


Regulatory Bulletin 317

2011 COMMERCIAL FEEDS IN KENTUCKY



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KENTUCKY COMMERCIAL FEED LAW

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The data presented in this publication is a required annual report of activities of the feed regulatory program. The report includes sample analyses and tonnage reports from the 2011 calendar year. The intent of this information is to provide those interested in feed products distributed in Kentucky with activities and information that can serve as an advisory tool.

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Introduction

The commercial feed law in Kentucky was first enacted in 1906 and was last updated in 1972. This feed law provides protection for the state's livestock, poultry, and pet owners by regulating all feed materials offered for sale or for mixing into a feed. However, whole and unprocessed grain, raw meat, hay, straw, stover, silage, cobs, husks, and hulls when unground and not mixed with other materials are exempt. Familiar products regulated include all types of pet foods, livestock minerals, complete animal and poultry feeds (bagged or bulk), protein or mineral blocks, supplements, feed ingredients, and some specialty materials such as drug premixes, vitamin and mineral supplements, liquid feeds, pet supplements, pet treats, and other specialized pet foods.

Revisions in laws and regulations have added additional requirements over the years. These revisions are primarily in response to more varied livestock feeding practices, changes in feed manufacturing technology, and an increased number of feed ingredients. These revisions ensure safe and effective use of drugs, and authority to inspect mills for compliance with good manufacturing practices (GMP's). Any drug and feed additive use must conform to Food & Drug Administration (FDA) regulations. A major aspect is to prevent unsafe residues in human food that may result from misused or contaminated feed. Several provisions are aimed at keeping poisonous and deleterious substances from being distributed in feeds.

Information in this report will inform the feed purchaser, provide a more comfortable atmosphere for fair and equitable competition, and assist in assuring the safety of animal and human food. Registration of all feeds

before distribution is required to ensure that correct label information is provided to the purchaser. More than 1,000 new product labels were reviewed this past year for guaranteed analysis, ingredient listings, and feeding directions for the intended animals or pets. Medicated feed labels were reviewed for approved drug usage and dosage, statement of drug purpose, and any required warning, caution, or special feeding instructions. Misleading and unsubstantiated information or claims are prohibited. Approximately 19,000 different commercial feeds and pet foods are currently registered for distribution by 1185 feed companies. There are approximately 240 manufacturing facilities located in Kentucky that serve the feed and pet food industry with complete feeds, feed ingredients, or distribute their own private label products.

Inspection and Sampling

Tables 1, 2 and 3 list the number of official samples obtained by field inspectors of feed ingredients, complete feeds & supplements/premixes, and specialty feeds, respectively, the past three years. The analyzed samples of specialty feeds have increased, and the complete feeds have remained about the same with some decline in ingredients.

Table 1. Number of feed ingredients sampled.

Type	2011	2010	2009
Alfalfa Products	2	2	0
Animal Products	28	33	28
Barley Products	1	6	8
Corn Products	119	161	141
Cottonseed Products	5	10	8
Distillers Products	88	63	70
Mineral Ingredients	14	20	8
Molasses Products	2	3	4
Oat Products	3	6	9
Rice Products	7	8	0
Soybean Products	143	154	165
Wheat Products	15	9	14
Other	1	2	9
Total	428	477	464

Feed Mill Inspections

An important method to maintain high quality and safe feeds for animals is to have a comprehensive inspection program. The medicated feed mill program currently has two classifications: (1) mills that mix Category II Type A drug materials into feed must be licensed with FDA; and (2) mills that mix drugs commonly exempt do not require an FDA license. Most Kentucky feed mills mix only exempt drugs. However, all feed mills must comply with good manufacturing practices (GMP's) which are assessed as part of a very comprehensive inspection program. The purpose of these inspections is to ensure several safe feed practices are followed: (1) approved drug levels are used, (2) proper mixing procedures are followed, (3) feed ingredients are monitored, (4) good record keeping is followed, (5) good housekeeping protocols are followed, and (6) a recall plan is in place.

BSE Rule Inspection

The Division participated in an inspection program that conducted 75 inspections of feed dealers and manufacturers following FDA guidelines and rules to ensure compliance for prohibited use of ruminant proteins in feeds intended for other ruminant animals. These rules are in place to prevent the establishment and amplification of Bovine Spongiform Encephalopathy (BSE). Feed mills receiving prohibited animal protein materials must follow adequate procedures to prevent any chance of those materials getting into feeds for ruminants. All feeds that contain prohibited animal protein materials must carry the cautionary statement, "Do not feed to cattle or other ruminants."

Food Safety

Food (feed) safety has moved to the forefront of public concern. Animal "food" that is free of contaminants is an all important concern of feed manufacturers and regulatory officials due to potential impacts any type of

Table 2. Number of complete feeds and supplements/premixes sampled.

Species/Type	2011	2010	2009
Poultry	148	128	137
Beef	257	237	224
Dairy	50	48	59
Swine	104	115	119
Sheep	6	9	2
Rabbit	22	24	27
Calf	39	35	43
Horse	206	188	199
Goat	30	35	38
Scratch & Gamebird	37	39	33
Fish Food	8	9	12
Custom Mix	39	72	86
Liquid	2	1	4
Blocks	27	11	26
Minerals	154	162	170
Drugs	26	13	11
Vitamins	4	4	9
Microbials	2	1	3
Other	126	138	137
Total	1287	1269	1339

Table 3. Number of specialty feeds sampled.

Type	2011	2010	2009
Dry Dog Food	199	147	148
Soft-Moist Dog Foods	1	1	2
Canned Dog Foods	176	150	134
Dry Cat Foods	92	47	64
Canned Cat Foods	157	106	99
Specialty Dog & Cat Products	147	135	104
Specialty Pet Products	9	20	27
Aquarium Fish Foods	17	26	29
Specialty Bird Feeds	25	10	38
Total	823	642	645

contamination would have on the Kentucky livestock industry, and thus impact human food. The ultimate goal is to prevent any impacts. Feed industry personnel have recently become more involved with ingredient assessment and monitoring, defining ingredient storage conditions, maintaining clean storage and manufacturing facilities, increased record keeping, and having plans in place to remove

contaminated feed from distribution in case of an emergency situation. GMP inspections now cover these many aspects of feed handling, manufacturing and distribution.

Occurrences with animal or pet food that need attention may include abnormal feed color or odor, presence of a foreign material, animals refusing the feed, and sickness or death of animals. An investigation is warranted when any of these occur. We may seek information from local veterinarians, feed dealers, or feed manufacturers, and take samples of feed when these occur. Our continued emphasis on frequent inspections, regular sampling, laboratory analysis, label reviews, and GMP inspections support efforts to maintain food safety and minimize any adverse impact.

Analysis and Product Suitability

Analysis of nutrients and other components in feed samples taken by field inspectors are provided by the feed laboratory. The laboratory data is used to evaluate suitability of product labeling, feed quality, and absence of any contaminants or deleterious substances. Table 4 reports the number of various feed analyses conducted on samples during 2011 indicating increased analysis for some mineral components.

Feed Labeling

A feed label is the fundamental communication with the consumer; it provides purpose of the feed, directions for use, nutrient information, ingredient content, and special comments or warnings. Providing labeling assistance and guidance to product registrants and manufacturers has been beneficial in attaining high quality feeds and promoting food safety. A full-time registration specialist reviewed product labels for com-

pliance with applicable laws and regulations. The field inspectors assisted several manufacturers with labeling, resulting in more uniform and informative labels. The program has made spreadsheets available to assist in establishing label guarantees, and for estimating nutritional suitability of some custom mixed feeds. These services strengthen an excellent working relationship with the feed industry in Kentucky.

Financial Support

The feed regulatory program is supported by inspection fees of the commercial feeds sold in Kentucky, registration fees for small package items, and some support from General Assembly appropriated funds. The inspection fee of 35 cents per ton is paid on commercial feeds in packages of larger than 10 pounds. Distiller's wet grains, other distillers products of more than 75 percent moisture, whey and brewers wet grains distributed without further processing pay a fee of 5 cents per ton. Products sold exclusively in packages of 10 pounds or less pay an annual registration fee of \$50 per product. In 2011 the feed program collected a total of \$1,137,532 in inspection fees, registration fees and late payment penalties.

Tonnage Distributed

Table 5 summarizes the tons of Ingredients Distributed during the last three years. The term "exempt" represents ingredients sold to other feed manufacturers in Kentucky who pay the inspection fees. "Non-exempt" represents ingredients in which the reporting firm pays the inspection fee. Table 6 reports the tons of Complete Feeds and Supplements/Premixes Distributed during the last three years.

Table 4. Number of official feed analyses reported.

Analysis	2011	2010	2009	
Proximate	Crude Protein	2,356	2,148	2,202
	NPN Equivalent Protein (urea)	73	98	36
	Lysine	0	1	4
	Crude Fat	470	318	575
	Acid Hydrolysis Fat	463	379	586
	Crude Fiber	1,015	866	750
	Acid Detergent Fiber	142	162	150
	Sugar, Invert	0	0	0
	Ash	64	44	218
Minerals	Moisture	45	67	603
	Aluminum	0	0	0
	Calcium	1,961	1,694	1,634
	Cobalt	149	153	145
	Copper	1,264	855	837
	Fluorine	0	2	1
	Iodine	2	0	1
	Iron	703	345	362
	Magnesium	888	705	622
	Manganese	862	486	492
	Molybdenum	14	15	6
	Phosphorus	1,935	1,671	1,605
	Potassium	1,140	940	855
	Salt	864	840	921
	Selenium	225	243	127
	Sodium	654	427	329
Sulfur	1	0	3	
Zinc	1,287	928	958	
Vitamins	Vitamin A	335	342	353
	Vitamin D	0	3	3
	Vitamin E	0	0	2
Drugs	Amprolium	20	18	3
	Apramycin	1	0	1
	Bacitracin	11	3	9
	Carbadox	13	2	5
	Chlortetracycline	86	85	104
	Decoquinatate	15	17	1
	Lasolocid	33	47	1
	Lincomycin	0	2	1
	Monensin	55	61	52
	Oxytetracycline	4	6	11
	Penicillin	0	0	1
	Sulfamthazine	0	0	1
	Tylosin	7	10	7
	Virginiamycin	0	0	1
	Zoalene	0	0	0
Mycotoxins	Aflatoxin	171	349	198
	Fumonisin	135	304	180
	Vomitoxin	49	107	99
Other	L. Acidophilus Bacteria	1	0	2
	Lactic Acid Bacteria	0	0	0
	Urease Activity	0	0	1
	Yeast Count	0	0	2
	Ingredient Listing	28	33	32
	Net Weight	244	418	548
Total	17,785	15,194	15,640	

Table 5. Reported tons of ingredients distributed.

Ingredient	Exempt			Non-Exempt		
	2011	2010	2009	2011	2010	2009
Alfalfa Products	1,606	2,014	1,892	2,567	1,639	1,844
Animal Product	37,710	29,154	15,816	68,718	52,175	82,069
Barley Products	94	161	103	733	617	566
Beet Products	11,432	2,837	1,190	727	695	3,942
Brewers Dried Products	118	90	122	8,061	8,632	13,465
Brewers Wet Grains	0	0	0	2,814	96,042	7,031
Citrus Products	495	4,056	459	730	3,686	3,751
Corn Products	100,793	65,780	67,796	86,554	92,980	113,480
Cottonseed Products	9,144	11,411	13,373	9,758	6,477	4,436
Distillers Dried Grain	96,686	113,277	63,625	226,430	240,984	139,986
Distillers Stillage	0	0	0	250,362	152,161	329,036
Drugs	157	22	29	487	447	354
Fats & Oils	27,775	16,006	12,271	10,789	12,873	10,656
Grain Sorghum	1	0	0	61	14	0
Linseed & Flax	25	357	358	303	99	249
Marine Products	17	12	17	578	461	378
Milk Products	1,747	1,280	1,084	1,785	514	165
Minerals	19,184	23,769	25,318	65,617	69,721	73,606
Molasses Products	20,249	24,900	32,918	12,083	10,739	10,160
Oat Products	2,001	1,860	2,044	2,738	1,973	7,416
Peanut Products	5,806	3,596	3,818	1	32	277
Rice Products	13,003	11,793	11,357	7,602	6,616	3,306
Rye	418	0	0	164	88	46
Soybean Products	150,749	189,729	267,049	534,397	453,635	493,386
Urea & Other NPN	778	995	161	2,316	1,760	406
Vitamins	140	394	41	3,545	1,667	1,942
Wheat Products	56,946	58,241	51,218	17,384	21,118	35,018
Whey (Liquid)	0	0	0	6,649	12,032	11,318
Grain Sold & Milxed	84,807	88,974	109,222	0	0	0
Other	7,494	2,852	5,616	32,936	16,864	22,812
Total	649,375	653,560	686,897	1,356,889	1,266,741	1,371,101

Table 6. Reported tons of complete feeds and supplements/premixes distributed.

Type	Complete			Supplement/Premix		
	2011	2010	2009	2011	2010	2009
Chicken Starter Grower	6,499	6,659	9,570	414	416	918
Chicken Broiler	4,378	6,198	11,561	31	35	131
Chicken Layer Breeder	26,246	27,058	30,032	947	681	1,354
Turkey	1,611	2,327	2,185	50	15	7
Beef	198,352	138,821	137,651	36,894	38,304	37,522
Dairy	114,105	102,352	114,969	28,753	25,142	26,198
Swine	5,671	4,895	5,557	3,852	2,771	4,129
Sheep	2,825	2,667	3,234	340	329	412
Calf	7,159	7,986	9,051	0	0	0
Horse	84,301	83,571	101,464	0	0	0
Pet Food	187,935	180,340	315,767	0	0	0
Fish	939	1,311	1,321	0	0	0
Rabbit	4,414	2,380	3,798	0	0	0
Scratch Feed	4,560	4,423	8,809	0	0	0
Custom Mix	187,905	202,374	239,486	0	0	0
Other	94,208	51,727	63,794	0	0	0
Dried Molasses	0	0	0	138	40	1
Drug Premixes	0	0	0	789	685	2,423
Liquid	0	0	0	14,717	7,737	7,230
Microbial Products	0	0	0	93	63	25
Minerals	0	0	0	23,207	24,411	18,596
Vitamin Premix	0	0	0	1,037	3,104	2,090
Total	931,108	825,089	1,058,249	111,262	103,733	101,036

Report of Official Feed Samples Analyzed—2011

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
18 ACRES FEED STORE BEDFORD, KY	1	1	100%	7	7	100%	None
4 SEASONS MARKETING MANKATO MN	2	2	100%	16	16	100%	None
A LITTLE PET VET LLC FLEMINGTON, NJ	1	1	100%	5	5	100%	None
ABBOTT LABORATORIES/R BALDY, NORTH CHICAGO, IL	1	0	0%	10	8	80%	1 Calcium, Min 1 Phosphorus, Min
ABENGOA BIOENERGY OF INDIANA MT VERNON, IN	4	4	100%	20	20	100%	None
AC NUTRITION LP ARDMORE, OK	1	1	100%	9	8	89%	1 Copper
ADAIRVILLE FEED MILL ADAIRVILLE, KY	8	8	100%	41	41	100%	None
ADAIRVILLE FEED MILL #2/RVILLE ADAIRVILLE, KY	8	7	88%	48	46	96%	1 Calcium, Min 1 Phosphorus, Min
ADM (SOY PROCESSING) FRANKFORT, IN	1	1	100%	1	1	100%	None
ADM ALLIANCE NUTRITION HENDERSON, KY	28	18	64%	208	198	95%	6 Crude Protein 1 Calcium, Min 2 Zinc 1 Vitamin A
ADM ALLIANCE NUTRITION INC QUINCY, IL	19	18	95%	99	98	99%	1 Zinc
ADM CORN PROCESSING DIV PEORIA, IL	1	1	100%	3	3	100%	None
ADM CORN PROCESSING/J ARCHER DECATUR, IL	4	4	100%	14	14	100%	None
ADM MILLING/BEECH GROVE, BEECH GROVE, IN	1	1	100%	4	4	100%	None
ADM MILLING/MT VERNON, OVERLAND PARK, KS	1	1	100%	4	4	100%	None
ADM MILLING/ST LOUIS SHAWNEE MISSION, KS	1	1	100%	4	4	100%	None
ADM PROCESSING/MARY WALKER DECATUR, IL	2	2	100%	3	3	100%	None
AHC PRODUCTS & PACKAGING INC WINCHESTER, KY	2	1	50%	11	10	91%	1 Zinc
AKPHARMA INC PLEASANTVILLE, NJ	1	1	100%	6	6	100%	None
ALDI INC BATAVIA, IL	7	5	71%	76	74	97%	1 Crude Protein 1 Calcium, Min
ALLEN CO FARMERS SERVICE INC SCOTTSVILLE, KY	2	1	50%	13	10	77%	1 Potassium 2 Lasalocid
ALLTECH, INC. NICHOLASVILLE, KY	2	2	100%	6	6	100%	None
ALPHARMA LLC MADISON, NJ	3	3	100%	3	3	100%	None
ANDERSON FARM SERVICE LAWRENCEBURG, KY	1	1	100%	6	6	100%	None
ANDERSON SEED MENTOR, MN	1	1	100%	2	2	100%	None
ANHEUSER-BUSCH ST LOUIS, MO	1	1	100%	1	1	100%	None
ANTLER KING TROPHY PRODUCTS BLACK RIVER FALLS, WI	2	2	100%	16	16	100%	None
ARCHER DANIEL MIDLAND CO DECATUR, IL	3	3	100%	7	7	100%	None
ARMADA GRAIN CO ARMADA, MI	4	3	75%	41	40	98%	1 AH Fat
ASHLAND MILLING COMPANY INC ASHLAND, KY	4	4	100%	19	19	100%	None
ASSOC WHOL GROC/ANN THOMPSON KANSAS CITY, KS	7	5	71%	77	75	97%	2 Crude Protein
AUTHORITY PET FOOD CO PHOENIX, AZ	13	11	85%	130	128	98%	1 AH Fat 1 Sodium
AVENTINE RENEWABLE ENERGY INC PEKIN, IL	2	2	100%	6	6	100%	None
AZTECA MILLING LP HENDERSON, KY	3	1	33%	18	16	89%	2 Crude Fiber, Max
BAGDAD ROLLER MILLS BAGDAD, KY	20	20	100%	106	106	100%	None
BAKERY FEEDS INC HENDERSON, KY	7	6	86%	39	38	97%	1 Crude Protein
BARDSTOWN MILLS BARDSTOWN, KY	7	7	100%	36	36	100%	None
BARK STIX RICHMOND, CA	1	0	0%	3	1	33%	1 Crude Protein 1 Crude Fat, Min
BCCH LLC MAUMELLE, AR+A53	1	0	0%	3	2	67%	1 Crude Protein
BELL ROCK GROWER INC SAN MARCOS, CA	2	2	100%	5	5	100%	None
BEST FRIENDS FOODS NATICK, MA	2	2	100%	20	20	100%	None
BI-COUNTY FARM BUREAU COOP FLORENCE, KY	2	1	50%	15	13	87%	1 Crude Protein 1 Crude Fiber, Max
BIG & J INDUSTRIES INC GRAND ISLAND, NE	1	1	100%	5	5	100%	None

Report of Official Feed Samples Analyzed—2011

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BIG BARN FARM STORE GARRISON, KY	2	2	100%	10	10	100%	None
BIL JAC FOODS INC MEDINA, OH	1	0	0%	11	10	91%	1 Sodium
BIO PLUS INC MADISON, GA	1	1	100%	4	4	100%	None
BIONICHE ANIMAL HEALTH USA INC ATHENS, GA	1	0	0%	10	9	90%	1 Crude Fat, Min
BLACK GOLD PET FOODS INC VIENNA, MO	3	1	33%	32	30	94%	2 Calcium, Min
BLUE BUFFALO CO LTD WILTON, CT	14	12	86%	132	130	98%	1 Crude Protein 1 AH Fat
BLUE DOG BAKERY SEATTLE, WA	2	2	100%	5	5	100%	None
BLUEGRASS AG DISTRIBUTORS LANCASTER, KY	8	8	100%	38	38	100%	None
BLUEGRASS EQUINE PRODUCTS INC LEXINGTON, KY	1	1	100%	4	4	100%	None
BLUEGRASS FEED & SUPPLY, HUSTONVILLE, KY	1	1	100%	5	5	100%	None
BLUEGRASS SEED BARDSTOWN, KY	6	4	67%	28	25	89%	2 Copper 1 Zinc
BOMAC VETS PLUS INC KNAPP, WI	1	1	100%	3	3	100%	None
BONE SCIENCE INC STILLWATER, OK	1	1	100%	6	6	100%	None
BOWLIN FEED INC ALBANY, KY	2	1	50%	14	13	93%	1 Phosphorus, Min
BREEDERS CHOICE PET FOODS INC IRWINDELE, CA	6	6	100%	65	65	100%	None
BRODHEAD FARM MART BRODHEAD, KY	2	1	50%	24	21	88%	1 Crude Protein 1 Calcium, Min 1 Copper
BROOKSVILLE FARM SUPPLY BROOKSVILLE, KY	3	2	67%	16	15	94%	1 Crude Fiber, Max
BRUMFIELD HAY & GRAIN LEXINGTON, KY	1	0	0%	5	3	60%	1 Calcium, Min 1 Phosphorus, Min
BUFFALO TRACE DISTILLERY INC FRANKFORT, KY	2	1	50%	8	7	88%	1 Crude Fat, Min
BUNGE NORTH AMERICA (EAST) LLC MARION, OH	1	1	100%	2	2	100%	None
BUNGE NORTH AMERICA (EAST) LLC MORRISTOWN, IN	7	7	100%	14	14	100%	None
BUNGE NORTH AMERICA INC CAIRO, IL	44	43	98%	54	53	98%	1 Crude Protein
BURKMANN FEEDS BOWLING GREEN, KY	11	9	82%	48	45	94%	1 AH Fat 1 Crude Fiber, Max 1 Calcium, Min
BURKMANN FEEDS DANVILLE, KY	89	83	93%	666	658	99%	1 Crude Fiber, Max 1 Phosphorus, Min 2 Cobalt 1 Potassium 2 Vitamin A 1 Chlortetracycline
BURKMANN FEEDS GLASGOW, KY	26	24	92%	103	101	98%	1 Phosphorus, Min 1 Vitamin A
BURKMANN FEEDS HARNED, KY	14	9	64%	91	84	92%	2 Crude Protein 1 Phosphorus, Min 1 Salt, Min 2 Copper 1 Potassium
BURKMANN FEEDS LONDON, KY	2	2	100%	2	2	100%	None
BURKMANN FEEDS OF EDMONTON EDMONTON, KY	1	0	0%	5	3	60%	1 Calcium, Min 1 Lasalocid
BURKMANN PULASKI EUBANK, KY	5	5	100%	19	19	100%	None
BUSCH AGRICULTURAL RESOURCES JONESBORO, AR	1	1	100%	3	3	100%	None
BUTLER ANIMAL HEALTH SUPPLY DUBLIN, OH	1	0	0%	12	9	75%	1 Crude Protein 1 Crude Fat, Min 1 Potassium
C & F FARM SUPPLY HISEVILLE, KY	1	1	100%	5	5	100%	None
C & S PRODUCTS CO INC FORT DODGE, IA	2	2	100%	5	5	100%	None
CALCIUM PRODUCTS SWAYZEE, IN	1	1	100%	1	1	100%	None

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
CALHOUN FEED SERVICE LLC MADISONVILLE, KY	5	4	80%	31	29	94%	1 Crude Fiber, Max 1 Zinc
CALLIHAN FEEDS ARGILLITE, KY	2	2	100%	7	7	100%	None
CANEYVILLE MILLING INC CANEYVILLE, KY	38	30	79%	168	158	94%	1 Crude Protein 4 Calcium, Min 5 Phosphorus, Min
CANIDAE CORPORATION NORCO, CA	7	5	71%	78	75	96%	1 Calcium, Min 1 Zinc 1 Vitamin A
CANYON CREEK RANCH ANDERSON, SC	2	2	100%	4	4	100%	None
CARDINAL LABORATORIES INC AZUSA, CA	1	1	100%	10	10	100%	None
CARGILL - CORN MILLING DIV DAYTON, OH	5	5	100%	15	15	100%	None
CARGILL ANIMAL NUTRITION MINNEAPOLIS, MN	11	7	64%	105	101	96%	4 Vitamin A
CARGILL INC - PROCESSING GROUP LAFAYETTE, IN	1	1	100%	2	2	100%	None
CARGILL INC WOOSTER, OH	3	3	100%	17	17	100%	None
CARGILL INCORPORATED MINNEAPOLIS, MN	10	8	80%	69	67	97%	1 Calcium, Min 1 Vitamin A
CARGILL-PROCESSING GROUP SIDNEY, OH	3	3	100%	15	15	100%	None
CAROLINA PRIME PET MURPHY, NC	1	1	100%	1	1	100%	None
CASTOR-POLLUX PET WORKS CLACKAMAS, OR	8	8	100%	73	73	100%	None
CELL RESPONSE FORMULATION LLC JACKSON, WY	1	1	100%	13	13	100%	None
CENTRAL FARM SUPPLY LOUISVILLE, KY	13	11	85%	78	73	94%	1 Crude Protein 2 Crude Fiber, Max 1 Phosphorus, Min 1 Potassium
CENTRAL FARMERS SUPPLY GREENSBURG, KY	5	4	80%	30	29	97%	1 Copper
CHAMPION PETFOODS LP CANADA	1	1	100%	12	12	100%	None
CHARLEE BEAR FARMS INC ST FRANCIS, WI	1	1	100%	2	2	100%	None
CITROSUCO NORTH AMERICA LAKE WALES, FL	2	2	100%	8	8	100%	None
CLARKS GROCERY ROCKHOLDS, KY	1	1	100%	5	5	100%	None
CLEMENTS AGRI-SUPPLY INC SPRINGFIELD, KY	2	2	100%	11	11	100%	None
CLOUD STAR SAN LUIS OBISPO, CA	1	1	100%	3	3	100%	None
COMMONWEALTH AGRI-ENERGY LLC HOPKINSVILLE, KY	9	9	100%	36	36	100%	None
CONSOLIDATED BLENDEES (1/12) HASTINGS, NE	1	1	100%	2	2	100%	None
CONSOLIDATED GRAIN & BARGE MT VERNON, IN	21	21	100%	25	25	100%	None
CORMIER RICE MILLING CO DEWITT, AR	1	1	100%	5	5	100%	None
CORN PRODUCTS INTL INC INDIANAPOLIS, IN	3	2	67%	9	7	78%	1 Crude Protein 1 Crude Fiber, Max
COUNTRY ACRES FEED CO INC BRENTWOOD, MO	5	5	100%	33	33	100%	None
COX VETERINARY LABORATORY CHESTER, SC	1	0	0%	10	8	80%	1 Iron 1 Vitamin A
CPC COMMODITIES LLC FOUNTAIN RUN, KY	79	69	87%	443	428	97%	3 Crude Protein 1 Crude Fiber, Max 1 Acid Detergent Fiber 2 Calcium, Min 3 Salt, Min 1 Copper 2 Vitamin A 2 Lasalocid
CREEKSIDE FEED & FARM MARION, KY	13	10	77%	73	70	96%	3 Crude Protein
CROP PRODUCTION SERVICE HORSE CAVE, KY	1	1	100%	5	5	100%	None
CSD NUTRITION LLC NORTH SIOUX CITY, SD	1	0	0%	6	5	83%	1 Crude Fat, Min
CUSTOM FEED MILL LLC MORGANFIELD, KY	1	1	100%	10	10	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
D & D INGREDIENT DIST INC DELPHOS, OH	1	1	100%	1	1	100%	None
D & R METAL & AG SUPPLY GREENUP, KY	2	0	0%	12	10	83%	1 Potassium 1 Crude Protein
DABNEY FEED & SUPPLY SOMERSET, KY	2	2	100%	8	8	100%	None
DAD'S PET CARE INC MEADVILLE, PA	6	6	100%	31	31	100%	None
DARLING INTERNATIONAL INC DES MOINES, IA	2	2	100%	9	9	100%	None
DAY & DAY FEED MILL COLUMBIA, KY	3	1	33%	13	11	85%	2 Calcium, Min
DEL MONTE PET PRODUCTS PITTSBURGH, PA	10	9	90%	86	85	99%	1 Crude Fat, Min
DIAMOND PET FOODS CO META, MO	17	13	76%	182	178	98%	1 Calcium, Min 3 Weight, Net
DICK VAN PATTEN'S PACOIMA, CA	10	9	90%	94	93	99%	1 Crude Fat, Min
DIXIE FEED & SUPPLY FALMOUTH, KY	2	1	50%	14	13	93%	1 Calcium, Min
DOG CHEWZ NYC NEW YORK, NY	1	1	100%	2	2	100%	None
DOGGY DELIRIOUS MONROE, WA	1	0	0%	3	1	33%	1 Crude Protein 1 Weight, Net
DOLGENCORP LLC GOODLETTSVILLE, TN	11	11	100%	117	117	100%	None
DYNAMIC COLOR SOLUTIONS MILWAUKEE, WI	1	1	100%	1	1	100%	None
DZA BRANDS LLC SALISBURY, NC	10	10	100%	99	99	100%	None
EIGHT IN ONE PET PRODUCTS BLACKSBURG, VA	2	2	100%	8	8	100%	None
ELANCO ANIMAL HEALTH GREENFIELD, IN	4	4	100%	4	4	100%	None
EMBASSY INTERNATIONAL, INC. CINCINNATI, OH	5	4	80%	52	50	96%	1 AH Fat 1 Iron
ENDRES PROCESSING MICHIGAN LLC UPPER SANDUSKY, OH	1	1	100%	3	3	100%	None
EQUITY GROUP-KY DIVISION LLC FRANKLIN, KY	33	33	100%	98	98	100%	None
EVANGERS DOG & CAT FOOD CO INC WHEELING, IL	3	0	0%	34	30	88%	1 Crude Protein 3 AH Fat
EVOLVED HABITATS NEW ROADS, LA	5	2	40%	35	30	86%	2 Crude Protein 1 Cobalt 1 Iron 1 Zinc
EXCLUSIVELY PET INC MILWAUKEE, WI	3	1	33%	9	7	78%	1 Crude Protein 1 Crude Fat, Min
F M BROWNS SONS INC SINKING SPRING, PA	7	6	86%	26	24	92%	1 Crude Protein 1 Crude Fiber, Max
F/K/A BLUE SEAL FEEDS INC MUSCATINE, IA	8	7	88%	92	90	98%	1 Crude Protein 1 AH Fat
FAITHWAY FEED CO INC GUNTERSVILLE, AL	7	4	57%	55	52	95%	1 Salt, Min 1 Copper 1 Zinc
FARMERS FEED MILL LEXINGTON, KY	11	8	73%	73	70	96%	2 Crude Protein 1 Crude Fat, Min
FARNAM CO INC PHOENIX, AZ	1	1	100%	7	7	100%	None
FEDERATED FOODS INC ARLINGTON HGTS, IL	1	1	100%	11	11	100%	None
FEED PRODUCTS SOUTH ST. LOUIS, MO	1	1	100%	5	5	100%	None
FEEDERS SUPPLY COMPANY LOUISVILLE, KY	1	1	100%	10	10	100%	None
FINISH LINE HORSE PRODUCTS BENSENVILLE, IL	1	1	100%	11	11	100%	None
FLUKER FARMS INC PORT ALLEN, LA	2	1	50%	7	6	86%	1 Crude Fat, Min
FOOD LION STORES (5/11) SALISBURY, NC	1	1	100%	10	10	100%	None
FOPPERS GOURMET PET TREAT BAKERY LLC LOGANSPOUR, IN	2	0	0%	6	4	67%	2 Crude Protein
FRANK HINTON & SON PLUMMERS LANDING, KY	12	8	67%	72	66	92%	3 Crude Protein 1 Acid Detergent Fiber 1 Salt, Min 1 Copper

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FREDS INC - CHERRY EVANS MEMPHIS, TN	10	8	80%	97	94	97%	1 Crude Protein 1 Sodium 1 Zinc
FRESH PET SECAUCUS, NJ	3	1	33%	31	29	94%	1 Crude Protein 1 Potassium
FROMM FAMILY FOODS LLC MEQUON, WI	4	3	75%	42	41	98%	1 Crude Protein
GHC MILLING FORDSVILLE, KY	17	16	94%	87	86	99%	1 Crude Protein
GILLIAMS FARM SUPPLY OLIVE HILL, KY	2	2	100%	12	12	100%	None
GIMBORN SPECIALTIES LLC ATLANTA, GA	1	1	100%	4	4	100%	None
GINGER RIDGE BOWLING GREEN, OH	1	0	0%	4	3	75%	1 Crude Fiber, Max
GOLD CITY FEED MILL FRANKLIN, KY	1	0	0%	10	8	80%	1 Copper 1 Decoquinat
GOLDENROD FEEDS LLC LIBERTY, KY	3	3	100%	15	15	100%	None
GRAHAM FEED CO TERRE HAUTE, IN	2	1	50%	12	10	83%	1 Crude Protein 1 Crude Fiber, Max
GRAIN PROCESSING CORPORATION WASHINGTON, IN	6	6	100%	13	13	100%	None
GRANDMA MAE'S COUNTRY NATURALS NEW YORK, NY	1	0	0%	3	2	67%	1 Crude Fat, Min
GREEN PLAINS OBION RIVES, TN	18	18	100%	63	63	100%	None
GREEN RIVER FEED MILL MORGANTOWN, KY	12	8	67%	77	70	91%	1 Crude Protein 3 Calcium, Min 3 Phosphorus, Min
GRIFFIN INDUSTRIES INC RUSSELLVILLE, KY	1	0	0%	4	2	50%	1 Calcium, Min 1 Phosphorus, Min
GRIZZLY PET PRODUCTS INC WOODINVILLE, WA	1	1	100%	2	2	100%	None
GUTWEIN & CO INC REYNOLDS, IN	1	1	100%	1	1	100%	None
HALO-PURELY FOR PETS TAMPA, FL	1	0	0%	2	1	50%	1 Crude Protein
HANBY FARMS FEED & SUPPLY NASHPORT, OH	4	4	100%	23	23	100%	None
HARDIN COUNTY MILLING COMPANY ELIZABETHTOWN, KY	1	1	100%	5	5	100%	None
HARTZ MOUNTAIN CORPORATION SECAUCUS, NJ	1	0	0%	8	7	88%	1 Crude Protein
HBD INTERNATIONAL INC BRENTWOOD, TN	1	1	100%	3	3	100%	None
HEALTH-PRO NUTRITION S EL MONTE, CA	6	5	83%	17	15	88%	1 Crude Protein 1 AH Fat
HEALTHY COAT/SA BEEF GIBSON, IA	1	1	100%	1	1	100%	None
HEARTBREAK RIDGE FARM SUPPLY CLAY CITY, KY	1	0	0%	6	5	83%	1 Phosphorus, Min
HEATH OUTDOOR PRODUCTS COOPERSVILLE, MI	2	2	100%	9	9	100%	None
HIGGINS GROUP CORPORATION MIAMI, FL	2	2	100%	7	7	100%	None
HIKARI SALES USA INC HAYWARD, CA	3	3	100%	14	14	100%	None
HILLS PET NUTRITION INC TOPEKA, KS	10	10	100%	106	106	100%	None
HILTON HERBS SOMERSET, UK	1	1	100%	4	4	100%	None
HI-TEK RATIONS DUBLIN, GA	5	4	80%	55	54	98%	1 Magnesium
HOOVERS FEED MILL SCOTTSVILLE, KY	10	10	100%	57	57	100%	None
HORSE HEALTH PRODUCTS PHOENIX, AZ	2	0	0%	16	14	88%	1 Potassium 1 Selenium
HORSE NIBBLES QUAKERTOWN, PA	1	1	100%	3	3	100%	None
HORSEMENS PRIDE INC STREETSBORO, OH	2	1	50%	4	3	75%	1 Crude Protein
HUBBARD FEEDS INC HOPKINSVILLE, KY	26	21	81%	197	192	97%	1 Crude Fiber, Max 1 Salt, Min 2 Iron 1 Zinc
HUBBARD FEEDS INC MANKATO, MN	6	4	67%	43	41	95%	1 Crude Protein 1 Vitamin A
HUBBARD MILLING CO BOTKINS, OH	1	1	100%	6	6	100%	None
HUNTERS SPECIALTIES INC CEDAR RAPIDS, IA	4	1	25%	31	28	90%	3 Calcium, Min

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HYLAND CO INC ASHLAND, KY	21	13	62%	203	192	95%	3 Crude Protein 3 Crude Fat, Min 2 AH Fat 1 Calcium, Min 1 Crude Fiber, Max 1 Copper
IAMS FOOD COMPANY MASON, OH	10	10	100%	99	99	100%	None
IGA INC CHICAGO, IL	2	2	100%	22	22	100%	None
I'M A LITTLE TEACUP CORP SUNRISE, FL	1	1	100%	1	1	100%	None
IMS PET INDUSTRIES INC WOOD RIDGE NJ	2	0	0%	4	2	50%	2 Crude Protein
INGREDIENT RESOURCE CORP LOUISVILLE, KY	2	1	50%	4	2	50%	1 Calcium, Min 1 Phosphorus, Min
INTEGRITY FEEDS LLC HARDIN, KY	1	1	100%	7	7	100%	None
INTEGRITY FEEDS LLC OWENSBORO, KY	8	6	75%	53	51	96%	1 Crude Protein 1 Selenium
INTEGRITY FEEDS, LLC PARK CITY, KY	18	11	61%	122	114	93%	2 Crude Protein 3 Calcium, Min 2 Zinc 1 Carbadox
INTER AMERICAN CINCINNATI, OH	17	16	94%	170	169	99%	1 Crude Protein
INTERNATIONAL PET FOODS CO MIAMI, FL	3	2	67%	32	31	97%	1 Magnesium
IVESCO LLC HARRISBURG, VA	1	1	100%	2	2	100%	None
J & H FEED & TACK INC STAFFORDSVILLE, KY	7	2	29%	42	31	74%	4 Crude Protein 1 Acid Detergent Fiber 2 Calcium, Min 3 Phosphorus, Min 1 Copper
J R SIMPLOT COMPANY LATHROP, CA	1	1	100%	12	12	100%	None
JABETOWN MILL EWING, KY	4	4	100%	28	28	100%	None
JACKS AQUARIUM & PETS DAYTON OH	3	2	67%	9	8	89%	1 Crude Protein
JBS UNITED INC SHERIDAN, IN	1	1	100%	9	9	100%	None
JC QUARTER HORSES LLC NEW CASTLE, PA	3	2	67%	15	14	93%	1 Weight, Net
JEFFRIES FEED SEED & SUPPLY CAMPBELLSVILLE, KY	1	1	100%	6	6	100%	None
JIM BEAM BRANDS BOSTON, KY	1	1	100%	3	3	100%	None
JIM BEAM BRANDS CLERMONT, KY	1	1	100%	9	9	100%	None
JOJO'S BEST EDEN, ID	1	1	100%	2	2	100%	None
JONESBORO RICE MILL JONESBORO, AR	1	1	100%	3	3	100%	None
JOY PET FOODS PINCKNEYVILLE, IL	1	1	100%	11	11	100%	None
JT ENTERPRISES MYRA, KY	2	0	0%	13	9	69%	2 Crude Protein 1 Crude Fat, Min 1 Phosphorus, Min
JUST DOGS! BAKERY INC WASHINGTON, PA	3	3	100%	8	8	100%	None
KALMBACH FEEDS INC UPPER SANDUSKY, OH	22	20	91%	182	180	99%	1 Crude Protein 1 Lasalocid
KAYTEE PRODUCTS INC CHILTON, WI	1	1	100%	2	2	100%	None
KELLY FOODS CORPORATION MEDINA, OH	4	4	100%	26	26	100%	None
KENT FEEDS INC ALTOONA, IA	1	1	100%	9	9	100%	None
KENT FEEDS INC LOUISVILLE, KY	17	12	71%	144	139	97%	1 Calcium, Min 1 Vitamin A 2 Chromium 1 Magnesium
KENT NUTRITION GROUP INC MUSCATINE, IA	7	6	86%	54	53	98%	1 Calcium, Min

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
KENTUCKY NUTRITION SERVICE LAWRENCEBURG, KY	10	8	80%	105	102	97%	1 Calcium, Min 1 Copper 1 Iron
KENTUCKY PERFORMANCE PRODUCTS VERSAILLES, KY	1	1	100%	9	9	100%	None
KENTUCKY RAIL TRANSPORT (5/12) BOWLING GREEN, KY	7	4	57%	40	31	78%	2 Crude Protein 1 Calcium, Min 2 Phosphorus, Min 3 Copper 1 Zinc
KLN ENTERPRISES INC PERHAM, MN	4	4	100%	38	38	100%	None
K-MART CORPORATION HOFFMAN ESTATES, IL	11	10	91%	113	112	99%	1 AH Fat
KONG COMPANY GOLDEN, CO	3	3	100%	8	8	100%	None
KREAMER FEED KREAMER, PA	1	1	100%	6	6	100%	None
KROGER CINCINNATI, OH	13	11	85%	134	132	99%	1 Crude Fat, Min 1 Vitamin A
K-STAR COMMODITIES HOPKINSVILLE, KY	7	5	71%	68	62	91%	1 Phosphorus, Min 2 Copper 2 Zinc 1 Vitamin A
LA BUDDE GROUP INC GRAFTON, WI	1	1	100%	2	2	100%	None
LA CROSSE MILLING COMPANY COCHRANE, WI	1	1	100%	4	4	100%	None
LAMA WELLNESS SERVICE HENDERSON, KY	2	2	100%	13	13	100%	None
LAND O'LAKES PURINA FEED LLC SHOREVIEW, MN	5	4	80%	35	34	97%	1 Crude Protein
LEBANON SEABOARD/BINGHAMPTON LEBANON, PA	1	1	100%	3	3	100%	None
LESTER STUTZMAN FEED MILL MARION, KY	13	9	69%	76	72	95%	1 Calcium, Min 3 Phosphorus, Min
LIFE DATA LABS INC CHEROKEE, AL	1	1	100%	14	14	100%	None
LINCOLNLAND AGRI-ENERGY PALESTINE, IL	2	2	100%	10	10	100%	None
LITTLE EATZ LOUISVILLE, KY	1	1	100%	2	2	100%	None
LOVING PETS PRODUCTS CRANBURY, NJ	1	1	100%	2	2	100%	None
LOWES PELLETS & GRAIN INC GREENSBURG, IN	8	7	88%	43	42	98%	1 Lasalocid
M & W MILLING COMPANY INC COLUMBIA, KY	2	1	50%	13	12	92%	1 Crude Protein
MAJESTY'S ANIMAL NUTRITION BEND, OR	1	0	0%	4	3	75%	1 Crude Fiber, Max
MANNA PRO PRODUCTS, LLC ST LOUIS, MO	13	8	62%	112	105	94%	2 Crude Protein 1 Salt, Min 2 Copper 1 Zinc 1 Vitamin A
MAPLE CREST FARM MANCHESTER, KY	1	1	100%	7	7	100%	None
MARION FEED MILL INC MARION, KY	1	0	0%	8	6	75%	1 Salt, Min 1 Zinc
MARS FISHCARE NORTH AMERICA CHALFONT, PA	2	2	100%	4	4	100%	None
MARS HORSECARE US INC DALTON, OH	1	1	100%	6	6	100%	None
MARS PETCARE US INC FRANKLIN, TN	19	19	100%	189	189	100%	None
MARSHALL PET PRODUCTS WOLCOTT, NY	1	1	100%	2	2	100%	None
MARTINS FEED & SUPPLY LIBERTY, KY	4	4	100%	9	9	100%	None
MAR-VO MINERAL CO INC OSSEO, MI	1	1	100%	10	10	100%	None
MAXIMUM DRAW PRODUCTS ARLINGTON, KY	1	0	0%	10	7	70%	1 Iron 1 Magnesium 1 Vitamin A
MAYS LICK MILL MAYS LICK, KY	5	4	80%	31	30	97%	1 Crude Protein
MAZELIN FEED MILL SCOTTSVILLE, KY	9	9	100%	54	54	100%	None
MCCAULEY BROS INC VERSAILLES, KY	15	15	100%	106	106	100%	None

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MCGAHAN & COMPANY PAINTSVILLE, KY	3	1	33%	21	19	90%	1 Salt, Min 1 Vitamin A
MCRAY FEED LLC HARRODSBURG, KY	11	8	73%	69	66	96%	1 Calcium, Min 1 Salt, Min 1 Zinc
MEIJER INC GRAND RAPIDS, MI	11	10	91%	118	117	99%	1 Iron
MENIFEE CO FARM SUPPLY FRENCHBURG, KY	1	1	100%	6	6	100%	None
MENNEL MILLING COMPANY FOSTORIA, OH	1	1	100%	2	2	100%	None
MERRICK PET CARE INC AMARILLO, TX	5	4	80%	53	52	98%	1 Zinc
MFS ALLIANCE INC EDMONTON, KY	4	3	75%	30	29	97%	1 Crude Protein
MIDDLEBROOK FARM LEXINGTON, KY	1	1	100%	8	8	100%	None
MID-SOUTH MILLING CO MEMPHIS, TN	6	6	100%	25	25	100%	None
MID-STATES DISTRIBUTING CO ST. PAUL, MN	9	9	100%	90	90	100%	None
MIDWESTERN PET FOODS INC EVANSVILLE, IN	33	22	67%	315	304	97%	1 Crude Protein 1 Crude Fat, Min 5 AH Fat 4 Calcium, Min
MILK SPECIALTIES COMPANY CARPENTERSVILLE, IL	2	2	100%	13	13	100%	None
MIRACLE CORP PRODUCTS DAYTON, OH	1	0	0%	11	10	91%	1 Crude Fiber, Max
MONROE BROS FEED MILL CAVE CITY, KY	1	1	100%	5	5	100%	None
MORTON SALT INC CHICAGO, IL	1	1	100%	7	7	100%	None
MOSAIC CROP NUTRITION LLC LITHIA, FL	2	2	100%	12	12	100%	None
MRS PASTURES COOKIES FOR HORSE WALNUT CREEK, CA	2	2	100%	5	5	100%	None
NATURA PET PRODUCTS FREMONT, NE	24	18	75%	247	241	98%	1 Crude Protein 2 AH Fat 3 Calcium, Min
NATURES ANIMALS INC, MAMARONECK, NY	2	1	50%	5	4	80%	1 Weight, Net
NATURES RECIPE PET FOODS PITTSBURGH, PA	5	4	80%	42	41	98%	1 Crude Fat, Min
NATURES VARIETY LINCOLN, NE	3	2	67%	31	30	97%	1 AH Fat
NEOGEN CORP LEXINGTON, KY	1	1	100%	6	6	100%	None
NESTLE PURINA PETCARE CO ST LOUIS, MO	20	18	90%	213	211	99%	1 Crude Protein 1 Crude Fat, Min
NEW ENERGY CORP SOUTH BEND, IN	4	4	100%	14	14	100%	None
NEWMANS OWN ORGANICS APTOS, CA	4	4	100%	30	30	100%	None
NICKER BAIT SAN FRANCISCO, CA	1	0	0%	5	4	80%	1 Crude Protein
NORTH AMERICAN SALT CO OVERLAND PARK, KS	1	1	100%	6	6	100%	None
NORTHERN PET PRODUCTS INC CANADA	1	1	100%	4	4	100%	None
NUMMY TUM TUM CORVALLIS, OR	1	1	100%	3	3	100%	None
NUNN MILLING COMPANY INC EVANSVILLE, IN	2	2	100%	26	26	100%	None
NUTRENA MINNEAPOLIS MN	10	10	100%	79	79	100%	None
NUTRO PRODUCTS INC FRANKLIN, TN	19	19	100%	185	185	100%	None
ODOM'S LIVESTOCK SUPPLY MAYFIELD, KY	2	2	100%	12	12	100%	None
OHIO PET FOODS INC LISBON, OH	1	1	100%	11	11	100%	None
OMEGA PAW INC CANADA	1	1	100%	3	3	100%	None
OMEGA SEA LTD PAINESVILLE, OH	3	2	67%	14	13	93%	1 Crude Fat, Min
ORSCHL N FARM & HOME MOBERLY, MO	1	1	100%	11	11	100%	None
OURPET'S FAIRPORT HARBOR, OH	2	2	100%	8	8	100%	None
OWENSBORO GRAIN CO INC OWENSBORO, KY	21	17	81%	34	30	88%	4 Crude Fiber, Max
OXBOW ENTERPRISES MURDOCK, NE	1	0	0%	6	5	83%	1 Crude Protein
PACIFIC COAST DISTRIBUTING PHOENIX, AZ	13	13	100%	112	112	100%	None
PCS PHOSPHATE CO INC WEEPING WATER, NE	1	1	100%	8	8	100%	None
PENNFIELD ANIMAL HEALTH OMAHA, NE	3	3	100%	3	3	100%	None
PENNFIELD CORPORATION LANCASTER, PA	2	2	100%	14	14	100%	None

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PERDUE FARMS FEED MILL LIVERMORE, KY	6	6	100%	72	72	100%	None
PERFORMANCE FEEDS RED BOILING SPGS, TN	17	9	53%	133	124	93%	1 Crude Protein 1 Crude Fiber, Max 1 Calcium, Min 6 Phosphorus, Min
PET BRANDS COLUMBUS, OH	2	2	100%	3	3	100%	None
PET VENTURES INC NORTH HOLLYWOOD, CA	1	0	0%	2	1	50%	1 Crude Protein
PETCO ANIMAL SUPPLIES SAN DIEGO, CA	1	0	0%	3	2	67%	1 Crude Fat, Min
PETGUARD INC GREEN COVE SPGS, FL	3	2	67%	32	31	97%	1 Crude Protein
PETKIND BC, CANADA	1	0	0%	2	1	50%	1 Crude Protein
PETPLAY INC RANCHO CUCAMONGA, CA	7	7	100%	70	70	100%	None
PETROPICS LLC CARLSBORG, WA	5	4	80%	51	50	98%	1 AH Fat
PETS OF AMERICA WHOLESALE SPLY WILLIAMSTON, NC	1	1	100%	13	13	100%	None
PFIZER INC MADISON, NJ	1	0	0%	7	6	86%	1 Salt, Min
PHARMAKA GMBH & CO GERMANY	1	1	100%	1	1	100%	None
PHIBRO ANIMAL HEALTH RIDGEFIELD PARK, NJ	1	1	100%	1	1	100%	None
PILGRIM'S PRIDE MAYFIELD, KY	4	4	100%	17	17	100%	None
PLATO PET TREATS LOGANSPOET, IN	1	1	100%	7	7	100%	None
PMI NUTRITION INC BRENTWOOD, MO	12	10	83%	107	105	98%	1 Crude Fat, Min 1 Vitamin A
POET NUTRITION INC SIOUX FALLS, SD	7	7	100%	21	21	100%	None
PREMIER FEED COMPANY SABINA, OH	1	0	0%	10	8	80%	1 Acid Detergent Fiber 1 Magnesium
PREMIUM NUTRITIONAL PRODUCTS MISSION, KS	2	2	100%	4	4	100%	None
PREWITTS FEED & FARM SUPPLY WILLIAMSBURG, KY	1	0	0%	8	7	88%	1 Crude Protein
PRIMOS HUNTING CALLS FLORA, MS	1	0	0%	5	3	60%	1 Calcium, Min 1 Phosphorus, Min
PROCESS MANAGER LLC WINCHESTER, KY	1	0	0%	9	2	22%	1 Crude Protein 1 Crude Fiber, Max 1 Copper 1 Magnesium 1 Manganese 1 Zinc 1 Weight, Net
PRODUCER FEEDS LOUISVILLE, KY	26	24	92%	184	182	99%	1 Phosphorus, Min 1 Copper
PROFESSIONAL NUTRITION SERVICE FLEMINGSBURG, KY	1	1	100%	6	6	100%	None
PROGRESSIVE NUTRITION HARLAN, IA	2	2	100%	15	15	100%	None
PROVIMI NORTH AMERICA INC BROOKVILLE, OH	3	3	100%	21	21	100%	None
PURINA MILLS EVANSVILLE, IN	2	2	100%	23	23	100%	None
PURINA MILLS INC FRANKFORT, IN	9	8	89%	56	55	98%	1 Selenium
PURINA MILLS INC MILFORD, IN	3	3	100%	23	23	100%	None
PURINA MILLS INC NASHVILLE, TN	37	34	92%	239	236	99%	1 Crude Protein 1 Salt, Min 1 Vitamin A
PURINA MILLS INC ST. LOUIS, MO	14	13	93%	96	95	99%	1 AH Fat
QUALITY FEED CO VERSAILLES, KY	2	1	50%	8	7	88%	1 Crude Protein
RED A FEEDS MANKATO, MN	7	5	71%	48	44	92%	1 Crude Protein 1 Copper 1 Zinc 1 Vitamin A
REDBARN PET PRODUCTS INC LONG BEACH, CA	1	1	100%	12	12	100%	None

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
REDMOND MINERALS INC REDMOND, UT	1	0	0%	9	7	78%	1 Copper 1 Manganese
RENAISSANCE NUTRITION INC ROARING SPRING, PA	4	3	75%	36	34	94%	1 Magnesium 1 Selenium
RICELAND FOODS STUTTART, AR	1	1	100%	2	2	100%	None
RICHDEL INC CARSON CITY, NV	1	1	100%	5	5	100%	None
RIDLEY BLOCK OPERATIONS FLEMINGSBURG, KY	38	29	76%	400	385	96%	6 Crude Protein 1 Cobalt 1 Copper 1 Manganese 1 Zinc 1 Vitamin A 1 Crude Fiber, Max 1 Calcium, Min 2 Selenium
RIDLEY BLOCK OPERATIONS MANKATO, MN	3	1	33%	31	28	90%	1 Selenium 1 Zinc 1 Vitamin A
RIDLEY SPECIALTY PRODUCTS MANKATO, MN	1	0	0%	15	13	87%	1 Crude Fat, Min 1 Vitamin A
RIP'S FARM CENTER TOLLESBORO, KY	17	11	65%	100	91	91%	1 Crude Protein 3 Calcium, Min 1 Phosphorus, Min 2 Copper 1 Zinc 1 Lasalocid
RIVER VALLEY ANIMAL FOODS ROBARDS, KY	5	5	100%	26	26	100%	None
ROBBIE DAWG BROOKLYN, NY	3	0	0%	12	8	67%	1 Crude Protein 1 AH Fat 2 Crude Fat, Min
ROSE ACRE FARMS INC SEYMOUR, IN	2	1	50%	4	2	50%	1 Crude Protein 1 Crude Fiber, Max
ROY UMBARGER & SONS INC BARGERSVILLE, IN	1	0	0%	6	5	83%	1 Crude Protein
ROYAL CANIN USA INC ST CHARLES, MO	8	8	100%	88	88	100%	None
RUDYS FARM CENTER KEVIL, KY	2	1	50%	8	7	88%	1 Zinc
RURAL KING MATTOON, IL	2	2	100%	20	20	100%	None
RUSSELL CO FARM STORE RUSSELL SPRINGS, KY	1	1	100%	6	6	100%	None
RUTHERFORD FARMERS COOP EAGLEVILLE, TN	4	2	50%	24	22	92%	1 Crude Fiber, Max 1 Calcium, Min
S S BOWLING GREEN BOWLING GREEN, KY	1	1	100%	6	6	100%	None
S S BRECK HARDINSBURG, KY	1	1	100%	5	5	100%	None
S S COOP INC - FEED DIV WINCHESTER, KY	83	79	95%	633	629	99%	1 Crude Protein 2 Vitamin A 1 Chlortetracycline
S S COOP INC RICHMOND, VA	34	30	88%	287	281	98%	2 Crude Fiber, Max 1 Copper 1 Manganese 1 Zinc 1 Vitamin A
S S DANVILLE DANVILLE, KY	3	1	33%	15	13	87%	2 Crude Fat, Min
S S FLEMINGSBURG FLEMINGSBURG, KY	2	2	100%	12	12	100%	None
S S HOPKINSVILLE HOPKINSVILLE, KY	2	1	50%	14	11	79%	1 Calcium, Min 1 Salt, Min 1 Zinc
S S LEITCHFIELD LEITCHFIELD, KY	6	6	100%	35	35	100%	None

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
S S LONDON LONDON, KY	2	0	0%	10	8	80%	1 Calcium, Min 1 Salt, Min
S S MAYSVILLE MAYSVILLE, KY	1	1	100%	7	7	100%	None
S S OWINGSVILLE SVC OWINGSVILLE, KY	4	4	100%	20	20	100%	None
S S OWINGSVL CARLISLE SERVICE CARLISLE, KY	1	1	100%	5	5	100%	None
S. S. COOP INC PARK CITY, KY	7	3	43%	74	69	93%	2 Crude Protein 3 Vitamin A
SAMS WEST INC BENTONVILLE, AR	3	3	100%	33	33	100%	None
SAVE-A-LOT LTD EARTH CITY, MO	13	11	85%	142	140	99%	1 Magnesium 1 Zinc
SHELL & KAMPETER INC ST THOMAS, MO	5	2	40%	51	48	94%	1 Crude Fat, Min 2 Calcium, Min
SCHOCHOH MILLS INC ADAIRVILLE, KY	3	3	100%	33	33	100%	None
SCIENCE HILL MILLING CO SCIENCE HILL, KY	11	11	100%	53	53	100%	None
SCOTT PET PRODUCTS ROCKVILLE, IN	2	0	0%	6	1	17%	2 Crude Protein 1 AH Fat 2 Crude Fiber, Max
SEEDS INC MEMPHIS, TN	8	6	75%	103	101	98%	1 AH Fat 1 Calcium, Min
SEMO MILLING SCOTT CITY, MO	1	1	100%	3	3	100%	None
SERGEANTS PET CARE PRODUCTS OMAHA, NE	1	1	100%	3	3	100%	None
SEVENTY FEEDS LLC EUBANK, KY	7	7	100%	36	36	100%	None
SHUCKS FENCE CO SHELBYVILLE, KY	1	1	100%	6	6	100%	None
SIEMER MILLING CO TEUTOPOLIS, IL	1	1	100%	4	4	100%	None
SIEMER MILLING COMPANY HOPKINSVILLE, KY	2	2	100%	8	8	100%	None
SIMMONS PET FOOD INC PENNSAUKEN, NJ	6	6	100%	61	61	100%	None
SIMPLY NOURISH PET FOOD CO PHOENIX, AZ	1	0	0%	12	11	92%	1 Vitamin A
SLIGO FEED MILL PENDLETON, KY	1	0	0%	10	8	80%	1 Calcium, Min 1 Zinc
SMITH SOUTH SIDE FEED & GRAIN BOWLING GREEN, KY	4	2	50%	25	22	88%	1 Calcium, Min 2 Zinc
SMITHFIELD PACKING CO. GRAYSON, KY	2	2	100%	8	8	100%	None
SMOKEHOUSE PET PRODUCTS INC. BURBANK CA	1	1	100%	4	4	100%	None
SO BRIGHT LLC EVERGREEN, CO	2	0	0%	20	18	90%	2 Crude Protein
SOJOURNER FARMS MINNEAPOLIS, MN	1	1	100%	3	3	100%	None
SOLID GOLD HEALTH PRODUCTS EL CAJON, CA	7	5	71%	77	75	97%	2 AH Fat
SOULISTIC NATICK, MA	3	1	33%	30	27	90%	1 Crude Protein 1 Potassium 1 Sodium
SOUTHEASTERN MINERALS INC BAINBRIDGE, GA	2	2	100%	6	6	100%	None
SOUTHEASTERN WHOLESALERS INC BARBOURVILLE, KY	1	1	100%	6	6	100%	None
SOUTHERN COTTON OIL CO DECATUR, IL	2	2	100%	6	6	100%	None
SOUTHERN STATES COOP INC RICHMOND, VA	3	3	100%	23	23	100%	None
SSC LOGISTICS SAN DIEGO, CA	5	4	80%	15	14	93%	1 Crude Protein
STELL & CHEWY'S LLC MILWAUKEE, WI	1	0	0%	12	10	83%	1 AH Fat 1 Calcium, Min
STEWARTS FARM SUPPLY BROOKSVILLE, KY	8	3	38%	49	39	80%	2 Calcium, Min 2 Phosphorus, Min 1 Copper 1 Zinc 1 Vitamin A 2 Crude Protein 1 Salt, Min
STOCKADE BRANDS INC PITTSBURG, KS	2	1	50%	10	9	90%	1 Crude Protein

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
STRITES MINES BAY SPRINGS, MS	1	0	0%	6	4	67%	1 Iron 1 Manganese
SUMMERSVILLE FEED MILL SUMMERSVILLE, KY	1	0	0%	5	4	80%	1 Crude Fat, Min
SUNSHINE MILLS INC RED BAY, AL	11	9	82%	115	113	98%	1 Calcium, Min 1 Magnesium
SUPERIOR AG JASPER, IN	20	16	80%	186	181	97%	1 Cobalt 1 Magnesium 3 Selenium
SUPERVALU INC CHASKA, MN	6	5	83%	60	59	98%	1 AH Fat
SWEETLIX LLC/HUBBARD FEEDS MANKATO, MN	1	1	100%	9	9	100%	None
T & H FEED SERVICE LEBANON, KY	1	1	100%	5	5	100%	None
TAMPA BULK SERVICES INC TAMPA, FL	1	1	100%	4	4	100%	None
TAPPS FEED & FARM SUPPLY SHELBYVILLE, KY	7	1	14%	48	41	85%	4 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max 1 Copper
TARGET CORPORATION MINNEAPOLIS, MN	5	3	60%	49	46	94%	1 AH Fat 1 Copper 1 Zinc
TASTE OF THE WILD META, MO	8	8	100%	84	84	100%	None
TATE&LYLE INGREDIENTS AMERICAS DECATUR, IL	3	3	100%	6	6	100%	None
TECH MIX INC STEWART, MN	1	0	0%	6	4	67%	1 Crude Protein 1 Crude Fiber, Max
TEDS FEED STORE MIDDLESBORO, KY	2	2	100%	17	17	100%	None
TENNESSEE FARMERS COOPERATIVE LAVERGNE, TN	16	14	88%	147	145	99%	1 Copper 1 Potassium
THE GOODLIFE RECIPE PETCARE CO FRANKLIN, TN	10	10	100%	87	87	100%	None
THE GREENIES COMPANY FRANKLIN, TN	1	1	100%	5	5	100%	None
THE SCOTTS COMPANY LLC MARYSVILLE, OH	1	1	100%	3	3	100%	None
THE SCOULAR CO. SARASOTA, FL	1	1	100%	2	2	100%	None
THREE DOG BAKERY KANSAS CITY, MO	6	6	100%	41	41	100%	None
TIZWHIZ SALES LTD SPRINGFIELD, OH	3	2	67%	27	25	93%	1 Crude Fiber, Max 1 Manganese
TOMLYN PRODUCTS FORT WORTH, TX	1	0	0%	9	8	89%	1 AH Fat
TOPCO ASSOC/BART BECHERER SKOKIE, IL	2	2	100%	20	20	100%	None
TRACTOR SUPPLY COMPANY BRENTWOOD, TN	36	33	92%	296	292	99%	1 Crude Protein 1 Crude Fat, Min 1 Calcium, Min 1 Phosphorus, Min
TRI STATE PACKAGING CO VAN WERT, OH	2	2	100%	9	9	100%	None
TRI-COUNTY FEEDS LIBERTY, KY	7	7	100%	33	33	100%	None
TRI-COUNTY FERTILIZER RICHMOND, KY	4	4	100%	15	15	100%	None
TRIMBLE CO FARM SUPPLY MILTON, KY	1	1	100%	8	8	100%	None
TRIPLE CROWN NUTRITION INC WAYZATA, MN	3	3	100%	28	28	100%	None
TUGGLE FEEDS HARRODSBURG, KY	1	1	100%	5	5	100%	None
TUTTLE'S HORSE CARE DIV CODY, WY	1	1	100%	13	13	100%	None
TWO RIVERS INC DRAKESBORO, KY	3	2	67%	19	17	89%	1 Copper 1 Zinc
TYSON FOODS FEED MILL SEBREE, KY	6	6	100%	66	66	100%	None
TYSON FRESH MEATS INC DAKOTA DUNES, SD	1	0	0%	5	3	60%	1 Crude Protein 1 AH Fat
TYSON PET PRODUCTS SPRINGDALE, AR	1	1	100%	4	4	100%	None
ULTRA PET CO., INC. ANDERSON, SC	1	1	100%	2	2	100%	None
UNITED LIVESTOCK COMMODITIES MAYFIELD, KY	1	1	100%	1	1	100%	None

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
UNITED PET GROUP/CINCINNATI BLACKSBURG, VA	1	1	100%	2	2	100%	None
US DURUM MILLING ST LOUIS, MO	3	3	100%	11	11	100%	None
VALERO MARKETING & SUPPLY CO SAN ANTONIO, TX	4	2	50%	18	16	89%	2 Crude Protein
VARIETY PET FOODS ENGLEWOOD, CO	2	2	100%	21	21	100%	None
VENTURE MILLING/BINGHAMPTON SALISBURY MD	3	3	100%	12	12	100%	None
VET-A-MIX INC SHENANDOAH, IA	1	1	100%	9	9	100%	None
VETERINARY PRESCRIPTION FEEDS HICKORY, KY	1	0	0%	11	10	91%	1 Calcium, Min
VETS CHOICE DEERPARK, NY	7	5	71%	71	69	97%	2 AH Fat
VITAKRAFT SUN SEED CO INC BOWLING GREEN, OH	7	7	100%	31	31	100%	None
WAGGIN TRAIN LLC ST LOUIS, MO	2	2	100%	3	3	100%	None
WALGREEN CO DEERFIELD, IL	2	2	100%	22	22	100%	None
WALMART STORES INC BENTONVILLE, AR	19	17	89%	197	195	99%	2 Iron
WELL PET LLC/MEGAN KOSKY TEWKSBURY, MA	24	16	67%	235	226	96%	1 Crude Protein 7 AH Fat 1 Sodium
WELLS PET FOODS CORP, MONMOUTH, IL	1	1	100%	3	3	100%	None
WERUVA INTERNATIONAL INC NATICK, MA	2	2	100%	20	20	100%	None
WESTERN HALL CO. OGDEN, UT	1	0	0%	7	6	86%	1 Crude Protein
WESTWAY FEED PRODUCTS/I GOOD NEW ORLEANS, LA	1	1	100%	10	10	100%	None
WHOLE FOODS MARKET AUSTIN, TX	1	0	0%	12	11	92%	1 AH Fat
WILDGAME INNOVATIONS LLC BROUSSARD, LA	3	1	33%	25	17	68%	1 Crude Protein 1 Crude Fat, Min 1 Phosphorus, Min 1 Copper 1 Potassium 1 Selenium 2 Vitamin A
WILLARD MILLING, INC WILLARD, KY	13	7	54%	116	110	95%	1 Crude Fat, Min 5 AH Fat
WILLIE BAKERY CLINTON, TN	1	0	0%	11	9	82%	1 Crude Protein 1 Crude Fat, Min
WINCHESTER FEED & SUPPLY INC WINCHESTER, KY	4	4	100%	29	29	100%	None
WOODFORD FEED CO VERSAILLES, KY	4	4	100%	24	24	100%	None
WOODYS PERFORMANCE HORSE FEED DICKINSON, ND	1	0	0%	10	8	80%	1 Phosphorus, Min 1 Copper
WRIGLEY 7-711 INC WEST LIBERTY, KY	2	2	100%	10	10	100%	None
YODERS FEED & SUPPLY RUSSELLVILLE, KY	21	14	67%	151	142	94%	3 Crude Protein 2 Calcium, Min 2 Phosphorus, Min 1 Copper 1 Zinc
ZIWPEAK LTD MT. MAUNGANUI, NEW ZEALAND	2	1	50%	23	21	91%	1 AH Fat 1 Calcium, Min
ZOO MED LABORATORIES, INC. SAN LUIS OBISPO, CA	3	2	67%	9	8	89%	1 Crude Protein
ZUKE'S DURANGO, CO	3	2	67%	11	10	91%	1 Crude Protein

Analytical Variations

Regulatory officials use analytical variations (AVs) as a guide for issuing any type of violation of the label guarantee. The total variation surrounding an analytical analysis of a feed product and comparing it to a label consists of (1) variation associated with the formulation and mixing in producing a feed, (2) variation of particle sizes in feed ingredients, (3) potential ingredient settling during transport, (4) variation associated with sampling, (5) variation associated with mixing and grinding samples, and (6) variation during analysis in the laboratory.

Most variations associated with sampling, mixing, grinding, and analysis in the laboratory are known as a result of many years of study to arrive at Official Methods. The AVs listed below allow for the inherent variability in sources that follow the Official Methods, with more weight given to the areas of analytical variation.

The laboratory reported value of an analyte in a sample is reviewed with respect to the guarantee using the AVs below as a guide.

Crude Protein	-3%	50%
NPN Equiv. Protein	-50%	20%
Lysine	-20%	200%
Crude Fat	-20%	+5 units
Crude Fiber	-60%	15%
Ash		5%
Calcium	-15%	+2 units
Phosphorus	-15%	+2 units
Salt	-40%	40%
Cobalt	-40%	200%
Copper	-40%	200%
Iodine	-40%	200%
Iron	-40%	200%
Magnesium	-40%	200%
Manganese	-40%	200%
Potassium	-30%	200%
Selenium	-40%	140%
Sodium	-30%	130%
Zinc	-40%	200%
Amprolium	-40%	20%
Arsanilic Acid	-20%	20%
Bacitracin	-40%	40%
Carbadox	-20%	20%
Chlortetracycline	-30%	30%
Coumaphos	-20%	20%

Decoquate	-20%	20%
Dichlorvos	-20%	30%
Hygromycin B	-25%	20%
Lasalocid	-25%	25%
Lincomycin	-25%	35%
Melengestrol Aceate	-30%	35%
Methoprene	-30%	30%
Monensin	-30%	30%
Oxytetracycline	-30%	30%
Penicillin	-35%	35%
Pyrantel Tartrate	-25%	25%
Rabon	-25%	30%
Roxarsone	-25%	25%
Sulfamethazine	-20%	20%
Sulfaquinoxaline	-25%	25%
Sulfathiazole	-20%	20%
Thiabendazole	-30%	30%
Tylosin	-30%	30%
Virginiamycin	-40%	40%
Zoalene	-25%	25%
Moisture		12%
Sodium Bicarbonate	-30%	30%
Invert Sugar	-10%	
Vitamin A	-30%	200%
Net wt. (small pkg.)	-5%	

UNIVERSITY OF KENTUCKY
COLLEGE OF AGRICULTURE
DIVISION OF REGULATORY SERVICES
AGRICULTURAL EXPERIMENT STATION
LEXINGTON, KY 40546

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