

Commercial Feeds in
Kentucky
1964



UNIVERSITY OF KENTUCKY
CENTENNIAL
1865 - 1965

Regulatory Bulletin 186

University of Kentucky
Agricultural Experiment Station
Lexington



The device of the University's Centennial Year was adapted from the Brioschi sculpture on the campus. The device suggests the initials of the University.

The upward sweep and downward curve of its elements indicate the University's Centennial theme—the aspiration for achievement in the future coupled with honor for the traditions of the past

FEED AND FERTILIZER DEPARTMENT
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Bruce Poundstone, Chairman

Robert Mathews, Asst. Adm. & Chief Inspector

* Guy P. Zickefoose, Auditor-Inspector

J.M. Fernandez, Auditor-Inspector

W.J. Huffman, Registration Inspector

FIELD INSPECTION

E.G. Vanderpool
M.M. Davis

Neville Hulette

Noel J. Howard
W.M. Routt

LABORATORY

Valva Midkiff
J.T. Adair
Paul R. Caudill

J.A. Shrader
Dewey H. Newman, Jr.
John Ellis

Lelah Gault
Norma Holbrook
Robert N. Price

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* Died April 10, 1964

This report compiled and prepared by Robert Mathews and Bruce Poundstone.
Analytical data by the laboratory staff.

INTRODUCTION

This Bulletin contains the results of inspection and analysis of commercial feeds sold in Kentucky during the calendar year of 1964 and other information helpful to those interested in this field.

During 1964, 3,372 official samples of feed were secured by Inspectors. 2,832 or 84.0% of these passed inspection and analysis satisfactorily.

During 1963, 3,368 official samples were secured and 2,885 or 85.6% of these were passed.

The total estimated tonnage for 1962 was 569,800 tons of commercial feed distributed in Kentucky. In 1963, the tonnage was 576,986 tons. In 1964, a total of 535,604 tons of feed was sold, down 40,000 tons from the previous year.

During 1964, inspectors called on most feed mills in Kentucky and discussed manufacturing practices pertaining to medicated feeds. This is continuing in 1965, to assist plant managers in bringing facilities up to FDA standards.

ESTIMATED TONNAGE OF SALES BY CLASS OF FEED,
KENTUCKY, 1963

<u>Mixed Feed</u>	<u>Tons</u>
Calf Feed	5,253
Cattle Feed	29,101
Dairy Feed	94,200
Dog & Cat Feed	26,206
Horse & Mule Feed	12,969
Mineral Feed	8,013
Pig & Hog Feed	96,803
Poultry Mashs	152,495
Rabbit Feed	1,781
Scratch Feed	8,290
Sheep Feed	863
Stock Feed	965
Turkey Mashs	5,860
Miscellaneous Mixed Feed	<u>11,456</u>
TOTAL MIXED FEED	<u>454,255</u>
<u>Straight Materials</u>	<u>Tons</u>
Alfalfa Products	1,814
Animal Products	8,975
Barley Products	126
Brewers Products	2,336
Corn Products	26,423
Cottonseed Products	10,440
Distillers Products	3,891
Linseed & Flax Products	792
Molasses	16,900
Oat Products	1,280
Soybean Products	14,258
Wheat Products	30,076
Miscellaneous Products	<u>5,420</u>
TOTAL STRAIGHT MATERIAL	<u>122,731</u>
GRAND TOTAL	576,986

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ESTIMATED TONNAGE OF SALES BY CLASS OF FEED,
KENTUCKY, 1964

<u>Mixed Feed</u>	<u>Tons</u>
Calf Feed	4,695
Cattle Feed	26,458
Dairy Feed	96,703
Dog & Cat Feed	18,425
Horse & Mule Feed	13,442
Mineral Feed	9,019
Pig & Hog Feed	88,256
Poultry Mash	133,863
Rabbit Feed	1,675
Scratch Feed	7,014
Sheep Feed	644
Stock Feed	4,790
Turkey Mash	5,088
Miscellaneous Mixed Feed	<u>10,034</u>
TOTAL MIXED FEED	<u>420,106</u>
<u>Straight Materials</u>	<u>Tons</u>
Alfalfa Products	3,188
Animal Products	7,635
Barley Products	21
Brewers Products	757
Corn Products	24,310
Cottonseed Products	10,308
Distillers Products	4,117
Linseed & Flax Products	199
Molasses	15,562
Oat Products	1,043
Soybean Products	14,929
Wheat Products	31,704
Miscellaneous Products	<u>1,725</u>
TOTAL STRAIGHT MATERIAL	<u>115,498</u>
GRAND TOTAL	535,604

ESTIMATED TONNAGE OF FEED SOLD IN
KENTUCKY FOR THE YEARS LISTED

<u>YEAR</u>	<u>TONS</u>
1920 -----	244,405
1921 -----	203,578
1922 -----	244,192
1924 -----	272,613
1925 -----	227,635
1926 -----	255,335
1927 -----	274,998
1928 -----	332,613
1929 -----	322,271
1930 -----	341,890
1939 -----	349,470
1940 -----	353,138
1941 -----	347,055
1942 -----	416,805
1943 -----	630,438
1944 -----	663,039
1945 -----	671,350
1946 -----	647,661
1947 -----	582,375
1948 -----	634,000
1949 -----	607,255
1950 -----	584,441
1951 -----	612,946
1952 -----	648,800
1953 -----	662,267
1954 -----	566,229
1955 -----	541,536
1956 -----	591,921
1957 -----	572,957
1958 -----	615,549
1959 -----	578,148
1960 -----	580,652
1961 -----	576,920
1962 -----	569,800
1963 -----	576,986
1964 -----	535,604

COMPANIES ON REPORTING SYSTEM, MARCH 1, 1965

Acme-Evans Co., Inc.
 Ade Farm Chemical
 Agway, Inc.
 Albers Milling Co.
 All-In-One Feeds, Inc.
 Allied Food Distributors, Inc.
 Allied Industries, Inc.
 Allied Mills, Inc.
 American Crystal Sugar Co.
 Anderson & Spilman
 Andrews Mills
 Apex Feed & Supply Co.
 Archer-Daniel-Midland Co.
 Armeato Import Company
 Armour and Company
 Armour Creameries
 Ashland Milling Company
 Aubrey Feed Mills, Inc.
 August Moldenhauer Mill
 Aylor & Meyer Company

Bagdad Roller Mills
 Barry Carter Milling Co.
 Barton Distilling Co.
 Bates Farm Supply (b)
 Bay State Milling Co.
 Beacon Div. of Textron
 The Beardstown Mills Co.
 Best Feeds & Farm Supplies, Inc.
 Big Sandy Wholesale Co.
 L.A. Black
 Blatchford Calf Meal Co.
 Blenda Life, Inc.
 Bobb Brothers
 The Borden Company
 The Boswell Company
 Botkins Grain & Feed Co.
 Bradley & Baker
 Bremco Alfalfa Mills, Inc.
 Brennan Packing Co.
 The Brode' Corporation
 Brown-Forman Distillers Corp.
 Brown Molasses Company
 The Buckeye Cellulose Corp.
 Buckeye Cotton Oil Division
 The Buhler Mill & Elevator Co.
 Buhner & Co., Inc.

Cadiz Milling Company
 The Carey Salt Co.
 Cargill, Incorporated
 John H. Carr Implement Co.
 Casey County Farm Supply
 Cashman's Leghorn Farm
 Cat Life Packing Co.
 Central Alfalfa, Inc.
 Central Soya Company

Clark Milling Company
 Clinton Corn Processing
 Clinton Foods, Inc.
 Clinton Milling Co., Inc.
 Cocke & Company
 H.C. Cole Milling Co.
 Colorado Milling & Elevator Co.
 Columbian Hog & Cattle Powder Co.
 Commander-Larabee Milling Company
 Consolidated Products Co.
 Cooperative Mills, Inc.
 Corn Products Company
 Cosby-Hodges Milling Co.

Daffin Corporation
 Dearborn Mills
 Decatur Cotton Oil Co.
 Diamond Crystal Salt Co.
 Diamond Laboratory
 Dixie Mills Company
 Dixie Portland Flour Co. (Tenn.)
 Dixie Portland Flour Mills (Tenn.)
 Dixie Portland Flour Mills (Kan.)
 Dixie Treat Sales Co.
 Doan Feed Products Company
 Dog Life Packing Company
 Dover Milling Company
 Dunnington Milling Company
 Durant Milling Company
 Dyersburg Oil Mill Co.

The Early & Daniel Company
 Eckhart Milling Company
 The F.L. Emmert Company
 John W. Eshelman & Sons
 Eshelman Grain Company
 Evans Milling Company, Inc.
 Excelsior Milling Company

Fabro, Inc.
 Fabro of Georgia, Inc.
 Farm Service, Inc.
 Farmers Elevators, Inc.
 Farmers Friend Mineral Company
 Farmers Hay & Seed Co. (b)
 Farmers Service (b)
 Farmers Supply Company
 Feed Service Corporation
 Finch Packing (d)
 Fish Meal Company
 Flambeau Milling Company
 Foremost Dairies
 Fort Negley Mills
 Foster Canning Company
 Frosty Morn Meats
 Henry Fruechtenicht Company, Inc.

Fruen Milling Company
 Fuhrer-Ford Milling Company

 Garland Mills, Inc.
 Garrard Farm Services
 Garrard Mills
 General Foods Corporation
 Corn Mill Division
 Gaines Division
 General Mills, Inc.
 Gethsemani Farms
 Gifford Feed & Grain
 Goldenrod Oil Meal Sales Company
 Good-Life Chemical, Inc.
 The Great Atlantic & Pacific Tea Co.
 Great Lakes Pet Food Company
 The Great Western Sugar Company
 Green County Milling Co. (b)
 Green Valley Farm Supply, Inc. (b)
 Gro-Green Chemical Company
 Gwinn Brothers Company

 Hales & Hunter Company
 Earl Hale & Son
 Peter Hand Foundation (s)
 Harpeth Mills
 Hartz Mountain Products Corporation
 Harrison Farm Supply (b)
 Harvest Brand, Inc.
 Haydon Mill & Grain Company (s)
 Haynes Milling Company
 Hayward, Inc.
 Heckle Brothers
 Dr. Heinz Company
 Helmers & Berry Feed Co. (m)
 Highland Products, Inc. (s)
 Hi-Life Packing Company
 Hill Packing Company
 Hi-Vi Dog Food Company
 Hollar & Mardis
 Holly Sugar Corporation
 Horlicks Corporation
 Howdy Distributing Company
 Hudson's Farm Service (b)
 Huff & Puff Pet Foods
 The Hunter Milling Company

 Igleheart Brothers Division
 Illinois Cereal Mills, Inc. (b)
 Illinois Soy Products Co.
 Independent Oil Mill, Inc.
 Inland Mills, Inc.
 International Milling Co.
 International Salt Co., Inc.
 The Ismert-Hincke Milling Co.

 Jacco Industries, Limited
 Jackson County Farm Bureau Coop. Ass'n.
 Jersee-Security Food Company
 John Ewing Company
 I.S. Joseph Company, Inc.

 The Kahn's Sons Co.
 Kane Molasses Lab.
 K & K Manufacturing Co.
 The Kansas Milling Co.

 Keco Milling Co.
 Kellogg Company
 Spencer Kellogg & Sons, Inc.
 Kentucky By-Product Corp.
 Kentucky Chemical Industries, Inc.
 Keynes Brothers
 Kimbell-Diamond Milling Company
 K & M Farm Service
 H.C. Knoke & Co.
 Kraft Foods

 LaCross Milling Co., Inc.
 Lake County Oil Mills
 Lake States Yeast Corp.
 Land-O-Nan Warehouse (b)
 Edmond J. Lang
 Lewisburg Roller Mills (b)
 Lexington Roller Mills, Inc.
 Life Guard Feeds
 Light Grain & Milling Co., Inc.
 Lincoln Farm Service
 Linden Mill (d)
 Lipscomb Farm Supply (b)
 Lipscomb Grain & Seed Co., Inc.
 Lowe's Feed & Hatchery (b)

 M.F.A. Grain & Feed Division
 The M.G.R. Feed Company
 Magic Feed Mills, Inc.
 Marblehead Lime Company
 Marco Mills, Inc.
 Marianna Sales Company
 Marion Milling Company
 Markin Feed Company
 Martha White Mills, Inc.
 Martha White Flour Mills of W. Va.
 Master Feed & Seed Company, Inc.
 Mavar Shrimp & Oyster Co. (Cat)
 Mayfield Milling Company, Inc.
 McCauley Brothers Seed
 McKnight-Keaton Grocery
 McMillen Feed Mills
 Memphis Cotton Oil Mill
 Mennel Milling Company
 Metcalfe County Farm Supply, Inc.
 Middlesboro Milling Company (s)
 Midland Flour Milling Company
 Mid-South Feeds, Inc.
 Midsouth Milling Company
 Midwest Feeds
 Midwest Mineral Company
 Milliken Sweet Feed Mill
 Mineral Products Company
 Model Mills
 Mohawk Roller Mills
 Monroe County Farmers Service, Inc.
 Monroe Sweet Feed Mill
 Moore-Lowry Flour Mills, Inc.
 Moorman Manufacturing Company
 The Mor-Milk Company
 John Morrell & Company
 Morristown Milling Company
 Morton Salt Company
 Mowatt, Wilson & Company
 Mt. Sterling Hatchery (b)
 Mutual Products Co. (s)
 Myson, Inc.

 H. Nagel & Son

Nashville Cotton Oil Mill Corp.
 National Additive Corporation
 National Alfalfa Dehyd. & Milling Co.
 National Biscuit Company
 National Distillers Products Company
 National Molasses Company
 National Oats Company
 National Remedy Products Co., Inc.
 National Vitamin Products Company
 Nebraska Consolidated Mills Company
 Neumond, Inc.
 Northern Ohio Sugar Company
 Charles Nunn & Sons Milling Company
 Nutrena Mills, Inc.

Odon Milling Company
 Oelwein Chemical Company
 Osceola Products Company
 Orleans Candy Company
 Orleans Canning Company
 Owensboro Grain Company
 Owensboro Milling Company (b)

Pacific Molasses Company
 Packers By-Products Company
 Pan American Mills (s)
 Phillip P. Park, Inc.
 Peavy Company Flour Mills
 Pedrick Laboratories
 Pendleton County Mills
 Penick & Ford, Ltd., Inc.
 John J. Pepin & Company
 Perk Food Company
 Philips Roxane Division
 Phillips Petroleum Company
 Pillsbury Company
 Pittsburg Plate Glass Company
 Planters Manufacturing Company
 Planters Oil Company
 Portland Feed Mill, Inc.
 Provico Feeds & Concentrates

The Quaker Oats Company
 Quinmenhaden Fisheries
 Quisenberry Mills, Inc.

Ralston Purina Company
 Lloyd Reiterman
 Reliance Chemical Corporation
 Riteway Milling Company
 Riverside Molasses Company
 Allen Robertson Company, Inc.
 Robinson Milling Company (m)
 Rome Oil Mill
 G.P. Rose & Company, Inc.
 Russells Company
 Russell-Miller Milling Company
 Ryde & Company

S & O Products, Inc.
 Sandusky Brothers

Sanford's Feed Service
 Salyersville Wholesale Company
 Charles W. Schenk & Sons (s)
 Schenley Distillers, Inc.
 John Schlemmer
 Scientific Milling Company
 Scioto Farm Bureau Coop. Ass'n.
 The Scott County Milling Company
 Seaboard Allied Milling Company
 Joseph E. Seagram & Sons, Inc.
 Security Mills, Inc.
 Shellabargers, Inc.
 The Sherwin-Williams Company
 Sikeston Cotton Oil Mill
 The W.J. Small Company, Division
 J. Allen Smith
 Smith Packing Company
 Southcoast Fisheries Company
 Southern Canning Sales, Inc.
 The Southern Cotton Oil Company (Ala.)
 The Southern Cotton Oil Company (Tenn.)
 Southern States Bardstown Cooperative
 Southern States Bowling Green Cooperative
 Southern States Boyle Cooperative
 Southern States Campbellsville Cooperative
 Southern States Carlisle Cooperative
 Southern States Clark Cooperative
 Southern States Cynthiana Cooperative
 Southern States Frankfort Cooperative
 Southern States Fulton Cooperative
 Southern States Georgetown Cooperative
 Southern States Glasgow Cooperative
 Southern States Hardin Cooperative
 Southern States Henderson Cooperative
 Southern States Hopkinsville Cooperative
 Southern States LaGrange Cooperative
 Southern States Lebanon Cooperative
 Southern States Leitchfield Cooperative
 Southern States Lexington Cooperative
 Southern States London Cooperative
 Southern States Maysville Cooperative
 Southern States Morganfield Cooperative
 Southern States Owenton Cooperative
 Southern States Russellville Cooperative
 Southern States Somerset Cooperative
 Southern States Coop. Elkton Branch
 Sowell Brothers Feed Mill
 Specialty Food Company
 Specified, Inc.
 Spen-Well Feed Company
 Sphar & Company
 St. Louis Brewers Yeast Company
 A.E. Staley Manufacturing Company
 Standard Brands, Inc.
 Standard Products Co., Inc.
 F.W. Stock & Sons, Inc.
 Suni-Citrus Products Company
 Sunshine Feed Mill, Inc.
 Sunshine Molasses Company
 Supreme Mills
 Surewill Mfg. Co., Inc.
 Sun-Ray Feed Mills (Lexington)
 Swift & Company (Chicago)
 Swift & Company (Memphis)
 Swift & Company-Oil Mill
 Swift & Company-Pard Food Dept.

Teater & Cassity Farm Service
The Topeka Flour Mills Corp.
Tree City Specialties
Trenton Cotton Oil Company
Tri-County Farm Supply
Tri-State Molasses Company

Union Sales Corporation
United Salt Corporation
Usen Canning Company

Valier & Spies Milling Company
Varner Milling Company
Vets Division Perk Foods Company
Virginia-Carolina Chemcial Corporation
Vita Fresh Dog Food Corporation
Vita Plus Corporation
Vitamineral Products Company
VyLactos Laboratories, Inc.

W & W Hamstery
Walters & Thompson (m)
Watkins Products
Weisenberger Sanitary Flour Mills
Western Condensing Company
Western Grain Company
Whitewater Flour Mills Company
Whitney Seed Company
William Davies Co., Inc.

Yieldmor Feeds, Inc.
Yopp Seed Company

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 Meal	35.4	5.8	8.2	36.0	9.0	5.6
Linseed 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 Meal	43.5	7.6	13.3	23.4	7.0	5.2
Peanut 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 Meal	44.3	5.3	5.7	29.6	9.1	6.0
Soybean 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 Mill Run	13.5	3.5	7.5	60.2	10.1	5.2
Wheat Middlings	15.0	3.5	7.0	58.7	10.3	5.4
Wheat Shorts	15.0	3.5	6.0	60.6	10.5	4.4
Wheat 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 1947-64

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 Dust	7.1	2.7	1.7
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

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.

WEIGHTS PER BUSHEL

Feeders and Feed Manufacturers often need to know the legal weight requirements for grain and seeds when sold for feeding and other purposes. The following is quoted from the Kentucky Revised Statutes in this connection.

363.040 (4821) Bushel, what weight constitutes. The following weights constitute a bushel of the article named:

- (1) Barley, forty-seven pounds.
- (2) Bluegrass seed, fourteen pounds.
- (3) Bottom onion sets, thirty-six pounds
- (4) Bran, twenty pounds.
- (5) Buckwheat, fifty-six pounds.
- (6) Castor beans, forty-five pounds.
- (7) Clover seed, sixty pounds.
- (8) Coal, seventy-six pounds.
- (9) Corn in the ear, seventy pounds, from November 1 to December 31 inclusive, and sixty-eight pounds at all other times of the year.
- (10) Corn meal, fifty pounds.
- (11) Corn, shelled, fifty-six pounds.
- (12) Dried apples, twenty-four pounds.
- (13) Dried peaches, thirty-nine pounds.
- (14) Ear corn in the shuck, seventy-five pounds.
- (15) English bluegrass seed, fourteen pounds.
- (16) Fine salt, fifty-five pounds.
- (17) Flax seed, fifty-six pounds.
- (18) Ground peas, twenty-four pounds.
- (19) Hemp seed, forty-four pounds.
- (20) Hungarian grass seed, fifty pounds.
- (21) Irish potatoes, sixty pounds.
- (22) Millet seed, fifty pounds.
- (23) Oats, shelled, thirty-two pounds.
- (24) Onions, fifty-seven pounds.
- (25) Orchard grass seed, fourteen pounds.
- (26) Peas, sixty pounds.
- (27) Plastering hair, eight pounds.
- (28) Rye, fifty-six pounds.
- (29) Salt, fifty pounds.
- (30) Sweet potatoes, fifty-five pounds.
- (31) Timothy seed, forty-five pounds.
- (32) Turnips, sixty pounds.
- (33) Unslaked lime, thirty-five pounds.
- (34) Wheat, sixty pounds.
- (35) White beans, sixty pounds.

DRUGS AND FEED ADDITIVES

Antibiotic guarantees on the label. In terms of the amount of antibiotic present, equivalents, and standards are as follows:

Bacitracin: Bacitracin, zinc bacitracin, manganese bacitracin, bacitracin methylene disalicylate are expressed in terms of bacitracin activity which they contain. One gram of activity is equal to 1.0 gram of bacitracin master standard (42,000 units).

Chlortetracycline: The term, chlortetracycline, may be used as an abbreviation for chlortetracycline hydrochloride, which is the standard.

Erythromycin: One gram of erythromycin base is equal to 1.08 gram of erythromycin thiocyanate.

Hygromycin B: One gram is equal to 1,000,000 units of hygromycin activity.

Neomycin sulfate: Label declarations should read as neomycin sulfate (providing x grams neomycin base).

Novobiocin: One gram is equal to 1.0 gram of novobiocin acid.

Nystatin: One gram is equal to 2,800,000 units.

Oleandomycin: One gram is equal to 1.0 grams of oleandomycin base.

Oxytetracycline: One gram is equal to 1.0 gram of oxytetracycline hydrochloride.

Penicillin: The term, penicillin, refers to sodium penicillin G (master standard) which is equivalent to 1.667 gram procaine penicillin.

Streptomycin: One gram is equal to 1.0 gram of streptomycin base.

Tylosin: One gram is equal to 1.0 gram of tylosin base.

NOTE: In guarantees on a feed label the form of the antibiotic may be shown in parenthesis. Example: Penicillin (from procaine penicillin) 6 grams per ton, Penicillin (from procaine salt) 6 grams per ton, Bacitracin (from zinc bacitracin) 10 grams per ton. When a guarantee is made in this manner on either a medicated or non-medicated type of label, the antibiotic need not be included in the list of ingredients.

Certifiable Antibiotics, a special class of drugs, are those antibiotics listed in Section 507 (a) of the Federal Food, Drug, and Cosmetic Act, namely

penicillin
streptomycin
chlortetracycline
chloramphenicol
bacitracin

and any derivative thereof. Examples of derivatives would be dihydrostreptomycin, zinc bacitracin, and tetracycline. When drugs subject to certification are added to animal feeds, data must be available to show the safety and therapeutic efficacy for the claims made in the labeling. When new drugs are included in a product containing a certifiable antibiotic, the claims for therapeutic efficacy and safety must be established for the combination, and an Antibiotic Form 10 must be filed with the Food and Drug Administration before the product may be legally marketed in interstate commerce. The Antibiotic Form 10 is for all intents and purposes a new drug application.

New Drugs are those drugs for which the safety and effectiveness, because of short time in use, has not been completely established. Before feeds

containing new drugs can be marketed in interstate commerce, there must be on file with the Food and Drug Administration an effective new drug application for the particular feed. The effectiveness for the intended purpose of drugs used in feeds did not need approval of the Federal Food and Drug Administration before passage of the Food Additive Amendment of 1958. New Drug applications receiving clearance prior to that date were cleared on the basis of safety alone. Antibiotics which are not subject to certification are handled as new drugs under the Federal Food, Drug, and Cosmetic Act. The following are new drugs as of August 1964:

2-acetyl-amino-5-nitrothiazole
 amprolium
 amprolium and ethopabate
 arsenosobenzene
 bithionol and methiotriazamine
 pyrimethamine (2,4-diamino-5 (p-chlorophenyl) 6-ethylpyrimidine)
 dienestrol diacetate
 diethylcarbamazine
 diethylstilbestrol
 3,5-dinitrobenzamide
 enzymes (except pepsin)
 glycarbylamide
 hygromycin B (in chicken feeds)
 nicarbazin
 nihydrazone
 nithiazide
 novobiocin
 nystatin
 oleandomycin
 promazine hydrochloride
 reserpine
 ronnel
 thiabendazole
 tylosin
 p-ureidobenzeneearsonic acid
 zoalene

Not new Drugs. Certain drugs cease to be classified as new drugs at specified levels and uses when, in the opinion of experts qualified to judge the safety and effectiveness of new drugs, sufficient experience has been gained in their use to warrant their classification as "not new drugs". These drugs may be new drugs under other specific conditions of use and representation. Any question concerning level or use should be referred to the Federal Food and Drug Administration. Before passage of the "Kefauver-Harris Amendments of 1962" effectiveness was not a criterion for drugs being given "not new drug" status. The following are not new drugs as of August 1964:

acetyl(p-nitrophenyl) sulfanilamide
 amino nitrothiazole
 arsanilic acid
 cadmium anthranilate
 cadmium oxide
 ethylene diamine dihydriodide
 di-n-butyltin dilaurate
 dichlorophen (2,2' dihydroxy-5,5' dichlorodiphenyl-methane)
 dimethylpolysiloxane
 dinitrophenylsulfonylethylenediamine'
 dried rumen bacteria
 dynafac
 erythromycin thiocyanate
 furazolidone
 hygromycin B (in swine feeds)
 iodinated casein
 menadione sodium bisulfite
 neomycin
 nicotine
 3-nitro-4- hydroxyphenyl arsonic acid
 nitrofurazone
 nitrophenide

4-nitrophenyl-arsonic acid
oxytetracycline
pepsin
phenothiazine
phthalylsulfacetamide
piperazine dihydrochloride and monohydrochloride
piperazine hexahydrate
piperazine phosphate monohydrated
piperazine sulfate
propylene glycol
sodium arsanilate
sodium fluoride
sodium propionate
sulfaquinoxaline
sulfathiazole
vitamin D (for prevention of milk fever)

Feed or Food Additives. A feed or food additive is the legal status of any substance the intended use of which results or may reasonably be expected to result, directly or indirectly, in its becoming a component or otherwise affecting the characteristics of any food or feed (including any substance intended for use in producing, manufacturing, packing, preparing, treating, packaging, transporting, or holding feed or food), if such substance is not generally recognized, among experts qualified by scientific training and experience to evaluate its safety, as having been adequately shown through scientific procedures (or in case of a substance used in feed or food prior to January 1, 1958, through either scientific procedures or experience based on common use in feed or food) to be safe under the conditions of its intended use. Excepted are substances used in accordance with a sanction or approval granted under the Federal Food, Drug, and Cosmetic Act prior to January 1, 1958, pesticide chemicals in or on raw agricultural commodities or pesticide chemicals that are intended for use or are used in the production, storage, or transportation of any raw agricultural commodity, and color additives. (Refer to section 201 (s) of Federal Food, Drug, and Cosmetic Act.)

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1964

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
Acme-Evans Co., Inc., Indianapolis, Indiana	3	3	
Ade Farm Chemical Co., Tiskilwa, Illinois	2	1	1
Albany Mills, Albany, Kentucky	3	3	
Albers Milling Co., Los Angeles, California	5	4	1
Allen Products Co., Inc., Allentown, Pennsylvania	9	9	
Allied Food Distributors, Inc., Atlanta, Ga.	11	11	
Allied Industries, Inc., Fort Worth, Texas	1	1	
Allied Mills, Inc., Chicago, Illinois	100	92	8
Anderson & Spilman, Danville, Kentucky	2	2	
Andrews Mills, Russellville, Kentucky	6	6	
Anglo Sweet Feed Mill, Inc., Owensboro, Kentucky	7	7	
Apex Feed & Supply, Inc., Marietta, Ohio	1		1
Archer-Daniels-Midland Co., Minneapolis, Minn.	12	12	
Arkansas City Mills, Arkansas City, Kansas	1	1	
Armour & Co., Chicago, Illinois	3	3	
Ashland Milling Co., Inc., Ashland, Kentucky	22	16	6
The Great Atlantic & Pacific Tea Co., New York, New York	7	7	
The Auburn Mills, Inc., Auburn, Kentucky	8	3	5
Aubrey Feed Mills, Inc., Louisville, Ky.	182	168	14
Aylor & Meyer Co., Aurora, Indiana	9	9	
Bagdad Roller Mills, Inc., Bagdad, Kentucky	46	39	7
Baltic Mills, Inc., Vincennes, Indiana	2	2	
Banner Feed Mills, Huntington, West Virginia	3	2	1
Bardwell Milling Co., Bardwell, Kentucky	1	1	
Barton Distilling Co., Bardstown, Kentucky	2	2	
Barry-Carter Milling Co., Lebanon, Tennessee	1		1
Baughman Milling Co., Stanford, Kentucky	15	14	1
Bates Farm Supply, Dry Ridge, Kentucky	3	3	
Bath County Milling Co., Owingsville, Kentucky	2	2	
Bay State Milling Co., Winona, Michigan	1	1	
Bay State Milling Co., Leavenworth, Kansas	1	1	
Beacon Division of Textron, Inc., Kansas City, Mo.	39	32	7
B.A. Bernard & Co., Inc., Camden, New Jersey	1		1
Best Feeds & Farm Supplies, Inc., Oakdale, Pa.	2	1	1
Best Food Division Corn Products Co., New York, New York	1	1	
Bi-County Farm Bureau Cooperative, Florence, Ky.	19	19	
Big 4 Feed & Implement Co., Scottsville, Ky.	1	1	
Birmingham Milling Co., Benton, Kentucky	4	3	1
Bobb Brothers, Leeburg, Ohio	5	5	
Bow Wow Co., Rolla, Missouri	2	2	
Boyle Packing Co., Danville, Kentucky	2	2	
Brown-Forman Distillers Corp., Louisville, Ky.	2	2	
Brown Molasses Co., Inc., North Webster, Indiana	5	4	1
Browder Milling Co., Fulton, Kentucky	16	16	
Bryant & Crume Milling Co., Caneyville, Ky.	5	3	2
Buckeye Cellulose Corp., Cincinnati, Ohio	4	3	1
Buhler Mills, Inc., Buhler, Kansas	1	1	
Burch Hester Feed Store, Hustonville, Kentucky	3	2	1
Bush Brothers & Co., Clinton, Tennessee	16	16	
Burson Milling Co., Memphis, Tennessee	1	1	
A.C. Butts & Son, Fulton, Kentucky	4	4	
Cadiz Milling Co., Cadiz, Kentucky	8	7	1
Callao Foods, Inc., Callao, Virginia	1	1	
Caneyville Roller Mills, Caneyville, Kentucky	5	3	2
Cann Brothers, Leitchfield, Kentucky	2	2	
Cardinal Food Products, Inc., St. Louis, Mo.	2		2
Cargill, Inc., Cincinnati, Ohio	2	2	
Carnation Company, Los Angeles, California	16	16	
Carroll County Farm Bureau Cooperative, Carrollton, Kentucky	3	3	
Cat Life Packing Company, Chicago, Illinois	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
Central Soya, Inc., Fort Wayne, Indiana	209	168	41
Chef Pet Foods, Delavan, Wisconsin	1	1	
Citizens Milling Company, Somerset, Kentucky	5	3	2
Clarkson Feed Store, Clarkson, Kentucky	1	1	
Clinton Corn Processing Co., Clinton, Iowa	2		2
Clinton Hatchery, Clinton, Kentucky	13	6	7
Clinton Milling Company, Clinton, Kentucky	44	40	4
H.C. Cole Milling Company, Chester, Illinois	6	5	1
Colorado Milling & Elevator Co., Denver, Colorado	1	1	
Community Mills, Belton, Kentucky	10	5	5
Community Milling Company, Irvington, Kentucky	8	8	
Crescent Roller Mills, Inc., Taylorsville, Ky.	6	5	1
Cooperative Mills, Inc., Cincinnati, Ohio	294	252	42
Crestwood Farmers Supply Center, Crestwood, Ky.	10	8	2
Culton's Seed Cleaners, Winchester, Kentucky	2	2	
Custom Feed Mills, Morganfield, Kentucky	13	13	
Daffin Corporation, Lancaster, Pennsylvania	1	1	
Dearborn Mills, Aurora, Indiana	37	35	2
Decatur Cotton Oil Company, Decatur, Alabama	3	3	
W.C. Dicken & Son, Mentor, Kentucky	19	17	2
Dinner Bell Dog Food Co., South Lyon, Michigan	1		1
Dixie Mills Company, East St. Louis, Illinois	16	10	6
Dixie Portland Flour Mills, Arkansas City, Kansas	1	1	
Dixie Portland Flour Mills, Chattanooga, Tenn.	1	1	
Dixie Portland Flour Mills, Memphis, Tennessee	2	2	
Doane Feed Products Company, Joplin, Missouri	1		1
Dog Life Packing Company, Chicago, Illinois	2	1	1
Dover Milling Company, Dover, Ohio	1	1	
Duncan-McFarland Farm Service, Lawrenceburg, Ky.	1	1	
Durant Milling Company, Durant, Oklahoma	1	1	
Dyersburg Oil Mill Company, Dyersburg, Tennessee	7	6	1
Early & Daniel Company, Cincinnati, Ohio	83	55	28
Eckhart Milling Company, Chicago, Illinois	1	1	
The F.L. Emmert Company, Cincinnati, Ohio	2	2	
Empire Distributing Company, St. Louis, Missouri	1	1	
John W. Eshelman & Sons, Lancaster, Pennsylvania	26	25	1
Ewing Mill Company, Ewing, Indiana	6	6	
Fabro, Inc., Atlanta, Georgia	6	6	
Fabro of Georgia, Inc., Atlanta, Georgia	1	1	
Famous Feed Mills, Nashville, Tennessee	21	10	11
Farm Bureau Milling Company, Hammond, Indiana	4	3	1
Farmers Elevators, Inc., Owensboro, Kentucky	16	12	4
Farmers Feed Store, Central City, Kentucky	5	5	
Farmington Sweet Feed Mill, Farmington, Kentucky	1	1	
The Farm Service Center, Inc., Beaver Dam, Ky.	2	2	
Farm Service, Inc., Glasgow, Kentucky	14	9	5
Farmers & Merchants Milling Co., Brooksville, Ky.	1	1	
Farmers Milling Company, Somerset, Kentucky	6	6	
Farmers Supply Company, Beaver Dam, Kentucky	1	1	
Farmers Supply Store, Inc., Leitchfield, Kentucky	1	1	
Farmers Supply & Produce Co., Monticello, Ky.	4	4	
Farmers Tankage Co., Henderson, Kentucky	5	5	
J.H. Fedders, Inc., Covington, Kentucky	11	11	
Feeders Supply Company, Louisville, Kentucky	2	2	
Fields Packing Company, Owensboro, Kentucky	2	1	1
The Fleischmann Distilling Corp., Owensboro, Ky.	1	1	
Fischer Packing Company, Louisville, Kentucky	14	12	2
Fischer Products Company, Jacksonville, Florida	1	1	
Henry Fruechtenicht Company, Louisville, Kentucky	173	131	42
Folsomdale Milling Company, Boaz, Kentucky	4	3	1
Foremost Dairies, Inc., Burlingame, California	1	1	
Frosty Morn Meat, Clarksville, Tennessee	4	4	

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1964

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
Fruen Milling Company, Minneapolis, Minnesota	2	2	
Fuhrer-Ford Mill Company, Mt. Vernon, Indiana	13	13	
Funk Brothers Seed Company, Bloomington, Illinois	1	1	
Gallatin County Farm Supply, Warsaw, Kentucky	3	3	
Garden Street Mill & Elevator, Louisville, Ky.	3	3	
Garrard Mills, Lancaster, Kentucky	13	8	5
General Foods, Inc., White Plains, New York	7	7	
General Mills, Inc., Minneapolis, Minnesota	7	7	
General Packing Company, Waynesville, Ohio	4	4	
Germantown Milling Company, Germantown, Kentucky	4	3	1
Giant Wholesale Company, Johnson City, Tennessee	1	1	
Gilster Milling Company, Chester, Illinois	9	7	2
Glenmore Distilleries Company, Owensboro, Ky.	2	2	
Goldenrod Oil Meal Sales Company, Memphis, Tenn.	1	1	
Green County Milling Co., Greensburg, Kentucky	1	1	
Green Valley Mills, Nanuet, New York	1	1	
Griffin Fertilizer Company, Butler, Kentucky	6	3	3
Gro-Green Chemical Company, Shelbyville, Ky.	1	1	
Guthrie Farm Supply, Harrodsburg, Kentucky	2	2	
Gwinn Brothers & Company, Huntington, West Va.	15	12	3
Earl Hale & Son, Jasper, Ohio	3	2	1
Hales & Hunter, Chicago, Illinois	59	33	26
Happy Valley Mills, Glasgow, Kentucky	5	5	
Hardin Feed Mill, Hardin, Kentucky	4	4	
Hardin County Milling Company, Elizabethtown, Ky.	1	1	
Hardy Brothers Mills, Walton, Kentucky	14	11	3
Hartz Mountain Products Corp., New York City, N.Y.	5	5	
Harvest Brand, Inc., Pittsburg, Kansas	5	3	2
T.J. Haycraft Sales & Service, Leitchfield, Ky.	5	5	
Haydon Mill & Grain Co., Springfield, Ky.	5	5	
Heaven Hill Distilleries, Inc., Bardstown, Ky.	6	6	
Dr. Heinz Company, Inc., Bloomingburg, Ohio	10	9	1
Henderson Feed & Commission Co., Henderson, Ky.	2	2	
Hill Packing Co., Topeka, Kansas	4	4	
Hickman County Feed Mill, Clinton, Kentucky	1	1	
Hi-Vi Dog Food Company, Rush Springs, Oklahoma	1	1	
Hi-Life Packing Company, Chicago, Illinois	1	1	
Hodgenville Roller Mills, Hodgenville, Kentucky	1	1	
Home Milling Company, Greenville, Kentucky	15	10	5
Hopkinsville Milling Company, Hopkinsville, Ky.	6	6	
Horlicks Corporation, Racine, Wisconsin	2	2	
Huff & Puff Pet Foods, Inc., Reedville, Va.	1		1
Hulman & Company, Evansville, Indiana	1	1	
Igleheart Brothers, Evansville, Indiana	5	5	
Illinois Cereal Mills, Paris, Illinois	3	3	
Illinois Soy Products Company, Springfield, Ill.	6	5	1
Inland Products Company, Inc., Columbus, Ohio	2	1	1
Independent Oil Mill Company, Jackson, Tennessee	5	5	
I.S. Joseph Company, Inc., Minneapolis, Minn.	1	1	
Kaler Milling Company, Symsonia, Kentucky	2	2	
Kane Molasses Laboratories, Inc., Mt. Pulaski, Illinois	2	2	
Keller Hay & Grain Company, Newport, Kentucky	3	3	
Kellogg Sales Company, Battle Creek, Michigan	2	2	
Kentucky Animal By-Product Company, Russellville, Kentucky	1		1
Kentucky By-Product Corporation, Louisville, Ky.	5	5	
Kentucky Chemical Industries, Cincinnati, Ohio	4	4	
Klarer Company, Louisville, Kentucky	4	4	
Knifley Feed & Supply, Elkhorn, Kentucky	2	1	1

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1964

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
Kraft Foods Company, Chicago, Illinois	3	3	
Krey Packing Company, St. Louis, Missouri	1	1	
La Cross Milling Company, Cochrane, Wisconsin	1	1	
Lake County Oil Mill, Tiptonville, Tennessee	3	3	
Lamar SRL, Buenos Aires, Argentina	1	1	
Laswell Milling Company, Brodhead, Kentucky	2	1	1
Lee Dog Food Company, LaGrange, Kentucky	1		1
Lewisburg Roller Mills, Lewisburg, Kentucky	2	1	1
Lexington Roller Mills, Inc., Lexington, Ky.	24	22	2
Life Guard Feed, Columbus, Ohio	2	2	
Lilly Brothers Seed Company, Hopkinsville, Ky.	2	2	
Lofton's Feed & Grain Company, Clay, Kentucky	1	1	
London Feed & Milling Company, London, Kentucky	1	1	
Louisa Supply Company, Louisa, Kentucky	3	2	1
Lovelaceville Feed Mill, Lovelaceville, Kentucky	6	6	
Lowe's Feed & Hatchery, Bowling Green, Kentucky	2	2	
Magic Feed Mills, Inc., Paoli, Indiana	2	2	
Mavar Shrimp & Oyster Company, Biloxi, Miss.	3	3	
Mayfield Milling Company, Mayfield, Kentucky	4	4	
Mayfield Sweet Feed Mill, Mayfield, Kentucky	20	18	2
Mayflower Mills, Ft. Wayne, Indiana	1	1	
McGahan Feed Company, Paintsville, Kentucky	2	2	
McKnight-Keaton Grocery Company, Sikeston, Mo.	3	3	
Meadows Feed & Building Supply, Clay City, Ky.	3	3	
Medley Distilling Company, Owensboro, Kentucky	1	1	
The Mennel Milling Company, Postoria, Ohio	3	3	
Metzger Brothers, Paducah, Kentucky	2	1	1
Middlesboro Milling Company, Middlesboro, Ky.	12	12	
Midget Mills, Somerset, Kentucky	8	5	3
Mid-South Milling Company, Memphis, Tennessee	2	2	
S.E. Mighton Company, Bedford, Ohio	6	6	
Minter City Oil Mill, Minter City, Mississippi	1	1	
Mississippi Cottonseed Products Co., Hollandale, Mississippi	1	1	
The Model Mill Company, Inc., Jackson, Tenn.	1	1	
Model Mills, Georgetown, Kentucky	1	1	
Monarch Milling Company, Mt. Sterling, Kentucky	1	1	
Moorman Manufacturing Company, Quincy, Illinois	14	14	
Morgan Packing Company, Austin, Indiana	2	2	
Morgantown Feed Mill, Morgantown, Kentucky	2	2	
John Morrell and Company, Ottuwa, Iowa	7	7	
Mt. Vernon Milling Company, Mt. Vernon, Indiana	4	4	
Munfordville Milling Company, Munfordville, Ky.	1	1	
Murphy Grain and Milling Company, Owensboro, Ky.	1	1	
H. Nagel & Sons, Cincinnati, Ohio	1	1	
Nashville Cotton Oil Mill Corporation, Nashville, Tennessee	3	2	1
National Biscuit Company, New York City, N.Y.	6	6	
National Oats Company, East St. Louis, Illinois	70	56	14
National Packing Company, Greenville, Miss.	1	1	
The New Era Milling Company, Arkansas City, Kan.	3	1	2
Nicholas County Feeders Supply, Carlisle, Ky.	1	1	
Northern Ohio Sugar Company, Finley, Ohio	1	1	
9-Lives Pet Food Company, Terminal Island, California	2	2	
Charles Nunn & Sons Milling Company, Evansville, Indiana	24	23	1
Nutrena Mills, Minneapolis, Minnesota	27	22	5

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1964

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
Old Stanley Distillery, Inc., Stanley, Kentucky	1	1	
Orleans Canning Company, Chicago, Illinois	4	3	1
Orleans Dog Candy Company, Chicago, Illinois	2	1	1
Owensboro Grain Company, Inc., Owensboro, Ky.	14	12	2
Owensboro Milling Company, Owensboro, Ky.	34	28	6
Pan American Mills, Bowling Green, Kentucky	33	29	4
Pedrick Laboratories, Sand Springs, Oklahoma	1	1	
Pendleton County Mills, Falmouth, Kentucky	1	1	
Pennington Milling Company, Pennington Gap, Va.	2	2	
Perk Dog Food Company, Chicago, Illinois	2		2
Pet Food Packers, Washington C.H., Ohio	3	2	1
Pierce & Williams, Hopkinsville, Kentucky	1	1	
The Pillsbury Mills, Minneapolis, Minnesota	33	22	11
Pittsburg Plate Glass Company, Red Wing, Minn.	2	2	
Planters Oil Mill, Tunica, Mississippi	3	2	1
Portland Feed Mills, Portland, Tennessee	2	1	1
Poseyville Grain & Feed Distributor, Poseyville, Indiana	1	1	
Prairie Dehydrating Company, Roanoke, Illinois	2	2	
Princeton Mills, Princeton, Kentucky	9	8	1
Proctor & Gamble, Cincinnati, Ohio	1	1	
Proviso Feed & Concentrate, Botkins, Ohio	12	12	
Quaker Oats Company, Chicago, Illinois	61	51	10
C.B. Ragland, Nashville, Tennessee	2	2	
Ralston Purina Company, St. Louis, Missouri	277	243	34
Randolph Milling Company, Bandana, Kentucky	8	8	
Reelfoot Alfalfa Mill, Tiptonville, Tennessee	2	2	
Regal Feed Mills, Nashville, Tennessee	1	1	
Riteway Milling Company, Otway, Ohio	7	4	3
Rival Packing Company, Chicago, Illinois	7	7	
Robbins Brothers, Auburn, Kentucky	6		6
Roberts Brothers, Burlington, Kentucky	5	4	1
Allen Robertson & Company, Inc., Louisville, Ky.	4		4
The Robertson Corp., Ewing, Indiana	5	5	
Robinson Grain Company, Union City, Tennessee	1	1	
Robinson Milling Company, Somerset, Kentucky	27	14	13
Rockingham Poultry Marketing Cooperative, Broadway, Virginia	1	1	
Rogers Feed Store, Corinth, Kentucky	5	5	
G.P. Rose and Company, Nashville, Tennessee	5	5	
Ross Feed Company, Murray, Kentucky	5	4	1
Russell Springs Milling Company, Russell Springs, Kentucky	2	2	
Ryle and Company, Chicago, Illinois	1	1	
Salyersville Wholesale, Inc., Salyersville, Ky.	2	1	1
Sandusky Brothers, Harrodsburg, Kentucky	7	4	3
Charles H. Schenk & Son, Vincennes, Indiana	1		1
John Schlemmer, Harrison, Ohio	3	3	
Scott County Milling Company, Sikeston, Mo.	8	7	1
Joseph E. Seagram & Sons, Inc., New York, N.Y.	3	2	1
Security Mills, Inc., Knoxville, Tennessee	6	5	1
Sikeston Cotton Oil Mill, Inc., Sikeston, Mo.	1	1	
Simpson Milling Company, Columbia, Kentucky	1	1	
Siemer Milling Company, Teutopolis, Illinois	1	1	
J. Allen Smith & Company, Inc., Knoxville, Tenn.	3	3	
Smithfield Milling Company, Smithfield, Ky.	1	1	
Southern Cotton Oil, Huntsville, Alabama	6	6	
Southern States Cooperative, Richmond, Va.	4	3	1
Southern States Bardstown Cooperative, Bardstown, Kentucky	1	1	
Southern States Elizabethtown Cooperative, Elizabethtown, Kentucky	2	2	

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1964

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
Southern States Georgetown Cooperative, Georgetown, Kentucky	1	1	
Southern States Glasgow Cooperative, Glasgow, Ky.	3	3	
Southern States Hopkinsville Cooperative, Hopkinsville, Kentucky	6	4	2
Southern States LaGrange Cooperative, LaGrange, Kentucky	5	5	
Southern States Leitchfield Cooperative, Leitchfield, Kentucky	3	2	1
Southern States Owenton Cooperative, Owenton, Ky.	3	3	
Southern States Shelbyville Cooperative, Shelbyville, Kentucky	2	2	
Southern States Somerset Cooperative, Somerset, Kentucky	2	2	
Sowell Brothers Feed Mill, Cerulean, Kentucky	2	2	
Spears-Kiser Company, Inc., Paris, Kentucky	1	1	
Woodford Spears & Sons, Paris, Kentucky	10	10	
Spencer Farm Service, Taylorsville, Kentucky	2	2	
Spen-Well Feed Company, Winchester, Kentucky	72	50	22
Sportsman Dog Food Company, Chicago, Illinois	1	1	
A.E. Staley Manufacturing Company, Decatur, Ill.	7	7	
Star-Kist Foods, Inc., Terminal Island, California	6	6	
Stewart's Feed Mill, Flat Lick, Kentucky	5	3	2
Strongheart Packing Company, Chicago, Illinois	4	3	1
Sturgis Milling Company, Sturgis, Kentucky	9	9	
Success Mills, Inc., National Stock Yards, Ill.	1	1	
Sun-Ray Feed Mill, Bowling Green, Kentucky	1	1	
Sunshine Biscuits Inc., Long Island, N.Y.	2	2	
Supreme Feed Mills, Glasgow, Kentucky	40	33	7
Surewill Milling Company, Farmington, Ky.	1	1	
D.B. Sutherland & Sons, Bloomfield, Kentucky	23	15	8
Sweet Feed Mills, Bowling Green, Kentucky	1	1	
Swift & Company, Chicago, Illinois	22	22	
Tabor Feed Mill, Columbia, Kentucky	5	5	
Terry Lee Products, St. Paul, Minnesota	1	1	
T & H Feed Service, Lebanon, Kentucky	1	1	
Taylor County Feed Company, Campbellsville, Ky.	2	2	
Teater & Cassity Farm Service, Nicholasville, Ky.	1	1	
The Thorobred Company, Inc., Waynesville, Ohio	6	2	4
Thurmond's Coal and Feed Company, Murray, Ky.	4	3	1
Mr. Toymaker Enterprises, Inc., Atlanta, Ga.	1	1	
Trenton Oil Mill Company, Trenton, Tennessee	7	7	
Tri-Associates, Inc., Minneapolis, Minn.	1	1	
Tri-County Farm Supply, Corbin, Kentucky	3	3	
Tri-State Mills, Kenova, West Virginia	1	1	
Usen Canning Company, Woburn, Massachusetts	2	2	
Union County Grain Company, Union City, Tenn.	1		1
Van Camp Sea Food Company, Port of Long Beach, California	2	2	
Vets Division of Perk Dog Food Company, Chicago, Illinois	5	5	
Warner's Farm Supply, Somerset, Kentucky	2		2
The George Wiedemann Brewing Company, Newport, Kentucky	2	2	
Weisenberger Sanitary Flour Mills, Midway, Ky.	6	6	
West Ninth Street Mill, Owensboro, Kentucky	3	3	
West Tennessee Soya Mills, Inc., Tiptonville, Tennessee	4	4	
Western Grain Company, Birmingham, Alabama	5	5	
The Whitewater Flour Mills Company, Whitewater, Kansas	4	4	

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1964

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
Martha White Mills of West Virginia, Huntington, West Virginia	15	15	
Williamstown Roller Mill, Williamstown, Kentucky	6	6	
Wilson & Company, Chicago, Illinois	3	3	
Winn Milling Company, Greensburg, Kentucky	3	3	
Woolcott Mills, Inc., Lexington, Kentucky	7	5	2
Woodford Feed Company, Versailles, Kentucky	1	1	
Woodford Veterinary Clinic, Versailles, Kentucky	1	1	
	3372	2832	540
		84.0%	16%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Ade Farm Chemical Company, Tiskilwa, Illinois Vi-Min-Las Blocks	Sugar 32.0 %	27.6%
Allen Products Company, Inc., Allentown, Pennsylvania Alpo Beef Chunks & Meat By-Products	Crude Fat 7.0%	17.4%
Allied Mills, Inc., Chicago, Illinois		
Wayne 36% Poultry Mixer Medicated M-29	Arsanilic Acid 0.02%	0.025%
Wayne 36% Poultry Mixer Medicated M-29	Arsanilic Acid 0.02%	0.0267%
Wayne 36% Poultry Mixer Medicated M-29	Arsanilic Acid 0.02%	0.0315%
Wayne 36% Poultry Mixer Medicated M-29	Arsanilic Acid 0.02%	0.026%
Wayne 36% Poultry Mixer Medicated M-29	Crude Fiber 6.5%	8.4%
Wayne 42% Dairy Supplement R 81	Calcium 2.0%	4.1%
Wayne 36% Universal Mixer	Calcium 3.5%	5.0%
Wayne Medicated Tail Curler Jr. M-65	Sulfaquinoxaline 0.011%	0.015%
Apex Feed & Supply Inc., Marietta, Ohio Tasty Dog Food	Crude Fiber 5.0%	5.6%
Ashland Milling Company, Inc., Ashland, Kentucky		
Mi-Choice 16% Dairy Feed	NPN from Urea 5.0%	8.0%
E & E Special 24% Dairy Feed	Crude Fiber 10.0%	11.3%
E & E Special 24% Dairy Feed	Crude Protein 24.0%	23.3%
E & E Special 24% Dairy Feed	Crude Fiber 10.0%	12.8%
E & E Special 24% Dairy Feed	Crude Protein 24.0%	21.4%
Mi-Choice Dairy Feed	Crude Protein 24.0%	22.8%
Mi-Choice Dairy Feed	Crude Protein 24.0%	22.5%
The Auburn Mills, Inc., Auburn, Kentucky		
Leader Mixed Feed	Crude Protein 14.0%	12.8%
Leader Mixed Feed	Crude Protein 14.0%	11.9%
Leader Mixed Feed	Crude Protein 14.0%	12.4%
Leader Wheat Bran	Crude Fiber 8.0%	9.0%
Leader Wheat Bran	Crude Fiber 8.0%	9.4%
Aubrey Feed Mills, Inc., Louisville, Kentucky		
Red A 36% Poultry Layer Supplement	Crude Fiber 6.0%	6.6%
Red A 36% Poultry Layer Supplement	Crude Protein 36.0%	35.2%
Red A 36% Poultry Layer Supplement	Crude Fiber 6.0%	7.0%
Red A Starter & Grower Mash Medicated	Amprolium 0.008%	0.0103%
Red A Starter & Grower Mash Medicated	Amprolium 0.008%	0.0104%
Red A 16% Cage Layer Ration	Calcium 3.0%	4.5%
Red A Broiler Finisher Pellets Medicated	Amprolium 0.0125%	0.0134%
Red A Broiler Finisher Pellets Medicated	Ethopabate 0.0004%	0.0005%
Supreme 24% Dairy Feed	Crude Protein 24.0%	22.5%
Red A 40% Hog Supplement Pellets	Calcium 3.0%	4.9%
Red A 40% Hog Supplement Cubes	Crude Protein 40.0%	38.9%
Red A 35% Sow Supplement Pellets Medicated	Calcium 3.0%	5.0%
Red A 16% Sow & Pig Pellets Medicated	3-Nitro-4 0.0025%	0.0033%
Red A Swine Wormer Feed Pellets	Piperazine 0.60%	0.49%
Ground Oats	Crude Fiber 12.0%	13.9%
Aubrey's 44% Soybean Meal	Crude Fiber 7.0%	8.3%
Bagdad Roller Mills, Inc., Bagdad, Kentucky		
Rocket Age Lay Ration Medicated	Arsanilic Acid 0.1%	0.0131%
Rocket Age Lay Ration Medicated	Arsanilic Acid 0.1%	0.0137%
Rocket Age Lay Ration Medicated	Arsanilic Acid 0.1%	0.0131%
Rocket Age Lay Ration Medicated	Arsanilic Acid 0.1%	0.0126%
Rocket Age 32% Dairy Concentrate	N.P.N. from Urea 10.5%	12.4%
Rocket Age 44% Dairy Concentrate	N.P.N. from Urea 20.0%	22.3%
Rocket Age 16% Shroat Grower Medicated	Arsanilic Acid 0.01%	0.007%
Banner Feed Mills, Huntington, West Virginia 16% Yellow Tag Sweet Mixing Feed	N.P.N. from Urea 5.25%	7.2%
Barry-Carter Milling Company, Lebanon, Tennessee Fortune Hominy Feed	Crude Fiber 6.0%	8.4%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Baughman Milling Company, Stanford, Kentucky Big B 24% Dairy Feed	Crude Protein 24.0%	23.2%
Beacon Division of Textron, Inc., Kansas City, Mo. Professional Layer Mixer	Crude Protein 36.0%	34.6%
Professional Dairy Mixer	N.P.N. from Urea 21.3%	23.9%
Professional Dairy Mixer	Calcium 3.5%	4.9%
Professional Dairy Mixer	N.P.N. from Urea 14.55%	19.4%
Professional Four Bells 34% Dairy Concentrate	Crude Protein 34.0%	32.9%
Professional Karmels A Medicated Pellets	Crude Protein 32.0%	30.1%
Professional Sow-Lass A Pellets	Salt 1.2%	2.7%
Professional Karmels 40 Medicated	Crude Protein 40.0%	38.6%
B.A. Bernard & Company, Inc., Camden, New Jersey Trim Beef, Beef By-Products Dog Food	Crude Fat 6.0%	11.2%
Best Feeds and Farm Supplies, Oakdale, Pennsylvania Joy Dog Food Kibbled	Crude Fat 7.0%	13.7%
Birmingham Milling Company, Benton, Kentucky Ground Wheat		contained weed seeds
Brown-Molasses Co., Inc., North Webster, Indiana Handy-Las 42% Sugar	Sugar 42%	35.8%
Bryant & Crume Milling Co., Caneyville, Kentucky Gold Medal 40% Hog Concentrate Medicated	Arsanilic Acid 0.05%	0.067%
Gold Medal 12½% Hog Fattener Medicated	Arsanilic Acid 0.01%	0.0145%
Buckeye Cellulose Corporation, Cincinnati, Ohio Buckeye 41% Cottonseed Meal	Crude Protein 41.0%	40.0%
Burch Hester Feed Store, Hustonville, Kentucky Big Chief 20% Dairy Feed	Crude Protein 20.0%	18.7%
Cadiz Milling Company, Cadiz, Kentucky Check-R-Mix Medicated Pig Pre-starter J	Crude Fiber 6.0%	6.6%
Caneyville Roller Mills, Caneyville, Kentucky Kentucky Farm 20% Starting & Growing Mash Med.	Arsanilic Acid 0.01%	0.003%
Kentucky Farm 20% Starting & Growing Mash Med.	Furazolidone 0.0083%	None
Kentucky Farm 20% Starting & Growing Mash Med.	Nitrofurazone 0.0056	None
Cardinal Food Products, Inc., St. Louis, Missouri Pointer Dog Food	Crude Protein 10.0%	9.2%
Pointer Dog Food	Crude Fat 2.0%	1.0%
Pointer Dog Food	Crude Protein 10.0%	9.0%
Pointer Dog Food	Crude Fat 2.0%	0.8%
Central Soya, Inc., Fort Wayne, Indiana Master Mix Egg Concentrate 263	Calcium 5.0%	5.7%
Master Mix Chick Starter 103-04A Medicated	Zoalene 0.0125%	0.0097%
Master Mix Chick Starter 103-04A Medicated	Zoalene 0.0125%	0.0097%
Master Mix Calf Mixer 559	Calcium 1.5%	3.1%
Master Mix Blended Fifty 675	Crude Protein 50.0%	48.6%
Master Mix Blended Fifty 675	Crude Protein 50.0%	48.8%
Master Mix Blended Fifty 675	Crude Protein 50.0%	47.4%
Master Mix Blended Fifty 675	Crude Protein 50.0%	48.4%
Master Mix Blended Fifty 675	Crude Protein 50.0%	49.3%
Master Mix Blended Fifty 675	Calcium 4.5%	5.8%
Master Mix Blended Fifty 675	Calcium 4.5%	5.1%
Master Mix Blended Fifty 675	Calcium 4.5%	5.5%
Master Mix Blended Fifty 675	Calcium 4.5%	5.2%
Master Mix Blended Fifty 675	Calcium 4.5%	5.5%
Master Mix Blended Fifty 675	Crude Fiber 6.0%	6.7%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Master Mix 38% Dairy Concentrate 671	Calcium 4.0%	4.8%
Master Mix Big M Dairy Feed	Crude Fat 5.3%	3.1%
	Crude Fiber 12.0%	13.3%
Master Mix Cattle Blend Concentrate 764K	Calcium 3.0%	4.5%
Master Mix Cattle Blend Concentrate 764K		Contained Rice Hulls
Master Mix Cattle Blend Concentrate 764K	Calcium 3.0%	3.7%
Master Mix Cattle Blend Concentrate 764K	Calcium 3.0%	3.8%
Master Mix Cattle Blend Concentrate 764L	Calcium 3.0%	3.8%
Master Mix Cattle Blend Concentrate 764L	Calcium 3.0%	3.9%
Master Mix Cattle Blend Concentrate 764L	Crude Protein 32.0%	30.8%
Master Mix Cattle Blend Concentrate 764	Calcium 3.0%	4.4%
		Contained Rice Hulls
Master Mix Master Blend Concentrate 667	Calcium 3.2%	5.2%
Master Mix HQ Master Blend Concentrate	Crude Fiber 5.0%	5.7%
Master Mix HQ Master Blend Concentrate	Calcium 4.0%	4.8%
Master Mix Gro-Getter Concentrate 767M	Crude Fiber 10.0%	10.7%
Master Mix Gro-Getter Concentrate 767M	Crude Protein 40.0%	38.0%
Master Mix Pastur-Ate 881	Calcium 5.0%	5.8%
Master Mix Medicated Pig Bio 600 Conc. 878-64B	Arsanilic Acid 0.06%	0.07%
Master Mix Pig Grower Concentrate 859-01B	Calcium 4.0%	4.7%
Master Mix 40% Hog Pastur-Ate	Crude Protein 40.0%	35.8%
	Crude Fiber 7.0%	8.1%
Master Mix Hog Finisher Concentrate 889	Crude Fiber 6.0%	6.6%
Master Mix Hog Finisher Concentrate 889	Crude Fiber 6.0%	6.7%
Master Mix 35% Hog Concentrate	Crude Fiber 9.0%	10.0%
	Calcium 5.1%	5.8%
Master Mix Farro-Aid 180 (829-19D) Medicated	Furazolidone 0.0165%	0.0128%
Master Mix Medicated Pig - Ets 809-99A	Arsanilic Acid 0.01%	0.013%
Master Mix Dog Food	Crude Fat 7.0%	5.0%
Master Mix Sweet Bulk'N Flakes	Crude Fiber 18.0%	20.3%
Master Mix Sweet Bulk'N Flakes	Crude Fiber 18.0%	21.7%
Bulky - 28	Calcium 2.5%	4.5%
Citizens Milling Company, Somerset, Kentucky		
Cumberland 24% Dairy Feed	N.P.N. from Urea 8.3%	13.1%
Cumberland 24% Dairy Feed	Crude Protein 24.0%	21.7%
Clinton Corn Processing Company, Clinton, Iowa		
Dex-Mo-Lass	Sugar 45%	42.2%
Dex-Mo-Lass	Sugar 45%	43.1%
Clinton Hatchery, Clinton, Kentucky		
New Deal 44% Hog Supplement Medicated	Crude Fiber 6.0%	6.8%
New Deal 44% Hog Supplement Medicated	Crude Protein 44.0%	41.3%
	Crude Fiber 6.0%	6.7%
	3-Nitro-4 0.0125%	0.0092%
New Deal 44% Hog Supplement Medicated	3-Nitro-4 0.0125%	0.0414%
New Deal 44% Hog Supplement Medicated	3-Nitro-4 0.0125%	0.0093%
New Deal 44% Hog Supplement Medicated	3-Nitro-4 0.0125%	0.0093%
New Deal 44% Hog Supplement Medicated	3-Nitro-4 0.0125%	0.0085%
New Deal 44% Hog Supplement Medicated	3-Nitro-4 0.0125%	0.0092%
Clinton Milling Company, Clinton, Kentucky		
Masco 28% Turkey Starter	Crude Protein 28.0%	22.3%
Masco 42% Protein and Mineral Dairy Mixing Concentrate	Crude Fiber 7.0%	8.0%
Masco Swine Wormer Medicated	Piperazine 0.025%	0.35%
Masco 30% Pig & Sow Supplement	Crude Fiber 8.5%	9.2%
H.C. Cole Milling Company, Chester, Illinois		
Omega Winter Wheat Bran	Crude Fat 3.5%	2.8%
	Crude Fiber 10.5%	12.3%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Community Mills, Belton, Kentucky		
Brigance Egg Mash	Crude Protein 20.0%	18.7%
Johnson's 16% Dairy Feed	Crude Protein 16.0%	15.1%
Johnson's 16% Dairy Feed	Crude Protein 16.0%	14.4%
Brigance Pig Feed	Crude Protein 18.0%	16.4%
Brigance Hog Feed	Crude Protein 15.0%	13.4%
Crescent Roller Mills, Inc. Taylorsville, Kentucky		
Crescent Stock Feed	Crude Protein 14.0%	12.7%
Cooperative Mills, Inc., Cincinnati, Ohio		
Turkey Starter Medicated (A)	Amprolium 0.0125%	0.0086%
Turkey Starter Medicated (A)	Crude Protein 24.0%	20.6%
	Crude Fiber 4.0%	5.5%
	Amprolium 0.0125%	0.0045%
Turkey Developer (4N) Medicated	4-Nitro Acid 0.025%	0.033%
40% Poultry Supplement Medicated	Crude Protein 40.0%	35.3%
Starting and Growing Mash Medicated (TR)	Bithionol 0.05%	0.0075%
Starting and Growing Mash Medicated (TR)	Bithionol 0.05%	0.009%
Starting and Growing Mash Medicated (TR)	Bithionol 0.05%	0.0088%
Starting and Growing Mash Medicated (TR)	Bithionol 0.05%	0.0088%
Starting and Growing Mash Medicated (TR)	Bithionol 0.05%	0.007%
Starting and Growing Mash Medicated (TR)	Bithionol 0.05%	0.0087%
Cooperative Starting and Growing Mash Medicated (A)	Arsanilic Acid 0.006%	0.0081%
Super Laying Mash Medicated	Arsanilic Acid 0.0166%	0.0244%
Big Lay Medicated	Arsanilic Acid 0.01%	0.0126%
All Mash Laying Ration Medicated	Arsanilic Acid 0.01%	0.0133%
Cooperative Broiler Maker 425 (A+) Medicated	Amprolium 0.0125%	0.0105%
	Ethopabate 0.0004%	0.00018%
Cooperative Broiler Maker 425 (A+) Medicated	Amprolium 0.0125%	0.0103%
	Ethopabate 0.0004%	0.00018%
Cooperative Broiler Maker 425 (A+) Medicated	Amprolium 0.0125%	0.0123%
	Ethopabate 0.0004%	0.00022%
Cooperative Broiler Maker 425 (A+) Medicated	Amprolium 0.0125%	0.0112%
	Ethopabate 0.0004%	0.00018%
Cooperative Broiler Maker 425 (A+) Medicated	Amprolium 0.0125%	0.0127%
	Ethopabate 0.0004%	0.00016%
Super Blend "65"	Crude Protein 65.0%	64.0%
Super Blend "65"	Crude Protein 65.0%	61.1%
Super Blend "65"	Crude Protein 65.0%	64.4%
Super Blend "65"	Calcium 4.0%	5.7%
Pro-Blend "50"	N.P.N. from Urea 18.5%	21.2%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.012%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.012%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.012%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.012%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.0131%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.0142%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.0131%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.0135%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.013%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.0138%
Pig Developer Medicated	Arsanilic Acid 0.01%	0.0126%
Cooperative Pig Aid Medicated	Arsanilic Acid 0.01%	0.013%
Pig Aid Medicated	Crude Fat 4.0%	3.1%
Pig Aid Medicated	Crude Fat 4.0%	3.2%
Pig Aid Medicated	Crude Fat 4.0%	3.2%
Pig Aid Medicated	Crude Fat 4.0%	3.2%
Pig Aid Medicated	Crude Fat 4.0%	3.2%
Pig Aid Medicated	Crude Fat 4.0%	3.2%
37% Feed Block A	N.P.N. from Urea 11.90%	16.6%
	Crude Fiber 6.0%	6.8%
	Calcium 4.0%	4.6%
Crestwood Farmers Supply Center, Crestwood, Kentucky		
Crestwood 44% Dairy Concentrate	Calcium 1.5%	3.9%
Crestwood Milk Maker	Crude Protein 16.0%	11.5%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Dearborn Mills, Aurora, Indiana Dearborn 17% Cage Layer Ration C-P #2 Dearborn 18½% All Mash Starter & Grower Med.	Furazolidone 0.011% Nitrofurazone 0.0056%	0.007% 0.0043%
W.C. Dicken & Son, Mentor, Kentucky Sunny Grain Brand 20% Dairy Feed Sunny Grain Brand Pig & Sow Meal	Crude Fiber 9.0% Crude Protein 16.0%	10.0% 15.1%
Dinner Bell Dog Food Company, South Lyon, Michigan Miller's Stew For Dogs & Cats	Crude Protein 8.0%	7.3%
Dixie Mills Company, East St. Louis, Illinois Dixie Chick Starter Kurnels Medicated Dixie Chick Starter Kurnels Medicated Dixie Chick Starter Kurnels Medicated Dixie Chick Starter Kurnels Medicated Dixie Chick Starter Kurnels Medicated Dixie Sow Concentrate	Nitrofurazone 0.0055% Nitrofurazone 0.0055% Nitrofurazone 0.0055% Nitrofurazone 0.0055% Nitrofurazone 0.0055% Crude Protein 35.0%	0.00345% 0.00348% 0.00354% 0.00359% 0.00374% 34.3%
Doane Feed Products Company, Joplin, Missouri Doane's Hi-Mo-Lass	Crude Fiber 15.0%	15.6%
Dog Life Packing Company, Chicago, Illinois Dog Life Tasty Vittles	Crude Fat 6.0%	4.5%
Dyersburg Oil Mill Company, Dyersburg, Tennessee Star Brand 41% Cottonseed Meal	Crude Protein 41.0%	39.0%
Early & Daniel Company, Cincinnati, Ohio Tuxedo 36% Poultry Supplement Tuxedo Chick Starter Medicated Tuxedo Chick Starter #1 Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Starter & Grower Medicated Tuxedo Complete Layer Ration Tuxedo Complete Layer Ration Tuxedo Complete Layer Ration Tuxedo Complete Layer Ration Tuxedo Complete Layer Ration Tuxedo Medicated Pickup Bitty Bits Tuxedo Medicated Pickup Bitty Bits Tuxedo Medicated Pickup Bitty Bits Tuxedo Medicated Pickup Bitty Bits Tuxedo Medicated Pickup Bitty Bits Tuxedo 44% Dairy Supplement Tuxedo 44% Dairy Supplement Tuxedo 44% Dairy Supplement Tuxedo Pig Grower Medicated	Calcium 3.25% Amprolium 0.0125% Nitrofurazone 0.011% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Arsanilic Acid 0.01% Arsanilic Acid 0.01% Arsanilic Acid 0.01% Arsanilic Acid 0.01% Arsanilic Acid 0.01% Furazolidone 0.011% Furazolidone 0.011% Furazolidone 0.011% Furazolidone 0.011% Furazolidone 0.011% N.P.N. from Urea 22.0% Crude Protein 44.0% Crude Fiber 8.5% Arsanilic Acid 0.01%	5.3% 0.009% 0.0068% 0.0043% 0.0039% 0.0041% 0.0039% 0.0041% 0.00364% 0.00365% 0.00363% 0.00342% 0.00343% 0.0042% 0.0135% 0.0124% 0.012% 0.012% 0.013% 0.0073% 0.0076% 0.0075% 0.0073% 0.0077% 24.2% 42.6% 9.5% 0.0144%
John W. Eshelman & Sons, Lancaster, Pennsylvania Red Rose Complete Laying Ration	Crude Fiber 5.0%	5.7%
Famous Feed Mills, Nashville, Tennessee Famous 18% Complete Chick Starter & Grower Medicated Famous 18% Complete Chick Starter & Grower Medicated	Arsanilic Acid 0.0099% Arsanilic Acid 0.0099%	0.0128% 0.0127%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Famous 18% Complete Chick Starter & Grower Medicated	Arsanilic Acid 0.0099%	0.0136%
Famous 18% Complete Chick Starter & Grower Medicated	Arsanilic Acid 0.0099%	0.0136%
Famous 18% Complete Chick Starter & Grower Medicated	Arsanilic Acid 0.0099%	0.0128%
Famous 40% Layer Concentrate	Crude Protein 40.0%	38.5%
Famous 44% Dairy Supplement	Calcium 2.0%	5.0%
Golden Gain Pig & Hog Ration	Crude Fiber 6.0%	7.0%
Famous Dog Food	Crude Protein 25.0%	23.7%
41% Cottonseed Meal	Crude Fiber 14.0%	14.7%
41% Cottonseed Meal	Crude Fiber 14.0%	14.7%
Farm Bureau Milling Company, Hammond, Indiana Dairy Supplement 55.0%	Crude Protein 55.0%	53.7%
	Crude Fiber 6.0%	7.8%
Farmers Elevators, Inc., Owensboro, Kentucky Feeders Friend 16% Dairy	Crude Protein 16.0%	14.8%
Feeders Friend 40% Hog Supplement	Crude Protein 40.0%	37.2%
Feeders Friend Sow & Pig Concentrate	Crude Fiber 9.0%	10.6%
Feeders Friend 35% Hog Balancer	Crude Protein 35.0%	33.5%
Farm Service, Inc., Glasgow, Kentucky Master Made Pig Grower Medicated	Arsanilic Acid 0.01%	0.0048%
Master Made Pig Grower Medicated	Arsanilic Acid 0.01%	0.0042%
Master Made Pig Grower Medicated	Crude Protein 16.0%	14.7%
Master Made Pig Grower Medicated	Arsanilic Acid 0.01%	0.0043%
Master Made Pig Grower Medicated	Arsanilic Acid 0.01%	0.0057%
Master Made Pig Grower Medicated	Crude Protein 16.0%	15.0%
Fields Packing Company, Owensboro, Kentucky Fields 60% Digester Tankage	Crude Fat 10.0%	8.9%
	Crude Fiber 1.0%	2.3%
Fischer Packing Company, Louisville, Kentucky 50% Meat Scraps	Crude Protein 50.0%	48.7%
50% Meat Scraps	Crude Protein 50.0%	49.3%
Henry Fruechtenicht Company, Louisville, Kentucky Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0045%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0041%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0042%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0052%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.004%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0039%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0036%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0035%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0035%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0036%
Producer 20% Starter & Grower Mash Medicated	Bifuran 0.0063%	0.0042%
Producer 44% Dairy Concentrate	Crude Protein 44.0%	43.2%
Producer 44% Dairy Concentrate	Crude Protein 44.0%	40.0%
Producer 44% Dairy Concentrate	Crude Protein 44.0%	39.4%
Producer 44% Dairy Concentrate	N.P.N. from Urea 21.0%	23.7%
Producer Dairy Balancer	Crude Protein 41.0%	39.5%
Producer 24% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 16% Special Dairy Feed		Contained
Producer 16% Special Dairy Feed		Rice Hulls
Producer 44% Beef Supplement	N.P.N. from Urea 21.0%	23.8%
Producer 44% Beef Supplement	N.P.N. from Urea 18.34%	23.2%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.0128%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.022%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.0074%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.0066%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.0079%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.0072%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.0075%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.013%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.013%
Producer Pig Grower Medicated	Arsanilic Acid 0.01%	0.013%
Producer Piglets Medicated	Arsanilic Acid 0.01%	0.0123%
Producer Pig Developer Medicated	Crude Fiber 4.0%	8.4%
Producer Dog Food	Crude Protein 25.0%	22.0%
Producer Rabbit Ration		Contained
		Mixed
		Screenings
Folsomdale Milling Company, Boaz, Kentucky Folsomdale Check-R-Mix 16% Dairy Feed	Crude Fiber 8.0%	9.6%
Garrard Mills, Lancaster, Kentucky Garrard 24% Dairy Feed	Crude Protein 24.0%	20.8%
Garrard 24% Dairy Feed	Crude Protein 24.0%	21.5%
Garrard 24% Dairy Feed	Crude Protein 24.0%	20.3%
Garrard 24% Dairy Feed	Crude Protein 24.0%	22.9%
Garrard 24% Dairy Feed	N.P.N. from Urea 7.80%	10.3%
Germantown Milling Company, Germantown, Kentucky Mixed Feed	Crude Fiber 6.0%	6.8%
Gilster Milling Company, Chester, Illinois Gilster Wheat Shorts	Crude Protein 16.0%	15.1%
Gilster Wheat Bran	Crude Fiber 11.0%	11.8%
Griffin Fertilizer Company, Butler, Kentucky Tankage & Poultry By-Product Meal	Crude Fiber 2.0%	3.3%
Tankage & Poultry By-Product Meal	Crude Protein 55.0%	51.1%
Tankage & Poultry By-Product Meal	Crude Fiber 2.0%	3.5%
50% Meat Scraps	Crude Fiber 2.0%	3.3%
Gwinn Brothers and Company, Huntington, West Va. Gwinn's Merit Starter & Grower Ration Medicated	Furazolidone 0.0055%	0.0042%
Milk Producer 24% Dairy	N.P.N. from Urea 8.0%	9.8%
Gwinn's Sweet Acre 24% Dairy Feed	N.P.N. from Urea 8.0%	10.7%
Earl Hale & Son, Jasper, Ohio Kenny's Horse Feed		Contained
		Unground
		Weed Seeds
Hales & Hunter, Chicago, Illinois Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0046%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0052%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0052%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0053%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0053%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0061%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0052%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.005%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.0053%
Red Comb Chick Starter Medicated	Amprolium 0.008%	0.005%
Red Comb Complete Grower Medicated	Amprolium 0.008%	0.002%
Red Comb Complete Layer 16 Medicated	Arsanilic Acid 0.01%	0.0067%
Red Comb Complete Layer 16 Medicated	Arsanilic Acid 0.01%	0.0079%
Red Comb Medicated Respir-Aid	Furazolidone 0.011%	0.0065%
Red Comb Medicated Respir-Aid	Crude Fat 6.0%	3.7%
Pioneer 32% Milk Maker	Calcium 3.5%	4.7%
Pioneer 32% Milk Maker	Crude Protein 32.0%	27.7%
Pioneer 32% Milk Maker	Crude Protein 32.0%	30.6%
Pioneer Hog Balancer Medicated	Arsanilic Acid 0.05%	0.0388%
	Crude Protein 36.0%	34.4%
Pioneer Hog Balancer Medicated	Crude Protein 36.0%	35.0%
Pioneer Pig Grower Concentrate Medicated	Arsanilic Acid 0.045%	0.035%
Pioneer Pig Grower Concentrate Medicated	Arsanilic Acid 0.045%	0.058%
Pioneer Pig Grower Concentrate Medicated	Arsanilic Acid 0.045%	0.057%
Pioneer Pig Grower Concentrate Medicated	Arsanilic Acid 0.045%	0.06%
Pioneer Pig Grower Concentrate Medicated	Arsanilic Acid 0.045%	0.06%
Pioneer Pig Grower Concentrate Medicated	Arsanilic Acid 0.045%	0.058%
Lucky Dog Food Meal	Crude Protein 25.0%	24.2%
Hardy Brothers Mill, Walton, Kentucky		
17% Hi-Calorie All Mash Layer	Crude Fat 4.5%	3.7%
17% Hi-Calorie All Mash Layer	Crude Fat 4.5%	3.7%
Master 16% Dairy	Crude Protein 16.0%	14.0%
Harvest Brand, Inc., Pittsburg, Kansas		
Dog-Ade Dog Feed	Crude Fat 8.0%	6.3%
Stockade Mineral All Purpose Block	Salt 30.0%	18.8%
Dr. Heinz Company, Inc., Bloomingburg, Ohio		
Heinz Nu-Way Hog Finisher Concentrate	Calcium 3.5%	4.2%
Home Milling Company, Greenville, Kentucky		
Happy Home 24% Dairy Feed	Crude Fiber 8.0%	10.4%
Happy Home 16% Sweet Dairy Feed		Contained Cottonseed Hulls
Happy Home 16% Sweet Dairy Feed		Contained Unground Weed Seeds & Cotton- seed Hulls
Champion 40% Hog Supplement	Crude Protein 40.0%	38.2%
Happy Home 85% Grain Horse & Mule Feed	Crude Protein 9.0%	8.3%
Huff & Puff Pet Foods, Inc., Reedville, Virginia		
Huff & Puff Cat Food	Crude Fat 2.0%	8.1%
Illinois Soy Products Company, Springfield, Illinois		
Illimi 41% Soybean Meal	Crude Fiber 7.0%	8.0%
Inland Products Company, Inc., Columbus, Ohio		
Inland 50% Meat & Bone Scraps		Contained Feather Meal
Kentucky Animal By-Products Company, Russellville, Kentucky		
Blue Ribbon 50% Meat & Bone Meal	Crude Protein 50.0%	47.4%
Knifley Feed & Supply, Elkhorn, Kentucky		
Elk Hominy Feed	Crude Fiber 6.0%	9.2%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Laswell Milling Company, Brodhead, Kentucky Laswell's Cattle Feed	Crude Protein 12.0%	11.2% Contained corn shuck
Lee Dog Food Company, LaGrange, Kentucky Cliff's Horse Meat 10% Soya Grits Added	Crude Protein 14.0% Crude Fat 3.0%	12.5% 11.5%
Lewisburg Roller Mills, Lewisburg, Kentucky Economy 16% Dairy Feed	N.P.N. from Urea 5.24%	8.0%
Lexington Roller Mills, Inc., Lexington, Kentucky Thoroughbred Hog Supplement 40% Thoroughbred Wheat Shorts	Calcium 2.0% Crude Fiber 7.0%	4.7% 8.0%
Louisa Supply Company, Louisa, Kentucky Louisa Hominy Feed	Crude Fat 9.0%	3.4%
Mayfield Sweet Feed Mill, Mayfield, Kentucky State Leader 40% Hog Supplement State Leader Dog Food	Calcium 3.0% Crude Protein 24.0%	6.6% 21.6%
Metzger Brothers, Paducah, Kentucky Tankage with Bone	Crude Protein 43.0%	39.6%
Midget Mills, Somerset, Kentucky White Rose 24% Dairy Feed White Rose 24% Dairy Feed White Rose 24% Dairy Feed	Crude Protein 24.0% Crude Protein 24.0% N.P.N. from Urea 8.3%	22.6% 21.0% 11.1%
Nashville Cotton Oil Mill Corporation, Nashville, Tennessee 41% Cottonseed Meal	Crude Protein 41.0% Crude Fiber 14.0%	38.2% 14.6%
National Oats Company, East St. Louis, Illinois Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Chick Starter Medicated Corno Shoaat Grower 14% Medicated Corno Hog Supplement Corno Hog Supplement Corno Hog Supplement Corno Dog Food Corno Dog Food Corno Dog Food Corno Dog Food Corno 39% Protein Block Medicated	Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Nitrofurazone 0.0056% Arsanilic Acid 0.01% Crude Protein 40.0% Crude Protein 40.0% Crude Protein 40.0% Crude Protein 24.0% Crude Protein 24.0% Crude Protein 24.0% N.P.N. from Urea 13.1%	0.0034% 0.031% 0.0108% 0.0099% 0.0106% 0.0088% 0.0133% 38.2% 39.2% 38.6% 20.0% 23.2% 13.6% 15.2%
The New Era Milling Company, Arkansas City, Kansas Polar Bear Wheat Shorts with Screenings Polar Bear Wheat Shorts with Screenings	Crude Fiber 6.0% Crude Fiber 6.0%	6.9% 7.0%
Charles Nunn & Sons Milling Company, Evansville, Indiana Nunn-Better Pig Junior Jets, Medicated	Arsanilic Acid 0.01%	0.013%
Nutrena Mills, Minneapolis, Minnesota Nutrena Sweetflow 41% Dairy Concentrate Nutrena Hog Supplement (A) Medicated Nutrena Hog Supplement (A) Medicated Nutrena Hog Supplement (A) Medicated Nutrena Hog Supplement (A) Medicated	N.P.N. from Urea 13.66% Arsanilic Acid 0.045% Arsanilic Acid 0.045% Arsanilic Acid 0.045% Arsanilic Acid 0.045%	16.1% 0.0305% 0.032% 0.032% 0.0315%
Orleans Canning Company, Chicago, Illinois Orlean Horse Meat, Meat By-Product and Boneless Beef for Dogs	Crude Protein 13.0%	12.0%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Orleans Dog Candy Company, Chicago, Illinois Lolli-Pups	Crude Protein 25.0%	23.9%
Owensboro Grain Company, Inc., Owensboro, Kentucky Ograco 44% Soybean Meal Ograco 44% Soybean Meal	Crude Fiber 7.0% Crude Fiber 7.0% Crude Protein 44.0%	7.7% 9.8% 41.8%
Owensboro Milling Company, Owensboro, Kentucky Tru-Test All Purpose Mash Tru-Test 32% Beef Supplement Tru-Test 35% Hog Supplement Tru-Test Dog Food Wheat Mill Run & Screenings Wheat Mill Run & Screenings	Crude Protein 17.5% Calcium 2.5% Crude Fiber 7.5% Crude Protein 26.0% Crude Fiber 7.0% Crude Fiber 7.0%	16.7% 3.7% 8.2% 24.3% 8.1% 8.8%
Pan American Mills, Bowling Green, Kentucky Green Valley 35% Hog Concentrate Medicated Booster 18% Sow & Pig Medicated Booster 18% Sow & Pig Medicated Pan American 14% Hog Developer Medicated	Calcium 3.75% Arsanilic Acid 0.01% Arsanilic Acid 0.01% Arsanilic Acid 0.008%	5.4% 0.0026% 0.0047% 0.0063%
Perk Dog Food Company, Chicago, Illinois Perk Horse Meat with Ground Bone Perk Horse Meat with Ground Bone Perk Horse Meat with Ground Bone	Crude Protein 15% Crude Fat 7.5% Crude Fat 7.5%	14.1% 19.5% 17.7%
Pet Food Packers, Washington C.H., Ohio Mac Dog and Puppy Medicated Worming Food	Crude Protein 10.0%	8.3%
The Pillsbury Mills, Minneapolis, Minnesota Pillsbury's Best Dairy Mixer 44 Pillsbury's Best Dairy Mixer 44 Pillsbury's Best Dairy Mixer 44 Pillsbury's Best 32% Dairy Supplement Pillsbury's Best Hog Concentrate 38% Al Med. Pillsbury's Best Hog Concentrate 38% Al Med. Pillsbury's Best Hog Concentrate 38% Al Med. Pillsbury's Best Hog Concentrate 38% Al Med. Pillsbury's Best Hog Balancer Medicated Pillsbury's Best Hog Concentrate 38% Al Med. Pillsbury's Best Pig & Hog Wormer	Calcium 3.50% Calcium 3.50% Crude Protein 44.0% Calcium 2.75% Arsanilic Acid 0.05% Calcium 3.0% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Calcium 3.0% Calcium 4.0% Crude Protein 38.0% Piperazine 0.24%	5.4% 5.9% 42.6% 4.3% 0.039% 4.6% 0.038% 0.038% 0.038% 4.6% 6.0% 36.0% 0.16%
Planters Mill, Tunica, Mississippi 41% Cottonseed Meal	Crude Protein 41.0%	38.2%
Portland Feed Mills, Portland, Tennessee Leader Dairy & Beef Mixer	Crude Protein 50.0% Calcium 4.75%	48.5% 6.8%
Princeton Mills, Princeton, Kentucky Check-R-Mix Laying Feed (All Mash SE)	Crude Protein 16.0%	15.3%
Quaker Oats Company, Chicago, Illinois Ful-O-Pep Laying Mash Ful-O-Pep Mix 40% Dairy Concentrate Ful-O-Pep Cattleizer Dairy Concentrate Ful-O-Pep Gro-Pork 45 Supplement KL Medicated Ful-O-Pep Gro-Pork 45 Supplement KL Medicated Ful-O-Pep Gro-Pork 45 Supplement KL Medicated Ful-O-Pep Gro-Pork 45 Supplement KL Medicated Ful-O-Pep Gro-Pork 45 Supplement KL Medicated Ful-O-Pep Gro-Pork 45 Supplement KL Medicated Ful-O-Pep Hog Supplement	Calcium 3.5% Crude Fiber 10.0% N.P.N. from Urea 10.0% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Arsanilic Acid 0.05% Calcium 4.0%	5.0% 11.0% 12.3% 0.024% 0.026% 0.025% 0.036% 0.036% 0.060% 4.6%
Ralston Purina Company, St. Louis, Missouri Purina Turkey Startena FZ #2 Medicated	Furazolidone 0.011%	0.0091%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Purina Eggena CF Special Custom Mix	Furazolidone 0.0055%	0.0032%
Purina Eggena CF Special Custom Mix	Furazolidone 0.0055%	0.0037%
Purina Eggena CF Special Custom Mix	Furazolidone 0.0055%	0.0038%
Purina Eggena CF Special Custom Mix	Furazolidone 0.0055%	0.0035%
Purina Eggena CF Special Custom Mix	Furazolidone 0.0055%	0.0029%
Purina Layena Checkers	Calcium 2.8%	4.7%
Purina Commercial Pullet Developer (F) ZO	Zoalene 0.0083%	0.0069%
Purina Commercial Pullet Developer (F) ZO	Zoalene 0.0083%	0.0068%
Purina Commercial Pullet Developer (F) ZO	Zoalene 0.0083%	0.0066%
Purina Commercial Pullet Developer (F) ZO	Zoalene 0.0083%	0.0065%
Purina Cow Chow Concentrate 50%	Crude Fiber 10.0%	11.7%
Purina Cow Chow Concentrate 50%	Calcium 5.0%	5.6%
Purina Dairy Concentrate 32%	Crude Protein 32.0%	31.1%
Purina Dairy Concentrate 32%	N.P.N. from Urea 16.0%	19.1%
Purina Dairy Chow 1-16%		Contained Oat Hulls
Purina Special Steer Fatena L5	Crude Protein 50.0%	48.7%
Purina Special Steer Fatena H3	Calcium 2.0%	2.7%
Purina Hog Chow	Calcium 3.0%	4.7%
Purina Hog Chow Medicated	Calcium 4.0%	4.6%
	Salt 3.0%	0.25%
Purina Hog Chow 3N Medicated	Crude Protein 36.0%	35.1%
	Calcium 4.0%	5.3%
Purina Hog Chow 3N Medicated	Crude Protein 36.0%	35.0%
Purina Hog Chow 3N Medicated	3-Nitro-4 0.025%	0.0154%
Purina Hog Chow 3N Medicated	3-Nitro-4 0.025%	0.0157%
Purina Hog Chow 3N Medicated	Calcium 3.0%	4.6%
Purina Hog Chow 3N Medicated	Calcium 3.0%	5.5%
Purina Hog Chow 3N Medicated	Calcium 3.0%	4.7%
Purina Pig Startena Medicated Checkers	3-Nitro-4 0.005%	0.0027%
Purina Pig Growena L Medicated	3-Nitro-4 0.005%	0.0037%
Purina Pig Wormer Pellets	Piperazine Phosphate Monohydrate 0.59%	0.354%
Purina Pig Wormer Pellets	Piperazine 0.25%	0.188%
Purina Pig Wormer Pellets	Piperazine 0.25%	0.193%
Purina Pig Wormer Pellets	Piperazine 0.25%	0.162%
Purina Pig Wormer Pellets	Piperazine 0.25%	0.190%
Riteway Milling Company, Otway, Ohio		
Starter & Grower Mash	Crude Protein 16.0%	15.4%
Riteway's Egg-0-Day	Crude Protein 20.0%	15.9%
Riteway's 95% Grain Horse & Mule Feed	Crude Fiber 5.0%	16.0%
		Only About 50% Grain
Robbins Brothers, Auburn, Kentucky		
Hominy Feed	Crude Fat 7.0%	5.2%
Hominy Feed	Crude Protein 10.0%	8.5%
	Crude Fat 7.0%	5.1%
Hominy Feed	Crude Protein 10.0%	7.9%
Hominy Feed	Crude Fat 7.0%	3.7%
Hominy Feed	Crude Protein 10.0%	8.4%
Hominy Feed	Crude Protein 10.0%	8.3%
	Crude Fat 7.0%	4.6%
Hominy Feed	Crude Protein 10.0%	7.7%
	Crude Fat 7.0%	4.0%
Roberts Brothers, Burlington, Kentucky		
Unique 18% Sow & Pig Ration	Crude Protein 18.0%	17.3%
Allen Robertson & Company, Inc., Louisville, Ky.		
Farm-R-Choice 52% Top-Dresser Concentrate	Crude Protein 52.0%	50.3%
	Crude Fiber 6.5%	8.0%
Farm-R-Choice 38% Grower-Layer Concentrate	Calcium 3.25%	5.95%
Farm-R-Choice 40% Hog Concentrate Medicated	Crude Fiber 5.0%	6.4%
	Calcium 5.0%	7.4%
Farm-R-Choice 40% Hog Concentrate Medicated	Salt 2.5%	4.0%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Robinson Milling Company, Somerset, Kentucky Sun-Ray 35% Layer Concentrate	Crude Protein 35.0%	32.9%
	Crude Fiber 7.5%	8.6%
	Calcium 4.9%	5.8%
Sun-Ray 35% Layer Concentrate	N.P.N. from Urea 15.72%	18.4%
Sun-Ray 44% Dairy Concentrate	Crude Protein 44.0%	43.2%
Sun-Ray 44% Dairy Concentrate	Crude Fiber 6.0%	7.8%
	Crude Protein 44.0%	42.4%
Sun-Ray 44% Dairy Concentrate	Crude Fiber 6.0%	7.5%
	Crude Protein 44.0%	42.9%
Sun-Ray 44% Dairy Concentrate	Crude Fiber 6.0%	7.0%
Sun-Ray 44% Dairy Concentrate	Crude Protein 16.0%	14.8%
Jersey 16% Mixed Feed	Crude Protein 16.0%	15.1%
Jersey 16% Mixed Feed	Crude Protein 16.0%	14.6%
Jersey 16% Mixed Feed	Crude Protein 40.0%	38.9%
Sun-Ray 40% Booster Hog Supplement Medicated	Arsanilic Acid 0.05%	0.06%
	Crude Fiber 7.0%	8.7%
Sun-Ray 40% Hog Supplement	Arsanilic Acid 0.01%	0.013%
Sun-Ray Pig & Hog Grower Medicated		
Ross Feed Company, Murray, Kentucky Standard 40% Hog Supplement	Calcium 1.25%	3.0%
Salyersville Wholesale, Inc., Salyersville, Kentucky Quick Lay Mash	Crude Fiber 6.0%	6.8%
Sandusky Brothers, Harrodsburg, Kentucky Hominy Feed	Crude Fat 6.0%	4.4%
Hominy Feed	Crude Fat 6.0%	4.4%
Mixed Feed	Crude Fiber 8.0%	9.4%
Charles H. Schenk & Son, Vincennes, Indiana Schenk's Dehydrated Alfalfa Meal	Crude Fiber 27.0%	29.8%
Scott County Milling Company, Sikeston, Missouri Gristo Chick Grower Medicated	Bifuran 0.0063%	0.0029%
Joseph E. Seagram & Sons, Inc., New York, New York Seagram's Corn Distillers Dried Solubles	Crude Fiber 5.0%	6.0%
Security Mills, Inc., Knoxville, Tennessee Security Special 16% Dairy Feed	Crude Fiber 7.5%	9.4%
Southern States Cooperative, Richmond, Virginia 37% Feed Block "A"	Crude Fiber 6.0%	6.9%
Southern States Hopkinsville Cooperative, Hopkinsville, Kentucky Profit Maker Ground Ear Corn	Crude Fiber 8.0%	8.6%
Ground Barley	Crude Fiber 6.0%	6.9%
Southern States Leitchfield Cooperative, Leitchfield, Kentucky Profit Maker 16% All Mash Laying Medicated	Arsanilic Acid 0.008%	0.0111%
Spem-Well Feed Company, Winchester, Kentucky Newco Layer Ration	Crude Fiber 6.0%	9.3%
Newco Feeds 24% Dairy	N.P.N. from Urea 8.0%	10.0%
	Crude Fiber 10.0%	14.1%
	Crude Fiber 10.0%	13.2%
Newco Feeds 24% Dairy	N.P.N. from Urea 8.0%	13.0%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	14.8%
	N.P.N. from Urea 8.0%	10.6%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	14.0%
	Crude Fiber 10.0%	12.5%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	12.6%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	12.3%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	12.3%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	13.2%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Newco Feeds 24% Dairy	N.P.N. from Urea 8.0%	9.8%
Newco Feeds 24% Dairy	N.P.N. from Urea 8.0%	10.8%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	11.5%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	14.0%
Newco Feeds 24% Dairy	N.P.N. from Urea 8.0%	10.1%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	12.2%
Newco Feeds 24% Dairy	Crude Fiber 10.0%	14.2%
Newco Feeds 24% Dairy	N.P.N. from Urea 8.0%	9.8%
Newco Feeds 16% Dairy Feed	N.P.N. from Urea 5.3%	8.1%
Newco Feeds 16% Dairy Feed	N.P.N. from Urea 5.3%	8.7%
Newco Feeds 16% Dairy Feed	N.P.N. from Urea 5.3%	7.7%
Newco Feeds 16% Dairy Feed	N.P.N. from Urea 5.3%	7.9%
Newco 40% Hog Supplement	Crude Protein 40.0%	37.1%
Newco 18% Pig & Sow Feed	Crude Fiber 6.0%	7.3%
Stewart's Feed Mill, Flat Lick, Kentucky		
Stewart's Best Hog Fattener	Crude Fiber 3.0%	5.0%
Stewart's Best Hog Fattener	Crude Fiber 3.0%	5.3%
Strongheart Packing Company, Chicago, Illinois		
Strongheart Dog Food	Crude Protein 10.0%	9.0%
Supreme Feed Mills, Glasgow, Kentucky		
Supreme 36% Poultry Concentrate	Crude Fiber 6.0%	7.6%
Supreme 36% Poultry Concentrate	Crude Fiber 6.0%	8.1%
Supreme 36% Poultry Concentrate	Crude Protein 36.0%	33.1%
	Crude Fiber 6.0%	8.4%
Supreme 50% Dairy Supplement	Crude Protein 50.0%	48.6%
Supreme 50% Dairy Supplement	Crude Protein 50.0%	46.0%
Supreme 45% Dairy Concentrate	Crude Protein 45.0%	44.1%
Premo 40% Hog Supplement	Crude Fiber 7.0%	8.0%
D.B. Sutherland & Sons, Bloomfield, Kentucky		
Kentucky Star Special 24% Dairy Feed	Crude Protein 24.0%	20.2%
Kentucky Star Special 24% Dairy Feed	Crude Protein 24.0%	18.4%
Kentucky Star Special 24% Dairy Feed	N.P.N. from Urea 6.3%	9.0%
Kentucky Star Special 16% Dairy Feed	N.P.N. from Urea 5.24%	7.5%
Kentucky Star Farm Feed	Crude Fiber 6.0%	7.0%
Kentucky Star Farm Feed	Crude Fiber 6.0%	7.2%
Kentucky Star Farm Feed	Crude Fiber 6.0%	6.9%
Kentucky Kernel Hominy Feed	Crude Fat 7.0%	6.3%
The Thorobred Company, Inc., Waynesville, Ohio		
Thorobred All Beef Dog Food	Crude Fat 6.0%	10.9%
Thorobred All Beef Dog Food	Crude Fat 6.0%	14.5%
Thorobred Beef With Gravy Dog Food	Crude Fat 6.0%	9.2%
Thorobred Chicken Parts Dog Food	Crude Fat 6.0%	15.2%
Thurmond's Coal & Feed Company, Murray, Kentucky		
Thurmond's Hog Developer	Crude Protein 15.0%	13.9%
Union County Grain Company, Union City, Tennessee		
16% Dairy Feed	Salt 1.0%	2.0%
Warner's Farm Supply, Somerset, Kentucky		
Check-R-Mix 16% Dairy Feed MS	Crude Protein 16.0%	14.0%
Check-R-Mix 16% Dairy Feed MS	Crude Fiber 8.0%	9.1%
Woolcott Flour Mills, Inc., Lexington, Kentucky		
Sun-Ray 40% Hog Supplement	Calcium 4.0%	4.9%
Sun-Ray 40% Hog Supplement	Calcium 4.0%	4.8%

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