

Kentucky Agricultural Experiment Station

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COMMERCIAL FEEDS IN KENTUCKY IN 1939

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The quality of commercial feeds on sale in the State in 1939 generally was high, tho many irregularities were found as shown by analyses of the samples collected. Users of commercial feeds are becoming better acquainted with the feed control service and are making more use of it as they understand the protection and service it gives. They know that the Feed Control Department of the Experiment Station, from many years of experience, is familiar with the practices, good and bad, of most of the manufacturers doing business in the State. The honest and progressive manufacturer has come to realize his responsibility to the livestock industry because his business depends very definitely upon how it is translated into service to this industry. This responsibility necessarily impels him

* Died May 4, 1940.

to not only exercise due intelligence but honesty as well in the manufacture and sale of reliable and productive feeds, if his business is to prosper.

COMMERCIAL FEED AND LIVESTOCK INDUSTRIES

The commercial feed industry and the livestock industry are definitely interdependent; the former cannot exist without the other and without commercial feeds the livestock industry would be greatly handicapped for lack of by-product materials to balance their rations; besides commercial mixed feed is a convenience and a time saver for which many a feeder is willing to pay. Their interests are mutual and their responsibilities one to the other are equally important and must be shared alike. The business of making commercial feeds has grown to large proportions. It involves a tremendous outlay of capital and along with this an ever-increasing responsibility to the livestock industry. It is a big business in which many kinds of business men are engaged. The organizations represented by most of these men are honest and conscientious, are making good, honest feeds and selling them on their quality and productiveness. Unfortunately there are some who produce nothing but cheap feeds, low in price and productiveness, and prey upon the unsuspecting feeder, as their unwholesome contribution to the industry. Some produce both kinds of feeds in order to meet competition.

Many of the larger and more progressive manufacturers have well-equipped laboratories with scientifically trained men to supervise them. These men are usually selected from agricultural colleges and experiment stations and are not only capable of following the fundamental research done by experiment stations and other laboratories but are conducting research under their own plans and procedures. Many of the small mills, while not able to equip and maintain laboratories, are doing a good job of making high-quality feeds because they use only standard products the values of which are well known. Most of the trouble in dealing with commercial feeds comes from manufacturers who have little, if any, regard for quality and

nutritional value of feeds. They make and sell inferior products with extravagant claims, to a class of feeders that can least afford to purchase unproductive feeds. Such manufacturers are a menace to the feed industry as well as to the livestock industry.

Another common practice in the commercial feed business that should not be condoned is making unwarranted claims through salesmen and advertising matter. Some advertisements go so far as to say that diagnosis of animal diseases will be made and their treatment will be prescribed by mail. Other claims are made of certain feeds as having preventive and curative properties of infectious animal diseases. Such claims are not only unwarranted but dangerous to the livestock industry and the practice should be condemned by reputable manufacturers and feeders alike. If animals are healthy they do not need drugs; if they are unhealthy or sick they need specific treatment by a veterinarian. There should be reasonableness about advertising and claims of manufacturers so that they will be respected as a medium of imparting the truth about feeds and their use.

The more alert and discriminating feeders understand these advertising claims and are not tempted and influenced by them, but the less experienced and unsuspecting ones are often deceived. Many feeders have become nonplused and confused and are skeptical of all feeds regardless of the producer. However, to the feeder, to a large degree, must be laid the responsibility for the irresponsible manufacturers who make low-grade, uneconomical feeds and feeds claimed to have preventive and curative properties for infectious diseases. Just so long as the feeder buys them on price alone, with no thought of quality, nutritive value and economic production, there will be manufacturers who will make for him just such feeds. If he will exercise due diligence in selecting his feeds, he will not only be assured of better results but will do a distinct service for the feed and livestock business in making for honesty and quality in feeds and a better livestock industry.

RESULTS OF INSPECTION AND ANALYSES IN 1939

The Feed Control Department analyzed chemically and microscopically during the year 1,412 samples of different classes of commercial feeds found on the Kentucky market. The results generally were encouraging but in some respects disappointing. It is noteworthy that the higher grades of special-purpose feeds, especially the poultry feeds, were more uniform in composition and quality than in previous years. While the higher grades of dairy feeds were very uniform in composition and quality, yet the low-grade filler dairy feeds were irregular in composition and poor in quality. It is thru these feeds that screenings, screenings waste, hulls, chaff, weed seeds and materials of little or no feeding value are sold to the unsuspecting feeder at attractive prices. Such feeds are the costliest a feeder can buy because of their low productiveness as compared with high-quality feeds and considering the chance he is taking with the health of his animals. Most of the irregularities found in mixed feeds come thru the use of screenings and screenings waste.

Considerable confusion has been created in the minds of many buyers of commercial feeds because of overemphasis and unwarranted claims of merit for certain kinds of feeds, in advertisements and sales talk. Example: certain poultry and hog feeds are advertised to contain as many as 6 to 8 mineral supplements and a similar number of vitamins, and the need for them is emphasized by salesmen. It is very unlikely that normal feeds are deficient in these materials and that poultry and hogs would need, at most, not more than one or two of those claimed to be in the feed. Many of these supplements are composed of common materials which ordinarily go to make up a normal ration, together with small quantities of a few materials of a medicinal or specific nature to becloud the mind of the feeder. Every practical feeder knows the value of the common feed ingredients but often they are shrouded with supplements, many of which have no nutritive value, to give mystery to the feed. Some of these materials are claimed to

have not only minerals and vitamins, but laxatives, regulators, worm remedies, appetizers and similar agents which have no place in a feed.

Sometimes salesmen inadvertently criticise feeds of their competitors, pointing out their weak points and the fallacies of the claims made for them, in such a manner as to create distrust in the mind of the feeder and many are becoming skeptical about the feed business.

Because nutritionists have found that a number of other substances besides protein, carbohydrates and fat are needed in the diet to effect perfect nutrition they advocate diets composed of several different kinds of feed. Manufacturers of mixed feeds recognize a possible need of this kind in certain commercial feeds and are trying to meet it intelligently. Unfortunately, some manufacturers have taken up multiplicity of ingredients as a selling point and are including in their mixed feeds a large number of materials, regardless of the nature of the nutrients contained in them. Persistent advertising has tended to make the feeder believe that the more ingredients a mixed feed contains, the better it is. This tends to give an unfair advantage to the dealer who sells a feed in which a dozen ingredients are claimed, over the one who sells an equally good or better feed in which only four or five are claimed. Some manufacturers even repeat names that imply practically the same thing, in order to make the list longer. For example: wheat mixed feed was declared by one as being composed of wheat bran, wheat middlings, wheat shorts, wheat white middlings and red dog. Another, who used ground shelled corn in his feed, declared as ingredients, corn meal, hominy meal, corn germ meal and corn bran. Sometimes the most important ingredients are used in the smallest amounts permissible, in order to get the names on the label, and the main ingredients are less desirable materials.

Honesty is a very important factor in the manufacture of feed. It is frequently lost sight of. It is too often left out of the formula. It is that factor which should be closely associated

with every nutrient in a feed whether it be protein, fat, carbohydrates, minerals or vitamins. A great deal depends on the honesty of the manufacturer.

SOME ABUSES IN FEEDS

Some of the abuses found in feeds in Kentucky during the year are pointed out in the following paragraphs, for the benefit of the feeder, who is the backbone of the livestock industry, and the manufacturer, who stands for honesty and quality in the feed industry, with the hope that both will join with the Department in an endeavor to eliminate as much as possible the economic cheats and frauds practiced in the feed industry.

Alfalfa Products. Alfalfa products are used in special-purpose and mixed feeds. The feeder has no way to know their quality and depends on the service of the Feed Control Department and the honesty of the manufacturer to protect his interest. Much inferior alfalfa meal is being used in low-grade feeds. Often alfalfa that has been stripped of part of the leaves is ground and mixed in feeds, under the name of alfalfa meal. Sometimes alfalfa stems are used in the same way. Most of the inferior meals and deleafed meals are used in low-grade dairy feeds. Much of it has been treated with molasses to disguise its quality. The better grades of alfalfa and leaf meals are used in poultry and hog feeds.

Animal Products. Some samples of meat scrap and tankage were found to be adulterated with soybean oil meal, cottonseed meal and whale meal. Some of the adulterations were traced to shipments of adulterated materials from South America. These adulterations were detected by the aid of the microscope and this fact emphasizes the importance of the microscopist in the feed control work.

The quality and use of milk by-products were irregular. Some manufacturers used poor quality of milk products in their mashes while others guaranteed the presence of a milk product in some feeds in which it was not found on analysis.

Corn Products. Degermed corn and products from it have been used in stock and poultry feeds. The result of this practice was that the feeds were not only deficient in the valuable germ but the fat content was correspondingly low. A mixture of corn bran, corn meal and a small amount of corn germ has been sold as hominy feed. Finely ground corn bran has often been substituted for corn feed meal.

Cottonseed Products. Cottonseed meals generally met their guaranties, but frequently too much hull was present which made the fiber too high and the protein correspondingly low.

Screenings and Screenings Waste. A substantial amount of screenings and screenings waste was used in low-grade dairy feeds. The materials varied widely in chemical and physical composition. Some screenings have value, some have very little while others are worthless and even dangerous to the health of animals. Feeders are urged to beware of feeds containing screenings.

Soybean Products. Soybean oil meal was increasingly used in all classes of stock feeds during the year. The solvent-processed meals were almost devoid of fat, dry in texture and unpalatable. Some soybean oil meals contained an excess of water due, it would seem, to the addition of water by some manufacturers.

Wheat Products. There were more irregularities in wheat feeds during the year than usual. Some mills partially degerm the wheat and use the germ for special purposes, while others are adjusting their milling process so as to retain the germ in the flour for its vitamin content. The by-products, except bran, are correspondingly low in fat, protein, vitamins and minerals, as the germ is rich in these materials. Some of the wheat feeds contained excess water which indicated that water had been added in some way during the process of milling and sacking the feed. It is claimed that the high water content is due to "tempering" the wheat in milling. Many mills also make a number of wheat feeds by including screenings, inferior ground wheat and inferior wheat by-products without regard to

any standard of quality. Many of these irregularities were claimed to be caused by natural and seasonal conditions, but most of them are man-made.

IMPORTANCE OF UNIFORMITY IN PREPARING SAMPLES FOR ANALYSIS

The procedure of the Association of Official Agricultural Chemists requires that in preparing a sample of feed for analysis it shall be ground until all passes thru a sieve having circular openings one millimeter in diameter. The object of this procedure is to promote uniformity and to have the particles of the sample so small that the several small portions weighed out for analysis shall be identical in composition. Obviously, the action of solvents may be affected by the degree of fineness of a material; the smaller the particles, the more efficient the action. The following experiment was made to observe the effect of grinding on the findings for ether extract and fiber, determinations which are made by means of solvents. Findings of protein should not be affected by degree of fineness except that small portions taken from a mixture containing coarse particles may not be uniform in composition.

In this experiment, each sample of feed was divided into two parts, one of which was ground until it all passed the 1-mm sieve, and analyzed, as usual. Later, the other part which had been kept in a closed jar, was analyzed without having been ground. Only single determinations were made and water was not determined. Table 1 gives the average findings in the original samples and the difference obtained by subtracting the average for the unground sample from that for the ground sample. The difference has the minus sign when more was obtained from the unground sample than from what had been ground. Table 2 gives these differences calculated as percent of the findings in the ground samples, and also the range of the individual determinations.

As was expected, grinding increased the percentage of ether extract obtained, decreased that of fiber, and affected that of protein least. Some of the differences are striking, especially

in the dried grains and wheat feeds. The findings confirm the well-recognized principle, that standard directions for preparation of the sample for analysis should be followed faithfully by the analyst.

Table 1. Effect of fineness on the analysis of feeds. The percent obtained from the original sample is stated and below it the increase obtained by analyzing a finer-ground portion. (The minus sign means decrease.)

| Kind of Feed | Protein | Ether extract | Fiber | Number averaged |
|---|---------|---------------|---------|-----------------|
| | Percent | Percent | Percent | |
| Dried grains (2 distillers'; 1 brewers') | 25.00 | 6.05 | 13.75 | 3 |
| Increase or decrease (—) from grinding | 0.84 | 2.37 | —1.49 | |
| Tankage | 54.28 | 9.02 | 1.87 | 3 |
| Increase or decrease (—) from grinding | 0.20 | 0.83 | —0.64 | |
| Wheat feeds | 15.68 | 4.15 | 6.43 | 13 |
| Increase or decrease (—) from grinding | 0.22 | 0.68 | —0.42 | |
| Dried beet pulp | 8.95 | 0.18 | 20.40 | 1 |
| Increase or decrease (—) from grinding | 0.30 | 0.45 | —0.02 | |
| Mixed feeds (4 corn, 3 dairy, 5 poultry, 1 hog, 1 dog) | 14.10 | 5.14 | 5.01 | 14 |
| Increase or decrease (—) from grinding | —0.16 | 0.25 | 0.12 | |
| Oil meal (3 linseed, 5 cottonseed) | 40.11 | 6.44 | 8.62 | 8 |
| Increase or decrease (—) from grinding | 0.07 | 0.08 | —0.13 | |
| General average | 23.97 | 5.60 | 7.16 | 42 |
| Increase or decrease (—) from grinding | 0.13 | 0.52 | —0.28 | |

Table 2. Increase or decrease from grinding the samples of feed, expressed as percent of the constituent determined. (The minus sign means decrease.)

| Kind of Feed | Protein | Ether extract | Fiber | Number of analyses averaged |
|-----------------------|-------------|---------------|-------------|-----------------------------|
| | Percent | Percent | Percent | |
| Dried beet pulp | 3.2 | 71.4 | —0.1 | 1 |
| Dried grains | 3.3 | 28.2 | —12.2 | 3 |
| Range | 1.4 to 6 | 25 to 31 | —5 to —19 | |
| Wheat feeds | 1.4 | 14.1 | —7.0 | 13 |
| Range | 0 to 3.4 | 1.6 to 28.6 | —15 to 9 | |
| Mixed feeds | —1.2 | 4.6 | 2.3 | 14 |
| Range | —3.8 to 3.1 | —3.9 to 12 | —10 to 15 | |
| Oil meals | 0.2 | 1.2 | —1.5 | 8 |
| Range | —2.2 to 4.1 | —3.6 to 4.9 | —5.8 to 3.2 | |
| Tankage | 0.4 | 0.8 | —52.0 | 3 |
| Range | —0.1 to 7 | 4 to 11 | —67 to —28 | |
| General average | 0.4 | 8.4 | —6.3 | 42 |

RURAL MILLS

It has been the custom of the Feed Control Department for a number of years to encourage small mills in rural communities in developing cooperative community projects of an agricultural nature, in an advisory way, by analyzing their feeds, helping them make their feed formulas and advising the kind of supplements to use with the home-grown feeds and where they can be obtained.

The arrangement is between the mill and farmers in the community, whereby the mill takes the home-grown materials at local or fixed prices, mills them, adds the necessary supplements to balance the feeds and sells them back to the farmers at a low cost. Other agricultural products are handled in the same manner. In this way home markets are established for the farmers and mills for home-grown feed materials. Such an arrangement encourages farmers to grow more and better crops, raise more farm animals at less cost and at the same time improve their farms by raising more grass and livestock. It stimulates other community activities, especially of a cooperative nature. It not only helps the community economically but in a general way forms a basis which makes for better and more successful living.

MISCELLANEOUS SAMPLES, INCLUDING SAMPLES SUSPECTED OF POISONING STOCK

During the year, one hundred and sixty-four samples were sent to the Department for help to solve certain feed problems; of these, thirty were suspected of containing poison. The samples were examined microscopically and, when thought advisable, a chemical analysis was made for suspected poisons. All these feeds were found to be sound, of good quality and free from suspected poisons.

Whenever production from poultry or from dairy cows falls off or the animals become sick or die, the first thought in the minds of many feeders is to blame the feed rather than to look for some other cause such as changing the feeding practices, disease, parasites, etc. This is often unjust to the manu-

facturer of the feed. The guaranties made by manufacturers are not absolute measures of value; however, these and the manufacturer's reputation are the best criteria that a feeder has. More often, when the trouble is due to the feed, it can be laid to the use of cheap filler feeds containing screenings composed of weed seeds, trash and inferior and diseased grains. It could be possible that a malicious person might put poison into a neighbor's feed, or that the stock might get wilted wild cherry leaves, sudangrass containing prussic acid or other poisonous materials. However, instances of this sort are rare.

In case of death of animals under unusual or suspicious circumstances, a reliable veterinarian should be called immediately to make an investigation.

METHOD OF CALCULATING THE ANALYSIS OF FEED MIXTURES

Requests are often received for a method for 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:

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.

CHEMICAL STANDARDS AND REGULATIONS

Chemical standards for feeds and regulations to be followed by the trade have been established by the Director of the Agricultural Experiment Station, under authority of the feed law. These standards are modified from time to time as sufficient experimental evidence and conditions justify. The

minimum for protein is sufficiently high in by-product feeds to assure good quality products and in special-purpose feeds to require a desirable source. Minimum fat requires the by-products to be from grains that have not been degermed and the special-purpose feeds to be composed of materials that have not been degermed and excludes excessive fillers of low fat content. The standard for fiber assures good-quality by-product feeds and excludes excessive fillers and materials of highly fibrous nature, and assures a high percentage of nitrogen-free extract.

1. Chemical Standards:

| | Mini- mum protein percent | Mini- mum fat percent | Maxi- mum fiber percent |
|---|------------------------------------|--------------------------------|----------------------------------|
| (a) Standard By-Products: | | | |
| Alfalfa leaf meal | | | 18.00 |
| Alfalfa meal | 13.00 | 1.50 | 32.00 |
| Barley, ground | | | 6.00 |
| Buttermilk, dried | | 5.00 | |
| Corn, chopped, cracked (Screened) .. | 8.00 | 3.50 | 3.00 |
| Corn, chopped, cracked, ground | 9.00 | 3.75 | 2.50 |
| Corn feed meal | 8.00 | 3.75 | 4.00 |
| Cottonseed meal, 41% protein | 41.00 | 5.00 | 12.00 |
| Cottonseed meal, 43% protein | 43.00 | 5.50 | 10.00 |
| Hominy meal, hominy feed | 10.00 | 7.00 | 6.00 |
| Oats, ground | 11.00 | 4.50 | 12.00 |
| Rye middlings or shorts | 15.50 | 3.50 | 6.00 |
| 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 |

| | Mini- mum protein percent | Mini- mum fat percent | Maxi- mum fiber percent |
|---|------------------------------------|--------------------------------|----------------------------------|
| Poultry: | | | |
| 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 |
| Fattening mash | 13.00 | 4.00 | 6.00 |
| Growing mash, broiler 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 exercised to make the chemical guaranties reasonably close to the actual content of the feed. In other words, arbitrary guaranties will not be accepted as final.

(b) If a material change is made in the guaranty of a feed, in effect lowering the value of the feed, the name of the feed must be changed also.

(c) The percentage of protein must form part of the name in all high-protein materials and special-purpose feeds. Example: 41% Protein Cottonseed Meal, 60% Protein Tankage, 20% Protein Dairy Feed, 17% Protein Growing Mash.

(d) Oil-mill 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 percent of 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. **Essential Organic Ingredients:**

A feedstuff must not contain less than 3 percent of any essential organic food ingredient stated in the guaranty. If an ingredient so stated is found to be less than 3 percent the feed will be classed as misbranded.

4. **Mineral Ingredients:**

Mineral ingredients, generally regarded as dietary factors essential for the normal nutrition of animals, except bone, when added to a feed must not exceed 3 percent. The amount of salt in any stock feed, including poultry feeds, should not exceed 1 percent.

5. **Screenings:**

(a) Percentage of screenings in wheat feeds and statement whether ground or unground, 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."

6. **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 percent of the mixture.

7. **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.

TONNAGE IN 1939

The total tonnage of feeds sold in Kentucky in 1939, computed from tax tags issued, was 349,470. Of this amount, 11.5 percent is corn feed; 4 percent cottonseed meal; 14 percent dairy feed; 3 percent hog feed; 3 percent horse feed; 8.5 percent mixed feed made of wheat by-products with small percent corn bran; 21.3 percent poultry feed; 25 percent wheat feed, and other tonnage 9.7 percent.

It is classified as follows:

| | Tons |
|-------------------------------|--------|
| Alfalfa meal | 25 |
| Bone meal | 325 |
| Brewers dried grains | 535 |
| Calf meal | 610 |
| Corn by-product feed | 1,100 |
| Corn feed meal | 1,350 |
| Corn gluten feed | 225 |
| Corn meal | 550 |
| Cottonseed meal | 14,750 |
| Cracked corn | 18,500 |
| Crushed ear corn | 225 |
| Dairy feed: | |
| 16% protein | 24,985 |
| 20% protein | 4,425 |
| 24% protein | 18,085 |
| Supplement | 1,125 |
| | 48,620 |
| Distillers dried grains | 500 |
| Dog feed: | |
| Canned | 2,635 |
| Dry | 1,520 |
| | 4,155 |
| Dried beet pulp | 200 |
| Dried buttermilk | 50 |
| Fish meal | 25 |

Commercial Feeds in 1939

17

| | Tons |
|--|--------|
| Hog feed: | |
| Fattening and growing | 5,355 |
| Supplement | 5,025 |
| | <hr/> |
| Hominy feed | 10,380 |
| Horse and mule feed | 18,350 |
| Linseed oil meal | 12,325 |
| Meat scrap | 550 |
| Mineral feed | 2,250 |
| Miscellaneous | 2,010 |
| Miscellaneous wheat feeds | 3,005 |
| Miscellaneous wheat feeds | 3,635 |
| Mixed feed (wheat by-product with small percent corn bran).... | 29,935 |
| Oats, ground | 475 |
| Oats, rolled | 325 |
| Pigeon feed | 200 |
| Poultry grains: | |
| Chick | 6,910 |
| Scratch | 18,225 |
| | <hr/> |
| | 25,135 |
| Poultry mash: | |
| All-mash growing ration | 2,042 |
| All-mash laying ration | 155 |
| All-mash poultry ration | 2,560 |
| All-mash starting ration | 720 |
| All-mash starting and growing ration | 3,160 |
| Fattening mash | 1,275 |
| Growing and broiler mash | 9,170 |
| Laying mash | 18,938 |
| Starting mash | 5,335 |
| Starting and growing mash | 925 |
| Supplement mash | 2,125 |
| Turkey growing mash | 1,910 |
| Turkey laying mash | 150 |
| Turkey starting mash | 815 |
| Turkey supplement mash | 50 |
| | <hr/> |
| Rabbit feed | 49,330 |
| Sheep feed | 675 |
| Soybean oil meal | 975 |
| Soybean oil meal | 5,175 |
| Stock feed | 5,810 |

| | Tons |
|---------------------------------------|----------------|
| Tankage | 3,140 |
| Wheat bran | 7,725 |
| Wheat brown middlings or shorts | 12,200 |
| Wheat flour middlings | 1,265 |
| Wheat gray middlings or shorts | 22,370 |
| Wheat mixed feed | 37,980 |
| Wheat red dog flour | 2,475 |
| Total | 349,470 |

SUMMARY OF RESULTS OF INSPECTION AND ANALYSIS, 1939

Acme-Evans Co., Indianapolis, Ind. Inspection samples analyzed, 9.

Acme Wheat Brown Middlings and Screenings, 1; deficient in protein and excess fiber.

Acme Red Dog, 1; equaled guaranty.

Acme Hominy Feed, 1; equaled guaranty.

Acme Ground Oats, 1; ground corn product present.

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

Acme 18% Protein Egg Mash (With Cod Liver Oil), 1; equaled guaranty.

Acme 18% Protein Pig Meal, 1; equaled guaranty.

Acme 16% Protein Dairy Feed, 1; excess screenings refuse present; misbranded.

Acme 32% Protein Dairy Supplement, 1; deficient in fat.

The Acme Mills, Hopkinsville, Ky. Inspection samples analyzed, 4.

Wheat Brown Shorts, 1; deficient in protein.

"Kentucky Choice" Wheat Mixed Feed and Screenings, 1; equaled guaranty.

Supreme Brand 16% Protein Dairy Feed, 1; equaled guaranty.

"Butter Nut" Dairy Feed, 1; equaled guaranty.

H. T. Adams & Co., Harrodsburg, Ky. Inspection sample of Old Fort Egg Mash analyzed, 1; much deficient in protein; no linseed oil meal found; misbranded.

Albers Bros. Milling Co., Seattle, Wash. Inspection sample of Calf Manna analyzed, 1; equaled guaranty.

Alfocorn Milling Co., E. St. Louis, Ill. Inspection samples analyzed, 3.

Alfocorn Start and Grow Mash, 1; equaled guaranty.

"Full Pail" 16% Protein Dairy Feed, 1; deficient in fat; no cottonseed meal or brewers dried grains found; excess screenings present; misbranded.

"Quick Pork" 40% Protein Supplement, 1; equaled guaranty.

E. T. Allen Co., Atlanta, Ga. Inspection sample of Empire 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.

- Allied Mills, Inc., Chicago, Ill. Inspection samples analyzed, 13.
Wheat Gray Shorts and Screenings, 1; equaled guaranty.
Brewers Dried Grains, 1; equaled guaranty.
Red Feather Scratch Feed, 1; equaled guaranty.
Wayne Poultry Fattener, 1; equaled guaranty.
Red Feather Egg Mash, 1; equaled guaranty.
Wayne Pig Starter, 1; equaled guaranty.
Wayne Pork Maker, 1; equaled guaranty.
Wayne 40% Protein Hog Supplement, 1; equaled guaranty.
"Topper" 16% Protein Dairy Feed, 2; 1 ground corn product present tho not guaranteed.
Wayne 24% Protein Dairy Feed, 3; equaled guaranty.
- Anderson & Spilman, Danville, Ky. Inspection samples of Snow Flake Feed analyzed, 2; screenings refuse substituted for wheat screenings; misbranded; 1 deficient in protein.
- Arcady Farms Milling Co., Chicago, Ill. Inspection samples analyzed, 18.
Wheat Brown Middlings and Screenings, 1; excess fiber; excess ground wheat bran present; misbranded.
Arcady Wonder Starting Mash, 1; no dried buttermilk found; fish meal present tho not guaranteed.
Arcady Wonder Complete All-Mash Chick Starter, 1; equaled guaranty.
Sunkist Starter and Grower All-Mash, 1; no dried buttermilk found.
Wonderfat Station Feed, 1; equaled guaranty.
Sunkist Egg Mash, 2; no linseed oil meal or dried buttermilk found; 1 excess fiber.
Arcady Laying Mash, 2; equaled guaranty.
Wonder Brand Turkey Growing Mash, 1; no dried buttermilk or animal liver meal found; corn gluten meal and fish meal present tho not guaranteed.
"Beats-Oats Brand" Horse and Mule Feed, 1; equaled guranaty.
Arcady 9% Protein Steer Feed, 1; screenings refuse substituted for screenings-grain; cottonseed meal present tho not guaranteed; misbranded.
Arcady Wonderlas 26% Protein Feed (Supplement), 1; malt sprouts present tho not guaranteed.
Besbet 16% Protein Dairy Feed, 2; soybean oil meal present tho not guaranteed; screenings refuse substituted for oat hull feed.
Arco 24% Protein Dairy Ration, 3; equaled guaranty.
- Ashcraft Wilkinson Co., Atlanta, Ga. Inspection samples of "Helmet Brand" 41% Protein Cottonseed Meal analyzed, 3; 1 excess fiber.

Ashland Milling Co., Ashland, Ky. Inspection samples analyzed, 8.

"Blue Ribbon" Egg Mash, 1; equaled guaranty.

"Blue Ribbon" Porkmaker, 1; equaled guaranty.

"Blue Ribbon" Hog Ration, 1; equaled guaranty.

"Blue Ribbon" Special 16% Protein Dairy Feed, 1; no corn gluten feed or cottonseed meal found.

"Blue Ribbon" 20% Protein Dairy Feed, 1; equaled guaranty.

"Blue Ribbon" Special 20% Protein Dairy Feed, 1; equaled guaranty.

"Blue Ribbon" 24% Protein Dairy Feed, 1; equaled guaranty.

"Blue Ribbon" 33% Protein Dairy Supplement, 1; equaled guaranty.

The Great Atlantic & Pacific Tea Co., New York, N. Y. Inspection samples analyzed, 15.

Daily Growth Chick Starter, 1; corn gluten meal present tho not guaranteed.

Daily Growth Growing Mash, 1; excess fiber; soybean oil meal substituted for linseed oil meal.

Daily Growth Poultry Fattener, 1; salt present tho not guaranteed.

Special Daily Egg Laying Mash, 2; 1 deficient in protein.

Daily Growth Turkey Grower, 1; equaled guaranty.

Daily Horse Feed, 3; equaled guaranty.

"Daily Milk" 16% Protein Dairy Feed, 2; equaled guaranty.

"Milky Way" 20% Protein Dairy Feed, 1; deficient in fat.

"Milky Way" 24% Protein Dairy Feed, 2; equaled guaranty.

"Milky Way" 32% Protein Dairy Feed Supplement, 1; deficient in fat.

Aubrey & Co., Louisville, Ky. Inspection samples analyzed, 60.

Red "A" Wheat Red Dog, 2; equaled guaranty.

Red "A" Wheat Mixed Feed and Screenings, 1; equaled guaranty.

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

Corn Feed Meal, 1; equaled guaranty.

Hominy Meal, 4; equaled guaranty.

Aubrey's Ground Barley, 1; excess fiber.

Ground Oats, 2; deficient in fat and excess fiber; inferior oats; misbranded; 1 deficient in protein.

Aubrey's 34% Protein Linseed Oil Meal, 1; equaled guaranty.

Aubrey's 41% Protein Soybean Cake Meal, 2; equaled guaranty.

Red "A" Distillers 28% Protein Corn Dried Grains, 1; deficient in protein and fat.

Red "A" 50% Protein Meat Scraps, 2; equaled guaranty.

Red "A" 60% Protein Digester Tankage, 1; equaled guaranty.

Monarch Poultry Scratch Feed, 1; only traces of kaffir and milo present.

- Red Bird Baby Chick Starting Mash (With Cod Liver Oil), 1; excess fiber; corn gluten feed present tho not guaranteed.
- Red Bird Baby Chick Starting and Growing Mash (With Cod Liver Oil), 1; equaled guaranty.
- Red Bird Growing Mash (With Cod Liver Oil), 2; equaled guaranty.
- Rainbow Poultry Fattening Mash, 1; equaled guaranty.
- Red Star Laying Mash, 2; equaled guaranty.
- Supreme Laying Mash (With Cod Liver Oil), 1; equaled guaranty.
- Rainbow Turkey Mash, 1; deficient in protein.
- Dandy Horse Feed, 2; 1 screenings refuse substituted for oat hull feed.
- Supreme 95% Grain Horse Feed, 1; equaled guaranty.
- Red "A" Sheep Feed, 1; equaled guaranty.
- Rainbow Hog and Pig Feed, 4; 1 no charcoal found.
- Red "A" 40% Protein Hog Supplement, 4; 1 deficient in protein, no corn gluten meal found; 1 deficient in fat.
- "Red Circle" Feed, 1; equaled guaranty.
- Red Star 16% Protein Dairy Feed, 1; equaled guaranty.
- Monarch 16½% Protein Dairy Feed, 7; equaled guaranty.
- Jewell's 24% Protein Dairy Feed, 1; equaled guaranty.
- Supreme 24% Protein Dairy Feed, 2; equaled guaranty.
- "Ful-O-Cream Brand" 24% Protein Dairy Feed, 5; 1 deficient in fat; 1 no corn gluten feed found.
- Rainbow 34% Protein Dairy Supplement, 2; 1 deficient in fat.
- The Auburn Mills, Auburn, Ky. Inspection samples of Mixed Feed analyzed, 4; equaled guaranty.
- Auburn Roller Mills, Auburn, Ky. Inspection samples analyzed, 3.
- Wheat Gray Shorts, 1; deficient in protein; corn feed meal present; misbranded.
- Corn By-product Feed, 2; equaled guaranty.
- Aurora Flour & Feed Co., Aurora, Ind. Inspection samples analyzed, 3.
- Dearborn Sheep Feed, 1; equaled guaranty.
- Dearborn Pig and Hog Supplement, 1; equaled guaranty.
- Dearborn 24% Protein Dairy Feed, 1; equaled guaranty.
- B. & B. Roller Mills, Uniontown, Ky. Inspection samples analyzed, 2.
- B. and B. Mixed Feed, 1; deficient in protein and excess fiber; crushed ear corn and shuck present; adulterated and misbranded.
- B. and B. 16% Protein Dairy Feed, 1; no distillers dried grains found.
- Ballard & Ballard Co., Louisville, Ky. Inspection samples analyzed, 51.
- Ballard's Bran, 2; equaled guaranty.

- Ballard's Kentucky Farm Feed and Screenings, 2; 1 deficient in protein.
- Ballard's Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- Dried Buttermilk, 2; 1 deficient in fat.
- Guardian Scratch Grains, 1; equaled guaranty.
- Insurance Pigeon Feed No. 5, 1; equaled guaranty.
- Insurance Growing Mash, 2; excess fiber.
- Insurance Broiler Ration, 1; equaled guaranty.
- Guardian Starting and Growing Mash, 1; excess fiber.
- Insurance Starter and Grower, 1; equaled guaranty.
- Chick Insurance All-Mash Starting and Growing Feed, 1; equaled guaranty.
- Insurance Egg Mash, 1; equaled guaranty.
- Guardian Laying Mash, 1; equaled guaranty.
- Insurance Turkey Starter, 2; equaled guaranty.
- Insurance Turkey Growing Mash, 1; deficient in protein.
- Insurance 32% Protein Poultry Mash (Supplement), 2; equaled guaranty.
- Insurance Dog Feed, 1; equaled guaranty.
- Insurance Horse Feed, 2; 1 linseed oil meal present tho not guaranteed.
- Guardian Horse and Mule Feed, 1; equaled guaranty.
- Balco Sweet Mule Feed, 2; equaled guaranty.
- Sheep Insurance Feed, 3; 2 deficient in protein.
- Insurance Calf Starter, 1; equaled guaranty.
- Insurance Pig and Hog Ration, 1; equaled guaranty.
- Insurance Pig and Hog Feed Supplement, 1; equaled guaranty.
- Insurance Bulky Feed, 1; equaled guaranty.
- Insurance Dry and Freshening Cow Feed, 3; equaled guaranty.
- Balco 16% Protein Sweet Dairy Feed, 6; 3 oat hull feed substituted in part for cottonseed hulls.
- Guardian 20% Protein Sweet Dairy Feed, 1; equaled guaranty.
- "Milk Insurance" 20% Protein Sweet Dairy Feed, 1; equaled guaranty.
- Guardian 24% Protein Sweet Dairy Feed, 1; equaled guaranty.
- "Milk Insurance" 24% Protein Dairy Feed, 2; 1 brewers dried grains present tho not guaranteed.
- Insurance 24% Protein Sweet Dairy Feed, 1; equaled guaranty.
- Insurance 34% Protein Sweet Dairy Feed (Supplement), 1; equaled guaranty.
- Baltic Mills Co., Vincennes, Ind. Inspection samples of Hominy Feed analyzed, 5; equaled guaranty.
- Bardstown Mills, Bardstown, Ky. Inspection samples of Royal Mill

- Feed analyzed, 5; 3 deficient in protein and fat, wheat flour present; 1 no corn bran found.
- Baughman Milling Co., Stanford, Ky. Inspection sample of Banner Mixed Feed analyzed, 1; ground barley present tho not guaranteed.
- Zebedee Berry, Lucas, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; deficient in protein.
- The Big Four Mills, Ltd., Covington, Ky. Inspection samples analyzed, 18.
- Hominy Feed, 1; equaled guaranty.
- "Hi-Lo" Egg Mash, 4; 2 deficient in protein; 1 no dried buttermilk found.
- "Big Four" Horse Feed, 2; 1 deficient in fat; 1 no alfalfa meal found.
- "Big Four" 19% Protein Pig and Hog Feed, 1; equaled guaranty.
- "Big Four" Hog Supplement, 2; 1 deficient in protein.
- "Hi-Lo" 16% Protein Dairy Feed, 4; 1 no corn gluten meal found, corn feed meal present tho not guaranteed.
- "O. K. Brand" Special 17% Protein Dairy Feed, 2; 1 deficient in fat; 1 corn gluten feed, brewers dried grains and distillers dried grains present tho not guaranteed, misbranded.
- "Hi-Lo" 24% Protein Dairy Feed, 1; equaled guaranty.
- "Big Four" 24% Protein Dairy Feed, 1; only trace of wheat bran present; ground oats present tho not guaranteed.
- Binns Milling Co., Herndon, Ky. Inspection samples analyzed, 3.
- Eclipse Mixed Feed, 2; 1 deficient in protein.
- Eclipse Hog Feed, 1; deficient in fat.
- Blackman Stock Medicine Co., Chattanooga, Tenn. Inspection sample of Blackman's "Char-Med-Sal" analyzed, 1; equaled guaranty.
- Blanton Milling Co. (Acme-Evans Co.), Indianapolis, Ind. Inspection samples of Blanton Wheat Brown Middlings and Screenings analyzed, 2; 1 excess fiber, ground wheat bran present.
- Blish Milling Co., Seymour, Ind. Inspection samples of "Bull's Eye" Wheat Brown Middlings and Screenings analyzed, 2; 1 deficient in protein.
- Blue Grass Feed Co., Lexington, Ky. Inspection sample of Eggmaker Laying Mash analyzed, 1; no fish meal found.
- Boonville Mills, Boonville, Ind. Inspection sample of Wheat Brown Shorts analyzed, 1; deficient in protein and fat; wheat flour present.
- Bowling Green Milling Co., Bowling Green, Ky. Inspection samples analyzed, 9.
- Corn By-product Feed, 3; 2 excess fiber.

- Mixed Feed, 3; 1 deficient in protein; 1 deficient in fat, no rice bran found; 1 much deficient in protein and fat and excess fiber, adulterated with rice hulls, misbranded.
- Pork Maker (Fattening), 1; equaled guaranty.
- Monroe's Special 16½% Protein Dairy Feed, 2; 1 deficient in fat.
- Bowling Green Sweet Feed Mill Co., Bowling Green, Ky. Inspection samples analyzed, 4.
- "Ace Brand" Horse and Mule Feed, 1; deficient in fat.
- "Ace Brand" 16% Protein Dairy Feed, 3; deficient in protein and fat; 1 no ground oats found, ground barley present tho not guaranteed.
- Broadway Roller Mills, Bowling Green, Ky. Inspection samples of Mixed Feed analyzed, 2; 1 deficient in protein and fat, wheat flour present.
- Chas. Broeker & Co., Owensboro, Ky. Inspection samples analyzed, 3.
- Hominy Feed, 1; equaled guaranty.
- Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- Broeker Chick Feed, 1; no millet found.
- Browder Milling Co., Fulton, Ky. Inspection samples analyzed, 11.
- Cracked Wheat, 1; equaled guaranty.
- Wheat Bran and Screenings, 1; equaled guaranty.
- All-Mash Starting Feed, 1; deficient in protein, soybean oil meal present tho not guaranteed.
- "Biddie's Choice" Laying Mash, 1; deficient in fat; fish meal present tho not guaranteed.
- Browder's Special Horse and Mule Feed, 2; equaled guaranty.
- "Hog's Delight" Sweet Feed, 1; equaled guaranty.
- "Big Sixteen" (16%) Dairy Feed, 2; 1 excess fiber.
- "Lucky Strike" 24% Protein Dairy Feed, 2; 1 deficient in fat.
- The Buckeye Cotton Oil Co., Cincinnati, O. Inspection samples of 41% Protein Soybean Oil Meal analyzed, 2; equaled guaranty.
- Buffalo Roller Mills, Buffalo, Ky. Inspection sample of "Sea Foam Brand" Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein; wheat flour present.
- Bundy Bros., Vallonia, Ind. Inspection samples analyzed, 2.
- Wheat Bran, 1; excess fiber.
- Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- Bundy Bros. Mill Co., Medora, Ind. Inspection samples analyzed, 16.
- Hominy Feed, 6; equaled guaranty.
- Medora Chick Feed, 1; no milo found.
- Medora Intermediate Scratch Feed, 1; equaled guaranty.
- Monarch Laying Mash, 4; 3 no dried milk products found; 2 no ground oats found; 2 no fish meal found; 1 no feeding malt found.

Megora Laying Mash, 1; ground oats present tho not guaranteee.
Jumbo Laying Mash, 1; deficient in protein; no linseed oil meal found.

Combination Stock Feed, 2; 1 deficient in protein.

Bunton Seed Co., Louisville, Ky. Inspection sample of "Bunton's Quality Brand" 24% Protein Dairy Feed analyzed, 1; equaled guaranty.

Burnside Milling Co., Burnside, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; excess corn product present.

Cadick Milling Co., Grandview, Ind. Inspection samples analyzed, 4. Wheat Mixed Feed, 2; equaled guaranty.

Shipstuff, 2; deficient in protein; wheat flour present.

Cadick Produce Co., Inc., Grandview, Ind. Inspection sample of Cadick's 18% Protein Egg Mash analyzed, 1; ingredients not as guaranteed; misbranded.

Cadiz Milling Co., Cadiz, Ky. Inspection sample of Sunbeam Wheat Mixed Feed and Screenings analyzed 1; equaled guaranty.

Calhoun Sweet Feed Co., Calhoun, Ky. Inspection samples of "Golden Rule" 16% Protein Dairy Feed analyzed, 2; excess fiber; 1 lespedeza meal substituted for alfalfa meal.

Cape County Milling Co., Jackson, Mo. Inspection sample of Capco Wheat Gray Shorts and Screenings analyzed, 1; excess fiber.

Chemical Products Corporation, Cincinnati, Ohio. Inspection samples analyzed, 2.

Abattoir Brand 50% Protein Regular Meat and Bone Scraps, 1; equaled guaranty.

Abattoir Brand 60% Protein Digester Tankage, 1; equaled guaranty.

The Cincinnati Grain & Hay Co., Cincinnati, Ohio. Inspection samples analyzed, 11.

Alfalfa Meal, 1; equaled guaranty.

Corn Feed Meal, 1; excess fiber.

Hominy Feed, 1; equaled guaranty.

Rolled Oats, 1; equaled guaranty.

"No Better Brand" Horse and Mule Feed, 1; equaled guaranty.

"No Better Brand" Sweet Sheep Feed, 1; equaled guaranty.

"Standard Brand" 16% Protein Dairy Feed, 2; deficient in fat; 1 soybean oil meal and alfalfa meal present tho not guaranteed.

"Special Brand" 16% Protein Sweet Dairy Feed, 1; equaled guaranty.

"No Better Brand" 20% Protein Sweet Dairy Feed, 1; deficient in fat.

- "No Better Brand" 24% Protein Sweet Dairy Ration, 1; deficient in fat.
- Citizens Milling Co., Somerset, Ky. Inspection sample of Cumberland Mixed Feed analyzed, 1; equaled guaranty.
- City Roller Mills, Vevay, Ind. Inspection samples of "Blue Ribbon" Wheat Mixed Feed and Screenings analyzed, 2; 1 ground corn product present, misbranded.
- Climax Roller Mills, Shelbyville, Ky. Inspection samples analyzed, 2. Climax Bran, 1; deficient in protein; wheat flour present. Climax Farm Feed, 1; deficient in protein and fat; wheat flour present.
- Clinton Hatchery, Clinton, Ky. Inspection sample of New Deal Laying Mash analyzed, 1; ground soybeans substituted for soybean oil meal.
- E. A. Cohen, Greenville, Ky. Inspection sample of "Pride of Muhlenberg" All-Mash Laying Ration analyzed, 1; equaled guaranty.
- H. C. Cole Milling Co., Chester, Ill. Inspection samples of Omega Wheat Gray Shorts and Screenings analyzed, 2; equaled guaranty.
- Clell Coleman & Sons, Burgin, Ky. Inspection samples of Coleman's Favorite Mixed Feed analyzed, 2; 1 no corn bran found.
- Colonial Milling Co., Nashville, Tenn. Inspection sample of Colonial Wheat Shorts and Screenings analyzed, 1; equaled guaranty.
- Columbian Hog & Cattle Powder Co., Kansas City, Mo. Inspection samples of Columbian Hog Powders analyzed, 3; equaled guaranty.
- Columbus Rendering Co., Columbus, O. Inspection samples analyzed 2. Coreco 50% Protein Meat and Bone Scraps, 1; equaled guaranty. Coreco 60% Protein Digester Tankage, 1; equaled guaranty.
- Community Flour Mills, Greenup, Ky. Inspection samples analyzed, 3. "Bestyet Brand" Mixed Feed, 1; deficient in protein. "Two-Way" 16% Protein Dairy Feed, 2; 1 deficient in protein and fat.
- Community Milling Co., Irvington, Ky. Inspection sample of Soft Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Consolidated Products Co., Danville, Ill. Inspection samples of Semi-Solid Buttermilk analyzed, 2; 1 deficient in fat.
- Crenshaw Oil Co., Crenshaw, Miss. Inspection sample of "Wylodine Brand" 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- Crescent Flour Mill, Cynthiana, Ky. Inspection samples analyzed, 4. Whole Ground Wheat, 1; deficient in protein; corn product present. Crescent Mixed Feed, 3; deficient in protein; wheat flour present.

- Crescent Roller Mills Co., Taylorsville, Ky. Inspection sample of Crescent Stock Feed analyzed, 1; equaled guaranty.
- Crofton Milling Co., Crofton, Ky. Inspection sample of Richfeed analyzed, 1; deficient in protein and fat; sample is ground wheat.
- Custom House Packing Corporation, Monterey, Calif. Inspection sample of Custom House Sardine Meal analyzed, 1; deficient in protein.
- Daviess County Distilling Co., Owensboro, Ky. Inspection sample of Distillers Corn Dried Grains analyzed, 1; equaled guaranty.
- Dearborn Mills, Aurora, Ind. Inspection samples analyzed, 6.
- Dearborn Hominy Feed, 1; equaled guaranty.
- Dearborn Layer, 1; equaled guaranty.
- "Success Brand" Layer, 1; equaled guaranty.
- "Success Brand" 16% Protein Dairy Feed, 1; deficient in fat.
- "Success Brand" 24% Protein Dairy Feed, 1; equaled guaranty
- Dearborn 24% Protein Dairy Feed, 1; equaled guaranty.
- The Dewey Bros. Co., Blanchester, O. Inspection samples analyzed, 3.
- Dewey's 18% Protein Dairy Feed, 1; equaled guaranty.
- Marion 24% Protein Dairy Ration, 2; ground corn present tho not guaranteed.
- W. C. Dicken, Mentor, Ky. Inspection samples analyzed, 5.
- "Sunny Grain Brand" Chick Starter, 1; excess fiber; no dried buttermilk found.
- "Sunny Grain Brand" Chick Grower, 1; equaled guaranty.
- "Sunny Grain Brand" Laying Mash, 1; excess fiber.
- "Sunny Grain Brand" Hog Feed, 1; deficient in fat.
- "Sunny Grain Brand" 24% Protein Dairy Feed, 1; equaled guaranty.
- Dixie Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 7.
- Dixie Starter and Grower Mash, 1; equaled guaranty.
- Dixie Egg Mash, 1; equaled guaranty.
- Dixie Laying Mash, 1; equaled guaranty.
- Dixie Pig Feed, 1; equaled guaranty.
- Dixie 16% Protein Dairy Feed, 1; equaled guaranty.
- "Holsum Brand" 16½% Protein Dairy Feed, 1; equaled guaranty.
- Dixie 24% Protein Dairy Feed, 1; equaled guaranty.
- Dossey-Clay-Howard Milling Co., Fountain Run, Ky. Inspection sample of Shipstuff analyzed, 1; deficient in protein; wheat flour present.
- Duncan & Theiss, La Grange, Ky. Inspection samples analyzed, 2.
- "Dairy Maid" 20% Protein Dairy Feed, 1; equaled guaranty.
- "Dairy Maid" 32% Protein Dairy Feed Supplement, 1; equaled guaranty.

- Dutschke Milling Co., Cannelton, Ind. Inspection samples analyzed, 4.
Chick Starter Mash, 1; no dried buttermilk found; soybean oil meal present tho not guaranteed.
- "Big Hen" Mash, 3; no corn gluten feed found; 1 no alfalfa meal or calcium carbonate found.
- Dyersburg Oil Mill, Dyersburg, Tenn. Inspection sample of Dyersburg Oil Mill 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- The Early & Daniel Co., Cincinnati, O. Inspection samples analyzed, 39.
- Tuxedo Wheat Gray Middlings and Screenings, 1; equaled guaranty.
- Hominy Meal, 1; equaled guaranty.
- Alfalfa Meal, 1; equaled guaranty.
- Tuxedo Rolled Oats, 1; equaled guaranty.
- Tuxedo 41% Protein Soybean Oil Meal, 1; equaled guaranty.
- Tuxedo Starting Mash, 1; equaled guaranty.
- Tuxedo Starting and Growing All-Mash, 1; equaled guaranty.
- Tuxedo Starter-Grower-Developer Mash, 1; excess fiber; no corn gluten meal found.
- Tuxedo Poultry Fattener, 1; equaled guaranty.
- Tuxedo Egg Mash, 1; equaled guaranty.
- Tuxedo Special Egg Mash, 1; equaled guaranty.
- Tuxedo Turkey Starting Mash, 1; no corn gluten meal found.
- Tuxedo Turkey Growing and Developing Mash, 1; equaled guaranty.
- Tuxedo 30% Protein Supplement Mash, 2; 1 no corn gluten meal found.
- Tuxedo Chop, 1; equaled guaranty.
- Tuxedo Special Chop, 3; 2 no wheat bran found, ground barley present tho not guaranteed.
- Tuxedo Sheep Feed, 2; equaled guaranty.
- Tuxedo Pig Meal, 1; equaled guaranty.
- Tuxedo Hog Ration 19% Protein, 1; equaled guaranty.
- Tuxedo Big Forty Hog Supplement, 3; 1 no corn gluten meal found.
- Tuxedo 16% Protein Dairy Feed, 1; equaled guaranty.
- Tuxedo Special 16% Protein Dairy Feed, 3; 1 no corn gluten meal found.
- Tuxedo 20% Protein Dairy Feed, 3; equaled guaranty.
- Tuxedo Special 20% Protein Dairy Feed, 2; 1 deficient in fat.
- Tuxedo 24% Protein Dairy Feed, 2; equaled guaranty.
- Tuxedo Special 24% Protein Dairy Feed, 2; equaled guaranty.

- Eckert Packing Co., Inc., Henderson, Ky. Inspection sample of Eckert's Pig's Delight 50% Protein Digester Tankage analyzed, 1; equaled guaranty.
- The F. L. Emmert Co., Cincinnati, O. Inspection samples analyzed, 2.
"Buffalo Brand" Brewers Dried Grains, 1; equaled guaranty.
"Molasso-Malt Brand" Brewers Dried Grains and Molasses, 1; equaled guaranty.
- John W. Eshelman & Sons, Lancaster, Pa. Inspection samples, analyzed, 13.
Eshelman Red Rose Growing Mash (With Cod Liver Oil), 1; equaled guaranty.
Eshelman Red Rose All-Mash Starter and Grower (With Cod Liver Oil), 1; equaled guaranty.
Eshelman Red Rose Laying Mash (With Cod Liver Oil), 1; equaled guaranty.
Eshelman Maintenance 20% Protein Laying Mash, 1; equaled guaranty.
Eshelman Red Rose Turkey Grower (With Cod Liver Oil), 1; equaled guaranty.
Eshelman Red Rose 32% Protein Mixing Ration (Supplement), 1; equaled guaranty.
Eshelman Red Rose Pig and Hog Meal, 1; excess fiber.
Eshelman Pennsy 16% Protein Dairy Feed, 2; equaled guaranty.
Red Cow 16% Protein Dairy Feed, 1; deficient in fat.
Eshelman Conestoga 20% Protein Dairy Feed, 1; equaled guaranty.
Eshelman Red Rose 24% Protein Dairy Feed, 1; equaled guaranty.
- Challenge 24% Protein Dairy Feed, 1; equaled guaranty.
- Evans Milling Co., Indianapolis, Ind. Inspection samples of Emco Hominy Feed analyzed, 3; 1 deficient in fat.
- Ewing-Von Allmen Dairy Co., Louisville, Ky. Inspection samples of Dried Skim Milk analyzed, 2; equaled guaranty.
- Excelsior Milling Co., Minneapolis, Minn. Inspection sample of Camel Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Exchange Milling Co., Sturgis, Ky. Inspection samples analyzed, 2.
Wheat Brown Shorts, 1; deficient in fat.
- Smith's Special 16% Protein Dairy Feed, 1; deficient in protein; no corn gluten feed found; screenings present tho not guaranteed; misbranded.
- Falls Cities Cooperative Milk Producers Association, Louisville, Ky. Inspection sample of Cooperative 24% Protein Sweet Dairy Feed analyzed, 1; equaled guaranty.
- The Farmers Granary Co., Van Wert, O. Inspection samples analyzed, 3.

- Crushed Ear Corn, 1; equaled guaranty.
40% Protein Hog Supplement, 1; equaled guaranty.
24% Protein Dairy Ration, 1; cob meal present tho not guaranteed.
- Farmers Mill, Clay, Ky. Inspection sample of Winter Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Farmers Milling Co., Somerset, Ky. Inspection samples analyzed, 3.
Mixed Feed, 1; deficient in protein; wheat flour present.
Farmers Stock Feed, 2; 1 deficient in protein, excess corn product present.
- Farmers & Merchants Milling Co., Brooksville, Ky. Inspection samples of Wheat Mixed Feed and Screenings analyzed, 2; deficient in protein; ground wheat present.
- Farmers Union Mill, Versailles, Ky. Inspection samples analyzed, 2.
Sheep Feed, 1; equaled guaranty.
20% Protein Dairy Feed, 1; equaled guaranty.
- J. H. Fedders' Son, Covington, Ky. Inspection sample of Hominy Feed analyzed, 1; deficient in fat.
- Ferncliff Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 12.
Cracker Jack Hominy Feed, 1; equaled guaranty.
Cracker Jack 41% Protein Soybean Cake Meal, 1; equaled guaranty.
P. D. Q. Starting and Growing Mash, 1; equaled guaranty.
Cracker Jack Egg Mash, 1; equaled guaranty.
P. D. Q. 18% Protein Egg Mash, 1; equaled guaranty.
Cracker Jack Special Feed No. 2, 1; deficient in protein.
P. D. Q. No. 1 Brand 16% Protein Dairy Feed, 2; equaled guaranty.
P. D. Q. 24% Protein Dairy Feed, 1; equaled guaranty.
Cracker Jack 24% Protein Sweet Dairy Ration, 2; equaled guaranty.
Ferncliff No. 1 Brand 24% Protein Dairy Ration, 1; equaled guaranty.
- Field Packing Co., Owensboro, Ky. Inspection samples analyzed, 2.
Field's 60% Protein Crackling Tankage, 1; deficient in protein.
Field's 50% Protein Crackling Tankage and Minerals, 1; much deficient in protein; misbranded.
- Henry Fischer Packing Co., Louisville, Ky. Inspection samples analyzed, 5.
50% Protein Ground Cracklings, 1; equaled guaranty.
"Mellwood Brand" 60% Protein Digester Tankage, 4; 1 deficient in protein.
- Flaherty Roller Mills Co., Vine Grove, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; wheat flour present.

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

Crushed Wheat, 1; equaled guaranty.

Wheat Mixed Feed, 1; equaled guaranty.

Henry Fruechtenicht, Louisville, Ky. Inspection samples analyzed, 14.

Ground Oats, 1; equaled guaranty.

'Blue Grass' Starting Mash, 2; equaled guaranty.

'Blue Grass' Growing Mash, 1; equaled guaranty.

Producer 20% Protein Laying Mash, 1; corn gluten product present tho not guaranteed.

"Blue Grass" Horse and Mule Feed, 2; deficient in protein; 1 no alfalfa meal found.

'Economy Brand' 16% Protein Dairy Feed, 3; equaled guaranty.

Producer 16% Protein Dairy Feed, 2; soybean oil meal present tho not guaranteed; 1 no distillers dried grains found; 1 no alfalfa meal found, corn gluten feed present tho not guaranteed.

Producer 24% Protein Dairy Feed, 1; soybean oil meal present tho not guaranteed.

"Blue Grass" 24% Protein Dairy Feed, 1; no linseed oil meal or distillers dried grains found.

Fuhrer-Ford Milling Co., Mt. Vernon, Ind. Inspection samples of Wheat Gray Shorts and Screenings analyzed, 2; 1 excess fiber.

Garden Street Mill & Elevator Co. (Aubrey & Co.), Louisville, Ky. Inspection samples of "Garden Brand" 16% Protein Dairy Feed analyzed, 7; 3 deficient in fat; 1 screenings refuse present tho not guaranteed.

Garrard Mills, Lancaster, Ky. Inspection samples analyzed, 3.

"Glen Lily" Mixed Feed, 2; deficient in protein; ground barley present tho not guaranteed; 1 deficient in fat.

Garrard Mixed Feed, 1; deficient in protein.

General Mills, Minneapolis, Minn. Inspection sample of Pittsburg Brand Feed and Screenings analyzed, 1; equaled guaranty.

Georgia Distributing Co., Atlanta, Ga. Inspection sample of "Gold Dust Brand" 41% Protein Cottonseed Meal analyzed, 1; excess fiber.

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

Wheat Mixed Feed, 1; equaled guaranty.

Mixed Feed, 1; no corn bran found.

Glasgow Milling Co., Glasgow, Ky. Inspection samples of Mixed Feed analyzed, 2; 1 deficient in protein, wheat flour and excess corn product present.

- Glass Milling Co., Wilmore, Ky. Inspection sample of Bouquet Mixed Feed analyzed, 1; equaled guaranty.
- The Glidden Co., Chicago, Ill. Inspection samples of "Glidden 4 Hi Diamond G Brand" New Process 44% Protein Soybean Oil Meal analyzed, 2; equaled guaranty.
- Edw. F. Goeke Sons, Evansville, Ind. Inspection samples analyzed, 8.
"New Deal" All-Mash, 1; excess fiber; no dried buttermilk found; excess corn bran present.
"A P" (All Purpose) Poultry Mash, 1; equaled guaranty.
"Eggo" Egg Mash, 1; no salt or dried buttermilk found.
Standard Horse and Mule Feed, 1; deficient in protein and excess fiber.
Goekes 40% Protein Hog Supplement, 2; excess fiber.
"A-1" 16% Protein Dairy Feed, 2; 1 deficient in protein and fat and excess fiber, adulterated with cottonseed hulls, misbranded; 1 no ground corn found.
- Goff Milling Co., Hiseville, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- The Goldcamp Mill Co., Ironton, O. Inspection samples analyzed, 6.
G. M. C. Feed, 1; equaled guaranty.
"Egg-O-Brand" Laying Mash, 1; equaled guaranty.
Mixed Stock Feed, 1; deficient in protein.
Pig and Hog Grower, 1; ingredients not as guaranteed; misbranded.
"Gold.Co" 16% Protein Dairy Feed, 2; excess screenings refuse present; misbranded; 1 excess fiber.
- Grain & Feed Mills Co., St. Louis, Mo. Inspection sample of 60% Protein Digester Tankage analyzed, 1; much deficient in protein and fat; adulterated with cottonseed meal and soybean oil meal; misbranded.
- Grayson Milling Co., Grayson, Ky. Inspection samples analyzed, 6.
K-Y 20% Protein Egg Mash, 1; deficient in fat; no dried buttermilk found.
K-Y Stock Feed, 2; 1 deficient in fat.
K-Y 16½% Protein Dairy Feed, 1; equaled guaranty.
K-Y Sweet 16% Protein Dairy Feed, 1; no corn gluten feed found.
K-Y Sweet 24% Protein Dairy Ration, 1; equaled guaranty.
- Green County Milling Co., Greensburg, Ky. Inspection sample of Corn Byproduct Feed analyzed, 1; deficient in protein and fat and excess fiber; misbranded.
- Gwinn Bros. & Co., Huntington, W. Va. Inspection samples analyzed, 2.
"Merit Brand" 16% Protein Dairy Feed, 1; deficient in fat; excess screenings refuse present

- "Gwinn's Grade A" 24% Protein Dairy Feed, 1; corn gluten feed and screenings refuse present tho not guaranteed.
- 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, 23.
- "Red Comb" Chick Starter, 1; corn gluten meal substituted for corn gluten feed.
- Morning Glory Chick Starter, 1; soybean oil meal present tho not guaranteed.
- Morning Glory Growing Mash, 1; deficient in protein; no charcoal found.
- "Red Comb" Growing Mash, 1; deficient in protein; no fish meal or charcoal found.
- "Red Comb" Broiler Mash, 2; no charcoal found; 1 corn gluten meal substituted for corn gluten feed.
- "Red Comb" Crate Fattener, 1; equaled guaranty.
- "Red Comb" Egg Mash, 2; 1 no charcoal found.
- Morning Glory Egg All-Mash, 1; equaled guaranty.
- "Red Comb" Universal, 1; corn gluten meal substituted for corn gluten feed; soybean oil meal present tho not guaranteed.
- "Red Comb" Turkey Breeder, 1; equaled guaranty.
- "Red Comb" Turkey Balancer (Supplement), 1; equaled guaranty.
- Victoria Rabbit Feed, 1; equaled guaranty.
- "Kingfalfa Brand" Horse Feed, 1; no barley found.
- Harvest Horse Feed, 1; no barley found.
- Pioneer Pig and Hog Feed, 1; no dried buttermilk found; alfalfa product present tho not guaranteed.
- Pioneer Hog Fattener, 2; 1 deficient in fat.
- Pioneer Hog Balancer 35% Protein (Supplement), 2; 1 deficient in fat and excess fiber
- "Red Horn" 24% Protein Dairy Feed, 2; 1 deficient in fat; 1 no ground corn found.
- The Hanley Milling Co., Mansfield, O. Inspection sample of Hanley's Flour Middlings and Screenings analyzed, 1; excess fiber.
- Arnold Hansford, Somerset, Ky. Inspection sample of Hansford's Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein and fat.
- Hanson Roller Mills, Hanson, Ky. Inspection sample of "White Frost" Wheat Mixed Feed and Screenings analyzed, 1; deficient in protein; wheat flour present.
- Hardyville Roller Mills, Hardyville, Ky. Inspection sample of Mixed Feed analyzed, 1; no corn meal found.

- J. C. Harris & Co., Atlanta, Ga. Inspection sample of 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.
- R. L. Harrison & Son, Bagdad, Ky. Inspection samples analyzed, 6.
Hominy Feed, 1; deficient in protein and fat and excess fiber; misbranded.
Harrison's Farm Feed, 1; equaled guaranty.
Harrison's Hen Scratch, 1; deficient in fat.
Harrison's 95% Grain Horse and Mule Feed, 1; deficient in protein and fat.
Harrison's Dry 16% Protein Dairy Feed, 1; deficient in fat; corn gluten feed present tho not guaranteed.
Harrison's 24% Protein Dairy Feed, 1; deficient in protein and fat.
- The P. H. Harsha Milling Co., Portsmouth, O. Inspection samples analyzed, 4.
"Purity Brand" Hominy Feed, 1; deficient in fat.
Magnolia Egg Mash, 1; deficient in fat; no corn gluten feed or linseed oil meal found; soybean oil meal present tho not guaranteed; misbranded.
Special 16% Protein Dairy Feed, 2; 1 no salt found.
- G. M. Haycraft & Son, Leitchfield, Ky. Inspection sample of Haycraft's All-Mash Starter and Grower analyzed, 1; equaled guaranty.
- Haydon Mill & Grain Co., Springfield, Ky. Inspection sample of "Economy Brand" Starting Mash analyzed, 1; equaled guaranty.
- The Heldt Co., Evansville, Ind. Inspection sample of "Thelco Ideal Brand" All-One Ration analyzed, 1; deficient in protein.
- Henderson County Farm Bureau, Henderson, Ky. Inspection samples of "Bureau Brand" Mineral Feed analyzed, 3; 2 excess salt.
- Henderson Elevator Co., Henderson, Ky. Inspection samples analyzed, 2.
Bullitt's Jersey Cream 16% Protein Dairy Feed, 1; deficient in fat.
Bullitt's Special 16% Protein Dairy Feed, 1; equaled guaranty.
- Hermitage Feed Mills, Nashville, Tenn. Inspection samples of "Big Pig" 40% Protein Hog Supplement analyzed, 3; no fish meal found; 2 ground corn product present tho not guaranteed.
- V. E. Herter & Co., Dayton, O. Inspection samples analyzed, 9.
"Economy Brand" Growing Mash, 1; excess fiber; corn gluten feed substituted for corn gluten meal.
Eagle Starting and Growing All-Mash, 1; excess fiber.
Yankee Laying Mash, 1; equaled guaranty.
Yankee Horse Feed, 1; excess fiber.
Yankee Hog Feed, 1; equaled guaranty.

- "Economy Brand" 16% Protein Dairy Feed, 2; equaled guaranty.
Eagle 24% Protein Dairy Feed, 2; equaled guaranty.
- Hodgenville Roller Mills, Hodgenville, Ky. Inspection sample of Lincoln Wheat Mixed Feed analyzed, 1; deficient in protein.
- Home Milling Co., Greenville, Ky. Inspection sample of Happy Home Mixed Feed analyzed 1; equaled guaranty.
- Hook Milling Co., Hardinsburg, Ky. Inspection sample of White Swan Mixed Feed analyzed, 1; equaled guaranty.
- Hopkinsville Milling Co., Hopkinsville, Ky. Inspection sample of Hominy Feed analyzed, 1; excess fiber.
- Horse Cave Mills, Horse Cave, Ky. Inspection samples analyzed, 4.
Wheat Bran and Shorts, 1; deficient in protein and fat.
"Superior Brand" Mixed Feed, 3; deficient in protein; 2 deficient in fat.
- Humphreys-Godwin Co., Memphis, Tenn. Inspection samples of "Dixie Brand" 41% Protein Cottonseed Meal analyzed, 5; 1 deficient in protein.
- Igleheart Bros., Evansville, Ind. Inspection sample of Winter Wheat Gray Shorts and Screenings analyzed, 1; equaled guaranty.
- Illinois Cereal Mills, Paris, Ill. Inspection samples of 11% Protein Hominy Feed analyzed, 4; equaled guaranty.
- J. F. Imbs Milling Co., Belleville, Ill. Inspection samples of "Charm" Wheat Gray Shorts and Screenings analyzed, 2; equaled guaranty.
- Jackson Cotton Oil Mill, Jackson, Tenn. Inspection samples of Bell Cow Brand 41% Protein Cottonseed Meal analyzed, 2; equaled guaranty.
- Jellico Grocery Co., Corbin, Ky. Inspection sample of Daisy Feed analyzed, 1; equaled guaranty.
- J. E. M. Milling Co. (Lexington Roller Mills Co.), Frankfort, Ky. Inspection samples analyzed, 7.
Capitol Stock Feed, 1; excess fiber; corn gluten feed, screenings refuse and corn cob present tho not guaranteed; misbranded.
Capitol 16% Protein Dairy Feed, 4; 1 deficient in fat.
Capitol 24% Protein Dairy Feed, 2; 1 excess fiber.
- Joy Milling Co., Elkton, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Kasco Mills, Toledo, O. Inspection samples analyzed, 17.
Apex Starter and Grower, 1; deficient in protein and excess fiber.
Kasco Growing Mash, 1; excess fiber.
Kasco All-Mash Chick Starter, 1; excess fiber.
Kasco Laying Mash, 1; ground barley present tho not guaranteed.
Oc-Sak Laying Mash, 1; corn gluten feed present tho not guaranteed.

- Apex Egg Mash, 1; equaled guaranty.
- Kasco Farm Feed, 2; equaled guaranty
- Oc-Sak Horse Feed, 1; barley present tho not guaranteed.
- Oc-Sak Hog Meal, 1; equaled guaranty.
- Apex Chop, 1; excess fiber.
- Kasco Sweet 16% Protein Dairy Feed, 4; 2 deficient in protein, no malt sprouts found; 2 excess fiber.
- Oc-Sak 24% Protein Dairy Feed, 1; equaled guaranty.
- Kasco Mormilk 24% Protein Dairy Ration, 1; equaled guaranty.
- Keco Milling Co., McKenzie, Tenn. Inspection samples analyzed, 17.
- 41% Protein Cottonseed Meal, 2; equaled guaranty.
- "Thrifty Brand" Laying Mash, 1; deficient in protein; no soybean oil meal or fish meal found; ground oats present tho not guaranteed; misbranded
- Keco "All Grain" Horse and Mule Feed, 1; deficient in fat.
- Keco 92% Grain Horse Feed, 1; no salt found; barley present tho not guaranteed.
- Keco Pig and Hog Feed, 5; 3 no linseed oil meal found.
- "Thrifty Brand" Hog Fatner, 3; 1 deficient in fat, ground soybeans present tho not guaranteed; 2 ground oats present tho not guaranteed; 1 ground barley present tho not guaranteed.
- Keco Sweet Feed, 1; deficient in protein; no cottonseed meal found; excess screenings present; misbranded.
- Keco 16% Protein Dairy Feed, 2; 1 deficient in fat; 1 ground corn present tho not guaranteed.
- Keco 24% Protein Dairy Feed, 1; deficient in fat.
- Keller Hay & Grain Co., Newport, Ky. Inspection samples analyzed, 3.
- Hominy Feed, 1; deficient in fat.
- Wheat Brown Middlings and Screenings, 1; equaled guaranty.
- Wheat Mixed Feed, 1; equaled guaranty.
- Kent & Co., Greenville, Miss. Inspection sample of Kent 60% Protein Tankage analyzed, 1; much deficient in fat; adulterated with cottonseed meal; misbranded.
- Kentucky Chemical Industries, Cincinnati, O. Inspection samples analyzed, 3.
- "K-C" Special 50% Protein Meat and Bone Scraps, 1; equaled guaranty.
- "K-C" 60% Protein Digester Tankage, 2; equaled guaranty.
- Kentucky Milling Co. (Acme Mills), Hopkinsville, Ky. Inspection samples analyzed, 2.
- "Black Bar Brand" Horse and Mule Feed, 1; equaled guaranty.
- "Silver Bar Brand" 16% Protein Dairy Feed, 1; equaled guaranty.
- The Kentucky Stone Co., Louisville, Ky. Inspection sample of "KSC 40-40-20" Mineral Mixture analyzed, 1; equaled guaranty.

- The Kroger Grocery & Baking Co., Cincinnati, O. Inspection samples analyzed, 14.
- Wesco Scratch Feed, 1; equaled guaranty.
 - Wesco Starting and Growing Mash, 2; 1 soybean oil meal present tho not guaranteed.
 - Wesco Egg Mash, 2; equaled guaranty.
 - Wesco 16% Protein Dairy Feed, 5; 3 excess screenings refuse present, misbranded.
 - Wesco 20% Protein Dairy Feed, 1; excess screenings refuse present; corn gluten feed present tho not guaranteed; misbranded.
 - Wesco 24% Protein Dairy Feed, 3; 1 deficient in fat; 1 ground barley present tho not guaranteed.
- Lake County Oil Mill, Tiptonville, Tenn. Inspection samples of 41% Protein Cottonseed Meal analyzed, 3; 1 deficient in protein.
- Lancaster Milling Co., Lancaster, Ky. Inspection samples analyzed, 7.
- Lamico Mixed Feed, 3; deficient in protein and excess fiber, misbranded; 2 ground barley present tho not guaranteed; 1 excess screenings present; 1 salt and calcium carbonate present tho not guaranteed.
 - 20% Protein Egg Mash, 1; deficient in protein.
 - Prestons Favorite Sheep Feed, 1; cottonseed meal present tho not guaranteed.
 - "Choice Brand" 16% Protein Dairy Feed, 1; no distillers dried grains found; corn bran and ground soybeans present tho not guaranteed; misbranded.
 - 24% Protein Dairy Feed, 1; much deficient in protein and fat; no distillers dried grains found; ground barley product present tho not guaranteed; misbranded.
- The Larabee Flour Mills Co., Kansas City, Mo. Inspection samples analyzed, 3.
- "Sunfed" Winter Wheat Gray Shorts and Screenings, 1; excess fiber.
 - "Sunfed" Winter Wheat Brown Shorts and Screenings, 1; equaled guaranty.
 - "Sunfed" Winter Wheat Mixed Feed and Screenings, 1; equaled guaranty.
- The Larowe Milling Co., Detroit, Mich. Inspection samples analyzed, 7.
- Larro Chick Builder, 1; equaled guaranty.
 - Larro Egg Mash, 1; equaled guaranty
 - Larro Pig and Hog Builder, 1; equaled guaranty.
 - Beet Pulp and Beet Molasses Dried, 1; equaled guaranty.
 - Larro 16% Protein Dairy Feed, 1; equaled guaranty.

- Larro The Ready Ration for Dairy Cows, 20% Protein, 1; equaled guaranty.
- Larro 32% Protein Dairy Feed Supplement, 1; equaled guaranty.
- Laswell Milling Co., Brodhead, Ky. Inspection sample of Wheat Mixed Feed analyzed, 1; deficient in protein and fat; wheat flour present.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Inspection samples analyzed, 3.
- “Snowflake” Wheat Gray Middlings and Screenings, 1; equaled guaranty.
- “Snowflake” Wheat Mixed Feed and Screenings, 2; equaled guaranty.
- Lewisport Mill Co., Lewisport, Ky. Inspection sample of “Farmers’ Choice” Feed analyzed, 1; equaled guaranty.
- Lexington Roller Mills Co., Lexington, Ky. Inspection samples analyzed, 22.
- Thoroughbred Wheat Bran, 1; equaled guaranty.
- Thoroughbred Mill Feed, 2; ground corn present tho not guaranteed; 1 deficient in protein and excess fiber.
- Ground Yellow Corn, 1; deficient in protein and excess fiber; excess corn bran present.
- “Kentucky Queen” Starting Mash, 2; 1 excess fiber.
- “Kentucky Queen” Growing and Developing Mash, 1; equaled guaranty.
- “Kentucky Queen” Starting and Growing All-Mash, 2; deficient in protein and fat.
- “Kentucky Queen” Egg Mash, 1; equaled guaranty.
- “Kentucky Queen” Double-X Egg Mash, 1; no skimmed milk found.
- “Kentucky Queen” Turkey Starting Mash, 1; equaled guaranty.
- “Kentucky Queen” Turkey Growing Mash, 1; equaled guaranty.
- Thoroughbred Hog Ration, 1; deficient in protein and fat; no distillers dried grains found.
- Thoroughbred Sheep Feed, 1; no barley products found.
- “Bossie” Feed, 2; deficient in fat; 1 excess fiber, no distillers dried grains found, soybean oil meal present tho not guaranteed.
- Thoroughbred 16% Protein Dairy Feed, 1; soybean oil meal present tho not guaranteed.
- Thoroughbred 20% Protein Dairy Feed, 1; equaled guaranty.
- Thoroughbred 24% Protein Dairy Feed, 3; equaled guaranty.
- Lincoln Milling Co., Crab Orchard, Ky. Inspection sample of “Blue Bird” Feed analyzed, 1; deficient in protein and excess fiber.

- The Loudonville Milling Co., Loudonville, O. Inspection sample of Soft Winter Wheat Brown Middlings and Screenings analyzed, 1; deficient in fat.
- Louisa Supply Co., Louisa, Ky. Inspection samples analyzed, 3.
Standard Feed, 2; equaled guaranty.
"Louisa L" 24% Protein Dairy Feed, 1; equaled guaranty.
- Louisville Cereal Mill Co., Louisville, Ky. Inspection samples analyzed, 7.
Nonesuch Hominy Feed, 5; 4 deficient in protein.
Nonesuch Feed, 2; 1 deficient in protein.
- Louisville Feed & Mineral Co., Louisville, Ky. Inspection samples analyzed, 2.
"Concentrated Success Brand" Minerals for Sheep, 1; much deficient in calcium and phosphorus; excess salt; adulterated and misbranded.
"Success Brand" Minerals for Hogs, 1; much deficient in calcium and phosphorus; excess salt; adulterated and misbranded.
- Louisville Provision Co., Louisville, Ky. Inspection sample of Luproco 50% Protein Digester Tankage analyzed, 1; equaled guaranty.
- L. B. Lovitt & Co., Memphis, Tenn. Inspection samples of "Lovit Brand" 41% Protein Cottonseed Meal analyzed, 4; 1 deficient in protein.
- Lyon & Greenleaf Co., Ligonier, Ind. Inspection sample of Waseo Wheat Gray Middlings analyzed, 1; deficient in protein.
- Madison Flour Mills, Madison, Ind. Inspection sample of Mixed Feed analyzed, 1; deficient in protein and excess fiber; oat hull feed and molasses present tho not guaranteed; misbranded.
- Marianna Sales Co., Memphis, Tenn. Inspection samples of "White Mule" 41% Protein Cottonseed Meal analyzed, 15; 3 deficient in protein.
- Marion Milling Co., Marion, Ky. Inspection samples of "Feeders Favorite" Mixed Feed analyzed, 2; 1 deficient in protein; 1 excess fiber.
- Markin Feed Co., Ironton, O. Inspection sample of Standard Feed and Screenings analyzed, 1; equaled guaranty.
- Mayfield Milling Co., Inc., Mayfield, Ky. Inspection samples of Corn By-product Feed analyzed, 2; deficient in fat; 1 deficient in protein, sample not as guaranteed, misbranded.
- Mayfield Sweet Feed Mill, Mayfield, Ky. Inspection sample of "State Leader" 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Gentry McCauley Seed Co., Versailles, Ky. Inspection samples analyzed, 2.
"Pleez-U" Sheep Feed, 1; ingredients not as guaranteed; misbranded.

- "Pleez-U" Dairy Feed, 1; deficient in protein and fat; ingredients not as guaranteed; misbranded.
- McKenzie Milling Co., McKenzie, Tenn. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; deficient in protein; wheat flour present.
- McMillen Feed Mills, Inc., 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, 10.
- Mohawk Hominy Feed, 1; deficient in protein and fat.
- "Premium Brand" Scratch Feed, 1; equaled guaranty.
- "Hard-to-Beat" Feed, 1; equaled guaranty.
- "Hi-Grade Brand" Feed, 2; equaled guaranty.
- "Reliable Brand" Hog Feed, 1; deficient in protein.
- "Good Value Brand" 16% Protein Dairy Feed, 2; equaled guaranty.
- "Reliable Brand" 24% Protein Dairy Feed, 2; 1 deficient in protein.
- Model Mills, Georgetown, Ky. Inspection samples of "Best Brand" Mixed Feed analyzed, 2; 1 deficient in protein.
- Monarch Milling Co., Kansas City, Mo. Inspection sample of Wheat Red Dog analyzed, 1; equaled guaranty.
- Monarch Milling Co., Mt. Sterling, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Moorman Manufacturing Co., Quincy, Ill. Inspection samples of Moorman's Hog Minerals analyzed, 2; equaled guaranty.
- Morris & Co., Chicago, Ill. Inspection sample of Morris 50% Protein Meat and Bone Scraps analyzed, 1; equaled guaranty.
- Mountain City Mill Co., Chattanooga, Tenn. Inspection samples of Blue Stock Mixed Feed analyzed, 3; 1 deficient in fat, no corn oil cake meal found.
- Mt. Vernon Milling Co., Mt. Vernon, Ind. Inspection samples of "Poco" Hominy Feed analyzed, 3; equaled guaranty.
- Mouton Rice Milling Co., Harrisburg, Ark. Inspection sample of Rice Bran analyzed, 1; equaled guaranty.
- Munfordville Milling Co., Munfordville, Ky. Inspection samples of Mixed Feed analyzed, 2; equaled guaranty.
- Murray Milling Co., Murray, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.
- Myers & Son, Glasgow, Ky. Inspection sample of Shipstuff analyzed, 1; deficient in protein.

- Nappanee Milling Co., Nappanee, Ind. Inspection sample of Nappanee Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Nashville Cotton Oil Mill Corporation, Nashville, Tenn. Inspection samples analyzed, 2.
36% Protein Cottonseed Feed, 1; equaled guaranty.
43% Protein Soybean Oil Meal, 1; equaled guaranty.
- National Milling Branch of National Biscuit Co., Toledo, O. Inspection sample of Tolio Wheat Flour Middlings and Screenings analyzed, 1; equaled guaranty.
- National Oats Co., E. St. Louis, Ill. Inspection samples analyzed, 9.
Corno Starting Mash, 1; equaled guaranty.
Corno Chick Mash—All-Mash Starting and Growing, 1; equaled guaranty.
Corno 20% Protein Laying Mash, 1; equaled guaranty.
Corno Pig Feed, 1; equaled guaranty.
Corno 40% Protein Hog Supplement, 2; equaled guaranty.
Corno Bulky Premium Feed, 1; equaled guaranty.
Corno 24% Protein Dairy Feed, 2; deficient in fat.
- National Stock Remedy Co., Chicago, Ill. Inspection sample of National Hog Powder analyzed, 1; no wormseed or poke found.
- Neville Milling Co., Arlington, Ky. Inspection sample of Mixed Feed analyzed, 1; much deficient in protein; excess corn product present.
- Nicholson Mills, Henderson, Ky. Inspection sample of "Numix" 90% Grain Horse and Mule Feed analyzed, 1; equaled guaranty.
- Noblesville Milling Co., Noblesville, Ind. Inspection sample of N. M. Co.'s Wheat Mixed Feed analyzed, 1; equaled guaranty.
- Nolin Milling Co., Nolin, Ky. Inspection samples analyzed, 6.
Wheat Red Dog Flour, 3; 2 deficient in protein; 1 deficient in fat.
Royal Shipstuff, 1; deficient in protein; wheat flour present.
Royal Mixed Feed, 2; 1 deficient in protein, wheat flour present.
- North American Fertilizer Co., Inc., Louisville, Ky. Inspection samples analyzed, 6.
"Nafco Brand" 50% Protein Meat Scraps, 2; equaled guaranty.
"Nafco Brand" 60% Protein Digester Tankage, 2; deficient in protein; small amount of salt present.
"Nafco Brand" Screened Cracked Corn, 2; equaled guaranty; not labeled.
- Chas. Nunn & Sons Milling Co., Evansville, Ind. Inspection samples analyzed, 5.
"Nunn Better" Wheat Gray Shorts and Screenings, 2; deficient in protein and fat; wheat flour present.
"Nunn Better" Baby Chick Scratch Feed, 1; equaled guaranty.

- "Sweet Sixteen" Dairy Ration No. 2, 2; no soybean oil meal found; 1 deficient in fat.
- Ohio Valley Mills, Lebanon Jct., Ky. Inspection sample of Wheat Brown Shorts analyzed, 1; deficient in protein; ground corn present; misbranded.
- Old Joe Distilling Co., Lawrenceburg, Ky. Inspection samples of 30% Protein Distillers Corn Dried Grains analyzed, 2; equaled guaranty.
- Owensboro Milling Co., Owensboro, Ky. Inspection samples analyzed, 12.
- Wheat Mixed Feed and Screenings, 2; 1 corn product present, misbranded.
- O-Mil-Co Laying Mash, 1; equaled guaranty.
- Star Horse Feed, 2; deficient in protein.
- D & H Stock Feed, 1; excess fiber.
- Star 16½% Protein Dairy Feed, 5; 2 deficient in fat.
- "TruTest Brand" 24% Protein Dairy Feed, 1; equaled guaranty.
- Paramount Feed Mills (Ferncliff Feed & Grain Co.), Louisville, Ky. Inspection samples analyzed, 3.
- Paramount 18% Protein Egg Mash, 1; equaled guaranty.
- Paramount 16% Protein Dairy Feed, 1; equaled guaranty.
- Paramount No. 1 Brand 24% Protein Dairy Feed, 1; equaled guaranty.
- Parksville Roller Mills, Parksville, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Pearl Packing Co., Inc., Madison, Ind. Inspection sample of "Pearl Brand" 50% Protein Meat Scraps analyzed, 1; equaled guaranty.
- S. T. Pease Jr. & Co., Memphis, Tenn. Inspection samples of Pease 41% Protein Cottonseed Meal analyzed, 2; equaled guaranty.
- Pembroke Roller Mills, Pembroke, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Penick & Ford, Ltd., Inc., Cedar Rapids, Ia. Inspection samples analyzed, 2.
- Douglas Sweetened Corn Gluten Feed, 1; equaled guaranty.
- Douglas Corn Oil Meal, 1; equaled guaranty.
- Perfection Foods Co., Battle Creek, Mich. Inspection samples of "Perfection Brand" Dog Feed analyzed, 2; 1 no soybean oil meal, kelp meal or salt found.
- Phoenix Flour Mills, Evansville, Ind. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; deficient in protein.
- Phoenix Milling Co., Providence, Ky. Inspection samples of Mixed Feed analyzed, 4; 3 deficient in protein.
- R. C. Poage Milling Co., Ashland, Ky. Inspection samples analyzed, 12.
- Pomco Complete Growing Mash, 1; soybean oil meal present tho not guaranteed.

- Pomco All-Mash Starter and Grower (With Cod Liver Oil), 1; soybean oil meal present tho not guaranteed.
- Pomco 20% Protein Laying Mash (With Cod Liver Oil), 1; ground soybeans substituted for soybean oil meal.
- Pomco Hog and Pig Feed (Complete Ration), 1; soybean oil meal present tho not guaranteed.
- Ideal Brand Stock Feed, 1; equaled guaranty.
- Vim 16% Protein Dairy Feed, 2; 1 no distillers dried grains found; 1 no malt sprouts found.
- Pomco 16% Protein Dairy Feed, 3; 2 ground soybeans substituted for soybean oil meal.
- Pomco 24% Protein Dairy Feed, 1; ground soybeans substituted for soybean oil meal.
- Vim 24% Protein Dairy Feed, 1; equaled guaranty.
- Pratt Food Co., Hammond, Ind. Inspection samples analyzed, 9.
- Pratts Starter and Grower, 1; equaled guaranty.
- Utility Growing Mash, 1; equaled guaranty.
- Pratts Special Fattening Mash, 1; excess fiber.
- Utility Laying Mash, 1; equaled guaranty.
- Pratts Cak-Cak Egg Mash, 1; equaled guaranty.
- Pratts Turkey Starter, 1; soybean oil meal present tho not guaranteed.
- "Pratts C-Ka-Gene Brand" Ration, 1; no fish meal found.
- Pratts Sweet 16% Protein Dairy Feed, 1; no malt sprouts found.
- Utility Sweet 24% Protein Dairy Feed, 1; equaled guaranty.
- Purcell Seed Co., Evansville, Ind. Inspection samples of "New Idea" All-Mash Poultry Ration analyzed, 2; equaled guaranty.
- The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 8.
- "Ful-O-Pep" Broiler Mash, 1; equaled guaranty.
- Quaker Green Cross Horse Feed, 1; equaled guaranty.
- Quaker Oat Hull Feed and Molasses, 2; equaled guaranty.
- "Vim Brand" Oat Hull Feed and Molasses, 2; equaled guaranty.
- Quaker Schumacher Sweet Feed, 1; equaled guaranty.
- Quaker 24% Protein Dairy Ration, 1; equaled guaranty.
- Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 33.
- Purina Chick Startena, 2; equaled guaranty.
- Purina Chick Growena (All-Mash), 1; equaled guaranty.
- Purina Broiler Chow, 1; equaled guaranty.
- Purina Lay Chow, 1; equaled guaranty.
- Purina Layena (Complete Ration), 1; equaled guaranty.
- Purina Turkey-Chicken Fatena Checkers, 1; equaled guaranty.
- Purina Turkey Startena, 1; equaled guaranty.
- Purina Turkey Growena, 1; ground oat product and calcium carbonate present tho not guaranteed.

- "Sweet Sixteen" Dairy Ration No. 2, 2; no soybean oil meal found; 1 deficient in fat.
- Ohio Valley Mills, Lebanon Jct., Ky. Inspection sample of Wheat Brown Shorts analyzed, 1; deficient in protein; ground corn present; misbranded.
- Old Joe Distilling Co., Lawrenceburg, Ky. Inspection samples of 30% Protein Distillers Corn Dried Grains analyzed, 2; equaled guaranty.
- Owensboro Milling Co., Owensboro, Ky. Inspection samples analyzed, 12.
- Wheat Mixed Feed and Screenings, 2; 1 corn product present, misbranded.
- O-Mil-Co Laying Mash, 1; equaled guaranty.
- Star Horse Feed, 2; deficient in protein.
- D & H Stock Feed, 1; excess fiber.
- Star 16½% Protein Dairy Feed, 5; 2 deficient in fat.
- "TruTest Brand" 24% Protein Dairy Feed, 1; equaled guaranty.
- Paramount Feed Mills (Ferncliff Feed & Grain Co.), Louisville, Ky. Inspection samples analyzed, 3.
- Paramount 18% Protein Egg Mash, 1; equaled guaranty.
- Paramount 16% Protein Dairy Feed, 1; equaled guaranty.
- Paramount No. 1 Brand 24% Protein Dairy Feed, 1; equaled guaranty.
- Parksville Roller Mills, Parksville, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Pearl Packing Co., Inc., Madison, Ind. Inspection sample of "Pearl Brand" 50% Protein Meat Scraps analyzed, 1; equaled guaranty.
- S. T. Pease Jr. & Co., Memphis, Tenn. Inspection samples of Pease 41% Protein Cottonseed Meal analyzed, 2; equaled guaranty.
- Pembroke Roller Mills, Pembroke, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in protein.
- Penick & Ford, Ltd., Inc., Cedar Rapids, Ia. Inspection samples analyzed, 2.
- Douglas Sweetened Corn Gluten Feed, 1; equaled guaranty.
- Douglas Corn Oil Meal, 1; equaled guaranty.
- Perfection Foods Co., Battle Creek, Mich. Inspection samples of "Perfection Brand" Dog Feed analyzed, 2; 1 no soybean oil meal, kelp meal or salt found.
- Phoenix Flour Mills, Evansville, Ind. Inspection sample of Wheat Gray Shorts and Screenings analyzed, 1; deficient in protein.
- Phoenix Milling Co., Providence, Ky. Inspection samples of Mixed Feed analyzed, 4; 3 deficient in protein.
- R. C. Poage Milling Co., Ashland, Ky. Inspection samples analyzed, 12.
- Pomco Complete Growing Mash, 1; soybean oil meal present tho not guaranteed.

- Pomco All-Mash Starter and Grower (With Cod Liver Oil), 1; soybean oil meal present tho not guaranteed.
- Pomco 20% Protein Laying Mash (With Cod Liver Oil), 1; ground soybeans substituted for soybean oil meal.
- Pomco Hog and Pig Feed (Complete Ration), 1; soybean oil meal present tho not guaranteed.
- Ideal Brand Stock Feed, 1; equaled guaranty.
- Vim 16% Protein Dairy Feed, 2; 1 no distillers dried grains found; 1 no malt sprouts found.
- Pomco 16% Protein Dairy Feed, 3; 2 ground soybeans substituted for soybean oil meal.
- Pomco 24% Protein Dairy Feed, 1; ground soybeans substituted for soybean oil meal.
- Vim 24% Protein Dairy Feed, 1; equaled guaranty.
- Pratt Food Co., Hammond, Ind. Inspection samples analyzed, 9.
- Pratts Starter and Grower, 1; equaled guaranty.
- Utility Growing Mash, 1; equaled guaranty.
- Pratts Special Fattening Mash, 1; excess fiber.
- Utility Laying Mash, 1; equaled guaranty.
- Pratts Cak-Cak Egg Mash, 1; equaled guaranty.
- Pratts Turkey Starter, 1; soybean oil meal present tho not guaranteed.
- "Pratts C-Ka-Gene Brand" Ration, 1; no fish meal found.
- Pratts Sweet 16% Protein Dairy Feed, 1; no malt sprouts found.
- Utility Sweet 24% Protein Dairy Feed, 1; equaled guaranty.
- Purcell Seed Co., Evansville, Ind. Inspection samples of "New Idea" All-Mash Poultry Ration analyzed, 2; equaled guaranty.
- The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 8.
- "Ful-O-Pep" Broiler Mash, 1; equaled guaranty.
- Quaker Green Cross Horse Feed, 1; equaled guaranty.
- Quaker Oat Hull Feed and Molasses, 2; equaled guaranty.
- "Vim Brand" Oat Hull Feed and Molasses, 2; equaled guaranty.
- Quaker Schumacher Sweet Feed, 1; equaled guaranty.
- Quaker 24% Protein Dairy Ration, 1; equaled guaranty.
- Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 33.
- Purina Chick Startena, 2; equaled guaranty.
- Purina Chick Growena (All-Mash), 1; equaled guaranty.
- Purina Broiler Chow, 1; equaled guaranty.
- Purina Lay Chow, 1; equaled guaranty.
- Purina Layena (Complete Ration), 1; equaled guaranty.
- Purina Turkey-Chicken Fatena Checkers, 1; equaled guaranty.
- Purina Turkey Startena, 1; equaled guaranty.
- Purina Turkey Growena, 1; ground oat product and calcium carbonate present tho not guaranteed.

- Purina Turkey Layena (Complete Ration), 1; equaled guaranty.
- Purina Dog Chow Checkers, 1; equaled guaranty.
- Purina Rabbit Chow (Complete Ration), 1; equaled guaranty.
- Purina Omolene, 2; equaled guaranty.
- Purina Hog Fatena, 2; equaled guaranty.
- Purina Complete Sow and Pig Chow Ration, 1; equaled guaranty.
- Purina Sow and Pig Chow 26% Protein Supplement, 2; equaled guaranty.
- Purina Hog Chow 36% Protein Supplement, 1; equaled guaranty.
- Purina Calf Startena, 2; equaled guaranty.
- Purina Bulky Las Chow, 1; equaled guaranty.
- Purina Dry and Freshening Chow, 1; equaled guaranty.
- "Protena Brand" 16% Protein Dairy Feed (Southern States), 2;
1 no linseed oil meal found, screenings refuse present tho not guaranteed.
- Purina Milk Chow 18% Protein (For Dairy Cows), 1; equaled guaranty.
- Purina Cow Chow 24% Protein, 3; equaled guaranty.
- Protena 24% Protein Dairy Feed, 2; 1 no linseed oil meal found.
- Purina Cow Chow 34% Protein Supplement, 1; equaled guaranty.
- Randolph Milling Co., Bandana, Ky. Inspection sample of O-Joy analyzed, 1; equaled guaranty.
- Read Phosphate Co., New Albany, Ind. Inspection samples of Read's Red Diamond 60% Protein Digester Tankage analyzed, 4; 3 excess fiber; 2 fish meal present.
- Reading Grain Co., Reading, O. Inspection sample of Reading Scratch Feed analyzed, 1; deficient in fat, degermed corn used; only small amount of buckwheat and kaffir corn present; misbranded.
- Red River Mills, Adairville, Ky. Inspection sample of Shipstuff analyzed, 1; deficient in protein and fat; corn meal present; misbranded.
- Reelfoot Alfalfa Co., Inc., Tiptonville, Tenn. Inspection sample of Alfalfa Leaf Meal analyzed, 1; deficient in protein and much excess fiber; misbranded.
- Renfro Supply Co., Williamsburg, Ky. Inspection samples of Renfro's Special 17% Protein Dairy Feed analyzed, 2; 1 deficient in protein, wheat bran and ground barley present tho not guaranteed; 1 excess fiber, wheat middlings and alfalfa meal present tho not guaranteed.
- R. D. Riedling, Louisville, Ky. Inspection sample of Magnolia Chick Feed analyzed, 1; deficient in protein and fat; ingredients not as guaranteed; misbranded.
- Ripy Bros. Distillers, Lawrenceburg, Ky. Inspection sample of Distillers Corn Dried Grains analyzed, 1; equaled guaranty.

- Robinson Milling Co., Somerset, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Rocky Hill Milling Co., Rocky Hill, Ky. Inspection samples of Mixed Feed analyzed, 2; 1 deficient in protein, wheat flour present.
- Royal-Stafolife Mills, Memphis, Tenn. Inspection samples analyzed, 2.
"Sunrise Brand" Hog Ration, 1; excess fiber; no tankage or rice bran found.
- "Staf-O-Life Brand" 40% Protein Hog Supplement, 1; no linseed oil meal found.
- Rush County Mills, Rushville, Ind. Inspection samples analyzed, 10.
Hominy Feed, 2; 1 excess fiber.
- "RCM" Hen Scratch, 1; deficient in protein and fat, degermed corn used; no buckwheat found; misbranded.
- "Imperial Brand" Egg Mash, 1; no charcoal found.
- "RCM" 16% Protein Dairy Feed, 3; 1 no corn gluten feed or cottonseed hulls found, ground oats present tho not guaranteed, misbranded.
- "RCM" 20% Protein Dairy Feed, 1; deficient in protein and fat and excess fiber; no linseed oil meal found; misbranded.
- "RCM" 24% Protein Dairy Feed, 2; deficient in fat; 1 deficient in protein, inferior ingredients used, misbranded.
- Russell Milling & Coal Co., Morristown, Tenn. Inspection sample of Rusco Feed analyzed, 1; deficient in protein; wheat flour present.
- Salt Lick Roller Mills, Salt Lick, Ky. Inspection samples of "Perfect Brand" X Mixed Feed analyzed, 2; 1 deficient in protein.
- Sandusky Bros., Harrodsburg, Ky. Inspection sample of Mixed Feed analyzed, 1; no corn bran found.
- Sandy Valley Grocery Co., Ashland, Ky. Inspection sample of "Economy" Special 16% Protein Dairy Feed analyzed, 1; equaled guaranty.
- Schreiber Milling & Grain Co., St. Joseph, Mo. Inspection sample of "Sweet Lassy" Feed analyzed, 1; equaled guaranty.
- Schultz, Baujan & Co., Beardstown, Ill. Inspection samples analyzed, 2.
Critic Wheat Mixed Feed and Screenings, 1; equaled guaranty
Critic Pork Maker, 1; equaled guaranty.
- Scioto Farm Bureau Cooperative Association, Lucasville, O. Inspection sample of Scioto Feed analyzed, 1; equaled guaranty.
- The Scott County Milling Co., Sikeston, Mo. Inspection samples analyzed, 2.
"Gristo" Wheat Gray Shorts and Screenings, 1; equaled guaranty.
"Semo" 16% Protein Dairy Feed, 1; equaled guaranty.
- Sebree Milling Co., Sebree, Ky. Inspection samples analyzed, 3.

- Cream Patent Feed, 2; 1 deficient in protein and fat, wheat flour present.
- Korb's Heavy Mixed Feed, 1; deficient in protein and fat; wheat flour present.
- Shepherdsville Roller Mills, Shepherdsville, Ky. Inspection sample of Bullitt Feed analyzed, 1; deficient in protein and fat; wheat flour present.
- Slaughters Milling Co., Slaughters, Ky. Inspection sample of Mixed Feed analyzed, 1; deficient in fat.
- J. Allen Smith & Co., Knoxville, Tenn. Inspection samples analyzed, 2.
"Peerless Brand" Feed, 1; equaled guaranty.
"Butterfat Brand" Feed, 1; equaled guaranty.
- Smiths Grove Milling Co., Smiths Grove, Ky. Inspection samples of Mixed Feed analyzed, 2; equaled guaranty
- The Southern Cotton Oil Co., Atlanta, Ga. Inspection sample of 41% Protein Cottonseed Meal analyzed, 1; deficient in protein.
- The Southern Cotton Oil Co., Memphis, Tenn. Inspection samples of "Gold Seal Brand" 41% Protein Cottonseed Meal analyzed, 2; equaled guaranty.
- Southern Star Roller Mills, Perryville, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Woodford Spears & Sons, Paris, Ky. Inspection samples of Bourbon Mixed Feed analyzed, 2; deficient in fat; 1 deficient in protein, ground wheat present.
- Spencer Kellogg & Sons, Buffalo, N. Y. Inspection samples analyzed, 3.
Kellogg's 37% Protein Old Process Linseed Meal, 1; equaled guaranty.
Kellogg's 41% Protein Soybean Oil Meal, 2; equaled guaranty.
- The George T. Stagg Co., Frankfort, Ky. Inspection sample of Distillers Corn Dried Grains analyzed, 1; deficient in protein.
- A. E. Staley Manufacturing Co., Decatur, Ill. Inspection samples analyzed, 6.
Staley's Corn Gluten Feed, 1; equaled guaranty.
Staley's 41% Protein Soybean Oil Meal, 5; equaled guaranty.
- Staley Milling Co., Kansas City, Mo. Inspection samples analyzed, 2.
Four Bells Growing Mash (With Cod Liver Oil), 1; no ground barley or dried milk products found.
Red Bird Egg Mash (With Cod Liver Oil), 1; no fish meal or dried milk products found.
- Star Milling Co., Inc., Clinton, Ky. Inspection samples analyzed, 4.
Wheat Gray Shorts, 1; equaled guaranty.
Special Horse and Mule Feed, 1; ingredients not as guaranteed; misbranded.

- "Star Brand" 16% Protein Dairy Feed, 2; 1 no soybean oil meal found.
- Star Roller Mills, Cloverport, Ky. Inspection samples analyzed, 3.
Mixed Feed, 1; equaled guaranty.
- Star Laying Mash, 2; equaled guaranty.
- Sunnyside Milling Co., Evansville, Ind. Inspection samples analyzed, 2.
Winter Wheat Gray Shorts and Screenings, 1; excess fiber; misbranded.
- Winter Wheat Mixed Feed and Screenings, 1; equaled guaranty
- Sunup Mill Feed Co., E. St. Louis, Ill. (Joe Schafer & Sons, Springfield, Ill.) Inspection sample of "Sunup Brand" 16% Protein Dairy Feed analyzed, 1; deficient in fat; no linseed oil meal or brewers dried grains found; adulterated with oat hull feed; misbranded.
- Superior Foods Co., Battle Creek, Mich. Inspection sample of "Superior Brand" Cereal Dog and Fox Feed, 1; equaled guaranty.
- The Superior Feed Co. (Royal-Stafolife Mills), Memphis, Tenn. Inspection sample of "Laymo Brand" Egg Mash analyzed, 1; equaled guaranty.
- D. B. Sutherland & Son, Bloomfield, Ky. Inspection sample of Sutherland's Mixed Feed analyzed, 1; deficient in protein; wheat flour present.
- Swift & Co., Chicago, Ill. Inspection samples analyzed, 4.
Swift's Dried Buttermilk, 3; equaled guaranty.
Swift's 50% Protein Meat and Bone Scraps, 1; deficient in protein.
- Swift & Co., Moultrie, Ga. Inspection sample of 60% Protein Digester Tankage analyzed, 1; equaled guaranty.
- Swift & Co., Cairo, Ill. Inspection samples of "Cotton Bloom" 41% Protein Cottonseed Meal analyzed, 2; 1 deficient in protein.
- Swift & Co. Oil Mill, Memphis, Tenn. Inspection samples of "Cotton Bloom" 41% Protein Cottonseed Meal analyzed, 9; 2 deficient in protein.
- Swift & Co. Soybean Mill, Champaign, Ill. Inspection samples of Swift's 41% Protein Soybean Oil Meal analyzed, 2; equaled guaranty.
- Tell City Flouring Mills, Tell City, Ind. Inspection samples analyzed, 3.
Hoosier Special Wheat Brown Shorts and Screenings, 1; much deficient in protein and fat; corn feed meal present; misbranded.
- Hoosier Egg Producer Mash, 1; deficient in protein; cottonseed meal present tho not guaranteed.

- Hoosier Special-Mix Feed, 1; deficient in protein; no cottonseed meal found; soybean oil meal present tho not guaranteed.
- Thomson's Mill, Madisonville, Ky. Inspection samples analyzed, 5.
- Star Mixed Feed, 1; deficient in protein.
- "Ideal Brand" Egg Mash, 1; deficient in protein.
- "Eighty-Five" Horse and Mule Feed, 1; deficient in protein.
- "Thomson's Ideal Brand" 16% Protein Dairy Feed, 2; no cottonseed hulls found; 1 deficient in fat, no cottonseed meal found, excess oat hull feed present; 1 no soybean oil meal found.
- Trenton Cotton Oil Co., Trenton, Tenn. Inspection samples of "Trenton Brand" 41% Protein Cottonseed Meal analyzed, 2; 1 excess fiber.
- Tyner Milling Co. (Hermitage Feed Mills), Nashville, Tenn. Inspection samples analyzed, 2.
- "Hi-Grade Brand" Starting Mash, 1; equaled guaranty.
- "Hi-Grade Brand" Egg Mash, 1; ingredients not as guaranteed; misbranded.
- The Ubiko Milling Co., Cincinnati, O. Inspection samples analyzed, 26.
- White Hominy Feed, 1; deficient in fat.
- Ubiko Chick Feed, 1; equaled guaranty.
- Ubiko All-Mash Starter, 1; equaled guaranty.
- Ubiko All-Mash Broiler Ration, 2; equaled guaranty.
- Ubiko All-Mash Developer, 1; equaled guaranty.
- Ubiko All-Mash Complete Laying Ration, 1; equaled guaranty.
- Ubiko Egg Mash, 1; equaled guaranty.
- Sunbeam Laying Mash, 1; equaled guaranty.
- Ubiko Mash Balancer, 1; equaled guaranty.
- Ubiko Turkey Growing Ration, 2; equaled guaranty.
- Ubiko Turkey Starter and Grower, 1; equaled guaranty.
- Life Guard Dog Feed, 1; deficient in protein.
- Ubiko Pig and Sow Ration, 1; no dried buttermilk found.
- Ubiko 36% Protein Hog Supplement, 1; ground oat product present tho not guaranteed.
- Honeycomb Sweet Feed, 1; equaled guaranty.
- Clover Bloom Sweet 16% Protein Feed, 4; 2 no corn gluten feed found; 3 no cottonseed meal found; 3 excess oat hull feed present, misbranded.
- 20% Protein Sunbeam Dairy Ration, 1; equaled guaranty.
- 24% Protein Sunbeam Dairy Ration, 1; equaled guaranty.
- 24% Protein Dry Union Grains Dairy Ration, 1; equaled guaranty.
- 24% Protein Sweet Union Grains Dairy Ration, 1; equaled guaranty.
- 32% Protein Sweet Union Grains Dairy Ration (Supplement), 1; equaled guaranty.

- The United Supply Co., Lynch, Ky. Inspection sample of Usco 24% Protein Dairy Feed analyzed, 1; deficient in protein; no corn gluten feed found.
- Van Meter-Terrell Feed Co., Lexington, Ky. Inspection samples analyzed, 2.
- Viola Sheep Feed, 1; equaled guaranty.
- Viola 20% Protein Cow Feed, 1; equaled guaranty.
- Vevay Flour Mills, Vevay, Ind. Inspection sample of Wheat Bran analyzed, 1; deficient in protein.
- C. F. Vissman & Co., Louisville, Ky. Inspection samples of Vissman's 60% Protein Digester Tankage analyzed, 3; equaled guaranty.
- Walton Feed Mills, Walton, Ky. Inspection sample of Big Bone Hog Ration analyzed, 1; deficient in fat.
- Washburn Crosby Co., Louisville, Ky. Inspection samples analyzed, 3.
- "Sonny South" Wheat Bran, 1; equaled guaranty.
- "Sonny South" Wheat Brown Shorts and Screenings, 2; equaled guaranty.
- Weis Packing Co., Maysville, Ky. Inspection sample of Weis 50% Protein Digester Tankage analyzed, 1; much deficient in protein; misbranded.
- Weisenberger Sanitary Flour Mills, Midway, Ky. Inspection samples analyzed, 7.
- "Repeater" Feed, 5; 3 deficient in protein; 1 deficient in fat.
- "Live and Gro" Starting and Growing Mash, 1; soybean oil meal present tho not guaranteed.
- "Repeater" 24% Protein Dairy Feed, 1; ingredients not as guaranteed; misbranded.
- West Louisville Mills, West Louisville, Ky. Inspection sample of C & W Mixed Feed analyzed, 1; deficient in protein.
- West Ninth Street Mill, Owensboro, Ky. Inspection sample of "Quality Brand" 20% Protein Egg Mash analyzed, 1; equaled guaranty.
- Wiedlocher & Sons, Springfield, Ill. Inspection samples analyzed, 8.
- "Faultless Brand" Starting and Growing Mash, 1; equaled guaranty.
- "Faultless Brand" Growing Mash, 1; linseed oil meal and soybean oil meal present tho not guaranteed.
- "Faultless Brand" Egg Mash, 1; no linseed oil meal found.
- "Faultless Brand" 19% Protein Hog Feed, 1; equaled guaranty.
- Congress 16% Protein Dairy Feed, 4; 2 excess screenings refuse present, linseed oil meal present tho not guaranteed, misbranded; 1 ground barley product present tho not guaranteed.
- Williamstown Roller Mills, Williamstown, Ky. Inspection samples analyzed, 2.

- Mixed Feed, 1; equaled guaranty.
- "White Top" Egg Mash, 1; deficient in protein; no corn gluten meal found.
- Winchester Milling Co., Winchester, Ky. Inspection samples of "Perfection Brand" Feed analyzed, 2; deficient in protein; excess corn product present.
- Winn & Tobin Milling Co., Leitchfield, Ky. Inspection samples of Soft Wheat Mixed Feed analyzed, 2; 1 deficient in protein.
- The Witte Milling Co., Dale, Ind. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.
- Woolcott Flour Co., Winchester, Ky. Inspection sample of Aztec Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.
- Woolcott Milling Co., Harrisburg, Ill. Inspection samples analyzed, 3. Woolcott's Wheat Gray Shorts, 1; deficient in protein and fat; wheat flour present.
- Mixed Feed, 2; equaled guaranty.
- J. W. Zaring Grain & Mill Co., Richmond, Ky. Inspection sample of Bonanza Feed analyzed, 1; deficient in protein; excess corn bran present.
- Ziliak & Schafer Milling Co., Evansville, Ind. Inspection samples analyzed, 4.
- Target Egg Mash, 1; equaled guaranty.
- "Lamey's Life Cycle" Mash, 1; deficient in protein.
- Lamey's 40% Protein Hog Balancer (Supplement), 1; equaled guaranty.
- Lamey's Special 16% Protein Dairy Feed, 1; equaled guaranty.