


Regulatory Bulletin 315

2010 COMMERCIAL FEEDS IN KENTUCKY



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KENTUCKY COMMERCIAL FEED LAW

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The data presented in this publication is a required annual report of activities of the feed regulatory program. The report includes sample analyses and tonnage reports from the 2010 calendar year. The intent of this information is to provide those interested in feed products distributed in Kentucky with activities and information that can serve as an advisory tool.

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Introduction

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

Periodic law and regulation revisions have added additional requirements over the years 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 (GMPs). Any drug and feed additive use must conform to U.S. Food and Drug Administration (FDA) regulations. A major objective is to prevent unsafe residues in human food that may result from misused or contaminated feed. Several provisions are aimed at keeping poisonous and deleterious substances from being distributed in feeds.

Information in this report will inform and protect the feed purchaser, provide information for fair and equitable competition, and assist in assuring the safety of animal and human food. Registration of all feeds before distribution is required to ensure that correct label information is provided to the purchaser. Approximately 1,000 new product labels were reviewed this past year for guaranteed analysis, ingredient statements, and feeding directions for the intended animals or pets.

Medicated feed labels were reviewed for approved drug use and dosage; statement of drug purpose; and any required warning, caution, or special feeding instructions. Misleading and unsubstantiated information or claims are prohibited. Approximately 19,000 different commercial feeds and pet foods are currently registered for distribution by 1,185 feed companies. Approximately 260 manufacturing facilities are located in Kentucky, serving the feed and pet food industry with complete feeds, feed ingredients, or distribution of their own private label products.

Inspection and Sampling

The number of official samples obtained by field inspectors for the past three years is listed in Tables 1-3: feed ingredients in Table 1, complete feeds and supplements/premixes in Table 2, and specialty feeds in Table 3. During that period, the number of samples of feed ingredients and specialty feeds has remained about the same; complete feeds have shown some decline.

Table 1. Number of feed ingredients sampled.

Type	2010	2009	2008
Alfalfa Products	2	0	2
Animal Products	33	28	19
Barley Products	6	8	0
Corn Products	161	141	93
Cottonseed Products	10	8	16
Distillers Products	63	70	73
Mineral Ingredients	20	8	13
Molasses Products	3	4	5
Oat Products	6	9	3
Rice Products	8	0	2
Soybean Products	154	165	220
Wheat Products	9	14	13
Other	2	9	10
Total	477	464	469

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

Species/Type	2010	2009	2008
Poultry	128	137	154
Beef	237	224	334
Dairy	48	59	90
Swine	115	119	161
Sheep	9	2	21
Rabbit	24	27	31
Calf	35	43	68
Horse	188	199	369
Goat	35	38	60
Scratch & Gamebird	39	33	62
Fish Food	9	12	18
Custom Mix	72	86	120
Liquid	1	4	5
Blocks	11	26	38
Minerals	162	170	243
Drugs	13	11	12
Vitamins	4	9	6
Microbials	1	3	3
Other	138	137	265
Total	1,269	1,339	2,060

Table 3. Number of specialty feeds sampled.

Type	2010	2009	2008
Dry Dog Food	147	148	184
Soft-Moist Dog Foods	1	2	0
Canned Dog Foods	150	134	105
Dry Cat Foods	47	64	72
Canned Cat Foods	106	99	104
Specialty Dog & Cat Products	135	104	128
Specialty Pet Products	20	27	26
Aquarium Fish Foods	26	29	28
Specialty Bird Feeds	10	38	40
Total	642	645	687

Feed Mill Inspections

A comprehensive inspection program is important in maintaining safe feeds for animals. All feed mills must comply with good manufacturing practices (GMPs) that are assessed as part of such a program. The purpose of these inspections is to ensure approved drug levels are used, proper mixing procedures are followed, feed ingredients are monitored, good record keeping and good housekeeping protocols are followed, and a recall plan is in place.

The medicated feed mill program currently has two classifications: (1) mills that mix Category II Type A materials into feed must be licensed with FDA; and (2) mills that mix drugs commonly exempt and do not require an FDA license. Most Kentucky feed mills mix only exempt drugs.

BSE Rule Inspection

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

Food Safety

Any type of contamination in animal "food" would have potential impact on the Kentucky livestock industry and thus on human food, so food safety is an all-important concern for feed manufacturers and regulatory officials as well as the general public. The ultimate goal is to prevent any impact. Feed industry personnel have recently become

more focused on ingredient receiving and monitoring, defining ingredient storage conditions, maintaining clean storage and manufacturing facilities, increased record keeping, and having in place plans to remove contaminated feed from distribution in an emergency. GMP inspections now cover these aspects of feed handling, manufacturing, and distribution.

An investigation is warranted when animal or pet food has abnormal feed color or odor, presence of a foreign material, animals are refusing the food, or animals become sick or die. The division may seek information from local veterinarians, feed dealers, or feed manufacturers when these situations occur and may also take samples of feed. Our continued emphasis on frequent inspections, regular sampling, laboratory analysis, label reviews, and GMP inspections support efforts to maintain food safety and minimize any adverse impact.

Analysis and Product Suitability

The feed laboratory analyzes nutrients and other components in feed samples taken by field inspectors. The laboratory data is used to evaluate suitability of product labeling and verify absence of any contaminants or deleterious substances. Table 4 reports the number of various feed analyses conducted on samples in 2010.

Feed Labeling

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

food safety. In 2010, a full-time registration specialist reviewed product labels for compliance with applicable laws and regulations, and the field inspectors assisted many manufacturers with labeling questions, resulting in more uniform and informative labels. The program has made spreadsheets available to assist in establishing label guarantees and estimating nutritional suitability of some custom-mixed feeds. These services strengthen an excellent working relationship with the feed industry in Kentucky.

Financial Support

The feed regulatory program is supported by inspection fees of the commercial feeds sold in Kentucky, registration fees for small packaged items, and some support from the Kentucky General Assembly. The inspection fee of 35 cents per ton is paid on commercial feeds in packages weighing more than 10 pounds. Distiller's wet grains and other distiller's products of more than 75 percent moisture, whey, and brewer's wet grains distributed without further processing have 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 2010, the feed program collected a total of \$1,069,495 in inspection fees, registration fees, and late payment penalties.

Tonnage Distributed

Table 5 summarizes tonnage of Ingredients distributed in 2010. The term "exempt" indicates ingredients sold to other feed manufacturers in Kentucky that paid the inspection fees. "Non-exempt" represents ingredients for which the reporting firm paid the inspection fee. Table 6 reports the tonnage of complete feeds and supplements/premixes distributed during the year.

Table 4. Number of official feed analyses reported.

Analysis	2010	2009	2008	
Proximate	Crude Protein	2,148	2,202	2,796
	NPN Equivalent Protein (urea)	98	36	48
	Lysine	1	4	406
	Crude Fat	318	575	770
	Acid Hydrolysis Fat	379	586	577
	Crude Fiber	866	750	732
	Acid Detergent Fiber	162	150	101
	Sugar, Invert	0	0	0
	Ash	44	218	206
	Moisture	67	603	711
Minerals	Aluminum	0	0	2
	Calcium	1,694	1,634	2,016
	Cobalt	153	145	254
	Copper	855	837	1,071
	Fluorine	2	1	
	Iodine	0	1	
	Iron	345	362	412
	Magnesium	705	622	769
	Manganese	486	492	635
	Molybdenum	15	6	15
	Phosphorus	1,671	1,605	2,032
	Potassium	940	855	1,095
	Salt	840	921	1,016
	Selenium	243	127	4
	Sodium	427	329	436
	Sulfur	0	3	
Zinc	928	958	1,265	
Vitamins	Vitamin A	342	353	378
	Vitamin D	3	3	
	Vitamin E	0	2	1
Drugs	Amprolium	18	3	0
	Apramycin	0	1	
	Bacitracin	3	9	17
	Carbadox	2	5	2
	Chlortetracyclin	85	104	94
	Decoquinat	17	1	5
	Lasolocid	47	1	0
	Lincomycin	2	1	0
	Monensin	61	52	59
	Oxytetracycline	6	11	10
	Penicillin	0	1	2
	Sulfamthazine	0	1	
	Tylosin	10	7	9
	Virginiamycin	0	1	
Zoalene	0	0	0	
Mycotoxins	Aflatoxin	349	198	167
	Fumonisin	304	180	153
	Vomitoxin	107	99	31
Other	<i>L. Acidophilus</i> Bacteria	0	2	1
	Lactic Acid Bacteria	0	0	0
	Urease Activity	0	1	
	Yeast Count	0	2	1
	Ingredient Listing	33	32	46
Net Weight	418	548	573	
Total	15,194	15,640	18,918	

Table 5. Reported tons of ingredients distributed.

Ingredient	Exempt			Non-Exempt		
	2010	2009	2008	2010	2009	2008
Alfalfa Products	2,014	1,892	1,600	1,639	1,844	1,447
Animal Product	29,154	15,816	9,224	52,175	82,069	97,805
Barley Products	161	103	273	617	566	458
Beet Products	2,837	1,190	438	695	3,942	790
Brewer's Dried Products	90	122	108	8,632	13,465	13,770
Brewer's Wet Grains	0	0	0	96,042	7,031	5,177
Citrus Products	4,056	459	128	3,686	3,751	1,560
Corn Products	65,780	67,796	77,595	92,980	113,480	166,178
Cottonseed Products	11,411	13,373	24,336	6,477	4,436	8,740
Distillers Dried Grain	113,277	63,625	53,036	240,984	139,986	151,894
Distillers Stillage	0	0	0	152,161	329,036	359,140
Drugs	22	29	3	447	354	193
Fats & Oils	16,006	12,271	2,775	12,873	10,656	13,984
Grain Sorghum	0	0	0	14	0	381
Linseed & Flax	357	358	409	99	249	250
Marine Products	12	17	94	461	378	286
Milk Products	1,280	1,084	827	514	165	183
Minerals	23,769	25,318	26,483	69,721	73,606	73,745
Molasses Products	24,900	32,918	39,673	10,739	10,160	14,135
Oat Products	1,860	2,044	2,335	1,973	7,416	4,172
Peanut Products	3,596	3,818	4,402	32	277	617
Rice Products	11,793	11,357	22,112	6,616	3,306	10,503
Rye	0	0	0	88	46	450
Soybean Products	189,729	267,049	248,072	453,635	493,386	645,935
Urea & Other NPN	995	161	219	1,760	406	2,548
Vitamins	394	41	3,088	1,667	1,942	2,466
Wheat Products	58,241	51,218	61,965	21,118	35,018	42,800
Whey (Liquid)	0	0	0	12,032	11,318	8,611
Grain Sold & Mixed	88,974	109,222	133,982	0	0	0
Other	2,852	5,616	4,544	16,864	22,812	18,910
Total	653,560	686,897	717,721	1,266,741	1,371,101	1,647,128

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

Type	Complete			Supplement/Premix		
	2010	2009	2008	2010	2009	2008
Chicken Starter Grower	6,659	9,570	7,633	416	918	991
Chicken Broiler	6,198	11,561	10,974	35	131	113
Chicken Layer Breeder	27,058	30,032	24,102	681	1,354	922
Turkey	2,327	2,185	2,192	15	7	1,504
Beef	138,821	137,651	201,594	38,304	37,522	43,420
Dairy	102,352	114,969	129,871	25,142	26,198	27,741
Swine	4,895	5,557	5,981	2,771	4,129	4,605
Sheep	2,667	3,234	3,211	329	412	463
Calf	7,986	9,051	11,695	0	0	0
Horse	83,571	101,464	107,155	0	0	0
Pet Food	180,340	315,767	151,617	0	0	0
Fish	1,311	1,321	1,836	0	0	0
Rabbit	2,380	3,798	3,345	0	0	0
Scratch Feed	4,423	8,809	4,378	0	0	0
Custom Mix	202,374	239,486	458,352	0	0	0
Other	51,727	63,794	62,874	0	0	0
Dried Molasses	0	0	0	40	1	25
Drug Premixes	0	0	0	685	2,423	816
Liquid	0	0	0	7,737	7,230	2,032
Microbial Products	0	0	0	63	25	30
Minerals	0	0	0	24,411	18,596	20,625
Vitamin Premix	0	0	0	3,104	2,090	2,518
Total	825,089	1,058,249	1,186,810	103,733	101,036	105,805

Report of Official Feed Samples Analyzed—2010

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
4 SEASONS MARKETING LLC, FLEMINGSBURG, KY	37	27	73%	386	374	97%	3 Crude Protein 2 Calcium, Min 1 Magnesium 1 Salt, Min 1 Cobalt 1 Selenium 1 Copper 1 Calcium, Min 1 Phosphorus, Min 1 Potassium
4 SEASONS MARKETING, MANKATO, MN	1	0	0%	10	7	70%	1 Copper 1 Manganese 1 Zinc
ABENGOA BIOENERGY OF INDIANA, MT VERNON, IN	4	4	100%	25	25	100%	None
ABSORBENT PRODUCTS LTD, CANADA V2H 1E7	2	2	100%	12	12	100%	None
ABSORPTION CORP, FERNDALE, WA	1	1	100%	4	4	100%	None
ACCO FEEDS INC, MINNEAPOLIS, MN	1	1	100%	8	8	100%	None
ADAIRVILLE FEED MILL, ADAIRVILLE, KY	13	11	85%	76	73	96%	1 Crude Protein 1 Phosphorus, Min 1 Calcium, Min
ADI, HARDINSBURG, KY	5	1	20%	53	43	81%	3 Phosphorus, Min 3 Copper 4 Lasalocid
ADM (SOY PROCESSING), FRANKFORT, IN	1	1	100%	2	2	100%	None
ADM ALLIANCE NUTRITION INC, QUINCY, IL	12	6	50%	78	71	91%	3 Crude Protein 1 Acid Detergent Fiber 2 Calcium, Min 1 Vitamin A
ADM ALLIANCE NUTRITION, HENDERSON, KY	40	31	78%	294	284	97%	3 Crude Protein 1 NPN Equiv Protein 2 Crude Fiber, Max 1 Salt, Min 3 Vitamin A
ADM ALLIANCE NUTRITION, WEST PLAINS, MO	3	2	67%	22	21	95%	1 Vitamin A
ADM CORN PROCESSING, DECATUR, IL	10	10	100%	36	36	100%	None
ADM MILLING/ST LOUIS, SHAWNEE MISSION, KS	1	1	100%	4	4	100%	None
ADM PROCESSING, DECATUR, IL	2	2	100%	2	2	100%	None
AG DISTRIBUTORS INC, HARDINSBURG, KY	1	1	100%	8	8	100%	None
AGRI-KING, INC., FULTON, IL	1	1	100%	5	5	100%	None
ALDI INC, GREENWOOD, IN	7	7	100%	53	53	100%	None
ALLTECH, INC., NICHOLASVILLE, KY	2	2	100%	10	10	100%	None
ALPHARMA/REG AFFAIRS, BRIDGewater, NJ	2	2	100%	2	2	100%	None
ANDERSON FARM SERVICE, LAWRENCEBURG, KY	2	2	100%	15	15	100%	None
ANTLER KING TROPHY PRODUCTS, BLACK RIVER FALLS, WI	1	1	100%	4	4	100%	None
ARCHER DANIEL MIDLAND CO, DECATUR, IL	4	4	100%	10	10	100%	None
ARKAT FEEDS INC, DUMAS, AR	2	2	100%	15	15	100%	None
ARMADA GRAIN CO, ARMADA, MI	1	1	100%	7	7	100%	None
ASHLAND MILLING COMPANY INC, ASHLAND, KY	3	3	100%	15	15	100%	None
ASPEN PET PRODUCTS INC, DENVER, CO	1	1	100%	4	4	100%	None
AUTHORITY PET FOOD CO, PHOENIX, AZ	11	11	100%	98	98	100%	None
AZTECA MILLING LP, HENDERSON, KY	3	2	67%	20	19	95%	1 Crude Protein

Report of Official Feed Samples Analyzed—2010

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BAGDAD ROLLER MILLS, BAGDAD, KY	5	2	40%	26	23	88%	2 Crude Protein 1 Copper
BAKERY FEED INC, BUTLER, KY	1	1	100%	6	6	100%	None
BAKERY FEEDS INC, COLD SPRINGS, KY	9	8	89%	39	38	97%	1 Crude Protein
BARDSTOWN MILLS, BARDSTOWN, KY	12	3	25%	69	57	83%	5 Crude Protein 1 NPN Equiv Protein 2 Acid Detergent Fiber 1 Salt, Min 1 Selenium 1 Zinc 1 Vitamin A
BELL ROCK GROWER INC, SAN MARCOS, CA	1	1	100%	3	3	100%	None
BI-COUNTY FARM BUREAU COOP, FLORENCE, KY	2	0	0%	13	10	77%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min
BIG BARN FARM STORE, GARRISON, KY	7	5	71%	38	36	95%	2 Salt, Min
BLACK GOLD PET FOODS INC, VIENNA, MO	1	1	100%	13	13	100%	None
BLUE BUFFALO CO LTD, WILTON, CT	14	14	100%	138	138	100%	None
BLUE DOG BAKERY, SEATTLE, WA	1	1	100%	3	3	100%	None
BLUEGRASS AG DISTRIBUTORS, LANCASTER, KY	4	4	100%	16	16	100%	None
BLUEGRASS BARKERY, LEXINGTON, KY	3	1	33%	5	3	60%	2 AH Fat
BLUEGRASS SEED, BARDSTOWN, KY	1	1	100%	9	9	100%	None
BOEHRINGER-INGELHEIM VETMEDICA, ST. JOSEPH, MO	1	1	100%	11	11	100%	None
BOMAC VETS PLUS INC, KNAPP, WI	1	1	100%	4	4	100%	None
BOW WOW GIFTS INC, AURORA, OH	2	1	50%	5	4	80%	1 AH Fat
BOWLIN FEED INC, ALBANY, KY	2	2	100%	22	22	100%	None
BOWLING FEED & HDWE, CATLETTSBURG, KY	2	1	50%	17	15	88%	1 Copper 1 Zinc
BREEDERS CHOICE PET FOODS INC, IRWINDELE, CA	5	4	80%	51	50	98%	1 Crude Protein
BROOKSVILLE FARM SUPPLY, BROOKSVILLE, KY	2	1	50%	14	12	86%	1 Crude Protein 1 Copper
BRUMFIELD HAY & GRAIN, LEXINGTON, KY	1	1	100%	7	7	100%	None
BUFFALO TRACE DISTILLERY INC, FRANKFORT, KY	1	1	100%	5	5	100%	None
BUNGE MILLING, DANVILLE, IL	1	0	0%	7	6	86%	1 Crude Protein
BUNGE NORTH AMERICA (EAST) LLC, MORRISTOWN, IN	11	11	100%	19	19	100%	None
BUNGE NORTH AMERICA INC, CAIRO, IL	37	37	100%	37	37	100%	None
BUNGE NORTH AMERICA INC, DECATUR, AL	1	1	100%	1	1	100%	None
BURKMANN FEEDS OF EDMONTON, EDMONTON, KY	4	2	50%	23	21	91%	1 Calcium, Min 1 Salt, Min
BURKMANN FEEDS, BOWLING GREEN, KY	10	5	50%	50	42	84%	2 Crude Protein 1 Crude Fiber, Max 4 Calcium, Min 1 Salt, Min
BURKMANN FEEDS, DANVILLE, KY	81	58	72%	642	614	96%	5 Crude Protein 1 Crude Fiber, Max 2 Calcium, Min 2 Phosphorus, Min 7 Magnesium 3 Potassium 1 Zinc 5 Vitamin A 2 Amprolium

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BURKMANN FEEDS, EUBANK, KY	9	4	44%	43	38	88%	1 Crude Protein 1 Crude Fat, Min 3 Calcium, Min
BURKMANN FEEDS, GLASGOW, KY	23	21	91%	88	86	98%	2 Salt, Min
BURKMANN FEEDS, HARNED, KY	18	12	67%	110	103	94%	3 Crude Protein 1 Calcium, Min 2 Salt, Min 1 Copper
BURKMANN FEEDS, LONDON, KY	8	5	63%	39	34	87%	1 Crude Fiber, Max 2 Copper 2 Zinc
BUSCH AGRICULTURAL RESOURCES, JONESBORO, AR	6	6	100%	14	14	100%	None
CALCIUM PRODUCTS, SWAYZEE, IN	1	1	100%	3	3	100%	None
CALHOUN FEED SERVICE INC, MADISONVILLE, KY	5	4	80%	13	12	92%	1 Crude Protein
CALLIHAN FEEDS, ARGILLITE, KY	1	0	0%	6	5	83%	1 Crude Protein
CANEYVILLE MILLING INC, CANEYVILLE, KY	23	16	70%	94	85	90%	2 Crude Protein 2 Calcium, Min 4 Phosphorus, Min 1 Copper
CANYON CREEK RANCH, ANDERSON, SC	2	1	50%	4	3	75%	1 Crude Protein
CARDINAL LABORATORIES INC, AZUSA, CA	4	0	0%	21	16	76%	2 Crude Protein 1 AH Fat 1 Phosphorus, Min 1 Weight, Net
CARGILL - CORN MILLING DIV, DAYTON, OH	5	5	100%	20	20	100%	None
CARGILL ANIMAL NUTRITION, MINNEAPOLIS, MN	14	7	50%	120	113	94%	3 Calcium/Min 1 Copper 1 Magnesium 1 Potassium 1 Zinc 1 Vitamin A
CARGILL DRY CORN INGREDIENTS, PARIS, IL	3	3	100%	18	18	100%	None
CARGILL INC, WOOSTER, OH	3	2	67%	23	22	96%	1 Vitamin A
CARGILL NUTRENA FEEDS, FLORA, IL	3	3	100%	24	24	100%	None
CARGILL NUTRENA FEEDS, MENTONE, IN	3	2	67%	27	26	96%	1 Calcium, Min
CASTOR-POLLUX PET WORKS, CLACKAMAS, OR	5	3	60%	59	57	97%	1 AH Fat 1 Weight, Net
CELL RESPONSE FORMULATION LLC, JACKSON, WY	2	0	0%	26	24	92%	2 Crude Protein
CENTRAL FARM SUPPLY, LOUISVILLE, KY	1	3	43%	44	39	89%	1 Crude Fiber, Max 2 Calcium, Min 1 Vitamin A 1 Oxytetracycline
CENTRAL FARMERS SUPPLY, GREENSBURG, KY	7	5	71%	37	33	89%	1 Crude Protein 1 Crude Fat, Min 1 Phosphorus, Min 1 Copper
CENTRAL GARDEN & PET, FRANKLIN, WI	4	4	100%	11	11	100%	None
CHAMPION PETFOODS LP, CANADA T8R 1K7	1	1	100%	4	4	100%	None
CHARLEE BEAR FARMS INC, ST FRANCIS, WI	1	1	100%	2	2	100%	None
CHEMPHAR INC, AIKEN, SC	1	0	0%	2	1	50%	1 Calcium, Min
CHINA VITAMINS LLC, BEDMINSTER, NJ	1	1	100%	2	2	100%	None
CHS INC, INVER GROVE HEIGHTS, MN	3	3	100%	13	13	100%	None

Report of Official Feed Samples Analyzed—2010

Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
CLEMENTS AGRI-SUPPLY INC, SPRINGFIELD, KY	4	2	50%	20	18	90%	1 Crude Protein 1 Potassium
CLOUD STAR, SAN LUIS OBISPO, CA	2	2	100%	5	5	100%	None
COMMONWEALTH AGRI-ENERGY LLC, HOPKINSVILLE, KY	13	12	92%	61	60	98%	1 Crude Protein
COMPLETE NATURAL NUTRITION, CANADA MSM2HZ	1	1	100%	1	1	100%	None
CONSOLIDATED BLENDERS INC, HASTINGS, NE	2	2	100%	9	9	100%	None
CONSOLIDATED GRAIN & BARGE, MT VERNON, IN	16	16	100%	20	20	100%	None
COOKES FARM CENTER, IRONTON, OH	2	0	0%	14	11	79%	1 Crude Protein 1 Phosphorus, Min 1 Copper
COUNTRY ACRES FEED CO INC, BRENTWOOD, MO	3	2	67%	28	27	96%	1 Iron
COX VETERINARY LABORATORY, CHESTER, SC	1	0	0%	9	1	11%	1 Cobalt 1 Copper 1 Iron 1 Magnesium 1 Manganese 1 Potassium 1 Selenium 1 Zinc
CPC COMMODITIES LLC, FOUNTAIN RUN, KY	53	46	87%	294	284	97%	3 Crude Protein 2 NPN Equiv Protein 1 Crude Fiber, Max 2 Calcium, Min 2 Phosphorus, Min
CREEKSIDE FEED & FARM, MARION, KY	22	19	86%	111	107	96%	3 Crude Protein 1 Phosphorus, Min
CUB RUN MILLING CO, CANMER, KY	2	2	100%	15	15	100%	None
CUSTOM FEED MILL LLC, MORGANFIELD, KY	14	8	57%	104	97	93%	2 Crude Protein 1 Phosphorus, Min 1 Copper 3 Selenium
CUSTOM TRADING & BLENDING INC, TERRE HAUTE, IN	4	3	75%	17	16	94%	1 Crude Fat, Min
D & D COMMODITIES, STEPHEN, MN	1	1	100%	2	2	100%	None
DABNEY FEED & SUPPLY, SOMERSET, KY	2	0	0%	16	8	50%	2 Crude Protein 1 Crude Fiber, Max 1 Acid Detergent Fiber 1 Calcium, Min 1 Phosphorus, Min 1 Copper 1 Zinc
DAD'S PET CARE, MEADVILLE, PA	2	2	100%	5	5	100%	None
DAVENPORT FARM SUPPLY, FLEMINGSBURG, KY	3	3	100%	21	21	100%	None
DEL MONTE PET PRODUCTS, PITTSBURGH, PA	21	20	95%	184	183	99%	1 Crude Protein
DESIGNING HEALTH INC, VALENCIA, CA	1	1	100%	5	5	100%	None
DIAMOND PET FOODS CO, META, MO	9	6	67%	95	92	97%	3 Calcium, Min
DICK VAN PATTEN'S, PACOIMA, CA	8	7	88%	61	60	98%	1 AH Fat
DINGO BRAND LLC, ISLANDIA, NY	1	1	100%	2	2	100%	None
DIVERSIFIED INGREDIENTS, ST LOUIS, MO	1	1	100%	2	2	100%	None
DOANE PET CARE, BRENTWOOD, TN	4	4	100%	14	14	100%	None
DOGSWELL LLC, LOS ANGELES, CA	3	2	67%	17	15	88%	1 AH Fat 1 Weight, Net

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DOLGENCORP LLC, GOODLETTSVILLE, TN	10	10	100%	118	118	100%	None
DZA BRANDS LLC, SALISBURY, NC	5	4	80%	51	49	96%	1 Magnesium 1 Weight, Net
EIGHT IN ONE PET PRODUCTS, ISLANDIA, NY	4	3	75%	29	28	97%	1 Crude Protein
ELANCO ANIMAL HEALTH, GREENFIELD, IN	1	1	100%	1	1	100%	None
EMBASSY INTERNATIONAL, INC., CINCINNATI, OH	1	1	100%	8	8	100%	None
EQUITY GROUP KENTUCKY DIVISION, FRANKLIN, KY	24	24	100%	59	59	100%	None
EVANGERS DOG & CAT FOOD CO INC, WHEELING, IL	3	0	0%	26	18	69%	2 Crude Protein 1 AH Fat 1 Copper 2 Manganese 1 Zinc 1 Weight, Net
EVOLVED HABITATS, BATON ROUGE, LA	1	1	100%	4	4	100%	None
EXCLUSIVELY PET INC, MILWAUKEE, WI	2	2	100%	4	4	100%	None
F M BROWNS SONS INC, SINKING SPRING, PA	4	1	25%	16	13	81%	3 Crude Protein
F/K/A BLUE SEAL FEEDS INC, LONDONDERRY, NH	6	2	33%	61	57	93%	1 Crude Protein 1 AH Fat 1 Potassium 1 Zinc
FAITHWAY FEED CO INC, GUNTERSVILLE, AL	3	2	67%	22	20	91%	1 Calcium, Min 1 Cobalt
FARMER'S CHOICE FEED MILL, KIRKSEY, KY	1	0	0%	6	5	83%	1 Crude Protein
FARMERS FEED MILL, LEXINGTON, KY	11	8	73%	83	80	96%	1 Crude Fat, Min 1 Calcium, Min 1 Salt, Min
FARNAM CO/HORSE PRODUCTS DIV, PHOENIX, AZ	5	3	60%	35	31	89%	1 Iron 1 Magnesium 1 Potassium 1 Zinc
FINISH LINE HORSE PRODUCTS, BENSENVILLE, IL	1	1	100%	3	3	100%	None
FISHBELT FEEDS INC, MOORHEAD, MS	1	1	100%	3	3	100%	None
FIVE STAR FEED SERVICE, HOPKINSVILLE, KY	3	1	33%	25	23	92%	1 Crude Fat, Min 1 Zinc
FLUKER FARMS INC, PORT ALLEN, LA	2	0	0%	9	7	78%	1 Crude Protein 1 Weight, Net
FOOD LION STORES, SALISBURY, NC	4	4	100%	41	41	100%	None
FRANK HINTON & SON, PLUMMERS LANDING, KY	11	8	73%	53	50	94%	2 Crude Protein 1 Acid Detergent Fiber
FRANKLIN INDUSTRIAL MINERALS, BRENTWOOD, TN	1	1	100%	1	1	100%	None
FREDS INC, MEMPHIS, TN	9	7	78%	94	92	98%	1 AH Fat 1 Weight, Net
FROMM FAMILY FOODS LLC, MEQUON, WI	4	4	100%	34	34	100%	None
G & B MARKETING INC, VISTA, CA	1	1	100%	12	12	100%	None
G M TAYLOR SEED CO, GEORGETOWN, KY	2	1	50%	12	10	83%	1 Crude Protein 1 Copper
GHC MILLING, FORDSVILLE, KY	20	15	75%	108	103	95%	4 Salt, Min 1 Vitamin A
GILLIAMS FARM SUPPLY, OLIVE HILL, KY	2	2	100%	12	12	100%	None
GOLD CITY FEED MILL, FRANKLIN, KY	1	1	100%	7	7	100%	None
GOLDENROD FEEDS, LIBERTY, KY	6	5	83%	26	25	96%	1 Calcium, Min

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
GRAIN PROCESSING CORPORATION, WASHINGTON, IN	7	7	100%	21	21	100%	None
GRANDMA MAE'S COUNTRY NATURALS, NEW YORK, NY	2	1	50%	24	23	96%	1 Crude Protein
GREEN PLAINS OBION, RIVES, TN	3	3	100%	16	16	100%	None
GREEN RIVER FEED MILL, MORGANTOWN, KY	13	8	62%	65	58	89%	3 Crude Protein 1 Calcium, Min 3 Phosphorus, Min
GREENLEAF COMMODITIES, DANVILLE, KY	4	4	100%	27	27	100%	None
GRIFFIN INDUSTRIES INC, BUTLER, KY	3	1	33%	8	6	75%	1 Crude Protein 1 AH Fat
GRIFFIN INDUSTRIES INC, COLD SPRINGS, KY	1	1	100%	4	4	100%	None
GRIFFIN INDUSTRIES INC, RUSSELLVILLE, KY	1	0	0%	4	3	75%	1 Crude Protein
GRIFFIN INDUSTRIES INC, UNION CITY, TN	2	1	50%	8	6	75%	1 Crude Protein 1 Calcium, Min
HANBY FARMS FEED & SUPPLY, NASHPORT, OH	2	2	100%	11	11	100%	None
HANSEN MUELLER CO, SANDUSKY, OH	2	2	100%	6	6	100%	None
HARTZ MOUNTAIN CORPORATION, SECAUCUS, NJ	4	4	100%	11	11	100%	None
HBH ENTERPRISES, SPRINGVILLE, UT	3	3	100%	7	7	100%	None
HEALTH-PRO NUTRITION, PICO RIVERA, CA	2	1	50%	11	9	82%	1 Manganese 1 Zinc
HEALTHY COAT, GIBSON, IA	1	1	100%	1	1	100%	None
HEALTHY PET FOODS/INTEGRATED P, WEST CHESTER, PA	1	0	0%	12	11	92%	1 AH Fat
HIKARI SALES USA INC, HAYWARD, CA	1	1	100%	2	2	100%	None
HILLS PET NUTRITION INC, TOPEKA, KS	10	10	100%	109	109	100%	None
HISEVILLE FEED & SEED COMPANY, HISEVILLE, KY	1	1	100%	10	10	100%	None
HOOVERS FEED MILL, SCOTTSVILLE, KY	9	9	100%	50	50	100%	None
HORSE HEALTH PRODUCTS, PHOENIX, AZ	1	0	0%	9	8	89%	1 Selenium
HOWE FARM SUPPLY, VANCEBURG, KY	1	1	100%	5	5	100%	None
HUBBARD FEEDS INC, HOPKINSVILLE, KY	40	30	75%	284	272	96%	3 Crude Protein 4 Crude Fiber, Max 2 Phosphorus, Min 1 Salt, Min 1 Selenium 1 Vitamin A
HUBBARD FEEDS INC, MANKATO, MN	9	7	78%	65	63	97%	1 Magnesium 1 Molybdenum
HUNTERS SPECIALTIES INC, CEDAR RAPIDS, IA	1	0	0%	8	7	88%	1 Calcium, Min
HUTCHWAY FEED & FARM SUPPLY, NORTH MIDDLETOWN, KY	1	1	100%	2	2	100%	None
HYLAND CO INC, ASHLAND, KY	20	17	85%	92	89	97%	1 AH Fat 2 Calcium, Min
IAMS FOOD COMPANY, LEWISBURG, OH	20	20	100%	180	180	100%	None
ICE'S PRODUCE, BARDSTOWN, KY	3	2	67%	12	11	92%	1 Crude Fat, Min
INTEGRITY FEEDS LLC, HARDIN, KY	9	7	78%	55	53	96%	2 Crude Fat, Min
INTEGRITY FEEDS LLC, OWENSBORO, KY	8	3	38%	64	58	91%	1 Crude Protein 2 Calcium, Min 1 Salt, Min 1 Copper 1 Zinc

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INTEGRITY FEEDS LLC, PARK CITY, KY	38	18	47%	239	203	85%	12 Crude Protein 4 Calcium, Min 1 Crude Fat, Min 6 Phosphorus, Min 6 Salt, Min 1 Potassium 4 Selenium 2 Zinc
INTEGRITY FEEDS, MADISONVILLE, KY	1	0	0%	10	9	90%	1 Crude Fat, Min
INTER AMERICAN, CINCINNATI, OH	16	14	88%	121	119	98%	2 Crude Protein
INTL PET SUPPLIES/DISTRIBUTION, SAN DIEGO, CA	1	1	100%	3	3	100%	None
JABETOWN MILL, EWING, KY	3	3	100%	16	16	100%	None
JBS UNITED INC, SHERIDAN, IN	1	1	100%	8	8	100%	None
JEFFRIES FEED SEED & SUPPLY, CAMPBELLSVILLE, KY	4	4	100%	24	24	100%	None
JOY PET FOODS, ST MARYS, OH	3	3	100%	29	29	100%	None
JRB FOODS INC, SHARON CENTER, OH	2	2	100%	4	4	100%	None
KALMBACH FEEDS INC, UPPER SANDUSKY, OH	23	18	78%	196	191	97%	1 Lasalocid 2 Selenium 1 Vitamin A 1 Zinc
KAYTEE PRODUCTS INC, CHILTON, WI	3	2	67%	11	10	91%	1 Crude Fiber, Max
KELLY FOODS CORPORATION, BERLIN, MD	1	1	100%	13	13	100%	None
KEN'S VALUE CENTER, BERRY, KY	1	1	100%	11	11	100%	None
KENT FEEDS INC, LOUISVILLE, KY	8	7	88%	79	77	97%	1 Copper 1 Vitamin A
KENT NUTRITION GROUP INC, MUSCATINE, IA	11	9	82%	64	62	97%	2 Crude Protein
KENTUCKY EQUINE RESEARCH INC, VERSAILLES, KY	2	2	100%	7	7	100%	None
KENTUCKY NUTRITION SERVICE, LAWRENCEBURG, KY	16	14	88%	171	169	99%	1 NPN Equiv Protein 1 Vitamin A
KENTUCKY ORGANICS FARM & FEED, PEMBROKE, KY	1	1	100%	1	1	100%	None
KENTUCKY PERFORMANCE PRODUCTS, VERSAILLES, KY	2	1	50%	11	9	82%	1 Copper 1 Chromium
KENTUCKY RAIL TRANSPORT INC, BOWLING GREEN, KY	17	8	47%	102	87	85%	4 Crude Protein 2 Calcium, Min 2 Phosphorus, Min 1 Salt, Min 5 Copper 1 Zinc
KINETIC TECHNOLOGIES LLC, LEXINGTON, KY	1	1	100%	6	6	100%	None
KLN ENTERPRISES INC, PERHAM, MN	10	9	90%	79	78	99%	1 Crude Protein
KONG COMPANY, GOLDEN, CO	1	1	100%	3	3	100%	None
KROGER, CINCINNATI, OH	3	3	100%	26	26	100%	None
K-STAR COMMODITIES, HOPKINSVILLE, KY	6	0	0%	53	42	79%	1 NPN Equiv Protein 3 Calcium, Min 5 Zinc 1 Vitamin A 1 Monensin Sodium
LAFEFER COMPANY, CORNELL, IL	1	0	0%	2	1	50%	1 Crude Protein
LAKE CUMBERLAND MILLING LLC, MONTICELLO, KY	1	1	100%	5	5	100%	None
LAMA WELLNESS SERVICE INC, HENDERSON, KY	1	1	100%	15	15	100%	None

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LAND O'LAKES PURINA FEED LLC, SHOREVIEW, MN	2	2	100%	14	14	100%	None
LAWRENCEBURG DISTILLERS IN LLC, LAWRENCEBURG, IN	7	6	86%	41	39	95%	1 Crude Protein 1 Crude Fat, Min
LEMSTERS MILL LLC, SMITHS GROVE, KY	3	2	67%	16	15	94%	1 Crude Protein
LEO GABBARD, WEST HARRISON, IN	1	1	100%	2	2	100%	None
LESTER STUTZMAN FEED MILL, MARION, KY	13	8	62%	76	70	92%	4 Phosphorus, Min 1 Copper 1 Zinc
LIFE DATA LABS INC, CHEROKEE, AL	1	0	0%	13	12	92%	1 Vitamin A
LINCOLNLAND AGRI-ENERGY, PALESTINE, IL	1	1	100%	1	1	100%	None
LOVING PETS PRODUCTS, CRANBURY, NJ	2	2	100%	3	3	100%	None
LOWES PELLETS & GRAIN INC, GREENSBURG, IN	3	3	100%	17	17	100%	None
LUTTRULL FEED SERVICE, PEMBROKE, KY	1	0	0%	8	6	75%	1 Crude Protein 1 Phosphorus, Min
M & W MILLING COMPANY INC, COLUMBIA, KY	2	2	100%	14	14	100%	None
MANNA PRO PRODUCTS, LLC, ST LOUIS, MO	3	2	67%	28	27	96%	1 Vitamin A
MARION FEED MILL INC, MARION, KY	2	2	100%	16	16	100%	None
MARS PETCARE US INC, FRANKLIN, TN	13	13	100%	134	134	100%	None
MARTINS FEED & SUPPLY, LIBERTY, KY	8	6	75%	30	28	93%	2 Crude Protein
MAYS LICK MILL, MAYS LICK, KY	4	4	100%	21	21	100%	None
MAZELIN FEED MILL, SCOTTSVILLE, KY	6	4	67%	36	34	94%	1 Crude Protein 1 Copper
MCCAULEY BROS INC, VERSAILLES, KY	5	5	100%	36	36	100%	None
MCGAHAN & COMPANY, PAINTSVILLE, KY	5	1	20%	29	24	83%	3 Crude Protein 1 Calcium, Min 1 Vitamin A
MCRAY FEED LLC, HARRRODSBURG, KY	13	11	85%	84	81	96%	1 Crude Fiber, Max 2 Zinc
MEIJER INC, GRAND RAPIDS, MI	6	6	100%	37	37	100%	None
MELICK AQUA FEED INC, CATAWISSA, PA	2	2	100%	14	14	100%	None
MERRICK PET CARE INC, AMARILLO, TX	10	9	90%	102	101	99%	1 Crude Protein
MFS ALLIANCE INC, EDMONTON, KY	11	10	91%	46	44	96%	1 Salt, Min 1 Decoquinat
MID-SOUTH MILLING CO, MEMPHIS, TN	14	14	100%	59	59	100%	None
MID-STATES DISTRIBUTING CO, ST. PAUL, MN	5	5	100%	48	48	100%	None
MIDWESTERN PET FOODS INC, EVANSVILLE, IN	11	4	36%	101	94	93%	4 Crude Fat, Min 3 Calcium, Min
MILK SPECIALTIES COMPANY, CARPENTERSVILLE, IL	1	1	100%	6	6	100%	None
MIRACLE CORP PRODUCTS, DAYTON, OH	1	1	100%	5	5	100%	None
MOSAIC CROP NUTRITION LLC, LITHIA, FL	3	3	100%	9	9	100%	None
MRS PASTURES COOKIES FOR HORSE, WALNUT CREEK, CA	1	1	100%	3	3	100%	None
MULLICAN FEED/INTEGRITY FEEDS, OWENSBORO, KY	5	2	40%	35	29	83%	1 Crude Protein 1 Calcium, Min 2 Phosphorus, Min 1 Salt, Min 1 Selenium
NATIONAL STARCH & CHEM CO, INDIANAPOLIS, IN	2	2	100%	4	4	100%	None
NATURA PET PRODUCTS, FREMONT, NE	13	11	85%	114	112	98%	1 Crude Protein 1 AH Fat

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NATURAL LIFE PET PRODUCTS, PITTSBURG, KS	6	4	67%	60	57	95%	1 Crude Protein 1 AH Fat 1 Calcium, Min
NATURE ZONE, CHICO, CA	1	1	100%	2	2	100%	None
NATURES RECIPE PET FOODS, PITTSBURGH, PA	5	4	80%	52	51	98%	1 Crude Protein
NESTLE PURINA PETCARE CO, ST LOUIS, MO	20	17	85%	164	161	98%	3 Crude Protein
NEW ENERGY CORP, SOUTH BEND, IN	6	6	100%	28	28	100%	None
NEWMANS OWN ORGANICS, APTOS, CA	9	8	89%	90	88	98%	1 Crude Protein 1 Calcium, Min
NORTH AMERICAN SALT CO, OVERLAND PARK, KS	1	1	100%	1	1	100%	None
NORTHERN PET PRODUCTS INC, CANADA L4K 1Y7	1	1	100%	12	12	100%	None
NUTRENA, MINNEAPOLIS, MN	4	4	100%	26	26	100%	None
NUTRO PRODUCTS INC, FRANKLIN, TN	24	23	96%	235	234	100%	1 Vitamin A
NYLABONE PRODUCTS, NEPTUNE, NJ	1	1	100%	1	1	100%	None
OCEAN NUTRITION, SALT LAKE CITY, UT	1	1	100%	2	2	100%	None
ODOM'S LIVESTOCK SUPPLY, MAYFIELD, KY	4	1	25%	22	19	86%	1 Crude Fat, Min 2 Salt, Min
OHIO PET FOODS INC, LISBON, OH	1	1	100%	3	3	100%	None
OMEGA SEA LTD, PERRY, OH	2	1	50%	6	5	83%	1 Weight, Net
ORALX CORPORATION, OGDEN, UT	1	0	0%	3	2	67%	1 Crude Protein
ORGANIC VALLEY/CROPP COOP, LAFARGE, WI	2	2	100%	5	5	100%	None
ORSCHLON FARM & HOME, MOBERLY, MO	5	4	80%	32	31	97%	1 Crude Protein
OVERBY FARM LLC, BLOOMFIELD, MI	1	1	100%	2	2	100%	None
OWENSBORO GRAIN CO INC, OWENSBORO, KY	33	33	100%	41	41	100%	None
OXBOW ENTERPRISES, MURDOCK, NE	1	1	100%	2	2	100%	None
PACIFIC COAST DISTRIBUTING, PHOENIX, AZ	11	11	100%	90	90	100%	None
PAMPERED PET TREATS, ALPINE, CA	1	1	100%	3	3	100%	None
PAW PRINTS BAKERY LLC, WINCHESTER, KY	1	1	100%	3	3	100%	None
PENNWOODS EQUINE PRODUCTS INC, CENTRE HALL, PA	1	0	0%	4	3	75%	1 Phosphorus, Min
PERFORMANCE FEEDS, RED BOILING SPGS, TN	4	2	50%	24	20	83%	1 Crude Protein 1 Calcium, Min 2 Phosphorus, Min
PERFORMANCE FOODS INC, BROOMFIELD, CO	1	1	100%	5	5	100%	None
PET NATURALS OF VERMONT, ESSEX JUNCTION, VT	2	1	50%	12	11	92%	1 Crude Protein
PET-AG INC, HAMPSHIRE, IL	5	5	100%	27	27	100%	None
PETGUARD INC, GREEN COVE SPGS, FL	9	6	67%	98	95	97%	1 AH Fat 2 Calcium, Min
PETRAPPART INC, NORTH BERGEN, NJ	3	2	67%	20	19	95%	1 AH Fat
PMI NUTRITION INC, BRENTWOOD, MO	1	1	100%	7	7	100%	None
PMI NUTRITIONAL INTL INC, ST LOUIS, MO	1	0	0%	8	7	88%	1 AH Fat
PREMIER FEED COMPANY, SABINA, OH	2	0	0%	18	14	78%	1 Acid Detergent Fiber 1 Copper 1 Magnesium 1 Selenium
PREMIUM NUTRITIONAL PRODUCTS, MISSION, KS	2	2	100%	5	5	100%	None
PREWITTS FEED & FARM SUPPLY, WILLIAMSBURG, KY	1	1	100%	6	6	100%	None
PRINCE AGRI PRODUCTS INC, QUINCY, IL	1	0	0%	5	4	80%	1 Iron
PRODUCER FEEDS, LOUISVILLE, KY	13	12	92%	101	99	98%	1 Calcium, Min 1 Magnesium

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PROFESSIONAL PET CO, META, MO	2	2	100%	23	23	100%	None
PROGRESSIVE NUTRITION, HARLAN, IA	5	3	60%	46	44	96%	2 Vitamin A
PRO-PET LLC, ST MARYS, OH	2	2	100%	25	25	100%	None
PROVIMI NORTH AMERICA INC, BROOKVILLE, OH	5	5	100%	42	42	100%	None
PURINA MILLS INC, FRANKFORT, IN	7	5	71%	50	48	96%	1 Salt, Min 1 Amprolium
PURINA MILLS INC, MILFORD, IN	2	2	100%	12	12	100%	None
PURINA MILLS INC, NASHVILLE, TN	38	35	92%	252	248	98%	1 Crude Protein 1 Crude Fat, Min 2 Calcium, Min
PURINA MILLS INC, ST. LOUIS, MO	11	11	100%	80	80	100%	None
PURINA MILLS INC, VANDALIA, IL	5	3	60%	47	45	96%	1 Crude Fiber, Max 1 Potassium
PURINA MILLS, EVANSVILLE, IN	7	6	86%	81	80	99%	1 Cobalt
RED A FEEDS, MANKATO, MN	3	3	100%	19	19	100%	None
REDBARN PET PRODUCTS INC, LONG BEACH, CA	2	1	50%	3	2	67%	1 Crude Protein
RENAISSANCE NUTRITION INC, ROARING SPRING, PA	5	2	40%	38	35	92%	1 Crude Protein 1 Acid Detergent Fiber 1 Selenium
RICHDEL INC, CARSON CITY, NV	2	2	100%	19	19	100%	None
RIDLEY BLOCK OPERATIONS, MANKATO, MN	5	3	60%	44	40	91%	1 Crude Protein 1 Calcium, Min 1 Cobalt 1 Selenium
RIP'S FARM CENTER, TOLLESBORO, KY	24	16	67%	141	131	93%	3 Crude Protein 1 NPN Equiv Protein 2 Calcium, Min 1 Phosphorus, Min 1 Copper 1 Potassium 1 Zinc
RIVER VALLEY ANIMAL FOODS, ROBARDS, KY	3	3	100%	14	14	100%	None
ROGERS GROUP INC, BLOOMINGTON, IN	1	1	100%	3	3	100%	None
ROLF C. HAGEN (USA) CORP, MANSFIELD, MA	1	1	100%	3	3	100%	None
ROSE ACRE FARMS INC, SEYMOUR, IN	4	3	75%	5	4	80%	1 Crude Protein
ROUDYBUSH INC, WOODLAND, CA	1	1	100%	2	2	100%	None
ROYAL CANIN USA INC, ST CHARLES, MO	2	2	100%	25	25	100%	None
RUCKELS FARM SUPPLY, WAYNESBURG, KY	6	2	33%	33	26	79%	1 Crude Protein 1 Crude Fiber, Max 1 Calcium, Min 1 Phosphorus, Min 3 Zinc
RUDYS FARM CENTER, KEVIL, KY	3	3	100%	17	17	100%	None
RUSH DIRECT INC, WOOD DALE, IL	3	3	100%	6	6	100%	None
RUTHERFORD FARMERS COOP, EAGLEVILLE, TN	1	1	100%	9	9	100%	None
S & M NUTEC LLC, N KANSAS CITY, MO	1	1	100%	4	4	100%	None
S S BOYLE BRANCH, DANVILLE, KY	4	4	100%	24	24	100%	None
S S BRECK, HARDINSBURG, KY	2	1	50%	16	15	94%	1 Copper
S S CAMPBELLSVILLE BRANCH, CAMPBELLSVILLE, KY	4	4	100%	9	9	100%	None

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
S S COOP INC - FEED DIV, WINCHESTER, KY	96	79	82%	754	737	98%	5 Crude Protein 6 Copper 1 Potassium 5 Vitamin A
S S COOP INC, RICHMOND, VA	6	6	100%	43	43	100%	None
S S FLEMINGSBURG, FLEMINGSBURG, KY	1	1	100%	7	7	100%	None
S S HARDIN-HODGENVILLE BRANCH, HODGENVILLE, KY	3	2	67%	11	10	91%	1 Crude Protein
S S LEITCHFIELD, LEITCHFIELD, KY	3	2	67%	20	19	95%	1 Crude Protein
S S LONDON, LONDON, KY	2	2	100%	12	12	100%	None
S S OWINGSVILLE SVC, OWINGSVILLE, KY	1	1	100%	5	5	100%	None
S S SOMERSET, SOMERSET, KY	2	1	50%	8	7	88%	1 Crude Fat, Min
S S SPRINGFIELD SVC, SPRINGFIELD, KY	2	2	100%	12	12	100%	None
S. S. COOP INC, PARK CITY, KY	3	2	67%	36	35	97%	1 Vitamin A
SAMMY SNACKS INC, CHARLOTTESVILLE, VA	1	0	0%	10	9	90%	1 Calcium, Min
SAN FRANCISCO BAY BRAND INC, NEWARK, CA	2	2	100%	4	4	100%	None
SAVE-A-LOT LTD, EARTH CITY, MO	7	6	86%	64	63	98%	1 Crude Protein
SCHELL & KAMPETER, ST THOMAS, MO	2	0	0%	21	19	90%	2 Calcium, Min
SCHOCHOH MILLS INC, ADAIRVILLE, KY	7	5	71%	41	39	95%	1 Crude Protein 1 Acid Detergent Fiber
SCIENCE HILL MILLING CO, SCIENCE HILL, KY	9	9	100%	51	51	100%	None
SCOTT PET PRODUCTS, ROCKVILLE, IN	1	0	0%	2	1	50%	1 Crude Protein
SEEDS INC, MEMPHIS, TN	5	2	40%	46	43	93%	1 Crude Protein 2 Calcium, Min
SEITER FARMS, CALIFORNIA, KY	1	1	100%	5	5	100%	None
SEMO MILLING, SCOTT CITY, MO	3	3	100%	17	17	100%	None
SERGEANTS PET CARE PRODUCTS, OMAHA, NE	3	3	100%	7	7	100%	None
SEVENTY FEEDS LLC, EUBANK, KY	9	7	78%	40	38	95%	2 Crude Fat, Min
SIEMER MILLING CO, TEUTOPOLIS, IL	1	1	100%	4	4	100%	None
SIEMER MILLING COMPANY, HOPKINSVILLE, KY	2	2	100%	7	7	100%	None
SIMMONS PET FOOD INC, SILOAM SPRINGS, AR	6	6	100%	53	53	100%	None
SMITH SOUTH SIDE FEED & GRAIN, BOWLING GREEN, KY	11	8	73%	72	67	93%	1 Crude Protein 1 Calcium, Min 3 Zinc
SO BRIGHT LLC, EVERGREEN, CO	1	1	100%	3	3	100%	None
SOJOURNER FARMS, MINNEAPOLIS, MN	1	0	0%	3	2	67%	1 AH Fat
SOLID GOLD HEALTH PRODUCTS, EL CAJON, CA	5	2	40%	35	32	91%	2 Crude Protein 1 AH Fat
SOUTHEASTERN MINERALS INC, BAINBRIDGE, GA	1	1	100%	5	5	100%	None
SPECIALTY FEEDS INC, MEMPHIS, TN	3	2	67%	23	22	96%	1 Calcium, Min
SPORTFORCE LLC, LEXINGTON, KY	1	1	100%	5	5	100%	None
STARMASTER FEEDS, THORNVILLE, OH	1	0	0%	8	7	88%	1 Zinc
STEWARTS FARM SUPPLY, BROOKSVILLE, KY	5	3	60%	32	30	94%	1 Crude Fiber, Max 1 Acid Detergent Fiber
STUD MUFFINS, CANADA V3A 6E1, 00	1	0	0%	4	1	25%	1 Crude Protein 1 AH Fat 1 Weight, Net
SUGAR CREEK PET PRODUCTS LLC, META, MO	1	1	100%	1	1	100%	None
SUNSHINE MILLS INC, RED BAY, AL	9	7	78%	69	67	97%	1 Crude Protein 1 Weight, Net

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Name	Samples			Tests			Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
SUPERIOR AG, JASPER, IN	11	4	36%	101	92	91%	1 Crude Protein 1 Phosphorus, Min 1 Salt, Min 2 Copper 2 Magnesium 1 Selenium 1 Vitamin A
SUPREME PET PRODUCTS, FERNDALE, WA	2	2	100%	8	8	100%	None
SWEETLIX LLC, MANKATO, MN	2	2	100%	18	18	100%	None
T & H FEED SERVICE, LEBANON, KY	2	1	50%	12	11	92%	1 Calcium, Min
TARGET CORPORATION, MINNEAPOLIS, MN	5	5	100%	48	48	100%	None
TARGETED PET TREATS LLC, MEADVILLE, PA	1	1	100%	3	3	100%	None
TASTE OF THE WILD, META, MO	6	4	67%	66	64	97%	1 AH Fat 1 Zinc
TENNESSEE FARMERS COOPERATIVE, LAVERGNE, TN	24	10	42%	234	218	93%	5 Copper 2 Magnesium 8 Potassium 1 Vitamin A
TETRA HOLDING (US)/TETRA WERKE, BLACKSBURG, VA	2	2	100%	6	6	100%	None
THE SCOTTS COMPANY LLC, MARYSVILLE, OH	1	1	100%	3	3	100%	None
THREE DOG BAKERY, KANSAS CITY, MO	6	4	67%	34	32	94%	1 Crude Fat, Min 1 AH Fat
TIZWHIZ SALES LTD, SOUTH CHARLESTON, OH	2	2	100%	19	19	100%	None
TRACTOR SUPPLY COMPANY, BRENTWOOD, TN	16	9	56%	138	130	94%	1 Crude Protein 2 AH Fat 1 Calcium, Min 1 Copper 1 Selenium 1 Vitamin A 1 Weight, Net
T-REX PRODUCTS, CHULA VISTA, CA	2	1	50%	5	4	80%	1 Crude Fiber, Max
TRI-COUNTY FEEDS, LIBERTY, KY	9	4	44%	48	43	90%	2 Crude Protein 2 Crude Fiber, Max 1 Phosphorus, Min
TRI-COUNTY FERTILIZER, RICHMOND, KY	4	4	100%	16	16	100%	None
TRIPLE CROWN NUTRITION INC, WAYZATA, MN	1	1	100%	4	4	100%	None
TRM IRELAND INC, STREETSBORO, OH	1	1	100%	10	10	100%	None
TUGGLE FEEDS, HARRODSBURG, KY	2	2	100%	7	7	100%	None
TWO RIVERS INC, DRAKESBORO, KY	4	0	0%	26	21	81%	2 Crude Protein 2 Copper 1 Zinc
TYSON FRESH MEATS INC, DAKOTA DUNES, SD	2	1	50%	9	7	78%	1 Crude Fat, Min 1 Crude Fiber, Max
TYSON FRESH MEATS, DAKOTA CITY, NE	1	0	0%	5	2	40%	1 AH Fat 1 Calcium, Min 1 Phosphorus, Min
UNITED PET GROUP, CIBOLO, TX	1	1	100%	2	2	100%	None
UNITED SALT CORP, HOUSTON, TX	1	0	0%	8	7	88%	1 Calcium, Min
VALLEY FARM CENTER INC, MONTICELLO, KY	7	6	86%	33	30	91%	1 Crude Protein 1 Crude Fiber, Max 1 Calcium, Min

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
VAPCO INC, LAWRENCE, MA	1	0	0%	7	3	43%	1 Crude Protein 1 Calcium, Min 1 Phosphorus, Min 1 Salt, Min
VARIETY PET FOODS, ENGLEWOOD, CO	1	1	100%	12	12	100%	None
VENTURE MILLING, ANSONVILLE, NC	1	1	100%	5	5	100%	None
VETERINARY PRESCRIPTION FEEDS, HICKORY, KY	1	0	0%	13	12	92%	1 Calcium, Min
VITA FLEX NUTRITION CO INC, COUNCIL BLUFF, IA	2	2	100%	26	26	100%	None
VITAKRAFT SUN SEED CO INC, BOWLING GREEN, OH	2	0	0%	6	3	50%	1 AH Fat 1 Crude Fiber, Max 1 Weight, Net
WAGGIN TRAIN LLC, ANDERSON, SC	2	2	100%	3	3	100%	None
WALGREEN CO, DEERFIELD, IL	2	2	100%	22	22	100%	None
WALMART STORES INC, BENTONVILLE, AR	10	10	100%	89	89	100%	None
WATSON FEED, PRINCETON, KY	2	2	100%	10	10	100%	None
WELL PET LLC, TEWKSBURY, MA	4	4	100%	41	41	100%	None
WESTWAY FEED PRODUCTS, NEW ORLEANS, LA	1	1	100%	2	2	100%	None
WESTWAY TRADING CORP, CINCINNATI, OH	3	2	67%	22	21	95%	1 Crude Protein
WHOLE FOODS MARKET, AUSTIN, TX	7	7	100%	71	71	100%	None
WILDGAME INNOVATIONS LLC, BROUSSARD, LA	1	0	0%	5	4	80%	1 Calcium, Min
WILDLIFE SCIENCES LLC, CHASKA, MN	1	1	100%	1	1	100%	None
WILLARD MILLING, INC, WILLARD, KY	23	17	74%	134	126	94%	5 AH Fat 1 Calcium, Min 1 Copper 1 Zinc
WILSON FARM SUPPLY INC, NANCY, KY	2	1	50%	6	4	67%	1 Crude Protein 1 Salt, Min
WINCHESTER FEED & SUPPLY INC, WINCHESTER, KY	4	2	50%	22	20	91%	2 Crude Protein
WITTE FEEDS INC, DALE, IN	2	2	100%	15	15	100%	None
WOODFORD FEED CO, VERSAILLES, KY	4	4	100%	31	31	100%	None
WOODYS PERFORMANCE HORSE FEED, DICKINSON, ND	3	3	100%	10	10	100%	None
YODERS FEED & SUPPLY, RUSSELLVILLE, KY	20	10	50%	135	121	90%	4 Crude Protein 2 Calcium, Min 3 Salt, Min 2 Copper 1 Selenium 2 Zinc
YOTTA PET PRODUCTS INC, PARIS, IL	1	1	100%	1	1	100%	None
ZINC NACIONAL SA, NL MEXICO	1	1	100%	1	1	100%	None
ZOO MED LABORATORIES, INC., SAN LUIS OBISPO, CA	4	4	100%	11	11	100%	None
ZUKE'S, DURANGO, CO	2	1	50%	4	3	75%	1 Crude Protein

Analytical Variations

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

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

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

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

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

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