


Regulatory Bulletin 321

2012 COMMERCIAL FEEDS IN KENTUCKY



REGULATORY SERVICES

UK
UNIVERSITY OF
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College of Agriculture,
Food and Environment

Agricultural Experiment Station

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This report was compiled and prepared by G. Alan Harrison with the assistance of
the Inspection, Laboratory, and Administrative staffs.

Introduction

Kentucky's commercial feed law (KRS 250.491-250.631) dates from 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. Products falling under regulation include all types of pet foods, livestock minerals, complete animal and poultry feeds, protein or mineral blocks, supplements, feed ingredients, specialty materials such as drug premixes, vitamin and mineral supplements, liquid feeds, pet supplements, pet treats, and other specialized pet foods. The law does provide for exemptions for whole and unprocessed grain, raw meat, hay, straw, stover, silage, cobs, husks, and hulls when not processed.

Revisions in laws and regulations have added 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. 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 is intended to inform the feed purchaser, provide a basis for fair and equitable competition, and assist in assuring the safety of animal and human food.

Feed Mill Inspections

Maintaining high quality and safe feeds for animals requires a comprehensive inspection program. This is particularly important when mills manufacture medicated feed. Mills may be required to obtain a license from FDA to manufacture medicated feed depending on the type and concentration of drug. All feed mills must comply with good manufacturing practices which are assessed as part of a 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 participates in an inspection program in partnership with FDA that conducts 75 inspections of feed dealers and manufacturers each year. These inspections assure that mills are following FDA guidelines and are in compliance with rules prohibiting the 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.

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 contamination would have on the Kentucky livestock industry and thus human food. Feed industry personnel have 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.

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. Regulatory Services works in conjunction with the University of Kentucky Veterinary Diagnostic Laboratory, extension agents, local veterinarians, feed dealers, and feed manufacturers, and take samples of feed when these incidences occur. Our continued emphasis on frequent inspections, regular sampling, laboratory analysis, label reviews, and inspections support efforts to maintain food safety and minimize any adverse impact.

Feed Registration and Labeling

Manufacturers are required to register all feeds before distribution to ensure that correct label information is provided to the purchaser. Each year, more than a thousand new product labels are reviewed for guaranteed analysis, ingredient listings, and feeding directions for the intended animals or pets. Particular attention is given to medicated feed labels with regards to approved drug usage and dosage, statement of drug purpose, and any required warning, caution, or special feeding instructions. Misleading and unsubstan-

tiated information or claims are prohibited. Currently, over 18 thousand different commercial feeds and pet foods are currently registered for distribution by 1,175 feed companies. Approximately 230 manufacturing facilities located in Kentucky serve the feed and pet food industry with complete feeds, feed ingredients, or distribute their own private label products.

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 reviews product labels for compliance with applicable laws and regulations. The field inspectors assist manufacturers with labeling, resulting in more uniform and informative labels. In addition, spreadsheets are available to assist in establishing label guarantees and for estimating nutritional suitability of custom mixed feeds and even pet treats. 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 General Assembly appropriated funds. An 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 2012, the feed program collected a total of \$1,262,362 in inspection fees, registration fees and late payment penalties.

Inspection and Sampling

Tables 1, 2 and 3 list the number of official samples obtained by field inspectors of feed ingredients, complete feeds and supplements/premixes, and specialty feeds, respectively, during the past three years. Sampling of specialty feeds, especially dog and cat foods, has increased in the last two years while sample numbers for complete and supplement feeds have remained constant.

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 2012. Trends include increased emphasis on fat, minerals, and drug levels in collected samples.

Tonnage Distribution

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 1. Number of feed ingredients sampled.

Type	2012	2011	2010
Alfalfa Products	1	2	2
Animal Products	22	28	33
Barley Products	2	1	6
Corn Products	193	119	161
Cottonseed Products	11	5	10
Distillers Products	74	88	63
Mineral Ingredients	7	14	20
Molasses Products	3	2	3
Oat Products	9	3	6
Rice Products	3	7	8
Soybean Products	176	143	154
Wheat Products	11	15	9
Other	3	1	2
Total	515	428	477

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

Species/Type	2012	2011	2010
Poultry	102	148	128
Beef	297	257	237
Dairy	49	50	48
Swine	110	104	115
Sheep	18	6	9
Rabbit	21	22	24
Calf	55	39	35
Horse	147	206	188
Goat	31	30	35
Scratch & Gamebird	49	37	39
Fish Food	12	8	9
Custom Mix	51	39	72
Liquid	0	2	1
Blocks	5	27	11
Minerals	137	154	162
Drugs	38	26	13
Vitamins	2	4	4
Microbials	0	2	1
Other	179	126	138
Total	1,303	1,287	1,269

Table 3. Number of specialty feeds sampled.

Type	2012	2011	2010
Dry Dog Food	195	199	147
Soft-Moist Dog Foods	2	1	1
Canned Dog Foods	203	176	150
Dry Cat Foods	85	92	47
Canned Cat Foods	136	157	106
Specialty Dog & Cat Products	135	147	135
Specialty Pet Products	20	9	20
Aquarium Fish Foods	17	17	26
Specialty Bird Feeds	11	25	10
Total	804	823	642

Table 4. Number of official feed analyses reported.

Analysis	2012	2011	2010	
Proximate	Crude Protein	2,459	2,356	2,148
	NPN Equivalent Protein (urea)	74	73	98
	Lysine	0	0	1
	Crude Fat	803	470	318
	Acid Hydrolysis Fat	664	463	379
	Crude Fiber	588	1,015	866
	Acid Detergent Fiber	147	142	162
	Sugar, Invert	1	0	0
	Ash	78	64	44
	Moisture	229	45	67
	Minerals	Aluminum	2	0
Calcium		1,945	1,961	1,694
Cobalt		238	149	153
Copper		1,341	1,264	855
Fluorine		0	0	2
Iodine		0	2	0
Iron		794	703	345
Magnesium		875	888	705
Manganese		946	862	486
Molybdenum		19	14	15
Phosphorus		1,882	1,935	1,671
Potassium		1,208	1,140	940
Salt		882	864	840
Selenium		198	225	243
Sodium		606	654	427
Sulfur	4	1	0	
Zinc	1,323	1,287	928	
Vitamins	Vitamin A	262	335	342
	Vitamin D	1	0	3
	Vitamin E	2	0	0
Drugs	Amprolium	16	20	18
	Apramycin	0	1	0
	Bacitracin	6	11	3
	Carbadox	10	13	2
	Chlortetracycline	85	86	85
	Decoquinat	26	15	17
	Lasalocid	58	33	47
	Lincomycin	1	0	2
	Monensin	62	55	61
	Oxytetracycline	10	4	6
	Penicillin	0	0	0
	Sulfamethazine	1	0	0
	Tylosin	21	7	10
	Virginiamycin	14	0	0
	Zoalene	0	0	0
Mycotoxins	Aflatoxin	347	171	349
	Fumonisin	196	135	304
	Vomitoxin	211	49	107
Other	L. Acidophilus Bacteria	0	1	0
	Lactic Acid Bacteria	1	0	0
	Urease Activity	0	0	0
	Yeast Count	0	0	0
	Ingredient Listing	0	28	33
Net Weight	358	244	418	
Total	18,994	17,785	15,194	

Table 5. Reported tons of ingredients distributed.

Ingredient	Exempt			Non-Exempt		
	2012	2011	2010	2012	2011	2010
Alfalfa Products	1,316	1,606	2,014	6,756	2,567	1,639
Animal Product	23,895	37,710	29,154	60,091	68,718	52,175
Barley Products	66	94	161	790	733	617
Beet Products	5,768	11,432	2,837	2,554	727	695
Brewers Dried Products	69	118	90	1,683	8,061	8,632
Brewers Wet Grains	0	0	0	8,766	2,814	96,042
Citrus Products	705	495	4,056	2,416	730	3,686
Corn Products	94,142	100,793	65,780	108,684	86,554	92,980
Cottonseed Products	9,357	9,144	11,411	10,836	9,758	6,477
Distillers Dried Grain	10,814	96,686	113,277	207,733	226,430	240,984
Distillers Stillage	0	0	0	162,127	250,362	152,161
Drugs	88	157	22	375	487	447
Fats & Oils	13,070	27,775	16,006	4,348	10,789	12,873
Grain Sorghum	4	1	0	198	61	14
Linseed & Flax	11	25	357	403	303	99
Marine Products	22	17	12	1,249	578	461
Milk Products	1,507	1,747	1,280	2,583	1,785	514
Minerals	19,226	19,184	23,769	57,868	65,617	69,721
Molasses Products	22,958	20,249	24,900	9,615	12,083	10,739
Oat Products	3,786	2,001	1,860	2,538	2,738	1,973
Peanut Products	3,009	5,806	3,596	2,056	1	32
Rice Products	15,736	13,003	11,793	11,021	7,602	6,616
Rye	0	418	0	0	164	88
Soybean Products	171,019	150,749	189,729	533,834	534,397	453,635
Urea & Other NPN	599	778	995	12,845	2,316	1,760
Vitamins	447	140	394	2,840	3,545	1,667
Wheat Products	56,863	56,946	58,241	36,116	17,384	21,118
Whey (Liquid)	0	0	0	6,387	6,649	12,032
Grain Sold & Mixed	85,445	84,807	88,974	0	0	0
Other	9,493	7,494	2,852	44,921	32,936	16,864
Total	549,415	649,375	653,560	1,301,633	1,356,889	1,266,741

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

Type	Complete			Supplement/Premix		
	2012	2011	2010	2012	2011	2010
Chicken Starter Grower	6,991	6,499	6,659	441	414	416
Chicken Broiler	6,836	4,378	6,198	55	31	35
Chicken Layer Breeder	30,345	26,246	27,058	1,125	947	681
Turkey	691	1,611	2,327	7	50	15
Beef	200,670	198,352	138,821	36,106	36,894	38,304
Dairy	107,473	114,105	102,352	29,120	28,753	25,142
Swine	6,311	5,671	4,895	3,650	3,852	2,771
Sheep	6,632	2,825	2,667	411	340	329
Calf	7,809	7,159	7,986	0	0	0
Horse	82,177	84,301	83,571	0	0	0
Pet Food	217,984	187,935	180,340	0	0	0
Fish	1,935	939	1,311	0	0	0
Rabbit	3,705	4,414	2,380	0	0	0
Scratch Feed	3,744	4,560	4,423	0	0	0
Custom Mix	183,019	187,905	202,374	0	0	0
Other	43,830	94,208	51,727	0	0	0
Dried Molasses	0	0	0	28	138	40
Drug Premixes	0	0	0	629	789	685
Liquid	0	0	0	3,438	14,717	7,737
Microbial Products	0	0	0	156	93	63
Minerals	0	0	0	15,938	23,207	24,411
Vitamin Premix	0	0	0	2,116	1,037	3,104
Total	910,152	931,108	825,089	93,220	111,262	103,733

Report of Official Feed Samples Analyzed—2012

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
SPECIAL SAMPLE	12	12	100%	55	55	100%	None
4 SEASONS MARKETING, MANKATO, MN	1	1	100%	9	9	100%	None
ABENGOA BIOENERGY OF INDIANA, MT VERNON, IN	11	7	64%	81	75	93%	3 Aflatoxin 3 Fumonisin
ACADIAN SEAPLANTS LTD/E KANE, CANADA B3B 1X8	1	1	100%	8	8	100%	None
ADAIRVILLE FEED MILL #2/RVILLE, ADAIRVILLE, KY	14	11	79%	95	90	95%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min 1 Zinc 1 Fumonisin
ADAIRVILLE FEED MILL, ADAIRVILLE, KY	12	9	75%	88	85	97%	1 Copper 2 Aflatoxin
ADM (SOY PROCESSING), FRANKFORT, IN	4	4	100%	15	15	100%	None
ADM ALLIANCE NUTRITION INC, QUINCY, IL	31	26	84%	260	253	97%	2 Crude Protein 1 Selenium 4 Vitamin A
ADM ALLIANCE NUTRITION, CAMPBELLSVILLE, KY	3	3	100%	36	36	100%	None
ADM ALLIANCE NUTRITION, HENDERSON, KY	34	31	91%	264	260	98%	2 Crude Protein 1 Crude Fat, Min 1 Vitamin A
ADM CORN PROCESSING/J ARCHER, DECATUR, IL	6	6	100%	27	27	100%	None
ADM MILLING/MT VERNON, OVERLAND PARK, KS	2	2	100%	7	7	100%	None
ADM PROCESSING/JODY NORTHWAY, DECATUR, IL	5	4	80%	13	12	92%	1 Crude Fiber, Max
AG FIBERS LLC, DOTHAN, AL	1	1	100%	7	7	100%	None
AHC PRODUCTS & PACKAGING INC, WINCHESTER, KY	1	0	0%	4	3	75%	1 Potassium
AINSWORTH PET NUTRITION, MEADVILLE, PA	3	2	67%	40	39	98%	1 AH Fat
ALDI INC, BATAVIA, IL	8	7	88%	93	92	99%	1 AH Fat
ALLTECH, INC., NICHOLASVILLE, KY	1	1	100%	1	1	100%	None
ALPHARMA LLC, MADISON, NJ	9	9	100%	9	9	100%	None
ANDERSON FARM SERVICE, LAWRENCEBURG, KY	2	2	100%	11	11	100%	None
ANTLER ATTACK LLC, CLEARWATER, MN	1	1	100%	1	1	100%	None
ANTLER KING TROPHY PRODUCTS, BLACK RIVER FALLS, WI	2	2	100%	6	6	100%	None
ARCHER DANIEL MIDLAND CO, DECATUR, IL	4	4	100%	14	14	100%	None
ARMADA GRAIN CO, ARMADA, MI	2	2	100%	30	30	100%	None
ARNOLD FEED & SEED, CAMPBELLSVILLE, KY	2	1	50%	16	14	88%	1 Crude Protein 1 Aflatoxin
ASHLAND MILLING COMPANY INC, ASHLAND, KY	2	1	50%	9	8	89%	1 Calcium, Min
ASSOC WHOL GROC/ANN THOMPSON, KANSAS CITY, KS	14	14	100%	160	160	100%	None
AUTHORITY PET FOOD CO, PHOENIX, AZ	15	13	87%	156	154	99%	1 Crude Protein 1 AH Fat
BAGDAD ROLLER MILLS, BAGDAD, KY	16	15	94%	126	125	99%	1 Acid Detergent Fiber
BAKERY FEEDS INC, COLD SPRINGS, KY	5	5	100%	46	46	100%	None
BARDSTOWN MILLS, BARDSTOWN, KY	15	10	67%	100	93	93%	5 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
BARTON BRANDS, LTD., BARDSTOWN, KY	1	0	0%	8	7	88%	1 Fumonisin
BCCH LLC, MAUMELLE, AR	2	0	0%	5	3	60%	2 Crude Protein
BEARS BONE BAKERY, EVANSVILLE, IN	1	1	100%	1	1	100%	None
BELL ROCK GROWER INC, SAN MARCOS, CA	1	0	0%	3	2	67%	1 Crude Protein
BEST FRIENDS FOODS, NATICK, MA	4	4	100%	44	44	100%	None
BIG BARN FARM STORE, GARRISON, KY	3	3	100%	41	41	100%	None
BIG LOTS, SOMERSET, KY	1	1	100%	3	3	100%	None
BIXBI PET, BOULDER, CO	1	0	0%	1	0	0%	1 Crude Protein

Report of Official Feed Samples Analyzed—2012

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BLACK GOLD PET FOODS INC, VIENNA, MO	4	4	100%	53	53	100%	None
BLUE BUFFALO CO LTD, WILTON, CT	17	15	88%	156	153	98%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
BLUE RIDGE NATURALS, MURPHY, NC	1	0	0%	3	1	33%	1 Crude Fat, Min 1 Weight, Net
BLUEGRASS AG DISTRIBUTORS, LANCASTER, KY	3	3	100%	17	17	100%	None
BLUEGRASS SEED, BARDSTOWN, KY	8	5	63%	47	43	91%	2 Crude Protein 1 Copper 1 Zinc
BO DIXIE FARM SUPPLY, OWENTON, KY	1	1	100%	3	3	100%	None
BOBS FEED & FERTILIZER, CROSSVILLE, TN	1	1	100%	18	18	100%	None
BOWLIN FEED INC, ALBANY, KY	1	1	100%	6	6	100%	None
BREEDERS CHOICE PET FOODS INC, IRWINDALE, CA	9	8	89%	107	106	99%	1 Crude Protein
BRODHEAD FARM MART, BRODHEAD, KY	6	4	67%	40	38	95%	1 Crude Protein 1 Iron
BROWN & FORMAN DISTILLERY, LOUISVILLE, KY	1	0	0%	10	9	90%	1 Fumonisin
BRUMFIELD HAY & GRAIN, LEXINGTON, KY	2	0	0%	19	14	74%	1 Calcium, Min 1 Phosphorus, Min 2 Copper 1 Zinc
BUFFALO TRACE DISTILLERY INC, FRANKFORT, KY	2	2	100%	14	14	100%	None
BUNGE MILLING, DANVILLE, IL	1	1	100%	21	21	100%	None
BUNGE NORTH AMERICA (EAST) LLC, MORRISTOWN, IN	9	9	100%	20	20	100%	None
BUNGE NORTH AMERICA INC, CAIRO, IL	52	42	81%	102	92	90%	10 Crude Fiber, Max
BURKMANN FEEDS OF EDMONTON, EDMONTON, KY	6	3	50%	56	53	95%	2 Calcium, Min 1 Lasalocid
BURKMANN FEEDS, BOWLING GREEN, KY	14	6	43%	81	71	88%	3 Crude Protein 1 Crude Fat, Min 5 Calcium, Min 1 Salt, Min
BURKMANN FEEDS, DANVILLE, KY	84	79	94%	677	671	99%	1 Crude Protein 2 Acid Detergent Fiber 1 Calcium, Min 1 Magnesium 1 Selenium
BURKMANN FEEDS, GLASGOW, KY	37	28	76%	243	230	95%	4 Crude Protein 1 Crude Fiber, Max 2 Calcium, Min 1 Phosphorus, Min 1 Salt, Min 1 Zinc 1 Vitamin A 2 Lasalocid
BURKMANN FEEDS, HARNED, KY	3	1	33%	20	17	85%	1 Crude Protein 1 Salt, Min 1 Copper
BURKMANN FEEDS, LONDON, KY	12	11	92%	83	82	99%	1 Calcium, Min
BY PRODUCT FEED BLENDEERS, LEBANON, KY	1	0	0%	9	8	89%	1 Phosphorus, Min
C3 FEED & FARM LLC, BOWLING GREEN, KY	2	2	100%	13	13	100%	None
CALHOUN FEED SERVICE LLC, MADISONVILLE, KY	10	5	50%	78	69	88%	5 Crude Protein 3 Calcium, Min 1 Phosphorus, Min
CALHOUNS FARM & PET, MADISONVILLE, KY	2	2	100%	6	6	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
CANEYVILLE MILLING INC, CANEYVILLE, KY	56	45	80%	261	249	95%	2 Crude Protein 3 Crude Fiber, Max 1 Calcium, Min 1 Salt, Min 3 Aflatoxin 2 Fumonisin
CANIDAE CORPORATION, NORCO, CA	4	4	100%	38	38	100%	None
CARDINAL LABORATORIES INC, AZUSA, CA	1	1	100%	2	2	100%	None
CARGILL - CORN MILLING DIV, DAYTON, OH	4	3	75%	15	14	93%	1 Vomitoxin
CARGILL ANIMAL NUTRITION, MINNEAPOLIS, MN	14	12	86%	132	130	98%	1 AH Fat 1 Vitamin A
CARGILL DRY CORN INGREDIENT, MINNEAPOLIS, MN	1	1	100%	2	2	100%	None
CARGILL DRY CORN INGREDIENTS, PARIS, IL	2	2	100%	10	10	100%	None
CARGILL INCORPORATED, MINNEAPOLIS, MN	8	5	63%	63	60	95%	1 Crude Protein 2 Vomitoxin
CARGILL NUTRENA FEEDS, FLORA, IL	2	2	100%	18	18	100%	None
CARGILL-PROCESSING GROUP, SIDNEY, OH	2	2	100%	4	4	100%	None
CASTOR-POLLUX PET WORKS, AMARILLO, TX	6	6	100%	58	58	100%	None
CENTRAL FARM SUPPLY, LOUISVILLE, KY	12	10	83%	57	54	95%	1 Selenium 2 Vitamin A
CENTRAL FARMERS SUPPLY, GREENSBURG, KY	13	8	62%	100	95	95%	3 Crude Protein 1 Crude Fat, Min 1 Copper
CENTRAL GARDEN & PET, FRANKLIN, WI	1	1	100%	1	1	100%	None
CENTRAL KY TACK, LEXINGTON, KY	2	0	0%	13	7	54%	1 Crude Protein 2 Calcium, Min 1 Phosphorus, Min 1 Copper 1 Zinc
CHAMPION PETFOODS LP, CANADA T5S 2W6	1	1	100%	12	12	100%	None
CHARLEE BEAR FARMS INC, ST FRANCIS, WI	1	1	100%	2	2	100%	None
CHS INC, INVER GROVE HEIGHTS, MN	1	1	100%	5	5	100%	None
CLARKS GROCERY, ROCKHOLDS, KY	1	0	0%	8	6	75%	1 Crude Protein 1 Calcium, Min
CLEMENTS AGRI-SUPPLY INC, SPRINGFIELD, KY	3	3	100%	20	20	100%	None
CLOUD STAR, SAN LUIS OBISPO, CA	1	1	100%	3	3	100%	None
COMMONWEALTH AGRI-ENERGY LLC, HOPKINSVILLE, KY	10	9	90%	66	65	98%	1 Fumonisin
CONSOLIDATED GRAIN & BARGE, MT VERNON, IN	21	21	100%	40	40	100%	None
CONSUMERS SUPPLY DISTRIBUTING, NORTH SIOUX CITY, SD	1	1	100%	12	12	100%	None
COTTONSEED LLC, COURTLAND, AL	2	2	100%	8	8	100%	None
COUNTRY ACRES FEED CO INC, BRENTWOOD, MO	8	8	100%	69	69	100%	None
COX VETERINARY LABORATORY, CHESTER, SC	1	0	0%	9	7	78%	1 Iron 1 Selenium
CPC COMMODITIES LLC, FOUNTAIN RUN, KY	86	67	78%	559	537	96%	2 Crude Protein 2 NPN Equiv Protein 2 Crude Fiber, Max 2 Calcium, Min 4 Salt, Min 4 Copper 1 Iron 1 Magnesium 1 Potassium 1 Zinc 2 Aflatoxin

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
CREEKSIDE FEED & FARM, MARION, KY	10	8	80%	42	40	95%	2 Crude Protein
CROP PRODUCTION SERVICE, CYNTHIANA, KY	2	0	0%	29	26	90%	1 Crude Protein 1 Vitamin A 1 Decoquinat
CSD NUTRITION LLC, NORTH SIOUX CITY, SD	1	1	100%	2	2	100%	None
CUSTOM FEED MILL LLC, MORGANFIELD, KY	6	6	100%	29	29	100%	None
DABNEY FEED & SUPPLY, SOMERSET, KY	1	0	0%	6	4	67%	1 Crude Protein 1 Salt, Min
DAD'S PET CARE INC, MEADVILLE, PA	4	4	100%	40	40	100%	None
DARFORD INDUSTRIES LTD, CANADA V1T 6V2	3	1	33%	8	6	75%	2 Crude Protein
DARLING INTERNATIONAL INC, DES MOINES, IA	1	1	100%	5	5	100%	None
DAY & DAY FEED MILL, COLUMBIA, KY	5	2	40%	46	43	93%	1 Acid Detergent Fiber 1 Phosphorus, Min 1 Zinc
DEL MONTE PET PRODUCTS, PITTSBURGH, PA	20	20	100%	214	214	100%	None
DELTA OIL MILL INC, JONESTOWN, MS	1	1	100%	3	3	100%	None
DIAMOND PET FOODS CO, META, MO	12	11	92%	137	136	99%	1 Crude Protein
DICK VAN PATTEN'S, PACOIMA, CA	13	13	100%	148	148	100%	None
DOGGY DELIRIOUS, MONROE, WA	1	1	100%	3	3	100%	None
DOLGENCORP LLC, GOODLETTSVILLE, TN	13	13	100%	158	158	100%	None
DURVET INC, BLUE SPRINGS, MO	2	2	100%	8	8	100%	None
DZA BRANDS LLC, SALISBURY, NC	11	11	100%	128	128	100%	None
EIGHT IN ONE PET PRODUCTS, BLACKSBURG, VA	2	1	50%	7	5	71%	1 Crude Protein 1 Crude Fat, Min
ELANCO ANIMAL HEALTH, GREENFIELD, IN	3	3	100%	3	3	100%	None
EMMA DOODLES LLC, ATLANTA, GA	1	0	0%	3	1	33%	1 AH Fat 1 Weight, Net
EQUITY GROUP KENTUCKY DIVISION, FRANKLIN, KY	6	5	83%	39	37	95%	1 Aflatoxin 1 Fumonisin
EQUIVENTURE, MAYFIELD, KY	3	2	67%	26	24	92%	1 Crude Protein 1 Zinc
EST LLC, COVINGTON, GA	1	0	0%	5	3	60%	1 Crude Fat, Min 1 Calcium, Min
ETTA SAYS LLC, ST LOUIS, MO	1	1	100%	3	3	100%	None
EVANGERS DOG & CAT FOOD CO INC, WHEELING, IL	2	1	50%	8	7	88%	1 AH Fat
EVOLVED HABITATS, NEW ROADS, LA	6	6	100%	27	27	100%	None
EXCLUSIVELY PET INC, MILWAUKEE, WI	2	1	50%	9	8	89%	1 Moisture
F M BROWN'S SONS INC, SINKING SPRING, PA	5	2	40%	17	14	82%	2 Crude Protein 1 Crude Fiber, Max
F/K/A BLUE SEAL FEEDS INC, MUSCATINE, IA	8	3	38%	86	81	94%	1 Crude Protein 3 AH Fat 1 Ash
FAITHWAY FEED CO INC, GUNTERSVILLE, AL	3	2	67%	38	36	95%	1 Calcium, Min 1 Salt, Min
FARMER'S CHOICE FEED MILL, KIRKSEY, KY	2	1	50%	24	23	96%	1 Calcium, Min
FARMERS FEED MILL, LEXINGTON, KY	14	12	86%	104	102	98%	1 Salt, Min 1 Decoquinat
FARNAM CO INC, PHOENIX, AZ	1	1	100%	2	2	100%	None
FARNAM CO/HORSE PRODUCTS DIV, PHOENIX, AZ	2	2	100%	7	7	100%	None
FEED SOLUTIONS, ST LOUIS, MO	2	2	100%	11	11	100%	None
FEEDERS SUPPLY COMPANY, LOUISVILLE, KY	1	0	0%	2	1	50%	1 Crude Protein
FERTRELL CO, BAINBRIDGE, PA	2	1	50%	23	22	96%	1 Phosphorus, Min
FINISH LINE HORSE PRODUCTS, BENSENVILLE, IL	1	1	100%	10	10	100%	None

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FIVE STAR FEED SERVICE, HOPKINSVILLE, KY	3	2	67%	27	25	93%	1 Potassium 1 Zinc
FORMAX FEEDS, DANVILLE, KY	2	2	100%	11	11	100%	None
FRANK HINTON & SON, FLEMINGSBURG, KY	5	2	40%	31	28	90%	2 Crude Protein 1 Decoquinatate
FREDS INC - CHERRY EVANS, MEMPHIS, TN	12	10	83%	129	126	98%	1 Calcium, Min 1 Phosphorus, Min 1 Zinc
FRESH START GROWERS SUPPLY, LOUISVILLE, KY	1	0	0%	2	1	50%	1 Crude Protein
FROMM FAMILY FOODS LLC, MEQUON, WI	9	7	78%	101	99	98%	1 Crude Protein 1 AH Fat
GATEWAY PRODUCTS INC, HOLLY, CO	1	0	0%	7	6	86%	1 Phosphorus, Min
GAVILON INGREDIENTS LLC, OMAHA, NE	1	0	0%	4	2	50%	1 Crude Fat, Min 1 Calcium, Min
GHC MILLING, FORDSVILLE, KY	10	9	90%	53	52	98%	1 Crude Fat, Min
GLOBAL HARVEST BIRDSEED, SEATTLE, WA	1	1	100%	1	1	100%	None
GLOBALINX PET LLC, NEWPORT BEACH, CA	1	1	100%	3	3	100%	None
GOLD RIVER FEED PRODUCTS, SHELBYVILLE, TN	3	3	100%	35	35	100%	None
GOLDENROD FEEDS LLC, LIBERTY, KY	10	10	100%	47	47	100%	None
GRAHAM FEED CO, TERRE HAUTE, IN	4	4	100%	7	7	100%	None
GRAIN PROCESSING CORPORATION, WASHINGTON, IN	9	9	100%	30	30	100%	None
GRAIN STATES SOYA INC, WEST POINT, NE	1	0	0%	3	2	67%	1 Crude Protein
GRANDMA MAE'S COUNTRY NATURALS, NEW YORK, NY	2	1	50%	26	25	96%	1 Ash
GREEN PLAINS OBION, RIVES, TN	4	4	100%	19	19	100%	None
GREEN RIVER FEED MILL, MORGANTOWN, KY	18	8	44%	126	106	84%	4 Crude Protein 5 Calcium, Min 7 Phosphorus, Min 1 Salt, Min 1 Zinc 2 Aflatoxin
GREENBRIER INTERNATIONAL, CHESAPEAKE, VA	2	2	100%	28	28	100%	None
GREENLEAF COMMODITIES, DANVILLE, KY	2	1	50%	24	23	96%	1 Crude Protein
GREENPOINT AG (5/13), HARDINSBURG, KY	2	1	50%	11	10	91%	1 Crude Protein
GRIFFIN INDUSTRIES INC, BUTLER, KY	1	0	0%	4	3	75%	1 Calcium, Min
GRIFFIN INDUSTRIES INC, COLD SPRINGS, KY	4	3	75%	13	10	77%	1 Crude Fat, Min 1 Calcium, Min 1 Phosphorus, Min
GUTWEIN & CO INC, REYNOLDS, IN	1	1	100%	2	2	100%	None
HALO-PURELY FOR PETS, TAMPA, FL	5	3	60%	46	42	91%	1 Crude Protein 1 AH Fat 1 Calcium, Min 1 Phosphorus, Min
HANSEN MUELLER CO, SANDUSKY, OH	3	3	100%	8	8	100%	None
HAPPY HEN TREATS, BOERNE, TX	1	1	100%	4	4	100%	None
HARDIN COUNTY MILLING CO, ELIZABETHTOWN, KY	1	1	100%	6	6	100%	None
HEALTHY COAT/SA BEEF (4/12), GIBSON, IA	1	1	100%	2	2	100%	None
HERBSMITH INC, HARTLAND, WI	1	0	0%	3	2	67%	1 Crude Protein
HIKARI SALES USA INC, HAYWARD, CA	3	3	100%	10	10	100%	None
HILANDER FEED CO, GEORGETOWN, KY	2	0	0%	21	19	90%	1 Copper 1 Zinc
HILLS PET NUTRITION INC, TOPEKA, KS	10	10	100%	92	92	100%	None
HILL'S PET PRODUCTS INC, BOWLING GREEN, KY	2	2	100%	20	20	100%	None
HI-TEK RATIONS INC, DUBLIN, GA	3	1	33%	25	22	88%	1 Crude Protein 2 AH Fat

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HOOVERS FEED MILL, SCOTTSVILLE, KY	9	9	100%	67	67	100%	None
HOPKINSVILLE ELEVATOR, RUSSELLVILLE, KY	7	7	100%	68	68	100%	None
HORIZON MFG INC/ACCT DEPT, CANADA T2Z 3V7	1	1	100%	12	12	100%	None
HORSE HEALTH PRODUCTS, PHOENIX, AZ	2	1	50%	10	9	90%	1 Potassium
HUBBARD FEEDS INC, HOPKINSVILLE, KY	46	40	87%	388	379	98%	2 Crude Protein 1 Calcium, Min 1 Phosphorus, Min 1 Iron 3 Zinc 1 Copper
HUBBARD FEEDS INC, MANKATO, MN	11	10	91%	132	131	99%	1 Calcium, Min
HUBBARD MILLING CO, BOTKINS, OH	1	1	100%	13	13	100%	None
HYLAND CO INC, ASHLAND, KY	11	10	91%	123	121	98%	1 Calcium, Min 1 Phosphorus, Min
IAMS FOOD COMPANY, MASON, OH	12	11	92%	128	127	99%	1 Crude Fat, Min
IMS PET INDUSTRIES, WOOD RIDGE, NJ	1	1	100%	2	2	100%	None
INGREDIENT RESOURCE CORP, LOUISVILLE, KY	1	1	100%	2	2	100%	None
INGREDION INC, WESTCHESTER, IL	2	2	100%	11	11	100%	None
INTEGRITY FEEDS LLC, HARDIN, KY	5	3	60%	31	29	94%	1 Crude Fat, Min 1 Calcium, Min
INTEGRITY FEEDS LLC, OWENSBORO, KY	2	2	100%	22	22	100%	None
INTEGRITY FEEDS LLC, PARK CITY, KY	15	10	67%	92	86	93%	2 Crude Protein 1 Crude Fat, Min 2 Calcium, Min 1 Chromium
INTER AMERICAN, CINCINNATI, OH	2	2	100%	23	23	100%	None
INTERNATIONAL PET FOODS CO, MIAMI, FL	4	3	75%	24	23	96%	1 Magnesium
INTL PET SUPPLIES/DISTRIBUTING, SAN DIEGO, CA	1	1	100%	2	2	100%	None
ISLE OF DOGS CORPORATION, GERMANTOWN, WI	1	1	100%	3	3	100%	None
J E RONICKER LABS INC, WEST MILTON, OH	1	1	100%	11	11	100%	None
J H FEDDERS INC, COVINGTON, KY	3	3	100%	15	15	100%	None
JABETOWN MILL, EWING, KY	4	3	75%	23	20	87%	1 Crude Fiber, Max 1 Calcium, Min 1 Salt, Min
JACK'S AQUARIUM & PETS, COLD SPRING, KY	2	2	100%	6	6	100%	None
JAKKS PACIFIC INC, MALIBU, CA	1	0	0%	2	1	50%	1 Crude Protein
JBS USA LLC, SOUDERTON, PA	2	2	100%	12	12	100%	None
JEFFRIES FEED SEED & SUPPLY, CAMPBELLSVILLE, KY	3	1	33%	33	31	94%	1 Phosphorus, Min 1 Fumonisin
JIM BEAM BRANDS, BOSTON, KY	1	0	0%	13	12	92%	1 Fumonisin
JIM BEAM BRANDS, CLERMONT, KY	2	2	100%	17	17	100%	None
JOHN EWING COMPANY, LA SALLE, CO	1	1	100%	11	11	100%	None
JOHNSON FEED & SUPPLY, STANFORD, KY	1	1	100%	23	23	100%	None
JOJO'S BEST, EDEN, ID	1	1	100%	3	3	100%	None
JRB FOODS INC, SHARON CENTER, OH	1	1	100%	3	3	100%	None
KALMBACH FEEDS INC, UPPER SANDUSKY, OH	18	13	72%	171	165	96%	1 Salt, Min 4 Selenium 1 Zinc
KAYTEE PRODUCTS INC, CHILTON, WI	2	2	100%	6	6	100%	None
KELLY FOODS CORPORATION, MEDINA, OH	2	2	100%	8	8	100%	None
KENT FEEDS INC, LOGANSPOET, IN	6	6	100%	53	53	100%	None
KENT FEEDS INC, LOUISVILLE, KY	4	2	50%	37	32	86%	1 Phosphorus, Min 2 Magnesium 2 Selenium

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KENT NUTRITION GROUP INC, MUSCATINE, IA	12	12	100%	130	130	100%	None
KENTUCKY EQUINE RESEARCH INC, VERSAILLES, KY	1	1	100%	3	3	100%	None
KENTUCKY NUTRITION SERVICE, LAWRENCEBURG, KY	10	7	70%	99	94	95%	1 Phosphorus, Min 1 Salt, Min 1 Magnesium 1 Potassium 1 Selenium
KEYNES BROTHERS, LOGAN, OH	1	1	100%	5	5	100%	None
KLN ENTERPRISES INC, PERHAM, MN	3	3	100%	33	33	100%	None
K-MART CORPORATION, HOFFMAN ESTATES, IL	11	11	100%	123	123	100%	None
KOCH CHINCHILLA RANCH, CINCINNATI, OH	2	2	100%	9	9	100%	None
KONG COMPANY, GOLDEN, CO	2	1	50%	10	9	90%	1 Ash
KROGER, CINCINNATI, OH	15	14	93%	177	176	99%	1 AH Fat
K-STAR COMMODITIES, HOPKINSVILLE, KY	2	0	0%	17	15	88%	1 NPN Equiv Protein 1 Zinc
LAKE CUMBERLAND FEED/FARM SPLY, RUSSELL SPRINGS, KY	3	3	100%	22	22	100%	None
LAND O'LAKES PURINA FEED LLC, SHOREVIEW, MN	5	4	80%	37	36	97%	1 Selenium
LESTER STUTZMAN FEED MILL, MARION, KY	8	6	75%	45	43	96%	2 Phosphorus, Min
LINCOLNLAND AGRI-ENERGY, PALESTINE, IL	4	2	50%	35	31	89%	2 Aflatoxin 2 Fumonisin
LITTLE EATZ, LOUISVILLE, KY	1	0	0%	3	2	67%	1 Crude Protein
LOUIS DREYFUS CLAYPOOL HOLDING, KANSAS CITY, MO	1	1	100%	6	6	100%	None
LOVING PETS PRODUCTS, CRANBURY, NJ	1	1	100%	3	3	100%	None
LOWES PELLETS & GRAIN INC, GREENSBURG, IN	2	2	100%	13	13	100%	None
LUTTRULL FEED SERVICE, PEMBROKE, KY	7	6	86%	44	43	98%	1 Zinc
M & W MILLING COMPANY INC, COLUMBIA, KY	6	1	17%	34	27	79%	1 Crude Protein 1 Crude Fiber, Max 2 Salt, Min 2 Zinc 1 Aflatoxin
MANNA PRO PRODUCTS, LLC, ST LOUIS, MO	11	10	91%	107	105	98%	1 Iron 1 Vitamin A
MAPLE CREST FARM, MANCHESTER, KY	4	4	100%	38	38	100%	None
MARION FEED MILL INC, MARION, KY	6	3	50%	49	43	88%	1 Crude Protein 1 Salt, Min 2 Copper 2 Zinc
MARS PETCARE US INC, FRANKLIN, TN	15	13	87%	151	149	99%	2 AH Fat
MAR-VO MINERAL CO INC, OSSEO, MI	2	2	100%	21	21	100%	None
MAXIMUM DRAW PRODUCTS (3/13), ARLINGTON, KY	1	0	0%	10	8	80%	1 Iron 1 Magnesium
MAZELIN FEED MILL, SCOTTSVILLE, KY	10	8	80%	72	70	97%	1 Crude Protein 1 Aflatoxin
MCCAULEY BROS INC, VERSAILLES, KY	14	14	100%	109	109	100%	None
MCRAY FEED LLC, HARRODSBURG, KY	9	9	100%	52	52	100%	None
MEIJER INC, GRAND RAPIDS, MI	5	5	100%	55	55	100%	None
MELICK AQUA FEED INC, CATAWISSA, PA	5	4	80%	25	23	92%	1 Crude Protein 1 Crude Fat, Min
MENARD INC, EAU CLAIRE, WI	5	4	80%	22	21	95%	1 Copper
MERRICK INC/CINDY PREUSS, UNION CENTER, WI	1	1	100%	4	4	100%	None
MERRICK PET CARE INC, AMARILLO, TX	18	16	89%	203	201	99%	2 AH Fat
MFS ALLIANCE INC, EDMONTON, KY	11	9	82%	38	36	95%	1 Crude Protein 1 Acid Detergent Fiber

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MGPI OF INDIANA LLC, LAWRENCEBURG, IN	1	1	100%	9	9	100%	None
MID AMERICA PET FOOD LLC, MT PLEASANT, TX	1	1	100%	11	11	100%	None
MID-SOUTH MILLING CO, MEMPHIS, TN	5	5	100%	21	21	100%	None
MID-STATES DISTRIBUTING CO, ST. PAUL, MN	4	4	100%	37	37	100%	None
MIDWESTERN PET FOODS INC, EVANSVILLE, IN	15	14	93%	112	111	99%	1 Ash
MILK PRODUCTS, CHILTON, WI	3	2	67%	57	56	98%	1 Chlortetracycline
MILK SPECIALTIES GLOBAL, EDEN PRAIRIE, MN	2	2	100%	14	14	100%	None
MISSISSIPPI LIME CO, ST LOUIS, MO	2	2	100%	2	2	100%	None
MIXON FARMS INC, WAYCORSS, GA	2	2	100%	4	4	100%	None
MONNIG BROTHERS, IRONTON, OH	1	1	100%	13	13	100%	None
MOST VALUABLE PETS, LEXINGTON, KY	1	0	0%	3	2	67%	1 Crude Protein
MOUNTAIN COUNTRY FOODS, OKEENE, OK	1	1	100%	5	5	100%	None
MOYER & SON INC, SOUDERTON, PA	2	2	100%	5	5	100%	None
MRS PASTURES COOKIES FOR HORSE, WALNUT CREEK, CA	1	1	100%	4	4	100%	None
NATURA PET PRODUCTS, FREMONT, NE	19	15	79%	199	194	97%	2 Crude Protein 2 Calcium, Min 1 Phosphorus, Min
NATURAL LIFE PET PRODUCTS, PITTSBURG, KS	1	1	100%	11	11	100%	None
NATURAL POLYMER INTL CORP, PLANO, TX	1	1	100%	3	3	100%	None
NATURE ZONE, CHICO, CA	1	0	0%	2	1	50%	1 Crude Protein
NATURES ANIMALS INC, MAMARONECK, NY	2	2	100%	5	5	100%	None
NATURES LOGIC, LINCOLN, NE	1	1	100%	13	13	100%	None
NATURES RECIPE PET FOODS, PITTSBURGH, PA	4	3	75%	45	44	98%	1 Calcium, Min
NATURES VARIETY, LINCOLN, NE	3	2	67%	38	37	97%	1 Calcium, Min
NEOGEN CORP, LEXINGTON, KY	1	1	100%	4	4	100%	None
NESTLE PURINA PETCARE CO, ST LOUIS, MO	31	29	94%	255	253	99%	1 Crude Protein 1 AH Fat
NEW ENERGY CORP (2/13), SOUTH BEND, IN	3	3	100%	19	19	100%	None
NEWMANS OWN ORGANICS, APTOS, CA	1	1	100%	11	11	100%	None
NORTH AMERICAN SALT CO, OVERLAND PARK, KS	2	2	100%	12	12	100%	None
NUMMY TUM TUM, CORVALLIS, OR	1	0	0%	2	1	50%	1 Crude Protein
NUNN MILLING COMPANY INC, EVANSVILLE, IN	7	5	71%	26	24	92%	2 Crude Protein
NUTRA BLEND CORP, NEOSHO, MO	2	2	100%	2	2	100%	None
NUTRENA, MINNEAPOLIS, MN	7	7	100%	77	77	100%	None
NUTRI-VET LLC, BOISE, ID	1	1	100%	2	2	100%	None
NUTRO PRODUCTS INC, FRANKLIN, TN	4	4	100%	38	38	100%	None
NYLABONE PRODUCTS, NEPTUNE, NJ	1	1	100%	2	2	100%	None
ODOM'S LIVESTOCK SUPPLY, MAYFIELD, KY	7	7	100%	56	56	100%	None
OMEGA FIELDS INC, NEWTON, WI	1	0	0%	10	8	80%	1 Crude Fat, Min 1 Calcium, Min
OMEGA SEA LTD, PAINESVILLE, OH	2	2	100%	8	8	100%	None
ORGANIC UNLIMITED, ATGLEN, PA	1	0	0%	11	7	64%	1 Crude Protein 1 Salt, Min 1 Selenium 1 Vitamin A
ORGANIC VALLEY/CROPP COOP, LAFARGE, WI	1	1	100%	6	6	100%	None
ORSCHELN FARM & HOME, MOBERLY, MO	5	4	80%	48	46	96%	1 Crude Protein 1 Calcium, Min
OVERBY FARM LLC, TEMECULA, CA	1	1	100%	5	5	100%	None
OVERTON-PICKETT FARMERS COOP, LIVINGSTON, TN	5	5	100%	24	24	100%	None
OWENSBORO GRAIN CO INC, OWENSBORO, KY	40	31	78%	84	75	89%	9 Crude Fiber, Max
OXBOW ENTERPRISES, MURDOCK, NE	1	0	0%	8	7	88%	1 Crude Fiber, Max
PACIFIC COAST DISTRIBUTING, PHOENIX, AZ	10	10	100%	109	109	100%	None

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PAMIDA STORES OPERATING CO LLC, OMAHA, NE	3	3	100%	7	7	100%	None
PENNFIELD ANIMAL HEALTH, OMAHA, NE	3	3	100%	3	3	100%	None
PERDUE AGSOLUTIONS/BINGHAMPTON, SALISBURY, MD	3	1	33%	15	13	87%	2 Acid Detergent Fiber
PERDUE FARMS INC, LIVERMORE, KY	11	11	100%	137	137	100%	None
PERFORMANCE FEED & GRAIN, MONTICELLO, KY	2	2	100%	14	14	100%	None
PERFORMANCE FEEDS, RED BOILING SPGS, TN	17	13	76%	119	114	96%	1 Crude Protein 2 Calcium, Min 1 Zinc 1 Vomitoxin
PET BRANDS, COLUMBUS, OH	1	1	100%	2	2	100%	None
PET KING, JAMAICA, NY	1	1	100%	2	2	100%	None
PET-AG INC, HAMPSHIRE, IL	1	1	100%	8	8	100%	None
PETCO, BOWLING GREEN, KY	1	0	0%	3	2	67%	1 Crude Protein
PETCUREAN PET NUTRITION, CANADA V2R 5M3	3	3	100%	35	35	100%	None
PETGUARD INC, GREEN COVE SPGS, FL	2	1	50%	22	21	95%	1 Crude Protein
PETROPICS LLC, CARLSBORG, WA	2	2	100%	22	22	100%	None
PETS GLOBAL INC, NORTH HOLLYWOOD, CA	2	2	100%	25	25	100%	None
PFIZER INC, MADISON, NJ	1	0	0%	8	6	75%	1 Salt, Min 1 Magnesium
PMI NUTRITION INC, BRENTWOOD, MO	3	2	67%	29	28	97%	1 Phosphorus, Min
POET NUTRITION INC, SIOUX FALLS, SD	5	4	80%	35	34	97%	1 Aflatoxin
PRECISE PET PRODUCTS, NACOGDOCHES, TX	1	1	100%	14	14	100%	None
PRECISION PET PRODUCTS INC, REDLANDS, CA	1	1	100%	1	1	100%	None
PREMIER FEED COMPANY, SABINA, OH	1	0	0%	11	9	82%	1 Crude Fat, Min 1 Acid Detergent Fiber
PREMIUM NUTRITIONAL PRODUCTS, MISSION, KS	1	1	100%	3	3	100%	None
PRETTY BIRD INTL INC, STACY, MN	1	1	100%	2	2	100%	None
PREWITTS FEED & FARM SUPPLY, WILLIAMSBURG, KY	2	2	100%	7	7	100%	None
PRIMAL PET FOODS INC, SAN MATEO, CA	3	3	100%	14	14	100%	None
PRIMOS HUNTING CALLS, FLORA, MS	4	4	100%	16	16	100%	None
PRODUCER FEEDS, LOUISVILLE, KY	19	17	89%	147	145	99%	1 Crude Protein 1 Vitamin A
PROFESSIONAL PET CO, META, MO	5	5	100%	57	57	100%	None
PROGRESSIVE NUTRITION, BROOKVILLE, OH	4	2	50%	41	36	88%	1 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max 1 Calcium, Min 1 Vitamin A
PRO-PET LLC, ST MARYS, OH	7	6	86%	82	81	99%	1 AH Fat
PROVIMI NORTH AMERICA INC, BROOKVILLE, OH	2	2	100%	5	5	100%	None
PURINA MILLS INC, FRANKFORT, IN	3	3	100%	27	27	100%	None
PURINA MILLS INC, MILFORD, IN	2	1	50%	21	20	95%	1 Chlortetracycline
PURINA MILLS INC, NASHVILLE, TN	45	42	93%	346	343	99%	1 NPN Equiv Protein 1 Crude Fiber, Max 1 Selenium
PURINA MILLS INC, RICHMOND, IN	1	1	100%	6	6	100%	None
PURINA MILLS INC, ST. LOUIS, MO	16	14	88%	145	143	99%	1 Zinc 1 Chlortetracycline
PURINA MILLS INC, VANDALIA, IL	2	2	100%	18	18	100%	None
PURINA MILLS, EVANSVILLE, IN	2	2	100%	23	23	100%	None
RAGLAND MILLS INC, NEOSHO, MO	1	1	100%	12	12	100%	None
RED A FEEDS, MANKATO, MN	2	2	100%	16	16	100%	None
REDBARN PET PRODUCTS INC, LONG BEACH, CA	2	2	100%	3	3	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
RENAISSANCE NUTRITION INC, ROARING SPRING, PA	3	1	33%	37	35	95%	2 Selenium
REPASHY VENTURES INC, LA JOLLA, CA	1	1	100%	7	7	100%	None
RESOLVE SUSTAINABLE SOLUTIONS, FORT DODGE, IA	2	1	50%	18	17	94%	1 Crude Protein
RIDLEY BLOCK OPERATIONS, FLEMINGSBURG, KY	9	7	78%	82	79	96%	1 Salt, Min 1 Crude Protein 1 Selenium
RIDLEY BLOCK OPERATIONS, MANKATO, MN	4	3	75%	41	40	98%	1 Vitamin A
RIDLEY FEED INGREDIENT MENDOTA, MENDOTA, IL	1	1	100%	1	1	100%	None
RIDLEY NUTRITION SOLUTIONS, MANKATO, MN	2	2	100%	12	12	100%	None
RIP'S FARM CENTER, TOLLESBORO, KY	9	6	67%	45	41	91%	2 Crude Protein 1 Aflatoxin 1 Crude Fat, Min
RIVER VALLEY ANIMAL FOODS, ROBARDS, KY	4	4	100%	23	23	100%	None
ROLF C. HAGEN (USA) CORP, MANSFIELD, MA	5	2	40%	34	29	85%	1 Crude Protein 1 Crude Fat, Min 2 Calcium, Min 1 Salt, Min
ROSE ACRE FARMS INC, SEYMOUR, IN	6	6	100%	10	10	100%	None
ROYAL CANIN USA INC, ST CHARLES, MO	7	7	100%	79	79	100%	None
RUDY GREEN VENTURES, LOUISVILLE, KY	2	2	100%	4	4	100%	None
RUDYS FARM CENTER, KEVIL, KY	5	5	100%	22	22	100%	None
RURAL KING, MATTOON, IL	2	1	50%	22	20	91%	1 Crude Fat, Min 1 Vitamin A
RUSSELL CO FARM STORE, RUSSELL SPRINGS, KY	4	3	75%	36	35	97%	1 Selenium
S & M NUTEC LLC, KANSAS CITY, MO	2	2	100%	8	8	100%	None
SS BOWLING GREEN, BOWLING GREEN, KY	1	1	100%	4	4	100%	None
SS BRECK, HARDINSBURG, KY	3	3	100%	16	16	100%	None
SS CAMPBELL COOP, ALEXANDRIA, KY	1	1	100%	1	1	100%	None
SS COOP INC - FEED DIV, WINCHESTER, KY	77	62	81%	548	529	97%	8 Crude Protein 1 Crude Fat, Min 3 Calcium, Min 1 Copper 4 Potassium 1 Selenium 1 Lasalocid
SS COOP INC, RICHMOND, VA	10	10	100%	84	84	100%	None
SS DANVILLE, DANVILLE, KY	2	1	50%	7	6	86%	1 Crude Fat, Min
SS FLEMINGSBURG, FLEMINGSBURG, KY	4	4	100%	36	36	100%	None
SS HOPKINSVILLE, HOPKINSVILLE, KY	4	3	75%	33	32	97%	1 Crude Protein
SS LEITCHFIELD, LEITCHFIELD, KY	5	5	100%	42	42	100%	None
SS LONDON, LONDON, KY	8	7	88%	64	63	98%	1 Salt, Min
SS OWENSBORO, OWENSBORO, KY	2	2	100%	10	10	100%	None
SS OWENTON, OWENTON, KY	1	1	100%	4	4	100%	None
SS OWINGSVILLE SVC, OWINGSVILLE, KY	1	1	100%	4	4	100%	None
SS OWINGSVL CARLISLE SERVICE, CARLISLE, KY	1	0	0%	23	21	91%	1 Fumonisin 1 Vomitoxin
SS SOMERSET, SOMERSET, KY	2	1	50%	22	21	95%	1 Fumonisin
S. S. COOP INC, PARK CITY, KY	1	0	0%	9	8	89%	1 Crude Fat, Min
SAMS WEST INC, BENTONVILLE, AR	4	4	100%	45	45	100%	None
SAN FRANCISCO BAY BRAND INC, NEWARK, CA	1	1	100%	3	3	100%	None
SAVE-A-LOT LTD, EARTH CITY, MO	12	12	100%	141	141	100%	None
SCHELL & KAMPETER INC, META, MO	2	2	100%	28	28	100%	None

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
SCIENCE HILL MILLING CO, SCIENCE HILL, KY	13	12	92%	81	77	95%	1 Crude Protein 1 Crude Fat, Min 1 Phosphorus, Min 1 Zinc
SEEDS INC/SHANE YOUNG, MEMPHIS, TN	1	0	0%	16	14	88%	1 Calcium, Min 1 Phosphorus, Min
SEMO MILLING, SCOTT CITY, MO	2	2	100%	11	11	100%	None
SEVENTY FEEDS LLC, EUBANK, KY	12	11	92%	84	83	99%	1 Copper
SHUCKS FENCE CO, SHELBYVILLE, KY	2	2	100%	17	17	100%	None
SIEMER ENTERPRISES INC, TEUTOPOLIS, IL	1	1	100%	2	2	100%	None
SIEMER MILLING COMPANY, HOPKINSVILLE, KY	5	5	100%	19	19	100%	None
SIERRA PET PRODUCTS LLC, WILTON, CT	1	1	100%	12	12	100%	None
SIMMONS PET FOOD INC, PENNSAUKEN, NJ	3	3	100%	33	33	100%	None
SIMPLY NOURISH PET FOOD CO, PHOENIX, AZ	18	13	72%	215	208	97%	1 Crude Protein 2 Copper 2 Iron 2 Sodium
SLIGO FEED MILL, PENDLETON, KY	1	1	100%	6	6	100%	None
SOJOS INC, MINNEAPOLIS, MN	1	1	100%	5	5	100%	None
SOLID GOLD HEALTH PRODUCTS, EL CAJON, CA	10	10	100%	108	108	100%	None
SOULISTIC, NATICK, MA	4	2	50%	44	40	91%	2 Crude Protein 1 Potassium 1 Sodium
SOURCE INC, N BRANFORD, CT	1	1	100%	1	1	100%	None
SOUTH UNION ELEVATOR, AUBURN, KY	5	5	100%	59	59	100%	None
SOUTHEASTERN MINERALS INC, BAINBRIDGE, GA	5	5	100%	20	20	100%	None
SOUTHEASTERN WHOLESALERS INC, BARBOURVILLE, KY	2	2	100%	5	5	100%	None
SOUTHERN COTTON OIL CO, DECATUR, IL	1	1	100%	3	3	100%	None
SOUTHERN STATES COOP INC, RICHMOND, VA	8	5	63%	64	61	95%	3 Crude Protein
SOY INC/DBA HEALTHY COAT, GIBSON, IA	1	1	100%	2	2	100%	None
SPECIALTY FEEDS INC, MEMPHIS, TN	2	2	100%	7	7	100%	None
SPLINTEK, KANSAS CITY, MO	1	1	100%	6	6	100%	None
SPORTFORCE LLC, LEXINGTON, KY	1	0	0%	2	1	50%	1 Weight, Net
SSCINC-KENTUCKIANA SV, EMINENCE, KY	4	4	100%	14	14	100%	None
STAR MARK PET PRODUCTS INC, HUTTO, TX	1	1	100%	1	1	100%	None
STELLA & CHEWY'S LLC, MILWAUKEE, WI	1	1	100%	12	12	100%	None
STEWARTS FARM SUPPLY, BROOKSVILLE, KY	1	0	0%	8	6	75%	1 Crude Protein 1 Phosphorus, Min
STOCKADE BRANDS INC, PITTSBURG, KS	5	3	60%	43	39	91%	1 Phosphorus, Min 1 Copper 1 Selenium 1 Zinc
STUD MUFFINS, CANADA V3A 6E1, 00	1	0	0%	4	1	25%	1 Crude Protein 1 AH Fat 1 Copper
SUNSHINE MILLS INC, RED BAY, AL	16	8	50%	170	160	94%	1 Crude Fat, Min 1 AH Fat 3 Calcium, Min 1 Potassium 1 Sodium 1 Zinc 2 Ash
SUNSHINE PET TREATS INC, RED BAY, AL	2	2	100%	14	14	100%	None

Report of Official Feed Samples Analyzed—2012

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
SUPERIOR AG/, JASPER, IN	14	12	86%	127	124	98%	1 Crude Protein 1 Salt, Min 1 Zinc
SUPERVALU INC, EDEN PRAIRIE, MN	3	3	100%	35	35	100%	None
SWARTZ AG LLC, MONTEZUMA, GA	2	2	100%	11	11	100%	None
T & H FEED SERVICE, LEBANON, KY	4	4	100%	30	30	100%	None
TAPPS FEED & FARM SUPPLY, SHELBYVILLE, KY	9	5	56%	58	54	93%	3 Crude Protein 1 Crude Fat, Min
TARGET CORPORATION, MINNEAPOLIS, MN	9	7	78%	92	90	98%	1 AH Fat 1 Copper
TASTE OF THE WILD, META, MO	5	5	100%	57	57	100%	None
TEDS FEED STORE, MIDDLESBORO, KY	4	3	75%	27	26	96%	1 Crude Protein
TENNESSEE FARMERS COOPERATIVE, LAVERGNE, TN	35	30	86%	320	313	98%	1 Salt, Min 1 Cobalt 1 Copper 1 Magnesium 2 Vitamin A 1 Lasalocid
THE GOODLIFE RECIPE PETCARE CO, FRANKLIN, TN	4	4	100%	39	39	100%	None
THREE DOG BAKERY INC, KANSAS CITY, MO	8	7	88%	64	63	98%	1 AH Fat
TRACTOR SUPPLY COMPANY, BRENTWOOD, TN	25	22	88%	213	210	99%	1 Crude Protein 1 AH Fat 1 Copper
TRADER JOE'S, MONROVIA, CA	4	4	100%	43	43	100%	None
TRI STATE PACKAGING CO, VAN WERT, OH	2	2	100%	9	9	100%	None
TRI-COUNTY FEEDS, LIBERTY, KY	8	6	75%	67	61	91%	2 Crude Protein 2 Phosphorus, Min 2 Copper
TRI-COUNTY FERTILIZER, RICHMOND, KY	5	4	80%	27	26	96%	1 Crude Fat, Min
TRIMBLE CO FARM SUPPLY, MILTON, KY	1	0	0%	7	5	71%	1 Crude Protein 1 Copper
TRIPLE CROWN NUTRITION INC, WAYZATA, MN	1	1	100%	10	10	100%	None
TROUW NUTRITION USA, HIGHLAND, IL	1	1	100%	8	8	100%	None
TWO RIVERS INC, DRAKESBORO, KY	4	3	75%	22	21	95%	1 Copper
TYSON FOODS FEED MILL, ROBARDS, KY	13	9	69%	138	132	96%	3 Aflatoxin 3 Fumonisin
TYSON FRESH MEATS INC, DAKOTA DUNES, SD	1	1	100%	4	4	100%	None
UNCLE JIMMYS BRAND PRODUCT LLC, NEW CASTLE, PA	1	1	100%	6	6	100%	None
UNITED LIVESTOCK COMMODITIES, MAYFIELD, KY	9	6	67%	36	29	81%	2 Crude Protein 1 Crude Fat, Min 2 Calcium, Min 2 Potassium
UNITED SALT CORP/KATHY DUBIEL, HOUSTON, TX	1	1	100%	8	8	100%	None
VALERO MARKETING & SUPPLY CO, SAN ANTONIO, TX	1	1	100%	5	5	100%	None
VARIETY PET FOODS, ENGLEWOOD, CO	3	3	100%	33	33	100%	None
VERSAILLES FARM & GARDEN SUP, VERSAILLES, KY	1	1	100%	7	7	100%	None
VET-A-MIX INC, SHENANDOAH, IA	1	1	100%	3	3	100%	None
VETERINARY PRESCRIPTION FEEDS, HICKORY, KY	1	0	0%	16	15	94%	1 Calcium, Min
VETS CHOICE, DEER PARK, NY	6	3	50%	54	51	94%	1 Crude Protein 1 AH Fat 1 Ash
VETSCIENCE LLC, DALLAS, TX	2	1	50%	5	4	80%	1 Crude Protein
VITAKRAFT SUN SEED CO INC, BOWLING GREEN, OH	8	8	100%	43	43	100%	None
WAGGERS PET PRODUCTS, CANADA T3G 5G6	2	2	100%	7	7	100%	None

Report of Official Feed Samples Analyzed—2012

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
WAGGIN TRAIN LLC, ST LOUIS, MO	9	9	100%	28	28	100%	None
WAKE FEEDS (1/13), WILLOW SPRINGS, MO	1	1	100%	22	22	100%	None
WALGREEN CO, DEERFIELD, IL	2	2	100%	26	26	100%	None
WAL-MART STORES INC, BENTONVILLE, AR	18	17	94%	169	168	99%	1 Crude Protein
WATSON CATTLE NUTRITION, BOWLING GREEN, KY	1	1	100%	9	9	100%	None
WELL PET LLC/MEGAN KOSKY, TEWKSBURY, MA	10	7	70%	92	89	97%	3 AH Fat
WERUVA INTERNATIONAL INC, NATICK, MA	1	0	0%	11	9	82%	1 Potassium 1 Sodium
WESTWAY FEED PRODUCTS LLC, TOMBALL, TX	1	0	0%	3	2	67%	1 Crude Protein
WET NOSES NATURAL DOG TREAT CO, MONROE, WA	1	1	100%	3	3	100%	None
WHITETAIL INSTITUTE/N AMERICA, PINTLALA, AL	1	1	100%	6	6	100%	None
WHOLE FOODS MARKET, AUSTIN, TX	9	8	89%	92	91	99%	1 AH Fat
WILD BIRD CENTERS OF AMERICA, GLEN ECHO, MD	1	0	0%	3	1	33%	1 Crude Protein 1 Crude Fat, Min
WILDGAME INNOVATIONS LLC, BROUSSARD, LA	3	3	100%	12	12	100%	None
WILLARD MILLING, INC, WILLARD, KY	18	14	78%	123	119	97%	1 Crude Fat, Min 3 AH Fat
WINCHESTER FEED & SUPPLY INC, WINCHESTER, KY	7	4	57%	57	54	95%	2 Crude Protein 1 Calcium, Min
WITTE FEEDS INC, DALE, IN	1	1	100%	6	6	100%	None
WOODFORD FEED CO, VERSAILLES, KY	9	7	78%	56	54	96%	1 Zinc 1 Vomitoxin
WOODYS PERFORMANCE HORSE FEED, DICKINSON, ND	2	2	100%	12	12	100%	None
YODERS FEED & SUPPLY, RUSSELLVILLE, KY	18	13	72%	142	135	95%	3 Crude Protein 2 Calcium, Min 1 Phosphorus, Min 1 Salt, Min
ZOO MED LABORATORIES, INC., SAN LUIS OBISPO, CA	1	1	100%	7	7	100%	None
ZUKE'S, DURANGO, CO	2	1	50%	5	4	80%	1 Crude Protein
	2,577						

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%	Chlortetracycline	-30%	+30%
NPN Equiv. Protein	-50%	+20%	Coumaphos	-20%	+20%
Lysine	-20%	+200%	Decoquinatone	-20%	+20%
Crude Fat	-20%	+5 units	Dichlorvos	-20%	+30%
Acid Hydrolyzed Fat	-20%	+5 units	Fenbendazole	-25%	+25%
Crude Fiber	-60%	+15%	Hygromycin B	-25%	+20%
Acid Detergent Fiber	-60%	+15%	Lasalocid	-25%	+25%
Ash		+5%	Lincomycin	-25%	+35%
Calcium	-15%	+2 units	Melengestrol Aceate	-30%	+35%
Phosphorus	-15%	+2 units	Methoprene	-30%	+30%
Salt	-40%	+40%	Monensin	-30%	+30%
Cobalt	-40%	+200%	Oxytetracycline	-30%	+30%
Copper	-40%	+200%	Penicillin	-35%	+35%
Iodine	-40%	+200%	Pyrantel Tartrate	-25%	+25%
Iron	-40%	+200%	Rabon	-25%	+30%
Magnesium	-40%	+200%	Roxarsone	-25%	+25%
Manganese	-40%	+200%	Sulfamethazine	-20%	+20%
Molybdenum	-40%	+100%	Sulfaquinoxaline	-25%	+25%
Potassium	-30%	+200%	Sulfathiazole	-20%	+20%
Selenium	-40%	+40%	Thiabendazole	-30%	+30%
Sodium	-30%	+130%	Tylosin	-30%	+30%
Zinc	-40%	+200%	Virginiamycin	-40%	+40%
Amprolium	-40%	+20%	Zoalene	-25%	+25%
Apramycin	-20%	+20%	Moisture		+12%
Arsanilic Acid	-20%	+20%	Sodium Bicarbonate	-30%	+30%
Bacitracin	-40%	+40%	Invert Sugar	-10%	
Bambermycin	-30%	+30%	Vitamin A	-30%	+200%
Carbadox	-20%	+20%	Net wt. (small pkg.)	-5%	

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

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