Hog Fattener analyzed, 1; excess fiber; wheat bran and alfalfa leaf meal present tho not guaranteed.
- I. E. Payne & Co., Eubank, Ky. Inspection samples of Farmer's Choice Mixed Feed analyzed, 1; deficient in protein.
- Pembroke Roller Mills, Pembroke, Ky. Inspection sample of Mixed Feed analyzed, 1; no corn bran found.
- Pennington Milling Co., Pennington Gap, Va. Inspection sample of Blue Bird All-Purpose Stock Feed analyzed, 1; equaled guaranty.
- Perfection Foods Co., Battle Creek, Mich. Inspection samples of Perfection Brand 14% Protein Dog Feed analyzed, 2; 1 deficient in protein.
- Pillsbury Flour Mills Co., Minneapolis, Minn. Inspection sample of Palisade M. F. Feed analyzed, 1; equaled guaranty.

- Ph. H. Postel Milling Co., Mascoutah, Ill. Inspection samples analyzed, 9.
Ground Rye, 1; equaled guaranty.
Elegant 18% Protein Chick Starter, 1; deficient in fat; no ground corn or ground oats found.
Elegant 18% Protein Laying Mash, 1; deficient in fat; no ground corn, linseed oil meal or ground oats found.
Elegant Horse and Mule Feed, 1; equaled guaranty.
Elegant 20% Protein Pig and Sow Feed, 1; deficient in fat; no corn gluten meal found.
Elegant 24% Protein Dairy Ration, 4; 3 much deficient in protein, misbranded; 1 no ground oats or alfalfa meal found, linseed oil meal present tho not guaranteed; 1 no corn gluten product or cottonseed meal found; 1 adulterated with about 3,500,000 unground weed seeds to 100 pounds of feed.
- Provico Feeds & Concentrates, Cincinnati, O. Inspection samples analyzed, 6.
Provico 20% Protein Broiler Mash, 1; no linseed oil meal found; kaffir corn present tho not guaranteed.
Big V 18% Protein Egg Mash, 1; no corn gluten feed or linseed oil meal found.
15% Protein Pig and Hog Feed, 1; deficient in fat; no corn gluten feed found; kaffir corn, ground oats and alfalfa meal present tho not guaranteed.
16% Protein Dairy Feed, 2; 1 no corn gluten feed found; 1 alfalfa meal present tho not guaranteed.
Provico 24% Protein Dairy Feed, 1; equaled guaranty.
- Purcell Seed Co., Evansville, Ind. Inspection samples analyzed, 5.
Purcell's 16% Protein All-Mash Poultry Ration, 1; equaled guaranty.
Purcell's 16% Protein All-Mash Poultry Ration with Cod Liver Oil, 1; equaled guaranty
Purcell's 20% Protein Pig and Sow Ration, 1; equaled guaranty.
Judge 35% Protein Shoat and Hog Supplement, 1; equaled guaranty.
Purcell's 18% Protein Dairy Feed, 1; deficient in fat.
- The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 30.
Victor Rolled Oats, 1; equaled guaranty.
Ful-O-Pep 17% Protein Chick Starter, 1; equaled guaranty.
Ful-O-Pep 19% Protein Growing Mash, 2; equaled guaranty.
Ful-O-Pep 20% Protein Laying Mash, 3; equaled guaranty.
Big Egg 20% Protein Laying Mash, 2; 1 no hominy feed found; kaffir corn present tho not guaranteed.
Ful-O-Pep 26% Protein Turkey Starter, 1; equaled guaranty.
Ful-O-Pep 20% Protein Turkey Grower, 1; equaled guaranty.
Ful-O-Pep Horse Feed, 1; excess fiber.
Quaker Brand Green Cross Horse Feed, 2; equaled guaranty.
Ful-O-Pep 16% Protein Pig-N-Sow Feed, 2; 1 no molasses found.
Ful-O-Pep 32% Protein Hog Feed Supplement, 1; equaled guaranty.
Ful-O-Pep 14% Protein Sheep Range Breeder Cubes, 1; equaled guaranty.
Quaker Schumacher Sweet Feed, 3; 1 excess fiber, misbranded; 1 no ground corn or hominy feed found, kaffir corn present tho not guaranteed.
White Diamond Stock Feed, 2; equaled guaranty.

- Quaker 16% Protein Dairy Feed, 3; 1 no hominy feed found, kaffir corn present tho not guaranteed; 1 no corn gluten feed found, ground oats and distillers dried grains present tho not guaranteed.
- Victor Economy Brand 16% Protein Dairy Feed, 2; distillers dried grains present tho not guaranteed; 1 no ground barley found.
- Ful-O-Pep 18% Protein Dairy Ration, 1; equaled guaranty.
- Ful-O-Pep 32% Protein Dairy Ration Supplement, 1; equaled guaranty.
- The Quaker Oats Co., Ken-L-Products Division, Rockford, Ill. Inspection samples analyzed, 2.
- Ken-L-Biscuit 20% Protein Dog Feed, 1; equaled guaranty.
- Ken-L-Ration Dog Feed, 1; equaled guaranty.
- Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 40.
- Purina 18% Protein Chick Startena, 2; equaled guaranty.
- Purina 18% Protein Broiler Chow, 2; equaled guaranty.
- Purina 17% Protein Chick Growena All-Mash, 2; equaled guaranty.
- Purina 18% Protein Lay Chow, 2; equaled guaranty.
- Purina 22% Protein Lay Chow, 1; equaled guaranty.
- Purina 22% Protein Breeder Lay Chow, 1; no corn germ meal found.
- Purina 15½% Protein All-Mash Layena (Complete Ration), 1; equaled guaranty.
- Purina 24% Protein Turkey Startena, 1; equaled guaranty.
- Purina 26% Protein Turkey Growing Chow, 1; equaled guaranty.
- Purina 18% Protein Turkey Growena, 1; equaled guaranty.
- Purina 32% Protein Chowder Supplement, 1; equaled guaranty.
- Purina Omolene, 2; equaled guaranty.
- Purina 14% Protein Hog Fatena, 3; 1 deficient in fat; 1 no ground rye found.
- Purina War Time 35% Protein Hog Chow Supplement, 2; equaled guaranty.
- Purina 14½% Protein Rabbit Chow Checkers (Complete Ration), 2; equaled guaranty.
- Purina 16% Protein Goat Chow, 2; equaled guaranty.
- Purina 12½% Protein Dry and Freshening Chow, 2; equaled guaranty.
- Purina 20% Protein Steer Fatena C, 2; equaled guaranty.
- Purina 19½% Protein Calf Startena, 1; equaled guaranty.
- Protena Brand 16% Protein Dairy Feed, 3; equaled guaranty.
- Purina 16% Protein Milk Chow, 1; soybean oil meal present tho not guaranteed.
- Purina 16% Protein Cow Chow, 1; equaled guaranty.
- Purina 18% Protein Cow Chow, 1; equaled guaranty.
- Purina 24% Protein Cow Chow, 2; 1 soybean oil meal present tho not guaranteed.
- Purina 34% Protein Cow Chow Supplement, 1; equaled guaranty.
- Randolph Milling Co., Bandana, Ky. Inspection samples of Nu-Joy 16% Protein Dairy Feed analyzed, 2; 1 excess fiber.
- R. D. Riedling, Louisville, Ky. Inspection samples analyzed, 3
- Magnolia 24% Protein Dairy Feed, 1; deficient in protein and fat; no corn gluten feed, cottonseed meal or linseed oil meal found; flax plant byproduct present tho not guaranteed; adulterated and misbranded.

- Magnolia 40% Protein Hog Supplement, 2; 1 deficient in fat.
- Robbins Bros., Auburn, Ky. Inspection samples analyzed, 3.
Wheat Feed, 1; deficient in fat.
Corn Byproduct Feed, 1; deficient in fat.
Horse and Mule Feed, 1; deficient in protein and much excess fiber; misbranded.
- Robinson Milling Co., Somerset, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Rocky Hill Milling Co., Rocky Hill, Ky. Inspection sample of Tip Top 24% Protein Cow Feed analyzed, 1; equaled guaranty.
- Royal-Stafolife Mills, Memphis, Tenn. Inspection sample of Ribbon Sweet Stock Feed analyzed, 1; much excess fiber; ground wheat present tho not guaranteed; misbranded.
- Rush County Mills, Rushville, Ind. Inspection samples analyzed, 6.
Imperial Brand 18% Protein Egg Mash, 1; equaled guaranty.
RCM 16% Protein All-Mash, 1; equaled guaranty.
RCM 24% Protein Turkey Starting Mash, 1; linseed oil meal present tho not guaranteed.
RCM 24% Protein Dairy Feed, 3; 1 deficient in protein; 2 adulterated with peanut hulls, misbranded; 1 no alfalfa meal or molasses found, adulterated with corn cob meal.
- The Russell Milling Co., Russell, Kans. Inspection sample of Russell's Best Brand Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Schultz, Baujan & Co., Beardstown, Ill. Inspection samples analyzed, 5.
Honest Brand 17% Protein Starting and Growing Mash, 1; linseed oil meal present tho not guaranteed.
Honest Brand 18% Protein Egg Mash, 1; no ground oats found.
Critic Brand 20% Protein Egg Mash, 1; equaled guaranty.
Critic Brand 35% Protein Hog Supplement, 1; equaled guaranty.
Critic Brand 16% Protein Dairy Feed, 1; equaled guaranty.
- Scientific Milling Co., E. St. Louis, Ill. Inspection sample of Scientific Brand 18% Protein Laying Mash analyzed, 1; no corn germ meal found; meat scrap present tho not guaranteed.
- The Scott County Milling Co., Sikeston, Mo. Inspection samples analyzed, 4.
Gristo 20% Protein Laying Mash, 1; no dried buttermilk found.
Semo 16% Protein Dairy Feed, 1; no alfalfa meal found.
Semo 16½% Protein Milk Maker, 2; no linseed oil meal found; 1 no hominy feed or alfalfa meal found, ground oats present tho not guaranteed, adulterated with about 208,000 unground weed seeds to 100 pounds of feed, misbranded.
- Sebree Milling Co., Sebree, Ky. Inspection sample of Korb's Heavy Mixed Feed analyzed, 1; deficient in protein.
- The Security Flour Mills Co., Abilene, Kans. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- The Shellabarger Mill & Elevator Co., Salina, Kans. Inspection samples analyzed, 3.
Wheat Bran and Screenings, 1; equaled guaranty.
Wheat Gray Shorts and Screenings, 1; equaled guaranty.

- Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- Shipp & Buckner Feed Mills, Campbellsville, Ky. Inspection samples analyzed, 2.
Economy Brand 17% Protein Starter and Grower, 1; no corn germ meal found; corn gluten meal, alfalfa product and distillers dried solubles present tho not guaranteed.
Economy Brand 16% Protein Dairy Feed, 1; equaled guaranty.
- Slaughters Milling Co., Slaughters, Ky. Inspection samples analyzed, 2.
CCC Ground Wheat, 1; excess fiber.
Mixed Feed, 1; deficient in protein.
- Smithfield Milling Co., Smithfield, Ky. Inspection sample of Best Yet Scratch Feed analyzed, 1; equaled guaranty.
- The Southern Cotton Oil Co., Montgomery, Ala. Inspection samples analyzed, 2.
36% Protein Cottonseed Feed and Limestone, 1; equaled guaranty.
Sco-Co 45% Protein Peanut Oil Meal, 1; deficient in protein.
- Woodford Spears & Sons, Paris, Ky. Inspection sample of Bourbon Horse and Mule Feed analyzed, 1; equaled guaranty.
- The George T. Stagg Co., Frankfort, Ky. Inspection samples analyzed, 2.
28% Protein Distillers Wheat Dried Grains, 1; excess fiber.
28% Protein Distillers Sorghum Dried Grains, 1; equaled guaranty.
- A. E. Staley Manufacturing Co., Decatur, Ill. Inspection samples of Staley's 41% Protein Soybean Oil Meal analyzed, 3; equaled guaranty.
- Staley Milling Co., Kansas City, Mo. Inspection samples analyzed, 4.
Four Bells 17% Protein Starter Mash, 1; equaled guaranty.
Staley's Record Brand 18% Protein Egg Mash, 1; deficient in protein.
Staley's Record Brand 15% Protein Egg All-Mash, 1; equaled guaranty.
Staley's 13% Protein Hog Fattener, 1; excess fiber; no corn germ meal, corn gluten feed or cottonseed meal found.
- Standard Milling Co., Elkton, Ky. Inspection sample of Mixed Feed analyzed, 1; no corn bran present.
- Star Milling Co., Clinton, Ky. Inspection samples analyzed, 3.
Star Brand 20% Protein Laying Mash, 1; deficient in protein.
Special Brand 16½% Protein Hog and Pig Feed, 1; equaled guaranty.
Tenn. Special Brand 16% Protein Dairy Feed, 1; equaled guaranty.
- Sun-Ray Feed Mills, Lexington, Ky. Inspection samples analyzed, 15.
Sun-Ray 18% Protein Broiler Ration, 1; excess fiber.
Booster 18% Protein Laying Mash, 2; equaled guaranty.
Sun-Ray 20% Protein Laying Mash, 1; distillers dried grains present tho not guaranteed; no kelp meal found.
Sun-Ray 18% Protein Starting and Growing All-Mash, 1; no linseed oil meal or kelp meal found.
Sun-Ray 25% Protein Turkey Starting Mash, 1; no kelp meal found.
Sun-Ray 17% Protein Hog Ration, 1; peanut oil meal present tho not guaranteed.
Booster 13% Protein Mixed Feed, 1; ground corn, ground oats, ground barley, and alfalfa product present tho not guaranteed.
Sun-Ray 17% Protein Stock Feed, 2; deficient in protein; 1 deficient in fat, no corn germ meal found.

- Sun-Ray 15% Protein Sheep Feed, 1; equaled guaranty.
Booster 16% Protein Dairy Feed, 1; deficient in fat; no ground barley found; peanut oil meal, soybean hull product and ground coffee substitute present tho not guaranteed; misbranded.
Sun-Ray 16% Protein Dairy Feed, 1; no cottonseed meal found.
Sun-Ray 20% Protein Dairy Ration, 1; equaled guaranty.
Sun-Ray 24% Protein Dairy Feed, 1; no linseed oil meal or wheat germ found; corn bran present tho not guaranteed.
- Sun-Ray Feed Mills, Bowling Green, Ky. Inspection samples of Booster 16% Protein Stock Feed analyzed, 2; no corn oil meal found; peanut oil meal present tho not guaranteed; 1 ground weed seeds present tho not guaranteed.
- Sunshine Feed Store, Louisville, Ky. Inspection samples analyzed, 9.
Derby City 17% Protein Growing Mash with Sardine Oil, 1; excess fiber.
Derby City 18% Protein Egg Mash, 1; equaled guaranty.
Derby City 18% Protein Egg Mash with Sardine Oil, 1; no corn gluten feed or corn gluten meal found.
Derby City 16% Protein Hog Ration, 1; equaled guaranty.
Sunshine 15% Protein Sheep and Lamb Feed, 1; no corn gluten feed found.
Derby City 18% Protein Dairy Feed, 1; no brewers dried grains found; ground oats and ground barley present tho not guaranteed.
Derby City 24% Protein Dairy Feed, 3; 2 barley hulls present tho not guaranteed; 1 no linseed oil meal found; 1 ground oats and ground barley present tho not guaranteed.
- Sunshine Stores, Inc., Paducah, Ky. Inspection sample of Hen Scratch Feed analyzed. 1; deficient in fat; ground barley present tho not guaranteed.
- D. B. Sutherland & Sons, Bloomfield, Ky. Inspection samples analyzed, 3.
Corn Byproduct Feed, 1; deficient in protein and fat and excess fiber.
Kentucky Star 18% Protein Laying Mash, 1; deficient in protein; no corn oil cake found; corn gluten product present tho not guaranteed.
Kentucky Star 15% Protein Hog Feed, 1; no cottonseed meal or linseed meal found.
- Sweet Feeds, Inc., Hopkinsville, Ky. Inspection sample of Sweet Mix 16% Protein Dairy Feed analyzed, 1; much excess fiber; misbranded.
- Sweet Feed Mills, Bowling Green, Ky. Inspection samples analyzed, 3.
Ace 16% Protein Dairy Feed, 2; no distillers dried grains found; 1 deficient in fat and excess fiber, ground wheat present tho not guaranteed; 1 no cottonseed meal found.
Ace 24% Protein Dairy Feed, 1; much deficient in protein; no cottonseed meal, ground oats or distillers dried grains found; misbranded.
- Swift & Co., Chicago, Ill. Inspection samples analyzed, 2.
Swift's 50% Protein Meat and Bone Scrap, 1; excess fiber.
Swift's Pard 22% Protein Dog Feed, 1; equaled guaranty.
- Swift & Co. Oil Mill, Cairo, Ill. Inspection samples analyzed, 5.

- Cotton Bloom 41% Protein Cottonseed Meal, 2; deficient in protein.
Swift's 43% Protein Soybean Oil Meal, 3; equaled guaranty.
- Swift & Co. Oil Mill, Memphis, Tenn. Inspection samples of Cotton Bloom 41% Protein Cottonseed Meal analyzed, 2; 1 deficient in protein.
- Tell City Flouring Mills, Tell City, Ind. Inspection samples analyzed, 4.
Hoosier 18% Protein Egg-Producer Mash, 1; excess fiber; fish meal present tho not guaranteed.
Hoosier 15% Protein All-Mash Poultry Ration, 1; equaled guaranty.
Hoosier 16% Protein Pig and Hog Feed, 1; equaled guaranty.
Hoosier Special Mixed Feed, 1; equaled guaranty.
- Thomson's Mill, Madisonville, Ky. Inspection samples analyzed, 7.
AP 16% Protein All Purpose Poultry Mash, 1; equaled guaranty.
Eighty-five Horse and Mule Feed, 1; equaled guaranty.
16% Protein Dairy and Hog Feed, 2; 1 deficient in fat; 1 lespedeza meal and molasses present tho not guaranteed.
West Kentucky Farm Feed, 1; deficient in fat; no corn gluten feed found.
Thomson's Ideal Brand 16% Protein Dairy Feed, 1; no cottonseed meal or lespedeza meal found.
Thomson's 24% Protein Dairy Feed, 1; much deficient in protein; no cottonseed meal or brewers dried grains found; misbranded.
- The Thorobread Co., Cincinnati, O. Inspection samples of Thorobread 17½% Protein Dog and Puppy Feed—Kibbled analyzed, 1; equaled guaranty.
- Tilford & Walters, Metropolis, Ill. Inspection samples analyzed, 3.
Masco 19% Protein Laying Mash, 2; 1 no ground corn found; 1 no distillers dried grains and solubles found.
Masco Special Brand 16% Protein Dairy Feed, 1; deficient in fat; no cottonseed meal found; ground wheat and lespedeza meal present tho not guaranteed.
- 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.
- Trenton Milling Co., Trenton, Ill. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- The Ubiko Milling Co., Cincinnati, O. Inspection samples analyzed, 34.
Ubiko 18% Protein Broiler Ration, 1; equaled guaranty.
Ubiko 20% Protein Egg and Breeder Mash, 2; equaled guaranty.
Sunbeam 20% Protein Laying Mash, 1; no corn meal found; kaffir corn present tho not guaranteed.
Ubiko 18% Protein All-Mash Starter, 2; equaled guaranty.
Ubiko 15% Protein All-Mash Developer, 2; no corn gluten meal found; 1 linseed oil meal present tho not guaranteed.
Ubiko 16% Protein All-Mash Complete Laying Ration, 3; 1 no corn gluten meal found.
Ubiko 14% Protein Fattening Mash, 1; no corn germ meal found; corn gluten feed present tho not guaranteed.
Ubiko 25% Protein Turkey Starter, 1; equaled guaranty.

- Ubiko 16% Protein Turkey All-Mash Growing Ration, 1; no corn gluten meal found.
- Ubiko 32% Protein Poultry Mash Supplement, 1; equaled guaranty.
- Crusader Horse Feed, 1; equaled guaranty.
- Ubiko 16% Protein Pig and Sow Ration, 1; wheat bran present tho not guaranteed.
- Ubiko 30% Protein Hog Supplement, 2; no peanut meal or cottonseed meal found, corn gluten meal present tho not guaranteed; 1 no linseed meal found; ground oats and ground barley present tho not guaranteed.
- Honeycomb Brand Sweet Feed, 3; equaled guaranty.
- Ubiko 12% Protein Rabbit Pellets, 2; equaled guaranty.
- Ubiko 17% Protein Calf Starter, 1; alfalfa meal present tho not guaranteed.
- Clover Bloom Sweet 16% Protein Dairy Feed, 3; 2 no malt sprouts found; 1 ground corn present tho not guaranteed; 1 corn feed meal present tho not guaranteed; 1 no hominy meal or corn gluten feed found, kaffir corn present tho not guaranteed.
- Union Grains 20% Protein Sweet Dairy Ration, 2; equaled guaranty.
- Union Grains 24% Protein Dry Dairy Ration, 2; 1 no hominy meal found, kaffir corn present tho not guaranteed.
- Union Grains 24% Protein Sweet Dairy Ration, 1; equaled guaranty.
- Union Grains 32% Protein Dairy Ration Supplement, 1; deficient in fat; no cottonseed meal found.
- Valier & Spies Milling Corp., St. Louis, Mo. Inspection sample of Valier's Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Van Meter-Terrell Feed Co., Lexington, Ky. Inspection samples analyzed, 2.
- Viola 20% Protein Cow Feed, 1; equaled guaranty.
- Viola 15% Protein Sheep Feed, 1; equaled guaranty.
- Variety Foods, Inc., Indianapolis, Ind. Inspection sample of Vigor 30% Protein Dog Feed analyzed, 1; equaled guaranty.
- C. F. Vissman & Co., Louisville, Ky. Inspection sample of Vissman's 50% Protein Ground Meat Scraps analyzed, 1; equaled guaranty.
- Walton Feed Mills, Walton, Ky. Inspection sample of Big Bone 24% Protein Dairy Ration analyzed, 1; no cocoanut oil meal found.
- Warren County Mills, Bowling Green, Ky. Inspection samples of Stock Mixed Feed analyzed, 2; 1 deficient in fat, no rice bran, ground corn or cottonseed meal found, wheat flour middlings present tho not guaranteed; 1 much excess fiber, adulterated with peanut product, misbranded.
- Washington County Feed Store, Springfield, Ky. Inspection samples analyzed, 4.
- Washington Co. 18% Protein Chick Starter and Grower, 1; equaled guaranty.
- Washington Co. 20% Protein Laying Mash, 2; equaled guaranty.
- Washington Co. 14% Protein Sheep Feed, 1; equaled guaranty.
- The J. R. Watkins Co., Winona, Minn. Inspection sample of Watkins Stock Mineral analyzed, 1; excess fluorine; misbranded.

Weisenberger Sanitary Flour Mills, Midway, Ky. Inspection samples of Repeater Feed analyzed, 2; equaled guaranty.

Wiedlocher & Sons, Springfield, Ill. Inspection samples analyzed, 7.

Faultless Brand 17% Protein Growing Mash, 1; fish meal present tho not guaranteed.

Faultless Brand 17% Protein All-Mash Starting and Growing, 1; deficient in fat, ground barley product present tho not guaranteed.

Faultless Brand 19% Protein All-Mash Broiler Ration, 1; excess fiber.

Faultless Brand 20% Protein Egg Mash, 1; equaled guaranty.

Faultless Brand 20% Protein Pig and Hog Feed, 1; equaled guaranty.

Congress 16% Protein Dairy Feed, 1; equaled guaranty.

Faultless Brand 24% Protein Dairy Feed, 1; equaled guaranty.

Williamstown Roller Mill, Williamstown, Ky. Inspection samples analyzed, 2.

Our Own 18% Protein Egg Mash, 1; no molasses found; cottonseed meal present tho not guaranteed.

Our Own 18% Protein Dairy Feed, 1; no corn gluten feed or cottonseed meal found.

Winchester Milling Co., Winchester, Ky. Inspection samples analyzed, 2.

Ground Wheat, 1; equaled guaranty.

Perfection Brand Feed, 1; much deficient in protein; misbranded.

Winn Milling Co., Greensburg, Ky. Inspection samples analyzed, 2.

Daisy 17% Protein Starter and Grower, 1; no corn oil cake meal found; corn gluten meal present tho not guaranteed.

Daisy 18% Protein Laying Mash, 1; no corn oil cake meal found; ground barley present tho not guaranteed.

Winn & Tobin Milling Co., Marion, Ky. Inspection samples analyzed, 2.

CCC Ground Wheat, 1; equaled guaranty.

Daisy 18% Protein Laying Mash, 1; no corn oil cake meal found; corn gluten meal present tho not guaranteed.

J. W. Zaring Grain & Mill Co., Richmond, Ky. Inspection sample of

Bonanza Feed analyzed, 1; much deficient in protein; excess corn byproduct present; misbranded.

