

Commercial Feeds in Kentucky, 1947

Including Report on Official Feed
Samples Analyzed

October-December, 1947



Kentucky Agricultural Experiment Station
University of Kentucky
Lexington

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Commercial Feeds in Kentucky, 1947

The estimated tonnage of commercial feeds consumed in Kentucky during 1947, based on the sale of guaranty tags, was 582,375 tons. This was 65,286 tons less than in 1946.

Tonnage of feed sold in Kentucky, as estimated from the number of tax tags issued by calendar years, beginning with 1940, was as follows:

<i>Year</i>	<i>Tons</i>
1940.....	353,138
1941.....	350,000
1942.....	426,805
1943.....	630,438
1944.....	663,039
1945.....	671,351
1946.....	647,661
1947.....	582,375

Of the tonnage for 1947, 140,025 tons were dairy feed; 37,570 tons, hog feed; 25,630 tons, horse and mule feed; 134,085 tons, poultry feed; 4,215 tons, rabbit feed; 1,450 tons, sheep feed; 16,615 tons, stock feed; 10,505 tons, dog feed; 3,995 tons, mineral feed; 500 tons, goat feed; and 153,880 tons were straight by-product feed.

A summary of estimated sales by class of feed, in tonnage, is given in Table 1.

FEEDER'S GUIDE

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

The Feed Control Department constantly makes check analyses of feeds sold in Kentucky. The results are summarized and published with other valuable data on feeds and their use, in bulletins, which are sent free to anyone interested. Other publications of interest to feeders can be obtained from county agricultural agents or by writing to the Agricultural Experiment Station, Lexington.

TABLE 1—SUMMARY OF SALES BY CLASS OF FEED, KENTUCKY, 1947

Feed	Tons	Feed	Tons
Straight byproducts			
Alfalfa meal	300	Calf feed	3,290
Barley, ground	75	Dairy feed	
Bone meal	550	16% protein, yellow tag	28,700
Brewers dried grains	1,575	16% protein, white tag	22,475
Corn, ground	175	18% protein, yellow tag	1,550
Corn meal	300	18% protein, white tag	5,000
Corn feed meal	900	20% protein, yellow tag	3,350
Corn byproduct feed	2,975	20% protein, white tag	27,725
Corn gluten feed	100	24% protein, yellow tag	5,200
Corn, cracked	22,440	24% protein, white tag	37,775
Crushed ear corn	500	Supplement	6,825
Cottonseed meal	4,850	Dry, freshing, and fitting feed	1,425
Cottonseed meal (solvent)	700	Total dairy feed	140,025
Distillers dried grains	4,175	Dog and cat feed	10,505
Distillers dried solubles	500	Goat feed	500
Hominy feed	10,800	Hog feed	
Linseed oil meal	575	Fattening and growing	24,455
Meat scrap	2,125	Supplement	13,115
Meat and bone scrap	600	Total hog feed	37,570
Mixed feed	15,875	Horse and mule feed, yellow tag	1,175
Oats, ground	375	Horse and mule feed, white tag	23,610
Oat hull feed	825	Total horse and mule feed	24,785
Soybean oil meal	19,250	Pigeon feed	125
Solvent soybean oil meal	1,375	Poultry grains	
Soybean feed (extracted)	100	Chick	4,510
Tankage	3,600	Scratch	41,105
Wheat bran	11,700	Total poultry grains	45,615
Wheat brown middlings or shorts	4,625	Poultry mash	
Wheat gray middlings or shorts	28,770	All-mash starter and grower	5,665
Wheat red dog flour	1,100	All-mash laying	12,535
Wheat mixed feed	8,975	Broiler mash	8,685
Wheat feeds (miscellaneous)	2,375	Fattening mash	2,125
Wheat (ground)	720	Flushing feed	525
Total straight byproduct	153,880	Growing mash	13,880

SUMMARY OF SALES BY CLASS OF FEED, KENTUCKY, 1947—CON'T.

Feed	Tons	Feed	Tons
Special purpose feeds—Continued		Rabbit feed	4,215
Laying mash	51,220	Sheep feed	1,450
Starting mash	10,045	Stock feed	16,615
Starting and growing mash	16,110	Miscellaneous feeds	
Supplement mash	3,875	Mineral feeds	3,995
Turkey growing mash	4,660	Miscellaneous	3,345
Turkey laying mash	1,225	Protein and mineral feed	2,375
Turkey starting mash	3,010		
Turkey supplement mash	525		
Total poultry mash	134,085	Total, all feeds	582,377

SYSTEM OF TAGGING

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

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

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

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

AVERAGE COMPOSITION OF SOME FEEDSTUFFS

This table contains the average analysis of feed materials usually found in commercial feeds in Kentucky. The data are from analyses made at this Station and from other published results, especially **Food and Life** (U. S. Dept. Agr. Yearbook, 1939) and **Feeds and Feeding**, by F. B. Morrison, 1946.

	Protein	Fat	Fiber	Cal- cium	Phos- phorous	Vita- min A	Vita- min G
	%	%	%	%	%	I. U. per lb.	Micro- grams per lb.
Concentrates							
Alfalfa leaf meal	20.0	3.0	16.0	1.90	0.22	32,000	7,000
Alfalfa meal	14.0	2.0	30.0	1.44	0.21	13,000	5,000
Barley	11.5	2.0	5.0	0.05	0.36	400	400
Beet pulp, dried	8.0	0.5	20.0	0.70	0.07		
Blood, dried	82.0	0.9		0.33	0.26		
Bonemeal, steamed	7.1	3.3	0.8	28.80	13.34		
Brewers dried grains	24.0	6.5	15.0	0.20	0.46		
Buckwheat	10.5	2.5	10.5	0.06	0.43		300
Buttermilk, dried	32.5	5.5		1.56	1.05	200	9,000
Buttermilk, semisolid	13.5	3.0					
Corn (yellow)	9.0	4.0	2.0	0.01	0.29	3,180	450
Corn-and-cob meal	8.0	3.5	8.0		0.23		
Crushed ear corn with husks	7.5	3.0	7.8				
Corn bran	10.0	6.0	10.0	0.03	0.20		
Corn chop	9.5	4.0	2.0				
Corn chop (screened)	8.5	3.7	2.5				
Corn feed meal	8.5	4.0	4.5	0.04	0.38		
Corn germ meal	21.0	9.0	9.0				
Corn gluten feed	25.0	2.7	7.0	0.13	0.64		
Corn gluten meal (yellow)	42.0	2.3	2.5	0.06	0.40	6,800	
Cottonseed meal, 43% protein	43.0	6.0	10.0				
Cottonseed meal, 41% protein	41.0	5.5	11.0	0.23	1.18	600	300
Distillers corn dried grains	30.0	10.0	11.5	0.04	0.30		
Fish meal	55.0	8.0	0.9	6.5	3.60		4,500
Hominy meal	11.0	8.0	5.5	0.03	0.57		
Kafir corn	11.0	3.0	2.5	0.03	0.35	250	
Linseed oilmeal	34.0	6.5	8.5	0.33	0.74	200	900
Malt sprouts	31.0	2.0	12.0	0.18	0.70		
Meat scrap, 50% protein	50.0	7.5	2.3	10.2	4.91		2,700
Millet seed	11.5	3.0	7.8	0.01	0.33		
Molasses, cane	3.2			0.56	0.06		
Oats	11.5	4.6	11.0	0.10	0.36	80	400
Oat kernels	16.0	6.4	1.6	0.08	0.44		
Peanut oilmeal	42.5	7.5	9.0	0.18	0.56	250	1,200
Rice bran	12.5	12.5	12.5	0.10	1.84		900
Rye	11.8	1.8	1.8	0.05	0.36		
Rye middlings	15.5	3.7	5.5		0.44		
Skim milk, dried	34.0	1.0		1.27	0.96	130	9,500
Sorghum grains	9.5	3.4	2.0				
Soybean (seed)	36.5	17.5	4.3	0.20	0.53	600	1,300
Soybean oilmeal (expeller)	41.0	4.0	6.5	0.29	0.69	170	1,400
Soybean oilmeal (solvent)	44.0	1.0	7.0	0.29	0.69		
Tankage, 60% protein	60.0	7.0	2.0	7.16	3.53		800
Tankage, 50% protein	50.0	10.5	2.5				
Whale meal	75.0	11.0	2.0				
Wheat	12.4	2.1	2.2	0.04	0.39	140	400
Wheat bran	15.4	4.0	9.5	0.11	1.21	150	1,000
Wheat brown middlings or shorts	16.5	4.5	7.3	0.08	0.93		
Wheat germ meal	28.5	10.7	2.5	0.07	1.01		
Wheat gray middlings or shorts	16.7	4.6	5.5			120	900
Wheat mixed feed	16.0	4.4	8.3				
Wheat red dog flour	16.5	4.0	2.4	0.07	0.59	60	450
Wheat white middlings or shorts	16.2	3.7	2.9				
Whey (American cheese)	0.9	0.3		0.83	0.70		12,000
Yeast, dried	45.0	3.0	1.0	1.26	1.21		16,000
Yeast, grains	20.8	6.3	16.1				
Roughages							
Alfalfa hay	14.5	2.3	29.7	1.43	0.21		
Bluegrass hay	8.2	2.5	29.8	0.30	0.22		
Clover hay, alsike	12.0	2.2	27.1	0.76	0.23		
Clover hay, red	11.8	2.6	27.3	1.21	0.18		
Corn stover (ears removed)	5.9	1.6	30.8	0.46	0.09		
Corn stover (with ears)	7.8	2.2	27.1				

	Protein	Fat	Fiber	Cal- cium	Phos- phorous	Vita- min A	Vita- min G
	%	%	%	%	%	I. U. per lb.	Micro- grams per lb.
Roughages—Continued							
Cowpea hay	18.6	2.6	22.5	1.13	0.25	-----	-----
Lespedeza hay	13.5	2.5	28.0	0.99	0.19	-----	-----
Soybean hay	15.5	2.8	26.5	0.96	0.25	-----	-----
Timothy hay	6.2	2.5	29.8	0.27	0.16	-----	-----
Fillers							
Alfalfa stem meal	6.3	0.9	57.4	-----	-----	-----	-----
Buckwheat hulls	4.4	1.0	43.7	-----	0.02	-----	-----
Corncobs	2.0	0.4	31.8	-----	0.02	-----	-----
Cottonseed hulls	3.9	1.0	45.5	0.13	0.10	-----	-----
Oat hull feed	5.5	2.1	26.5	-----	-----	-----	-----
Oat hulls	3.8	1.2	30.0	0.20	0.10	-----	-----
Screenings ^a	-----	-----	-----	-----	-----	-----	-----
Screenings refuse ^b	-----	-----	-----	-----	-----	-----	-----

^a Varies in quality from fair to poor.

^b Varies in quality from poor to worthless and even dangerous.

METHOD OF CALCULATING THE ANALYSIS OF A FEED MIXTURE

Requests are often received for a method of calculating the analysis of a given feed mixture. Examples are given of two classes of feed most commonly mixed by the feeder, in 1,000-pound batches, for his stock.

Example 1. 20-percent protein dairy feed

1	2	3	4
Ingredients	Percentage of protein, or pounds in 100	Hundreds of pounds of each ingredient	Pounds of protein from each ingredient
150 pounds wheat bran	15	1.5	22.5
200 pounds ground shelled corn	9	2	18.0
150 pounds hominy meal	11	1.5	16.5
150 pounds cottonseed meal	41	1.5	61.5
150 pounds soybean oil meal	41	1.5	61.5
100 pounds ground oats	11	1	11.0
100 pounds alfalfa meal	14	1	14.0
1000 pounds		10	205.0

Then 205.0 divided by 10=20.5, the percentage of protein in this feed.

Example 2. 20-percent protein laying mash

1	2	3	4
Ingredients	Percentage of protein, or pounds in 100	Hundreds of pounds of each ingredient	Pounds of protein from each ingredient
150 pounds wheat bran	15	1.5	22.5
200 pounds wheat middlings	16	2	32.0
200 pounds ground yellow corn	9	2	18.0
100 pounds ground oats	11	1	11.0
150 pounds meat scrap	50	1.5	75.0
100 pounds alfalfa meal	14	1	14.0
100 pounds soybean oil meal	41	1	41.0
1000 pounds		10	213.5

Then 213.5 divided by 10=21.35, the percentage of protein in this feed.

Explanation of Method Used in Table I.

1. List the number of pounds and ingredients in column 1.
2. Get from the guaranty on the official tag or from the average analysis the protein content of each ingredient and put it in column 2.
3. Place the hundreds of pounds of each ingredient in column 3. For example, 150 pounds of an ingredient is listed as 1.5 hundred pounds.
4. Multiply the figure for each ingredient in column 2 by that in column 3 to get the figure in column 4. This is multiplying the number of pounds of protein in a hundred, by the number of hundred pounds of each ingredient, to get the total pounds of protein furnished by each ingredient.

5. Add column 3, which gives the total weight of the mixture, in hundred pounds.

6. Add column 4, which gives the total weight of protein in the mixture.

7. Divide the sum of column 4 by the sum of column 3. This gives the percentage of protein in the mixture.

The percentages of other substances such as fat or fiber can be calculated in a similar way.

Some of the standards that have been in effect in Kentucky for a number of years were changed January 1, 1948.

The present standards and regulations are as follows:

Chemical Standards:

Standard By-Products:	Minimum Protein	Minimum Fat	Maximum Fiber
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%
Special-Purpose Mixed Feeds:			
Dairy Feed	16.00%	3.00%	15.00%
Hog Feed (Fattening)	14.00%	2.50%	8.00%
Hog Feed (Growing)	16.00%	3.00%	6.00%
Horse and Mule Feed	9.00%	2.00%	15.00%
Poultry:			
All-Mash Broiler Ration	18.00%	2.50%	8.00%
All-Mash Growing Ration	15.00%	2.50%	7.00%
All-Mash Laying Ration	15.00%	2.50%	8.00%
All-Mash Poultry Ration	15.00%	2.50%	7.00%
All-Mash Starting Ration	17.00%	2.50%	7.00%
All-Mash Starting and Growing Ration	17.00%	2.50%	7.00%
Broiler Mash	18.00%	2.50%	8.00%

Chemical Standards—Continued

Poultry—Continued	Minimum Protein	Minimum Fat	Maximum Fiber
All-Mash Poultry			
Fattening Mash	12.00%	2.50%	8.00%
Growing Mash	17.00%	2.50%	8.00%
Laying Mash	18.00%	2.50%	8.00%
Starting Mash	20.00%	2.50%	7.00%
Starting and Growing Mash....	17.00%	2.50%	7.00%
Turkey All-Mash			
Laying Ration	16.00%	2.50%	8.00%
Turkey Growing Mash	18.00%	2.50%	8.00%
Turkey Laying Mash	20.00%	2.50%	8.00%
Turkey Starting Mash	22.00%	2.50%	8.00%
Turkey Starting and Growing Mash	20.00%	2.50%	8.00%

General Requirements:

- (a) In making registrations, care should be exercised to make the chemical guaranties reasonably close to the actual content of 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. Example: 41% Protein Cottonseed Meal, 60% Protein Tankage. Where more than one special purpose feed is offered under the same brand name and for the same purpose, the protein guarantee must form a part of the brand name. Example "Excelsior Brand" 18% Protein Dairy Feed, "Excelsior Brand" 20% Protein Dairy Feed.
- (d) Oil-mill by-products 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 name of its ingredients.
- (f) In naming feeds, the terms "feed" and "ration" should be distinguished. A feed may or may not be a ration. A ration is a complete feed and does not require other feed to be fed in addition to it.

Ingredients:

- (a) Basic or essential organic food ingredients 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, when added to a feed must not exceed 3%, except for laying and breeder mashes in which 4% is allowed. Where it can be shown that these allowances will not provide the minimum mineral requirements for a given feed, larger amounts may be allowed upon special request.
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.

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.

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.

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.

TABLE 2—REPORT OF OFFICIAL FEED SAMPLES ANALYZED
October—December, 1947

Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse, have been made to stand out in the report by the use of bold-faced type, a pointing hand, and (where necessary) appropriate remarks in the column labeled "Remarks."

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN		FAT		FIBER		REMARKS	
		Guar. Fnd.	Fnd.	Guar. Fnd.	Fnd.	Guar. Fnd.	Fnd.		
Acme-Evans Company, Inc. Indianapolis, Indiana	Acme Special 18% Egg Mash	A & P Tea Co., Neon	18.00	19.00	3.50	3.60	8.00	8.40	Adulterated with rice hulls. Misbranded.
Allied Mills, Inc., Chicago, Illinois	Wayne 20% Egg Mash	Herndon Brothers, Russellville	20.00	20.80	3.50	4.50	8.00	6.60	
	24% Dairy Feed	Dodd's Corner, Nicholasville	24.00	24.40	3.50	3.80	10.00	8.50	
	Wayne 16% Dairy Feed	Farmers Elevator Co., Franklin	16.00	17.00	3.50	3.30	13.00	9.70	
	Sugarine 16% Dairy Feed	G. H. Bowles & Son, Glasgow	16.00	18.40	3.50	3.00	15.00	10.00	Adulterated with ground screenings refuse. Misbranded.
	Wayne 40% Hog Supplement	Farmers Elevator Co., Franklin	40.00	40.90	3.50	5.40	7.00	6.00	
Arcady Farms Milling Company, Chicago, Illinois	Wonderfat 14% Station Feed	Harrodsburg Ice & Produce Co., Harrodsburg	14.00	15.10	4.50	5.00	7.00	7.70	
	Wonderfat 14% Station Feed	George P. Taylor Co., Burnside	14.00	15.50	4.50	5.30	7.00	7.40	
	Wonderfat 15% Station Feed	Gibson Produce Co., Monticello	15.00	15.10	4.50	7.00	6.00	8.10	
Aubrey & Company, Louisville, Kentucky	Red "A" 20% Laying Mash	Leshle County Grocery, Hyden	20.00	21.60	4.00	4.90	8.00	7.80	
	Red "A" 14% Poultry Fattening Mash	Bedford & Tuttle, Winchester	14.00	12.90	4.00	5.60	6.00	5.20	

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN		FAT		FIBER		REMARKS
		Guar. Fnd.	Fnd.	Guar. Fnd.	Fnd.	Guar. Fnd.	Fnd.	
Aubrey & Company, Louisville, Ky.—Cont.								
Red "A" 20% Dairy Feed	Wilmore Coal, Feed & Farm Seed Co., Wilmore	20.00	20.60	4.00	3.90	14.00	12.30	
Red "A" 16½% Dairy Feed	Ice's Produce, Bardstown	16.50	17.00	4.00	4.20	15.00	12.50	
Hominy Meal	McWhorter Produce, Albany	10.00	10.10	7.00	6.30	6.00	4.10	
Hominy Meal	Mardis & Hedgespeth, Campbellsville	10.00	9.90	7.00	6.80	6.00	4.90	
Red "A" Horse Feed	J. H. Tate, Monticello	10.00	10.50	3.00	3.30	10.00	9.70	
Aylor & Meyer Co., Aurora, Indiana								
Rainbow 16% Dairy Feed	Walton & Readnour, Walton	16.00	17.10	3.50	4.20	10.00	11.10	Adulterated with alfalfa stem meal.
Ballard & Ballard Co., Louisville, Ky.								
Guardian 20% Laying Mash	McCauley Bros. Seed Co., Versailles	20.00	20.70	3.50	4.00	7.00	6.20	
Milk Insurance 20% Dairy Feed	Southern Kentucky Wholesale Groceries, Franklin	20.00	21.00	3.50	4.20	9.00	8.60	
Guardian 16% Sweet Dairy Feed	Farmer's Supply Co., Danville	16.00	19.80	3.50	3.80	15.00	13.30	
Insurance 24% Dog Feed	N. S. Duley & Son, Flemingsburg	24.00	27.30	4.00	5.40	4.00	4.20	
Bardstown Mills, Bardstown, Kentucky								
Royal Mixed Feed	Leon Rider, Upton	14.75	13.50	4.50	4.10	7.75	6.00	
Baughman Milling Co., Stanfords, Kentucky								
Banner Stock Feed	Jim Pyles, Junction City	13.50	13.00	3.50	4.90	7.00	7.20	Adulterated with ground screenings.
The Big Four Mills, Ltd., Covington, Kentucky								
Hi-Lo 24% Dairy Feed	Campbell Feed Co., Lexington	24.00	23.60	3.50	4.00	15.00	13.80	Adulterated with about 50,000 unground weed seeds per 100 lbs. Misbranded.
O. K. 18% Dairy Feed								
Big Four 20% Pig and Hog Feed	Paintsville Grocery, Paintsville	18.00	20.90	3.50	4.20	15.00	13.90	
	Craft Grocery, Manchester	20.00	20.70	3.50	4.60	7.00	7.50	

Binns Milling Co., Herndon, Kentucky	Haydon & Cain, General Merchandise, Hopkinsville	15.50	16.30	5.50	4.90	6.00	4.20
☞ Eclipse 15½% Hog Feed							☞
The Blair Elevator Corp., Atchison, Kansas	Edwin C. Hawkins, Paducah	18.00	18.90	3.50	4.90	8.00	8.10
☞ Certified 15% Laying Mash							☞
Blish Milling Co., Seymour, Indiana	Union Supply Co., Lynch	16.00	15.80	4.00	4.40	7.50	5.20
☞ Bulls Eye Wheat Brown Middlings and Screenings							☞
G. W. Bowling & Son, Catlettsburg, Kentucky	G. W. Bowling & Son, Catlettsburg	8.00	7.20	3.50	3.70	8.00	6.00
☞ Crushed Ear Corn							☞
The Brode Corp., Memphis, Tennessee	G. M. Haycraft & Son, Leitchfield	41.00	41.80	5.00	5.50	10.00	9.50
☞ Owl 41% Cottonseed Meal							☞
☞ Owl 41% Cottonseed Meal	Stockyard Feed Store, Louisville	41.00	40.20	5.00	5.70	10.00	6.90
Browder Milling Co., Inc., Fulton, Kentucky	Youngblood Bros., Mayfield	16.00	14.10	3.75	3.70	7.00	6.30
☞ Hog's Delight 16% Hog Feed							☞
Bryants Mill, Caneyville, Kentucky	Bryants Mill, Caneyville	20.00	18.30	4.00	4.50	7.00	6.90
☞ Bryants 20% Laying Mash							☞
☞ Kentucky Farm 16% Dairy Feed	Bryants Mill, Caneyville	16.00	16.90	4.00	4.10	10.00	8.90
☞ Kentucky Farm 18% Hog Feed	Bryants Mill, Caneyville	18.00	17.40	3.50	5.00	7.00	6.10
The Buckeye Cotton Oil Co., Cincinnati, Ohio	Hodgenville Roller Mills, Hodgenville	41.00	44.50	3.50	4.20	7.00	5.40
☞ Buckeye 41% Soybean Oil Meal							☞
Buhner & Co., Louisville, Kentucky	Lynn Flood, Finchville	20.00	22.10	3.50	5.30	7.00	8.50
☞ Magnolia 20% Laying Mash							☞
☞ Magnolia 24% Dairy Feed	Rizer Brothers, Bardstown	24.00	25.40	3.50	3.70	12.00	11.40
☞ Happy Farmer 20% Dairy Feed	Lowery & Crabtree, Glasgow	20.00	21.60	3.50	4.60	12.00	10.70
☞ Buhner Special White Tag 16% Dairy Feed	Cook & Moore, Tompkinsville	16.00	16.80	3.50	3.90	15.00	12.20
☞ Buhner's Special Wheat Bran	Gibson Produce, Monticello	15.00	15.30	3.75	4.10	10.00	10.40

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS		
Cadick Milling Co., Grandview, Indiana	Cadicks Gold Dust 40% Hog Supplement	40.00	4.50	9.50	7.50	Very low in protein. Misbranded.	
	C. C. Hardware, Feed & Seed Co., Hartford	36.60	4.50	9.50	7.50		
Calhoun Sweet Feed Co., Calhoun, Kentucky	Golden Rule 18% Laying Mash	18.00	4.00	4.50	5.50	4.20	Very low in protein. Misbranded.
	Calhoun Sweet Feed Co., Calhoun	15.60	4.00	4.50	5.50	4.20	
Campbells Feed Store, Lexington, Kentucky	Campbells 24% Dairy Feed	24.00	3.50	3.90	12.00	10.90	
	R. J. Jones, Tyner	26.50	3.50	3.90	12.00	10.90	
Carnation Co., Milwaukee, Wisconsin	Friskies 24% Dog Feed	24.00	4.50	4.60	4.00	3.80	
	Wyndalls Feed & Hardware Store, Owensboro	24.00	4.50	4.60	4.00	3.80	
Friskies 24% Dog Feed (Meal Form)	West Ninth St. Mill, Owensboro	24.00	4.50	5.40	4.00	4.40	
	Edmonson Farmers Co- operative, Brownsville	44.00	.50	.85	7.00	5.30	
Central Soya Co., Fort Wayne, Indiana	Central Star 44% Soybean Oil Meal	41.00	44.90	4.50	7.00	5.60	
	Greenwells Feed Store, Lebanon	41.00	44.90	4.50	7.00	5.60	
Clifty Falls Mills, Inc., Madison, Indiana	Clifty Falls 20% Egg Mash	20.00	3.50	3.80	7.00	7.50	
	Clifty Falls 20% Egg Mash Taylorville	20.00	3.50	3.80	7.00	6.80	
Clifty Falls 24% Dairy Feed	R. J. Jones, Tyner	24.00	3.50	2.80	10.00	9.00	
	R. J. Jones, Tyner	24.00	3.50	2.80	10.00	9.00	
Clinton Hatchery, Clinton, Kentucky	New Deal 17% Cow Feed	17.00	3.75	4.40	10.00	9.40	Adulterated with screen- ings refuse. Misbranded.
	Clinton Hatchery, Clinton	17.00	3.75	4.40	10.00	9.40	
Clinton Milling Co., Inc., Clinton, Kentucky	None Better 18% Laying Mash	18.00	4.00	4.40	6.00	5.80	
	Clinton Milling Co., Inc., Clinton	17.70	4.00	4.40	6.00	5.80	

Climco 16% Dairy Feed	Clinton Milling Co., Inc., Clinton	16.00	18.20	3.50	4.00	13.00	11.50
Tennessee Special 16% Dairy Feed	Campbell's Mill, Kevil	16.00	14.10	3.50	3.70	13.00	8.70
Columbus Milling Co., Columbus, Indiana	Porter & Farman, London	10.00	10.00	7.00	5.60	5.00	3.40
The G. E. Conkey Co., Cleveland, Ohio	Campbell's Mill, Kevil	16.00	16.80	3.50	3.00	13.00	7.90
Conkey's Special 16% Feed	Yopp Seed Co., Paducah	17.00	19.80	3.00	4.40	10.00	11.60
Conkey's Y-O 17% Rabbit Feed							
Cooperative Mills, Inc., Cincinnati, Ohio	Southern States Co- operative, Georgetown	20.00	20.80	3.50	4.60	8.00	7.40
Super 20% Laying Mash							
Milk Maker 32% Dairy Supplement	W. C. Turner, Greensburg	32.00	33.20	4.00	4.90	10.00	8.00
24% Dairy Feed	Whitesburg Farm Service, Whitesburg	24.00	26.10	3.50	3.20	12.00	10.60
16% Dairy Feed	Southern States Co- operative, Newport	16.00	19.10	3.50	3.90	15.00	9.40
Milk Maker 16% Dairy Feed	Anderson Ice Co., Lawrenceburg	16.00	19.60	4.00	4.50	10.00	7.20
Pork Maker 35% Hog Supplement	Southern States Co- operative, Bardstown	35.00	35.70	3.00	4.80	8.50	8.40
16% Pig and Hog Feed	Southern States Co- operative, Glasgow	16.00	16.40	3.50	4.30	6.50	6.50
16% Pig and Hog Feed	Farmers Cash Store, Liberty	16.00	16.50	3.50	4.40	6.50	6.60
16% Pig and Hog Feed	H. T. White, Tompkinsville	16.00	17.90	3.50	4.70	6.50	6.90
41% Soybean Oil Meal	Southern States Co- operative, Harrodsburg	41.00	43.60	4.50	4.10	7.00	7.20
Wheat Red Dog	R. R. Boggs, Blaine	16.00	15.70	4.00	3.60	4.00	2.70
17% Dehydrated Alfalfa Meal	Harlan Farmers Supply, Harlan	17.00	15.70	1.50	2.70	27.50	27.80
Decatur Milling Co., Decatur, Illinois	W. C. Turner, Greensburg	10.00	10.00	7.00	8.90	6.00	4.90
Homco Hominy Feed							
Dewey Bros. Co., Blanchester, Ohio	Sandy Valley Produce, Prestonsburg	18.00	19.60	3.50	4.40	8.00	6.80
Dewco 18% Egg Mash	The New Grocery, Hellier	24.00	24.30	3.50	3.80	12.00	10.70
Dewco 24% Dairy Feed							

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS		
Dewey Bros. Co., Blanchester, Ohio—Cont.							
Dewey 24% Dairy Ration	Cash & Carry Market, Flemingsburg	24.00	4.00	10.00	8.70		
Dewco 18% Dairy Feed	Faulkner's Supermarket, Pikeville	18.00	3.50	13.00	11.30		
Dewco 15% Pig and Hog Feed	Jackson Wholesale Co., Praise	15.00	3.50	7.00	8.00		
Wheat Gray Shorts and Screenings	Faulkner's Supermarket, Pikeville	16.00	4.00	6.00	5.60		
Wheat Gray Shorts and Screenings	Sandy Valley Produce, Prestonsburg	16.00	4.00	6.00	6.60		
Dixie Mills Co., East St. Louis, Illinois							
Dixie 15% Hog Fattener	The Chappell Grocery, Pineville	15.00	4.00	7.00	6.20		
The Early & Daniel Co., Cincinnati, Ohio							
Tuxedo Special 20% Dairy Feed	George P. Taylor Co., Burnside	20.00	3.50	12.00	11.40		
Tuxedo Special 16% Dairy Feed	Morrison Produce & Feed Co., Elizabethtown	16.00	3.50	14.00	11.80		
34% Linseed Oil Meal	Elkins & Rose, Stillwater	34.00	6.00	4.50	9.30		
Tuxedo Chop	W. C. Dulin Feed Store, Taylorsville	9.50	3.00	9.00	8.50		
Tuxedo Chop	R. L. Stearns Wholesale, Stearns	9.50	3.00	4.40	8.90		
John W. Eshelman & Sons, Lancaster, Pennsylvania							
Eshelman Red Rose 24% Dairy Feed	Central Grocery, Prestonsburg	24.00	4.00	4.40	11.00	8.10	
Eshelman Challenge 24% Dairy Feed	Central Grocery, Prestonsburg	24.00	4.00	3.60	11.00	13.40	Very high in fiber.
Eshelman Conestoga 20% Dairy Feed	Monarch Milling Co., Mt. Sterling	20.00	4.00	5.90	11.00	10.00	Adulterated with about 45,400 unground weed seeds per 100 lbs.
Eshelman Pennsy 16% Dairy Feed	Lewis Wholesale Co., Whitesburg	16.00	3.50	4.70	11.00	12.50	Adulterated with oat hulls.

Evans Milling Co., Indianapolis, Indiana	E. L. Garner, Albany	10.00	10.50	7.00	6.50	6.00	4.60	
Emco Hominy Feed								
Ewing Mill Co., Ewing, Indiana	Stout Feed Store, Mt. Washington	16.00	16.00	3.50	2.70	15.00	5.80	
Robertson 16% Dairy Feed	Anderson Ice Co., Lawrenceburg	16.00	16.00	3.50	3.80	15.00	10.60	
Robertson 16% Dairy Feed	Southern States Co-operative, Leitchfield	14.50	15.00	3.50	3.00	3.50	3.40	
Robertson Wheat Red Dog	Farmers Supply Co., Paintsville	15.50	14.70	4.00	3.20	8.50	7.10	
Robertson's Wheat Mixed Feed and Screenings								
Exchange Milling Co., Sturgis, Kentucky	Maddox Grocery, Kuttawa	9.75	8.50	4.00	7.20	3.50	2.40	
Smith's Special Chicken Feed	Daves Feed Store, Providence	18.00	16.00	4.00	5.20	7.00	5.70	
Smith's 18% Special Hog Feed								
Famous Feed Mills, Nashville, Tennessee	Seay Brothers, Holland	41.00	40.70	5.00	7.30	12.00	11.60	
41% Cottonseed Meal								
Farmers Feed Store, Lexington, Kentucky	Leatherwood Wholesale, Cornettsville	24.00	24.30	4.50	5.00	11.00	10.90	
Farmers Best 24% Dairy Feed	Oscar McKenzie, West Liberty	18.00	17.10	4.00	5.50	7.00	8.00	
Farmers Special 18% Hog Feed								
Farmers Milling Co., Somerset, Kentucky	Farmers Milling Co., Somerset	12.25	9.80	3.25	3.50	8.00	12.80	Adulterated with oat hulls. Excess filler. Very low in protein. Very high in fiber. Misbranded.
Farmers XX Stock Feed	Apple Tree Grocery, Stearns	12.25	9.60	3.25	3.10	8.00	14.60	Adulterated with oat hulls. Excess filler. Very low in protein. Very high in fiber. Misbranded.
Farmers XX Stock Feed	Cooks Grocery & Feed Store, Whitley City	12.25	10.10	3.25	2.90	8.00	13.50	Adulterated with oat hull feed. Very low in protein. Very high in fiber. Misbranded.
Scratch Feed	A. D. Long, Pine Knot	10.00	8.60	3.00	3.00	3.00	2.60	Adulterated with corn cockle.

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS		
Ferncliff Feed & Grain Co., Louisville, Kentucky	London Grocery, London	24.00	3.50	4.30	15.00	11.40	
Ferncliff 24% Dairy Ration							
Flambeau Milling Co., Phillips, Wisconsin	Whitley Wholesale Co., Corbin	16.00	3.50	4.60	13.00	13.50	Adulterated with screen- ings refuse. Misbranded.
Flambo 16% Southland Dairy Feed	Wills Mill, La Center	16.00	3.50	5.90	13.00	11.70	Excess screenings. Mis- branded.
Flambo 16% Southland Dairy Feed	Myers & Elkins Grocery, Benton	16.00	3.50	5.70	13.00	12.40	Adulterated with screen- ings refuse. Misbranded.
Flambo Horse and Mule Feed	Monarch Milling Co., Mt. Sterling	10.00	3.00	3.70	12.00	9.90	
Henry Fruechtenicht, Inc., Louisville, Kentucky	Jellico Grocery, Harlan	24.00	4.00	3.70	12.00	7.50	
Blue Grass 24% Dairy Feed							
Producer 16% Dairy Feed	Bale Hardware & Imple- ment Co., Horse Cave	16.00	3.50	3.70	15.00	10.80	Very low in protein.
Garden Street Mill & Elevator Co., Louisville, Kentucky	Kenneth Cundiff, Columbia	16.00	3.50	3.70	15.00	11.70	Adulterated with about 50,000 unground weed seeds per 100 lbs.
Garden Special 16% Dairy Feed							
Garden Special 16% Dairy Feed	Thomas Buchanan, Rockholds	16.00	3.50	4.50	15.00	14.50	
The J. I. Gates Milling Co., Columbus, Ohio	Wilson Brothers, Vanceburg	15.00	3.00	3.90	12.50	9.60	
Economy 15% Hog Feed							
General Mills, Inc., Minneapolis, Minnesota	Russcoe Morris Feed Store, Somerset	15.50	4.00	4.90	8.50	7.60	
Sonny South Wheat Mixed Feed	The Cecilian Milling Co., Elizabethtown	14.50	3.75	3.90	10.00	10.00	
Sonny South Wheat Bran							

Edward F. Goeke Sons, Evansville, Indiana Eggo 18% Egg Mash	Hoagland's Hardware, Sacramento	18.00	19.00	3.50	4.60	7.50	6.80	
Goldcamp Mill Co., Ironton, Ohio Cream Flour 24% Dairy Feed	Arthur & Riggs, Flatwoods	24.00	25.20	3.50	4.30	10.00	9.00	Adulterated with about 45,000 unground weed seeds per 100 lbs.
Farm Feed	H. B. Calvin, Raceland	14.00	10.30	4.50	5.50	8.50	3.70	Very low in protein. Misbranded.
Grayson Milling Co., Grayson, Kentucky Ground Wheat	Grayson Milling Co., Grayson	12.00	12.00	2.00	1.70	3.00	3.40	
Corn By-Product Feed	Faulkner's Supermarket, Pikeville	10.00	10.00	6.00	5.50	6.00	4.20	
Green River Feed Co., South Carrollton, Kentucky Green River 60% Grain Horse and Mule Feed	D. & M. Feed Store, Central City	9.00	9.80	3.00	3.50	8.00	8.60	Adulterated with about 50,000 unground weed seeds per 100 lbs.
Gwinn Bros. & Co., Huntington, West Virginia Gwinn's Pioneer 18% Laying Mash	V. L. Pelphey, Paintsville	18.00	18.70	3.50	4.70	8.00	10.10	Very high in fiber.
Gwinn's 18% Pig and Hog Feed	Gwinn Bros. & Co., Paintsville	18.00	18.10	3.50	4.70	7.00	6.80	
Hales & Hunter Co., Chicago, Illinois Red Comb 13% Crate Fattener	Jasper Produce, Science Hill	13.00	16.50	4.00	4.50	7.00	6.20	
Red Comb 13% Crate Fattener	Madison Hatchery, Richmond	13.00	14.90	4.00	3.60	7.00	6.10	
Red Comb 13% Crate Fattener	Herron Produce Co., London	13.00	15.20	4.00	3.20	7.00	6.20	
Pioneer 18% Dairy Feed	E. J. Vanhook, Moreland	18.00	21.10	3.50	5.00	9.00	8.70	
Pioneer 18% Dairy Feed	Walker Greer, Camargo	18.00	22.70	3.50	5.60	9.00	7.90	
O. L. Harper, Ironton, Ohio Standard Feed	Homer Bays, Greenup	13.00	15.40	4.00	4.10	9.00	6.00	

Champion Markitop 15% Hog Ration	C. A. Childers, Morgantown	15.00	15.70	3.50	5.00	5.50	5.50
Happy Home Wheat Gray Shorts and Screenings	Prince Hardware Co., Eddyville	16.00	15.70	4.00	4.50	6.00	5.70
Hopkinsville Milling Co., Hopkinsville, Kentucky Sunflower 26% Dairy Feed	H. T. Adcock General Merchandise, Nortonville	26.00	27.20	4.00	4.60	10.00	9.70
Igleheart Brothers, Inc., Clarksville, Tennessee Challenger 20% Laying Mash	Farmers Feed Market, Bowling Green	20.00	21.70	4.00	3.70	7.00	7.40
Challenger 32% Dairy Supplement	McCarley and Richardson, Russellville	32.00	35.00	3.50	4.10	14.00	9.90
Challenger 40% Hog Supplement	Robert James Feed Co., Franklin	40.00	41.00	4.00	4.30	7.00	7.00
Illinois Cereal Mills, Paris, Illinois Hominy Feed	Sunshine Feed Store, Louisville	10.00	10.20	7.00	6.60	5.00	5.30
Ismert-Hincke Milling Co., Kansas City, Missouri Oracle Wheat Gray Shorts and Screenings	Hardin County Milling Co., Elizabethtown	16.00	17.40	4.00	7.00	6.00	6.00
Oracle Wheat Gray Shorts and Screenings	L. B. Coleman & Son, Pikeville	16.00	17.40	4.00	4.90	6.00	6.20
Jackson Cotton Oil Mill, Jackson, Tennessee Bell Cow 41% Cottonseed Meal	Horse Cave Mills, Horse Cave	41.00	40.50	5.00	5.50	12.00	12.00
Jasper Milling Co., Science Hill, Kentucky Jasper's Wheat Mixed Feed and Screenings	R. C. Taylor, Monticello	15.50	14.50	4.00	3.60	8.50	6.20
Joy Milling Co., Elkton, Kentucky Mixed Feed	Joy Milling Co., Elkton	11.00	11.40	3.00	2.60	6.00	4.30
Keco Milling Co., McKenzie, Tennessee Keco Horse Feed	U-Tote-Em Grocery, Clinton	9.00	10.00	3.00	4.70	12.00	10.40

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS	
Kentucky Animal By-Products Co., Russellville, Kentucky	Supreme Feed Mills, Glasgow	55.00	6.00	13.80	3.00	1.60
Kentucky Chemical Industries, Cincinnati, Ohio	Sandy Valley Grocery, Paintsville	24.00	3.50	4.60	12.00	10.60
Big "V" 24% Dairy Feed	Merchants Grocery, Pikeville	18.00	3.50	4.70	7.00	7.10
Provico 18% Pig and Hog Feed						
Kentucky Cotton & Grain Co., Hickman, Kentucky	Kentucky Cotton & Grain Co., Hickman	18.00	3.50	5.90	8.00	5.50
Chowmix 18% Laying Mash						
Kentucky 40% Hog Supplement	Kentucky Cotton & Grain Co., Hickman	40.00	4.00	8.00	7.00	8.80
Kentucky 18% Pig and Sow Ration	Kentucky Cotton & Grain Co., Hickman	18.00	3.50	5.00	7.00	6.90
F. W. Kibler Milling Co., Mt. Orab, Ohio	Rankin Hatchery, Flemingsburg	22.00	4.00	5.00	6.00	6.70
Kibler 22% Turkey Grower						
Kittrell Grain & Feed Co., Nashville, Tennessee	W. I. Wyatt Feed Store, Madisonville	16.00	3.50	3.10	15.00	17.50
O.K. 16% Dairy Feed						Very high in fiber. Mis- branded.
The Kroger Grocery & Baking Co., Cincinnati, Ohio	Kroger Grocery #97, Paducah	17.00	3.50	4.50	7.00	6.80
Kroger 17% Starting and Growing Mash	Kroger Grocery #97, Paducah	20.00	3.50	3.50	7.00	6.60
Kroger 20% Egg Mash	Kroger Grocery #2299, Lawrenceburg	16.00	3.50	4.40	12.00	8.90
Kroger's 16% Dairy Feed						
The Larabee Flour Mills Co., Kansas City, Missouri	Warren County Mills, Bowling Green	15.00	3.75	4.90	10.00	9.90
Sunfed Winter Wheat Bran and Screenings						

Laswell Milling Co., Brodhead, Kentucky	Wheat Mixed Feed	16.00	14.10	4.25	4.10	8.50	5.60
Lauhoff Grain Company, Danville, Illinois	Vermilion Hominy Feed	10.00	10.60	7.00	5.90	6.00	3.90
Goodloe Lawson Seed Co., Harrodsburg	True Blue 14% Stock Feed	14.00	14.70	3.50	3.30	8.00	8.10
Lewisburg Roller Mills, Lewisburg	Coon Range 13% Pork Maker	13.00	14.30	3.50	3.60	6.00	5.60
Lewisport Milling Co., Lewisport	Farmers Choice Feed	14.00	15.60	4.20	4.00	9.00	6.80
Lexington Roller Mills, Inc., Lexington, Kentucky	Kentucky Queen 20% Double X Egg Mash	20.00	20.40	4.00	5.10	6.00	5.80
	Bossie Stock Feed	13.00	13.00	4.00	3.30	7.00	6.10
Loretto Mill Co., Loretto, Kentucky	Wheat Mixed Feed and Screenings	15.50	13.40	4.00	2.70	8.50	4.00
The Loudonville Milling Co., Loudonville, Ohio	Le Grande Soft Winter Wheat Brown Middlings	16.00	13.70	4.00	3.70	7.50	7.60
Louisa Supply Company, Inc., Louisa, Kentucky	Louisa Standard Feed	12.50	11.10	4.50	4.70	7.50	5.80

Very low in protein.
Excess screenings. Mis-
branded.

Very low in protein.
Misbranded.

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS		
McGinnis Co., Huntington, West Virginia	Kelleys Grocery, Burdine	16.00	3.50	6.20	15.00	11.00	
Milk More 16% Dairy Feed							
McMillen Feed Mills, Fort Wayne, Indiana	Hodder & Ruppert, Burlington	32.00	1.50	3.80	9.00	6.90	
Master Mix M-V 32% Protein and Mineral Chick Supplement							
	Calcium Guar. Fnd.	2.50	4.80				
	Phosphorus Guar. Fnd.	.85	1.16		1.80	3.20	Very much above guar- antee in salt. Mis- branded.
	Iodine Guar. Fnd.	.002					
	Salt Guar. Fnd.						
Marianna Sales Company, Memphis, Tennessee	Farmers Cash Store, Liberty	41.00	45.50	3.50	4.00	7.00	6.60
White Mule 41% Soybean Oil Meal							
Mayfield Milling Co., Mayfield, Kentucky	Mayfield Milling Co., Mayfield	20.00	19.90	3.50	4.00	10.00	7.30
Jersey Cream 20% Dairy Feed							
Meeks Feed Mill, Joppa, Illinois	Earl Ward's Mill, Paducah	16.00	15.00	3.50	2.90	15.00	13.10
Mix Rite 16% Dairy Feed	Floyd Harralson Feed Store, Paducah	20.00	19.00	3.50	5.80	7.00	8.20
Mix-Rite 20% Pig and Sow Feed							Adulterated with ground screenings.
The Mennel Milling Co., Toledo, Ohio	Walter Conley, Oil Springs	16.00	14.40	4.00	3.10	6.00	4.10
Memo Wheat Gray Middlings and Screenings							
Middlesboro Milling Co., Middlesboro, Kentucky	Middlesboro Milling Co., Middlesboro	24.00	22.80	4.50	5.10	12.00	10.90
Reliable 24% Dairy Feed	Fields Grain & Feed Co., Cumberland	13.00	13.60	3.50	4.00	8.00	5.30
Hard to Beat Feed							

Milliken Sweet Feed Mill, Franklin, Kentucky	Milliken Sweet Feed Mill, Franklin	20.00	20.00	3.50	4.60	7.00	6.20
Hunt's Extra-Fine 20% Laying Mash	Milliken Sweet Feed Mill, Franklin	16.00	16.90	3.50	4.20	12.00	10.80
Hunt's Extra-Fine 16% Dairy Feed	E. W. James Feed & Pro- duce Co., Hickman	8.50	7.90	3.00	3.10	3.00	2.50
Miner Feed Mill, Sikeston, Missouri	Monarch Milling Co., Mt. Sterling	14.00	13.20	4.00	2.70	8.00	7.30
Screened Corn Chops	Roscoe Morris, Somerset	17.00	19.50	3.50	5.90	6.00	5.10
Monarch Milling Co., Mt. Sterling Kentucky	Mountain City Mill Co., Chattanooga, Tennessee	16.00	15.70	3.50	6.50	8.00	7.80
Mixed Feed	Blue Cow 16% Dairy Feed	16.00	14.50	3.50	4.40	8.00	9.50
Roscoe Morris, Somerset, Kentucky	Blue Cow 16% Dairy Feed	16.00	14.50	3.50	4.40	8.00	9.50
Roscoe 17% Hog Fattener Feed	Jellico Grocery, Barbourville	16.00	15.70	3.50	6.50	8.00	7.80
Mountain City Mill Co., Chattanooga, Tennessee	Taner & Wakin, Middlesboro	16.00	14.50	3.50	4.40	8.00	9.50
Blue Cow 16% Dairy Feed	Padgett's Feed Store, Sullivan	10.00	11.60	7.00	7.90	6.00	5.10
Blue Cow 16% Dairy Feed	Murphy Grain & Milling Co., Owensboro	23.00	22.80	3.50	5.20	7.00	5.60
Mt. Vernon Milling Co., Mt. Vernon, Indiana	A. L. Hazle, Hodgenville	10.00	9.50	7.00	6.00	6.00	6.10
Poco Hominy Feed	Airolite Hominy Feed						
Murphy Grain & Milling Co., Owensboro, Kentucky							
Airolite 23% Pig and Hog Feed							
Airolite Hominy Feed							

Adulterated with screenings refuse and about 30,000 unground weed seeds per 100 lbs. Misbranded.

Adulterated with screenings refuse and about 45,000 unground weed seeds per 100 lbs. Misbranded.

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS	
Myers & Clark Co., Ashland, Kentucky	Blair Wholesale Grocery, West Liberty	16.00	3.50	15.00	13.00	Adulterated with ground screenings and about 500,000 unground weed seeds per 100 lbs. Misbranded.
	Ideal 17% Hog and Pig Feed	17.00	3.50	7.00	7.10	
	R. Butler, Blaine	16.00	4.30	6.00	7.00	
National Milling, Branch of National Biscuit Co., Toledo, Ohio	The Farmers Store, Olive Hill	16.00	4.00	4.30	7.00	
Namico Wheat Gray Middlings and Screenings						
National Oats Co., East St. Louis, Illinois	Dairyman Feed & Supply Co., Mayfield	18.00	3.50	8.00	6.70	
Nutro 18% Egg Mash	The Auburn Mills, Auburn	18.00	3.50	8.00	5.90	
Corno 18% Laying Mash	N. Y. Landrum, Bowling Green	9.50	2.50	15.00	14.60	
Corno 9.5% Premium Feed						
The New Era Milling Co., Arkansas City, Kansas	Watkins Wholesale Grocery, East Bernstadt	16.00	4.00	6.00	6.60	
Polar Bear Wheat Gray Shorts and Screenings						
Polar Bear Wheat Mixed Feed and Screenings	Marcum Grocery Co., Campbellsville	15.50	3.50	8.50	7.70	
Chas. Nunn & Sons Milling Co., Evansville, Indiana	Morganfield Hardware Co., Morganfield	16.00	4.00	6.00	5.20	
Banner 16% Poultry All-Mash						
Odon Milling Co., Odon, Indiana	Woodford Feed Co., Versailles	18.00	3.50	7.50	6.80	Adulterated with screenings and about 50,000 unground weed seeds per 100 lbs. Misbranded.
Magic 18% Egg Mash						

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS	
Pillsbury Mills, Inc., Clinton, Iowa	Mrs. Raymond Norris,	16.00	3.50	3.70	12.00	9.60
Pillsbury's 16% Dairy Feed	McKee					
Poole Milling Co., Poole, Kentucky	Yates Feed Store,	8.00	3.50	2.50	3.00	2.30
Screened Cracked Corn	Madisonville					
Pratt Food Co., Hammond, Indiana	Carters' Supply Co.,	20.00	3.50	4.00	7.50	7.70
Pratts 20% Laying Mash	Forks of Elkhorn					
The Quaker Oats Co., Chicago, Illinois	J. W. Settle Feed Store,	20.00	3.50	4.40	8.00	8.10
Big Egg 20% Laying Mash	Frankfort					
Ful-O-Pep 20% Laying Mash	Frank J. Murphy,	20.00	3.50	5.20	8.00	6.70
	Valley Station	20.00	4.00	4.80	6.00	7.30
Ful-O-Pep 19% Broiler Mash	London Grocery, London	19.00	3.50	4.40	11.00	8.20
Ful-O-Pep 16% Dairy Feed	Rizer Brothers, Bardstown	16.00	3.00	4.00	12.00	10.90
Quaker Schumacker Sweet Feed	Cook and Moore,	10.00	3.00	3.00	12.00	10.10
	Tompkinsville					
Quaker Schumacker Sweet Feed	D. G. Hayes Grocery Co.,	10.00	3.00	3.00	12.00	10.10
	Leitchfield					
Quaker Oat Hull Feed and Molasses	Bales Hardware Co.,	3.00	1.00	1.30	26.00	24.50
	Horse Cave					
Ralston Purina Company, St. Louis, Missouri	International Harvester	15.50	4.00	4.10	7.00	6.30
Purina Layena 15½% All-Mash	Co., Benham					
Purina Lay Chow 20% Laying Mash	Barnes Produce Co.,	20.00	3.50	4.70	8.00	7.90
	Bardstown					
Purina 14% Chicken Fattener	Clell Coleman & Sons,	14.00	4.00	4.60	6.00	6.70
	Harrodsburg					
Purina Cow Chow 32% Dairy Supplement	Goodman Brothers & Co.,	32.00	3.50	4.60	9.00	7.00
	Shelbyville					
Purina Cow Chow 18% Dairy Feed	Lawson's Food Market,	18.00	3.50	4.30	10.00	11.60
	Whitley City					
Purina Cow Chow 18% Dairy Feed	Farmers Supply Co.,	18.00	3.50	4.30	10.00	11.40
	Whitesburg					

Purina Milk Chow 16% Dairy Feed	Columbia Building & Supply Co., Columbia	16.00	16.50	3.50	3.70	10.00	11.70	
Purina Chow 12½% Dry and Freshening Feed	Sam Namm Co., Bowling Green	12.50	13.30	2.00	3.60	14.00	10.80	
Purina 21% Dog Chow Kibbled Meal	Princeton Milling Co., Princeton	21.00	27.00	4.00	5.00	6.00	4.10	
Randolph Milling Co., Bandana, Kentucky Must Lay 20% Laying Mash	Randolph Milling Co., Bandana	20.00	16.10	4.00	4.40	7.00	4.00	Very low in protein. Misbranded.
Nu-Joy 16% Dairy Feed	Randolph Milling Co., Bandana	16.00	14.40	3.50	3.40	10.00	7.10	
19% Hog Fattener and Grower	Randolph Milling Co., Bandana	19.00	18.60	4.80	5.40	7.00	4.20	
Robbins Brothers, Auburn, Kentucky Corn By-Product Feed	Ideal Hardware Co., Glasgow	10.80	10.60	9.00	7.50	8.30	5.90	
Ross Feed Co., Murray, Kentucky Wheat Mixed Feed	Sunshine Stores, Paducah	15.50	16.00	4.00	4.70	8.50	7.90	Adulterated with ground screenings.
Russell-Miller Milling Co., Minneapolis, Minnesota Sunburst 18% Laying Mash	Allen County Mill Co., Scottsville	18.00	20.40	3.80	4.00	8.00	8.00	
Sunburst 18% Laying Mash	Hickman County Feed Mill, Clinton	18.00	19.20	3.80	3.90	8.00	8.00	
Sunburst 18% Laying Mash	Gill and Jennings, Russellville	18.00	18.50	3.80	3.60	8.00	7.50	
Occident 16% Dairy Feed	Yopp Seed Co., Paducah	16.00	18.10	3.50	6.60	14.00	10.70	
Occident 40% Hog Supplement	Hickman County Feed Mill, Clinton	40.00	39.60	3.00	6.10	9.00	6.70	
Occident 40% Hog Supplement	Gill and Jennings, Russellville	40.00	39.10	3.00	5.40	9.00	7.60	
Occident 20% Pig and Sow Feed	Yopp Seed Co., Paducah	20.00	21.00	4.00	4.00	7.00	6.80	
Sunburst 16% Pig and Hog Feed	Harrison Seed Co., Owensboro	16.00	16.50	3.50	3.40	7.00	7.60	
Salt Lick Milling Co., Salt Lick, Kentucky Perfect X Mixed Feed	Denton Mercantile Co., Hillsboro	14.75	14.20	4.00	3.70	8.00	6.70	

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN		FAT		FIBER		REMARKS	
		Guar. Fnd.	Fnd.	Guar. Fnd.	Fnd.	Guar. Fnd.	Fnd.		
Sandusky Brothers, Harrodsburg, Kentucky	Mixed Feed	Sandusky Brothers, Harrodsburg	15.45	14.30	4.25	4.60	8.45	7.90	
		Sandusky Brothers, Harrodsburg	15.45	14.70	4.25	4.10	8.45	7.70	Adulterated with about 10,000 unground weed seeds per 100 lbs. Mis- branded.
Schultz, Baujan & Co., Beardstown, Illinois	Critic 13% Poultry Fattener	Louisa Supply Co., Louisa	13.00	15.10	4.50	5.10	6.00	5.30	
The Scott County Milling Co., Sikeston, Missouri	Semo 18% Laying Mash	Murray Hatchery, Murray	18.00	17.20	3.50	3.80	8.00	5.70	
Gristo Wheat Gray Shorts and Screenings		Murray Hatchery, Murray	16.00	15.40	4.00	3.90	6.00	6.30	Excess screenings. In- ferior grade of screen- ings.
J. Allen Smith & Co., Knoxville, Tennessee	Peerless Feed	J. L. Henry & Son, Cumberland	14.50	14.50	3.50	4.40	8.50	6.10	
Southern States Cooperative, Flemingsburg, Kentucky	Ground Wheat	Southern States Co-op., Flemingsburg	12.00	11.00	2.00	1.60	3.00	2.70	
Woodford Spears & Sons, Paris, Kentucky	Bourbon 18% Dairy Feed	Woodford Spears & Sons, Paris	18.00	19.40	4.00	3.10	13.00	7.20	
The Geo. T. Stagg Co., Frankfort, Kentucky	26% Distillers Dried Grains	Benson Valley Milling Co., Frankfort	26.00	25.10	7.50	11.40	13.00	10.80	
Standard Feed Milling Co., Atlanta, Georgia	Domino 16% Dairy Feed	Blackey Supply Co., Blackey	16.00	16.80	3.50	5.80	13.50	8.00	

MANUFACTURER AND BRAND	SAMPLE TAKEN FROM—	PROTEIN Guar. Fnd.	FAT Guar. Fnd.	FIBER Guar. Fnd.	REMARKS	
Sweet Feed Mills, Bowling Green, Kentucky	Sweet Feed Mills, Bowling Green	24.00	3.50	3.00	15.00	8.50
Ace 24% Dairy Feed						
Sweet Feeds, Henderson, Kentucky	Sweet Feeds, Henderson	40.00	5.00	6.10	8.00	6.60
Sweet Mix 40% Hog Supplement						
Sweet Mix 16% All-Mash Laying Ration	Floyd Harralson Feed Store, Paducah	16.00	4.50	4.80	5.00	5.90
Swift & Co. Soybean Mills, Cairo, Illinois	Sun-Ray Feed Mills, Bowling Green	43.00	3.50	5.00	7.00	5.90
Swift's 43% Soybean Oil Meal						
Tell City Flouring Mills, Tell City, Indiana	Bondurants' Store, Brandenburg	12.00	3.50	3.40	14.00	10.90
Hoosier Special 12% Mixed Feed						Adulterated with oat hull feed and stemmy alfalfa meal. Mis- branded.
Thomson's Mill, Madisonville, Kentucky	Watson Coal & Feed Co., Princeton	10.00	3.20	3.90	10.00	6.40
Eighty-Five Horse and Mule Feed						
Tilford & Walters, Metropolis, Illinois	Birmingham Milling Co., Benton	18.00	3.50	3.90	7.00	7.40
J & J 18% Laying Mash						
J & J 16% Dairy Feed	Wilson Feed & Produce, Smithland	16.00	3.50	6.30	15.00	13.30
Topeka Flour Mills Corp., Salina, Kansas	Jack's Market, West Somerset	17.00	4.00	5.00	6.00	6.40
"K-Y" Wheat Gray Shorts						
Ubiko Milling Co., Cincinnati, Ohio	Keller Hay & Grain Co., Newport	20.00	3.50	4.90	8.00	7.10
Life Guard 20% Layer						

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