

Kentucky Agricultural Experiment Station

UNIVERSITY OF KENTUCKY

Thomas P. Cooper, Director

COMMERCIAL FEEDS IN KENTUCKY IN 1942

By J. D. TURNER, STACY B. RANDLE, W. G. TERRELL and J. J. ROSE

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This bulletin contains the results of inspection and analyses of commercial feeds sold in Kentucky during 1942 and other information helpful to those who purchase commercial feeds.

Never in our history has there been such a demand for food, the most needed being meat, milk, eggs, cheese. The farmers were able with the aid of good feeds, to meet this demand in most part in 1942, but shortages in high-protein materials in the latter part of the year made this demand an acute and serious problem. The shortage is more serious in 1943 and will likely continue for a considerable time beyond 1943. Farmers are urged to conserve feeds of every nature and grow as much feed as possible, especially legumes.

The tonnage of commercial feeds sold in Kentucky in 1942, about 426,805 tons, as estimated from the number of tax tags issued, showed a considerable increase over 1941. About 43 percent of this tonnage was straight byproduct feed, 53.7 percent special-purpose feed, and the small remainder of a miscellaneous nature. Of the total tonnage consumed in Kentucky in 1942, about 229,000 tons were special-

purpose feeds of which 27 percent were dairy feeds, 51 percent poultry feed, 3.8 percent horse feed, and 10.5 percent hog feed. A summary of sales by class of feed, in tonnage, is given in Table 1.

TABLE 1.—SUMMARY OF SALES BY CLASS OF FEED

Straight byproducts		
Alfalfa meal		275
Barley, ground		1,425
Bone meal		400
Brewers dried grains		325
Brewers dried grains and cane molasses.....		475
Corn byproduct feed		2,525
Corn feed meal		2,650
Corn gluten feed		150
Corn meal		1,125
Cottonseed meal		11,100
Cracked corn		22,105
Crushed ear corn		150
Distillers corn dried grains		1,675
Distillers corn dried grains and cane molasses.....		225
Dried beet pulp		75
Dried milk byproducts		25
Hominy feed		18,275
Hominy meal		700
Linseed oil meal		1,355
Meat scraps		800
Meat and bone scraps		1,000
Miscellaneous wheat feeds		3,275
Mixed feed (wheat byproduct with small amount of corn bran).....		20,300
Oats, ground		425
Rye middlings and screenings		75
Soybean oil meal		12,020
Tankage		3,400
Wheat bran		6,450
Wheat brown middlings or shorts.....		20,900
Wheat flour middlings		525
Wheat gray middlings or shorts.....		18,075
Wheat, ground		12,170
Wheat mixed feed		16,450
Wheat red dog flour		2,825
Special-purpose feeds		
Calf meal		1,155
Dairy feed:		
16% protein	29,475	
20% protein	4,550	
24% protein	24,850	
Supplement	2,450	
		61,325
Dog feed:		
Canned	360	
Dry	3,255	
		3,615
Goat feed		175
Hog feed:		
Fattening and growing	8,000	
Supplement	16,220	
		24,220
Horse and mule feed		8,685
Pigeon feed		50
Poultry grains:		
Chick	4,750	
Scratch	26,435	
		31,185
Poultry mash:		
All-mash growing ration	2,110	
All-mash laying ration	1,765	
All-mash poultry ration	5,820	
All-mash starting ration	1,190	

All-mash starting and growing	3,930	
Fattening mash	2,100	
Growing and broiler	13,085	
Laying mash	37,580	
Starting mash	8,335	
Starting and growing mash	5,070	
Supplement mash	2,875	
Turkey growing mash	1,910	
Turkey laying mash	75	
Turkey starting mash	1,010	
Turkey supplement mash	125	86,980
Rabbit feed	760	
Sheep feed	1,050	
Stock feed	9,800	
Miscellaneous feeds		
Mineral feed	2,985	
Miscellaneous	695	
Oat hull feed and cane molasses.....	400	

CHEMICAL STANDARDS AND REGULATIONS

Minimum chemical standards and regulations of feeds for their distribution by the industry have been established by the Department for many years. The standards are modified from time to time as sufficient experimental evidence and conditions justify. The minimum for protein in special-purpose and byproduct feeds is sufficiently high to assure that materials of good quality are used in making them. Minimum fat requires the ingredients to be from grains that have not been degermed or improperly milled and excludes excessive fillers of low fat content. The standard for maximum fiber requires materials of good quality, excludes excessive fillers and materials of highly fibrous nature and assures a high percentage of nitrogen-free extract.

TABLE 2.—CHEMICAL STANDARDS AND REGULATIONS

1. Chemical Standards	Minimum protein, percent	Minimum fat, percent	Maximum fiber, percent
(a) Standard byproducts			
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
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
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 feeds			
All-mash broiler ration	15.00	4.00	6.00
All-mash growing ration	15.00	4.00	6.00
All-mash laying 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 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

- (a) In making registrations, care should be taken 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 must be called by the names 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.

3. Ingredients

- (a) Basic or essential organic food ingredients such as wheat bran, cottonseed meal, corn meal, alfalfa meal, etc., stated in the guaranty must be in 3% each or more. If not, the feed will be classed as misbranded.
- (b) Vitamin carriers must be correctly listed, grouped together, and total percentage given.
- (c) Mineral ingredients, generally regarded as dietary factors essential for the normal nutrition of animals, except bone and kelp, when added to a feed must not exceed 3%.
The amount of salt in any stock feed, including poultry feeds, should not exceed 1%.
- (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.

READ THE TAG

The tag should tell the truth. The best information and protection the purchaser of feeds has is the tag and the honesty of the manufacturer. It contains the name and address of the manufacturer and his guaranty. The purchaser should read the tag carefully and study the guaranty. Compare the tag with the record of the manufacturer in the summary of results in the back part of this bulletin. If his record is good, you can be reasonably sure the feed is what it is represented to be on the tag. If his record is bad, then the feed is likely to be poor.

A feeder who buys on price instead of quality, tho price is always a factor to be considered, is practicing false economy. A cheap "yellow tag" feed usually is the costliest feed a farmer can buy, because of the small amount and food quality of the nutrients and the unwholesomeness of the feed.

MINERAL FEEDS

Certain mineral nutrients are essential to the health and growth of plants and animals. Plants get their mineral requirements from the soil. Animals, in turn, get their minerals from plant and animal sources, and if additional minerals are needed, they may be supplied by mineral supplements, such as salt and ground limestone. Most natural feeds contain the necessary minerals except salt, especially the minor ones; but if the soil is deficient in minerals, vegetation grown on it, including food plants, will also be deficient. Where there is need of additional mineral nutrients, other than salt, such requirements are usually limited to calcium, phosphorus, manganese, and iodine. Salt should be given separately. Usually it is not best to put it into the feed, except for fowls.

Purgatives, worm remedies, medicines, poisons, and tonics are prohibited in stock feeds and supplemental mineral feeds.

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

TABLE 3.—MINERAL AND OTHER MATERIALS USUALLY INCLUDED IN MINERAL MIXTURES

Common name	Chemical composition or technical name	Properties
Aniseed	Seed of the anise	Aromatic, carminative
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
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
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
Phosphatic limestone	Calcium carbonate, tricalcium phosphate and calcium fluoride	Antacid, calcium and phosphorus nutrients
Potassium iodide	Same	Alterative, iodine nutrient

(Table 3 continued on following page.)

TABLE 3.—MINERAL AND OTHER MATERIALS USUALLY INCLUDED IN MINERAL MIXTURES—Continued

Common name	Chemical composition or technical name	Properties
Quassia	Quassia chips	Bitter tonic
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
Wormwood	Absinthium	Tonic, anthelmintic

“YELLOW-TAG” FEEDS

A “yellow-tag” feed is one that contains some material of little or no feed value, known as a “filler.” Often the feeder has on his place going to waste or he can get near-by at a nominal price, materials as good as the fillers he buys at a fancy price in a “yellow-tag” feed. Usually the cheapest, poorest materials are put into filler feeds.

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 more in 16-percent-protein dairy feeds. Of the 61,325 tons of dairy feeds sold in Kentucky during 1942, 28,000 tons contained fillers, or about 45 percent of the total amount of dairy feeds. Over 8,000 tons of fillers were used in feeds during 1942, most of which were low in cost and feed value. Allowing an average value of \$20.00 a ton, which seems liberal, the 8,000 tons would cost \$160,000. This material which was bought for \$160,000 was mixed in “yellow-tag” feeds which sold for an average of \$40.00 a ton, to the feeder, or \$320,000, resulting in a loss to feeders of \$160,000 for the year. *This represents a tremendous loss to the feeders in actual cash and additional loss in production, resulting from these filler materials.

Besides a lower level in production by feeding low-quality filler feeds, a feeder is taking a chance with his stock because of the unwholesomeness of many of these feeds, and with his land in stocking it with weeds from undue amounts of unground weed seeds usually found in screenings and screenings waste used as fillers in feeds.

This may be illustrated further as follows. A farmer can buy 2 tons of a well-balanced 24-percent protein, 4-percent fat, and 10-percent fiber dairy feed for \$94.00 or \$32.00 less money than 3 tons of 16-percent protein, 3.5-percent fat, and 15-percent fiber filler or "yellow-tag" dairy feed which cost \$126.00 (wholesale on Louisville market), with same amount of protein, 50 pounds less fat in the 24-percent protein feed, but 500 pounds more fiber in the 16-percent protein feed. This means, for about the same amount of nutrients, with digestibility and quality much in favor of the 24-percent protein dairy feed, an actual cost-saving of \$32.00. In addition the purchaser would save the freight, cost of bags, tax, and handling on one ton of the feed. The results in feeding no doubt would give a further saving.

FEEDERS' GUIDE

Feeders have never faced a situation like the present. Now of all times the best ability is needed to buy and conserve feed. As much feed must be grown as possible. If a feeder can raise legumes his problem is very largely solved, and if he can raise both grains and legumes, he will need very little if any high-protein supplement, as legume hays are rich in protein, certain vitamins, and minerals.

A feeder has several aids to guide him in selecting a feed. He should never buy a feed that is not labeled with a state guaranty tag. He should read the tag carefully and decide from the information given on the tag whether the feed suits his purpose. He can also safeguard himself by buying from reputable manufacturers who have good records and make good, clean feeds. He should view with suspicion all yellow-tag feeds, as such feeds contain fillers of little or no feed value. Often he has materials going to waste on his farm of as much or more feed value. Filler feeds are usually the costliest when the actual feeding results are considered.

If a feeder is in doubt as to the kind of feed his animals need, he should consult the Kentucky Agricultural Experiment Station or an authority on feeds and their use.

DOG FEEDS

There are two general classes of commercial dog feeds: dry and canned. Because of the prohibition by the government of the use of tin in the manufacture of canned dog feeds, comparatively small tonnage of this class of feed was sold in Kentucky during 1942. A total of 83 official samples were collected and analyzed, 40 samples

of dry and 43 samples of canned feed. Of the dry feed, 2 were short in protein, 3 in fat, 1 contained excess fiber, and 1 was misbranded. Of the canned feeds, 8 were short in protein, 11 in fat, 15 short in net weight, 11 contained excess water, and 12 were misbranded.

As shown by the analyses in Table 4, the dry feeds often have three to four times more feed value than certain brands of canned feeds. Much of the canned feed is made of inferior meat and meat byproducts and vegetables, and contains an excess of water.

The popularity of canned dog feed over dry feed is not due to quality and economy in cost but apparently to convenience in handling and feeding. The market price of the better grades of dry dog feed of an average of 10 percent water is about \$7.00 per 100 pounds, while the average cost of the better grades of canned dog feed of an average water content of 70 to 75 percent is \$28.60 per 100 pounds, or about four times as much as the dry feed. To illustrate further, for the same amount of food nutrients, with quality in favor of the dry feed, the purchaser pays more than \$21.00 per 100 pounds for water, container, and convenience in the canned dog feed.

TABLE 4.—ANALYSES OF DOG FEEDS
(Manufacturer's guaranty is printed in **bold-face type**)

Manufacturer and brand name	Sample taken from—	Pro- tein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	Nitrogen- free extract			
Allied Mills, Inc., Chicago, Ill.								
Wayne 25% Protein Dog Feed Blox	Wayne Feed Store, Jeffersontown	27.4	4.5	4.5	.....	.....	.....	As guaranteed.
Wayne 25% Protein Dog Feed Krums	Bunion Seed Co., Louisville	25.0	4.0	5.0	.....	.....	.....	Same.
Armour & Co., Chicago, Ill.		26.2	6.0	3.5	.....	.....	.....
Armour's Dash Dog Feed	Kroger Grocery & Baking Co., Elizabethtown	25.0	4.0	5.0	.....	.....	.....
		11.6	2.5	0.6	11.2	71.7	2.4	Deficient in net weight.
		12.0	2.5	1.0	.....	.....	.....
The Great Atlantic & Pacific Tea Co., New York, N. Y.		24.0	5.1	2.7	.....	.....	.....
Daily 24% Protein Kennel Feed	A. & P. Tea Co., Horse Cave	24.0	4.0	4.5	.....	.....	.....	As guaranteed.
Ballard & Ballard Co., Louisville, Ky.		30.6	5.5	2.8	.....	.....	.....	As guaranteed.
Insurance 28% Protein Dog Feed	A. & P. Tea Co., Elizabethtown	28.9	6.7	3.1	.....	.....	.....
Same	Kroger Grocery & Baking Co., Lexington	28.0	6.0	5.0	.....	.....	.....	Same.
Calo Food Products, Inc., Oakland, Calif.		9.1	2.8	0.7	12.4	72.3	2.7	No carrots found. Deficient in protein.
Calo Dog Feed	Edgewood Grocery, Louisville	10.0	2.0	1.0	.....	.....	.....
Carnation Co., Milwaukee, Wis.		25.4	4.8	2.9	.....	.....	.....	As guaranteed.
Friskies 22% Protein Dog Feed	Albers Grocery, Latonia	22.0	4.0	4.0	.....	.....	.....
Chappel Bros., Inc., Rockford, Ill.		28.9	4.2	3.1	.....	.....	.....	As guaranteed.
Ken-L-Meal 23% Protein Dog Feed	Albers Grocery, Newport	23.0	2.0	4.0	.....	.....	.....
Ken-L-Ration Dog Feed	A & P Super Market, Lexington	11.5	4.9	1.1	10.2	69.4	2.9	Same.
Hemo-Ration Dog Feed	Sanders Pet Shop, Louisville	10.0	2.5	1.0	.....	.....	.....
		11.0	4.3	1.0	9.7	71.4	2.6	Same.
		10.0	2.5	1.0	.....	.....	.....
Coast Fishing Co., Wilmington, Calif.		14.9	9.2	0.7	7.2	65.0	3.0	Deficient in net weight.
Puss'N Boots Cat Feed	Kroger Grocery & Baking Co., Elizabethtown	12.0	3.0	1.0	.....	.....	.....

TABLE 4.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	Nitrogen-free extract			
Doyle Packing Co., Mokence, Ill.	White Cross Dog and Cat Feed	7.2	1.0	1.0	13.2	76.6	1.0	Deficient in protein, fat and net weight. Excess water. Adulterated and misbranded.
Same	Union Store Co., Buechel	7.3	1.3	1.0	13.7	75.7	1.0	Same.
Square Deal Dog and Cat Feed	Albers Grocery, Newport	10.0	2.0	1.5	16.0	73.7	1.5	Deficient in protein, fat and net weight. Misbranded.
Strongheart Rations Dog Feed	Kroger Grocery & Baking Co., Taylorsville	10.0	2.0	1.5	.....	.....	.....	.....
Strongheart Rations 30% Protein Dog Feed	Albers Grocery, Newport	8.9	1.8	1.0	12.7	74.1	1.5	Deficient in protein and net weight.
The Foster Canning Co., Napoleon, O.	Albers Grocery, Newport	20.7	3.3	2.2	.....	.....	.....	Much deficient in protein and fat. Misbranded.
Tuffy Dog Feed	Albers Grocery, Latonia	30.0	4.5	2.5	.....	.....	.....	.....
Nifty Brand Dog Feed	A & P Super Market, St. Matthews	9.7	1.0	1.3	11.8	73.7	2.5	No soybean oil meal found. Deficient in fat.
French Sardine Co., Terminal Island, Calif.	Stay Well Brand Cat Feed	10.0	2.0	1.5	.....	.....	.....	.....
Gaines Food Co., Sherburne, N. Y.	Snyder's Market, Hawesville	8.6	0.8	1.3	11.8	75.5	2.0	Deficient in protein and fat. Excess water. Adulterated and misbranded.
Gaines 23% Protein Dog Feed	M. R. Remington, Philpot	11.6	3.9	0.5	10.3	72.0	1.7	Deficient in net weight.
Hales & Hunter Co., Chicago, Ill.	Oscar Farmer & Sons, Louisville	12.0	3.0	1.0	.....	.....	.....	As guaranteed.
Lucky 24% Protein Dog Pellets	Jefferson Grocery Co., Louisville	27.9	6.1	3.8	.....	.....	.....	.....
V. E. Herter & Co., Dayton, O.	Vehco 25% Protein Dog Feed	23.0	3.0	4.0	.....	.....	.....	.....
Same	Albers Grocery, Covington	24.4	5.2	3.8	.....	.....	.....	Tomato pomace present tho not guaranteed.
Hill Packing Co., Topeka, Kans.	Parker Grocery Co., Owensboro	24.0	4.0	6.0	.....	.....	.....	As guaranteed.
Sky-Hy Brand Dog Feed	.....	26.3	5.0	3.6	.....	.....	.....	.....
.....	.....	26.0	4.3	3.6	.....	.....	.....	.....
.....	.....	25.0	4.0	5.0	.....	.....	.....	.....
.....	.....	9.9	2.8	1.0	12.5	68.7	5.1	As guaranteed.
.....	.....	10.0	2.0	1.0	.....	.....	.....	.....

TABLE 4.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	Nitrogen-free extract			
Hill's Dog Feed	Haller's Pet Shop, Louisville	14.4 10.5	5.4 2.0	0.3 1.0	5.4	72.2	2.3	Same.
Interstate Foods of America, Bedford, O. ABC Dog Feed	Albers Grocery, Covington	9.9	0.5	1.1	8.1	79.1	1.3	No carrots found. Deficient in fat. Adulterated with excess water. Misbranded.
Same	Geo. W. Maraman & Sons, Shepherdsville	10.4 10.0	1.4 2.0	1.0 1.2	9.4	75.8	2.0	Deficient in fat and net weight. Excess water. Adulterated and misbranded.
ABC 36% Protein Dog Feed	Albers Grocery, Latonia	42.0	3.9	4.3	.....	.....	.....	As guaranteed.
Same	Albers Grocery, Covington	43.5 36.0	4.5 0.8	4.1 5.0	.....	.....	.....	Same.
Kellogg Co., Battle Creek, Mich. Gro-Pup 22½% Protein Dog Feed	Albers Grocery, Newport	24.0	4.2	3.8	.....	.....	.....	As guaranteed.
Same	Chester Porter, Buechel	22.7	3.8	3.7	.....	.....	.....	Same.
Same	Kroger Grocery & Baking Co., Lexington	23.1 22.5	4.0 3.0	3.5 5.0	.....	.....	.....	Same.
The Kroger Grocery & Baking Co., Cincinnati, Ohio. Kroger 23% Protein Kibbled Dog Feed	Kroger Grocery & Baking Co., Taylorsville	23.3 23.0	1.3 3.0	1.1 2.0	.....	.....	.....	Deficient in fat.
Lardan Packing Co., Maspeth, N. Y. Health-O 28½% Protein Dog Feed	Albers Grocery, Newport	26.7 28.5	4.0 5.0	1.6 4.0	.....	.....	.....	No liver meal or charcoal found. Deficient in protein and fat.
Loose-Wiles Biscuit Co., New York, N. Y. Austin's 20% Protein Dog Brek-Fest	Same	24.4 20.0	1.9 2.0	0.9 2.0	.....	.....	.....	As guaranteed.
Loudon Packing Co., Terre Haute, Ind. Doggie Dinner	Kroger Gro. & Bak. Co., Catlettsburg	12.1	3.0	1.4	13.5	67.4	2.6	As guaranteed.
Same	Cyclone Cash Store, Mt. Washington	11.7 10.0	2.9 2.7	1.2 1.5	12.1	69.6	2.5	Same.

TABLE 4.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	Nitrogen-free extract			
Sport's Brand Dog Feed.....	Reese Store, Owensboro	12.0 10.0	3.0 3.0	1.5 1.2	10.7	66.8	6.0	As guaranteed.
Maritime Milling Co., Buffalo, N. Y. Hunt Club 25% Protein Dog Feed.....	Glass & Co., Lexington	27.0	5.5	3.8	.....	.....	.....	As guaranteed.
Same	Louisville Gro. Co., Louisville	25.2 25.0	4.9 3.5	4.0 4.0	.....	.....	.....	Same.
McMillen Feed Mills, Inc., Ft. Wayne, Ind. Master Mix Dogburger 24% Protein Dog Feed	U. B. Sellers, Louisville	27.2 24.0	7.2 4.0	3.5 4.0	.....	.....	.....	As guaranteed.
S. E. Mighton Co., Bedford, O. Dazy Dog Feed	Daugherty Food Store, Hodgenville	9.7	1.2	0.9	9.0	77.2	2.0	Deficient in fat. Adulterated with excess water. Misbranded.
Same	Carl Yeager, Jeffersontown	10.2 10.0	1.0 2.0	1.1 1.2	.....	77.6	1.4	Deficient in fat and net weight. Adulterated with excess water. Misbranded.
Spot Dog and Cat Feed.....	Kroger Grocery & Baking Co., Hodgenville	9.6 10.0	0.5 2.0	1.2 1.2	8.2	79.0	1.5	Same.
Miller Cereal Mills, Omaha, Nebr. Miller's Bar-B-Kubes 25% Protein Dog Feed	B. C. Burford, Jeffersontown	26.9 25.0	6.0 4.5	4.2 5.0	.....	.....	.....	Alfalfa product present tho not guaranteed.
Morgan Packing Co., Austin, Ind. King Karlo Dog Feed.....	E. C. Miller, Buechel	10.4	4.2	0.8	12.5	69.9	2.2	As guaranteed.
Same	Geo. C. Goode, Covington	10.4 10.0	2.9 2.5	1.1 1.2	.....	70.4	2.0	Same.
John Morrell & Co., Ottumwa, Ia. Red Heart Dog Feed—Diet A.....	Albers Grocery, Covington	10.5 10.5	2.9 2.5	0.8 1.0	9.7	73.5	2.6	As guaranteed.
Red Heart Dog Feed—Diet B.....	Lex Drug Co., Elizabethtown	10.9 10.5	3.9 2.5	0.7 1.0	.....	72.4	2.5	Same.
Red Heart Cat Feed.....	Jeffersontown Food Market, Jeffersontown	11.2 10.5	2.7 2.5	0.7 1.0	11.0	71.9	2.5	Same.
National Biscuit Co., New York, N. Y. Pal 18½% Protein Dog Biscuit.....	A & P Super Market, Newport	19.8 18.5	2.1 1.0	1.9 2.5	.....	.....	.....	As guaranteed.

TABLE 4.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	Nitrogen-free extract			
Milk-Bone Brand 21% Protein Puppy Biscuit	Kroger Grocery & Baking Co., Lexington	23.1 21.0	2.9 1.5	1.9 2.5	.....	.....	.....	Same.
Milk-Bone Brand Junior 21% Protein Dog and Puppy Biscuit	Steiden Stores, St. Matthews	23.6 21.0	2.4 1.5	2.1 2.5	.....	.....	.....	Same.
National Oats Co., Cedar Rapids, Ia. Trak 25% Protein Dog Feed	Modern Super Market, Lexington	29.1 25.0	5.0 4.0	2.9 5.0	.....	.....	.....	As guaranteed.
Nestra Packing Co., Berkley, Mich. Hi-Hi Doggie Diet	A & P Tea Co., Elizabethtown	7.3 6.5	1.2 2.0	0.9 1.0	13.3	76.4	0.9	Deficient in protein and fat. Deficient in net weight. Excess water. Not registered and sold in violation of law. As guaranteed.
New Richmond Mills, New Richmond, Wis. New-Rich 23% Protein Dog Meal	Reese Cash Store, Owensboro	25.2 23.0	3.9 2.5	4.5 4.0	.....	.....	.....	.....
Perfection Foods Co., Battle Creek, Mich. Perfection Brand 14% Protein Dog Feed	Fox Bros., Winchester	12.5 14.0	2.6 2.0	2.3 5.0	.....	.....	.....	Deficient in protein.
Pratt Food Co., Hammond, Ind. Pratt's 25% Protein Dog Feed	Bunton Seed Co., Louisville	25.2 25.0	6.0 3.0	2.9 5.0	.....	.....	.....	As guaranteed.
Ralston Purina Co., St. Louis, Mo. Purina 21% Protein Dog Chow Checkers	J. A. Bennett, Taylorsville	23.3 21.0	5.6 4.0	3.7 6.0	.....	.....	.....	As guaranteed.
Ready Foods Co., Chicago, Ill. Hi-Life Dog Feed	Hardy's Cash Market Shepherdsville	10.5	1.2	1.2	13.1	72.0	2.0	Deficient in fat.
Same	Houchen's Market, Elizabethtown	10.5	1.4	1.4	10.2	74.4	2.1	Same.
Rival Packing Co., Chicago, Ill. Rival Dog Feed	C. A. Burdon, Fisherville	9.9	3.2	0.6	10.2	74.7	1.4	Excess water.
Same	A & P Super Market, Newport	10.7	2.6	0.6	10.3	74.7	1.1	Same.
Silver King Canning Co., Kansas City, Kan. Silver King Dog and Cat Feed	Geo. C. Goode, Covington	10.9	2.8	0.6	10.1	72.9	2.7	No soybean oil meal found. Deficient in net weight.
Spratt's Patent, Ltd., Newark, N. J. Spratt's 20% Protein Ovals No. 1	A & P Super Market, Covington	22.3	2.9	1.0	.....	.....	.....	As guaranteed.
Same	Albers Grocery, Latonia	20.0	2.0	1.5	.....	.....	.....	Excess fiber.
Spratt's 20% Protein Dog Biscuits	.....	23.5	3.3	3.5	.....	.....	.....	.....
Same	.....	20.0	2.0	1.5	.....	.....	.....	.....

TABLE 4.—(Continued)

Manufacturer and brand name	Sample taken from—	Protein	Fat	Carbohydrates		Water	Ash	Remarks
				Fiber	Nitrogen-free extract			
Swift & Co., Chicago, Ill.	Kroger Grocery & Baking Co., Carlisle	11.6	3.4	0.6	9.7	71.7	3.0	As guaranteed.
Same	Bauer Bros., St. Matthews	11.7	3.4	0.8	8.2	73.4	2.5	Same.
Swift's Pard 35% Protein Dog Feed	Bob's Market Elizabethtown	10.5	2.5	1.0	.....	.....	.....	.....
The ThoroBread Co., Cincinnati, O.		36.4	11.0	1.4	.....	.....	.....	.....
ThoroBread 17½% Protein Dog and Puppy Feed	Kroger Grocery & Baking Co., St. Matthews	35.0	7.5	3.0	.....	.....	.....	.....
Same	Kroger Grocery & Baking Co., Latonia	21.8	3.0	2.7	.....	.....	.....	As guaranteed.
ThoroBread M. C. 24% Protein Dog Feed.	Kroger Grocery & Baking Co., Latonia	22.2	3.3	3.0	.....	.....	.....	Same.
Variety Foods, Inc., Indianapolis, Ind.	C. L. Jewell & Son, Louisville	17.5	3.2	3.2	.....	.....	.....	Same.
Chap Dog Feed	Snyder's Market, Hawesville	27.1	4.2	3.3	.....	.....	.....	.....
Your Pal Dog Feed	Reese Cash Store, Owensboro	24.0	3.0	5.0	.....	.....	.....	.....
Woof Dog Feed	Frankel Obrecht Drug Co., St. Matthews	10.2	1.9	1.2	10.2	75.1	1.4	No carrots found. Excess water. Deficient in net weight. Misbranded.
Vigor Dog Feed	M. R. Remington, Philpot	10.0	2.0	1.5	.....	.....	.....	Deficient in net weight.
Vigor 30% Protein Dog Feed	Albers Grocery, Latonia	11.7	2.1	1.1	9.5	74.2	1.4	.....
Viking Dog Feed	Leslie's Trading Post, Buechel	10.0	2.0	1.5	.....	.....	.....	.....
Vimpep Foods, Div. Phillips Packing Co., Cambridge, Md.	A. W. Swihart, Lewisport	38.7	4.2	2.7	.....	.....	.....	.....
Smarty Dog Feed	Sanders Pet Shop, Louisville	30.0	2.7	4.0	.....	.....	.....	.....
Wilson & Co., Chicago, Ill.	Albers Grocery, Latonia	12.7	2.7	1.2	10.1	71.7	1.6	Much deficient in net weight. Misbranded.
Ideal Brand Dog Feed	Kidd Bros., Pineville	10.0	2.0	2.0	.....	.....	.....	.....
Same		11.3	4.4	0.7	.....	.....	.....	.....
Ideal Brand 30% Protein Dog Feed		9.0	2.3	1.1	12.7	72.6	2.3	Deficient in protein and net weight. Misbranded.
		10.0	2.0	1.0	.....	.....	.....	.....
		10.3	7.3	0.5	.....	.....	.....	.....
		36.3	8.6	2.9	.....	.....	.....	.....
		30.0	8.0	3.0	.....	.....	.....	.....

SUMMARY OF RESULTS OF INSPECTION AND ANALYSIS, 1942

Inasmuch as the analyses with appropriate comments, in detail, have been reported directly to persons interested, only a summary of the results of inspection and analysis is published in this bulletin.

Acme-Evans Co., Indianapolis, Ind. Inspection samples analyzed, 10.

Acme Sifted Cracked Corn, 1; equaled guaranty.

Acme Hominy Feed, 1; equaled guaranty.

Acme Ground Barley, 1; excess fiber.

Acme Ground Oats, 1; hominy meal present; misbranded.

Producer Brand 17% Protein Starting and Growing Mash, 1; equaled guaranty.

Acme 18% Protein Egg Mash with Feeding Oil, 1; equaled guaranty.

Acme 24% Protein Turkey Starting and Growing Mash, 1; equaled guaranty.

Acme Horse Feed, 1; equaled guaranty.

Producer Horse Feed, 1; equaled guaranty.

Producer 24% Protein Dairy Feed, 1; adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed; misbranded.

The Acme Mills, Hopkinsville, Ky. Inspection sample of Wheat Brown Shorts analyzed, 1; equaled guaranty.

H. T. Adams & Co., Harrodsburg, Ky. Inspection sample of Old Fort 20% Protein Egg Mash analyzed, 1; deficient in protein; ground oyster shell present tho not guaranteed.

Alfocorn Milling Co., E. St. Louis, Ill. Inspection sample of Dollar Mark 20% Protein Pig Grower analyzed, 1; equaled guaranty.

E. T. Allen Co., Atlanta, Ga. Inspection samples of Empire 41% Protein Cottonseed Meal analyzed, 3; equaled guaranty.

Allied Mills, Inc., Chicago, Ill. Inspection samples analyzed, 37.

Wayne 18% Protein Chick Starter, 1; equaled guaranty.

Wayne 17% Protein Starter and Grower, 1; equaled guaranty.

Wayne 17% Protein Growing Mash with Fortified Sardine Oil, 1; deficient in protein.

Wayne 19% Protein Broiler Ration, 1; equaled guaranty.

Economy 18% Protein Laying Mash with Fortified Sardine Oil, 1; equaled guaranty.

Wayne 20% Protein Egg Mash with Fortified Sardine Oil, 2; 1 deficient in protein.

Wayne 20% Protein Breeder Mash, 1; equaled guaranty.

Wayne 20% Protein Breeder Mash with Fortified Sardine Oil, 1; equaled guaranty.

Wayne 25% Protein Turkey Starting Mash, 1; deficient in protein.

Wayne 20% Protein Turkey Growing Mash with Fortified Sardine Oil, 1; no corn gluten meal found.

Wayne 26% Protein Poultry Mash Supplement, 1; equaled guaranty.

- Wayne 26% Protein Poultry Mash Supplement with Fortified Sardine Oil, 1; equaled guaranty.
- Sugarine Horse and Mule Feed, 1; equaled guaranty.
- Wayne 14% Protein Pork Maker, 1; equaled guaranty.
- Wayne 20% Protein Pig and Sow Meal, 1; equaled guaranty.
- Wayne Hog Pasture Brand 35% Protein Supplement, 1; equaled guaranty.
- Wayne 40% Protein Hog Supplement, 3; equaled guaranty.
- Wayne 12% Protein Fitting Ration (For Young and Dry Cows), 1; equaled guaranty.
- Wayne Sweet Stock Feed, 2; equaled guaranty.
- Wayne 27% Protein Sweet Mix Stock Supplement, 1; equaled guaranty.
- Super Soy Brand 37% Protein Feed Supplement, 1; equaled guaranty.
- Wayne 24% Protein Calf Meal, 1; equaled guaranty.
- Topper 16% Protein Dairy Feed, 2; equaled guaranty.
- Sugarine 17% Protein Dairy Feed, 5; 1 meat product present tho not guaranteed; 1 adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded.
- Sugarine 20% Protein Dairy Feed, 1; adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed; misbranded.
- Wayne 20% Protein Dairy Feed, 1; equaled guaranty.
- Wayne 24% Protein Dairy Feed, 2; equaled guaranty.
- Amick Rice Mill, Jonesboro, Ark. Inspection sample of Rice Bran analyzed, 1; deficient in protein and fat and excess fiber; adulterated with rice hulls; misbranded.
- Anderson & Spilman, Danville, Ky. Inspection samples analyzed, 2.
- Snow Flake Feed, 1; equaled guaranty.
- Stock Feed, 1; equaled guaranty.
- Arcady Farms Milling Co., Chicago, Ill. Inspection samples analyzed, 10.
- Sunkist Scratch Grains, 1; no kaffir corn, milo maize or barley found; misbranded.
- Sunkist Complete Brand 18% Protein Chick Starter, 1; excess fiber.
- Sunkist 17% Protein Starter and Grower All-Mash, 1; excess fiber.
- Wonderfat Brand 15% Protein Station Feed, 1; deficient in fat.
- Sunkist 20% Protein Egg Mash, 1; excess fiber; screenings present tho not guaranteed.
- Sunkist 34% Protein Poultry Supplement, 1; deficient in fat; no meat scraps found; fish meal present tho not guaranteed.
- Sunkist 40% Protein Hog Supplement, 2; equaled guaranty.
- Atlantic Besbet 16% Protein Dairy Feed, 2; 1 no soybean oil meal found, screenings refuse substituted for oat hull feed, adulterated with approximately 153,600 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded.

Archer-Daniels-Midland Co., Minneapolis, Minn. Inspection samples analyzed, 3.

Archer Brand 32% Protein Linseed Meal, 1; equaled guaranty.

34% Protein Linseed Meal, 2; 1 deficient in fat.

Armour & Co., Chicago, Ill. Inspection sample of Armour's 60% Protein Digester Tankage analyzed, 1; equaled guaranty.

Ashcraft-Wilkinson Co., Atlanta, Ga. Inspection sample of Helmet Brand 41% Protein Cottonseed Meal analyzed, 1; deficient in protein and excess fiber.

The Great Atlantic & Pacific Tea Co., New York, N. Y. Inspection sample of Milky Way 24% Protein Dairy Feed analyzed, 1; equaled guaranty.

Aubrey & Co., Louisville, Ky. Inspection samples analyzed, 44.

Ground Wheat, 2; equaled guaranty.

Red A Wheat Red Dog, 1; excess fiber.

Soft Wheat Mixed Feed and Screenings, 1; equaled guaranty.

Hominy Meal, 4; equaled guaranty.

Aubrey's Ground Barley, 1; excess fiber.

Red A Poultry Scratch Feed, 1; equaled guaranty.

Red Bird 17% Protein Baby Chick Starting Mash, 1; equaled guaranty.

Red A 17% Protein All-Mash Starter-Grower-Broiler Ration, 2; equaled guaranty.

Red Bird 18% Protein Growing Mash, 1; equaled guaranty.

Rainbow 14% Protein Poultry Fattening Mash, 1; equaled guaranty.

Red A 20% Protein Laying Mash, 3; equaled guaranty.

Red A 25% Protein Turkey Starting Mash, 1; equaled guaranty.

Monarch Horse Feed, 4; equaled guaranty.

Supreme Brand 95% Grain Horse Feed, 2; equaled guaranty.

Red A Horse Feed, 1; equaled guaranty.

Red A 16% Protein Sheep Feed, 1; equaled guaranty.

Rainbow 18% Protein Hog and Pig Feed, 1; deficient in fat.

Red A 40% Protein Hog Supplement, 2; equaled guaranty.

Red A 16% Protein Dairy Feed, 3; 1 deficient in protein.

Red Star 16% Protein Dairy Feed, 1; deficient in protein and excess fiber; corn cob present tho not guaranteed; excess oat hull feed present; adulterated and misbranded.

Monarch 16½% Protein Dairy Feed, 3; 2 deficient in protein; 1 no salt found.

Supreme Brand 24% Protein Dairy Feed, 2; equaled guaranty.

Jewell's 24% Protein Dairy Feed, 2; 1 excess fiber, brewers dried grains present tho not guaranteed.

Ful-O-Cream Brand 24% Protein Dairy Feed, 2; 1 deficient in protein, no corn gluten feed found.

Rainbow 34% Protein Dairy Supplement, 1; equaled guaranty.

The Auburn Mills, Auburn, Ky. Inspection samples analyzed, 2.

Wheat Gray Shorts, 1; deficient in protein.

Mixed Feed, 1; equaled guaranty.

Ballard & Ballard Co., Louisville, Ky. Inspection samples analyzed, 35.

Ballard's Kentucky Farm Feed and Screenings, 1; equaled guaranty.

Insurance Scratch Grains, 1; equaled guaranty.

Chick Insurance 18% Protein Starting Mash, 1; equaled guaranty.

Ballard's 18% Protein Starting Mash, 1; equaled guaranty.

Ballard's 18% Protein Growing Mash, 2; equaled guaranty.

Insurance 20% Protein Growing Mash, 1; equaled guaranty.

Insurance 18% Protein Broiler Ration, 1; no charcoal found.

Ballard's 20% Protein Laying Mash, 3; equaled guaranty.

Insurance 20% Protein Egg and Breeder Mash, 2; equaled guaranty.

Insurance 26% Protein Turkey Starter, 1; equaled guaranty.

Insurance 20% Protein Turkey Growing Mash, 2; 1 deficient in protein.

Ballard's Heavy Grain Horse Feed, 2; equaled guaranty.

Ballard's Big Value Brand Horse Feed, 1; equaled guaranty.

Insurance 16% Protein Pig and Hog Ration, 1; equaled guaranty.

Insurance 40% Protein Pig and Hog Feed Supplement, 3; equaled guaranty.

Insurance 13½% Protein Sheep Feed, 2; equaled guaranty.

Ballard's 16% Protein Sheep Feed, 1; equaled guaranty.

Insurance 13½% Protein Rabbit Pellets, 1; equaled guaranty.

Insurance Bulky Feed, 1; equaled guaranty.

Insurance 12½% Protein Dry and Freshening Cow Feed, 1; equaled guaranty.

Ballard's 16% Protein Sweet Dairy Feed, 3; 1 much excess fiber, misbranded; 1 brewers dried grains present tho not guaranteed.

Milk Insurance 20% Protein Sweet Dairy Feed, 1; linseed oil meal present tho not guaranteed.

Ballard's 24% Protein Sweet Dairy Feed, 1; equaled guaranty.

Milk Insurance 34% Protein Sweet Dairy Feed Supplement, 1; equaled guaranty.

Bardstown Mills, Bardstown, Ky. Inspection samples analyzed, 2.

Cracked Wheat, 1; equaled guaranty.

Royal Mixed Feed, 1; no corn bran found.

Baughman Milling Co., Stanford, Ky. Inspection samples of Banner Stock

Feed analyzed, 2; excess fiber; 1 adulterated with approximately

161,600 unground weed seeds to 100 pounds of feed, misbranded.

Beaty Bros., Science Hill, Ky. Inspection sample of Quality Brand 16%

Protein Dairy Feed analyzed, 1; excess fiber; distillers dried grains

present tho not guaranteed.

Beaver Dam Milling Co., Beaver Dam, Ky. Inspection samples analyzed, 4.

Eureka Wheat Gray Shorts, 1; equaled guaranty.

Eureka Scratch Feed, 1; equaled guaranty.

Snow Drift 19% Protein Laying Mash, 1; no dried buttermilk found.

Beaver Brand 16% Protein Dairy Feed, 1; much deficient in protein; no cottonseed meal found; misbranded.

Bi-County Farm Bureau Co-operative Association, Devon, Ky. Inspection samples analyzed, 3.

Co-op Mermash Brand 17% Protein Starting Mash, 1; equaled guaranty.

Co-op Special Brand 20% Protein Laying Mash, 1; equaled guaranty.

Co-op Milkmaid Brand 20% Protein Dairy Feed, 1; equaled guaranty.

The Big Four Mills, Ltd., Covington, Ky. Inspection samples analyzed, 25.

O. K. Brand 18% Protein Starting and Growing Mash, 2; equaled guaranty.

Big Four 18% Protein Growing Mash, 1; equaled guaranty.

Big Four 19% Protein Broiler Mash, 1; distillers dried grains present tho not guaranteed.

Big Four 20% Protein Laying Mash, 1; equaled guaranty.

Hi-Lo 20% Protein Egg Mash, 3; distillers dried grains present tho not guaranteed; 1 molasses present tho not guaranteed.

O. K. Brand 20% Protein Egg Mash, 3; 1 excess fiber; 2 no ground barley found; 1 ground weed seeds present; 1 ground wheat substituted for bran and shorts.

Big Four 23% Protein Turkey Starter, 1; much deficient in protein; misbranded.

Big Four 24% Protein Turkey Grower, 3; deficient in protein; 1 meat scraps present tho not guaranteed; 1 corn gluten meal present tho not guaranteed, ground wheat substituted for bran and shorts; 1 ground weed seeds present.

Big Four 19% Protein Pig and Hog Feed, 1; no bone meal found.

O. K. Brand 16% Protein Dairy Feed, 3; 2 cottonseed meal present tho not guaranteed; 1 ground corn present tho not guaranteed, adulterated with approximately 180,800 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with 89,600 unground weed seeds to 100 pounds of feed, misbranded.

Hi-Lo 24% Protein Dairy Feed, 4; 2 screenings present tho not guaranteed; 1 no corn gluten feed found, adulterated with approximately 116,800 unground weed seeds to 100 pounds of feed, misbranded; 1 no brewers dried grains found, ground corn present tho not guaranteed, adulterated with approximately 72,000 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded.

Big Four 24% Protein Dairy Feed, 1; deficient in fat.

Big Four 38% Protein Hog Supplement, 1; no peanut meal found.

Bisbee Linseed Co., Philadelphia, Pa. Inspection sample of Bisbee 32% Protein Linseed Oil Meal analyzed, 1; equaled guaranty.

Blanton Milling Co. (Acme-Evans Co.), Indianapolis, Ind. Inspection samples analyzed, 5.

Perfect Brand 24% Protein Turkey Starting and Growing Mash, 2; 1 deficient in protein; 1 much deficient in protein, no fish meal found, misbranded.

- Perfect Brand 18% Protein Pig Meal, 1; no ground barley found; ground oats present tho not guaranteed.
Perfect Brand 40% Protein Hog Supplement, 1; equaled guaranty.
Perfect Brand 32% Protein Dairy Supplement, 1; equaled guaranty.
- Blish Milling Co., Seymour, Ind. Inspection samples of Bull's Eye Wheat Brown Middlings and Screenings analyzed, 2; equaled guaranty.
- Blue Grass Feed Co., Lexington, Ky. Inspection samples analyzed, 2.
Eggmaker 20% Protein Laying Mash, 1; ground oats present tho not guaranteed.
Special Horse Feed, 1; no crimped barley found.
- Boonville Mills, Boonville, Ind. Inspection samples of Liberty 16% Protein Dairy Feed analyzed, 3; 1 deficient in protein.
- Broadway Roller Mills, Bowling Green, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Browder Milling Co., Fulton, Ky. Inspection samples analyzed, 4.
Beats All Horse and Mule Feed, 1; equaled guaranty.
Hog's Delight 15% Protein Sweet Feed, 1; equaled guaranty.
Big Sixteen (16% Protein) Dairy Feed, 2; equaled guaranty.
- Bryant's Mill, Caneyville, Ky. Inspection sample of Kentucky Farm 17% Protein Starter and Grower analyzed, 1; equaled guaranty.
- The Buckeye Cotton Oil Co., Cincinnati, O. Inspection samples analyzed, 4.
Buckeye 41% Protein Cottonseed Meal, 2; equaled guaranty.
Buckeye 41% Protein Soybean Oil Meal, 2; equaled guaranty.
- The Buhner Fertilizer Co., Seymour, Ind. Inspection samples analyzed, 3.
Buhner's Happy Farmer 16½% Protein All-Mash Starter and Grower, 1; equaled guaranty.
Buhner's Happy Farmer 18% Protein Laying Mash, 1; excess fiber.
Buhner's 40% Protein Hog Supplement, 1; equaled guaranty.
- Bundy Bros., Vallonia, Ind. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Bundy Brothers Mill Co., Medora, Ind. Inspection samples analyzed, 9.
Whole Ground Barley, 1; equaled guaranty.
Perfection Brand 17% Protein Starting and Growing Mash, 2; no charcoal found.
Monarch 18% Protein Laying Mash, 3; equaled guaranty.
Economy Brand Horse and Mule Feed, 1; equaled guaranty.
Combination Stock Feed, 1; equaled guaranty.
Bundy's 16% Protein Sweet Dairy Feed, 1; adulterated with approximately 44,600 unground weed seeds to 100 pounds of feed; misbranded.
- Burnside Milling Co., Burnside, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

- Cadick Milling Co., Grandview, Ind. Inspection samples analyzed, 5.
Wheat Gray Shorts, 1; equaled guaranty.
Wheat Mixed Feed, 2; equaled guaranty.
Cadick's Gold Dust 18% Protein Laying Mash, 2; 1 no dried milk by-products or oat meal found, fish meal and ground oats present tho not guaranteed.
- Cairo Meal & Cake Co., Cairo, Ill. Inspection sample of Miss Cairo Brand 41% Protein Cottonseed Meal analyzed, 1; excess fiber.
- Calhoun Sweet Feed Co., Calhoun, Ky. Inspection sample of Golden Rule 18% Protein Laying Mash analyzed, 1; equaled guaranty.
- Campbellsville Milling Co., Campbellsville, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Cape County Milling Co., Jackson, Mo. Inspection sample of Capco Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Carey & Kays, Willisburg, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and fat.
- Carlisle Mill & Supply Co., Carlisle, Ky. Inspection sample of Old Kentucky 20% Protein Egg Mash analyzed, 1; equaled guaranty.
- Central Kentucky Milk Producers Association, Lexington, Ky. Inspection samples analyzed, 5.
Co-op 19% Protein Starting and Growing Mash, 2; equaled guaranty.
Co-op 20% Protein Laying Mash, 1; equaled guaranty.
Co-op 24% Protein Dairy Feed, 2; equaled guaranty.
- Central Mills, Inc., Dunbridge, O. Inspection sample of Alfalfa Meal analyzed, 1; deficient in protein and excess fiber; adulterated with alfalfa stems; misbranded.
- Central Soya Co., Ft. Wayne, Ind. Inspection sample of Central 41% Protein Soybean Oil Meal analyzed, 1; equaled guaranty.
- Chemical Products Corporation, Cincinnati, O. Inspection sample of Abattoir Brand 60% Protein Digester Tankage analyzed, 1; excess fiber.
- The Cincinnati Grain & Hay Co., Cincinnati, O. Inspection samples analyzed, 4.
No Better Brand 16% Protein Sweet Dairy Feed, 1; no corn gluten feed or brewers dried grains found; distillers dried grains present tho not guaranteed.
No Better Brand 20% Protein Sweet Dairy Feed, 1; no wheat bran found; distillers dried grains present tho not guaranteed.
No Better Brand 24% Protein Sweet Dairy Ration, 2; 1 deficient in protein, no corn gluten feed or brewers dried grains found, ground oat product and distillers dried grains present tho not guaranteed, misbranded.

- Citizens Milling Co., Somerset, Ky. Inspection sample of Cumberland Special Mixed Feed analyzed, 1; much deficient in protein; no soybean oil meal found; misbranded.
- City Hide & Tallow Co., Louisville, Ky. Inspection sample of Falls City 60% Protein Digester Tankage analyzed, 1; much deficient in protein; misbranded.
- Climax Roller Mills, Shelbyville, Ky. Inspection sample of Wheat Brown Shorts analyzed, 1; deficient in protein and fat.
- Clinton Hatchery, Clinton, Ky. Inspection sample of New Deal 19% Protein Egg Mash analyzed, 1; equaled guaranty.
- Clell Coleman & Sons, Burgin, Ky. Inspection samples analyzed, 3.
Coleman's Wheat White Middlings and Shorts, 1; equaled guaranty.
Coleman's Favorite Feed, 1; equaled guaranty.
Big Blue Stock Feed, 1; equaled guaranty.
- Community Flour Mills, Greenup, Ky. Inspection samples analyzed, 4.
Two-Way 16% Protein Dairy Feed, 1; equaled guaranty.
Farmer's Friend 16% Protein Dairy Feed, 2; 1 no brewers dried grains, oat hull feed or distillers dried grains found.
24% Protein Dairy Feed, 1; equaled guaranty.
- Community Milling Co., Irvington, Ky. Inspection sample of Soft Wheat Mixed Feed analyzed, 1; ground wheat screenings present tho not guaranteed.
- Corn Products Refining Co., New York, N. Y. Inspection sample of Buffalo Corn Gluten Feed analyzed, 1; equaled guaranty.
- Geo. Couch & Sons, New Harmony, Ind. Inspection sample of Harmony Brand Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- 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; deficient in fat.
- Dearborn Mills, Aurora, Ind. Inspection samples analyzed, 12.
Dearborn Wheat Mixed Feed and Screenings, 1; equaled guaranty.
Dearborn 18% Protein Broiler Mash, 1; equaled guaranty.
Success Special Brand 19% Protein Layer Mash, 1; equaled guaranty.
Success Brand 20% Protein Layer Mash, 1; deficient in protein.
Dearborn 20% Protein Layer Mash, 2; equaled guaranty.
Dearborn 36% Protein Pig and Hog Supplement, 1; equaled guaranty.
Success Brand 16% Protein Dairy Feed, 2; 1 excess fiber, wheat bran present tho not guaranteed.
Dearborn 17% Protein Dairy Feed, 1; equaled guaranty.
Dearborn 24% Protein Dairy Feed, 1; equaled guaranty.
Dearborn 32% Protein Dairy Feed Supplement, 1; only a trace of alfalfa meal present.

Decatur Milling Co., Inc., Decatur, Ill. Inspection sample of Homco Hominy Feed analyzed, 1; equaled guaranty.

The Dewey Brothers Co., Blanchester, O. Inspection samples analyzed, 3.
Dew-Co 16% Protein Dairy Feed, 2; 1 corn gluten feed and ground soybeans present tho not guaranteed; 1 no alfalfa meal found, excess screenings present, adulterated with approximately 17,600 unground weed seeds to 100 pounds of feed, misbranded.
Dew-Co 24% Protein Dairy Ration, 1; equaled guaranty.

W. C. Dicken, Mentor, Ky. Inspection samples analyzed, 4.
Sunny Grain Brand 17% Protein Chick Starter, 1; equaled guaranty.
Sunny Grain Brand 18% Protein Chick Grower, 1; equaled guaranty.
Sunny Grain Brand 20% Protein Laying Mash, 1; equaled guaranty.
Sunny Grain Brand 17% Protein Hog Feed, 1; distillers dried grains present tho not guaranteed.

Dixie Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 8.
Dixie 18% Protein Growing Mash, 1; equaled guaranty.
Dixie 18% Protein Broiler Mash, 1; equaled guaranty.
Dixie 16% Protein All-Purpose Poultry Mash, 1; equaled guaranty.
Dixie 20% Protein Laying Mash, 1; equaled guaranty.
Dixie 15% Protein Hog Feed, 1; equaled guaranty.
Dixie 16% Protein Dairy Feed, 2; equaled guaranty.
Dixie 24% Protein Dairy Feed, 1; equaled guaranty.

Dossey-Clay-Howard Milling Co., Inc., Fountain Run, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; equaled guaranty.

Duncan & Theiss, LaGrange, Ky. Inspection samples analyzed, 3.
Dairy Maid 16% Protein Dairy Feed, 1; equaled guaranty.
Dairy Maid 24% Protein Dairy Feed, 1; equaled guaranty.
Dairy Maid 32% Protein Dairy Feed Supplement, 1; equaled guaranty.

Dutschke Milling Co., Cannelton, Ind. Inspection sample of Big Hen 20% Protein Egg Mash analyzed, 1; deficient in protein.

Dyersburg Oil Mill Co., Dyersburg, Tenn. Inspection sample of Dyersburg Oil Mill 41% Protein Cottonseed Meal analyzed, 1; excess fiber.

The Early & Daniel Co., Cincinnati, O. Inspection samples analyzed, 37.
Ground Wheat, 2; equaled guaranty.
Tuxedo Wheat Mixed Feed and Screenings, 1; equaled guaranty.
Tuxedo 60% Protein Digester Tankage, 1; much deficient in protein and excess fiber; misbranded.
Tuxedo 17½% Protein Starting and Growing All-Mash, 2; equaled guaranty.
Tuxedo 17½% Protein Starter, Grower and Developer Mash, 1; equaled guaranty.
Tuxedo 18½% Protein Broiler Mash, 2; equaled guaranty.
Tuxedo 14% Protein Poultry Fattener, 2; 1 excess fiber.
Eadan 20% Protein Egg Mash, 1; equaled guaranty.

Tuxedo Special 20% Protein Egg Mash, 2; equaled guaranty.
Tuxedo 30% Protein Poultry Mash Supplement, 1; equaled guaranty.
Eadan Horse and Mule Feed, 1; excess oat hull feed and screenings present; misbranded.
Tuxedo 14½% Protein Pig Meal, 1; equaled guaranty.
Eadan 16% Protein Pig and Hog Meal, 1; ground wheat present tho not guaranteed.
Tuxedo 19% Protein Hog Ration, 1; equaled guaranty.
Tuxedo Big Forty 40% Protein Hog Supplement, 2; equaled guaranty.
Eadan 16% Protein Dairy Feed, 3; equaled guaranty.
Economy Special 16% Protein Dairy Feed, 2; 1 adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded.
Edco 16% Protein Dairy Feed, 1; adulterated with approximately 217,600 unground weed seeds to 100 pounds of feed, misbranded.
Tuxedo Special 16% Protein Dairy Feed, 2; equaled guaranty.
Tuxedo 20% Protein Dairy Feed, 1; equaled guaranty.
Tuxedo Special 20% Protein Dairy Feed, 1; equaled guaranty.
Tuxedo 24% Protein Dairy Feed, 1; no distillers dried grains found.
Tuxedo Special 24% Protein Dairy Feed, 1; equaled guaranty.
Our Pride Special 24% Protein Dairy Feed, 2; equaled guaranty.
Tuxedo 33% Protein Dairy Supplement, 2; equaled guaranty.

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, 13.

Eshelman Red Rose 16% Protein All-Mash Starter and Grower, 1; excess fiber.

Eshelman Red Rose 17% Protein Growing Mash (with Feeding Oil), 1; equaled guaranty.

Eshelman Red Rose 14% Protein Fattening Mash, 1; equaled guaranty.

Eshelman Red Rose 20% Protein Laying Mash, 1; equaled guaranty.

Eshelman Maintenance 20% Protein Laying Mash, 1; equaled guaranty.

Eshelman Red Rose 18% Protein Turkey Grower (with Feeding Oil), 1; equaled guaranty.

Liberty Horse Feed, 1; ground oats present tho not guaranteed.

Eshelman Red Rose 18% Protein Pig and Hog Meal, 1; deficient in protein.

Eshelman Pennsy 16% Protein Dairy Feed, 2; 1 adulterated with approximately 35,200 unground weed seeds to 100 pounds of feed, misbranded; 1 no corn bran found, adulterated with approximately 89,600 unground weed seeds to 100 pounds of feed, misbranded.

- Eshelman Challenge 24% Protein Dairy Feed, 2; excess fiber.
Eshelman Red Rose 24% Protein Dairy Feed, 1; equaled guaranty.
- Evans Milling Co., Indianapolis, Ind. Inspection samples analyzed, 3.
Emco Hominy Feed, 2; equaled guaranty.
Evans 41% Protein Soybean Cake Meal, 1; equaled guaranty.
- Excelsior Milling Co., Minneapolis, Minn. Inspection sample of Camel
Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Exchange Milling Co., Sturgis, Ky. Inspection samples analyzed, 3.
Mixed Feed, 1; deficient in protein; excess corn product present.
Smith's Special 16% Protein Dairy Feed, 2; 1 deficient in protein;
1 much deficient in protein, no soybean oil meal found, mis-
branded.
- Oscar Farmer & Son, Louisville, Ky. Inspection sample of Our Pride
16% Protein Dairy Feed analyzed, 1; distillers dried grains present
tho not guaranteed.
- Farmers Mill Co., Columbia, Ky. Inspection sample of Shipstuff ana-
lyzed, 1; equaled guaranty.
- Farmers Milling Co., Somerset, Ky. Inspection samples of Farmers Stock
Feed analyzed, 2; much deficient in protein; misbranded.
- Farmers & Merchants Milling Co., Brooksville, Ky. Inspection sample
of Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Farmers Supply Co., Danville, Ky. Inspection sample of Farmo 16%
Protein Hog and Pig Feed analyzed, 1; ground oats present tho not
guaranteed; large amount of cheat present.
- Farmers Union Mill, Versailles, Ky. Inspection sample of Mixed Feed
analyzed, 1; equaled guaranty.
- Ferncliff Feed & Grain Co., Louisville, Ky. Inspection samples ana-
lyzed, 9.
Cracker Jack Ground Wheat, 1; equaled guaranty.
Cracker Jack Corn Feed Meal, 1; equaled guaranty.
Cracker Jack Hominy Feed, 1; equaled guaranty.
P. D. Q. 17% Protein Starting and Growing Mash, 1; equaled
guaranty.
P. D. Q. 18% Protein Egg Mash, 1; equaled guaranty.
Nonesuch Stock Feed, 1; equaled guaranty.
P. D. Q. Special 16% Protein Dairy Feed, 1; excess fiber; no alfalfa
meal found.
Ferncliff 24% Protein Dairy Ration, 1; equaled guaranty.
P. D. Q. Special 24% Protein Dairy Feed, 1; no cottonseed meal
found.
- Henry Fischer Packing Co., Louisville, Ky. Inspection sample of Mell-
wood Brand 60% Protein Digester Tankage analyzed, 1; excess fiber.

- The Fleischmann Distilling Corporation, Owensboro, Ky. Inspection sample of 28% Protein Distillers Corn Dried Grains analyzed, 1; equaled guaranty.
- Fonthill Milling Co., Fonthill, Ky. Inspection sample of Fonthill's Best Brand Wheat Mixed Feed analyzed, 1; deficient in protein.
- Henry Fruechtenicht, Louisville, Ky. Inspection samples analyzed, 8.
Producer Brand 17% Protein Starting and Growing Mash, 1; equaled guaranty.
Producer Brand 20% Protein Laying Mash, 1; no dried buttermilk found.
Blue Grass Horse and Mule Feed, 1; deficient in protein.
Producer Brand 16% Protein Dairy Feed, 3; 1 excess fiber, no corn gluten feed found.
Arrow 20% Protein Dairy Feed, 1; excess fiber, no cottonseed meal found, alfalfa meal present tho not guaranteed.
Blue Grass 24% Protein Dairy Feed, 1; equaled guaranty.
- Garden Street Mill & Elevator Co. (Aubrey & Co.), Louisville, Ky. Inspection samples analyzed, 5.
Garden 16% Protein Dairy Feed, 4; equaled guaranty.
Garden 16% Protein Sheep Feed, 1; equaled guaranty.
- Garrard Mills, Lancaster, Ky. Inspection sample of Glen Lily Mixed Feed analyzed, 1; equaled guaranty.
- General Mills, Minneapolis, Minn. Inspection sample of Ben Hur Wheat Brown Shorts and Screenings analyzed, 1; equaled guaranty.
- Germantown Milling Co., Germantown, Ky. Inspection sample of Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Glasgow Milling Co., Glasgow, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Edward F. Goeke Sons, Evansville, Ind. Inspection samples analyzed, 6.
A P 16% Protein All-Purpose Poultry Mash, 1; no fish meal found.
Goeke's 40% Protein Hog Supplement, 2; equaled guaranty.
New A-1 Brand 16% Protein Dairy Feed, 2; deficient in protein; 1 no corn gluten feed found, excess screenings present, adulterated with approximately 136,000 unground weed seeds to 100 pounds of feed, misbranded; 1 much excess fiber, adulterated with approximately 544,000 unground weed seeds to 100 pounds of feed, misbranded.
Lot-of-Milk Brand 19% Protein Dairy Feed, 1; much excess fiber; alfalfa meal present tho not guaranteed; excess flax plant by-product present; misbranded.
- Goldcamp Mill Co., Ironton, O. Inspection samples analyzed, 12.
G. M. C. Feed, 1; equaled guaranty.
Farm Feed, 1; deficient in protein.

Gold-Co Egg-O Brand 18% Protein Laying Mash, 3; 1 deficient in protein, no skimmed milk or fish meal found, ground barley present tho not guaranteed, misbranded.

17% Protein Pig and Hog Grower, 1; no fish meal found.

Gold-Co 16% Protein Dairy Feed, 3; 1 excess fiber, adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with approximately 225,600 unground weed seeds to 100 pounds of feed, misbranded.

Mil-Co 24% Protein Dairy Feed, 2; 1 adulterated with approximately 307,200 unground weed seeds to 100 pounds of feed, misbranded.

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

Green Bros., Falls of Rough, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.

Green River Hatchery, Owensboro, Ky. Inspection sample of Top Notch 18% Protein Starting Mash analyzed, 1; no ground oats found.

Green River Milling Co., S. Carrollton, Ky. Inspection samples analyzed, 7.

Green River 60% Grain Horse and Mule Feed, 1; equaled guaranty.

Big Sixteen 16% Protein Dairy Feed, 2; lespedeza seed screenings present tho not guaranteed; 1 no distillers dried grains found, adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded; 1 ground corn present tho not guaranteed, adulterated with approximately 81,600 unground weed seeds to 100 pounds of feed, misbranded.

Green River 16% Protein Dairy Feed, 4; 1 deficient in fat; 1 no cottonseed meal found; 2 lespedeza seed screenings present tho not guaranteed; 1 no corn gluten feed found, distillers dried grains present tho not guaranteed, adulterated with approximately 116,800 unground weed seeds to 100 pounds of feed, misbranded; 1 no salt found, adulterated with approximately 188,800 unground weed seeds to 100 pounds of feed, misbranded.

Gwinn Bros. & Co., Huntington, W. Va. Inspection samples analyzed, 9. Ground Wheat, 1; equaled guaranty.

Gwinn's Wheat Brown Middlings and Screenings, 1; equaled guaranty.

Merit Brand 18% Protein Laying Mash, 1; corn gluten feed substituted for corn gluten meal; screenings present tho not guaranteed.

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

Merit Brand 16% Protein Dairy Feed, 2; 1 deficient in fat.

Pioneer 24% Protein Dairy Feed, 1; equaled guaranty.

Merit Brand 24% Protein Dairy Feed, 2; deficient in protein.

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, 13.
Morning Glory 16% Protein Chick Starter, 1; no charcoal found; fish meal present tho not guaranteed.
Red Comb 17% Protein Growing Mash, 2; equaled guaranty.
Red Comb 18% Protein Broiler Mash, 1; equaled guaranty.
Red Comb 13% Protein Crate Fattener, 1; equaled guaranty.
Red Comb 18% Protein Egg Mash, 2; equaled guaranty.
Cackle 20% Protein Egg Mash, 1; no charcoal found.
Morning Glory 20% Protein Egg Mash, 1; no dried milk by-product or feeding oil found.
Red Comb 21% Protein Turkey Grower, 1; equaled guaranty.
Pioneer 20% Protein Pig and Hog Feed, 1; no dried buttermilk found; cottonseed meal present tho not guaranteed.
Gold Flake 16½% Protein Dairy Feed, 2; 1 no corn germ meal found.
- Hancock & Franklin Mills (Henry Fruechtenicht), Louisville, Ky. Inspection sample of Shield Brand 24% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Harralson's Feed & Seed Store, Owensboro, Ky. Inspection sample of Up-to-Date 17% Protein Starting, Growing and Laying Mash analyzed, 1; no dried buttermilk found; corn gluten feed present tho not guaranteed.
- R. L. Harrison & Son, Bagdad, Ky. Inspection samples analyzed, 4.
Corn By-product Feed, 1; equaled guaranty.
Bulky 16½% Protein Dairy Feed, 1; equaled guaranty.
Harrison's Nat-Ur-Way Brand 16% Protein Dairy Feed, 1; no alfalfa meal found; lespedeza meal present tho not guaranteed.
Harrison's Nat-Ur-Way Brand 24% Protein Dairy Feed, 1; equaled guaranty.
- The P. H. Harsha Milling Co., Portsmouth, O. Inspection samples analyzed, 6.
Harsha's Wheat Gray Middlings and Screenings, 2; 1 much deficient in protein and fat, misbranded.
Harsha's 17% Protein Starter and Grower Mash, 1; much deficient in protein; misbranded.
Harsha's 18% Protein Laying Mash, 1; no dried buttermilk found.
Superior Brand Horse and Mule Feed, 1; equaled guaranty.
Harsha's Special Brand 16% Protein Dairy Feed, 1; ingredients not as guaranteed; misbranded.
- Edwin C. Hawkins, Paducah, Ky. Inspection sample of Topsy 15% Protein Hog Feed analyzed, 1; equaled guaranty.
- Haydon Mill & Grain Co., Springfield, Ky. Inspection samples analyzed, 3.
Grow Quick 18% Protein Starting Mash, 1; deficient in protein.
Grow Quick 17% Protein Growing Mash, 1; equaled guaranty.
Economy Brand 19% Protein Laying Mash, 1; equaled guaranty.

H. C. Milling Co., Morristown, Tenn. Inspection sample of Ham-Co Feed analyzed, 1; excess fiber; oat hull feed and distillers dried grains present tho not guaranteed; misbranded.

Dr. Heinz Co., Cincinnati, O. Inspection sample of Heinz Nu-Way Brand 34% Protein Pig and Hog Supplement analyzed, 1; equaled guaranty.

Henderson Elevator Co., Inc., Henderson, Ky. Inspection samples analyzed, 8.

Bullitt's 17% Protein All-Purpose Poultry Mash, 1; equaled guaranty.

Bullitt's Ideal Brand 18% Protein Growing Mash, 1; corn gluten feed present tho not guaranteed.

Bullitt's 20% Protein Egg Mash, 1; deficient in protein; corn gluten feed substituted for corn gluten meal; ground weed seeds present.

Bullitt's Best Brand Horse and Mule Feed, 1; equaled guaranty.

Bullitt's Jersey Cream Brand 16% Protein Dairy Feed, 4; 1 deficient in protein; 1 much deficient in protein, misbranded; 2 deficient in fat; 1 adulterated with approximately 180,800 unground weed seeds to 100 pounds of feed, misbranded.

V. E. Herter & Co., Dayton, O. Inspection samples analyzed, 8.

Eagle 16% Protein Starting and Growing All-Mash, 1; equaled guaranty.

Economy 17% Protein Growing Mash, 1; equaled guaranty.

Yankee 20% Protein Laying Mash, 1; equaled guaranty.

Yankee Horse Feed, 1; malt product present tho not guaranteed; adulterated with approximately 316,800 unground weed seeds to 100 pounds of feed, misbranded.

Economy Brand 16% Protein Dairy Feed, 3; 1 no ground oats found, linseed oil meal present tho not guaranteed; 1 adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded; 1 no ground barley found, adulterated with approximately 1,177,600 unground weed seeds to 100 pounds of feed, misbranded.

Eagle 24% Protein Dairy Feed, 1; screenings present tho not guaranteed.

Dr. Hess & Clark, Inc., Ashland, O. Inspection sample of Dr. Hess Hog Special analyzed, 1; equaled guaranty.

Hodgenville Roller Mills, Hodgenville, Ky. Inspection sample of Lincoln Wheat Mixed Feed analyzed, 1; equaled guaranty.

Home Milling Co., Greenville, Ky. Inspection sample of Happy Home Mixed Feed analyzed, 1; equaled guaranty.

Hopkinsville Milling Co., Hopkinsville, Ky. Inspection sample of Sunflower Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.

- Horse Cave Mills, Horse Cave, Ky. Inspection sample of Dandy Mixed Feed analyzed, 1; equaled guaranty.
- Igleheart Bros., Inc., Evansville, Ind. Inspection samples analyzed, 3. Winter Wheat Gray Shorts and Screenings, 2; equaled guaranty. Champion Stock Feed, 1; equaled guaranty.
- Illinois Cereal Mills, Paris, Ill. Inspection sample of Hominy Feed analyzed, 1; deficient in fat.
- Independent Oil Mill, Inc., Jackson, Tenn. Inspection samples of Independent Brand 41% Protein Cottonseed Meal analyzed, 2; 1 deficient in protein and excess fiber.
- J. E. M. Milling Co. (Lexington Roller Mills), Frankfort, Ky. Inspection samples analyzed, 3.
Capitol 18½% Protein Egg Mash, 1; equaled guaranty.
Capitol Stock Feed, 1; no corn oil meal or soybean oil meal found; corn gluten feed and linseed oil meal present tho not guaranteed; misbranded.
Capitol 16% Protein Dairy Feed, 1; no corn oil meal found; corn gluten feed present tho not guaranteed.
- Jones Packing Co., Paducah, Ky. Inspection sample of Jones 47% Protein Tankage analyzed, 1; equaled guaranty.
- Joy Milling Co., Elkton, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and fat; ground wheat present.
- Kasco Mills, Toledo, O. Inspection samples analyzed, 15.
Apex 15% Protein All-Mash Starter and Grower, 1; equaled guaranty.
Apex 18% Protein Egg Mash, 2; 1 deficient in protein, no linseed oil meal or dried whey found; 1 cottonseed meal and screenings present tho not guaranteed.
Kasco 20% Protein Egg Producer Mash, 1; unground weed seeds present; misbranded.
Kasco 16% Protein Farm Feed, 3; 1 deficient in protein; 1 meat product present tho not listed.
Apex Horse and Mule Feed, 1; equaled guaranty.
Apex 16% Protein Hog Feed, 1; equaled guaranty.
Apex 20% Protein Pig and Hog Meal, 1; no corn germ meal found; corn gluten product and cottonseed meal present tho not guaranteed.
Kasco Sweet 16% Protein Dairy Feed, 3; 1 no cottonseed meal found; 1 adulterated with approximately 217,600 unground weed seeds to 100 pounds of feed, misbranded; 1 no ground oats, ground barley or oat hull feed found, adulterated with approximately 54,400 unground weed seeds to 100 pounds of feed, misbranded.
Apex 24% Protein Dairy Feed, 2; 1 no oat hull feed found, adulterated with approximately 54,400 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with approximately 44,800 unground weed seeds to 100 pounds of feed, misbranded.

- Keco Milling Co., McKenzie, Tenn. Inspection samples analyzed, 7.
Keco 18% Protein Laying Mash, 1; cottonseed meal present tho not guaranteed.
Keco 18% Protein Pig and Hog Feed, 1; no fish meal found.
Keco Sweet Feed, 3; 1 ground barley and malt sprouts present tho not guaranteed, adulterated with approximately 136,000 unground weed seeds to 100 pounds of feed, misbranded; 2 adulterated with approximately 1,113,600 unground weed seeds to 100 pounds of feed, misbranded; 1 no cottonseed meal found; 1 fish meal present tho not guaranteed.
Keco 16% Protein Dairy Feed, 2; molasses present tho not guaranteed; adulterated with approximately 1,113,600 unground weed seeds to 100 pounds of feed; misbranded.
- Keller Hay & Grain Co., Newport, Ky. Inspection sample of Hominy Feed analyzed, 1; equaled guaranty.
- Kellogg Milling Co., Minneapolis, Minn. Inspection sample of Victory Brand Ground Wheat analyzed, 1; equaled guaranty.
- Spencer Kellogg & Sons, Buffalo, N. Y. Inspection samples of Kellogg's 41% Protein Soybean Oil Meal analyzed, 2; equaled guaranty.
- Kentucky Cotton & Grain Co., Hickman, Ky. Inspection sample of Victory 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- The Kentucky Rendering Co., Taylorsville, Ky. Inspection samples of Blue Grass 60% Protein Tankage analyzed, 2; 1 deficient in protein.
- King Midas Flour Mills, Minneapolis, Minn. Inspection sample of Wheat Red Dog Flour (Hard Wheat) analyzed, 1; equaled guaranty.
- H. C. Knoke & Co., Chicago, Ill. Inspection samples of Knoke's Special Farm Feed analyzed, 2; equaled guaranty.
- The Kroger Grocery & Baking Co., Cincinnati, O. Inspection samples analyzed, 14.
Kroger's Wesco 17% Protein Starting and Growing Mash, 1; soybean oil meal present tho not guaranteed.
Kroger's Wesco 20% Protein Special Egg Mash, 3; equaled guaranty.
Kroger's Wesco 16% Protein Dairy Feed, 3; 1 adulterated with approximately 54,400 unground weed seeds to 100 pounds of feed, misbranded.
Kroger's Wesco 20% Protein Dairy Feed, 4; 1 linseed oil meal present tho not guaranteed; 1 adulterated with approximately 180,800 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with approximately 17,600 unground weed seeds to 100 pounds of feed, misbranded.
Kroger's Wesco 24% Protein Dairy Feed, 3; 2 no salt found.
- Labrot & Graham, Frankfort, Ky. Inspection sample of 28% Protein Distillers Corn Dried Grains analyzed, 1; equaled guaranty.

- The Larrowe Milling Co., Detroit, Mich. Inspection samples analyzed, 8.
Beet Pulp and Beet Molasses—Dried, 1; equaled guaranty.
Larro 19% Protein Chick Builder, 1; excess fiber.
Larro 20% Protein Egg Mash, 1; equaled guaranty.
Larro 27% Protein Turkey Finisher, 1; equaled guaranty.
Larro 17½% Protein Pig and Hog Builder, 1; equaled guaranty.
Larro 40% Protein Hog Feed Supplement, 1; equaled guaranty.
Larro 20% Protein Dairy Feed, 1; equaled guaranty.
Larro 32% Protein Dairy Feed Supplement, 1; equaled guaranty.
- Laswell Milling Co., Brodhead, Ky. Inspection sample of Laswell's Do-Mor 19% Protein Chick Starter analyzed, 1; equaled guaranty.
- Lewisport Mill Co., Lewisport, Ky. Inspection sample of Farmer's Choice Feed analyzed, 1; equaled guaranty.
- Lexington Roller Mills, Lexington, Ky. Inspection samples analyzed, 15.
Thoroughbred Wheat Brown Shorts, 1; deficient in fat.
Thoroughbred Wheat Mixed Feed and Screenings, 1; excess fiber.
Thoroughbred Scratch Feed, 1; equaled guaranty.
Kentucky Queen 16% Protein Starting and Growing All-Mash, 1; equaled guaranty.
Kentucky Queen 19% Protein Broiler Ration, 1; equaled guaranty.
Kentucky Queen 20% Protein Double X Egg Mash, 2; equaled guaranty.
Kentucky Queen 24% Protein Turkey Starting Mash, 1; equaled guaranty.
Thoroughbred 16% Protein Hog Ration, 1; deficient in protein; corn gluten feed and linseed oil meal present tho not guaranteed.
Bossie Stock Feed, 1; corn gluten feed present tho not guaranteed.
Thoroughbred 16% Protein Dairy Feed, 1; equaled guaranty.
Thoroughbred 20% Protein Dairy Feed, 2; equaled guaranty.
Thoroughbred 24% Protein Dairy Feed, 2; 1 excess fiber, soybean screenings present tho not guaranteed.
- Lincoln Milling Co., Crab Orchard, Ky. Inspection sample of Blue Bird Feed analyzed, 1; deficient in protein.
- G. W. Lofton & Son, Providence, Ky. Inspection samples analyzed, 5.
Winter Wheat Gray Shorts and Screenings, 1; equaled guaranty.
Winter Wheat Mixed Feed and Screenings, 1; equaled guaranty.
Lofton's 16% Protein Special Dairy Feed, 3; deficient in protein.
- Loretto Mill Co., Loretto, Ky. Inspection sample of Wheat Mixed Feed and Screenings 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.
- Louisa Supply Co., Louisa, Ky. Inspection samples analyzed, 2.
Louisa Screened Cracked Corn, 1; equaled guaranty.
Louisa Standard Feed, 1; deficient in protein.

- L. B. Lovitt & Co., Memphis, Tenn. Inspection samples of Lovitt Brand 41% Protein Cottonseed Meal analyzed, 6; equaled guaranty.
- Lyon & Greenleaf Co., Ligonier, Ind. Inspection sample of Waseo Wheat Gray Middlings analyzed, 1; equaled guaranty.
- S. M. Marcum & Bros., Sulphur Well, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and fat.
- Marianna Sales Co., Memphis, Tenn. Inspection samples of White Mule Brand 41% Protein Cottonseed Meal analyzed, 3; equaled guaranty.
- Markin Feed Co., Ironton, O. Inspection sample of Standard Feed and Screenings analyzed, 1; equaled guaranty.
- Mayfield Milling Co., Mayfield, Ky. Inspection samples analyzed, 3.
Corn By-product Feed, 1; deficient in fat.
Big Chief 15% Protein Egg All-Mash, 1; peanut oil meal present tho not guaranteed.
Mayfield 24% Protein Dairy Feed, 1; equaled guaranty.
- Mayflower Mills, Ft. Wayne, Ind. Inspection sample of Mayflower Wheat Brown Middlings and Screenings analyzed, 1; equaled guaranty.
- Gentry McCauley Seed Co., Versailles, Ky. Inspection sample of Pleez-U 16% Protein Sheep Feed analyzed, 1; equaled guaranty.
- McKenzie Milling Co., McKenzie, Tenn. Inspection sample of My-T-Good Brand 18% Protein Pig and Hog Feed analyzed, 1; much deficient in protein and excess fiber; ingredients not as guaranteed; misbranded.
- McMillen Feed Mills, Ft. Wayne, Ind. Inspection sample of Master Mix 40% Protein Hog Supplement analyzed, 1; equaled guaranty.
- The Mennel Milling Co., Toledo, O. Inspection sample of Memo Wheat Gray Middlings and Screenings analyzed, 1; equaled guaranty.
- Middlesboro Milling Co., Middlesboro, Ky. Inspection samples analyzed 6.
Hard-to-Beat Feed, 1; equaled guaranty.
Hi-Grade Brand Feed, 1; equaled guaranty.
Reliable Brand 20% Protein Hog Feed, 1; equaled guaranty.
Good Value 16% Protein Dairy Feed, 2; equaled guaranty.
Reliable Brand 24% Protein Dairy Feed, 1; equaled guaranty.
- Miller Cereal Mills, Omaha, Neb. Inspection sample of Hominy Feed analyzed, 1; equaled guaranty.
- Model Mills, Georgetown, Ky. Inspection sample of Best Brand Mixed Feed analyzed, 1; equaled guaranty.
- Mountain City Mill Co., Chattanooga, Tenn. Inspection samples of Blue Cow 16% Protein Feed analyzed, 3; 1 meat scrap present tho not guaranteed; 1 deficient in fat, adulterated with approximately 398,400 unground weed seeds to 100 pounds of feed, misbranded.
- Mt. Vernon Milling Co., Mt. Vernon, Ind. Inspection sample of Poco Hominy Feed analyzed, 1; equaled guaranty.

- Murphy Grain & Milling Co., Owensboro, Ky. Inspection samples of Aiolite Hominy Feed analyzed, 2; equaled guaranty.
- Murray Milling Co., Murray, Ky. Inspection samples analyzed, 2.
Exclusive Brand 19% Protein Hog Feed, 1; calcium carbonate present tho not guaranteed.
Exclusive Brand 16% Protein Dairy Feed, 1; equaled guaranty.
- Myers & Clark, Ashland, Ky. Inspection samples analyzed, 2.
Ideal Brand Corn Feed Meal, 1; deficient in fat.
Ideal Brand Stock Feed, 1; corn gluten feed present tho not guaranteed.
- Nashville Cotton Oil Mill Corporation, Nashville, Tenn. Inspection sample of 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- National Milling Branch of National Biscuit Co., Toledo, O. Inspection sample of Namico Wheat Gray Middlings and Screenings analyzed, 1; equaled guaranty.
- National Oats Co., E. St. Louis, Ill. Inspection samples analyzed, 9.
Corno 18% Protein Starting Mash, 1; equaled guaranty.
Corno 17% Protein Growing Mash, 1; equaled guaranty.
Corno 18% Protein Laying Mash, 1; equaled guaranty.
Corno 15% Protein Hog Fattener, 1; equaled guaranty.
Corno 40% Protein Hog Supplement, 1; equaled guaranty.
Corno 16% Protein Dairy Feed, 1; equaled guaranty.
Nutro 16% Protein Dairy Feed, 1; equaled guaranty.
Corno 24% Protein Dairy Feed, 2; equaled guaranty.
- The New Era Milling Co., Arkansas City, Kan. Inspection sample of Polar Bear Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Nolin Milling Co., Nolin, Ky. Inspection sample of Wheat Red Dog Flour (Soft Wheat) analyzed, 1; equaled guaranty.
- North American Fertilizer Co., Inc., Louisville, Ky. Inspection samples analyzed, 2.
Nafco 41% Protein Soybean Oil Meal, 1; equaled guaranty.
Nafco Minerals for Livestock, 1; equaled guaranty.
- Chas. Nunn & Sons Milling Co., Evansville, Ind. Inspection samples analyzed, 10.
Nunn-Better Brand Wheat Gray Shorts and Screenings, 2; equaled guaranty.
Nunn-Better Brand Wheat Mixed Feed and Screenings, 1; deficient in fat.
Nunn-Better Brand 18½% Protein Egg Mash, 1; equaled guaranty.
Nunn-Better Brand 18½% Protein Egg Mash (with Cod Liver Oil), 1; no dried buttermilk found.
Nunn-Better Brand 20% Protein Egg Mash, 1; no dried buttermilk found.
Nunn-Better Brand 40% Protein Hog Supplement, 4; 1 excess fiber.

- Omaha Flour Mills Co., Omaha, Neb. Inspection sample of Cornhusker Wheat Shorts and Screenings analyzed, 1; equaled guaranty.
- Owensboro Grain Co., Inc., Owensboro, Ky. Inspection sample of Greendale 41% Protein Soybean Oil Meal analyzed, 1; equaled guaranty.
- Owensboro Milling Co., Owensboro, Ky. Inspection samples analyzed, 24.
O-Mil-Co Red Dog (Soft Wheat), 1; equaled guaranty.
TruTest Brand Wheat Feed, 1; equaled guaranty.
Wheat Mixed Feed and Screenings, 1; equaled guaranty.
TruTest Brand Hominy Feed, 2; equaled guaranty.
TruTest Brand 19% Protein Growing Mash, 1; equaled guaranty.
O-Mil-Co 19% Protein Laying Mash, 1; equaled guaranty.
TruTest Brand 21½% Protein Laying Mash, 2; 1 deficient in protein.
Star Brand Horse Feed, 2; equaled guaranty.
TruTest Brand 45% Protein Hog Supplement, 2; excess fiber.
D and H Stock Feed, 2; excess fiber.
Star Brand 16½% Protein Dairy Feed, 9; 2 excess fiber.
- Packers By-Products Co., National Stock Yards, Ill. Inspection sample of Steer Head Brand 60% Protein Tankage analyzed, 1; much deficient in fat; adulterated with soybean oil meal; misbranded.
- Pan-American Mills, Bowling Green, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in fat; corn feed meal present tho not guaranteed.
- S. T. Pease Jr. & Co., Memphis, Tenn. Inspection samples of Pease 41% Protein Cottonseed Meal analyzed, 2; 1 excess fiber.
- The Pecos Valley Alfalfa Mill Co., Chandler, Ariz. Inspection sample of Pecos Special Alfalfa Meal analyzed, 1; equaled guaranty.
- Pratt Food Co., Hammond, Ind. Inspection sample of Pratt's 17% Protein Baby Chick Mash analyzed, 1; equaled guaranty.
- Provico Feeds & Concentrates, Division of Kentucky Chemical Industries, Inc., Cincinnati, O. Inspection samples analyzed, 4.
Big V 20% Protein Egg Mash, 1; equaled guaranty.
Provico 40% Protein Hog Supplement, 1; deficient in fat.
Big V 16% Protein Dairy Feed, 1; excess fiber; no peanut oil meal found.
Provico 24% Protein Dairy Feed, 1; cottonseed meal present tho not guaranteed.
- Purcell Seed Co., Evansville, Ind. Inspection samples analyzed, 2.
Purcell's 20% Protein Pig and Sow Ration, 1; equaled guaranty.
Judge 40% Protein Shoat and Hog Supplement, 1; equaled guaranty.
- The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 25.
Early Bird Scratch Grains, 1; equaled guaranty.
Ful-O-Pep 17% Protein Chick Starter, 1; equaled guaranty.
Ful-O-Pep 19% Protein Growing Mash, 1; equaled guaranty.

Ful-O-Pep 19% Protein Broiler Mash, 1; excess fiber; linseed oil meal present tho not guaranteed.

Ful-O-Pep 20% Protein Laying Mash, 2; equaled guaranty.

Big Egg 20% Protein Laying Mash, 1; no distillers dried grains found.

Ful-O-Pep 26% Protein Turkey Starter, 1; equaled guaranty.

Ful-O-Pep 20% Protein Turkey Grower, 1; equaled guaranty.

Quaker 16% Protein Pig-N-Hog Feed, 1; equaled guaranty.

Ful-O-Pep 16% Protein Pig-N-Sow Feed, 1; equaled guaranty.

Quaker 40% Protein Hog Feed Supplement, 2; 1 ground oats present tho not guaranteed.

Quaker Schumacher Sweet Feed, 2; equaled guaranty.

Quaker Oat Hull Feed and Molasses, 2; equaled guaranty.

Quaker 16% Protein Dairy Feed, 4; 1 ground oats present tho not guaranteed; 1 adulterated with approximately 171,200 unground weed seeds to 100 pounds of feed, misbranded.

Ful-O-Pep 24% Protein Dairy Feed, 2; equaled guaranty.

Quaker 24% Protein Dairy Ration, 2; equaled guaranty.

Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 36.

Purina 18% Protein Chick Startena, 3; equaled guaranty.

Purina 17% Protein Chick Growena All-Mash, 1; equaled guaranty.

Purina 18% Protein Broiler Chow, 1; equaled guaranty.

Purina 15½% Protein All-Mash Layena (Complete Ration), 1; equaled guaranty.

Purina 18% Protein Lay Chow, 2; corn gluten product and alfalfa meal present tho not guaranteed.

Purina 22% Protein Lay Chow, 2; 1 no fish meal found, cottonseed meal and linseed oil meal present tho not guaranteed.

Purina 24% Protein Turkey Startena, 1; equaled guaranty.

Purina 18% Protein Turkey Growena, 1; equaled guaranty.

Purina 14% Protein Turkey-Chicken Fatena Checkers, 1; equaled guaranty.

Purina 16½% Protein Turkey Layena (Complete Ration), 1; equaled guaranty.

Purina 32% Protein Chowder Supplement, 1; equaled guaranty.

Grainola Blue Checker Horse and Mule Feed, 1; equaled guaranty.

Purina 14% Protein Hog Fatena, 1; equaled guaranty.

Purina 28% Protein Sow and Pig Chow Supplement, 2; equaled guaranty.

Purina 36% Protein Hog Chow Supplement, 2; equaled guaranty.

Protana 12% Protein Cattle and Sheep Feed, 1; equaled guaranty.

Purina 16% Protein Goat Chow, 1; equaled guaranty.

Purina War Time Bulky Las Chow, 2; equaled guaranty.

Purina 12½% Protein Dry and Freshening Chow, 1; equaled guaranty.

Purina 19½% Protein Calf Startena, 1; equaled guaranty.

Protana Brand 16% Protein Dairy Feed (Southern States), 4; equaled guaranty.

- Purina 18% Protein Cow Chow (Southern States), 2; equaled guaranty.
- Purina 20% Protein Cow Chow (Southern States), 1; equaled guaranty.
- Purina 24% Protein Cow Chow, 2; equaled guaranty.
- Randolph Milling Co., Bandana, Ky. Inspection sample of O-Joy Feed analyzed, 1; equaled guaranty.
- Read Phosphate Division, Davison Chemical Corporation, New Albany, Ind. Inspection sample of Read Red Diamond 60% Protein Digester Tankage analyzed, 1; equaled guaranty.
- Red Ranger Coal & Feed Co., Nicholasville, Ky. Inspection samples analyzed, 4.
- Red Ranger 18% Protein Starting and Growing Mash, 1; equaled guaranty.
- Red Ranger 20% Protein Laying Mash, 1; linseed oil meal present tho not guaranteed.
- Red Ranger 15% Protein Sheep Feed, 1; equaled guaranty.
- Red Ranger 24% Protein Dairy Feed, 1; equaled guaranty.
- Red River Mills, Adairville, Ky. Inspection sample of Wheat Feed analyzed, 1; equaled guaranty.
- R. D. Riedling, Louisville, Ky. Inspection samples analyzed, 3.
- Magnolia Scratch Feed, 1; equaled guaranty.
- Peerless 18% Protein Laying Mash, 1; soybean oil meal present tho not guaranteed.
- Happy 16% Protein Cow Feed, 1; deficient in fat; no corn gluten feed or linseed oil meal found; soybean oil meal and distillers dried grains present tho not guaranteed; misbranded.
- Robbins Bros., Auburn, Ky. Inspection samples analyzed, 2.
- Wheat Gray Shorts, 1; much deficient in protein; corn meal present; misbranded.
- Mixed Feed, 1; deficient in protein; wheat bran present tho not guaranteed.
- Robinson Milling Co., Somerset, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Rush County Mills, Rushville, Ind. Inspection samples analyzed, 15.
- Hominy Feed, 1; equaled guaranty.
- RCM 18% Protein Chick Starter, 1; equaled guaranty.
- RCM 16% Protein All-Mash, 2; 1 no dried buttermilk, distillers dried grains or charcoal found.
- Imperial 18% Protein Egg Mash, 2; 1 no dried buttermilk, salt or charcoal found, corn gluten feed present tho not guaranteed.
- RCM 40% Protein Pig and Hog Ration, 1; equaled guaranty.
- RCM 14% Protein Sheep Feed, 1; equaled guaranty.
- Soybean Oil Meal, Alfalfa Meal, Corn Gluten Feed, Ground Corn, Corn Screenings and Molasses, 1; equaled guaranty.

- RCM 16% Protein Dairy Feed, 3; 1 deficient in fat; 1 ingredients not as guaranteed, misbranded.
- RCM 24% Protein Dairy Feed, 2; 1 no distillers dried grains found; 1 corn gluten product present tho not guaranteed.
- RCM 32% Protein Dairy Supplement, 1; deficient in fat.
- Sacramento Milling Co., Sacramento, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Salt Lick Roller Mills, Salt Lick, Ky. Inspection sample of Perfect Brand X Mixed Feed analyzed, 1; deficient in protein.
- Sandusky Bros., Harrodsburg, Ky. Inspection samples of Mixed Feed analyzed, 2; equaled guaranty.
- Schultz, Baujan & Co., Beardstown, Ill. Inspection samples analyzed, 6.
- Honest Brand 17% Protein Starting and Growing Mash, 1; much excess fiber; misbranded.
- Critic 18% Protein Starting and Growing Mash, 1; no charcoal found; wheat bran present tho not guaranteed.
- Sweet Clover Brand 17% Protein Growing Mash, 1; excess fiber; ground barley present tho not guaranteed.
- Honest Brand 18% Protein Egg Mash, 1; ground barley present tho not guaranteed.
- Critic 13% Protein Poultry Fattener, 1; equaled guaranty.
- Honest Brand 40% Protein Hog Supplement, 1; equaled guaranty.
- Scioto Farm Bureau Co-operative Association, Lucasville, O. Inspection sample of Scioto Feed analyzed, 1; equaled guaranty.
- The Scott County Milling Co., Sikeston, Mo. Inspection samples analyzed, 4.
- Gristo Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- Gristo 20% Protein Laying Mash, 1; equaled guaranty.
- Gristo 36% Protein Pig and Hog Supplement, 1; equaled guaranty.
- Semo 16% Protein Dairy Feed, 1; deficient in protein.
- Sebree Milling Co., Sebree, Ky. Inspection samples analyzed, 2.
- Cream Patent Feed, 1; deficient in protein.
- Korb's Heavy Mixed Feed, 1; deficient in protein; excess corn product present.
- Security Mills, Knoxville, Tenn. Inspection samples analyzed, 2.
- Big S 20% Protein Laying Mash, 1; equaled guaranty.
- Security Milk Booster Brand 16% Protein Dairy Feed, 1; ground corn and brewers dried grains present tho not guaranteed.
- Sherwin-Williams Co., Cleveland, O. Inspection sample of Sherwin Williams 34% Protein Linseed Meal analyzed, 1; equaled guaranty.
- Shipp & Warner Feed Mills, Campbellsville, Ky. Inspection samples analyzed, 3.
- Economy Brand 17% Protein Starter and Grower, 1; equaled guaranty.
- Economy Brand 17% Protein Pig and Hog Feed, 1; equaled guaranty.
- Economy Brand 16% Protein Dairy Feed, 1; equaled guaranty.

- Simpson County Mills, Franklin, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- J. Allen Smith & Co., Knoxville, Tenn. Inspection samples analyzed, 2.
Peerless Feed, 1; equaled guaranty.
Butter Fat Brand Feed, 1; equaled guaranty.
- Somerset Hatchery Feed & Seed Co., Somerset, Ky. Inspection samples analyzed, 5.
Gothard's Pride 17% Protein Chick Starter, 1; equaled guaranty.
Gothard's Pride 18% Protein Laying Mash, 1; linseed oil meal present tho not guaranteed.
Sun Rise 18% Protein Laying Mash, 1; deficient in protein; no skimmed milk found; linseed oil meal present tho not guaranteed.
Gothard's Pride 32% Protein Poultry Supplement, 1; no dried butter-milk found.
Our Pride 16% Protein Dairy Feed, 1; alfalfa meal present tho not guaranteed.
- Woodford Spears & Sons, Paris, Ky. Inspection sample of Spears Feed analyzed, 1; equaled guaranty.
- A. E. Staley Manufacturing Co., Decatur, Ill. Inspection samples of Staley's 41% Protein Soybean Oil Meal analyzed, 4; equaled guaranty.
- Standard Roller Mills, Cerulean, Ky. Inspection sample of Jersey Mixed Feed analyzed, 1; equaled guaranty.
- Star Milling Co., Inc., Clinton, Ky. Inspection sample of Tenn. Special Brand 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Star Roller Mills, Cloverport, Ky. Inspection samples of Star 18% Protein Dairy Feed analyzed, 2; equaled guaranty.
- Sun-Ray Feed Mills (Woolcott Flour Mills), Lexington, Ky. Inspection samples analyzed, 11.
Sun-Ray 18% Protein Starting and Growing All-Mash, 1; equaled guaranty.
Sun-Ray 18% Protein Broiler Ration, 1; excess fiber.
Booster 18% Protein Laying Mash, 1; equaled guaranty.
Sun-Ray 20% Protein Laying Mash, 1; equaled guaranty.
Booster Stock Feed, 3; 1 deficient in fat; 1 adulterated with approximately 2,986,200 unground weed seeds to 100 pounds of feed, misbranded.
Sun-Ray 40% Protein Hog Supplement, 2; 1 excess fiber, wheat bran present tho not guaranteed.
Booster 16% Protein Dairy Feed, 1; equaled guaranty.
Sun-Ray 24% Protein Dairy Feed, 1; equaled guaranty.
- Sunshine Feed Mills (Hermitage Mills), Nashville, Tenn. Inspection sample of Dandelion Brand 16% Protein Dairy Feed analyzed, 1; soybean oil meal present tho not guaranteed; screenings substituted for oat hull feed.

- Sunshine Feed Store, Louisville, Ky. Inspection samples analyzed, 3.
Sunshine 16% Protein Dairy Feed, 2; equaled guaranty.
Sunshine 20% Protein Dairy Feed, 1; equaled guaranty.
- D. B. Sutherland & Sons, Bloomfield, Ky. Inspection samples analyzed, 4.
Sutherland's Farm Feed, 1; equaled guaranty.
Kentucky Star 17% Protein Starter and Grower, 1; no corn oil cake found.
Kentucky Star 18% Protein Laying Mash, 1; equaled guaranty.
Kentucky Star 15% Protein Hog Feed, 1; deficient in protein; no linseed oil meal found.
- Sweet Feeds, Inc., Hopkinsville, Ky. Inspection sample of Sweet Mix 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Sweet Feed Mills, Inc., Bowling Green, Ky. Inspection samples of Ace 16% Protein Dairy Feed analyzed, 3; no ground oats found; 1 no soybean oil meal found.
- Swift & Co., Chicago, Ill. Inspection samples analyzed, 2.
Swift's 5% Protein Special Steamed Bone, 1; excess fiber.
Swift's 55% Protein Digester Tankage, 1; equaled guaranty.
- Swift & Company Oil Mill, Cairo, Ill. Inspection samples of Cotton Bloom 41% Protein Cottonseed Meal analyzed, 2; equaled guaranty.
- Swift & Company Oil Mill, Memphis, Tenn. Inspection samples of Cotton Bloom 41% Protein Cottonseed Meal analyzed, 4; 3 deficient in protein.
- Tell City Flouring Mills, Tell City, Ind. Inspection samples analyzed, 6.
Hoosier Hominy Feed, 1; deficient in fat.
Hoosier No. 2 Special Mix Feed, 4; 1 deficient in protein and excess fiber.
Hoosier 18% Protein Egg-Producer Mash, 1; equaled guaranty.
- Thomson's Mill, Madisonville, Ky. Inspection samples analyzed, 7.
Thomson's Wheat Mixed Feed, 1; deficient in fat; ground corn present; misbranded.
Ideal Brand 18% Protein Egg Mash, 1; deficient in protein; ground wheat substituted for wheat bran and wheat shorts.
Sixty-Six Horse and Mule Feed, 1; no clipped oat by-product found.
Thomson's Ideal Brand 16% Protein Dairy Feed, 4; 1 no cottonseed meal found; 1 no brewers dried grains found; 1 ingredients not as guaranteed, misbranded.
- Tilford & Walters, Metropolis, Ill. Inspection sample of Masco Special Brand 16% Protein Dairy Feed analyzed, 1; no cottonseed meal found; cottonseed hulls present tho not guaranteed; adulterated and misbranded.
- Trenton Cotton Oil Co., Trenton, Tenn. Inspection sample of Trenton Brand 41% Protein Cottonseed Meal analyzed, 1; deficient in protein.

- Trenton Milling Co., Trenton, Ill. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Triple-Bridge Mills, Franklin, Ky. Inspection sample of Wheat Bran analyzed, 1; equaled guaranty.
- Tyner Feed Mills (Hermitage Mills), Nashville, Tenn. Inspection sample of Hi-Grade Brand 40% Protein Hog Supplement analyzed, 1; deficient in protein.
- The Ubiko Milling Co., Cincinnati, O. Inspection samples analyzed, 31.
Ground Wheat, 1; equaled guaranty.
Glendale Scratch Feed, 1; equaled guaranty.
Sunbeam 17% Protein Starter and Grower, 1; corn gluten feed present tho not guaranteed.
Ubiko 18% Protein Growing Mash, 1; equaled guaranty.
Ubiko 18% Protein All-Mash Starter, 1; equaled guaranty.
Ubiko 15% Protein All-Mash Developer, 2; equaled guaranty.
Ubiko 14% Protein Fattening Mash, 1; equaled guaranty.
Sunbeam 20% Protein Laying Mash, 2; equaled guaranty.
Ubiko 20% Protein Egg and Breeder Mash, 1; no corn germ meal found; corn gluten meal present tho not guaranteed.
Ubiko 25% Protein Turkey Starter, 1; equaled guaranty.
Ubiko 20% Protein Turkey Growing Mash, 1; no dried whey found.
Ubiko 16% Protein Turkey All-Mash Growing Ration, 1; equaled guaranty.
Ubiko 32% Protein Poultry Mash Supplement, 1; equaled guaranty.
Crusader Horse Feed, 1; equaled guaranty.
Sunbeam 14% Protein Pig and Hog Meal, 1; equaled guaranty.
Ubiko 15% Protein Sheep Feed, 1; equaled guaranty.
Ubiko 12% Protein Rabbit Pellets, 1; equaled guaranty.
Ubiko 40% Protein Hog Supplement, 1; excess fiber.
Honeycomb Brand Sweet Feed, 1; equaled guaranty.
Clover Bloom Sweet 16% Protein Dairy Feed, 4; 1 no distillers dried grains found; 1 unground weed-seeds present, misbranded.
Union Grains 20% Protein Sweet Dairy Ration, 1; equaled guaranty.
Sunbeam 24% Protein Dairy Ration, 2; 1 no distillers dried grains found.
Union Grains 24% Protein Dry Dairy Ration, 1; equaled guaranty.
Union Grains 24% Protein Sweet Dairy Ration, 1; equaled guaranty.
Union Grains 32% Protein Sweet Dairy Ration Supplement, 1; equaled guaranty.
- The Union National Mill, Springfield, O. Inspection sample of William Tell Wheat Feed and Screenings analyzed, 1; equaled guaranty.
- Union Starch & Refining Co., Columbus, Ind. Inspection sample of Union Corn Gluten Feed analyzed, 1; equaled guaranty.
- Van Meter-Terrell Feed Co., Lexington, Ky. Inspection sample of Viola 20% Protein Cow Feed analyzed, 1; equaled guaranty.

- C. F. Vissman & Co., Louisville, Ky. Inspection samples analyzed, 2.
Vissman's 50% Protein Ground Meat Scraps, 1; equaled guaranty.
Vissman's 60% Protein Digester Tankage, 1; equaled guaranty.
- Vitality Mills, Chicago, Ill. Inspection sample of Domino All-In-One Rab-Ets analyzed, 1; equaled guaranty.
- John Wachtel Co., Indianapolis, Ind. Inspection sample of 60% Protein Tankage analyzed, 1; equaled guaranty.
- Weisenberger Sanitary Flour Mills, Midway, Ky. Inspection sample of Repeater Feed analyzed, 1; equaled guaranty.
- West Ninth Street Mill, Owensboro, Ky. Inspection sample of Quality Brand 15% Protein Pig and Hog Feed analyzed, 1; no linseed oil meal found; ground barley and lespedeza meal present tho not guaranteed.
- Wetzel Milling Co., Nicholasville, Ky. Inspection sample of Premium Brand Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Wiedlocher & Sons, Springfield, Ill. Inspection samples analyzed, 10.
Faultless Brand 17% Protein Starting and Growing Mash, 1; equaled guaranty.
Faultless Brand 18% Protein Growing Mash, 1; ground oats present tho not guaranteed.
Faultless Brand 20% Protein Egg Mash, 1; equaled guaranty.
Faultless Brand 20% Protein Pig and Hog Feed, 2; equaled guaranty.
Faultless Brand 26% Protein Calf Meal, 1; deficient in fat; ground oats, alfalfa product and charcoal present tho not guaranteed.
Congress 16% Protein Dairy Feed, 3; 1 no ground soybeans found; 1 adulterated with approximately 171,200 unground weed seeds to 100 pounds of feed, misbranded; 1 adulterated with approximately 225,600 unground weed seeds to 100 pounds of feed, misbranded.
Faultless Brand 24% Protein Sweet Dairy Feed, 1; adulterated with approximately 89,600 unground weed seeds to 100 pounds of feed; misbranded.
- Williamstown Roller Mills, Williamstown, Ky. Inspection samples of Mixed Feed analyzed, 2; equaled guaranty.
- Winchester Milling Co., Winchester, Ky. Inspection samples analyzed, 3.
Screened Cracked Corn, 1; equaled guaranty.
Perfection Brand Wheat Brown Shorts, 1; equaled guaranty.
Perfection Brand Feed, 1; deficient in protein.
- Winn Milling Co., Greensburg, Ky. Inspection samples analyzed, 3.
Daisy 17% Protein Starter and Grower, 1; equaled guaranty.
Daisy 18% Protein Laying Mash, 1; no corn germ meal or fish meal found; corn gluten product present tho not guaranteed.
Daisy 16% Protein Dairy Feed, 1; equaled guaranty.

Winn & Tobin Milling Co., Leitchfield, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Woolcott Flour Mills, Lexington, Ky. Inspection sample of Woolcott's Best Brand Mixed Feed analyzed, 1; equaled guaranty.

Ziliak & Schafer Milling Co., Evansville, Ind. Inspection samples analyzed, 6.

Lamey's "3 in 1" 17% Protein All-Mash Poultry Ration, 1; no dried buttermilk found.

Lamey's Life Cycle 17% Protein Poultry All-Mash, 1; deficient in protein and much excess fiber; no dried buttermilk or cod liver oil found; misbranded.

Target 18% Protein Egg Mash, 1; equaled guaranty.

Elite 18% Protein Egg Mash, 1; deficient in protein; no dried buttermilk found; cottonseed meal present tho not guaranteed.

Elite Horse and Mule Feed, 1; no salt found.

Lamey's 16% Protein Dairy Feed, 1; lespedeza meal substituted for alfalfa meal.