

Commercial Feeds in Kentucky
1959



What the Microscopist Sees

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INTRODUCTION

This bulletin contains the results of inspection and analyses of samples of commercial feeds sold in Kentucky during the calendar year 1959 and other information helpful to those interested in this field.

During this period, 578,148 tons of commercial feed were reported as distributed in the state of Kentucky. Of this tonnage, approximately 3/4 was mixed feed or formula feed and 1/4 straight products, such as, soybean products, wheat products, etc.

In the mixed feed category, poultry mashes accounted for over 40% of the total with dairy feed and swine feed tying for second place each accounting for approximately 20%. In straight products, wheat products lead in importance, followed by corn products, molasses and soybean products. These figures are given in the table on page 11 of this publication.

Since 1920, the tonnage of all feeds sold in Kentucky has increased from around 200,000 tons to over 600,000 tons. It has fluctuated around 600,000 tons during and since the period of World War II. A table showing the tonnages of feeds by types by years for most of the years since 1920 is available by writing to the Department of Feed and Fertilizer.

During the year 1959, 4,347 samples of feed were secured by inspectors. This is the largest number of samples taken in any one year. With this large number of samples and the larger number of analyses involved, detailed published quarterly reports on all samples was discontinued. Instead, the number of samples for each company found to be satisfactory is indicated by total only (Table 1). Those samples that were unsatisfactory are listed in Table 2, beginning on page 24.

MICROSCOPIC EXAMINATION OF FEEDS

(See Cover)

It is important that the guarantee placed on a bag of feed be a true picture of the contents of that bag.

The use of the microscope as a means of identifying the ingredient content of a feed was in the minds of those interested in the Kentucky Feed Law as it was first considered in 1906. After the law had passed the legislature and while it was awaiting signature on the Governor's desk, Dr. M. A. Scovel, Director of the Kentucky Agricultural Experiment Station, wrote a letter to Mr. Benjamin Hart, of St. Louis, Missouri, in which he said: "In all probability we will need an assistant chemist * * * I have you in mind. * * * There is a question on whether the chemist for this work should not be a microscopist also. * * * Have you had any microscopic work to do and could you take up that work in case you came with us?"

Mr. Hart subsequently accepted the position offered by Dr. Scovel and he became the first person employed having this specific responsibility. The work of feed microscopy in Kentucky from 1906 through 1917 was carried on by one or more chemists or botanists here at the Kentucky Agricultural Experiment Station as a part of other work. In 1918 the first full-time microscopist was employed and since that date Kentucky has had seven full-time feed microscopists.

Kentucky, therefore, was one of the pioneers in this method of analysis. Nearly all states now use some form of microscopic analysis along with the chemical analysis. It has proven to be as valuable to the farmer and honest manufacturers as any other form of analysis. The farmer is assured the feed he is buying is as represented. To the manufacturer, it offers protection against unfair and unscrupulous competition.

UREA

The following information may be of some help to manufacturers and feeders using urea.

Urea is a white crystalline powder made by combining ammonia and carbon dioxide under pressure in equipment that will withstand high temperature.

Urea contains 46.5% nitrogen, which is equivalent to 291% protein. The commercial product "262" Feed Compound, is urea which has been diluted with other materials to prevent caking, and contains 42% nitrogen which is equivalent to 262% protein. The addition of 1 percent of this material to a dairy feed is equivalent to adding 2.62% protein. Besides urea's protein equivalent value, one must also consider its lack of energy value as compared to the common high protein feeds. An example of this, if the nitrogen in urea is used as efficiently as the nitrogen in high protein feeds, it will require approximately 14 pounds of urea, plus 100 pounds of grain to replace 100 pounds of soybean oilmeal.

Urea, when used as an ingredient in feeds sold in Kentucky is shown in the guaranteed analysis as follows: Crude Protein _____%. This includes not more than _____% equivalent crude protein from non-protein nitrogen. Crude Fat _____%. Crude Fiber _____%. One percent of "262 Feed Compound" would be 2.62% equivalent protein from non-protein nitrogen. Urea should be shown as an ingredient under "Ingredients".

Cattle, sheep, and goats are able to convert urea to a usable form through the action of micro-organisms in the rumen. The organisms convert the nitrogen of urea to protein in their cell bodies which are in turn digested by the animal.

Horses, swine, dogs, and other single-stomach animals are unable to utilize urea.

The Association of American Feed Control Officials has a regulation to the effect that urea be used in such limited quantities as to insure the total amount present shall not exceed 3 percent of the (grain) ration or 1/3 of the total protein. If a feed contains more than 3 percent of urea, the label shall bear a statement of proper usage and the following in type of such conspicuousness as to render it likely to be read and understood by ordinary individuals under customary conditions of purchase and use.

WARNING: This feed should be used only in accordance with directions furnished on the label.

RECOMMENDATIONS FOR REGISTRATION AND PREPARATION
OF LABELS FOR MEDICATED FEEDS

A Medicated Feed is any feed which contains drug ingredients (a) intended or represented for the cure, mitigation, treatment or prevention of disease or animals other than man, or (b) intended to affect the structure or any function of the body of animals other than man. Excepted are feeds which supply antibiotics to the animal at a non-therapeutic level since the antibiotic is not then considered to be a drug.

A. Information Required on the Label. In addition to the information required for non-medicated feeds, medicated feeds are required to carry the following information in their labeling: (a) the purpose of the medication; (b) directions for use of the feed; (c) the names and amounts of all active drug ingredients; (d) a warning or caution statement for a withdrawal period when required for the particular drug contained in the feed and (e) warnings against misuse. It is suggested that the label include this information in the following form:

1. Net weight.
2. Brand name or trade name.
3. Product name (may include brand name and, for Types 1 and 2, the word "medicated").
4. Purpose (statement of the purpose of the medication and reference to directions for use).
5. Active drug ingredients (list of common names, not trade names, and percentage present, for each drug. Antibiotics are to be expressed in grams per pound and may also be in grams per ton).
6. Guaranteed analysis of the feed.
7. Feed ingredients (common name of each).
8. Name and address of manufacturer or registrant.
9. Detailed feeding directions (to be displayed prominently on either front or reverse side of the label). A check list follows:
 - a. Purpose (if necessary to clarify or amplify the above statement).
 - b. When to feed (specific period necessary for effective use).
 - c. How to feed, or mix for feeding (feeding method to be followed, i. e., free choice, sole ration, intermittent feeding, etc.; mixing directions for premixes, etc., should give proper level of medication for purpose intended).
 - d. Precautions (statement of precautions where misuse of the product may be injurious to animals or man).
 - e. Warning statement (a withdrawal period may be required for safety. With a mixture of drugs, use the longest period). See example below.
 - f. Other feeds (reference may be made to other feeds which have a part in a feeding program for the animal).

Suggested Warning and Caution Statements

1. Acetylaminothiazole for Poultry.
Warning -- Discontinue use at least 1 week before slaughtering birds for food to permit elimination of the drug from food.
2. Aminothiazole (2-Amino-5-Nitrothiazole) for Poultry.
Warning -- Discontinue use at least 1 week before slaughtering birds for food to permit elimination of the drug from the food.
3. Anthelmintics Containing Cadmium Oxide and Cadmium Anthranilate.
Caution -- Consult veterinarian before using in severely debilitated animals.
Warning -- Treated hogs must not be slaughtered for food for at least 30 days following treatment to permit elimination of cadmium residues from food.
4. Arsenicals (Organic, for Poultry and Swine).
Warning -- Do not administer to laying hens. Discontinue use at least 5 days before slaughtering animals for food consumption to permit elimination of the drug from the food.
The above warning concerning laying hens is not required on arsenic preparations that have been shown to leave no residue in eggs.
5. Dienestrol Diacetate for Poultry.
Warning -- Discontinue use at least 24 hours before slaughtering birds for food to permit elimination of the drug from the food.

6. Diethylstilbestrol in Animal Feeds.
Warning -- Discontinue use at least 48 hours before slaughtering animals for food to permit elimination of the drug from the food.
7. Glycarbylamide for Poultry.
Warning -- Do not feed to laying hens in production. Discontinue use at least 4 days before slaughtering birds for food to permit elimination of the drug from the food.
8. Nicarbazin for Poultry.
Warning -- Do not feed to laying hens in production. Discontinue use at least 4 days before slaughtering birds for food to permit elimination of the drug from the food.
9. Nithiazide for Poultry.
Warning -- Do not feed to laying hens in production. Discontinue use at least 24 hours before slaughtering birds for food to permit elimination of the drug from the food.

Required Warning Statements For Drugs Used With Certifiable
Antibiotics

3-Nitro-4-Hydroxyphenol Arsonic Acid (3-Nitro-4-Hydroxyphenylarsonic Acid) for Poultry and Swine.

Warning -- Do not administer to laying hens. Discontinue use 5 days before the treated animals are slaughtered for human consumption.

Chlortetracycline for Leptospirosis of Swine.

The following warning is required on preparations containing, per ton of feed, 400 grams of chlortetracycline:

Warning -- Discontinue use 10 days before the treated animals are slaughtered for human consumption.

Dienestrol Diacetate for Poultry.

Warning -- Do not use in laying hens. Discontinue use 24 hours before the treated birds are slaughtered for human consumption.

Diethylstilbestrol for Sheep.

Warning -- Discontinue use 48 hours before the treated animals are slaughtered for human consumption.

3,5-Dinitrobenzamide for Poultry.

Warning -- Do not feed to laying hens. Discontinue use 48 hours before the treated animals are slaughtered for human consumption.

Glycarbylamide (4,5-Imidazole-Dicarboxamide) for Chickens.

Warning -- Do not feed to laying hens. Discontinue use 4 days before the treated chickens are slaughtered for human consumption.

Hygromycin B for Swine.

Warning -- Discontinue use 48 hours before the treated swine are slaughtered for human consumption.

Nithiazide (1-ethyl-3-(5-Nitro-s-Thiazolyl) Urea) for Poultry.

Warning -- Do not feed to laying hens. Discontinue use 24 hours before treated birds are slaughtered for human consumption.

Nystatin for Turkeys.

Warning -- If used in laying hens, eggs are to be used for hatching purposes only.

B. Types of Labels. Labels for medicated complete feeds generally fall into four different types, as follows (sample formats are shown below):

Type 1 is for a feed which contains drug(s) for growth promotion and/or disease prevention, and which is to be fed continuously for an indefinite period. The product name is followed by the word "medicated" in letters at least half as tall as those of the product name. This type of label can be used for any drug-containing feed not included among the other types. Exempted from medicated labeling are feeds which contain non-therapeutic levels of antibiotics (those with less than 50 grams per ton usually qualify), since these are not classed as medicated. Salt to which an antibiotic is added for control of bloat is to carry a medicated (Type 1) label, except when the brand name includes specific disease-control terms, such as "anti-bloat".

Type 2 is for a feed which contains drug(s) at the treatment level, to be fed as the sole ration for a limited period of time. The word "medicated" appears

in the forepart of the product name, in letters of the same size as remainder of product name.

Type 3 is for a feed which contains hormone(s) or hormone-like substances (e. g., diethylstilbestrol). For feeds which contain a hormone plus other drugs, only the hormone is to appear in the product name. The product name "Stilbestrol Mixture" or "Stilbestrol Mixture in Doe's Feed" may be followed by the words, "Medicated for the prevention of _____" (or other statement of purpose) and then followed by the list and amounts of active drug ingredients. Feeds to which iodinated casein is added for stimulating milk production are to carry a hormone-type label (Type 3).

Type 4 is for a feed which contains drug(s) at the treatment level for a specific disease or condition. It differs from Type 2 only in that the product name indicates the purpose of the drug and the word "medicated" thus need not be a part of the product name (e. g., "Pig Wormer"). In labeling feeds which contain anthelmintics, use Type 1 label if feeding is to be continuous, Type 2 if feeding is to be intermittent, and Type 4 in either case if the product name includes the word "wormer".

C. Supplements or Premixes which contain drugs and which are to be diluted by mixing with other feeds before use are also covered by these four types of labels. The type of label to be used in each case will depend upon the purpose of the drug and directions for use of the finished feed after such dilution. If the resulting feed when diluted according to directions will contain non-therapeutic levels and no therapeutic claims are made, Type 1 label will be used, except for feeds containing only antibiotics. If the directions given are such that Type 2 as well as Type 1 can apply, then the Type 2 label must be used. Mixing or feeding directions for one or more uses should be provided on all containers, for wholesale as well as retail distribution (since wholesale products often get into retail channels). The following statement should also be added where applicable: "For other uses, see instructions provided by your supplier."

For supplements which contain only antibiotics, the directions for use determine whether medicated labeling is required. Suppose the supplement contains 400 grams of antibiotic per ton. If directions include dilution to 50 or more grams per ton before feeding, therapeutic claims should be made and the antibiotic(s) guaranteed under "Active Drug Ingredients." However, if directions are to dilute to 20 grams per ton before feeding and no therapeutic claims are made, the supplement is not regarded as a medicated feed.

D. Where to List Antibiotics on a Feed Label.

(a) If therapeutic claims for the antibiotic are made in the statement of purpose then the antibiotic should be listed among the "Active Drug Ingredients" irrespective of the amount present (even when less than 50 grams per ton).

(b) If only growth stimulation and/or feed efficiency is claimed for the antibiotic and the amount present is relatively high in a supplement which is to be diluted before use, the antibiotic may be guaranteed under "Guaranteed Analysis" along with vitamins, minerals, etc. In this case, the Food and Drug Administration does not consider it a drug even though the amount present may be large. However, for proper mixing or dilution of the supplement, the mixer or feeder may wish to know the kind and amount of antibiotic present.

(c) If only growth stimulation and/or feed efficiency is claimed for the antibiotic and the feed is not to be diluted before feeding, the antibiotic should be listed as "antibiotic feed supplement" among the feed ingredients. In this case, quantitative claims for the amount present are to be discouraged.

E. Submitting Copy for Registration. It is suggested that typed copy of proposed labeling for medicated feeds be submitted to State and Federal officials for comment before the copy is sent to the printer. This may save the cost of printing unacceptable labels.

Because drugs in feeds may result in tissue residues of the animals which consume the medicated feed, the assay of animal feeds is highly important along with warning statements indicating specific withdrawal times of medicated feeds. No drug or combination of drugs in feeds for animals should be submitted for registration unless a collaboratively tested method for the analysis of the drug in feeds of the type to be used is also submitted.

Code designations of numbers and/or letters may be used in the product name on the label as an aid to identification (see Type 1 label below), but printing in the margin (side-bar labeling) is discouraged. Two-digit numbers should not be used in such code designation, and the code chosen should in no way mislead or confuse the customer.

F. Sample Labels. Examples of the four types of labels are shown on pages 9 and 10. The drugs listed on these labels were selected only for illustrative purposes, and it is not intended to imply that they are preferred over other drugs which may be used for the same purpose.

**BLUE BIRD
TURKEY GROWER (EI)**

Medicated

A preventive against outbreaks of blackhead in turkey flocks when fed according to directions on this label.

Active Drug Ingredient (s)

2-Acetylamino-5-nitrothiazole -----0.015%

Guaranteed Analysis

INGREDIENTS

Manufactured by
BLUE BIRD FEED MILLS

MILLVILLE, KENTUCKY

100 LBS. NET WEIGHT

Type 1 Label

**BLUE BIRD
MEDICATED HOG
RATION (PDQ)**

For the treatment of infectious enteritis in swine when fed as directed on this label.

Active Drug Ingredients

Streptomycin...0.075 grams per lb. (as streptomycin sulfate)
Penicillin -----0.025 grams procaine penicillin per pound equivalent to 0.0156 grams penicillin G (Master Standard)
Arsanillic Acid -----0.01%

Guaranteed Analysis

INGREDIENTS

Manufactured by
BLUE BIRD FEED MILLS

MILLVILLE, KENTUCKY

100 LBS. NET WEIGHT

Type 2 Label

**BLUE BIRD
0.0011% DIETHYLSTIL-
BESTROL MIXTURE**

FOR FATTENING BEEF CATTLE

Feed at the rate of 2 lbs. per animal per day. Each pound contains 5 milligrams diethylstilbestrol.

CAUTION: Use Only as Directed

Active Drug Ingredient:
Diethylstilbestrol -----0.0011%

Incorporated in
BLUE BIRD STEER FEED

Guaranteed Analysis

INGREDIENTS

Manufactured by
BLUE BIRD FEED MILLS
MILLVILLE, KENTUCKY
100 LBS. NET WEIGHT

Type 3 Label

**BLUE BIRD
HOG WORMER**

3)

For the Removal of Large Roundworms (*Ascaris Lumbricoides*). Follow directions on other side of tag.

Active Drug Ingredient:
Cadmium Oxide -----0.015%

Guaranteed Analysis

INGREDIENTS

Manufactured by
BLUE BIRD FEED MILLS
MILLVILLE, KENTUCKY
100 LBS. NET WEIGHT

Type 4 Label

ESTIMATED TONNAGE OF SALES BY CLASS OF FEED,
KENTUCKY, 1959

<u>Mixed Feed</u>	<u>Tons</u>
Calf Feed	5,206
Cattle Feed	15,901
Dairy Feed	87,583
Dog & Cat Feed	10,794
Horse & Mule Feed	12,367
Mineral Feed	5,874
Pig & Hog Feed	86,216
Poultry Mashs	180,475
Rabbit Feed	1,717
Scratch Feed	12,619
Sheep Feed	1,684
Stock Feed	3,555
Turkey Mashs	6,840
Miscellaneous Mixed Feed	<u>14,381</u>
TOTAL MIXED FEED	<u>445,212</u>
<u>Straight Materials</u>	<u>Tons</u>
Alfalfa Products	2,600
Animal Products	8,253
Barley Products	169
Brewers Products	873
Corn Products	28,618
Cottonseed Products	7,887
Distillers Products	3,626
Linseed & Flax Products	198
Molasses	19,310
Oat Products	2,002
Soybean Products	19,135
Wheat Products	37,037
Miscellaneous Products	<u>3,228</u>
TOTAL STRAIGHT MATERIAL	<u>132,936</u>
GRAND TOTAL	<u>578,148</u>

AVERAGE COMPOSITION OF THE MORE COMMON FEEDSTUFFS

Feedstuff	Protein	Fats	Carbohydrates		Water	Ash
			Fiber	N. F. Extract		
Alfalfa Leaf Meal	21.0	2.8	16.0	40.5	7.7	12.0
Alfalfa Meal	14.0	2.0	30.0	36.0	9.0	9.0
Barley	12.0	2.0	5.4	67.3	10.6	2.7
Barley Feed	13.5	3.5	8.7	60.9	9.3	4.9
Beet Pulp, Dried	9.2	0.5	19.8	47.2	9.9	3.4
Blood, Dried	84.5	1.1	1.0	0.7	8.2	4.5
Bone Meal, Raw	26.0	5.0	1.0	2.5	6.4	59.1
Bone Meal, Steamed	7.5	1.2	1.5	3.2	5.7	81.3
Brewers Dried Grains	25.0	6.4	16.0	41.0	7.7	3.9
Buckwheat	10.8	2.5	10.5	62.3	12.0	1.9
Buttermilk, Dried	33.0	6.0	0.3	43.1	7.6	10.0
Buttermilk, Semi-Solid	13.4	3.0	0.0	15.9	65.0	2.7
Citrus Meal	5.9	3.1	11.5	62.7	9.9	6.9
Coconut Oil Meal	20.5	8.0	10.0	45.0	9.5	6.5
Corn	8.0	3.9	2.0	69.9	15.0	1.2
Corn Bran	9.7	7.3	9.2	62.0	9.4	2.4
Corn and Cob Meal	7.0	3.5	8.0	66.1	14.1	1.5
Crushed Ear Corn & Shucks	7.0	3.0	10.6	69.2	11.0	1.8
Corn Chop	8.0	3.5	2.0	71.0	14.0	1.5
Corn Feed Meal	8.0	4.5	3.0	71.0	11.4	2.0
Corn Germ Meal	21.0	9.0	9.0	50.7	7.0	3.3
Corn Gluten Feed	25.5	2.7	7.6	48.8	9.1	6.3
Corn Gluten Meal	43.1	2.0	4.0	39.8	8.6	2.5
Cottonseed Meal	41.5	6.3	10.4	28.1	7.2	6.5
Cottonseed Meal Solvent	41.1	2.1	11.0	31.1	9.2	6.8
Cottonseed Feed	34.6	6.3	14.1	31.5	7.6	5.9
Distillers Dried Grains, Corn	26.1	8.8	12.8	44.2	7.1	2.5
Distillers Dried Grains, Rye	24.4	5.6	11.5	48.3	6.1	22.4
Distillers Dried Solubles	28.5	9.6	4.4	42.5	7.0	7.4
Fish Meal	60.9	6.8	0.9	5.0	7.1	17.6
Flaxseed	24.0	35.9	6.3	24.0	9.2	4.3
Flaxseed Screenings Oil Feed	25.0	7.1	11.7	40.3	8.1	7.8
Hominy Feed	11.2	6.9	5.2	64.2	9.6	2.9
Lespedeza Seed	36.6	7.6	9.6	32.8	8.3	5.1
Linseed Oil Meal	35.4	5.8	8.2	36.0	9.0	5.6
Linseed Oil Meal Solvent	36.6	1.0	9.3	38.3	9.6	5.6
Malt Sprouts	26.8	1.3	14.2	44.3	7.4	6.0
Meat Scraps 55%	55.8	9.3	2.1	1.3	6.1	25.4
Meat & Bone Scraps, 50%	51.0	10.1	2.1	1.6	6.1	29.1
Molasses, Cane	3.0	0.0	0.0	61.7	25.7	6.1
Molasses, Beet	7.8	0.0	0.0	62.1	22.0	7.0
Oats	12.0	4.6	11.0	58.6	10.4	3.4
Oat Kernels	16.0	6.4	1.6	66.0	8.0	2.0
Oat Middlings	15.9	5.2	3.3	64.6	8.6	2.4
Peanut Kernels	30.4	47.7	2.5	11.7	5.4	2.3
Peanut Oil Meal	43.5	7.6	13.3	23.4	7.0	5.2
Peanut Oil Meal, Solvent	51.5	1.4	5.7	27.2	8.4	5.8
Peanut Skins	15.9	22.4	10.6	42.2	6.2	2.7
Rice Bran	12.5	12.5	12.5	44.0	9.0	9.5
Rye	11.8	1.8	1.8	73.2	9.4	2.0
Rye Middlings	16.6	3.4	5.2	61.2	9.8	3.8
Skimmed Milk, Dried	34.0	1.0	0.0	51.0	6.0	8.0
Sorghum Grains	9.5	3.4	2.0	72.2	12.0	1.9
Soybean (Seed)	36.5	17.5	4.3	26.5	9.9	5.3
Soybean Oil Meal	44.3	5.3	5.7	29.6	9.1	6.0
Soybean Oil Meal, Solvent	46.1	1.0	5.9	31.8	9.4	5.8

Average Composition of the More Common Feedstuffs, Continued

Feedstuff	Protein	Fats	Carbohydrates		Water	Ash
			Fiber	N.F. Extract		
Tankage, 60%	60.6	8.5	2.0	1.8	6.9	20.2
Tankage with Bone 50%	51.3	11.5	2.3	2.3	6.2	26.1
Wheat	10.5	1.7	2.8	72.9	10.2	1.9
Wheat Bran	14.0	3.5	9.5	56.9	10.1	6.0
Wheat Mixed Feed	13.5	3.5	7.5	60.2	10.1	5.2
Wheat Brown Middlings or Shorts	15.0	3.5	7.0	58.7	10.3	5.4
Wheat Gray Middlings or Shorts	15.0	3.5	6.0	60.6	10.5	4.4
Wheat Flour, Red Dog	16.0	3.5	3.0	66.4	8.5	2.6
Wheat Flour, Patent	10.9	1.3	0.4	74.7	12.3	0.5
Wheat Germ Meal	27.8	9.2	3.3	44.4	8.9	4.5
Grain Screenings (From Wheat)	10.5	1.7	2.8	70.8	9.6	4.6
Whey, Dried	12.2	0.8	0.2	70.4	6.5	9.9
Yeast Brewers, Dried	44.9	0.7	2.7	38.8	6.2	6.9
Yeast, Irradiated, Dried	48.7	1.1	5.5	32.2	6.4	6.4

ROUGHAGES

Alfalfa Hay	14.5	2.3	29.7	36.3	8.6	8.6
Blue Grass Hay	8.2	2.5	29.8	42.5	10.5	6.5
Clover Hay, White	14.4	2.4	22.5	40.9	12.0	7.8
Clover Hay, Red	11.8	2.6	27.3	40.1	11.8	6.4
Corn Stover, without ear	5.9	1.6	30.8	46.5	9.4	5.8
Corn Stover, with ear	7.8	2.2	27.1	47.6	8.9	6.4
Cowpea Hay	18.6	2.6	22.5	35.1	9.9	11.3
Fescue Hay	7.0	1.9	30.3	43.2	11.8	6.8
Lespedeza Hay	13.5	2.5	28.0	40.1	10.5	5.4
Soybean Hay	15.5	2.8	26.5	38.7	9.2	7.3
Timothy Hay	6.2	2.5	29.8	45.0	11.6	4.9

FILLERS

Alfalfa Stem Meal	11.5	1.3	36.3	34.8	9.0	7.1
Corn Cob	2.3	0.4	32.1	54.0	9.6	1.6
Corn Husk or Shuck	3.4	0.9	28.2	49.6	15.0	2.9
Cottonseed Hulls	3.9	1.0	45.5	37.2	9.7	2.7
Flax Plant By-Products	6.4	2.1	44.4	33.1	8.1	5.9
Oat Mill By-Product	5.6	1.8	27.9	50.8	7.6	6.3
Oat Hull Feed	3.5	1.5	32.5	49.3	7.6	5.6
Oat Hulls	3.0	1.0	35.0	47.7	6.8	6.5
Screenings*						
Chaff and dust**						

* Varies in quality from fair.

** Varies in quality from poor to worthless and even dangerous.

Miscellaneous Samples Analyzed in 1947-59

Feedstuff	Protein	Fat	Fiber
Activated Sewer Sludge	29.2	6.0	6.7
Alfalfa Silage	4.0	0.9	9.5
Barley Bran	15.2	5.2	14.9
Bluegrass Chaff	7.1	1.9	28.5
Bluegrass Screenings	6.7	2.0	26.1
Blackberry Seeds	9.6	---	----
Bread	12.5	5.3	0.7
Brewers Wet Grains	10.3	1.0	3.4
Buckwheat Feed & Hulls	9.6	2.9	22.4
Cake, Ground	4.8	9.9	1.5
Cob & Shuck Meal	3.2	0.6	31.6
Cookie Meal	7.7	8.6	0.8
Corn Blowings	8.7	1.9	15.7
Corn Fodder & Soybean Plant	10.1	3.9	17.0
Cracklings, Edible	67.1	28.1	1.1
Cracklings, Inedible	44.1	22.2	3.0
Distillers Thin Slop	1.4	---	----
Fescue Silage	2.8	1.3	8.9
Honey Suckle	2.8	0.02	6.0
Ice Cream Cones, Ground	9.2	1.5	0.7
Johnson Grass	7.8	0.8	37.6
Kale Seed	24.3	40.0	9.6
Korean Hay	13.9	---	----
Korean Screenings	21.9	3.6	20.8
Lespedeza Screenings	19.8	15.7	26.2
Lima Beans, Ground	21.5	1.5	6.1
Malt Hulls, Ground	10.3	1.8	22.5
Osage Orange Apple	2.5	4.3	1.7
Peanut Vine Meal	10.1	2.3	34.0
Popcorn, Ground	9.4	2.5	2.7
Popcorn, Popped and Crushed	8.4	12.8	2.9
Potato Flour	2.0	---	----
Potato Flakes	9.0	---	----
Rag Weed Seed	17.2	16.2	34.4
Sorghum, Ground (Stalk & Leaves)	4.1	2.9	19.6
Ground Unthreshed Heads of Grain Sorghum	6.4	2.1	10.5
Fescue & Clover Silage	2.0	1.0	8.0
Oat Silage	1.9	1.5	9.8
Straw Silage	6.5	3.0	19.5
Sudan Grass Silage	5.9	1.1	14.0
Sudan & Soybean Silage	2.4	0.6	7.9
Vetch Seed	26.4	0.7	7.6
Walnut Shells & Meats	13.2	24.2	27.1
Walnut Meat Skins & Small Amount of Shell	21.5	45.5	12.0
Wheat Toast, Ground	12.6	4.9	0.5
Wild Onions	6.7	0.2	1.0
Wheat Silage	4.4	1.4	22.7

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1959

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
The Abilene Flour Mills Co., Abilene, Kansas	4	3	1
Albany Mills, Albany, Kentucky	6	1	5
Albers Milling Co., Los Angeles, California	5	5	
Alfalfa Producers Coop., Inc., Bella Mina, Ala.	1	1	
Allied Food Distributors, Inc., Atlanta, Georgia	6	5	1
Allied Mills, Fort Wayne, Indiana	123	118	5
American Crystal Sugar Co., Moorhead, Minn.	2	2	
American Cyanamid Co., New York, New York	1		1
Amory Cotton Oil Co., Inc., Amory, Miss.	1	1	
Anderson County Farm Service, Lawrenceburg, Kentucky	4	3	1
Anderson & Spilman, Danville, Kentucky	5	5	
Andrews Mills, Russellville, Kentucky	9	8	1
Anglo Sweet Feed Mill, Owensboro, Kentucky	6	6	
Apex Feed & Supply, Inc., Marietta, Ohio	1	1	
Archer-Daniels-Midland Co., Minneapolis, Minn.	6	5	1
Archer Products Co., Inc., Ft. Worth, Texas	2		2
The Arkansas Rice Growers Assn., Stuttgart, Arkansas	1		1
Arkansas City Flour Mills, Arkansas City, Kan.	1	1	
Armour & Co., Chicago, Illinois	1		1
Aubrey Feed Mills, Inc., Louisville, Kentucky	218	202	16
The Auburn Mills, Inc., Auburn, Kentucky	14	12	2
Aylor & Meyer Co., Aurora, Indiana	5	4	1
B. G. & V. Rendering Co., Mayfield, Kentucky	1		1
Bagdad Roller Mills, Bagdad, Kentucky	49	40	9
Ballard & Ballard, Louisville, Kentucky	2	2	
Baltic Mills, Vincennes, Indiana	12	11	1
Banner Feed Mills, Huntington, West Virginia	5	3	2
Bardstown Mills, Bardstown, Kentucky	8	7	1
Barnett & Sullivan Co., Harrodsburg, Kentucky	1	1	
Barry-Carter Milling Co., Lebanon, Tennessee	7	7	
Barton Distilling Co., Bardstown, Kentucky	9	8	1
Bates Farm Supply, Dry Ridge, Kentucky	2		2
Bath County Milling Co., Owingsville, Kentucky	3	3	
Battle Creek Dog Food Co., Battle Creek, Mich.	2	1	1
Baughman Milling Co., Stanford, Kentucky	36	13	23
Bay State Milling Co., Leavenworth, Kansas	1	1	
James B. Beam Distilling Co., Clermont, Ky.	1	1	
B. A. Bernard & Co., Inc., Philadelphia, Pa.	4	2	2
Best Feeds & Farm Supplies, Inc., Washington, Pennsylvania	1	1	
Bethany Industries, Inc., Mason, Ohio	1	1	
Bi-County Farm Bureau Coop., Florence, Ky.	12	12	
Big Sandy Wholesale Co., Pikeville, Kentucky	1	1	
Birmingham Milling Co., Benton, Kentucky	2	2	
Bissett & Cummins, Harrodsburg, Kentucky	1	1	
Bobb Bros., Leesburg, Ohio	1	1	
The Boswell Co., Atlanta, Georgia	2	2	
Boyle Packing Co., Danville, Kentucky	6	1	5
Bradley & Baker, St. Louis, Missouri	1	1	
Bremco Alfalfa Mills, Inc., New Bremen, Ohio	5	1	4
Brock Grain Co., Maysville, Kentucky	3	3	
The Brode Corp., Memphis, Tennessee	3	3	
Browder Milling Co., Inc., Fulton, Kentucky	11	9	2

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1959

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Brunswick Navigation Co., Southport, N. C.	1		1
The Buckeye Cellulose Corp., Memphis, Tenn.	3	3	
The Buckeye Cellulose Corp., Cincinnati, Ohio	4	4	
Buhner & Co., Louisville, Kentucky	29	26	3
Bundy Bros. Mill Co., Medora, Indiana	14	9	5
Burgess Bros. Mill, Sadieville, Kentucky	2	2	
Bush Bros. & Co., Clinton, Tennessee	7	7	
A. C. Butts & Sons, Fulton, Kentucky	2	1	1
Cadiz Milling Co., Cadiz, Kentucky	19	9	10
Campbell's Feed Mill, Kevil, Kentucky	1	1	
Campbell Wholesale Co., Combs, Kentucky	2	1	1
Caneyville Roller Mills, Caneyville, Kentucky	8	6	2
Cann Bros., Leitchfield, Kentucky	4	3	1
Cardinal Food Products Co., St. Louis, Mo.	3	1	2
Cargill, Inc., Minneapolis, Minnesota	1	1	
Carnation Co., Los Angeles, California	2	2	
Carroll County Farm Bureau Cooperative, Carrollton, Kentucky	3	3	
Carrollton Processing Co., Carrollton, Mo.	1	1	
Cat Life Co., Chicago, Illinois	1	1	
Central Packing Co., Cape Girardeau, Mo.	1	1	
Central Soya Co., Inc., Ft. Wayne, Indiana	2	2	
Check-R-Board Store, Huntington, West Virginia	3	2	1
Chef Pet Foods, Inc., Delavan, Wisconsin	1	1	
Chestnut & Anderson Feed Mills, Hopkinsville, Kentucky	1	1	
Citizen Milling Co., Somerset, Kentucky	15	8	7
City Roller Mills, Vevay, Indiana	3	3	
Clarkson Milling Co., Clarkson, Kentucky	1		1
Clarkson Feed Store, Clarkson, Kentucky	3	2	1
Clay's Molasses Co., College Grove, Tenn.	1	1	
Clifty Falls Mills, Inc., Madison, Indiana	59	40	19
Clinton Corn Processing Co., Clinton, Iowa	1		1
Clinton Hatchery, Clinton, Kentucky	7	6	1
Clinton Milling Co., Clinton, Kentucky	42	32	10
Coast Fisheries, Div. Quaker Oats Co., Chicago, Illinois	3	3	
Cooke & Co., Atlanta, Georgia	2	2	
Colby Milling Co., Colby, Wisconsin	5	1	4
H. C. Cole Milling Co., Chester, Illinois	9	8	1
Clell Coleman & Sons, Burgin, Kentucky	44	32	12
Collier Bros. Feed Mill, Hickory, Kentucky	3		3
Cocke & Co., Atlanta, Georgia	1	1	
The Colorado Milling & Elevator Company, Denver, Colorado	6	6	
Commander-Larabee Milling Company, Minneapolis, Minnesota	2	2	
Commercial Solvents Corp., Peoria, Illinois	1	1	
Columbus Canning Co., Columbus, Missouri	3	3	
Community Mills, Belton, Kentucky	2		2
Community Milling Co., Irvington, Kentucky	22	15	7
Consolidated Foods Corp., Chicago, Illinois	1	1	
Consolidated Flour Mills Co., Wichita, Kansas	1	1	
Cooper Bros., Elizabethtown, Kentucky	2	2	
Cooperative Mills, Inc., Cincinnati, Ohio	304	273	31

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For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Corn Products Co., New York, New York	3	3	
Corn Products Co., Waverly, New York	1	1	
Crescent Roller Mills, Taylorsville, Kentucky	13	11	2
Crestwood Farmers Supply Center, Crestwood, Kentucky	1	1	
Custom Feed Mills, Morganfield, Kentucky	9	9	
Darling & Co., Cincinnati, Ohio	2	2	
Dearborn Mills, Aurora, Indiana	59	57	2
Decatur Cotton Oil Co., Decatur, Alabama	2	2	
Decatur Elevator Co., Decatur, Illinois	8	8	
Desota Oil Co., Memphis, Tennessee	1	1	
W. C. Dicken, Mentor, Kentucky	14	14	
Dixie Elevator Co., Nashville, Tennessee	1		1
Dixie Mills Co., East St. Louis, Illinois	11	9	2
Dixie-Portland Flour Co., Chattanooga, Tenn.	2	2	
Dixie Treat Sales Co., Jackson, Tennessee	5	4	1
Doggie Dinner, Division S. E. Mighton Co., Bedford, Ohio	5	3	2
Doyle Packing Co., Chicago, Illinois	3	3	
Duncan Farm Service, Lawrenceburg, Kentucky	8	8	
Dyersburg Oil Mill Co., Dyersburg, Tennessee	10	10	
The Early & Daniel Co., Cincinnati, Ohio	138	131	7
Early & Daniel Co., Winchester, Kentucky	4	1	3
Eckhart Milling Co., Chicago, Illinois	2	2	
Elam Grain Co., St. Louis, Missouri	1	1	
Emge Packing Co., Fort Branch, Indiana	1		1
The F. L. Emmert Co., Cincinnati, Ohio	3	3	
Empire Distributing Co., St. Louis, Missouri	1		1
Eshelman Grain, Inc., Columbus, Ohio	34	27	7
John W. Eshelman & Sons, Lancaster, Pa.	21	19	2
Evans Industries, Inc., Marion, Indiana	2		2
Evans Milling Co., Indianapolis, Indiana	3	2	1
Ewing Mill Co., Brownstown, Indiana	6	5	1
Ewing Mill Co., Ewing, Indiana	2	2	
Fabro, Inc., Athens, Georgia	6	2	4
Famous Feed Mills, Nashville, Tennessee	29	23	6
Farm Service, Inc., Glasgow, Kentucky	1	1	
Farmers Elevators, Inc., Owensboro, Kentucky	16	12	4
Farmers Elevator Co., Franklin, Kentucky	1	1	
Farmers Elevator Molasses Co., Franklin, Ky.	3	3	
Farmers Feed Mill, Jamestown, Kentucky	1	1	
Farmers Feed Mill, Lexington, Kentucky	2	2	
Farmers Feed Store, Central City, Kentucky	8	5	3
Farmers & Merchants Milling Co., Brooksville, Kentucky	7	5	2
Farmers Milling Co., Somerset, Kentucky	21	13	8
Farmers Supply, Beaver Dam, Kentucky	5	4	1
Farmers Supply, Glasgow, Kentucky	1	1	
Farmers Supply Co., Springfield, Kentucky	1	1	
Farmers Supply & Produce Co., Monticello, Ky.	2		2
Farmers Tankage Co., Henderson, Kentucky	5	5	
Farmers Union Mill, Versailles, Kentucky	3	2	1
Farmington Sweet Feed Mill, Farmington, Ky.	3	3	

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For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
J. H. Fedders, Inc., Covington, Kentucky	8	6	2
Ferncliff Feed & Grain Co., Louisville, Kentucky	35	32	3
Field Packing Co., Owensboro, Kentucky	4	1	3
Fischer Packing Company, Louisville, Kentucky	19	16	3
Flag Packing Corporation, Brooklyn, New York	1	1	
Flambeau Milling Co., Phillips, Wisconsin	11	3	8
Folsomdale Milling Co., Folsomdale, Kentucky	5	5	
Food Products of America, Chicago, Illinois	2	2	
Fort Negley Mills, Nashville, Tennessee	4	1	3
Fortune Feed Mills, Huntington, West Virginia	1	1	
Francis Wholesale Co., Prestonsburg, Kentucky	7	2	5
French Sardine Co., Terminal Island, California	3	3	
The R. T. French Co., Rochester, New York	1	1	
Henry Fruechtenicht Co., Louisville, Kentucky	132	111	21
Fruen Milling Co., Minneapolis, Minnesota	1	1	
Fuhrer-Ford Mill Co., Inc., Mt. Vernon, Ind.	15	11	4
Garden Street Mill & Elevator Co., Louisville, Ky.	7	7	
Garrard Mills, Lancaster, Kentucky	18	13	5
The J. I. Gates Milling Co., Columbus, Ohio	1	1	
General Distributors, South Fort Mitchell, Ky.	7	3	4
General Foods Corp., Battle Creek, Michigan	3	3	
General Foods Corp., Kankakee, Illinois	1	1	
General Packing Co., Waynesville, Ohio	5	5	
General Mills, Inc., Hopkinsville, Kentucky	2	2	
General Mills, Inc., Minneapolis, Minnesota	33	33	
Germantown Milling Co., Germantown, Kentucky	3	3	
Giant Wholesale Co., Johnson City, Tennessee	1	1	
Gilster Milling Co., Chester, Illinois	4	2	2
Glasgow Trading Center, Glasgow, Kentucky	2	2	
Glenmore Distilleries Co., Owensboro, Kentucky	2	2	
Edward F. Goeke & Sons, Evansville, Indiana	1	1	
Golden Oil Meal Sales, Co., Memphis, Tenn.	8	8	
Grayson Milling Co., Grayson, Kentucky	1	1	
The Great Atlantic & Pacific Tea Company, New York, New York	5	5	
Green County Milling Co., Greensburg, Ky.	5	4	1
Gwinn Bros. & Co., Huntington, West Virginia	27	21	6
Hales & Hunter Co., Chicago, Illinois	45	37	8
Hancock & Franklin Mills, Louisville, Kentucky	2	2	
Hardin County Milling Co., Elizabethtown, Ky.	5	5	
Hardy Bros. Mills, Walton, Kentucky	9	9	
Harlan Farmers Supply, Harlan, Kentucky	2	2	
Harpeth Mills, Nashville, Tennessee	1		1
Harrison Farm Supply, Berea, Kentucky	3	3	
The P. H. Harsha Milling Co., Portsmouth, Ohio	9	4	5
Harvest Brand, Inc., Pittsburg, Kansas	1	1	
G. M. Haycraft & Son, Leitchfield, Kentucky	7	7	
Haydon Mill & Grain Co., Springfield, Kentucky	27	20	7
Heaven Hill Distilleries, Inc., Bardstown, Ky.	15	11	4
Dr. Heinz Co., Washington Court House, Ohio	27	20	7
Helena Cotton Oil Co., Helena, Arkansas	3	1	2
Hermitage Feed Mills, Nashville, Tennessee	1		1
Burch Hester Feed Store, Hustonville, Kentucky	4	4	
Hi-Life Packing Co., Chicago, Illinois	2	2	

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For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Hickman County Feed Mill, Clinton, Kentucky	4	3	1
Hill Packing Co., Topeka, Kansas	6	5	1
Hodgenville Roller Mills, Hodgenville, Kentucky	4	2	2
Home Milling Co., Greenville, Kentucky	26	12	14
Hopkinsville Milling Co., Hopkinsville, Ky.	13	11	2
Hudson Farm Service, Franklin, Kentucky	2		2
Hulman & Co., Evansville, Kentucky	1	1	
Humphrey's-Godwin Co., Memphis, Tennessee	2	2	
Hunter Packing Co., East St. Louis, Illinois	1		1
Igleheart Bros., Evansville, Indiana	13	10	3
Illinois Cereal Mills, Inc., Paris, Illinois	6	6	
Illinois Soy Products Co., Springfield, Illinois	7	7	
J. F. Imbs Milling Co., St. Louis, Missouri	4	2	2
Independent Oil Mill, Inc., Jackson, Tennessee	5	4	1
International Milling Co., Minneapolis, Minn.	4	4	
Interstate Foods of America, Bedford, Ohio	2	1	1
Jasper Milling Co., Science Hill, Kentucky	1		1
Jones Packing Co., Paducah, Kentucky	6	1	5
Kasco Mills, Inc., Waverly, New York	1	1	
Keller Hay & Grain Co., Newport, Kentucky	13	11	2
Spencer Kellogg & Sons, Inc., Decatur, Illinois	3	3	
Kellogg Co., Battle Creek, Michigan	1	1	
Kentucky Animal By-Products Co., Russellville, Kentucky	2		2
Kentucky By-Products Corp., Louisville, Ky.	15	9	6
Kentucky Chemical Industries, Inc., Cincinnati, Ohio	9	6	3
Keynes Bros., Logan, Ohio	18	8	10
F. W. Kibler Milling Co., Mt. Orab, Ohio	3	3	
Kingan Division - Kentucky Grade Food Products Corp., Detroit, Michigan	4	3	1
Kingan Packing Co., Indianapolis, Indiana	1	1	
The Klarer Co., Louisville, Kentucky	21	17	4
Knifley Feed & Supply, Elkhorn, Kentucky	11	9	2
H. C. Knoke & Co., Chicago, Illinois	2	2	
Krey Packing Co., St. Louis, Missouri	11	10	1
Lake County Oil Mill, Tiptonville, Tennessee	9	9	
Lammers Rice Milling Co., McGehee, Arkansas	1	1	
Lauhoff Grain Co., Danville, Illinois	9	7	2
Harry L. Laws & Co., New Orleans, La.	2	2	
Lee Dog Food Co., LaGrange, Kentucky	2	1	1
Lewisburg Roller Mills, Lewisburg, Kentucky	6	4	2
Lexington Roller Mills, Lexington, Kentucky	61	51	10
Life Guard Feeds, Columbus, Ohio	2		2
Lipscomb Farm Supply, Walton, Kentucky	3	3	
Lofton's Feed & Grain, Clay, Kentucky	8	5	3
London Feed & Milling Co., London, Kentucky	2	2	
Louisa Supply Co., Louisa, Kentucky	6	6	
Lovelaceville Feed Mill, Lovelaceville, Ky.	1	1	
L. B. Lovitt & Co., Memphis, Tennessee	10	10	
Lowe's Feed & Hatchery, Bowling Green, Ky.	3	2	1
Lynn Grove Feed & Seed Co., Lynn Grove, Ky.	1	1	

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For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Magic Feed Mills, Paoli, Indiana	5	5	
Marianna Sales Co., Memphis, Tennessee	2	2	
Marhoefer Packing Co., Muncie, Indiana	1	1	
Markin Feed Co., Ironton, Ohio	1	1	
Marnat Packing Co., Bennettsville, N. Carolina	1		1
Mayfield Milling Co., Mayfield, Kentucky	64	54	10
Mayfield Sweet Feed Mill, Mayfield, Kentucky	12	11	1
Mayflower Mills, Fort Wayne, Indiana	3	1	2
The Mennel Milling Co., Fostoria, Ohio	1	1	
J. A. McDonald & Sons, Rogersville, Tennessee	2	2	
McGahan's Feed Co., Paintsville, Kentucky	6	4	2
McKnight-Keaton Grocer Co., Cairo, Illinois	1	1	
McMillen Feed Mills, Fort Wayne, Indiana	107	83	24
McRedmond Bros., Nashville, Tennessee	2	1	1
Meadow's Feed & Building Supply, Clay City, Ky.	4	2	2
Dr. Melody DVM Associates, Dublin, Pa.	1		1
Memphis Cotton Oil Co., Memphis, Tennessee	2	2	
The Mennel Milling Co., Toledo, Ohio	3	3	
Metzger Bros., Paducah, Kentucky	3	2	1
Middlesboro Milling Co., Middlesboro, Kentucky	8	7	1
Midget Mills, Somerset, Kentucky	4	2	2
Midland Grocery Co., Washington C. H., Ohio	1	1	
S. E. Mighton Co., Bedford, Ohio	2		2
Carlyle Miller, Bowling Green, Kentucky	1		1
Miller Milling Service, Bowling Green, Kentucky	5	4	1
Milliken Sweet Feed Mill, Franklin, Kentucky	13	6	7
Mineral Products Co., Indianapolis, Indiana	2	2	
Mississippi Oil Mills, Inc., Greenwood, Miss.	1	1	
Model Milling Co., Inc., Jackson, Tennessee	3	3	
Mohawk Roller Mills, Mohawk, Tennessee	1	1	
August Moldenhauer Mill, Menfro, Missouri	2	2	
Monroe Bros. Sweet Feed Mill, Cave City, Ky.	2	2	
Monroe Grain-Alfalfa Co., Monroe, Nebraska	1	1	
Moorman Manufacturing Co., Quincy, Illinois	4	4	
Morgan Packing Co., Inc., Austin, Indiana	2	2	
Morgantown Feed Mills, Morgantown, Kentucky	6	6	
Morristown Milling Co., Morristown, Tenn.	1	1	
Mt. Vernon Milling Co., Mt. Vernon, Indiana	6	6	
Munfordville Milling Co., Munfordville, Ky.	4	3	1
Murphy Grain & Milling Co., Owensboro, Ky.	3	3	
Myers & Clark Co., Inc., Ashland, Kentucky	25	20	5
Henry Nagel & Son, Cincinnati, Ohio	1	1	
Nashville Cotton Oil Mill Corp., Nashville, Tenn.	16	13	3
National Alfalfa Dehydrating & Milling Company, Lamar, Colorado	2	2	
National Biscuit Co., Toledo, Ohio	7	7	
National Molasses Co., Oreland, Pennsylvania	4	4	
National Oats Co., East St. Louis, Illinois	30	30	
Neuhoff Packing Co., Nashville, Tennessee	1	1	
Neumond, Inc., St. Louis, Missouri	2	2	
The New Era Milling Co., Arkansas City, Kansas	17	12	5
Northern Ohio Sugar Co., Findley, Ohio	1	1	
Northern Supply Co., Amery, Wisconsin	1		1
Chas. Nunn & Sons Milling Co., Evansville, Ind.	32	30	2
Nutrena Mills, Inc., Kansas City, Kansas	10	10	

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Ohio Valley Soybean Coop., Henderson, Ky.	24	21	3
Orleans Canning Co., Chicago, Illinois	3		3
Orleans Dog Candy Co., Chicago Illinois	2	1	1
Owensboro Grain Co., Inc., Owensboro, Ky.	18	18	
Owensboro Milling Co., Owensboro, Kentucky	35	35	
Packers By Products Co., National City, Ill.	1	1	
Pan American Mills, Inc., Bowling Green, Ky.	23	19	4
Patterson & Guthrie, Harrodsburg, Kentucky	3	3	
E. I. Payne & Co., Eubank, Kentucky	2	2	
Pedrick Laboratories, Sand Springs, Oklahoma	1		1
Pembroke Roller Mills, Pembroke, Kentucky	6	4	2
Stanley Penn & Sons, Lexington, Kentucky	2	2	
Pennington Milling Co., Pennington Gap, Va.	2	2	
Perk Foods Co., Chicago, Illinois	4	2	2
Pet Food Packers, Washington C.H., Ohio	5	4	1
Phoenix Oil Mill, Ridgley, Tennessee	9	7	2
Pierce & Williams, Hopkinsville, Kentucky	5	5	
The Pillsbury Co., Clinton, Iowa	121	107	14
The Pillsbury Co., Minneapolis, Minnesota	16	13	3
Pillsbury Mills, Inc., Memphis, Tennessee	3	3	
Pittsburg Plant Glass Co., Red Wing, Minn.	2	2	
Planters Manufacturing Co., Clarksdale, Miss.	1	1	
Portland Feed Mill, Portland, Tennessee	1	1	
Princeton Mills, Princeton, Kentucky	10	5	5
Purcell Seed Co., Inc., Evansville, Indiana	7	7	
The Quaker Oats Co., Chicago, Illinois	38	33	5
Quincy Soy Bean Products, Quincy, Illinois	1	1	
Ralston Purina Co., St. Louis, Missouri	221	214	7
Randolph Milling Co., Bandana, Kentucky	6	6	
Red Heart Division, John Morrel & Company, Chicago, Illinois	6	6	
Reelfoot Alfalfa Mill, Tiptonville, Tennessee	6	4	2
Regal Feed Mills, Nashville, Tennessee	1	1	
Lloyd Reiterman, Kingston, Ohio	1	1	
Richland Products Co., Blytheville, Arkansas	1	1	
Rival Packing Co., Chicago, Illinois	3	3	
Riverside Molasses Co., Cincinnati, Ohio	2	2	
Robbins Bros., Auburn, Kentucky	9	6	3
Roberts Bros., Burlington, Kentucky	2	2	
Robinson Milling Co., Somerset, Kentucky	25	19	6
Rodney Milling Co., Kansas City, Missouri	1	1	
Rome Oil Mill, Rome, Georgia	1	1	
G. B. Rose Co., Inc., Nashville, Tennessee	6	4	2
Ross Feed Co., Murray, Kentucky	9	8	1
Russells Co., Hilliards, Ohio	8	5	3
Russell-Miller Milling Co., Minneapolis, Minn.	4	3	1
Salyersville Wholesale, Inc., Salyersville, Ky.	2	2	
Sandusky Bros., Harrodsburg, Kentucky	14	9	5
Schenley Distillers, Inc., New York, New York	2	2	
Chas. H. Schenk & Sons, Vincennes, Indiana	5	4	1
J. F. Schneider & Sons, Inc., Middlesboro, Ky.	8	3	5
The Scott County Milling Co., Sikeston, Mo.	22	18	4

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1959

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Scottsville Feed Mills, Scottsville, Kentucky	1		1
Joseph E. Seagram & Sons, Inc., New York, N. Y.	3	3	
Siemer Milling Co., Teutopolis, Illinois	2	1	1
Sikeston Cotton Oil Mill, Inc., Sikeston, Mo.	3	3	
The W. J. Small Co., Kansas City, Missouri	2	2	
J. Allen Smith & Co., Knoxville, Tennessee	5	5	
Smithfield Milling Co., Smithfield, Kentucky	1	1	
Southern Canning Sales, Inc., Highlands, Texas	4	2	2
Southern Cotton Oil, Decatur, Alabama	4	3	1
Southern Cotton Oil, Huntsville, Alabama	2	2	
Southern Cotton Oil, Memphis, Tennessee	2	2	
Southern Rendering Co., Shelbyville, Tennessee	11	9	2
Southern State Cooperative, Richmond, Virginia	9	6	3
S. S. Campbellsville Coop., Campbellsville, Ky.	1	1	
S. S. Crittenden Coop., Marion, Kentucky	4	4	
S. S. Glasgow Coop., Glasgow, Kentucky	1	1	
S. S. Hopkinsville Coop., Hopkinsville, Kentucky	7	5	2
S. S. LaGrange Coop., LaGrange, Kentucky	1	1	
S. S. Leitchfield Coop., Leitchfield, Kentucky	3	3	
S. S. Louisville Coop., Louisville, Kentucky	3	3	
S. S. Owenton Coop., Owenton, Kentucky	1	1	
S. S. Shelbyville Coop., Shelbyville, Kentucky	2	2	
Spears-Kiser Co., Inc., Paris, Kentucky	1		1
Woodford Spears & Sons, Paris, Kentucky	9	4	5
Spencer-Well Feed Co., Winchester, Kentucky	10	7	3
Sportsman Dog Food Co., Chicago, Illinois	1	1	
A. E. Staley Manufacturing Co., Decatur, Ill.	22	20	2
Staley Milling Co., Kansas City, Missouri	23	22	1
Stevens & Lanier, Kevil, Kentucky	1	1	
St. Louis Independent Packing Company, St. Louis, Missouri	2	2	
Sturgis Milling Co., Sturgis, Kentucky	39	20	19
Summer Shade Roller Mills, Summer Shade, Ky.	1	1	
Sun-Ray Feed Mills, Bowling Green, Kentucky	16	12	4
Sun-Ray Feed Mills, Lexington, Kentucky	25	16	9
Sunshine Biscuits Inc., Milling Div., Grafton, Ohio	1	1	
Sunshine Biscuits Inc., Austin Dog Food Division, New York, New York	1	1	
Sunshine Molasses Co., Somerset, Kentucky	3	2	1
Supreme Mills, Glasgow, Kentucky	46	34	12
D. B. Sutherland & Sons, Bloomfield, Kentucky	45	34	11
Sweet Feeds, Hopkinsville, Kentucky	4	3	1
Sweet Feed Mills, Inc., Bowling Green, Ky.	2	1	1
Swift & Co., Chicago, Illinois	25	21	4
T & H Feed Service, Lebanon, Kentucky	3	3	
Tabby, Boston, Massachusetts	1		1
Tabor Hatchery & Building Supply, Columbia, Ky.	9	7	2
Taylor County Feed Co., Campbellsville, Ky.	1		1
Tennessee Packers, Inc., Clarksville, Tenn.	2	2	
Thomerson Milling Co., Glasgow, Kentucky	2	2	
The Thorobred Co., Waynesville, Ohio	5	2	3
Tilghman Packing Co., Tilghman, Maryland	1	1	
Todd County Grain Co., Elkton, Kentucky	3	1	2
Topeka Flour Mills, Corp., Salina, Kansas	2	2	
Trenton Cotton Oil Co., Trenton, Tennessee	37	27	10

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1959

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Trenton Milling Co., Trenton, Illinois	9	3	6
Tri-State Mills, Kenova, West Virginia	4	2	2
Tri-State Molasses Co., Owensboro, Kentucky	3	3	
Tri-State Molasses Co., Nashville, Tennessee	3	3	
Usen Canning Co., Boston, Massachusetts	6	2	4
Unique Feed Mill, Hebron, Kentucky	1	1	
Vet's Div. of Perk Food Co., Chicago, Illinois	4	4	
VyLactos Laboratories, Inc., Des Moines, Iowa	3	2	1
The J. R. Watkins Co., Winona, Minnesota	1	1	
Weisenberger Mills, Midway, Kentucky	9	9	
West Tennessee Soya Mills, Inc., Tiptonville, Tennessee	8	8	
Gardner White, Princeton, Kentucky	2	2	
T. E. White Co., Fort Wayne, Indiana	1	1	
Martha White Mills of West Virginia, Huntington, West Virginia	19	17	2
Martha White Mills, Inc., Lebanon, Tennessee	4	4	
The Whitewater Flour Mills Co., Whitewater, Kansas	5	3	2
Williamstown Roller Mills, Williamstown, Ky.	10	6	4
Wilson & Co., Inc., Chicago, Illinois	1	1	
Winchester Canning Co., Canal Winchester, Ohio	2		2
Wingo Feed & Supply Co., Wingo, Kentucky	2	2	
Winn Milling Co., Greensburg, Kentucky	5	3	2
Winn & Tobin Milling Co., Leitchfield, Kentucky	2	1	1
Winn & Tobin Milling Co., Marion, Kentucky	9	7	2
Woodford Feed Co., Versailles, Kentucky	4	4	
Woolcott Mills, Inc., Lexington, Kentucky	1	1	
Young Feed & Grain Co., Lewisport, Kentucky	2	2	
TOTALS	4,347	3,573	774
		82%	18%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
The Abilene Flour Mills Co., Abilene, Kansas Wheat Shorts & Screenings	Crude Protein 16.0%	15.3%
Albany Mills, Albany, Kentucky Clinton 20% Dairy Feed	Crude Fat 3.5%	2.8%
Clinton 18% Dairy Feed	Crude Fat 3.5%	2.5%
Mixed Feed	Crude Fiber 5.0%	5.8%
Mixed Feed	Crude Fiber 5.0%	6.0%
Mixed Feed	Crude Fiber 5.0%	6.4%
Allied Food Distributors, Inc., Atlanta, Georgia Streak Dog Food	Crude Protein 10.0%	9.0%
Allied Mills, Ft. Wayne, Indiana Wayne Hog Balancer	Crude Protein 35.0%	34.3%
Wayne Poultry Mixer Medicated	Arsanilic Acid 0.02%	0.0012%
Wayne Roughage Supplement	N.P.N. (Urea) 12.0%	13.7%
Wayne 42% Dairy Mixing Supplement	N.P.N. (Urea) 17.5%	18.9%
Wayne 42% Dairy Mixing Supplement "S"	N.P.N. (Urea) 14.0%	16.3%
American Cyanamid Co., New York, New York Aureomycin Crumbles for Swine, Cattle & Sheep	Crude Fiber 24.0%	25.2%
Anderson County Farm Service, Lawrenceburg, Ky. Anderson County 16% Dairy Feed	Crude Protein 16.0%	15.3%
Andrews Mills, Russellville, Kentucky 14 Super Mineral - Vitamin Supplement	Salt 25%	28.4%
Archer-Daniel-Midland Co., Minneapolis, Minn. 44% Solvent Extracted Soybean Oil Meal	Crude Protein 44.0%	43.1%
Archer Products Co., Inc., Ft. Worth, Texas Archer's Champ 99 Brand Horse Meat Dog & Cat Food	Crude Protein 12.5%	8.3%
	Crude Fat 4.0%	11.7%
Archer's Champ Brand for All Dogs & Cats Horse Meat Flavor	Crude Protein 10.0%	9.0%
	Moisture 74.0%	78.5%
The Arkansas Rice Growers Assn., Stuttgart, Ark. Rice Bran	Calcium 4.0%	2.3%
Armour & Co., Chicago, Illinois Dash Dog Food	Crude Protein 15.0%	14.4%
Aubrey Feed Mills Inc., Louisville, Kentucky Red A Commercial Layer	Crude Fiber 5.0%	5.6%
Red A Commercial Layer	Crude Fiber 5.0%	5.7%
Red A 18% Cage Layer Ration	Crude Protein 18.0%	17.3%
Red A Super High Energy Broiler Ration Medicated	Crude Protein 22.5%	21.9%
Red A Poultry Feed	Crude Protein 9.0%	8.0%
Red A 44% Dairy Supplement	Salt 2.5%	3.2%
Red A 32% Dairy Supplement	Crude Fat 3.0%	2.3%
Red A Dog Food	Crude Fat 6.0%	5.2%
Red A 50% Meat Scraps	Crude Protein 50%	49.0%
Red A 16% Sow & Pig Pellets Medicated	Crude Fiber 4.0%	4.6%
Red A 16% Sow & Pig Pellets Medicated	Crude Fiber 4.0%	5.1%
Red A 12% Hog Finisher Medicated	Crude Fiber 4.0%	4.6%
Red A 38% Sow & Pig Supplement Medicated	3-Nitro-4 0.0125%	0.048%
Red A 38% Sow & Pig Supplement Medicated	Crude Fat 1.5%	0.9%
Red A 16% Swine Wormer Feed Medicated	Crude Fiber 4.0%	4.7%
Red A 16% Swine Wormer Feed Medicated	Crude Fiber 4.0%	5.1%
The Auburn Mills, Inc., Auburn, Kentucky Leader Mixed Feed	Crude Protein 14.0%	13.2%
Leader Mixed Feed	Crude Protein 14.0%	13.0%
Aylor & Meyer Co., Aurora, Indiana Rainbow Dairy Feed		Unground weed seeds

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
B G & V Rendering Co., Mayfield, Kentucky Meat Scraps Poultry By-Products	Crude Protein 50.0%	47.9%
Bagdad Roller Mills, Bagdad, Kentucky		
Harrison's 24% Dairy Feed	Crude Protein 24.0%	22.7%
Harrison's 24% Dairy Feed	N.P.N. (Urea) 7.86%	9.3%
Harrison's 18% Dairy Feed	N.P.N. (Urea) 4.38%	6.6%
Harrison's 18% Dairy Feed	N.P.N. (Urea) 4.38%	6.7%
Bulky 16 1/2% Dairy Feed	N.P.N. (Urea) 5.37%	6.9%
Bulky 16 1/2% Dairy Feed	Crude Protein 16.5%	15.7%
Harrison's 20% Sow & Pig Feed	Crude Fiber 6.0%	7.8%
Harrison's Scratch Feed		Unground weed seeds
Harrison's Scratch Feed	Crude Protein 9.0%	8.4%
Baltic Mills, Vincennes, Indiana		
Knox County Hominy Feed	Crude Fat 7.0%	6.3%
Banner Feed Mills, Huntington, West Virginia		
Banner 24% Dairy	N.P.N. (Urea) 8.0%	10.2%
Banner 24% Dairy	N.P.N. (Urea) 8.0%	9.5%
Bardstown Mills, Bardstown, Kentucky		
Blue Ribbon 16% Dairy Feed	N.P.N. (Urea) 3.93%	5.4%
Barton Distilling Co., Bardstown, Kentucky		
Corn Distillers Dried Grains	Crude Protein 27.0%	25.5%
Bates Farm Supply, Dry Ridge, Kentucky		
Bates Special 16% Dairy Feed	N.P.N. (Urea) 1.0%	3.3%
Bates Special 16% Dairy Feed	N.P.N. (Urea) 1.0%	2.8%
Battle Creek Dog Food Co., Battle Creek, Michigan		
Miller's Dog Food	Crude Protein 24.0%	23.4%
Baughman Milling Co., Stanford, Kentucky		
Big B 24% Dairy Feed		Contained stem meal Unground weed seeds
Big B 24% Dairy Feed		1.9%
Big B 24% Dairy Feed	Crude Fat 2.5%	Contained ground straw
Big B 24% Dairy Feed	Crude Fat 2.5%	1.7%
Big B 24% Dairy Feed		Contained ground straw
Big B 24% Dairy Feed	Crude Protein 24.0%	20.6%
Big B 24% Dairy Feed	Crude Fat 3.0%	2.1%
Big B 24% Dairy Feed	Crude Fat 3.0%	2.0%
Big B 24% Dairy Feed	N.P.N. (Urea) 5.0%	6.4%
Big B 24% Dairy Feed	Crude Protein 24.0%	20.9%
Big B 24% Dairy Feed	N.P.N. (Urea) 5.0%	6.9%
Banner Special 16% Dairy Feed	Crude Protein 16.0%	15.4%
Banner Special 16% Dairy Feed	Crude Fat 2.5%	1.8%
Banner Special 16% Dairy Feed	Crude Protein 16.0%	15.1%
Banner Special 16% Dairy Feed		Contained ground straw
Banner Special 16% Dairy Feed		Contained stem meal
Banner Mixed Feed		Unground weed seeds
Banner Mixed Feed		Unground weed seeds
Banner Mixed Feed	Crude Protein 11.0%	10.0%
		Contained corn screenings

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Baughman Milling Company, Stanford, Ky. (Cont'd.)		
Banner Mixed Feed	Crude Protein 11.0%	10.0%
Banner Hen Feed		Unground weed seeds
Banner Hen Feed		Unground weed seeds
Banner Hen Feed		Unground weed seeds
Banner Hen Feed		Unground weed seeds
Banner Hen Feed		Unground weed seeds
Banner Hen Feed		Unground weed seeds
Hominy Feed	Crude Protein 10.0%	7.8%
	Crude Fat 5.0%	3.5%
Hominy Feed	Crude Protein 10.0%	7.9%
	Crude Fat 5.0%	2.6%
Hominy Feed		Contained weed seeds
B. A. Bernard & Co., Inc., Philadelphia, Pa.		
Trim Dog Food	Crude Protein 13.0%	12.1%
Trim Beef Liver Dog Food	Crude Fat 4.0%	2.2%
Boyle Packing Co., Danville, Kentucky		
Pride of Boyle Tankage with Bone	Crude Protein 45.0%	43.8%
Pride of Boyle Tankage with Bone	Crude Protein 45.0%	43.8%
Pride of Boyle Tankage with Bone	Crude Protein 45.0%	43.8%
Pride of Boyle Tankage with Bone	Crude Protein 45.0%	41.3%
Pride of Boyle Tankage with Bone	Crude Protein 45.0%	43.5%
Bremco Alfalfa Mills, Inc., New Bremen, Ohio		
Medogreen Alfalfa Meal	Crude Protein 17.0%	16.3%
Medogreen Alfalfa Meal	Crude Protein 17.0%	15.7%
Medogreen Alfalfa Meal	Crude Protein 17.0%	15.5%
Medogreen 13% Alfalfa Pellets	Crude Protein 13.0%	10.6%
Browder Milling Co., Fulton, Kentucky		
Browder's 18% Pig Starter Medicated	Crude Protein 18.0%	16.9%
Sweet Dairy Feed		Contained oat mill by-product
Brunswick Navigation Co., Southport, N. Carolina		
Feeders Special Pure Menhaden Fish Meal	Crude Protein 60.0%	58.7%
Buhner & Co., Louisville, Kentucky		
Happy Farmer Broiler Booster, Medicated	3-Nitro-4 0.0125%	0.0052%
Happy Farmer 40% Hog Supplement, Medicated	Crude Fiber 5.0%	5.8%
Happy Farmer 40% Hog Supplement H	Arsanilic Acid 0.05%	0.032%
Bundy Bros. Mills, Medora, Indiana		
Bundy's 20% Laying Mash	Crude Fiber 6.0%	6.9%
Bundy's 19% Pig & Sow Feed	Crude Fiber 6.0%	6.7%
Bundy's 19% Pig & Sow Feed	Crude Fiber 6.0%	6.6%
Hominy Feed	Crude Protein 10.0%	8.8%
Hominy Feed	Crude Protein 10.0%	9.1%
A. C. Butts & Sons, Fulton, Kentucky		
Butts Special 16% Dairy Feed	Crude Protein 16.0%	15.3%
Cadiz Milling Co., Cadiz, Kentucky		
Sunbeam Chicken Feed		Unground weed seeds
Sunbeam Chicken Feed	Crude Protein 9.0%	8.3%
Sunbeam Cattle Supplement A	Crude Fat 3.0%	1.4%
Sunbeam Cattle Supplement A	Crude Fiber 8.0%	9.0%
Sugar Sweet Dairy Feed	Crude Fat 3.0%	2.1%
Sugar Sweet Dairy Feed	N.P.N. (Urea) 5.2%	8.3%
Sunbeam Jr. 40% Hog Supplement	Crude Protein 40.0%	37.6%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Cadiz Milling Co., Cadiz, Kentucky (Cont'd.)		
Sunbeam 20% Pig & Sow Ration	Crude Fat 3.0%	2.2%
Sunbeam 14% Hog Fattener	Crude Fat 3.5%	2.9%
Sunbeam 14% Hog Fattener	Crude Protein 14.0%	13.2%
	Crude Fat 3.5%	2.8%
Campbell Wholesale Co., Combs, Kentucky		
Johns Stock Feed	Crude Fat 4.0%	3.1%
		Contained mixed screenings
Caneyville Roller Mills, Caneyville, Kentucky		
Kentucky Farm 20% Layer & Breeder Mash	Crude Protein 20.0%	19.2%
Kentucky Farm Scratch Feed		Unground weed seeds
Cann Bros., Leitchfield, Kentucky		
Cann's 20% Laying Mash	Crude Protein 20.0%	18.5%
Cardinal Foods Products Co., St. Louis, Missouri		
Pointer Dog Food	Crude Protein 10.0%	9.4%
Pointer Dog Food	Crude Fat 2.0%	1.3%
Check-R-Board Store, Huntington, West Virginia		
Check-R-Mix Growing Feed All Mash SJ	Crude Fiber 7.0%	8.3%
Citizen Milling Co., Somerset, Kentucky		
Cumberland 24% Dairy Feed	Crude Protein 24.0%	21.0%
Cumberland 24% Dairy Feed	Crude Protein 24.0%	22.3%
Cumberland 24% Dairy Feed	Crude Fiber 10.0%	11.3%
Cumberland 16% Dairy Feed	Crude Fiber 10.0%	11.4%
Scratch Grains		Unground weed seeds
Scratch Grains	Crude Protein 9.0%	8.2%
16% Cumberland Mixed Feed	Crude Protein 16.0%	15.3%
Clarkson Milling Co., Clarkson, Kentucky		
Fidelity 18% Starter & Grower	Crude Fiber 6.0%	6.7%
Clarkson Feed Store, Clarkson, Kentucky		
Van Meter 20% Laying Mash	Crude Protein 20.0%	18.2%
Clifty Falls Mills, Madison, Indiana		
Clifty Falls 32% Chick Supplement	Calcium 4.8%	3.71%
Clifty Falls 24% Pusher Feed		Contained mixed screenings
Clifty Falls 24% Pusher Feed	Crude Protein 24.0%	23.3%
Clifty Falls 24% Pusher Feed	Crude Protein 24.0%	23.3%
Clifty Falls 24% Pusher Feed	Crude Fat 2.5%	1.9%
Clifty Falls 16% Cow Feed	N.P.N. (Urea) 5.2%	7.1%
Clifty Falls 16% Cow Feed	N.P.N. (Urea) 5.2%	7.2%
Clifty Falls 16% Cow Feed	Crude Fat 2.5%	1.9%
Clifty Falls 15% Stock Feed	Crude Protein 15.0%	13.8%
Clifty Falls 10% Horse & Mule Feed	Crude Protein 10.0%	9.2%
Clifty Falls 10% Horse & Mule Feed	Crude Protein 10.0%	8.6%
Clifty Falls 10% Horse & Mule Feed	Crude Protein 10.0%	8.2%
Clifty Falls Scratch Feed	Crude Protein 9.0%	8.4%
Clifty Falls Cracked Corn	Crude Protein 9.0%	7.8%
Clifty Falls Cracked Corn	Crude Protein 9.0%	8.0%
Clifty Falls Cracked Corn	Crude Protein 9.0%	7.7%
Hominy Feed	Crude Protein 10.0%	8.8%
	Crude Fat 5.0%	3.5%
Hominy Feed	Crude Protein 10.0%	7.0%
	Crude Fat 5.0%	2.6%
Hominy Feed	Crude Protein 10.0%	7.2%
	Crude Fat 5.0%	2.8%
Clinton Corn Processing Co., Clinton, Iowa		
Dex-Mo-Lass	Crude Protein 12.0%	10.9%
	Sugar 45.0%	40.3%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Clinton Hatchery, Clinton, Kentucky New Deal 17% Cow Feed	Crude Protein 17.0% Crude Fat 3.5%	15.8% 2.7%
Clinton Milling Co., Clinton, Kentucky Climco 42% Protein & Mineral Dairy Mixing Concentrate Climco 20% Layer Medicated	Calcium 2.7% Crude Protein 20.0% Crude Fiber 4.5% 3-Nitro-4 0.01% Crude Fiber 4.0% Crude Fiber 4.0% 3-Nitro-4 0.0125%	1.9% 18.1% 5.3% 0.004% 4.6% 5.1% None
Climco Medicated 21% Booster Krums Climco Medicated 21% Booster Krums Masco 40% Hog Supplement Medicated Climco 40% Hog Supplement Climco 40% Hog Supplement Climco 30% Pig & Sow Supplement Climco 14% Shoat Grower Medicated Climco 12% Hog Finisher Medicated	Crude Fat 3.5% Crude Protein 40.0% Crude Fiber 7.0% 3-Nitro-4 0.0025% 3-Nitro-4 0.0025%	2.8% 39.0% 7.6% 0.0013% None
Colby Milling Co., Colby, Wisconsin Colby Pulverized White Oats Colby Pulverized White Oats Colby Coarse Ground White Oats Colby Coarse Ground White Oats	Crude Protein 11.5% Crude Protein 11.5% Crude Fiber 12.5% Crude Protein 11.5% Crude Fat 3.5% Crude Fiber 12.5% Crude Protein 11.5% Crude Fat 3.5% Crude Fiber 12.5%	10.4% 10.1% 13.8% 10.4% 2.7% 14.5% 9.9% 2.6% 13.8%
H. C. Cole Milling Co., Chester, Illinois Omega Wheat Shorts & Screenings	Crude Fiber 6.0%	6.9%
Clell Coleman & Sons, Burgin, Kentucky Coleman's Pig & Hog Feed Coleman's Pig & Hog Feed Coleman's Pig & Hog Feed Wheat Mixed Feed Wheat Mixed Feed Coleman's Farm Feed Coleman's Farm Feed Favorite Feed Favorite Feed Big Blue Stock Feed Coleman's Hominy Feed Coleman's Hominy Feed	Crude Fat 4.0% Crude Fat 4.0% Crude Protein 16.5% Crude Protein 14.0% Crude Fat 4.0% Crude Fat 4.0% Crude Protein 15.0% Crude Protein 15.0% Crude Protein 16.5% Crude Protein 10.0% Crude Fat 7.0% Crude Fiber 6.0% Crude Fiber 6.0%	3.2% 3.2% 15.9% 11.9% Contained hominy feed 3.1% 3.4% 14.3% 14.4% 13.9% 8.7% 5.6% 9.2% 7.3%
Collier Bros. Feed Mill, Hickory, Kentucky 16% Milking Feed 16% Milking Feed 16% Milking Feed	Crude Protein 16.0% Crude Protein 16.0% Crude Protein 16.0%	15.1% 14.4% 15.2%
Community Mills, Belton, Kentucky Brigance Egg Mash Brigance Pig Feed	Crude Protein 20.0% Crude Protein 18.0%	18.3% 17.0%
Community Milling Co., Irvington, Kentucky Our Pride 32% Dairy Supplement Our Pride 32% Dairy Supplement Our Pride 20% Dairy Feed Our Pride 20% Dairy Feed Our Pride 16% Dairy Feed Our Pride 16% Dairy Feed None Such 16% Dairy Feed	Crude Fat 3.0% Crude Fat 3.0% Crude Fiber 10.0% Crude Fat 2.5% Crude Fiber 10.0% Crude Fiber 10.0% Crude Fat 2.5%	2.0% 2.1% 10.8% 1.9% 11.6% 14.8% 1.6%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Cooperative Mills, Inc., Cincinnati, Ohio		
40% Poultry Supplement	Crude Protein 40.0%	38.8%
40% Poultry Supplement	Crude Fat 3.0%	2.4%
32% Breeder Supplement	Crude Fiber 6.0%	6.9%
32% Breeder Supplement	Crude Fiber 6.0%	6.7%
32% Breeder Supplement	Crude Fiber 6.0%	7.2%
32% Breeder Supplement	Crude Fiber 6.0%	7.6%
Super Laying Mash	Crude Fiber 4.5%	5.4%
Super Laying Mash	Crude Fiber 4.5%	5.2%
Super Laying Mash	Crude Fiber 4.5%	5.3%
Super Laying Mash	Crude Fiber 4.5%	5.3%
Super Breeding Mash	Calcium 3.0%	2.3%
Broiler Maker Finisher Medicated	3-Nitro-4 0.005%	0.002%
Pro-Blend "50"	Crude Protein 50.0%	47.5%
Pro-Blend "50"	Calcium 1.7%	1.2%
Pro-Blend "50"	Crude Protein 50.0%	48.9%
0.0022% Diethylstilbestrol in Pro-Blend "50"	Crude Protein 50.0%	49.0%
0.0011% Diethylstilbestrol in Beef Supplement	N.P.N. (Urea) 8.0%	9.4%
Beef Supplement	N.P.N. (Urea) 7.5%	8.8%
Beef Supplement	N.P.N. (Urea) 7.5%	9.6%
Beef Supplement	N.P.N. (Urea) 7.5%	9.8%
Beef Supplement	Crude Fiber 11.0%	11.7%
Beef Supplement	N.P.N. (Urea) 7.5%	9.0%
Super Coarse Scratch		Unground weed seeds
40% Hog Supplement	Crude Protein 40.0%	35.7%
38% Sow & Pig Supplement Medicated	Crude Protein 38.0%	35.2%
	Arsanilic Acid 0.025%	0.018%
38% Sow & Pig Supplement Medicated	Crude Protein 38.0%	37.2%
38% Sow & Pig Supplement Medicated	Crude Protein 38.0%	37.3%
Coop Molasses Mix	Crude Fiber 16.0%	17.1%
	Sugar 40.0%	37.8%
Red Ranger Dog Food	Crude Protein 24.0%	22.2%
Red Ranger Dog Food	Crude Protein 24.0%	23.2%
Wheat Red Dog	Crude Fiber 4.0%	4.7%
Crescent Roller Mills, Taylorsville, Kentucky		
Crescent Stock Feed	Crude Protein 14.0%	11.9%
Crescent Stock Feed	Crude Protein 14.0%	12.6%
Dearborn Mills, Aurora, Indiana		
Dearborn Special 32% Dairy & Cattle Supplement	Crude Protein 32.0%	27.8%
Dearborn 18% Rabbit Ration	Crude Fiber 10.0%	11.8%
Dixie Elevator Co., Nashville, Tennessee		
Rebel All Mash Starter & Grower	Crude Fiber 7.0%	9.8%
Dixie Mills Co., East St. Louis, Illinois		
Dixie Laying Pellets	Crude Fat 3.5%	2.8%
Dixie 18% Dairy Feed	N.P.N. (Urea) 3.5%	6.6%
Dixie Treat Sales Co., Jackson, Tennessee		
Dixie Treat 16% Dairy Feed	Crude Fat 2.5%	1.6%
Doggie Dinner, Div. S. E. Mighton Co., Bedford, O.		
Doggie Dinner	Crude Fat 2.0%	1.0%
Doggie Dinner	Crude Fat 2.0%	0.8%
The Early & Daniel Co., Cincinnati, Ohio		
Tuxedo Egg Mash	Crude Fat 5.0%	4.4%
Tuxedo Egg Mash	Crude Fat 5.0%	4.0%
Tuxedo Big Forty Hog Supplement	Crude Fat 2.5%	1.9%
Tuxedo Big Pig Starter Pellets Medicated	Crude Protein 18.0%	16.9%
Tuxedo Big Pig Starter Pellets Medicated	Crude Protein 18.0%	17.4%
Tuxedo Wheat Gray Middlings & Screenings	Crude Fiber 6.0%	8.0%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Early & Daniel Co., Winchester Horse Feed Horse Feed	Crude Fiber 5.0%	5.6% Unground weed seeds
Newco Feeds 16% Dairy Feed	Crude Protein 16.0%	15.0%
Emge Packing Co., Fort Branch, Indiana Emge's 60% Meat Scraps	Crude Protein 60.0%	57.4%
Empire Distributing Co., St. Louis, Missouri Empire Dog Food	Crude Fat 2.0%	0.5%
Eshelman Grain, Inc., Columbus, Ohio Life Guard Special 20% Dairy Feed	Crude Protein 20.0%	19.4%
K. J. 20% Laying Mash	Crude Protein 20.0%	16.8%
K. J. 20% Laying Mash	Crude Protein 20.0%	19.2%
K. J. 20% Laying Mash	Crude Protein 20.0%	18.8%
K. J. 20% Laying Mash	Crude Protein 20.0%	17.3%
Life Guard Hog Supplement	Crude Fat 2.5%	1.7%
Sunbeam Dog Food	Crude Fat 5.0%	4.1%
John W. Eshelman & Sons, Lancaster, Pa. Red Rosè Breeder Mash	Crude Fat 4.0%	3.2%
Red Rose Complete Game Bird Grower	Crude Fiber 5.5%	6.5%
Evans Industries, Inc., Marion, Indiana Better Bite Horse Meat Dog Food	Crude Fat 4.0%	7.5%
Better Bite Horse Meat Dog Food	Crude Protein 14.0%	12.9%
Evans Milling Co., Indianapolis, Indiana Emco Hominy Feed	Crude Protein 10.0%	9.1%
Ewing Mill Co., Brownstown, Indiana Triple-R-Dog Food	Crude Protein 25.0%	24.3%
Fabro, Inc., Athens, Georgia Twin Pet Dog Food	Crude Protein 10.0%	9.4%
	Crude Fat 2.0%	1.0%
Twin Pet Dog Food	Crude Protein 10.0%	8.7%
Henny Pen Dog Food	Crude Protein 11.0%	9.7%
	Crude Fat 2.0%	1.3%
Henny Pen Dog Food	Crude Protein 11.0%	6.4%
	Crude Fat 2.0%	1.0%
Famous Feed Mills, Nashville, Tennessee Famous Dog Food	Crude Protein 25.0%	24.2%
Golden Gain Pig & Hog Ration	Crude Fiber 6.0%	7.0%
Famous Formula Two Swine Mix - Medicated	Crude Fiber 4.0%	5.0%
	Arsanilic Acid 0.01%	0.0043%
Famous 44% Dairy Supplement	NPN (Urea) 20.9%	24.0%
Uncle Dan 18% Dairy Feed		Unground weed seeds
Golden Gain 16% Dairy Feed	Crude Fat 3.0%	2.3%
	Crude Fiber 15.0%	16.0%
Farmers Elevators, Inc., Owensboro, Kentucky Feeders Friend 18% Chick Starter & Grower Medicated	Crude Fiber 6.0%	6.5%
Feeders Friend 18% Chick Starter & Grower Medicated	Crude Fiber 5.0%	5.6%
Feeders Friend 16% Egg & Breeder Medicated	Arsanilic Acid 0.01%	0.0006%
Feeders Friend Sweet 16% Dairy	Crude Fiber 10.0%	12.0%
Farmers Feed Store, Central City, Kentucky Green River 16% Dairy Feed	Crude Protein 16.0%	14.8%
	Crude Fat 3.0%	1.8%
Veribest 14% Hog Ration	Crude Protein 14.0%	13.4%
Veribest 14% Hog Ration	Crude Protein 14.0%	13.4%
Farmers & Merchants Milling Co., Brooksville, Ky. Mixed Feed	Crude Protein 14.5%	13.6%
Wheat Mixed Feed & Screenings	Crude Protein 15.5%	14.6%
	Crude Fat 4.0%	3.4%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Farmers Milling Co., Somerset, Kentucky Spotlight 20% Starter-Grower All Mash Farmers Scratch Feed	Crude Protein 20.0%	18.1% Unground weed seeds
Spotlight Hog Feed	Crude Fiber 8.0%	8.8%
Spotlight Hog Feed	Crude Protein 16.0%	15.4%
Farmers 20% Mixed Feed	Crude Fat 3.0%	2.4%
Farmers 20% Mixed Feed	Crude Protein 20.0%	19.1%
Farmers 16% Mixed Feed	Crude Fiber 10.0%	11.2%
Farmers 16% Mixed Feed	Crude Fiber 10.0%	11.0%
Farmers Supply, Beaver Dam, Kentucky Farmers Check-R-Mix Laying Feed All Mash SA	Crude Protein 16.0%	15.2%
Farmers Supply & Produce Co., Monticello, Ky. Ground Barley	Crude Protein 12.0%	8.6%
Ground Barley	Crude Protein 12.0%	10.2%
Farmers Union Mill, Versailles, Kentucky Mixed Feed	Crude Protein 13.0%	11.9%
J. H. Fedders, Inc., Covington, Kentucky Fedco 16% Dairy Feed	Crude Fat 2.5%	1.7%
Fedco 16% Dairy Feed	NPN (Urea) 5.24%	6.6%
Ferncliff Feed & Grain Co., Louisville, Kentucky Ferncliff 24% Dairy Feed	NPN (Urea) 7.8%	9.6%
P.D.Q. 16% Dairy Feed	Crude Protein 16.0%	15.4%
Cracker Jack Hominy Feed	Crude Fat 5.0%	4.3%
Field Packing Co., Owensboro, Kentucky Field's 60% Digester Tankage	Crude Protein 60.0%	59.2%
Field's 60% Digester Tankage	Crude Protein 60.0%	57.1%
Field's 50% Meat Scraps	Crude Protein 50.0%	49.0%
Fischer Packing Co., Louisville, Kentucky Kentucky 60% Digester Tankage	Crude Protein 60.0%	57.5%
50% Meat Scraps	Crude Fiber 2.5%	3.1%
50% Meat Scraps	Crude Protein 50.0%	48.1%
Flambeau Milling Co., Phillips, Wisconsin Pulverized White Oats with Screenings	Crude Fiber 15.0%	16.2%
Pulverized White Oats with Screenings	Crude Protein 10.0%	8.9%
Flambo Fancy Pulverized White Oats	Crude Fiber 13.0%	13.6%
Pulverized Flambo Mixed Feed Oats	Crude Fiber 15.0%	16.0%
Pulverized Flambo Mixed Feed Oats	Crude Fat 4.5%	3.9%
Pulverized Flambo Mixed Feed Oats	Crude Fiber 15.0%	15.6%
Pulverized Flambo Mixed Feed Oats	Crude Fiber 15.0%	15.9%
Pulverized Feed Barley and Screenings	Crude Fat 4.5%	3.8%
Crude Protein 11.0%	Crude Protein 11.0%	10.2%
Fort Negley Mills, Nashville, Tennessee Luxury 40% Hog Supplement	Crude Fat 4.5%	3.8%
Luxury Laying Mash	Crude Protein 20.0%	18.5%
Luxury Rabbit Pellets	Crude Fiber 8.0%	10.3%
Francis Wholesale Co., Prestonsburg, Kentucky Francis Chicken Starter & Grower	Crude Fat 3.5%	2.4%
Francis 24% Dairy Feed	Crude Fat 2.5%	1.9%
Francis 16% Dairy	Crude Fat 3.0%	2.1%
Francis 16% Dairy	Crude Fat 3.0%	2.4%
Francis 16% Dairy	Crude Protein 16.0%	14.3%
Francis 16% Dairy	Crude Fat 3.0%	2.1%
Henry Fruechtenicht Co., Louisville, Kentucky Producer 36% Mash Concentrate Medicated	Arsanilic Acid 0.04%	0.006%
Producer 36% Mash Concentrate Medicated	Arsanilic Acid 0.04%	0.003%
Producer 20% Starter & Grower Mash Medicated	Furazolidone 0.0008%	None
	Nitrofurazone 0.0055%	None
Producer 24% Dairy Feed	Crude Fat 3.0%	2.4%
Producer Special 24% Dairy Feed	Crude Protein 24.0%	22.7%
Producer Special 24% Dairy Feed	Crude Protein 24.0%	23.0%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Henry Fruechtenicht Co., Louisville, Ky. (Cont'd.)		
Producer 20% Dairy Feed	Crude Protein 20.0%	18.4%
Producer 16% Dairy Feed	Crude Protein 16.0%	12.8%
Producer Special 16% Dairy Feed	Crude Protein 16.0%	15.4%
	Crude Fat 2.5%	1.7%
Producer Special 16% Dairy Feed	NPN (Urea) 5.2%	7.7%
Producer Special 16% Dairy Feed	Crude Protein 16.0%	13.8%
Producer Special 16% Dairy Feed	NPN (Urea) 5.2%	9.9%
Producer Special 16% Dairy Feed	NPN (Urea) 5.2%	6.4%
Producer Special 16% Dairy Feed	Crude Protein 16.0%	12.4%
Producer Sheep Feed	NPN (Urea) None	5.5%
Producer 18% Pig & Sow Feed Medicated	Arsanilic Acid 0.01%	0.008%
Producer 18% Pig & Sow Feed Medicated	Arsanilic Acid 0.01%	0.007%
Producer 18% Pig & Sow Feed Medicated	Arsanilic Acid 0.01%	0.002%
Producer 18% Pig & Sow Feed Medicated	Arsanilic Acid 0.01%	0.006%
Producer Pig Grower Medicated	Crude Fiber 4.0%	5.6%
	Arsanilic Acid 0.01%	0.005%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.006%
Fuhrer-Ford Mill Co., Inc., Mt. Vernon, Indiana		
Wheat Shorts & Screenings	Crude Fiber 6.0%	6.8%
Wheat Bran	Crude Fat 4.0%	3.3%
Wheat Bran	Crude Fat 4.0%	2.4%
Wheat Bran	Crude Fat 4.0%	3.1%
Garrard Mills, Lancaster, Kentucky		
Garrard 24% Dairy Feed	Crude Protein 24.0%	23.3%
Garrard 24% Dairy Feed	Crude Protein 24.0%	22.5%
Glen Lily Farm Feed	Crude Protein 12.5%	11.5%
Glen Lily Farm Feed	Crude Fat 3.5%	2.6%
Glen Lily Farm Feed	Crude Protein 12.5%	11.9%
General Distributors, South Fort Mitchell, Kentucky		
General Feeds Heavy Milker 16% Dairy Feed	Crude Protein 16.0%	14.9%
General Feeds Heavy Milker 16% Dairy Feed	Crude Protein 16.0%	12.3%
General Feeds Heavy Milker 16% Dairy Feed	Crude Protein 16.0%	13.5%
General Feeds Made-Rite Hog Fattener	Crude Fat 14.0%	12.8%
Gilster Milling Co., Chester, Kentucky		
Gilster's Wheat Bran	Crude Fat 3.7%	2.5%
Gilster's Wheat Bran	Crude Fat 3.7%	3.0%
Green County Milling Co., Greensburg, Kentucky		
Greenco 20% Laying Mash	Crude Protein 20.0%	16.0%
Gwinn Bros. & Co., Huntington, West Virginia		
Merit Starter & Grower Medicated	Crude Protein 20.0%	19.1%
Milk Producer 24% Dairy	Crude Protein 24.0%	22.1%
Gwinn's Dairy Crunch 24%	Crude Protein 24.0%	23.2%
Sweet Acre 24% Dairy Feed	NPN (Urea) 8.0%	11.8%
Sweet Acre 24% Dairy Feed	NPN (Urea) 8.0%	10.9%
Hominy Feed	Crude Fat 4.8%	4.1%
Hales & Hunter Co., Chicago, Illinois		
Red Comb Egg & Grower Concentrate	Calcium 6.0%	4.9%
Red Comb Growing Mash Z Medicated	Nicarbazin 0.2%	0.0016%
Pioneer Hog Concentrate	Crude Protein 40.0%	38.8%
	Salt 2.5%	3.8%
Big-R-Buy Hog Balancer	Phosphorus 2.0%	1.3%
Big-R-Buy Hog Balancer	Crude Protein 36.0%	33.0%
Big-R-Buy Hog Balancer	Calcium 3.5%	2.4%
	Phosphorus 2.0%	1.4%
Pioneer Sow Balancer	Crude Protein 35.0%	34.4%
	Calcium 4.0%	3.3%
Pioneer Pig Gro-Pel Medicated	Crude Protein 16.0%	15.1%
	Arsanilic Acid 0.01%	0.0062%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Harpeth Mills, Nashville, Tennessee Peerless 16% Dairy Feed	Crude Fat 3.0% Crude Fiber 15.0%	0.8% 16.6%
The P. H. Harsha Milling Co., Portsmouth, Ohio Harsha's Dixie-Sweet	Crude Fat 3.0% NPN (Urea) 5.2%	1.6% 7.3%
Harsha's Dixie Sweet 16% Dairy Feed	Crude Fat 3.0% NPN (Urea) 5.2%	1.8% 6.8%
Harsha's Dixie Sweet 16% Dairy Feed	Crude Fat 3.0% NPN (Urea) 5.2%	1.5% 6.8%
Harsha's Dixie Sweet 16% Dairy Feed	Crude Fat 3.0%	1.7%
Harsha's Dixie Sweet 16% Dairy Feed	Crude Fat 3.0%	1.8%
Haydon Mill & Grain Co., Springfield, Kentucky Magic 22% Laying Mash	Crude Protein 22.0%	20.7%
Magic 20% Sweet Dairy Feed	NPN (Urea) 6.5%	7.7%
Magic 16% Sweet Dairy Feed	NPN (Urea) 5.2%	7.6%
Magic 4-2-2 16% Sweet Dairy Feed	NPN (Urea) 5.2%	6.8%
Heaven Hill Distilleries, Inc., Bardstown, Kentucky Corn Distillers Dried Grains	Crude Protein 27.0%	26.0%
Corn Distillers Dried Grains	Crude Protein 27.0%	25.0%
Corn Distillers Dried Grains	Crude Protein 27.0%	24.8%
Corn Distillers Dried Grains	Crude Protein 26.0%	25.1%
Dr. Heinz Co., Inc., Washington Court House, Ohio Heinz Nu-Way Starter & Grower Medicated	Crude Fat 5.0%	4.0%
Heinz Nu-Way 34% Dairy Supplement	Crude Protein 34.0%	33.4%
Heinz Nu-Way 34% Dairy Supplement	Crude Protein 34.0%	32.8%
Heinz Nu-Way Cattle Supplement	Crude Protein 32.0%	27.1%
Heinz Nu-Way Diethylstilbestrol Mix in Hipro Cattle Supplement	Salt 1.5%	2.1%
Heinz Nu-Way Special Pig & Sow Supplement	Calcium 3.0%	2.4%
Heinz Nu-Way Special Pig & Sow Supplement	Crude Protein 36.0%	34.5%
Helena Cotton Oil Co., Helena, Arkansas Helena 41% Cottonseed Meal with Hydrolized Cottonseed Oil	Crude Protein 41.0%	38.9%
Helena 41% Cottonseed Meal	Crude Protein 41.0%	40.0%
Hermitage Feed Mills, Nashville, Tennessee Uncle Remus 16% Dairy Feed	Crude Fat 2.5%	1.1%
Hickman County Feed Mill, Clinton, Kentucky Standard 17% Pig & Sow Feed	Crude Protein 17.0%	13.9%
Hill Packing Co., Topeka Kansas Hills Puppy Food	Crude Protein 12.0%	10.2%
Hodgenville Roller Mill, Hodgenville, Kentucky Lincoln Mixed Feed	Crude Fat 4.0%	3.3%
Lincoln Mixed Feed	Crude Fat 4.0%	3.0%
Home Milling Co., Greenville, Kentucky Happy Home 24% Dairy Feed	Crude Fat 4.0%	2.7%
Farm-Wa 16% Dairy Feed	Crude Fat 4.0%	2.6%
Farm-Wa 16% Dairy Feed	Crude Fat 4.0%	3.2%
Farm-Wa 16% Dairy Feed	Crude Fat 4.0%	2.8%
Happy Home 16% Sweet Dairy Feed	Crude Protein 16.0%	15.4%
	Crude Fat 2.5%	1.4%
	Crude Fiber 15.0%	17.0%
Happy Home 16% Sweet Dairy Feed	Crude Fat 2.5%	Excess corn cobs 1.6%
Happy Home 16% Sweet Dairy Feed	Crude Fat 2.5%	Unground weed seeds 1.9%
	Crude Fiber 15.0%	16.4%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Home Milling Company, (Cont'd.)		
Happy Home 16% Sweet Dairy Feed	Crude Fat 2.5%	1.3%
Champion 17% Pig & Sow Meal	Crude Fiber 6.0%	9.0%
Champion 17% Pig & Sow Meal	Crude Protein 17.0%	15.4%
	Crude Fat 4.0%	3.4%
Champion 17% Pig & Sow Meal	Crude Fiber 6.0%	10.4%
Champion 17% Pig & Sow Meal	Crude Fiber 6.0%	9.1%
Champion Pig Developer Medicated	Crude Protein 16.0%	15.2%
Champion Hen Scratch		Unground weed seeds.
Hopkinsville Milling Co., Hopkinsville, Kentucky		
Sunflower Pig Starter	Crude Fiber 6.0%	6.9%
Sunflower Pig Starter	Crude Fiber 6.0%	6.7%
Hudson Farm Service, Franklin, Kentucky		
Hudson's Check-R-Mix Laying Feed (All Mash) SE	Crude Protein 16.0%	14.0%
Hudson's Check-R-Mix Laying Feed (All Mash) SE	Crude Protein 16.0%	13.7%
Hunter Packing Co., East St. Louis, Illinois		
Hunter Digester Tankage 60%	Crude Protein 60.0%	59.3%
Igleheart Bros., Evansville, Kentucky		
Wheat Bran	Crude Fat 3.5%	2.6%
Wheat Bran	Crude Fat 3.5%	2.9%
Mill Run Wheat Feed & Screenings	Crude Fat 4.0%	3.4%
J. F. Imbs Milling Co., St. Louis, Missouri		
Charm Wheat Gray Shorts & Screenings		Unground weed seeds
Charm Winter Wheat Bran	Crude Fat 3.7%	2.7%
Independent Oil Mill, Inc., Jackson, Tennessee		
Independent 41% Cottonseed Meal	Crude Protein 41.0%	39.5%
Interstate Foods of America, Bedford, Ohio		
A. B. C. Diet 1 Dog Food	Crude Fat 2.0%	0.9%
Jasper Milling Co., Science Hill, Kentucky		
Scratch Feed		Unground weed seeds
Jones Packing Co., Paducah, Kentucky		
Jone's 45% Tankage	Crude Protein 45.0%	44.1%
Jone's 45% Tankage	Crude Protein 45.0%	42.8%
Jone's 45% Tankage	Crude Protein 45.0%	44.0%
Jone's 45% Tankage	Crude Protein 45.0%	42.7%
Jone's 45% Tankage	Crude Protein 45.0%	42.1%
Keller Hay & Grain Company, Newport, Kentucky		
Big K Pig & Sow Ration	Crude Fiber 6.0%	7.6%
Big K Pig & Sow Ration	Crude Fiber 6.0%	7.2%
Kentucky Animal By-Products Co., Russellville, Ky.		
Blue Ribbon 50% Tankage & Bone Meal		Contained poultry feathers
Blue Ribbon 50% Meat & Bone Meal	Crude Fiber 3.0%	3.7%
		Contained poultry feathers
Kentucky By-Products Corp., Louisville, Kentucky		
Brewers Dried Grains	Crude Protein 24.0%	20.0%
	Crude Fiber 18.0%	20.9%
Brewers Dried Grains (Special Process Syrup Added)	Crude Protein 22.0%	17.7%
Brewers Dried Grains (Special Process Syrup Added)	Crude Protein 22.0%	20.9%
	Crude Fat 6.0%	4.9%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Kentucky By-Products Corp., (Cont'd.)		
Dri Molass	Sugar 40.0%	34.0%
Dri Molass	Sugar 40.0%	34.0%
	Crude Protein 10.0%	8.3%
Dri Molass	Crude Fiber 8.0%	8.9%
Kentucky Chemical Industries, Inc., Cincinnati, Ohio		
KC 60% Digester Tankage	Crude Protein 60.0%	56.1%
KC Special Meat Scraps 55.0%	Crude Protein 55.0%	52.8%
KC 50% Meat & Bone Scraps	Crude Protein 50.0%	48.8%
Keynes Bros., Logan, Ohio		
Check Mark 16% Dairy Feed		Unground weed seeds
Logan 16% Dairy Feed		Unground weed seeds
Logan 16% Dairy Feed	Crude Fat 2.5%	1.7%
Logan 16% Dairy Feed	Crude Fat 2.5%	1.7%
Logan 16% Dairy Feed	Crude Fat 2.5%	1.2%
Logan 24% Dairy Feed	Crude Fat 2.5%	1.8%
Logan 24% Dairy Feed	Crude Fat 2.5%	1.6%
Logan 24% Dairy Feed	Crude Fat 2.5%	1.1%
Logan 24% Dairy Feed	Crude Protein 24.0%	17.3%
Check Mark 40% Hog Supplement		Unground weed seeds
Kingan Division, HyGrade Food Products Corp., Detroit, Michigan		
60% Digester Tankage	Crude Protein 60.0%	58.0%
The Klarer Company, Louisville, Kentucky		
Klarer 60% Digester Tankage	Crude Protein 60.0%	56.3%
Klarer 60% Digester Tankage	Crude Protein 60.0%	59.1%
Klarer 60% Digester Tankage	Crude Protein 60.0%	55.8%
Klarer 60% Digester Tankage	Crude Protein 60.0%	58.8%
Knifley Feed & Supply, Elkhorn, Kentucky		
Elk 20% Layer Mash	Crude Fat 3.5%	2.8%
Elk Pig & Sow Feed	Crude Protein 16.0%	14.9%
Krey Packing Co., St. Louis, Missouri		
Krey's Digester Tankage 60%	Crude Protein 60.0%	58.1%
Lauhoff Grain Co., Danville, Illinois		
Vermillion Hominy Feed	Crude Fat 5.0%	4.4%
Vermillion Hominy Feed	Crude Fat 5.0%	4.2%
Lee Dog Food Co., LaGrange, Kentucky		
Cliffs Horse Meat 10% Soya Grits Added	Crude Fat 3.0%	10.5%
Lewisburg Roller Mills, Lewisburg, Kentucky		
Coon Range 40% Hog Supplement	Crude Fat 3.5%	2.1%
Coon Range 40% Hog Supplement	Crude Fat 3.5%	1.5%
Lexington Roller Mills, Lexington, Kentucky		
Thoroughbred 24% Sweet Dairy Feed	NPN (Urea) 5.2%	6.5%
Thoroughbred Scratch Feed	Crude Fat 3.5%	2.7%
Thoroughbred Scratch Feed	Crude Fat 3.5%	2.9%
Thoroughbred Special Horse & Mule Feed	Crude Protein 9.0%	8.2%
Thoroughbred Hog Supplement 40%	Crude Fat 3.0%	2.3%
Thoroughbred Hog Supplement 40%	Crude Fat 3.0%	2.4%
	Salt 2.0%	3.3%
Thoroughbred Hog Supplement 40%	Crude Fat 3.0%	1.4%
	Phosphorus 2.0%	1.3%
	Salt 2.0%	3.1%
Thoroughbred Hog Supplement 40%	Crude Fat 3.0%	1.6%
	Salt 2.0%	2.9%
Thoroughbred Hog Supplement 40%	Crude Fat 3.0%	1.8%
	Salt 2.0%	3.4%
Thoroughbred Hog Supplement 40%	Salt 2.0%	3.3%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Life Guard Feeds, Columbus, Ohio Life Guard Pig Starter Medicated Clover Bloom Dairy Feed	Arsanilic Acid 0.01%	0.0044% Contained Mixed Screenings
Lofton's Feed & Grain, Clay, Kentucky Lofton's Special Hog Feed Lofton's Special Hog Feed Lofton's Special Hog Feed	Crude Protein 16.0% Crude Protein 16.0% Crude Protein 16.0%	14.2% 14.7% 14.8%
Lowe's Feed & Hatchery, Bowling Green, Kentucky Milk Flo 16% Dairy Feed	Crude Protein 16%	15.2%
Marnat Packing Co., Bennettsville, N. Carolina Big Time Dog Food	Crude Protein 15.0%	14.4%
Mayfield Milling Co., Mayfield, Kentucky 0.0011% Diethylstilbestrol in Double M 33% Cattle Supplement Double M Broiler Finisher Big H 42% Dairy Concentrate Double M 16% Dairy Feed Double M Grade A 16% Dairy Feed Big H 40% Hog Supplement Double M 40% Hog Supplement Medicated Baby Piglet Pellets Medicated Jet-Age Pig Pre-Starter Medicated Jet-Age Pig Pre-Starter Medicated	NPN (Urea) 3.9% Crude Protein 21.0% Crude Protein 42.0% NPN (Urea) 4.9% Crude Protein 16.0% Salt 2.5% Crude Fat 3.0% Arsanilic Acid 0.01% Crude Protein 22.0% Crude Protein 22.0% 3-Nitro-4 0.00375%	11.1% 20.2% 40.9% 8.0% 14.9% 3.1% 1.7% 0.006% 18.6% 19.3% 0.009%
Mayfield Sweet Feed Mill, Mayfield, Kentucky State Leader 18% Laying Mash	Crude Protein 18.0%	17.4%
Mayflower Mills, Fort Wayne, Indiana Mayflower Wheat Middlings & Screenings Mayflower Wheat Brown Middlings & Screenings	Crude Protein 16.0% Crude Protein 15.0%	14.8% 14.4%
McGahan Feed Company, Paintsville, Kentucky Pig & Hog Feed	Crude Protein 18.0% Crude Fat 4.5%	16.5% 3.4%
McGahan's Check-R-Mix Laying Feed (All Mash) SA	Crude Protein 16.0%	14.8%
McMillen Feed Mills, Fort Wayne, Indiana Master Mix Hi-Calorie Poul Concentrate Medicated Master Mix Hi-Calorie Breeder Concentrate Master Mix Hi-Calorie Breeder Concentrate Master Mix Hi-Calorie Breeder Concentrate Master Mix Hi-Calorie Breeder Concentrate Master Mix Hi-Calorie Breeder Concentrate Master Mix Hi-Calorie Breeder Concentrate Master Mix 44% Dairy Supplement Master Mix 44% Dairy Supplement Master Mix Master Blend 33% Dairy Concentrate Master Mix Sweet 16% Dairy Master Mix Fitting Feed Master Mix 32% Cattle Mixer Master Mix 32% Cattle Mixer Master Mix Sweet Flakes Master Mix Sweet Flakes Master Mix Sweet Flakes Master Mix Sweet Flakes Master Mix Sweet Flakes Master Mix Sweet Flakes Master Mix Sweet Flakes Master Mix Sweet Flakes	Crude Protein 42.0% Crude Fat 6.0% Calcium 4.1% Calcium 4.1% Calcium 4.1% Calcium 4.1% Calcium 4.1% Calcium 4.1% Crude Protein 44.0% Crude Protein 44.0% Crude Protein 33.0% Crude Fat 2.5% Crude Fiber 9.0% Crude Fiber 13.0% Crude Fiber 13.0% Crude Fat 1.5% Crude Fiber 25.0% Crude Fiber 25.0% Crude Fiber 25.0% Crude Fiber 25.0% Crude Fiber 25.0% Crude Fiber 25.0% Crude Fiber 25.0% Crude Fiber 25.0%	41.0% 4.5% 3.3% 3.4% 3.1% 2.9% 3.0% 41.5% 42.5% 32.1% 1.8% 11.5% 15.0% 15.0% 0.9% 26.0% 26.1% 29.4% 26.7% 27.1% 26.0% 29.0%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
McMillen Feed Mills, (Cont'd.)		
Master Mix Sweet Flakes	Crude Protein 25.0%	29.3%
Master Mix Sweet Flakes	Crude Protein 25.0%	26.5%
McRedmond Bros., Nashville, Tennessee		
Meat & Bone Scraps		Contained feather meal
Meadow's Feed & Building Supply, Clay City, Ky.		
Meadow's Check-R-Mix Hog Grower (SA)	Crude Protein 16.0%	14.0%
Meadow's Check-R-Mix Hog Fattener	Crude Protein 14.0%	13.2%
Dr. Melody DVM Associates, Dublin, Pennsylvania		
Dr. Melody Beef Flavor Dog Food	Crude Fat 4.0%	2.0%
Metzger Bros., Paducah, Kentucky		
Tankage with Bone	Crude Protein 43.0%	41.6%
	Crude Fiber 2.0%	3.0%
Middlesboro Milling Co., Middlesboro, Kentucky		
Higrade Feed	Salt 1.5%	2.2%
Midget Mills, Somerset, Kentucky		
White Rose 24% Dairy Feed	Crude Fat 3.0%	2.0%
White Rose 24% Dairy Feed	Crude Fat 3.0%	1.7%
	Crude Protein 24.0%	20.6%
S. E. Mighton Co., Bedford, Ohio		
Smart Boy Dog Food	Crude Protein 15.0%	13.0%
	Crude Fat 3.5%	11.6%
	Crude Fat 2.0%	1.3%
Watch Dog Food Meat Flavor		
Carlyle Miller, Bowling Green, Kentucky		
Lespedeza Meal	Crude Fiber 28.0%	33.9%
Miller Milling Service, Bowling Green, Kentucky		
Alfalfa Meal	Crude Fiber 32.0%	33.5%
Milliken Sweet Feed Mills, Franklin, Kentucky		
Milliken's 36% Hog Concentrate	Crude Fat 13.5%	11.4%
Milliken's 36% Hog Concentrate	Crude Fat 13.5%	11.7%
Milliken's 36% Hog Concentrate	Crude Fat 13.5%	11.6%
Milliken's 36% Hog Concentrate	Crude Fat 13.5%	9.8%
Milliken's 36% HE Hog Supplement Medicated	Crude Fat 12.0%	10.9%
	Arsanilic Acid 0.2%	Trace
Milliken's 36% HE Hog Supplement Medicated	Crude Fat 12.0%	9.8%
Milliken's 36% HE Hog Supplement Medicated	Crude Protein 36.0%	35.3%
Munfordville Milling Co., Munfordville, Kentucky		
Purity Mixed Feed	Crude Fat 3.0%	2.3%
Myers & Clark Co., Inc., Ashland, Kentucky		
Ideal 24% Dairy Feed	NPN (Urea) 5.9%	8.3%
Ideal 16% Dairy Feed	Crude Protein 16.0%	15.2%
Mi Choice 16% Dairy Feed	NPN (Urea) 2.6%	6.1%
M & C Special 16 Dairy Feed	Crude Protein 16.0%	14.7%
	Crude Fat 2.5%	1.9%
Ideal Pork Maker	Crude Protein 14.0%	12.8%
Nashville Cotton Oil Mill Corp., Nashville, Tenn.		
41% Cottonseed Meal	Crude Protein 41.0%	39.2%
41% Cottonseed Meal	Crude Protein 41.0%	39.6%
41% Cottonseed Meal	Crude Protein 41.0%	39.6%
The New Era Milling Co., Arkansas City, Kansas		
Polar Bear Wheat Gray Shorts & Screenings	Crude Fiber 6.0%	6.7%
Polar Bear Wheat Gray Shorts & Screenings	Crude Fiber 6.0%	7.3%
Polar Bear Wheat Gray Shorts & Screenings	Crude Fiber 6.0%	6.9%
Polar Bear Wheat Gray Shorts & Screenings	Crude Fiber 6.0%	6.8%
Polar Bear Wheat Gray Shorts & Screenings	Crude Fiber 6.0%	6.8%
Northern Supply Co., Amery, Wisconsin		
Pulverized Mixed Feed Oats with Mixed Screenings	Crude Protein 11.0%	9.7%
	Crude Fiber 14.5%	15.2%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Chas. Nunn & Sons Milling Co., Evansville, Indiana Nunn Better Wheat Bran Nunn Better Wheat Bran	Crude Fat 3.0% Crude Fiber 10.0%	2.2% 10.7%
Ohio Valley Soybean Coop., Henderson, Kentucky Cardinal Economy 40% Hog Supplement Cardinal Kattle Kall 48 Cardinal Medicated Farm Fare 40% Hog Supplement	Calcium 3.0% Phosphorus 1.5% Crude Protein 48.0% Calcium 4.0% Phosphorus 1.8%	2.3% 0.9% 47.0% 2.7% 1.1%
Orleans Canning Co., Chicago, Illinois Orleans Dog Food Orleans Dog Food Orleans Dog Food Orleans Dog Candy Co., Chicago, Illinois Orleans Dog Food	Crude Fat 6.0% Crude Fat 6.0% Crude Fat 6.0% Crude Protein 15.0% Crude Fat 7.5%	11.3% 10.0% 12.8% 12.6% 15.0%
Pan American Mills, Bowling Green, Kentucky Green Valley 20% Dairy Feed Green Valley 20% Dairy Feed Green Valley 20% Dairy Feed Cracked Corn	Crude Protein 20.0% Crude Fat 4.0% NPN (Urea) 2.2% Crude Fat 4.0% NPN (Urea) 2.2% Crude Protein 9.0%	19.2% 3.2% 4.5% 3.3% 4.6% 8.1%
Pedrick Laboratories, Sand Spring, Oklahoma Vigo 100 Brand Dog Food	Crude Protein 18.0% Crude Fat 4.0% Moisture 68.0%	14.2% 9.5% 71.4%
Pembroke Roller Mills, Pembroke, Kentucky Mixed Feed Mixed Feed	Crude Fat 3.5% Crude Fat 3.5%	2.8% 2.6%
Perk Foods Co., Chicago, Illinois Perk Dog Food Perk Dog Food	Crude Fat 3.0% Crude Protein 14.0% Moisture 74.0%	8.0% 12.9% 77.3%
Pet Food Packers, Washington Court House, Ohio Rowdy Dog Food	Crude Fat 2.0%	1.1%
Phoenix Oil Mill, Ridgley, Tennessee Pure Gold 41% Cottonseed Meal Pure Gold 41% Cottonseed Meal	Crude Protein 41.0% Crude Fiber 7.0% Crude Protein 41.0% Crude Fat 7.0%	36.6% 13.7% 39.2% 12.0%
The Pillsbury Company, Clinton, Iowa Pillsbury's Best Starter & Grower (FL) Medicated Pillsbury's Best 4X Broiler Finisher Medicated Pillsbury's Best Pullet Developer Medicated Pillsbury's Best Layer Concentrate Pillsbury's Best Dairy Mixer 44% Pillsbury's Best Dairy Mixer 44% Pillsbury's Best Dairy Mixer 44% Pillsbury's Best 24% Dairy Feed Pillsbury's Best 24% Dairy Feed Pillsbury's Best 20% Dairy Feed Pillsbury's Best Pork Producer Pillsbury's Best Weaning Feast Medicated Pillsbury's Best Weaning Feast Medicated Pillsbury's Best Weaning Feast Medicated	Crude Fiber 6.5% Crude Protein 20.0% Crude Fat 5.5% 3-Nitro-4 0.005% Nitrofurazone 0.0056% Calcium 6.0% Crude Protein 44.0% Crude Protein 44.0% Crude Protein 44.0% Crude Protein 24.0% Crude Protein 24.0% Crude Fat 4.0% Crude Protein 14.0% Crude Fat 5.0% Crude Fat 5.0% Crude Fat 5.0%	7.1% 19.2% 4.0% 0.0038% 0.0038% 5.4% 43.3% 42.5% 43.4% 23.1% 23.0% 3.4% 13.2% 4.0% 3.1% 3.7%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
The Pillsbury Co., Minneapolis, Minnesota		
Ballards Wheat Bran	Crude Fat 3.5%	2.6%
Ballards Wheat Bran	Crude Fat 3.5%	2.6%
Ballards Wheat Bran	Crude Fat 3.5%	2.5%
Princeton Mills, Princeton, Kentucky		
Farm-Way 40% Hog Supplement	Salt 1.0%	2.5%
Farm-Way 40% Hog Supplement	Salt 1.0%	2.0%
Chowmix Sow & Pig Feed	Crude Protein 16.0%	14.5%
Chowmix Sow & Pig Feed	Crude Protein 16.0%	14.2%
Check-R-Mix Hog Feed E	Crude Protein 14.0%	12.8%
Quaker Oats Co., Chicago, Illinois		
Ful-O-Pep Layer Concentrate M	Salt 1.5%	2.4%
Ful-O-Pep Broiler Concentrate L Medicated	Nicarbazin 0.3125%	0.0292%
Ful-O-Pep Milking Feed M	Crude Protein 16.0%	14.8%
Ful-O-Pep Hog Supplement L	Crude Protein 36.0%	35.2%
Ful-O-Pep Hog Supplement M	Crude Protein 36.0%	34.1%
Ralston Purina Co., St. Louis, Missouri		
Purina Chicken Chowder	Calcium 5.5%	4.9%
	Salt 3.0%	4.2%
Purina Cow Chow Concentrate 50%	Crude Protein 50.0%	45.4%
Purina Cow Chow Concentrate 32%	Crude Protein 32.0%	30.6%
Purina Dairy Chow 16%	NPN (Urea) 4.0%	6.6%
Purina Bulky Las	Crude Fat 1.5%	0.9%
Purina 0.0011% Diethylstilbestrol Mix in Purina Steer Fatena 32%	Crude Protein 32.0%	31.2%
Purina 0.0011% Diethylstilbestrol Mix in Purina Steer Fatena 32%	NPN (Urea) 8.7%	13.6%
Reelfoot Alfalfa Mill, Tiptonville, Tennessee		
17% Alfalfa Meal Dehydrated	Crude Protein 17.0%	14.2%
15% Alfalfa Meal	Crude Protein 15.0%	13.2%
Robbins Bros., Auburn, Kentucky		
Hominy Feed	Crude Fat 7.0%	6.2%
Hominy Feed	Crude Protein 10.0%	9.4%
	Crude Fat 7.0%	6.0%
Hominy Feed	Crude Protein 10.0%	9.0%
	Crude Fat 7.0%	5.6%
Robinson Milling Co., Somerset, Kentucky		
Happy Home 16% Sweet Dairy Feed	Crude Fiber 15.0%	15.8%
Jersey Mixed Feed	Crude Protein 13.0%	11.8%
	Crude Fiber 9.0%	9.7%
Jersey Mixed Feed	Crude Protein 13.0%	12.2%
Jersey Mixed Feed	Crude Protein 13.0%	11.9%
		Unground weed seeds
Jersey Mixed Feed	Crude Protein 13.0%	12.2%
Jersey Mixed Feed	Crude Protein 13.0%	12.3%
G. P. Rose & Co., Inc., Nashville, Tennessee		
Rose's Dog Food	Crude Protein 24.0%	22.4%
Rose's Dog Food	Crude Protein 24.0%	22.1%
Ross Feed Co., Murray, Kentucky		
Standard 35% Sow & Pig Supplement	Crude Protein 35.0%	34.1%
Russells Co., Hilliards, Ohio		
Russell's 262 Brand 24% Dairy Feed	Crude Protein 24.0%	19.2%
	Crude Fat 2.5%	1.1%
Russell's 262 Brand 16% Dairy Feed	Crude Fat 2.5%	1.5%
Russell's Steel Cut Corn	Crude Protein 8.0%	7.3%
Russell-Miller Milling Co., Minneapolis, Minnesota		
Occident Wheat Bran	Crude Fat 4.0%	2.9%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Sandusky Bros., Harrodsburg, Kentucky		
Mixed Feed	Crude Fiber 8.0%	8.8%
Mixed Feed	Crude Protein 14.5%	13.4%
Mixed Feed	Crude Protein 14.5%	13.9%
Mixed Feed		Unground weed seeds
Cracked Corn & Wheat	Crude Protein 9.5%	8.8%
Chas. H. Schenk & Sons, Vincennes, Indiana		
Schenks Dehydrated Alfalfa Meal	Crude Fiber 27.0%	27.6%
J. F. Schneider & Sons, Inc., Middlesboro, Ky.		
Cudjo 48% Tankage	Crude Protein 48.0%	46.8%
		Excess bone
Cudjo 48% Tankage	Crude Protein 48.0%	46.4%
		Excess bone
Cudjo 48% Tankage		Excess bone
Cudjo 48% Tankage		Excess bone
The Scott County Milling Co., Silkeston, Missouri		
Gristo 42% Dairy Mixing Concentrate	Crude Fat 2.0%	1.4%
	NPN (Urea) 12.9%	14.6%
Gristo Wheat Gray Shorts & Screenings		Unground weed seeds
Gristo Poultry Scratch		Unground weed seeds
Gristo Poultry Scratch		Unground weed seeds
Scottsville Feed Mill, Scottsville, Kentucky		
20% Laying Mash	Crude Protein 20.0%	18.1%
Siemer Milling Co., Tentopolis, Illinois		
Steel Cut Corn	Crude Fat 3.5%	2.7%
Southern Canning Sales, Inc., Highland, Texas		
Top Kick Dog & Cat Food	Crude Protein 8.0%	7.0%
	Moisture 74.0%	77.1%
Top Kick Dog & Cat Food	Crude Fat 2.0%	1.4%
	Moisture 74.0%	75.3%
Southern Cotton Oil, Decatur, Alabama		
Sec-Co 41% Cottonseed Meal	Crude Protein 41.0%	40.1%
Southern Rendering Co., Shelbyville, Tennessee		
Southern 60% Mixture Meat & Bone Meal, Hydrolyzed Poultry Feathers	Crude Protein 60.0%	57.1%
Southern 60% Mixture Meat & Bone Meal, Hydrolyzed Poultry Feathers	Crude Protein 60.0%	59.3%
Southern States Cooperative, Richmond, Virginia		
Red Ranger Dog Food	Crude Protein 11.5%	10.5%
	Crude Fat 4.0%	7.5%
Red Ranger Dog Food	Crude Fat 4.0%	2.9%
	Moisture 74.0%	75.5%
Southern States Hopkinsville Coop., Hopkinsville, Ky.		
Ground Barley	Crude Protein 12.0%	10.5%
Ground Barley	Crude Protein 12.0%	10.1%
Spears-Kiser Co., Inc., Paris, Kentucky		
15% Protein Sheep Feed	Crude Fat 3.5%	2.6%
Woodford Spears & Sons, Paris, Kentucky		
Bourbon 16% Dairy Feed	Crude Fat 2.5%	1.9%
Bourbon Special Stock Feed	Crude Protein 13.0%	11.6%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Spen-Well Feed Co., Winchester, Kentucky Newco's Best 16% Dairy Feed	Crude Fat 3.5% Crude Fiber 5.5%	2.6% 6.5%
Newco Lamb Feed		Unground weed seeds
Newco Lamb Feed		Unground weed seeds
A. E. Staley Manufacturing Co., Decatur, Illinois Staley's Wonderfat Station Feed	Crude Fiber 7.0%	9.0%
Staley's 44% Soybean Oil Meal	Crude Fiber 7.0%	8.0%
Staley Milling Co., Kansas City, Missouri Professional Pig Mama Medicated	Crude Fiber 6.0%	6.9%
Sturgis Milling Co., Sturgis, Kentucky Neva-Fail 18% All Mash Laying Ration	Crude Protein 18.0%	17.1%
Susie Q 16% Sweet Dairy Feed		Unground weed seeds
Susie Q 16% Sweet Dairy Feed	Crude Protein 16.0%	15.1%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	38.6%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	38.5%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	38.3%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	38.9%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	39.2%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	39.4%
Hoppy's 40% Hog Supplement	Crude Protein 40.0%	37.9%
Hoppy's 18% Pig Starter Medicated	Arsanilic Acid 0.1%	None
Hoppy's 18% Pig Starter Medicated	Arsanilic Acid 0.1%	None
Hoppy's 18% Pig Starter Medicated	Arsanilic Acid 0.1%	0.00015%
Hoppy's 18% Pig Starter Medicated	Arsanilic Acid 0.1%	0.00014%
Hoppy's 18% Pig Starter Medicated	Arsanilic Acid 0.1%	0.00018%
Hoppy's 20% Pig & Sow Meal	Crude Fiber 6.0%	8.1%
Hoppy's 20% Pig & Sow Meal	Crude Fiber 6.0%	6.7%
Hoppy's 20% Pig & Sow Meal	Crude Fiber 6.0%	6.8%
Crushed Ear Corn	Crude Protein 8.0%	7.0%
Sun Ray Feed Mills, Bowling Green, Kentucky Sun-Ray Egg Mash	Crude Fiber 6.0%	6.7%
Sun-Ray 20% Laying & Breeder Mash	Crude Fiber 6.0%	6.7%
Sun-Ray 24% Sweet Dairy Feed	Crude Protein 24.0%	23.2%
Booster 18% Pig & Hog Feed		Unground weed seeds
Sun Ray Feed Mills, Lexington, Kentucky Hominy Feed	Crude Protein 10.0%	9.1%
		Contained cob and weed seeds
Hominy Feed	Crude Protein 10.0%	8.4%
Green Valley 24% Dairy Feed	Crude Protein 24.0%	22.7%
Green Valley 24% Dairy Feed	Crude Fat 2.5%	1.9%
	Crude Protein 24.0%	22.8%
Sugar Creek 24% Dairy Feed	Crude Fat 2.5%	1.9%
Kow Kandy 16% Dairy Feed	Crude Fat 3.0%	2.2%
	NPN (Urea) 4.7%	8.5%
Sun-Ray 14% Steer Feed	Crude Fat 2.5%	1.6%
Sun-Ray Horse & Mule Feed		Unground weed seeds
Sun-Ray Pig & Hog Ration	Crude Fat 3.5%	2.9%
Sunshine Molasses Co., Somerset, Kentucky High Protein Blackstrap Molasses	Sugar 48.0%	46.9%
Supreme Mills, Glasgow, Kentucky Premo 24% Dairy Feed		Unground weed seeds
Premo 24% Dairy Feed	Crude Protein 24.0%	22.0%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Supreme Mills, (Cont'd.)		
Premo 24% Dairy Feed	Crude Protein 24.0%	21.9%
Supreme Special 20% Dairy Feed	Crude Protein 20.0%	19.4%
Supreme Special 16% Dairy Feed	Crude Fiber 10.0%	13.9%
Feeders Pride 16% Dairy Feed	Crude Protein 16.0%	15.3%
Drummer Boy 40% Hog Supplement		Contained feathers & screenings
Supreme 17 1/2% Pig & Hog Feed Medicated	Crude Protein 17.5%	16.2%
Supreme 17 1/2% Pig & Hog Feed Medicated	Crude Protein 17.5%	16.0%
Premo Hominy Meal	Crude Protein 9.0%	8.1%
Premo Hominy Meal	Crude Fat 5.0%	3.9%
Premo Hominy Meal	Crude Protein 9.0%	8.3%
D. B. Sutherland & Sons, Bloomfield, Kentucky		
Kentucky Star Special 24% Dairy Feed	Crude Protein 24.0%	21.8%
Kentucky Star Farm Feed	Crude Fat 3.5%	2.8%
Kentucky Star Farm Feed	Crude Fat 3.5%	2.4%
Kentucky Star Farm Feed		Mixed Screenings
Kentucky Star Farm Feed		Unground weed seeds
Kentucky Star Farm Feed		Mixed Screenings
N. R. G. 28% Dog Food	Crude Protein 28.0%	24.0%
N. R. G. 28% Dog Food	Crude Protein 28.0%	26.1%
N. R. G. 28% Dog Food	Crude Protein 28.0%	24.7%
N. R. G. 28% Dog Food	Crude Protein 28.0%	26.4%
N. R. G. 28% Dog Food	Crude Protein 28.0%	27.0%
N. R. G. 28% Dog Food	Crude Fat 5.0%	4.3%
N. R. G. 28% Dog Food	Crude Protein 28.0%	25.6%
N. R. G. 28% Dog Food	Crude Fat 5.0%	4.3%
Sweet Feeds, Hopkinsville, Kentucky		
Pratts All Purpose Poultry Mash 20%	Crude Protein 20.0%	19.2%
Sweet Feed Mills, Inc., Bowling Green, Kentucky		
Good Fresh Hog Maker	Crude Fat 4.0%	3.2%
Swift & Co., Chicago, Illinois		
Pard Beef Flavor Dog Food	Crude Fat 2.5%	7.2%
Pard Special Beef Gravy Added Dog Food	Crude Fat 3.5%	7.7%
Digester Tankage 60%	Crude Protein 60.0%	55.0%
Swift's Meat & Bone Scraps	Crude Protein 50.0%	46.7%
Tabby, Boston, Massachusetts		
Tabby All Fish Cat Food	Moisture 74.0%	76.1%
Tabor Hatchery & Building Supply, Columbia, Ky.		
Tabor 40% Hog Supplement	Calcium 3.8%	2.4%
Tabor 40% Hog Supplement	Phosphorus 1.4%	0.9%
Tabor 40% Hog Supplement	Calcium 3.8%	2.3%
Tabor 40% Hog Supplement	Phosphorus 1.4%	0.9%
Taylor County Feed Co., Campbellsville, Kentucky		
Economy Pig & Sow Feed		Unground weed seeds
The Thorobred Co., Waynesville, Ohio		
Thorobred All Beef Dog Food	Crude Fat 6.0%	9.9%
Thorobred All Beef Dog Food	Crude Fat 6.0%	18.4%
Thorobred All Beef Dog Food	Crude Fat 6.0%	10.5%
Thorobred All Beef Dog Food	Moisture 74.0%	76.9%
Todd County Grain Co., Elkton, Kentucky		
Ground Milo	Crude Protein 11.0%	7.5%
Ground Milo	Crude Protein 11.0%	8.6%
Trenton Cotton Oil Co., Trenton, Tennessee		
Trenton 45% Soybean Oil Meal	Crude Protein 45.0%	42.1%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Trenton Cotton Oil Co., (Cont'd.)		
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	38.2%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	39.9%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	38.9%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	40.4%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	39.9%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	39.0%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	37.8%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	38.5%
Trenton 41% Cottonseed Meal	Crude Protein 41.0%	40.4%
Trenton Milling Co., Trenton, Illinois		
Easter Lily Wheat Gray Shorts & Screenings	Crude Fiber 6.0%	7.1%
Easter Lily Wheat Gray Shorts & Screenings	Crude Fat 6.0%	7.0%
Easter Lily Wheat Gray Shorts & Screenings	Crude Fat 6.0%	6.7%
Easter Lily Wheat Gray Shorts & Screenings	Crude Fat 6.0%	7.2%
Easter Lily Wheat Gray Shorts & Screenings	Crude Fat 6.0%	6.7%
Easter Lily Wheat Bran	Crude Fat 3.5%	2.7%
Tri-State, Kenova, West Virginia		
24% Daisy Dairy Feed	NPN (Urea) 8.0%	10.4%
24% Daisy Dairy Feed	NPN (Urea) 8.0%	10.9%
Usen Canning Co., Boston, Massachusetts		
Tabby All Fish Cat Food	Moisture 74.0%	75.6%
Tabby All Fish Cat Food	Moisture 74.0%	76.1%
Tabby All Fish Cat Food	Moisture 74.0%	77.5%
Tabby All Fish Cat Food	Crude Fiber 0.3%	1.5%
VyLactos Laboratories, Inc., Des Moines, Iowa		
Scotch O Lass	Sugar 42.0%	38.3%
Martha White Mills of West Virginia, Huntington, West Virginia		
Fortune Starter & Grower Mash	Crude Protein 20.0%	19.0%
Fortune 20% Pig & Sow Ration	Crude Fiber 6.0%	6.8%
The Whitewater Flour Mills Co., Whitewater, Kan.		
Wheat Gray Shorts & Screenings	Crude Protein 16.0%	15.4%
Wheat Gray Shorts & Screenings	Crude Protein 16.0%	15.3%
Williamstown Roller Mills, Williamstown, Kentucky		
Our Own 20% Egg Mash	Crude Fat 3.5%	2.7%
Standard Mix Dairy 16%	Crude Protein 16.0%	15.4%
Our Own 16% Pig & Sow Meal	Crude Protein 16.0%	14.0%
	Crude Fat 4.0%	2.9%
	Crude Fat 4.0%	3.3%
Our Own 16% Pig & Sow Meal		
Winchester Canning Co., Canal Winchester, Ohio		
Mid West Improved Dog Ration	Crude Protein 10.0%	9.2%
	Moisture 74.0%	75.9%
	Crude Protein 10.0%	9.3%
Mid West Improved Dog Ration	Crude Fat 2.5%	1.4%
Winn Milling Co., Greensburg, Kentucky		
Daisy 16% Dairy Feed	NPN (Urea) 3.9%	6.0%
Daisy 16% Dairy Feed	NPN (Urea) 3.9%	5.6%
	Crude Fat 2.5%	1.8%
Winn & Tobin Milling Co., Marion, Kentucky		
Hominy Meal	Crude Protein 10.0%	8.1%
Hominy Meal	Crude Protein 10.0%	9.1%
Winn & Tobin Milling Co., Leitchfield, Kentucky		
Dairy 20% Breeder Mash	Crude Protein 20.0%	18.4%

