

Regulatory Bulletin 311

2009 COMMERCIAL FEEDS IN KENTUCKY



REGULATORY SERVICES

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KENTUCKY COMMERCIAL FEED LAW

KRS 250.491 TO 250.631

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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 2009 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.

Introduction

The Kentucky Commercial Feed Law of 1972 (KRS 250.491 to 250.631) provides protection for the state's feed manufacturers, the livestock and poultry industry, pet owners, and other purchasers of feeds. The feed law regulates any material offered for sale as feed or for mixing into a feed. However, whole and unprocessed commodities, raw meat, hay, straw, stover, silage, cobs, husks and hulls, when unground and not mixed with other material are exempt. Regulated products can include any product that is provided for consumption by any living animal that provides nutrients and/or energy for growth, development, reproduction or maintenance like pet foods, companion animal treats, livestock minerals, complete animal and poultry feeds, protein blocks, supplements, feed ingredients, and other premixes used for further manufacture of feed.

The information in this report will inform the feed purchaser, provide an atmosphere for fair and equitable competition, and assist in assuring the safety of animal and human food. Generally, before products are distributed in Kentucky they require a review of the label that includes guarantees, a list of ingredients, feeding directions, and absence of any false or misleading claims. Feeds containing medications undergo review for approved drug claims, dosage and usage, statement of purpose, any required warning or caution statements, and special feeding instructions. Currently, there are about 13,000 products registered for distribution in Kentucky.

Verification of good manufacturing practices (GMP's) and evaluations for cleanliness and housekeeping are handled with feed mill inspections. A major aspect is to prevent passing on to animals any unsafe, contaminated or adulterated feeds that could enter the human food chain. These inspections also check on confirmation to US FDA regulations for handling, storing and mixing drugs.

Inspection and Sampling

Tables 1 through 3 provide information on the number and type of feed ingredients and products sampled for the last 3 years.

Feed Mill Inspections

The medicated feed mill program currently has two classifications. Mills that mix Category II Type A medicated feed articles must be licensed with FDA, and mills that mix drugs commonly are exempt and do not require a FDA license. Most mills in Kentucky mix only exempt drugs. However, all feed mills must comply with good manufacturing practices (GMP). Inspections for this purpose help ensure approved drug levels, proper mixing procedures, feed ingredient monitoring, good recordkeeping, and good housekeeping protocols, which insures safe feeds for animals in the human food chain.

BSE Rule Inspections

The Division participated in a program to conduct 75 inspections that followed FDA guidelines and rules to ensure compliance with the BSE Rule. These rules are in place to prevent the establishment and amplification of Bovine Spongiform Encephalopathy (BSE), sometime referred to as "Mad Cow Disease". The rules and regulations prohibit feeding certain meat derived proteins to ruminant animals. Feed mills that receive prohibited ma-

Table 1. Number of feed ingredients sampled.

Type	2009	2008	2007
Alfalfa Products	0	2	7
Animal Products	28	19	39
Barley Products	8	0	0
Corn Products	145	93	144
Cottonseed Products	8	16	16
Distillers Products	72	73	79
Mineral Ingredients	9	13	14
Molasses Products	4	5	3
Oat Products	9	3	8
Rice Products	1	2	7
Soybean Products	166	220	266
Wheat Products	14	13	11
Other	9	10	7
Total	473	469	601

materials must utilize adequate procedures to prevent any chance of those materials getting into feeds for ruminants. All feeds that may contain prohibited material must bear the cautionary statement, "Do not feed to cattle or other ruminants."

Food Safety

Keeping feeds free of contamination concerns feed manufacturers and regulatory officials because of the potential impact of contamination on the Kentucky livestock industry and the potential carryover to human food. The ultimate goal is prevention. Feed industry personnel involved in receiving ingredients, manufacturing feeds, and distributing feeds are very important in maintaining a safe feed supply. Occurrences that need attention may be abnormal appearance of the feed, an unusual feed odor, or presence of foreign material. Immediate attention and investigation is warranted with multiple livestock sickness or deaths and when chemical leaks occur. Regulatory Service inspectors and laboratory staff are available to assist with any investigation of suspected problems. Frequent inspections, product sampling and analysis, label reviews, drug testing, mycotoxin testing, feed microscopy, and GMP activities support efforts to maintain a safe food supply.

During 2009, mycotoxins (vomitoxin) in barley, oats and wheat, and the resulting feeds were a concern as fungal diseases were more prevalent. The period of corn harvest for the 2009 crop was wetter than normal resulting in increased levels of fumonisin in 26 of 46 grain samples taken across the state.

Testing and Product Suitability

The feed laboratory provides the primary analyses of the nutrients and other components in feed samples obtained by the inspection staff. Data from the laboratory is used to evaluate suitability of product labeling, and absence of either adulterants or deleterious substances. Table 4 lists the number of various analyses reported.

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

Species/Type	2009	2008	2007
Poultry	138	154	137
Beef	224	334	368
Dairy	59	90	112
Swine	119	161	160
Sheep	2	21	11
Rabbit	27	31	33
Calf	43	68	60
Horse	200	369	274
Goat	38	60	59
Scratch & Gamebird	34	62	80
Fish Food	13	18	15
Custom Mix	86	120	171
Liquid	4	5	4
Blocks	26	38	25
Minerals	166	243	320
Drugs	11	12	19
Vitamins	9	6	7
Microbials	3	3	5
Other	138	265	201
Total	1,340	2,060	2,061

Table 3. Number of specialty feeds sampled.

Type	2009	2008	2007
Dry Dog Food	150	184	185
Soft-Moist Dog Foods	2	0	0
Canned Dog Foods	134	105	144
Dry Cat Foods	64	72	70
Canned Cat Foods	99	104	101
Specialty Dog & Cat Products	106	128	206
Specialty Pet Products	27	26	29
Aquarium Fish Foods	29	28	33
Specialty Bird Feeds	38	40	48
Total	649	687	816

Data from the laboratory analysis are also compared to information from the National Research Council (NRC), the Association of Feed Control Officials (AAFCO), and University of Kentucky researchers as a basis for evaluating nutritional suitability for the intended use of a feed. Labels on dog and cat foods must include a nutritional adequacy statement based on the AAFCO nutrient profile.

Table 4. Number of official feed analyses reported.

Analysis	2009	2008	2007	
Proximate	Crude Protein	2,202	2,796	3,204
	NPN Equivalent Protein (urea)	36	48	106
	Lysine	4	406	410
	Crude Fat	575	770	579
	Acid Hydrolysis Fat	586	577	182
	Crude Fiber	750	732	1,119
	Acid Detergent Fiber	150	101	297
	Sugar, Invert	0	0	0
	Ash	218	206	185
	Moisture	603	711	660
	Minerals	Aluminum	0	2
Calcium		1,634	2,016	2,480
Cobalt		145	254	297
Copper		837	1,071	1,262
Fluorine		1		
Iodine		1		
Iron		362	412	291
Magnesium		622	769	905
Manganese		492	635	738
Molybdenum		6	15	0
Phosphorus		1,605	2,032	2,560
Potassium		855	1,095	1,482
Salt		921	1,016	1,332
Selenium		127	4	0
Sodium	329	436	61	
Sulfur	3			
Zinc	958	1,265	1,548	
Vitamins	Vitamin A	353	378	477
	Vitamin D	3		
	Vitamin E	2	1	
Drugs	Amprolium	3	0	0
	Apramycin	1		
	Bacitracin	9	17	14
	Carbadox	5	2	2
	Chlortetracycline	104	94	161
	Decoquinat	1	5	0
	Lasolocid	1	0	0
	Lincomycin	1	0	1
	Monensin	52	59	84
	Oxytetracycline	11	10	26
	Penicillin	1	2	
	Sulfamthazine	1		
	Tylosin	7	9	9
	Virginiamycin	1		
Zoalene	0	0	0	
Mycotoxins	Aflatoxin	198	167	321
	Fumonisin	180	153	317
	Vomitoxin	99	31	65
Other	L. Acidophilus Bacteria	2	1	0
	Lactic Acid Bacteria	0	0	0
	Urease Activity	1		
	Yeast Count	2	1	5
	Ingredient Listing	32	46	119
Net Weight	548	573	580	
Total	15,640	18,918	21,879	

Feed Labeling

A feed label is the fundamental communication with the consumer; it provides information, protection and the regulatory foundation. Providing labeling assistance and guidance to product registrants and manufacturers has been beneficial in promoting safety and usefulness of feeds for livestock and companion animals. A full-time registration specialist reviews product labels for compliance

with applicable Kentucky and federal laws and regulations. The inspection staff often assists local feed manufacturers with labeling, resulting in more uniform and informative labels. Spreadsheets are available to assist in establishing label guarantees and for estimating nutritional suitability of some custom mixed feeds. These services provide strength for an excellent working relationship with the feed industry in Kentucky.

Table 5. Reported tons of ingredients distributed.

Ingredient	Exempt			Non-Exempt		
	2009	2008	2007	2009	2008	2007
Alfalfa Products	1,892	1,600	2,585	1,844	1,447	409
Animal Products	15,816	9,224	13,999	82,069	97,805	97,649
Barley Products	103	273	293	566	458	934
Beet Products	1,190	438	182	3,942	790	422
Brewers Dried Products	122	108	113	13,465	13,770	11,885
Brewers Wet Grains	0	0	0	7,031	5,177	4,989
Citrus Products	459	128	4,168	3,751	1,560	5,297
Corn Products	67,796	77,595	59,134	113,480	166,178	186,452
Cottonseed Products	13,373	24,336	10,087	4,436	8,740	9,096
Distillers Dried Grain	63,625	53,036	45,723	139,986	151,894	128,565
Distillers Stillage	0	0	0	329,036	359,140	430,650
Drugs	29	3	51	354	193	212
Fats & Oils	12,271	2,775	3,824	10,656	13,984	29,776
Grain Sorghum	0	0	0	0	381	816
Linseed & Flax	358	409	395	249	250	384
Marine Products	17	94	231	378	286	175
Milk Products	1,084	827	3,036	165	183	134
Minerals	25,318	26,483	50,100	73,606	73,745	69,974
Molasses Products	32,918	39,673	22,660	10,160	14,135	6,448
Oat Products	2,044	2,335	1,807	7,416	4,172	4,802
Peanut Products	3,818	4,402	3,963	277	617	1,030
Rice Products	11,357	22,112	15,147	3,306	10,503	8,866
Rye	0	0	0	46	450	72
Soybean Products	267,049	248,072	219,971	493,386	645,935	552,557
Urea & Other NPN	161	219	290	406	2,548	2,014
Vitamins	41	3,088	104	1,942	2,466	1,778
Wheat Products	51,218	61,965	95,920	35,018	42,800	13,428
Whey (Liquid)	0	0	0	11,318	8,611	13,054
Grain Sold & Mixed	109,222	133,982	0	0	0	155,541
Other	5,616	4,544	5,649	22,812	18,910	39,368
Total	686,897	717,721	559,432	1,371,101	1,647,128	1,776,777

Financial

The feed regulatory program is supported by inspection fees of the commercial feeds sold in Kentucky and some state-appropriated funds. A fee of 35 cents per ton is paid on commercial feeds packaged and sold in containers greater than 10 pounds. Distillers wet grains, distillers products with more than 75 percent moisture, whey, and brewers wet grains distributed without further processing to the final purchaser 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 2009, inspection fees, registration fees and penalties collected totaled \$1,156,537. Table 5 summarizes the reported tons of ingredients distributed during the year. The term “exempt” represents ingredients sold to other manufacturers who pay inspection fees. “Non-exempt” represents ingredients for which the reporting firm pays the inspection fee. Table 6 reports the tons of Complete feed and Supplements/Premixes distributed during the year.

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

Type	Complete			Supplement/Premix		
	2009	2008	2007	2009	2008	2007
Chicken Starter Grower	9,570	7,633	7,116	918	991	400
Chicken Broiler	11,561	10,974	4,299	131	113	171
Chicken Layer Breeder	30,032	24,102	20,147	1,354	922	315
Turkey	2,185	2,192	8,757	7	1,504	7
Beef	137,651	201,594	167,105	37,522	43,420	41,170
Dairy	114,969	129,871	121,526	26,198	27,741	29,833
Swine	5,557	5,981	6,734	4,129	4,605	6,226
Sheep	3,234	3,211	4,220	412	463	0
Calf	9,051	11,695	14,738	0	0	0
Horse	101,464	107,155	110,098	0	0	0
Pet Food	315,767	151,617	264,306	0	0	0
Fish	1,321	1,836	1,769	0	0	0
Rabbit	3,798	3,345	3,547	0	0	0
Scratch Feed	8,809	4,378	4,278	0	0	0
Custom Mix	239,486	458,352	313,623	0	0	0
Other	63,794	62,874	52,228	0	0	0
Dried Molasses	0	0	0	1	25	47
Drug Premixes	0	0	0	2,423	816	2,375
Liquid	0	0	0	7,230	2,032	1,852
Microbial Products	0	0	0	25	30	49
Minerals	0	0	0	18,596	20,625	22,504
Vitamin Premix	0	0	0	2,090	2,518	2,377
Total	1,058,249	1,186,810	1,104,491	101,036	105,805	107,326

Report of Official Feed Samples Analyzed—2009

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
21ST CENTURY PET NUTRITION, TEMPE, AZ	1	1	100%	5	5	100%	None
3M SPORTS & LEISURE, ST PAUL, MN	1	1	100%	4	4	100%	None
4 SEASONS MARKETING LLC, FLEMINGSBURG, KY	10	7	70%	95	87	92%	1 Calcium, Min 1 Cobalt 1 Copper 1 Manganese 1 Zinc 2 Vitamin A 1 Chlortetracycline
4 SEASONS MARKETING, MANKATO, MN	9	7	78%	84	82	98%	1 Crude Protein 1 Potassium
ABENGOA BIOENERGY OF INDIANA, MT VERNON, IN	1	1	100%	11	11	100%	None
ABSORPTION CORP, FERNDALE, WA	1	1	100%	3	3	100%	None
ACCO FEEDS INC, MINNEAPOLIS, MN	1	1	100%	6	6	100%	None
ADAIRVILLE FEED MILL #2/RVILLE, ADAIRVILLE, KY	4	4	100%	29	29	100%	None
ADAIRVILLE FEED MILL, ADAIRVILLE, KY	5	5	100%	22	22	100%	None
ADAMS FEED & SUPPLY, BRODHEAD, KY	2	2	100%	10	10	100%	None
ADM ALLIANCE NUTRITION INC, QUINCY, IL	99	75	76%	615	584	95%	9 Crude Protein 2 Crude Fat, Min 3 Crude Fiber, Max 2 Phosphorus, Min 1 Salt, Min 1 Copper 1 Potassium 1 Selenium 4 Zinc 6 Vitamin A 1 Chlortetracycline
ADM CORN PROCESSING/J ARCHER, DECATUR, IL	6	6	100%	23	23	100%	None
ADM MILLING/ST LOUIS, SHAWNEE MISSION, KS	1	1	100%	2	2	100%	None
ADM PROCESSING/SHAMARIE ALLEN, DECATUR, IL	7	7	100%	19	19	100%	None
ADVANCED BIOLOGICAL CONCEPTS, OSCO, IL	1	0	0%	6	5	83%	1 Crude Protein
AG PROCESSING, INC./JIM HAAS, OMAHA, NE	6	4	67%	6	4	67%	2 Crude Protein
AINSWORTH PET NUTRITION, MEADVILLE, PA	2	2	100%	17	17	100%	None
ALBION LABORATORIES, INC., CLEARFIELD, UT	1	1	100%	5	5	100%	None
ALDI INC/NICKI ZUCH, BATAVIA, IL	7	7	100%	60	60	100%	None
ALLEN CO FARMERS SERVICE INC, SCOTTSVILLE, KY	7	5	71%	22	20	91%	1 Crude Protein 1 Potassium
ALLTECH, INC., NICHOLASVILLE, KY	3	3	100%	8	8	100%	None
AMERICAN HEALTH KENNELS INC, POMPANO BEACH, FL	1	1	100%	3	3	100%	None
ANDERSON FARM SERVICE, LAWRENCEBURG, KY	1	1	100%	8	8	100%	None
ANTLER KING TROPHY PRODUCTS, BLACK RIVER FALLS, WI	1	0	0%	5	4	80%	1 Calcium, Min
ARKAT FEEDS INC, DUMAS, AR	1	1	100%	12	12	100%	None
ASA BLOOMINGBURG LLC, BLOOMINGBURG, OH	1	1	100%	3	3	100%	None
ASHLAND MILLING COMPANY INC, ASHLAND, KY	3	1	33%	11	9	82%	1 Crude Protein 1 Calcium, Min
AUTHORITY PET FOOD CO, PHOENIX, AZ	2	2	100%	18	18	100%	None
AZTECA MILLING LP, HENDERSON, KY	6	5	83%	36	35	97%	1 Fumonisin
BAGDAD ROLLER MILLS, BAGDAD, KY	6	6	100%	40	40	100%	None
BAKERY FEED INC, BUTLER, KY	1	0	0%	2	1	50%	1 Crude Protein
BAKERY FEEDS INC, COLD SPRINGS, KY	7	5	71%	24	22	92%	2 Crude Protein

Report of Official Feed Samples Analyzed—2009

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BARDSTOWN MILLS, BARDSTOWN, KY	10	2	20%	67	56	84%	5 Crude Protein 2 Acid Detergent Fiber 3 Salt, Min 1 Zinc
BARTON BRANDS, LTD., BARDSTOWN, KY	1	1	100%	3	3	100%	None
BCCH LLC, MAUMELLE, AR	1	1	100%	3	3	100%	None
BELL ROCK GROWER INC, SAN MARCOS, CA	1	1	100%	4	4	100%	None
BI-COUNTY FARM BUREAU COOP, FLORENCE, KY	2	1	50%	12	10	83%	1 Crude Protein 1 Calcium, Min
BIG BARN FARM STORE, GARRISON, KY	9	4	44%	55	47	85%	2 Crude Protein 2 Crude Fiber, Max 2 Calcium, Min 2 Copper
BIONICHE ANIMAL HEALTH USA INC, ATHENS, GA	1	1	100%	5	5	100%	None
BIOZYME INCORPORATED, ST JOSEPH, MO	1	1	100%	11	11	100%	None
BIT-O-LUV HOLDINGS INC, ALBANY, OR	1	0	0%	4	3	75%	1 AH Fat
BLACK GOLD PET FOODS INC, VIENNA, MO	6	5	83%	54	53	98%	1 Calcium, Min
BLUE BUFFALO CO LTD, WILTON, CT	10	7	70%	126	123	98%	1 Crude Protein 2 Ash
BLUE DOG BAKERY, SEATTLE, WA	1	0	0%	4	3	75%	1 AH Fat
BLUE SEAL FEEDS INC, LONDONDERRY, NH	10	5	50%	86	74	86%	4 Crude Protein 4 AH Fat 1 Copper 1 Manganese 1 Zinc 1 Weight, Net
BLUEGRASS AG DISTRIBUTORS, LANCASTER, KY	9	7	78%	41	39	95%	1 Crude Fat, Min 1 Phosphorus, Min
BLUEGRASS FEED, HUSTONVILLE, KY	1	1	100%	10	10	100%	None
BLUEGRASS SEED, BARDSTOWN, KY	15	13	87%	104	101	97%	1 Crude Protein 1 Salt, Min 1 Potassium
BOW WOW GIFTS INC, AURORA, OH	1	1	100%	4	4	100%	None
BOWLIN FEED INC, ALBANY, KY	3	0	0%	16	12	75%	3 Crude Protein 1 Salt, Min
BREEDERS CHOICE PET FOODS INC, IRWINDALE, CA	9	6	67%	102	99	97%	1 Crude Protein 1 Ash 1 Weight, Net
BRIGHTON MILLS/H NAGEL & SON, CINCINNATI, OH	1	1	100%	6	6	100%	None
BRODHEAD FARM MART, BRODHEAD, KY	2	0	0%	12	8	67%	2 Calcium, Min 1 Phosphorus, Min 1 Copper
BROOKSVILLE FARM SUPPLY, BROOKSVILLE, KY	1	0	0%	7	6	86%	1 Zinc
BRUMFIELD HAY & GRAIN, LEXINGTON, KY	1	0	0%	9	8	89%	1 Crude Protein
BUFFALO TRACE DISTILLERY INC, FRANKFORT, KY	1	0	0%	7	6	86%	1 Crude Fat, Min
BUNGE MILLING, DANVILLE, IL	1	1	100%	3	3	100%	None
BUNGE NORTH AMERICA (EAST) LLC, MORRISTOWN, IN	13	13	100%	23	23	100%	None
BUNGE NORTH AMERICA INC, CAIRO, IL	42	41	98%	44	43	98%	1 Crude Protein
BURKMANN FEEDS OF EDMONTON, EDMONTON, KY	7	7	100%	48	48	100%	None
BURKMANN FEEDS, BOWLING GREEN, KY	7	4	57%	20	17	85%	1 Crude Protein 1 Calcium, Min 1 Special

Report of Official Feed Samples Analyzed—2009

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BURKMANN FEEDS, DANVILLE, KY	87	65	75%	577	550	95%	7 Crude Protein 3 Crude Fat, Min 1 Crude Fiber, Max 2 Acid Detergent Fiber 3 Calcium, Min 1 Salt, Min 1 Copper 1 Iron 1 Manganese 1 Zinc 6 Vitamin A
BURKMANN FEEDS, EUBANK, KY	4	3	75%	11	8	73%	1 Crude Protein 1 Crude Fat, Min 1 Phosphorus, Min
BURKMANN FEEDS, GLASGOW, KY	36	28	78%	134	123	92%	5 Crude Protein 1 Crude Fat, Min 1 Acid Detergent Fiber 2 Phosphorus, Min 1 Salt, Min 1 Vitamin A
BURKMANN FEEDS, HARNED, KY	9	8	89%	41	39	95%	1 Crude Protein 1 Copper
BURKMANN FEEDS, LEBANON, KY	1	1	100%	5	5	100%	None
BURKMANN FEEDS, LONDON, KY	6	4	67%	20	17	85%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
CALCIUM PRODUCTS, SWAYZEE, IN	1	1	100%	1	1	100%	None
CALHOUN FEED SERVICE INC, MADISONVILLE, KY	4	4	100%	17	17	100%	None
CANEYVILLE MILLING INC, CANEYVILLE, KY	25	14	56%	148	134	91%	5 Crude Protein 1 Calcium, Min 4 Phosphorus, Min 2 Salt, Min 1 Copper 1 Zinc
CANIDAE CORPORATION, NORCO, CA	7	2	29%	73	64	88%	3 AH Fat 1 Iron 1 Magnesium 1 Zinc 2 Ash 1 Weight, Net
CANYON CREEK RANCH, ANDERSON, SC	1	0	0%	2	1	50%	1 Crude Protein
CARDINAL LABORATORIES INC, AZUSA, CA	3	1	33%	30	27	90%	1 AH Fat 2 Phosphorus, Min
CARGILL - CORN MILLING DIV, DAYTON, OH	1	1	100%	2	2	100%	None
CARGILL ANIMAL NUTRITION, MINNEAPOLIS, MN	23	13	57%	214	199	93%	2 Crude Protein 1 Acid Detergent Fiber 3 Calcium, Min 2 Phosphorus, Min 1 Potassium 1 Selenium 2 Vitamin A 3 Ash
CARGILL DRY CORN INGREDIENTS, PARIS, IL	3	3	100%	12	12	100%	None
CARGILL INC, MINNEAPOLIS, MN	5	5	100%	18	18	100%	None
CARGILL-PROCESSING GROUP, SIDNEY, OH	4	4	100%	4	4	100%	None
CAROLINA PRIME PET, MURPHY, NC	1	1	100%	4	4	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
CASTOR-POLLUX PET WORKS, CLACKAMAS, OR	6	5	83%	65	63	97%	1 AH Fat 1 Calcium, Min
CATTELMANS CHOICE LOOMIX LLC, JOHNSTOWN, CO	1	0	0%	4	3	75%	1 Crude Fat, Min
CECILIA FARM SERVICE, CECILIA, KY	5	5	100%	20	20	100%	None
CELEBRATION FEEDS, SHELBYVILLE, TN	1	1	100%	8	8	100%	None
CENTRAL FARM SUPPLY, LOUISVILLE, KY	8	6	75%	45	43	96%	2 Crude Protein
CENTRAL FARMERS SUPPLY, GREENSBURG, KY	11	10	91%	67	66	99%	1 Crude Fat, Min
CENTRAL GARDEN & PET, FRANKLIN, WI	3	3	100%	9	9	100%	None
CH PET INC - F/K/A CHOMP INC, DUXBURY, MA	1	1	100%	4	4	100%	None
CHAMPION PETFOODS LTD, CANADA T8R 1K7	2	2	100%	21	21	100%	None
CHARLEE BEAR FARMS INC, ST FRANCIS, WI	1	1	100%	10	10	100%	None
CHS INC, INVER GROVE HEIGHTS, MN	4	4	100%	18	18	100%	None
CHURCH & DWIGHT CO INC, PRINCETON, NJ	1	1	100%	2	2	100%	None
CLEMENTS AGRI-SUPPLY INC, SPRINGFIELD, KY	8	4	50%	46	42	91%	3 Crude Protein 1 Potassium
CLOUD STAR, SAN LUIS OBISPO, CA	4	2	50%	16	14	88%	2 Crude Protein
COMMONWEALTH AGRI-ENERGY LLC, HOPKINSVILLE, KY	11	8	73%	40	37	93%	3 Crude Protein
COMMONWEALTH FEEDS, BOWLING GREEN, KY	6	4	67%	43	39	91%	2 Crude Protein 1 Crude Fiber, Max 1 Phosphorus, Min
CONSOLIDATED GRAIN & BARGE, MT VERNON, IN	6	6	100%	9	9	100%	None
COUNTRY ACRES FEED CO INC, BRENTWOOD, MO	13	12	92%	91	90	99%	1 Phosphorus, Min
COX VETERINARY LABORATORY, CHESTER, SC	2	0	0%	10	1	10%	1 Calcium, Min 1 Cobalt 1 Copper 1 Iron 1 Magnesium 1 Manganese 1 Potassium 1 Zinc 1 Vitamin A
CPC COMMODITIES LLC, FOUNTAIN RUN, KY	59	47	80%	344	327	95%	6 Crude Protein 1 Calcium, Min 2 Phosphorus, Min 1 Copper 2 Magnesium 2 Potassium 3 Vitamin A
CREEKSIDE FEED & FARM, MARION, KY	25	22	88%	128	125	98%	1 Crude Protein 1 Calcium, Min 1 Copper
CROP PRODUCTION SERVICE, HORSE CAVE, KY	1	1	100%	8	8	100%	None
CUB RUN MILLING CO, CANMER, KY	1	1	100%	8	8	100%	None
CUSTOM FEED MILL LLC, MORGANFIELD, KY	28	17	61%	222	209	94%	3 Crude Protein 2 Crude Fiber, Max 1 Copper 1 Potassium 2 Selenium 1 Zinc 3 Vitamin A
CUSTOM TRADING & BLENDING INC, TERRE HAUTE, IN	3	0	0%	11	7	64%	1 Crude Protein 1 Crude Fat, Min 1 AH Fat 1 Crude Fiber, Max
D & D COMMODITIES, STEPHEN, MN	2	1	50%	7	6	86%	1 Crude Protein
DABNEY FEED & SUPPLY, SOMERSET, KY	4	4	100%	23	23	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
DAD'S PET CARE, MEADVILLE, PA	2	2	100%	7	7	100%	None
DAVENPORT FARM SUPPLY, FLEMINGSBURG, KY	4	3	75%	18	16	89%	1 Crude Protein 1 Calcium, Min
DAY & DAY FEED MILL, COLUMBIA, KY	2	2	100%	14	14	100%	None
DEL MONTE PET PRODUCTS, PITTSBURGH, PA	19	16	84%	213	208	98%	1 Calcium, Min 1 Phosphorus, Min 2 Copper 1 Magnesium
DELCA CORP, LAGUNA NIGUEL, CA	2	0	0%	8	5	63%	2 Crude Protein 1 AH Fat
DIAMOND PET FOODS CO, META, MO	4	4	100%	28	28	100%	None
DICK VAN PATTEN'S, PACOIMA, CA	7	4	57%	65	62	95%	1 AH Fat 1 Magnesium 1 Zinc
DIXIE FEED & SUPPLY, FALMOUTH, KY	1	1	100%	8	8	100%	None
DOGGIE DE LITES INC, ALPHARETTA, GA	1	0	0%	4	2	50%	1 Crude Protein 1 Weight, Net
DOGMATIC PRODUCTS INC, NEW YORK, NY	1	1	100%	3	3	100%	None
DOGSWELL LLC, LOS ANGELES, CA	2	2	100%	26	26	100%	None
DOLGENCORP LLC, GOODLETTSVILLE, TN	10	10	100%	109	109	100%	None
DOUBLE S LIQUID FEED SVC, DANVILLE, IL	1	0	0%	5	3	60%	1 Crude Protein 1 Phosphorus, Min
EARLY TIMES DISTILLERY CO, LOUISVILLE, KY	1	1	100%	5	5	100%	None
EGP LLC, OBION, TN	1	1	100%	2	2	100%	None
EGP LLC, RIVES, TN	1	1	100%	4	4	100%	None
EIGHT IN ONE PET PRODUCTS, ISLANDIA, NY	7	4	57%	36	32	89%	1 Crude Protein 2 AH Fat 1 Calcium, Min
EMBASSY INTERNATIONAL, INC., CINCINNATI, OH	5	5	100%	39	39	100%	None
EQUINE AMERICA INC, AIKEN, SC	1	1	100%	6	6	100%	None
EQUIVISION INC, VERSAILLES, KY	1	1	100%	4	4	100%	None
EVOLVED HABITATS, BATON ROUGE, LA	5	3	60%	33	28	85%	1 Crude Fiber, Max 1 Cobalt 1 Iron 1 Magnesium 1 Zinc
EXCLUSIVELY PET INC, MILWAUKEE, WI	3	0	0%	12	9	75%	2 Crude Protein 1 Moisture
EXL MILLING LTD, CANADA S9V 0Y7	1	1	100%	3	3	100%	None
F M BROWNS SONS INC, SINKING SPRING, PA	4	3	75%	17	16	94%	1 AH Fat
F W COBS COMPANY INC, SAINT ALBANS BAY, VT	1	0	0%	5	4	80%	1 Calcium, Min
FAITHWAY FEED CO INC, GUNTERSVILLE, AL	4	2	50%	44	41	93%	1 AH Fat 1 Calcium, Min 1 Sodium
FARMER'S CHOICE FEED MILL, KIRKSEY, KY	6	4	67%	38	36	95%	2 Crude Protein
FARMERS FEED MILL, LEXINGTON, KY	10	7	70%	74	71	96%	3 Salt, Min
FARNAM CO/HORSE PRODUCTS DIV, PHOENIX, AZ	6	1	17%	71	62	87%	2 Crude Protein 1 Crude Fat, Min 1 Iron 1 Magnesium 1 Zinc 3 Vitamin A
FARNAM PET PRODUCTS, PHOENIX, AZ	1	1	100%	4	4	100%	None
FEEDERS SUPPLY COMPANY, LOUISVILLE, KY	2	1	50%	7	5	71%	1 Crude Protein 1 AH Fat
FINISH LINE HORSE PRODUCTS, BENSENVILLE, IL	2	2	100%	16	16	100%	None
FIRST COMPANION VETERINARY, WESTLAKE, TX	1	1	100%	5	5	100%	None

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FISHBELT FEEDS INC, MOORHEAD, MS	1	1	100%	2	2	100%	None
FLUKER FARMS INC, PORT ALLEN, LA	1	1	100%	12	12	100%	None
FOOD LION STORES, SALISBURY, NC	10	10	100%	99	99	100%	None
FRANK HINTON & SON, PLUMMERS LANDING, KY	6	3	50%	37	34	92%	2 Crude Protein 1 Salt, Min
FREDS INC - CHERRY EVANS, MEMPHIS, TN	10	10	100%	115	115	100%	None
FROMM FAMILY FOODS LLC, MEQUON, WI	6	4	67%	38	35	92%	1 Copper 1 Sodium 1 Ash
FULL PETENTIAL INC, LOS ANGELES, CA	2	1	50%	8	7	88%	1 AH Fat
FURMINATOR INC, FENTON, MO	1	0	0%	6	5	83%	1 AH Fat
G M TAYLOR SEED CO, GEORGETOWN, KY	2	2	100%	12	12	100%	None
GATEWAY PRODUCTS INC, HOLLY, CO	1	1	100%	1	1	100%	None
GHC MILLING, FORDSVILLE, KY	6	3	50%	28	24	86%	3 Crude Protein 1 Salt, Min
GLOBAL HARVEST BIRDSEED, SEATTLE, WA	1	1	100%	2	2	100%	None
GOLD CITY FEED MILL, FRANKLIN, KY	3	3	100%	25	25	100%	None
GOLDEN LYK LLC, MORRIS, MN	1	1	100%	8	8	100%	None
GOLDEN SUN FEEDS INC, ST LOUIS, MO	1	0	0%	5	4	80%	1 Crude Protein
GOLDENROD FEEDS, LIBERTY, KY	11	9	82%	53	51	96%	1 Crude Protein 1 Calcium, Min
GRAIN PROCESSING CORPORATION, MUSCATINE, IA	1	1	100%	4	4	100%	None
GRAIN PROCESSING CORPORATION, WASHINGTON, IN	8	8	100%	24	24	100%	None
GREEN RIVER FEED MILL, MORGANTOWN, KY	5	3	60%	23	20	87%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
GRO-TEC INC, MODOC, IN	2	1	50%	15	14	93%	1 Phosphorus, Min
GUTWEIN & CO INC, LAFAYETTE, IN	1	0	0%	5	3	60%	1 Crude Protein 1 AH Fat
GUTWEIN & CO INC, REYNOLDS, IN	1	0	0%	4	3	75%	1 AH Fat
HALO-PURELY FOR PETS, TAMPA, FL	5	3	60%	42	39	93%	1 Calcium, Min 1 Zinc 1 Weight, Net
HANBY FARMS FEED & SUPPLY, NASHPORT, OH	1	0	0%	1	0	0%	1 Crude Protein
HARDIN COUNTY MILLING COMPANY, ELIZABETHTOWN, KY	5	3	60%	38	35	92%	1 Crude Protein 1 Crude Fiber, Max 1 Salt, Min
HARTSVILLE OIL MILL-DARLINGTON, DARLINGTON, KY	1	0	0%	4	3	75%	1 Crude Protein
HARTZ MOUNTAIN CORPORATION, SECAUCUS, NJ	5	4	80%	18	17	94%	1 Zinc
HBH ENTERPRISES, SPRINGVILLE, UT	5	4	80%	19	18	95%	1 AH Fat
HEALTH-PRO NUTRITION, PICO RIVERA, CA	2	0	0%	20	15	75%	1 Phosphorus, Min 2 Manganese 2 Zinc
HEALTHY PET FOODS/INTEGRATED P, WEST CHESTER, PA	1	0	0%	14	13	93%	1 Ash
HEINOLD FEEDS, KOUTS, IN	1	1	100%	1	1	100%	None
HIGGINS GROUP CORPORATION, MIAMI, FL	2	2	100%	6	6	100%	None
HIGH COUNTRY MERCANTILE, CODY, WY	1	1	100%	2	2	100%	None
HIKARI SALES USA INC, HAYWARD, CA	2	2	100%	9	9	100%	None
HILLS PET NUTRITION INC, TOPEKA, KS	9	8	89%	57	56	98%	1 Crude Protein
HOOVERS FEED MILL, SCOTTSVILLE, KY	5	3	60%	28	26	93%	1 Crude Protein 1 Zinc
HORSE HEALTH PRODUCTS, PHOENIX, AZ	4	3	75%	21	20	95%	1 Vitamin A
HUBBARD FEEDS INC, BUSHNELL, IL	2	2	100%	18	18	100%	None

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HUBBARD FEEDS INC, MANKATO, MN	38	27	71%	234	222	95%	7 Crude Protein 2 Crude Fiber, Max 1 Phosphorus, Min 1 Vitamin A 1 Chlorotetracycline
HUBBARD FEEDS INC/PET FOOD DIV, MANKATO, MN	1	1	100%	13	13	100%	None
HYLAND CO INC, ASHLAND, KY	9	7	78%	104	101	97%	1 AH Fat 1 Manganese 1 Zinc
IAMS FOOD COMPANY, LEWISBURG, OH	9	9	100%	93	93	100%	None
ICE'S PRODUCE, BARDSTOWN, KY	2	2	100%	3	3	100%	None
INCOBRASA INDUSTRIES LTD, GILMAN, IL	10	10	100%	20	20	100%	None
INDIANA PACKERS CROP, DELPHI, IN	1	1	100%	4	4	100%	None
INTEGRITY FEEDS LLC, OWENSBORO, KY	39	31	79%	265	254	96%	3 Crude Protein 1 Calcium, Min 2 Phosphorus, Min 4 Salt, Min 1 Zinc
INTER AMERICAN, CINCINNATI, OH	14	12	86%	109	107	98%	2 Crude Protein
INTL PET SUPPLIES/DISTRIBUTION, SAN DIEGO, CA	5	5	100%	38	38	100%	None
J & H FEED & TACK INC, STAFFORDSVILLE, KY	4	1	25%	16	12	75%	3 Crude Protein 1 Phosphorus, Min
JABETOWN MILL, EWING, KY	5	5	100%	27	27	100%	None
JC QUARTER HORSES LLC, NEW CASTLE, PA	1	1	100%	3	3	100%	None
JEFFRIES FEED SEED & SUPPLY, CAMPBELLSVILLE, KY	1	0	0%	5	4	80%	1 Crude Protein
JIM BEAM BRANDS, BOSTON, KY	1	0	0%	8	7	88%	1 Crude Protein
JRB FOODS INC, SHARON CENTER, OH	2	1	50%	8	7	88%	1 AH Fat
KALMBACH FEEDS INC, UPPER SANDUSKY, OH	10	5	50%	65	58	89%	1 AH Fat 1 Salt, Min 1 Copper 1 Magnesium 1 Zinc 2 Vitamin A
KAYTEE PRODUCTS INC, CHILTON, WI	7	5	71%	28	26	93%	1 Crude Fat, Min 1 AH Fat
KDR PET TREATS LLC, FRESNO, CA	2	2	100%	8	8	100%	None
KENT FEEDS INC/RICH CRADDICK, MUSCATINE, IA	22	18	82%	138	132	96%	2 Crude Protein 2 Copper 1 Zinc 1 Vitamin A
KENTUCKY EQUINE RESEARCH INC, VERSAILLES, KY	2	2	100%	11	11	100%	None
KENTUCKY NUTRITION SERVICE, LAWRENCEBURG, KY	9	8	89%	84	83	99%	1 Copper
KENTUCKY PERFORMANCE PRODUCTS, VERSAILLES, KY	3	3	100%	21	21	100%	None
KICK NUTRITION, CANADA N 1 H 6J2, 00	3	0	0%	12	6	50%	2 Crude Protein 1 AH Fat 1 Ash 2 Moisture
KLN ENTERPRISES INC, PERHAM, MN	8	6	75%	79	76	96%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
K-MART CORPORATION, HOFFMAN ESTATES, IL	5	5	100%	49	49	100%	None
KONG COMPANY, GOLDEN, CO	1	1	100%	5	5	100%	None
KROGER, CINCINNATI, OH	4	3	75%	32	30	94%	1 Crude Protein 1 Calcium, Min
K-STAR COMMODITIES, HOPKINSVILLE, KY	1	1	100%	9	9	100%	None
LAFEBER COMPANY, CORNELL, IL	2	2	100%	7	7	100%	None
LAKE CUMBERLAND FEED & FARM, RUSSELL SPRINGS, KY	2	1	50%	10	9	90%	1 Calcium, Min

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LAKE CUMBERLAND MILLING LLC, MONTICELLO, KY	4	4	100%	20	20	100%	None
LAMA WELLNESS SERVICE INC, HENDERSON, KY	3	3	100%	18	18	100%	None
LAND O'LAKES INC - RUSS RAPP, SHOREVIEW, MN	1	1	100%	9	9	100%	None
LAND O'LAKES PURINA FEED LLC, SHOREVIEW, MN	6	3	50%	54	49	91%	1 Crude Fiber, Max 1 Cobalt 2 Potassium 1 Vitamin A
LEMSTERS MILL LLC, SMITHS GROVE, KY	6	6	100%	52	52	100%	None
LESTER STUTZMAN FEED MILL, MARION, KY	13	9	69%	55	51	93%	1 Crude Protein 3 Phosphorus, Min
LIFE DATA LABS INC, CHEROKEE, AL	1	1	100%	10	10	100%	None
LIVESTOCK MANAGEMENT SVC, BOWLING GREEN, KY	11	10	91%	113	112	99%	1 Selenium
LOUIS DREYFUS CLAYPOOL HOLDING, KANSAS CITY, MO	2	2	100%	6	6	100%	None
LOWES PELLETS & GRAIN INC, GREENSBURG, IN	2	2	100%	13	13	100%	None
LUTTRULL FEED SERVICE, PEMBROKE, KY	3	3	100%	14	14	100%	None
M & M FEEDS, AUSTIN, KY	2	1	50%	11	10	91%	1 Crude Protein
M & W MILLING COMPANY INC, COLUMBIA, KY	3	3	100%	19	19	100%	None
MANNA PRO PRODUCTS, LLC, ST LOUIS, MO	7	5	71%	50	48	96%	1 Crude Protein 1 Vitamin A
MARION FEED MILL INC, MARION, KY	6	6	100%	47	47	100%	None
MARK & CHAPPELL LTD, ELGIN, IL	5	2	40%	20	16	80%	1 Crude Protein 2 AH Fat 1 Moisture
MARS FISHCARE NORTH AMERICA, CHALFONT, PA	1	1	100%	3	3	100%	None
MARS HORSECARE US INC, DALTON, OH	2	1	50%	17	16	94%	1 AH Fat
MARS PETCARE US INC, FRANKLIN, TN	5	3	60%	60	58	97%	1 Phosphorus, Min 1 Weight, Net
MARSHALL PET PRODUCTS, WOLCOTT, NY	3	2	67%	9	8	89%	1 Crude Protein
MARTINS FEED & SUPPLY, LIBERTY, KY	9	9	100%	28	28	100%	None
MASTERFOODS USA/KAL KAN, VERNON, CA	6	5	83%	78	77	99%	1 Phosphorus, Min
MAYS LICK MILL, MAYS LICK, KY	6	6	100%	31	31	100%	None
MAZELIN FEED MILL, SCOTTSVILLE, KY	1	0	0%	7	6	86%	1 Copper
MCCAULEY BROS INC, VERSAILLES, KY	7	7	100%	52	52	100%	None
MCCUISTON MILLS INC, HERNDON, KY	1	1	100%	5	5	100%	None
MCGAHAN & COMPANY, PAINTSVILLE, KY	5	4	80%	26	23	88%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
MCRAE FEED LLC, HARRODSBURG, KY	16	13	81%	71	66	93%	1 Crude Fat, Min 2 Crude Fiber, Max 2 Zinc
MEIJER INC, GRAND RAPIDS, MI	8	7	88%	57	56	98%	1 Weight, Net
MELICK AQUA FEED INC, CATAWISSA, PA	2	2	100%	7	7	100%	None
MENNEL MILLING COMPANY, FOSTORIA, OH	1	1	100%	2	2	100%	None
MERRICK PET CARE INC, AMARILLO, TX	8	4	50%	96	92	96%	1 Calcium, Min 2 Zinc 1 Ash
MFS ALLIANCE INC, EDMONTON, KY	15	12	80%	84	81	96%	2 Crude Protein 1 Acid Detergent Fiber
MICHAEL FOODS, MINNETONKA, MN	1	1	100%	3	3	100%	None
MID-SOUTH MILLING CO, MEMPHIS, TN	9	8	89%	34	33	97%	1 Phosphorus, Min
MID-STATES DISTRIBUTING CO, ST. PAUL, MN	5	5	100%	21	21	100%	None

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MIDWESTERN PET FOODS INC, EVANSVILLE, IN	12	6	50%	91	78	86%	1 Crude Protein 1 AH Fat 4 Magnesium 4 Ash 3 Weight, Net
MILES FARM CENTER #6, OWENSBORO, KY	1	1	100%	10	10	100%	None
MILK SPECIALTIES COMPANY, CARPENTERSVILLE, IL	1	1	100%	7	7	100%	None
MIRACLE CORP PRODUCTS, DAYTON, OH	2	1	50%	12	11	92%	1 Weight, Net
MISSISSIPPI LIME CO, ST LOUIS, MO	1	1	100%	2	2	100%	None
MONROE BROS FEED MILL, CAVE CITY, KY	10	8	80%	46	43	93%	1 Crude Protein 1 Copper 1 Zinc
MOSAIC CROP NUTRITION LLC, LITHIA, FL	6	6	100%	13	13	100%	None
MRS PASTURES COOKIES FOR HORSE, WALNUT CREEK, CA	1	1	100%	4	4	100%	None
MULLICAN FEED/INTEGRITY FEEDS, OWENSBORO, KY	2	2	100%	14	14	100%	None
MYERS FEED & FARM SUPPLY, CORINTH, KY	1	0	0%	5	4	80%	1 Copper
NATIONAL STARCH & CHEM CO, INDIANAPOLIS, IN	1	1	100%	2	2	100%	None
NATURA PET PRODUCTS, FREMONT, NE	13	13	100%	135	135	100%	None
NATURAL LIFE PET PRODUCTS, PITTSBURG, KS	5	2	40%	68	64	94%	2 AH Fat 1 Ash 1 Weight, Net
NATURAL PET NUTRITION COMPANY, BOULDER, CO	3	3	100%	39	39	100%	None
NATURAL POLYMER INTL CORP, PLANO, TX	1	1	100%	5	5	100%	None
NATURE ZONE, CHICO, CA	1	0	0%	3	2	67%	1 Crude Protein
NATURES RECIPE PET FOODS, PITTSBURGH, PA	9	7	78%	96	94	98%	1 AH Fat 1 Zinc
NATURES VARIETY, LINCOLN, NE	8	6	75%	89	87	98%	2 Crude Protein
NESTLE PURINA PETCARE CO, ST LOUIS, MO	8	8	100%	65	65	100%	None
NEW ENERGY CORP, SOUTH BEND, IN	11	11	100%	37	37	100%	None
NEWMANS OWN ORGANICS, APTOS, CA	4	2	50%	45	35	78%	1 Crude Protein 1 AH Fat 1 Calcium, Min 2 Phosphorus, Min 1 Magnesium 2 Potassium 2 Sodium
NORTHERN PET PRODUCTS INC, CANADA L4K 1Y7	1	1	100%	5	5	100%	None
NUTRI-VET LLC, BOISE, ID	2	2	100%	10	10	100%	None
NUTRO PRODUCTS INC, FRANKLIN, TN	12	12	100%	126	126	100%	None
OCEAN NUTRITION, SALT LAKE CITY, UT	1	1	100%	3	3	100%	None
ODOM'S LIVESTOCK SUPPLY, MAYFIELD, KY	6	4	67%	45	42	93%	1 Crude Protein 1 Copper 1 Monensin Sodium
OLD WEST PET TREATS, OMAHA, NE	1	1	100%	4	4	100%	None
OMEGA SEA LTD, PERRY, OH	2	1	50%	6	5	83%	1 AH Fat
ORALX CORPORATION, OGDEN, UT	1	0	0%	4	1	25%	1 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max
ORGANIC VALLEY/CROPP COOP, LAFARGE, WI	1	1	100%	2	2	100%	None
ORSCHL N FARM & HOME, MOBERLY, MO	1	1	100%	11	11	100%	None
OWENSBORO GRAIN CO INC, OWENSBORO, KY	33	33	100%	43	43	100%	None
PACIFIC COAST DISTRIBUTING, PHOENIX, AZ	18	15	83%	88	85	97%	1 AH Fat 1 Ash 1 Weight, Net
PAMPERED PET TREATS, ALPINE, CA	1	0	0%	4	3	75%	1 AH Fat

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PAW PRINTS BAKERY LLC, WINCHESTER, KY	1	1	100%	4	4	100%	None
PCS SALES (USA) INC, NORTHBROOK, IL	1	1	100%	2	2	100%	None
PEMBROKE AG, PEMBROKE, KY	2	2	100%	12	12	100%	None
PENN PAK INC, MADISON, GA	2	0	0%	7	3	43%	1 Crude Protein 2 Crude Fiber, Max 1 Calcium, Min
PENNWOODS EQUINE PRODUCTS INC, CENTRE HALL, PA	2	2	100%	9	9	100%	None
PENNYRILE ORGANICS, GUTHRIE, KY	1	0	0%	1	0	0%	1 Crude Protein
PERFORMANCE FEEDS, RED BOILING SPGS, TN	4	2	50%	36	34	94%	2 Vitamin A
PET VENTURES/ORRAA, NORTH HOLLYWOOD, CA	1	0	0%	4	3	75%	1 AH Fat
PET-AG INC, HAMPSHIRE, IL	3	3	100%	17	17	100%	None
PETCO ANIMAL SUPPLIES INC., SAN DIEGO, CA	2	2	100%	8	8	100%	None
PETGUARD INC, GREEN COVE SPGS, FL	6	3	50%	74	71	96%	1 Crude Protein 1 AH Fat 1 Calcium, Min
PETPLAY INC, RANCHO CUCAMONGA, CA	2	2	100%	9	9	100%	None
PETRAPPONT INC, NORTH BERGEN, NJ	1	1	100%	4	4	100%	None
PETROPICS LLC, CHINO, CA	3	2	67%	41	40	98%	1 Crude Protein
PHIBRO ANIMAL HEALTH, RIDGEFIELD PARK, NJ	1	1	100%	1	1	100%	None
PMI NUTRITION INC, BRENTWOOD, MO	6	5	83%	44	43	98%	1 Copper
PMI NUTRITIONAL INTL INC, ST LOUIS, MO	2	2	100%	14	14	100%	None
POET NUTRITION INC, SIOUX FALLS, SD	1	1	100%	10	10	100%	None
PREMIER FEED COMPANY, SABINA, OH	1	0	0%	6	5	83%	1 Magnesium
PREMIER PET PRODUCTS, MIDLOTHIAN, VA	2	1	50%	7	6	86%	1 Crude Protein
PREMIUM NUTRITIONAL PRODUCTS, MISSION, KS	2	2	100%	6	6	100%	None
PRETTY BIRD INTL INC, STACY, MN	1	1	100%	13	13	100%	None
PRODUCER FEEDS, LOUISVILLE, KY	26	18	69%	176	168	95%	1 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max 1 Phosphorus, Min 1 Salt, Min 1 Copper 2 Vitamin A
PROFESSIONAL PET CO, META, MO	4	4	100%	19	19	100%	None
PROGRESSIVE NUTRITION, HARLAN, IA	4	3	75%	30	29	97%	1 Vitamin A
PRO-PET LLC, ST MARYS, OH	1	1	100%	3	3	100%	None
PROVIMI NORTH AMERICA INC, BROOKVILLE, OH	4	2	50%	22	20	91%	1 Zinc 1 Vitamin A
PURINA MILLS INC, ST. LOUIS, MO	69	61	88%	474	466	98%	5 Crude Protein 1 Crude Fiber, Max 1 Cobalt 1 Zinc
RAMARD INC, OCALA, FL	1	1	100%	9	9	100%	None
RED A FEEDS, MANKATO, MN	9	8	89%	52	51	98%	1 Crude Protein
RED RIVER COMMODITIES, FARGO, ND	2	0	0%	7	4	57%	2 Crude Protein 1 Crude Fiber, Max
REDBARN PET PRODUCTS INC, LONG BEACH, CA	1	0	0%	3	2	67%	1 Weight, Net
RENAISSANCE NUTRITION INC, ROARING SPRING, PA	3	1	33%	21	19	90%	1 Crude Protein 1 Vitamin A
REP CAL RESEARCH LABS, LOS GATOS, CA	1	1	100%	3	3	100%	None
RICHDEL INC, CARSON CITY, NV	1	0	0%	8	7	88%	1 Crude Protein
RIDLEY FEED INGREDIENT MENDOTA, MENDOTA, IL	3	2	67%	5	4	80%	1 Manganese
RIDLEY NUTRITION SOLUTIONS, MANKATO, MN	2	2	100%	20	20	100%	None
RIP'S FARM CENTER, TOLLESBORO, KY	11	11	100%	55	55	100%	None
RISSLER BROS, WEST LIBERTY, KY	2	2	100%	12	12	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
RIVER VALLEY ANIMAL FOODS, ROBARDS, KY	3	3	100%	19	19	100%	None
ROLF C. HAGEN (USA) CORP, MANSFIELD, MA	1	0	0%	5	4	80%	1 Crude Protein
ROSE ACRE FARMS INC, SEYMOUR, IN	1	0	0%	4	3	75%	1 Crude Protein
ROUDYBUSH INC, WOODLAND, CA	1	1	100%	4	4	100%	None
ROYAL CANIN USA INC, ST CHARLES, MO	5	5	100%	31	31	100%	None
RUCKELS FARM SUPPLY, WAYNESBURG, KY	5	3	60%	42	39	93%	2 Crude Fiber, Max 1 Salt, Min
RUDYS FARM CENTER, KEVIL, KY	1	1	100%	8	8	100%	None
RURAL KING, MATTOON, IL	3	0	0%	14	11	79%	3 Crude Protein
RUSSELL COUNTY FEED MILL, RUSSELL SPRINGS, KY	3	2	67%	19	17	89%	1 Acid Detergent Fiber 1 Phosphorus, Min
S S BRECK, HARDINSBURG, KY	8	8	100%	29	29	100%	None
S S COOP INC - FEED DIV, WINCHESTER, KY	1	1	100%	10	10	100%	None
S S COOP INC, RICHMOND, VA	146	119	82%	1,063	1,035	97%	18 Crude Protein 1 Calcium, Min 1 Salt, Min 1 Potassium 6 Vitamin A 1 Monensin Sodium
S S FLEMINGSBURG, FLEMINGSBURG, KY	4	4	100%	17	17	100%	None
S S GEORGETOWN, GEORGETOWN, KY	4	4	100%	14	14	100%	None
S S HOPKINSVILLE, HOPKINSVILLE, KY	3	2	67%	15	13	87%	1 Crude Protein 1 Phosphorus, Min
S S LEITCHFIELD, LEITCHFIELD, KY	6	3	50%	34	31	91%	2 Crude Protein 1 Salt, Min
S S LONDON, LONDON, KY	6	2	33%	30	25	83%	2 Crude Protein 1 Calcium, Min 1 Salt, Min 1 Copper
S S MAYSVILLE, MAYSVILLE, KY	1	1	100%	5	5	100%	None
S S OWENSBORO, OWENSBORO, KY	2	2	100%	16	16	100%	None
S S SPRINGFIELD SVC, SPRINGFIELD, KY	1	1	100%	5	5	100%	None
SAMMY SNACKS INC, CHARLOTTESVILLE, VA	1	1	100%	7	7	100%	None
SAVE-A-LOT LTD, EARTH CITY, MO	9	8	89%	95	94	99%	1 Crude Protein
SHELL & KAMPETER, ST THOMAS, MO	2	2	100%	8	8	100%	None
SCHOCHOH MILLS INC, ADAIRVILLE, KY	1	1	100%	11	11	100%	None
SCIENCE HILL MILLING CO, SCIENCE HILL, KY	13	8	62%	74	63	85%	2 Crude Protein 2 Crude Fat, Min 1 Crude Fiber, Max 1 Calcium, Min 2 Phosphorus, Min 1 Salt, Min 1 Zinc 1 Vitamin A
SCOTT PET PRODUCTS, ROCKVILLE, IN	2	2	100%	8	8	100%	None
SEEDS INC, MEMPHIS, TN	3	2	67%	36	35	97%	1 Calcium, Min
SEMO MILLING, CAPE GIRARDEAU, MO	1	1	100%	2	2	100%	None
SERGEANTS PET CARE PRODUCTS, OMAHA, NE	2	1	50%	11	10	91%	1 AH Fat
SEVENTY FEEDS LLC, EUBANK, KY	8	7	88%	33	32	97%	1 Crude Fat, Min
SIMMONS PET FOOD INC, SILOAM SPRINGS, AR	4	4	100%	41	41	100%	None
SMITH SOUTH SIDE FEED & GRAIN, BOWLING GREEN, KY	1	1	100%	10	10	100%	None
SOJOURNER FARMS, MINNEAPOLIS, MN	2	0	0%	8	6	75%	1 Crude Protein 1 AH Fat
SOLID GOLD HEALTH PRODUCTS, EL CAJON, CA	5	4	80%	47	46	98%	1 Calcium, Min

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SOURCE INC, N BRANFORD, CT	1	1	100%	6	6	100%	None
SOUTH FRESH FEEDS, DEMOPOLIS, AL	2	1	50%	6	5	83%	1 Crude Protein
SOUTHEASTERN WHOLESALERS INC, BARBOURVILLE, KY	1	1	100%	5	5	100%	None
SOUTHERN STATES COOP INC, RICHMOND, VA	1	1	100%	6	6	100%	None
SPECIALTY FEEDS INC, MEMPHIS, TN	3	2	67%	37	36	97%	1 Potassium
STOCKADE BRANDS INC, PITTSBURG, KS	3	2	67%	22	21	95%	1 Selenium
SUMMERSVILLE FEED MILL, SUMMERSVILLE, KY	7	4	57%	26	21	81%	1 Crude Fat, Min 1 Calcium, Min 1 Salt, Min 1 Copper 1 Zinc
SUNSHINE MILLS INC, RED BAY, AL	5	3	60%	46	43	93%	1 Crude Protein 1 AH Fat 1 Magnesium
SUPREME MILLS, GLASGOW, KY	1	1	100%	9	9	100%	None
SUPREME PET PRODUCTS, FERNDALE, WA	2	2	100%	11	11	100%	None
SWEETLIX LLC/HUBBARD FEEDS, MANKATO, MN	8	5	63%	74	67	91%	1 Crude Protein 1 Manganese 1 Potassium 1 Selenium 1 Zinc 2 Vitamin A
T & H FEED SERVICE, LEBANON, KY	1	1	100%	5	5	100%	None
TALK TO ME PET TREATS LLC, CHESTERFIELD, MO	1	0	0%	4	3	75%	1 Crude Protein
TARGET CORPORATION, MINNEAPOLIS, MN	6	5	83%	66	65	98%	1 Crude Protein
TASTE OF THE WILD, META, MO	4	4	100%	50	50	100%	None
TEDS FEED STORE, MIDDLESBORO, KY	1	1	100%	5	5	100%	None
TENNESSEE FARMERS COOPERATIVE, LAVERGNE, TN	5	5	100%	40	40	100%	None
TETRA HOLDING (US)/TETRA WERKE, BLACKSBURG, VA	4	3	75%	12	11	92%	1 AH Fat
THE GOODLIFE RECIPE PETCARE CO, FRANKLIN, TN	6	6	100%	60	60	100%	None
THE LAZY DOG COOKIE CO LLC, BALLSTON SPA, NY	1	1	100%	4	4	100%	None
THE SCOTTS COMPANY LLC, MARYVILLE, OH	1	0	0%	5	4	80%	1 Crude Fat, Min
THREE DOG BAKERY, KANSAS CITY, MO	3	1	33%	21	18	86%	2 Crude Protein 1 AH Fat
THRIVE FOODS LLC, ROSWELL, GA	2	1	50%	8	7	88%	1 Crude Protein
TIZWHIZ SALES LTD, SOUTH CHARLESTON, OH	2	2	100%	18	18	100%	None
TRACTOR SUPPLY COMPANY, BRENTWOOD, TN	18	14	78%	167	163	98%	1 Crude Protein 1 AH Fat 1 Calcium, Min 1 Vitamin A
T-REX PRODUCTS, CHULA VISTA, CA	2	1	50%	5	4	80%	1 Crude Protein
TRI STATE PACKAGING CO, VAN WERT, OH	1	1	100%	4	4	100%	None
TRI-COUNTY FEEDS, LIBERTY, KY	6	5	83%	30	29	97%	1 Crude Protein
TRI-COUNTY FERTILIZER, RICHMOND, KY	6	3	50%	32	29	91%	1 Crude Protein 2 Calcium, Min
TRIPLE CROWN NUTRITION INC, WAYZATA, MN	1	1	100%	5	5	100%	None
TWO RIVERS INC, DRAKESBORO, KY	4	4	100%	24	24	100%	None
TYSON FRESH MEATS INC, DAKOTA CITY, NE	6	5	83%	24	23	96%	1 Calcium, Min
TYSON FRESH MEATS, DAKOTA CITY, NE	2	2	100%	8	8	100%	None
ULTRA PET CO INC, ANDERSON, SC	1	0	0%	4	2	50%	1 Crude Protein 1 AH Fat
UNITED PET GROUP, CIBOLO, TX	1	1	100%	5	5	100%	None
VALLEY FARM CENTER INC, MONTICELLO, KY	4	4	100%	20	20	100%	None
VARIETY PET FOODS, ENGLEWOOD, CO	6	6	100%	80	80	100%	None

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VETERINARY PRESCRIPTION FEEDS, HICKORY, KY	2	0	0%	29	26	90%	1 Crude Fat, Min 1 Calcium, Min 1 Phosphorus, Min
VITA FLEX NUTRITION CO INC, COUNCIL BLUFF, IA	2	1	50%	17	16	94%	1 Vitamin A
VITAKRAFT PET PRODUCTS CO INC, BOUND BROOK, NJ	1	1	100%	4	4	100%	None
VITAKRAFT SUN SEED CO INC, BOWLING GREEN, OH	6	4	67%	29	26	90%	1 AH Fat 2 Crude Fiber, Max
W C MILLING LLC, SEAMAN, OH	2	1	50%	9	8	89%	1 Phosphorus, Min
W F YOUNG INC, EAST LONGMEADOW, MA	1	1	100%	7	7	100%	None
WAGATHA'S, MANCHESTER CTR, VT	2	0	0%	10	8	80%	1 AH Fat 1 Moisture
WAGNERS LLC DBA SHAFER SEED CO, OAKES, ND	1	0	0%	5	4	80%	1 Crude Fiber, Max
WALMART STORES INC, BENTONVILLE, AR	9	9	100%	112	112	100%	None
WATSON FEED, PRINCETON, KY	6	6	100%	28	28	100%	None
WELLNESS/OLD MOTHER HUBBARD, TEWKSBURY, MA	14	8	57%	142	134	94%	2 Crude Protein 4 AH Fat 1 Magnesium 1 Weight, Net
WESTERN TRADE GROUP, CARLSBORG, WA	1	0	0%	2	1	50%	1 Special
WESTWAY TRADING/I GOOD, NEW ORLEANS, LA	2	1	50%	12	11	92%	1 Vitamin A
WHOLE FOODS MARKET, AUSTIN, TX	7	4	57%	47	43	91%	2 Crude Protein 1 AH Fat 1 Ash
WILDERNESS FOODS MFG LTD, NEW ZEALAND, OO	1	0	0%	14	13	93%	1 AH Fat
WILLARD MILLING, INC, WILLARD, KY	14	9	64%	137	131	96%	1 Crude Protein 1 AH Fat 2 Calcium, Min 1 Copper 1 Zinc
WILLIE BAKERY, CLINTON, TN	1	0	0%	4	0	0%	1 Crude Protein 1 AH Fat 1 Moisture 1 Weight, Net
WILSON FARM SUPPLY INC, NANCY, KY	4	3	75%	13	12	92%	1 Crude Protein
WINCHESTER FEED & SUPPLY INC, WINCHESTER, KY	3	3	100%	27	27	100%	None
WITTE FEEDS INC, DALE, IN	5	5	100%	38	38	100%	None
WOODFORD FEED CO, VERSAILLES, KY	1	0	0%	9	8	89%	1 Phosphorus, Min
WOODYS PERFORMANCE HORSE FEED, DICKINSON, ND	1	0	0%	7	6	86%	1 Crude Protein
WRIGLEY 7-711 INC, WRIGLEY, KY	1	1	100%	5	5	100%	None
WYSONG CORP, MIDLAND, MI	1	1	100%	13	13	100%	None
YODERS FEED & SUPPLY, RUSSELLVILLE, KY	8	8	100%	54	54	100%	None
ZANUSA INC, BENTONVILLE, AR	1	1	100%	13	13	100%	None
ZOO MED LABORATORIES, INC., SAN LUIS OBISPO, CA	1	1	100%	4	4	100%	None
ZUKE'S, DURANGO, CO	2	1	50%	11	10	91%	1 Crude Protein

Analytical Variations

Regulatory officials use analytical variations (AV's) as a guide for issuing any type of violation with respect to 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 following many years of study to arrive at Official Methods. The AV's listed below allow for the inherent variability in those sources following the Official Methods with more weight given to the analytical areas of variation. The laboratory reported value of an analyte in a sample is reviewed with respect to the guarantee using the AV's 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%

Decoquinat	-20%	20%
Dichlorvos	-20%	30%
Hygromycin B	-25%	20%
Lasolocid	-25%	25%
Lincomycin	-25%	35%
Melegestrol Acetate	-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%
Virginamycin	-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
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LEXINGTON, KY 40546

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