


Regulatory Bulletin 306

2007 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 compiled data presented in this publication is from 2007 sample analyses and tonnage reports. The intent of this information is to acquaint the reader with activities of the feed regulatory program and serve as an advisory tool to the purchaser of commercial feeds distributed in Kentucky.

Introduction

The original commercial feed law in Kentucky was enacted in 1906. Listed under the Kentucky Revised Statutes 250.491 to 250.631, the law is cited as the "Kentucky Commercial Feed Law of 1972." Federal laws such as the Federal Food, Drug, and Cosmetic Act, the Federal Fair Packaging and Labeling Act, and the Federal Virus, Serum and Toxins Act are applicable. Currently, the feed law provides protection for the state's feed manufacturers, livestock and poultry industry, pet owners and other purchasers of animal feed. The feed law regulates any materials 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 materials are exempt. Regulated products include pet foods, livestock minerals, complete animal and poultry feeds, protein blocks, supplements, ingredients and other premixes used for the further manufacture of feed.

Functions of the feed law are to inform and protect the feed purchaser, provide an atmosphere for fair and equitable competition, and assist in assuring the safety of animal and human food. Generally, registration is required before a commercial feed is distributed. This annual review of approximately 10,000 labels evaluates the guaranteed analysis, ingredient statement, and feeding directions for the intended species and classes. Medicated feed labels undergo review for approved drug usage and dosage, statement of drug purpose, and any required warning, caution, or special feeding instructions. All label reviews evaluate statements to determine if they are misleading, unsubstantiated or make prohibited claims. Nearly 1,100 feed companies registered 17,000 commercial feeds for distribution in Kentucky. There are 267 commercial feed manufacturing facilities located in Kentucky.

Verification of good manufacturing practices (GMP's) occurs by inspecting feed mills. A major aspect is to prevent unsafe residues in human food that may result from misused or contaminated feed. In addition, drug and feed additive use must conform to Food & Drug Administration (FDA) regulations. Several provisions serve to prevent injurious or deleterious substances in feeds.

Inspection and Sampling

Regulatory inspectors conducted approximately 1,800 inspections of feed manufacturers and retailers of bagged and bulk feed to monitor the distribution of two million tons of commercial feed. To determine compliance with label guarantees, 3,478 feed samples were collected from over 500 retail and manufacturing facilities. Sixty-two percent of the samples obtained were at a dealer, 37% at a manufacturing site and 1% at other locations. Of the samples taken, 65.5% came from bagged feed, 19.4% bulk feed, 0.8% liquid feed, 0.7% blocks and 13.6% other. Samples represented over 23,700 tons. Of this tonnage, 17.5% was bagged, 79.7% bulk, 0.4% liquid, 1.4% blocks and 1.0% other.

Tables 1 through 3 tabulate the number of samples for specific ingredients and feed

Table 1. Number of feed ingredients sampled.

Type	2007	2006	2005
Alfalfa Products	7	6	5
Animal Products	39	37	37
Barley Products	0	3	5
Corn Products	144	159	179
Cottonseed Products	16	13	32
Distillers Products	79	83	85
Mineral Ingredients	14	47	19
Molasses Products	3	15	10
Oat Products	8	6	13
Rice Products	7	7	5
Soybean Products	266	273	249
Wheat Products	11	16	31
Other	7	7	35
Total	601	672	705

types. The majority of samples (59.2%) represented non-specialty feeds and supplements and specialty feeds (pet foods) comprised 23.5%. Ingredients accounted for 17.3% of the samples.

Feed Mill Inspections

The medicated feed program for the United States currently places feed mills into one of two classifications. One classification is for mills that mix Category II Type A medicated feed articles. To purchase these drug sources a mill must be licensed with FDA. The second classification is for mills that mix drugs commonly referred to as exempt. Purchase of these drugs do not require a FDA license. Most mills mix only exempt drugs. All mills must comply with good manufacturing practice regulations. Non-licensed mills are subject to less stringent regulations. Four inspections of licensed mills were conducted as part of a national program by FDA and other participating state feed control agencies.

These inspections are to ensure approved drug levels and combinations in feed. Additionally, the regulations play a major public health role in helping to maintain the wholesomeness and safety of the food we consume.

BSE Rule Inspections

The Division participated in a national program conducted by FDA to ensure compliance with the BSE Rule. These regulations prevent the establishment and amplification of Bovine Spongiform Encephalopathy (BSE), sometimes referred to as “Mad Cow Disease,” through animal feed. The regulation prohibits the feeding to ruminants certain proteins derived from mammalian tissue. Meat and bone meal containing rendered cattle tissue is a prohibited protein. Mills that receive prohibited materials must utilize adequate procedures to prevent their use in ruminant feeds. Prohibited materials are approved for use in non-ruminant feeds such as swine and poultry. Feeds

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

Species/Type	2007	2006	2005
Poultry	137	154	159
Beef	368	407	389
Dairy	112	133	193
Swine	160	172	166
Sheep	11	18	14
Rabbit	33	42	44
Calf	60	86	86
Horse	274	343	302
Goat	59	82	72
Scratch & Gamebird	80	67	95
Fish Food	15	22	13
Custom Mix	171	249	0
Liquid	4	12	0
Blocks	25	53	75
Minerals	320	336	319
Drugs	19	28	45
Vitamins	7	3	12
Microbials	5	12	9
Other	201	274	238
Total	2,061	2,493	2,231

Table 3. Number of specialty feeds sampled.

Type	2007	2006	2005
Dry Dog Food	185	199	205
Soft-Moist Dog Foods	0	2	1
Canned Dog Foods	144	88	94
Dry Cat Foods	70	63	63
Canned Cat Foods	101	104	73
Specialty Dog & Cat Products	206	167	113
Specialty Pet Products	29	29	38
Aquarium Fish Foods	33	54	25
Specialty Bird Feeds	48	61	80
Total	816	767	692

that may contain prohibited material must bear the cautionary statement “Do not feed to cattle or other ruminants.” The Division conducted 60 BSE Rule inspections under contract with FDA for the 2007-2008 fiscal year. All Kentucky feed mills and renderers have had at least an initial inspection and re-inspection by either our Division or FDA since 1998. Annual inspection of facilities that process feed containing prohibited protein occurs.

Food Safety

Feed contamination concerns feed manufacturers and regulatory officials due to its potential impact on the state’s livestock industry and possible carryover to human food. Prevention is the ultimate goal and a rapid response to contain a problem can prevent it from becoming a major disaster. Feed industry personnel involved in receiving, manufacturing, and distribution are the first line of defense. Unusual occurrences such as feeds or ingredients with abnormal appearance, odor, or foreign material; or, reports of multiple livestock deaths or chemical leaks warrant immediate investigation. Regulatory Services inspectors and laboratory staff are available to assist with the investigation of suspected problems. GMP and BSE Rule inspections, label review, feed microscopy, drug and mycotoxin testing, and other feed control activities contribute significantly to the effort to maintain a safe food supply for consumers of meat, milk, and eggs.

Testing

The feed laboratory provides analysis for over 35 different nutrients and components in feeds to evaluate accurate representation of labeling and presence of injurious substances. Table 4 lists the number of analyses reported.

Table 4. Number of official feed analyses reported.

Analysis	2007	2006	2005
Proximate			
Crude Protein	3,204	3,432	3,487
NPN Equivalent Protein (urea)	106	124	164
Lysine	410	215	364
Crude Fat	579	666	559
Acid Hydrolysis Fat	182	346	408
Crude Fiber	1,119	1,000	941
Acid Detergent Fiber	297	366	399
Sugar, Invert	0	5	0
Ash	185	193	219
Moisture	660	767	959
Minerals			
Calcium	2,480	2,881	2,867
Cobalt	297	312	346
Copper	1,262	1,763	1,754
Iron	291	354	456
Magnesium	905	1,120	1,127
Manganese	738	873	949
Phosphorus	2,560	2,898	2,932
Potassium	1,482	1,710	1,691
Salt	1,332	2,053	2,128
Sodium	61	37	49
Zinc	1,548	1,835	1,832
Vitamins			
Vitamin A	477	576	605
Biotin	0	0	3
Drugs			
Amprolium	0	3	0
Bacitracin	14	10	12
Carbadox	2	2	0
Chlortetracycline	161	163	167
Lasalocid	0	31	0
Lincomycin	1	0	0
Monensin	84	95	56
Oxytetracycline	26	27	30
Tylosin	9	15	16
Zoalene	0	1	0
Mycotoxins			
Aflatoxin	321	386	259
Fumonisin	317	305	235
Vomitoxin	65	34	17
Other			
L. Acidophilus Bacteria	0	3	3
Lactic Acid Bacteria	0	1	1
Yeast Count	5	4	4
Ingredient Listing	119	90	77
Net Weight	580	575	584
Total	21,879	25,271	25,700

Product Suitability

Information from the National Research Council, the Association of American Feed Control Officials (AAFCO), and the University of Kentucky researchers serve as a basis for evaluating nutritional content and suitability for the intended use of the feed.

For complete and balanced dog and cat food products, the label must include a nutritional adequacy statement indicating if AAFCO feeding test procedures or nutrient profile substantiate the claim.

Adulteration occurs in feed if its composition or quality differs from that which is represented by its labeling or if the feed contains injurious or deleterious substances.

Feed Labeling

The feed label is fundamental for providing consumer information and protection, equitable competition and regulatory foundation. By providing labeling assistance and guidance to manufacturers, the realization of labeling that promotes safety and usefulness for livestock production and companion animals occurs. The Registration Specialist reviews product labels for regulatory compliance with both the Kentucky Commercial Feed Law and Federal Laws and Regulations. Area Regulatory Inspectors also aid in the process by assisting local feed manufacturers with product labeling, which results in labeling that is uniform and informative throughout Kentucky.

Spreadsheets are available to assist feed mills in determining the nutrient composition of their manufactured feeds. This information is helpful with establishing label guarantees and evaluating nutritional suitability. These tools and services strengthen an excellent working relationship with the regulated feed industry for the benefit of all Kentuckians.

Financial

The feed regulatory program is supported by inspection fees paid on commercial livestock feeds and pet food sold in Kentucky. A fee of thirty-five cents per ton is paid on commercial feeds packaged in containers greater than 10 pounds. Distillers' wet grains and other distillers' by-products containing more than 75% moisture, brewers wet grains and whey distributed without further processing to the final purchaser for consumption by the purchaser's livestock pay five cents per ton. An annual inspection fee for commercial feed sold exclusively in packages of 10 pounds or less is \$50 per product. In 2007, collected inspection and penalty fees amounted to \$1,116,884. Table 5 summarizes the tonnage report for ingredients. In Table 5, the term "exempt" represents ingredients sold to other manufacturers who pay inspection fees and assume the responsibility for paying the fee. "Non-exempt" represents ingredients for which the reporting party pays the inspection fee.

Table 6 summarizes the reported tonnage for complete feeds and supplements/premixes.

2007 Highlights

Food safety was the predominating concern for 2007. The year began with an extensive nationwide recall of dog and cat foods. This recall encompassed over 100 national brands and more than 1,100 products. Wheat flour, adulterated with melamine, was misbranded wheat gluten. Wheat gluten is a thickening agent commonly used in pet foods. The FDA reported deaths of 14 dogs and cats. The inspection staff performed over 130 recall audit checks at retail outlets not customarily visited.

Another issue addressed the misuse of drugs due to unapproved levels, combinations or uses. Consultation with the firms resulted in improved manufacturing procedures to prevent contamination and ensure proper formulation.

In summary, these situations illustrate the connectivity between feed consumed by animals and the impact it may have on the food we consume. In addition, it demonstrates the cooperative relationships with our federal counterparts and the regulated industry.

Table 5. Reported tons of ingredients distributed.

Ingredient	Exempt			Non-Exempt		
	2007	2006	2005	2007	2006	2005
Alfalfa Products	2,585	3,328	2,446	409	495	566
Animal Products	13,999	17,449	16,237	97,649	85,041	74,490
Barley Products	293	395	345	934	1,082	992
Beet Products	182	659	563	422	1,164	48,967
Brewers Dried Products	113	134	266	11,885	20,612	5,017
Brewers Wet Grains	0	0	0	4,989	2,867	5,518
Citrus Products	4,168	0	0	5,297	587	331
Corn Products	59,134	20,789	8,470	186,452	173,886	143,370
Cottonseed Products	10,087	7,048	11,257	9,096	7,088	14,419
Distillers Dried Grain	45,723	36,747	42,465	128,565	136,079	111,398
Distillers Stillage	0	0	0	430,650	337,672	291,920
Drugs	51	49	52	212	526	531
Fats & Oils	3,824	10,275	3,531	29,776	28,071	26,988
Grain Sorghum	0	0	19	816	1	26
Linseed & Flax	395	353	82	384	443	425
Marine Products	231	51	445	175	60	71
Milk Products	3,036	2,812	2,330	134	31	54
Minerals	50,100	44,499	30,733	69,974	80,336	85,612
Molasses Products	22,660	39,681	21,911	6,448	15,626	9,956
Oat Products	1,807	1,855	1,811	4,802	3,279	3,593
Peanut Products	3,963	4,224	15	1,030	7	0
Rice Products	15,147	16,218	5,595	8,866	20,680	18,777
Rye	0	0	0	72	3,549	0
Soybean Products	219,971	146,874	99,092	552,557	502,148	604,537
Urea & Other NPN	290	216	439	2,014	974	632
Vitamins	104	87	84	1,778	2,389	1,324
Wheat Products	95,920	103,661	92,014	13,428	24,749	19,498
Whey (Liquid)	0	0	0	13,054	19,638	4,569
Grain Sold & Mixed	0	0	0	155,541	106,908	141,538
Other	5,649	9,755	6,049	39,368	27,435	23,173
Total	559,432	467,159	346,251	1,776,777	1,603,423	1,638,292

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

Type	Complete			Supplement/Premix		
	2007	2006	2005	2007	2006	2005
Chicken Starter Grower	7,116	5,090	5,620	400	396	950
Chicken Broiler	4,299	4,760	4,586	171	115	24
Chicken Layer Breeder	20,147	19,708	19,027	315	410	176
Turkey	8,757	1,928	1,179	7	3	119
Beef	167,105	153,868	186,451	41,170	38,571	35,064
Dairy	121,526	134,678	138,436	29,833	29,408	36,744
Swine	6,734	11,179	8,441	6,226	7,735	8,091
Sheep	4,220	4,787	3,854	0	0	399
Calf	14,738	10,632	13,431	0	0	0
Horse	110,098	106,850	99,634	0	0	0
Pet Food	264,306	296,915	222,139	0	0	0
Fish	1,769	3,620	2,203	0	0	0
Rabbit	3,547	3,755	4,184	0	0	0
Scratch	4,278	2,785	4,587	0	0	0
Custom Mix	313,623	349,593	360,435	0	0	0
Other	52,228	72,289	133,914	0	0	0
Dried Molasses	0	0	0	47	126	842
Drug Premixes	0	0	0	2,375	1,521	1,351
Liquid	0	0	0	1,852	3,951	20,176
Microbial Products	0	0	0	49	89	19
Minerals	0	0	0	22,504	26,842	31,573
Vitamin Premix	0	0	0	2,377	1,259	1,111
Total	1,104,491	1,182,437	1,208,121	107,326	110,426	136,639

Report of Official Feed Samples Analyzed—2007

Name	Samples			Analyses			Violations
	Total	Passed	%	Total	Passed	%	
4 SEASONS MARKETING LLC, FLEMINGSBURG, KY	64	36	56%	577	527	91%	4 Crude Protein 1 Phosphorus, Min 2 Salt, Min 1 Cobalt 7 Copper 2 Iron 9 Magnesium 1 Manganese 4 Potassium 7 Zinc 11 Vitamin A 1 Chlortetracycline
ACADIAN SEAPLANTS LTD, CANADA B3B 1X8	1	1	100%	3	3	100%	None
ACCO FEEDS INC, MINNEAPOLIS, MN	1	1	100%	5	5	100%	None
ADAIRVILLE FEED MILL #2/RVILLE, ADAIRVILLE, KY	4	4	100%	14	14	100%	None
ADAIRVILLE FEED MILL, ADAIRVILLE, KY	4	4	100%	19	19	100%	None
ADAMS FEED & SUPPLY, BRODHEAD, KY	5	3	60%	19	15	79%	2 Crude Protein 1 Calcium, Min 1 Zinc
ADM ALLIANCE NUTRITION INC, QUINCY, IL	145	127	88%	906	885	98%	5 Crude Protein 1 Copper 2 Potassium 2 Zinc 11 Vitamin A
ADM ANIMAL HEALTH/NUTRITION, DES MOINES, IA	4	4	100%	16	16	100%	None
ADM ANIMAL HEALTH/NUTRITION, EFFINGHAM, IL	1	1	100%	2	2	100%	None
ADM CORN PROCESSING/J ARCHER, DECATUR, IL	10	10	100%	26	26	100%	None
ADM MILLING/ST LOUIS, SHAWNEE MISSION, KS	1	1	100%	1	1	100%	None
ADM PROCESSING/SHAMARIE ALLEN, DECATUR, IL	2	2	100%	4	4	100%	None
AGRIDYNE LLC, SPRINGFIELD, IL	1	1	100%	4	4	100%	None
AHC PRODUCTS & PACKAGING INC, WINCHESTER, KY	1	0	0%	7	4	57%	1 Manganese 1 Zinc 1 Vitamin A
ALBION LABORATORIES, INC., CLEARFIELD, UT	1	1	100%	5	5	100%	None
ALDI INC/GARY WINDMILLER, GREENWOOD, IN	7	6	86%	77	76	99%	1 Ash
ALLEN CO FARMERS SERVICE INC, SCOTTSVILLE, KY	12	10	83%	44	42	95%	1 Crude Protein 1 Potassium
ALLEN ROBERTSON CO INC, LOUISVILLE, KY	10	8	80%	72	69	96%	1 Salt, Min 1 Potassium 1 Vitamin A
ALLTECH, INC., NICHOLASVILLE, KY	6	3	50%	17	14	82%	2 Crude Protein 1 Copper
ALPHARMA/REG AFFAIRS/M WATERS, BRIDGEWATER, NJ	1	1	100%	1	1	100%	None
AMERICAN COLLOID COMPANY, ARLINGTON HEIGHTS, IL	1	1	100%	15	15	100%	None
AMERICAN HEALTH KENNELS INC, POMPANO BEACH, FL	4	4	100%	17	17	100%	None
ANDERSON CYLMERS ETHANOL LLC, LOGANSPOUT, IN	1	1	100%	4	4	100%	None
ANTLER KING TROPHY PRODUCTS, BLACK RIVER FALLS, WI	1	0	0%	10	8	80%	1 Iron 1 Manganese
ARCHER DANIEL MIDLAND CO, DECATUR, IL	11	11	100%	22	22	100%	None
ARNOLD FEED & SEED, CAMPBELLSVILLE, KY	1	1	100%	1	1	100%	None
ASHLAND MILLING COMPANY INC, ASHLAND, KY	6	5	83%	25	24	96%	1 Lysine
AUTHORITY PET FOOD CO, PHOENIX, AZ	7	7	100%	37	37	100%	None
AZTECA MILLING LP, HENDERSON, KY	5	5	100%	21	21	100%	None
BAGDAD ROLLER MILLS, BAGDAD, KY	17	15	88%	86	84	98%	2 Monensin Sodium
BAKERY FEEDS INC, COLD SPRINGS, KY	4	4	100%	8	8	100%	None
BARDSTOWN MILLS, BARDSTOWN, KY	29	20	69%	144	135	94%	8 Crude Protein 1 Vitamin A

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	Total	Passed	100%	Total	Passed	100%	
BARGO FEED & FARM SUPPLY, WILLIAMSBURG, KY	2	2	100%	9	9	100%	None
BI-COUNTY FARM BUREAU COOP, FLORENCE, KY	6	1	17%	34	28	82%	3 Crude Protein 1 Copper 2 Zinc
BIG BARN FARM STORE, GARRISON, KY	4	2	50%	24	21	88%	1 Crude Protein 1 Calcium, Min 1 Zinc
BIG LOTS, COLUMBUS, OH	1	1	100%	11	11	100%	None
BIL JAC FOODS INC, MEDINA, OH	1	1	100%	5	5	100%	None
BILL BARR & CO, OVERLAND PARK, KS	1	1	100%	2	2	100%	None
BIO BISCUIT INC, CANADA J25 1H5	1	1	100%	4	4	100%	None
BIOZYME INCORPORATED, ST JOSEPH, MO	4	3	75%	35	34	97%	1 Vitamin A
BLACK GOLD PET FOODS INC, VIENNA, MO	8	8	100%	80	80	100%	None
BLUE BUFFALO CO LTD, WILTON, CT	11	10	91%	131	130	99%	1 Crude Fat, Min
BLUE DOG BAKERY, SEATTLE, WA	1	1	100%	5	5	100%	None
BLUE RIBBON PET PRODUCTS, COMMACK, NY	2	2	100%	7	7	100%	None
BLUE SEAL FEEDS INC, LONDONDERRY, NH	3	3	100%	33	33	100%	None
BLUEBONNET FEEDS, ARDMORE, OK	1	1	100%	1	1	100%	None
BLUEGRASS AG DISTRIBUTORS, LANCASTER, KY	4	4	100%	21	21	100%	None
BLUEGRASS FEED, HUSTONVILLE, KY	2	2	100%	20	20	100%	None
BLUEGRASS SEED, BARDSTOWN, KY	27	25	93%	160	156	98%	2 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max
BOWLIN FEED INC, ALBANY, KY	2	1	50%	11	10	91%	1 Crude Fat, Min
BOWLING FEED & HDWE, CATLETTSBURG, KY	1	1	100%	5	5	100%	None
BOYDTON FARM SUPPLY LLC, BOYDTON, VA	2	2	100%	18	18	100%	None
BROOKSVILLE FARM SUPPLY, BROOKSVILLE, KY	5	5	100%	24	24	100%	None
BUCHHEIT INC, PERRYVILLE, MO	1	0	0%	2	1	50%	1 Crude Protein
BUCKEYE FEED MILLS INC MARS, DALTON, OH	8	7	88%	70	69	99%	1 Vitamin A
BUFFALO TRACE DISTILLERY INC, FRANKFORT, KY	3	3	100%	12	12	100%	None
BUNGE NORTH AMERICA (EAST) LLC, MARION, OH	4	4	100%	6	6	100%	None
BUNGE NORTH AMERICA (EAST) LLC, MORRISTOWN, IN	20	20	100%	27	27	100%	None
BUNGE NORTH AMERICA INC, CAIRO, IL	51	42	82%	54	45	83%	9 Crude Protein
BURKMANN FEEDS OF EDMONTON, EDMONTON, KY	3	3	100%	16	16	100%	None
BURKMANN FEEDS, BOWLING GREEN, KY	19	17	89%	97	94	97%	2 Crude Protein 1 Lysine
BURKMANN FEEDS, DANVILLE, KY	92	74	80%	679	653	96%	7 Crude Protein 1 Crude Fiber, Max 2 Acid Detergent Fiber 1 Calcium, Min 1 Salt, Min 1 Cobalt 3 Copper 1 Iron 2 Magnesium 1 Manganese 1 Potassium 4 Vitamin A 1 Chlortetracycline
BURKMANN FEEDS, EUBANK, KY	10	9	90%	36	35	97%	1 Crude Protein
BURKMANN FEEDS, GLASGOW, KY	40	37	93%	191	187	98%	1 Crude Protein 2 Crude Fiber, Max 1 Acid Detergent Fiber
BURKMANN FEEDS, LONDON, KY	5	5	100%	21	21	100%	None
BUSCH AGRICULTURAL RESOURCES, JONESBORO, AR	2	1	50%	5	4	80%	1 Crude Protein
C & D FEED, MAGNOLIA, KY	2	2	100%	12	12	100%	None

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	Total	Passed	0%	Total	Passed	0%	
C & S PRODUCTS CO INC, FORT DODGE, IA	2	0	0%	6	4	67%	2 Crude Protein
CALHOUN FEED SERVICE INC, MADISONVILLE, KY	9	9	100%	56	56	100%	None
CANIDAE CORPORATION, NORCO, CA	7	3	43%	85	79	93%	2 Crude Protein 1 AH Fat 1 Copper 1 Zinc 1 Ash
CANZ PET FOODS LLC, SANTA MONICA, CA	1	0	0%	4	2	50%	1 Crude Protein 1 Crude Fat, Min
CARDINAL LABORATORIES INC, AZUSA, CA	3	1	33%	23	18	78%	1 Crude Protein 1 Crude Fat, Min 1 Phosphorus, Min 1 Copper 1 Zinc
CAREY FEED, GRAVEL SWITCH, KY	5	3	60%	25	23	92%	2 Crude Protein
CARGILL ANIMAL NUTRITION, MINNEAPOLIS, MN	62	50	81%	493	480	97%	3 Crude Protein 2 Lysine 1 AH Fat 3 Calcium, Min 1 Cobalt 2 Magnesium 1 Potassium
CARGILL DRY CORN INGREDIENTS, INDIANAPOLIS, IN	1	1	100%	2	2	100%	None
CARGILL DRY CORN INGREDIENTS, PARIS, IL	3	3	100%	11	11	100%	None
CARGILL INC, MINNEAPOLIS, MN	8	8	100%	36	36	100%	None
CASTOR-POLLUX PET WORKS, CLACKAMAS, OR	6	6	100%	51	51	100%	None
CAUDILL SEED CO, LOUISVILLE, KY	2	2	100%	2	2	100%	None
CECILIA FARM SERVICE, CECILIA, KY	13	11	85%	74	72	97%	2 Crude Fiber, Max
CENTRAL FARM SUPPLY, LOUISVILLE, KY	14	14	100%	65	65	100%	None
CENTRAL FARMERS SUPPLY, GREENSBURG, KY	24	23	96%	140	139	99%	1 Potassium
CENTRAL GARDEN & PET, FRANKLIN, WI	4	3	75%	17	16	94%	1 Potassium
CHINA VITAMINS LLC, BEDMINSTER, NJ	2	2	100%	4	4	100%	None
CHURCH & DWIGHT CO INC, PRINCETON, NJ	2	2	100%	6	6	100%	None
CIRCLE M FARMS, JACKSON, OH	3	2	67%	17	16	94%	1 Crude Protein
CLEMENTS AGRI-SUPPLY INC, SPRINGFIELD, KY	4	3	75%	14	13	93%	1 Crude Protein
CLOUD STAR, SAN LUIS OBISPO, CA	2	1	50%	6	5	83%	1 Crude Protein
COMMODITY SPECIALISTS CO, MINNEAPOLIS, MN	3	3	100%	7	7	100%	None
COMMONWEALTH AGRI-ENERGY LLC, HOPKINSVILLE, KY	19	19	100%	64	64	100%	None
CONAGRA TRADE GROUP INC, OMAHA, NE	1	1	100%	2	2	100%	None
CONSOLIDATED BLENDEERS INC, HASTINGS, NE	1	1	100%	1	1	100%	None
CONSOLIDATED GRAIN & BARGE, MT VERNON, IN	16	16	100%	20	20	100%	None
CORE CALCIUM & SHELL PRODUCTS, MOBILE, AL	1	1	100%	1	1	100%	None
CORTA-FLX INC, AIKEN, SC	1	1	100%	3	3	100%	None
COSMIC PET PRODUCTS, HAGERSTOWN, MD	1	1	100%	4	4	100%	None
COUNTRY ACRES FEED CO INC, BRENTWOOD, MO	32	27	84%	212	203	96%	3 Crude Protein 2 Copper 1 Iron 1 Manganese 2 Zinc
CPC COMMODITIES LLC, FOUNTAIN RUN, KY	76	62	82%	337	319	95%	5 Crude Protein 1 Crude Fat, Min 3 Crude Fiber, Max 1 Potassium 2 Zinc 1 Vitamin A 1 Chlortetracycline 4 Oxytetracycline
CUB RUN MILLING CO, CANMER, KY	2	2	100%	13	13	100%	None

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Name	Samples			Analyses			Violations
	Total	Passed	%	Total	Passed	%	
CUSTOM FEED MILL LLC, MORGANFIELD, KY	28	18	64%	183	170	93%	5 Crude Protein 1 Calcium, Min 1 Magnesium 3 Zinc 3 Vitamin A
D & D COMMODITIES, STEPHEN, MN	2	2	100%	6	6	100%	None
D & D INGREDIENT DIST INC, DELPHOS, OH	5	4	80%	9	7	78%	1 Crude Fiber, Max 1 Calcium, Min
DABNEY FEED & SUPPLY, SOMERSET, KY	6	2	33%	31	22	71%	4 Crude Protein 1 Calcium, Min 2 Copper 2 Zinc
DAD'S DOG FOODS, MEADVILLE, PA	4	4	100%	29	29	100%	None
DARLING INTERANTIONAL INC, IRVING, TX	3	3	100%	15	15	100%	None
DARLING INTERNATIONAL INC, IRVING, TX	2	2	100%	10	10	100%	None
DAVENPORT FARM SUPPLY, FLEMINGSBURG, KY	13	12	92%	59	58	98%	1 Zinc
DAY & DAY FEED MILL, COLUMBIA, KY	2	1	50%	10	9	90%	1 Crude Protein
DEL MONTE PET PRODUCTS, PITTSBURGH, PA	10	10	100%	72	72	100%	None
DELCA CORP, LAGUNA NIGUEL, CA	2	1	50%	6	4	67%	1 Crude Protein 1 Moisture
DELTA OIL MILL INC, JONESTOWN, MS	1	1	100%	2	2	100%	None
DESIGNING HEALTH INC, VALENCIA, CA	1	1	100%	2	2	100%	None
DIAMOND PET FOODS CO, META, MO	14	12	86%	155	153	99%	2 Calcium, Min
DOANE PET CARE, BRENTWOOD, TN	5	5	100%	24	24	100%	None
DOGMATIC PRODUCTS INC, BROOKLYN, NY	3	3	100%	6	6	100%	None
DOGSWELL LLC, LOS ANGELES, CA	2	1	50%	4	3	75%	1 Crude Protein
DOLGEN CORP, GOODLETTSVILLE, TN	6	6	100%	62	62	100%	None
DOUBLE J MILL INC, BOONEVILLE, KY	3	3	100%	14	14	100%	None
DOUBLE S LIQUID FEED SVC, DANVILLE, IL	1	1	100%	3	3	100%	None
DOWELL HARDWARE INC, EKRON, KY	1	1	100%	11	11	100%	None
EIGHT IN ONE PET PRODUCTS, ISLANDIA, NY	8	8	100%	28	28	100%	None
ENDRES PROCESSING MICHIGAN LLC, UPPER SANDUSKY, OH	2	2	100%	4	4	100%	None
ENDRES PROCESSING OHIO LLC, UPPER SANDUSKY, OH	1	1	100%	2	2	100%	None
ENRECO INC/OMEGA FIELDS, NEWTON, WI	1	0	0%	11	10	91%	1 Crude Fat, Min
EQUINE AMERICA INC, AIKEN, SC	2	1	50%	9	8	89%	1 Crude Protein
EQUIVISION INC, VERSAILLES, KY	1	1	100%	4	4	100%	None
EVANGERS DOG & CAT FOOD CO INC, WHEELING, IL	5	2	40%	45	40	89%	2 Crude Protein 2 AH Fat 1 Zinc
EVOLVED HABITATS INC, NEW ROADS, LA	3	2	67%	19	18	95%	1 Iron
EXCLUSIVELY PET INC, MILWAUKEE, WI	4	3	75%	11	10	91%	1 Crude Protein
F M BROWNS SONS INC, SINKING SPRING, PA	3	3	100%	12	12	100%	None
FAITHWAY FEED CO INC, GUNTERSVILLE, AL	4	3	75%	40	39	98%	1 Crude Fat, Min
FARM HOUSE, MILTON, WV	2	2	100%	9	9	100%	None
FARMER'S CHOICE FEED MILL, KIRKSEY, KY	1	1	100%	5	5	100%	None
FARMERS FEED & GRAIN, CALVIN, KY	1	1	100%	4	4	100%	None
FARMERS FEED MILL, LEXINGTON, KY	16	16	100%	92	92	100%	None
FARMERS MARKET, BARBOURVILLE, KY	3	1	33%	13	10	77%	1 Crude Protein 2 Zinc
FARNAM CO INC, OMAHA, NE	1	1	100%	4	4	100%	None
FARNAM CO INC, PHOENIX, AZ	1	0	0%	3	2	67%	1 Crude Protein
FARNAM CO/HORSE PRODUCTS DIV, PHOENIX, AZ	5	1	20%	52	47	90%	2 Magnesium 1 Zinc 2 Vitamin A
FARNAM PET PRODUCTS, PHOENIX, AZ	2	2	100%	6	6	100%	None

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Name	Samples			Analyses			Violations
	Total	Passed		Total	Passed		
FEED SOLUTIONS, ST LOUIS, MO	3	3	100%	21	21	100%	None
FEEDERS SUPPLY COMPANY, LOUISVILLE, KY	3	3	100%	5	5	100%	None
FINISH LINE HORSE PRODUCTS, BENSENVILLE, IL	3	2	67%	14	13	93%	1 Iron
FIRST COMPANION VETERINARY, WESTLAKE, TX	2	1	50%	8	7	88%	1 Crude Protein
FIRST NATURE, ROGERS, AR	1	1	100%	2	2	100%	None
FISHBELT FEEDS INC, MOORHEAD, MS	1	1	100%	3	3	100%	None
FLUKER FARMS INC, PORT ALLEN, LA	1	0	0%	5	3	60%	1 Crude Fat, Min 1 Copper
FOOD LION STORES, SALISBURY, NC	10	10	100%	97	97	100%	None
FRANK HINTON & SON, PLUMMERS LANDING, KY	16	13	81%	82	79	96%	2 Acid Detergent Fiber 1 Vitamin A
FRANKLIN INDUSTRIAL MINERALS, BRENTWOOD, TN	3	3	100%	3	3	100%	None
FREDS INC - TERRI JOHNSON, MEMPHIS, TN	26	26	100%	294	294	100%	None
FREEDOM HEALTH LLC, AURORA, OH	1	1	100%	3	3	100%	None
FROMM FAMILY FOODS LLC, MEQUON, WI	2	2	100%	22	22	100%	None
FURST-MCNESS CO, FREEPORT, IL	2	2	100%	14	14	100%	None
G M TAYLOR SEED CO, GEORGETOWN, KY	4	4	100%	10	10	100%	None
GATEWAY PRODUCTS INC, HOLLY, CO	1	1	100%	14	14	100%	None
GHC MILLING, FORDSVILLE, KY	18	16	89%	50	48	96%	2 Crude Protein
GILLAMS FARM SUPPLY, OLIVE HILL, KY	1	1	100%	1	1	100%	None
GLOBAL HARVEST BIRDSEED, SEATTLE, WA	1	0	0%	4	3	75%	1 Crude Fat, Min
GOLD CITY FEED MILL, FRANKLIN, KY	8	6	75%	71	69	97%	2 Copper
GOLDENROD FEEDS, LIBERTY, KY	8	7	88%	36	35	97%	1 Lysine
GPC PET PRODUCTS, MUSCATINE, IA	1	0	0%	5	4	80%	1 Crude Fat, Min
GRAHAM FEED CO, TERRE HAUTE, IN	8	5	63%	13	10	77%	3 Crude Protein
GRAIN PROCESSING CORPORATION, MUSCATINE, IA	2	2	100%	7	7	100%	None
GRAIN PROCESSING CORPORATION, WASHINGTON, IN	8	8	100%	23	23	100%	None
GRAND MEADOWS INC, ORANGE, CA	1	0	0%	7	6	86%	1 Crude Fat, Min
GREEN RIVER FEED MILL, MORGANTOWN, KY	7	5	71%	44	42	95%	2 Crude Protein
GREENLEAF COMMODITIES, DANVILLE, KY	3	3	100%	14	14	100%	None
GRIFFIN INDUSTRIES INC, COLD SPRINGS, KY	14	12	86%	48	46	96%	2 Calcium, Min
GRO-TEC INC, MODOC, IN	2	2	100%	13	13	100%	None
GUTWEIN & CO INC, REYNOLDS, IN	2	2	100%	6	6	100%	None
HALO-PURELY FOR PETS, PALM HARBOR, FL	2	2	100%	22	22	100%	None
HARDIN COUNTY MILLING COMPANY, ELIZABETHTOWN, KY	9	9	100%	58	58	100%	None
HARDINSBURG FARM SUPPLY, HARNED, KY	9	6	67%	56	53	95%	1 Crude Protein 1 Copper 1 Potassium
HARPER PET PRODUCTS INC, BEDFORD PARK, IL	1	0	0%	15	14	93%	1 Crude Fat, Min
HARTZ MOUNTAIN CORPORATION, SECAUCUS, NJ	12	11	92%	30	29	97%	1 Crude Protein
HARVEST FUEL INC, WALHALLA, ND	1	1	100%	15	15	100%	None
HAYWOOD HORSE SUPPLY, GLASGOW, KY	3	3	100%	14	14	100%	None
HBD INTERNATIONAL INC, BRENTWOOD, TN	1	1	100%	2	2	100%	None
HBH ENTERPRISES, SPRINGVILLE, UT	3	3	100%	15	15	100%	None
HEALTH-PRO NUTRITION, PICO RIVERA, CA	4	3	75%	32	29	91%	1 Crude Protein 1 Manganese 1 Zinc
HEALTHY ESSENTIALS LLC, TUALATIN, OR	1	1	100%	3	3	100%	None
HEALTHY PET FOODS/INTEGRATED P, WEST CHESTER, PA	6	5	83%	45	44	98%	1 Crude Protein
HEARTBREAK RIDGE FARM SUPPLY, CLAY CITY, KY	2	1	50%	8	7	88%	1 Copper
HEDGEPEATH SUPPLY, CANMER, KY	11	7	64%	77	72	94%	1 Salt, Min 1 Copper 3 Vitamin A

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HERITAGE FEED & GRAIN INC, BOWLING GREEN, KY	6	2	33%	36	32	89%	4 Crude Protein
HIGGINS GROUP CORPORATION, MIAMI, FL	3	1	33%	6	4	67%	2 Crude Protein
HIKARI SALES USA INC, HAYWARD, CA	2	2	100%	5	5	100%	None
HILLS PET NUTRITION INC, TOPEKA, KS	9	9	100%	84	84	100%	None
HISEVILLE FEED & SEED COMPANY, HISEVILLE, KY	3	3	100%	20	20	100%	None
HI-TEK RATIONS, DUBLIN, GA	2	2	100%	15	15	100%	None
HOOVERS FEED MILL, SCOTTSVILLE, KY	6	5	83%	25	24	96%	1 Potassium
HORSE HEALTH PRODUCTS, PHOENIX, AZ	4	2	50%	35	33	94%	2 Vitamin A
HOWE FARM SUPPLY, VANCEBURG, KY	1	1	100%	4	4	100%	None
HUBBARD FEEDS INC, MANKATO, MN	41	36	88%	263	257	98%	1 Crude Protein 1 Cobalt 1 Copper 1 Manganese 2 Vitamin A
HUBBARD FEEDS INC/PET FOOD DIV, MANKATO, MN	2	2	100%	13	13	100%	None
HUNGRY DOG, HEREFORD, TX	2	2	100%	22	22	100%	None
HUNTERS SPECIALTIES INC, CEDAR RAPIDS, IA	2	1	50%	16	14	88%	1 Cobalt 1 Manganese
HYLAND CO INC, ASHLAND, KY	20	18	90%	186	184	99%	2 Calcium, Min
IAMS FOOD COMPANY, LEWISBURG, OH	10	10	100%	96	96	100%	None
ICE'S PRODUCE, BARDSTOWN, KY	8	8	100%	21	21	100%	None
IMS PET INDUSTRIES, WOOD RIDGE, NJ	1	1	100%	3	3	100%	None
INCOBRASA INDUSTRIES LTD, GILMAN, IL	18	18	100%	39	39	100%	None
INGREDIENT RESOURCE CORP, LOUISVILLE, KY	1	1	100%	1	1	100%	None
INTEGRITY FEEDS LLC, OWENSBORO, KY	40	34	85%	250	243	97%	6 Crude Protein 1 Zinc
INTER AMERICAN, CINCINNATI, OH	15	15	100%	180	180	100%	None
J & H FEED & TACK INC, STAFFORDSVILLE, KY	5	1	20%	11	7	64%	4 Crude Protein
JABETOWN MILL, EWING, KY	6	6	100%	41	41	100%	None
JBS UNITED INC, SHERIDAN, IN	4	4	100%	23	23	100%	None
JEFFRIES FEED SEED & SUPPLY, CAMPBELLSVILLE, KY	2	2	100%	5	5	100%	None
JIM BEAM BRANDS, CLERMONT, KY	2	2	100%	15	15	100%	None
JPI - DIV OF JAKKS PACIFIC INC, MALIBU, CA	4	4	100%	22	22	100%	None
JT ENTERPRISES, MYRA, KY	4	1	25%	18	15	83%	3 Crude Protein
KALMBACH FEEDS INC, UPPER SANDUSKY, OH	45	35	78%	269	258	96%	3 Crude Protein 2 Lysine 1 Crude Fat, Min 2 Copper 2 Zinc 1 Vitamin A
KAYTEE PRODUCTS INC, CHILTON, WI	8	7	88%	23	22	96%	1 Crude Fat, Min
KENT FEEDS INC/RICH CRADDICK, MUSCATINE, IA	52	39	75%	351	333	95%	7 Crude Protein 1 Salt, Min 1 Copper 2 Iron 1 Manganese 1 Zinc 5 Vitamin A
KENTUCKY EQUINE RESEARCH INC, VERSAILLES, KY	1	0	0%	3	2	67%	1 Sodium
KENTUCKY NUTRITION SERVICE, LAWRENCEBURG, KY	22	20	91%	208	206	99%	1 Manganese 1 Vitamin A
KENTUCKY PERFORMANCE PRODUCTS, VERSAILLES, KY	2	1	50%	10	9	90%	1 Potassium
KEYNES BROTHERS, LOGAN, OH	1	1	100%	1	1	100%	None
KINGSTON FARMERS EXCHANGE INC, KINGSTON, OH	3	3	100%	38	38	100%	None
KLN ENTERPRISES INC, PERHAM, MN	1	0	0%	4	2	50%	1 Crude Protein 1 Crude Fat, Min
K-MART CORPORATION, HOFFMAN ESTATES, IL	8	8	100%	80	80	100%	None

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KONG COMPANY, GOLDEN, CO	4	4	100%	26	26	100%	None
KRAFT FOODS, EAST HANOVER, NJ	5	5	100%	19	19	100%	None
KRISLIN INC, LANSING, MI	3	3	100%	9	9	100%	None
KROGER, CINCINNATI, OH	2	2	100%	4	4	100%	None
K-STAR COMMODITIES, HOPKINSVILLE, KY	1	1	100%	7	7	100%	None
LA CROSSE MILLING COMPANY, COCHRANE, WI	1	1	100%	7	7	100%	None
LAFEFER COMPANY, CORNELL, IL	3	3	100%	7	7	100%	None
LAKE CUMBERLAND FEED & FARM, RUSSELL SPRINGS, KY	2	2	100%	6	6	100%	None
LAKE CUMBERLAND MILLING LLC, MONTICELLO, KY	10	9	90%	34	33	97%	1 Crude Protein
LAMA WELLNESS SERVICE INC, HENDERSON, KY	2	1	50%	16	15	94%	1 Iron
LAND O'LAKES PURINA FEED LLC, SHOREVIEW, MN	11	7	64%	74	69	93%	2 Crude Protein 2 Vitamin A 1 Monensin Sodium
LEMSTERS MILL LLC, SMITHS GROVE, KY	5	5	100%	30	30	100%	None
LEO GABBARD, WEST HARRISON, IN	1	0	0%	8	6	75%	1 Calcium, Min 1 Phosphorus, Min
LESTER STUTZMAN FEED MILL, MARION, KY	16	15	94%	72	70	97%	1 Crude Protein 1 Calcium, Min
LEWIS SEED CO INC, LOUISVILLE, KY	1	1	100%	1	1	100%	None
LIFE DATA LABS INC, CHEROKEE, AL	1	1	100%	6	6	100%	None
LIVESTOCK MANAGEMENT SVC, BOWLING GREEN, KY	15	8	53%	139	127	91%	2 Calcium, Min 3 Cobalt 1 Copper 4 Magnesium 2 Manganese
LOUISIANA RICE MILL LLC, MERMENAU, LA	1	1	100%	1	1	100%	None
LUTTRULL FEED SERVICE, PEMBROKE, KY	4	4	100%	15	15	100%	None
M & M FEEDS, AUSTIN, KY	4	3	75%	31	30	97%	1 Zinc
M & W MILLING COMPANY INC, COLUMBIA, KY	14	11	79%	60	57	95%	3 Crude Protein
MANNA PRO PRODUCTS, LLC, ST LOUIS, MO	17	14	82%	126	121	96%	1 Crude Protein 1 Crude Fat, Min 1 AH Fat 1 Crude Fiber, Max 1 Vitamin A
MANZANOLA FEEDS, MANZANOLA, CO	1	1	100%	2	2	100%	None
MARION FEED MILL INC, MARION, KY	17	17	100%	52	52	100%	None
MARS FISHCARE NORTH AMERICA, CHALFONT, PA	2	2	100%	5	5	100%	None
MARS PETCARE US INC, FRANKLIN, TN	1	1	100%	10	10	100%	None
MARSHALL PET PRODUCTS, WOLCOTT, NY	1	1	100%	9	9	100%	None
MARTINS FEED & SUPPLY, LIBERTY, KY	7	7	100%	19	19	100%	None
MAR-VO MINERAL CO INC, OSSEO, MI	1	1	100%	2	2	100%	None
MASTERFOODS USA/KAL KAN, VERNON, CA	9	9	100%	96	96	100%	None
MAYS LICK MILL, MAYS LICK, KY	10	10	100%	69	69	100%	None
MAZELIN FEED MILL, SCOTTSVILLE, KY	1	1	100%	1	1	100%	None
MCCAULEY BROS INC, VERSAILLES, KY	9	9	100%	67	67	100%	None
MCCUISTON MILLS INC, HERNDON, KY	2	2	100%	9	9	100%	None
MCGAHAN & COMPANY, PAINTSVILLE, KY	10	10	100%	52	52	100%	None
MCRAY FEED LLC, HARRODSBURG, KY	19	18	95%	77	76	99%	1 Potassium
MEIJER INC, GRAND RAPIDS, MI	13	12	92%	111	110	99%	1 Crude Protein
MENNEL MILLING COMPANY, FOSTORIA, OH	2	2	100%	4	4	100%	None
MENU FOODS, PENNSAUKEN, NJ	2	2	100%	24	24	100%	None
MERRICK PETFOODS INC, AMARILLO, TX	10	9	90%	99	98	99%	1 Crude Fat, Min
MFS ALLIANCE INC, EDMONTON, KY	19	18	95%	97	96	99%	1 Crude Protein
MID-SOUTH MILLING CO, MEMPHIS, TN	5	5	100%	11	11	100%	None
MID-STATES DISTRIBUTING CO, ST. PAUL, MN	6	6	100%	16	16	100%	None

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MIDWEST AGRI COMMODITIES CO, SAN RAFAEL, CA	1	1	100%	2	2	100%	None
MIDWESTERN PET FOODS INC, EVANSVILLE, IN	14	13	93%	117	116	99%	1 AH Fat
MILES FARM ENTERPRISES, OWENSBORO, KY	4	3	75%	37	36	97%	1 Potassium
MIRACLE CORP PRODUCTS, DAYTON, OH	1	1	100%	2	2	100%	None
MONROE BROS FEED MILL, CAVE CITY, KY	18	16	89%	84	82	98%	2 Copper
MOSAIC CROP NUTRITION LLC, RIVERVIEW, FL	7	7	100%	14	14	100%	None
MOUNTAIN COUNTRY FOODS, OKEENE, OK	1	1	100%	2	2	100%	None
MULLICAN FEED MILL, STANLEY, KY	5	5	100%	15	15	100%	None
NATIONAL STARCH & CHEM CO, INDIANAPOLIS, IN	3	3	100%	14	14	100%	None
NATURA PET PRODUCTS, SAN JOSE, CA	19	17	89%	210	208	99%	2 AH Fat
NATURAL BALANCE PET FOODS INC, PACOIMA, CA	14	10	71%	151	145	96%	2 Crude Protein 1 Calcium, Min 1 Copper 2 Zinc
NATURAL LIFE PET PRODUCTS, PITTSBURG, KS	5	4	80%	59	58	98%	1 Zinc
NATURAL PET NUTRITION COMPANY, BOULDER, CO	7	6	86%	77	76	99%	1 Zinc
NATURES ANIMALS INC, MAMARONECK, NY	1	1	100%	2	2	100%	None
NATURES RECIPE PET FOODS, PITTSBURGH, PA	11	11	100%	116	116	100%	None
NATURES VARIETY, LINCOLN, NE	10	8	80%	137	135	99%	1 AH Fat 1 Calcium, Min
NEOGEN CORP, LEXINGTON, KY	1	1	100%	5	5	100%	None
NESTLE PURINA PETCARE CO, ST LOUIS, MO	10	9	90%	96	95	99%	1 Iron
NEW ENERGY CORP, SOUTH BEND, IN	13	13	100%	49	49	100%	None
NEWMANS OWN ORGANICS, APTOS, CA	7	7	100%	73	73	100%	None
NORTH AMERICAN NUTRITION CO, LEWISBURG, OH	14	12	86%	81	79	98%	2 Lysine
NORTHDOWN INDUSTRIES, CANADA M9C 5E9	1	1	100%	3	3	100%	None
NUNN MILLING COMPANY INC, EVANSVILLE, IN	5	4	80%	46	45	98%	1 Crude Fat, Min
NUTRA BLEND CORP, NEOSHO, MO	2	2	100%	10	10	100%	None
NUTRO PRODUCTS INC, CITY OF INDUSTRY, CA	13	13	100%	108	108	100%	None
NYLABONE PRODUCTS, NEPTUNE, NJ	5	3	60%	21	18	86%	2 Crude Protein 1 AH Fat
OCEAN NUTRITION, SALT LAKE CITY, UT	1	1	100%	2	2	100%	None
ODOM'S LIVESTOCK SUPPLY, MAYFIELD, KY	11	7	64%	82	75	91%	1 Crude Protein 1 Cobalt 1 Iron 1 Magnesium 1 Manganese 1 Potassium 1 Zinc
OLD WEST PET TREATS, OMAHA, NE	1	1	100%	3	3	100%	None
OMEGA SEA LTD, SITKA, AK	1	1	100%	2	2	100%	None
ORALX CORPORATION, OGDEN, UT	1	1	100%	1	1	100%	None
ORCHARD SWEETS INC, WOLCOTT, NY	1	1	100%	3	3	100%	None
ORSCHELN FARM & HOME, MOBERLY, MO	7	7	100%	38	38	100%	None
OTIS BRYANT & SON INC, CANEYVILLE, KY	51	44	86%	241	230	95%	3 Crude Protein 1 Calcium, Min 1 Salt, Min 1 Cobalt 3 Copper 2 Zinc
OWENSBORO GRAIN CO INC, OWENSBORO, KY	73	73	100%	82	82	100%	None
PACIFIC COAST DISTRIBUTING, PHOENIX, AZ	17	16	94%	153	152	99%	1 Crude Protein
PAMPERED PET TREATS, ALPINE, CA	3	3	100%	27	27	100%	None
PATTON FARMS, LONDON, KY	4	4	100%	17	17	100%	None
PENN PAK INC, MADISON, GA	1	1	100%	3	3	100%	None
PENNFIELD ANIMAL HEALTH, OMAHA, NE	1	1	100%	1	1	100%	None

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Name	Samples			Analyses			Violations
	Total	Passed	%	Total	Passed	%	
PERFORMANCE FEEDS, RED BOILING SPGS, TN	4	2	50%	23	21	91%	1 Crude Protein 1 Crude Fiber, Max
PERKY PET PRODUCTS, LITITIZ, PA	1	1	100%	2	2	100%	None
PET GOODS MFG & IMPORTS, DAHLONEGA, GA	1	0	0%	5	4	80%	1 Crude Fat, Min
PET VENTURES/ORRAA, AGOURA HILLS, CA	2	2	100%	6	6	100%	None
PET-AG INC, HAMPSHIRE, IL	3	3	100%	16	16	100%	None
PETCO ANIMAL SUPPLIES INC., SAN DIEGO, CA	8	6	75%	91	89	98%	2 Ash
PETGUARD INC, GREEN COVE SPGS, FL	9	8	89%	83	82	99%	1 Crude Protein
PETRAPPOR INC, NORTH BERGEN, NJ	7	5	71%	30	28	93%	2 Crude Protein
PETS INTERNATIONAL LTD, ELK GROVE VILLAGE, IL	1	0	0%	4	3	75%	1 Weight Net
PHELPS INDUSTRIES LLC, WAKEFIELD, MA	1	1	100%	3	3	100%	None
PLEASANT VIEW FARMS AGRI SVCS, AUBURN, KY	4	4	100%	9	9	100%	None
PMI NUTRITION INC, BRENTWOOD, MO	8	6	75%	82	80	98%	2 Vitamin A
PREMIER FEED COMPANY, WILMINGTON, OH	2	1	50%	12	11	92%	1 Zinc
PREMIUM NUTRITIONAL PRODUCTS, MISSION, KS	4	4	100%	7	7	100%	None
PRETTY BIRD INTL INC, STACY, MN	3	3	100%	24	24	100%	None
PRINCE AGRI PRODUCTS INC, QUINCY, IL	1	1	100%	4	4	100%	None
PRODUCER FEEDS, LOUISVILLE, KY	25	22	88%	142	139	98%	2 Lysine 1 Acid Detergent Fiber
PRODUCERS RICE MILL INC, STUTTGART, AR	1	1	100%	3	3	100%	None
PROFESSIONAL PET CO, META, MO	2	2	100%	7	7	100%	None
PROGRESSIVE NUTRITION, LEWISBURG, OH	10	8	80%	68	65	96%	1 Copper 1 Zinc 1 Vitamin A
PRO-PET LLC, ST MARYS, OH	10	10	100%	123	123	100%	None
PUP E LUV, CHESTER SPRINGS, PA	2	2	100%	6	6	100%	None
PURINA MILLS INC, ST. LOUIS, MO	131	113	86%	870	849	98%	9 Crude Protein 3 Copper 2 Manganese 3 Potassium 2 Zinc 2 Vitamin A
RAGLAND MILLS INC, NEOSHO, MO	1	1	100%	8	8	100%	None
RAY M YODER FEED MILL, MARION, KY	17	11	65%	110	104	95%	4 Crude Protein 1 Calcium, Min 1 Copper
RED A FEEDS, MANKATO, MN	13	7	54%	73	65	89%	2 Copper 5 Zinc 1 Vitamin A
REDBARN PET PRODUCTS INC, LONG BEACH, CA	3	3	100%	20	20	100%	None
REP CAL RESEARCH LABS, LOS GATOS, CA	1	1	100%	2	2	100%	None
RICELAND FOODS, STUTTGART, AR	2	2	100%	4	4	100%	None
RICHDEL INC, CARSON CITY, NV	4	0	0%	35	28	80%	2 Crude Protein 2 Phosphorus, Min 1 Copper 1 Iron 1 Zinc
RIP'S FARM CENTER, TOLLESBORO, KY	28	27	96%	145	144	99%	1 Crude Fiber, Max
RIVER VALLEY ANIMAL FOODS, ROBARDS, KY	14	14	100%	59	59	100%	None
ROLF C. HAGEN (USA) CORP, MANSFIELD, MA	4	3	75%	16	14	88%	1 Manganese 1 Zinc
ROSE ACRE FARMS, SEYMOUR, IN	5	5	100%	6	6	100%	None
ROUDYBUSH INC, WOODLAND, CA	1	1	100%	4	4	100%	None
ROYAL CANIN USA INC/RUTH ADAIR, ST CHARLES, MO	2	2	100%	4	4	100%	None

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	Total	Passed	%	Total	Passed	%	
RUCKELS FARM SUPPLY, WAYNESBURG, KY	17	13	76%	69	65	94%	3 Crude Protein 1 Potassium
RUDYS FARM CENTER, KEVIL, KY	5	5	100%	39	39	100%	None
RURAL KING, MATTOON, IL	5	5	100%	21	21	100%	None
RUSH DIRECT INC, WOOD DALE, IL	1	1	100%	4	4	100%	None
RUSSELL COUNTY FEED MILL, RUSSELL SPGS, KY	2	1	50%	12	11	92%	1 Potassium
S S BRECK, HARDINSBURG, KY	4	4	100%	16	16	100%	None
S S CNTRL KY SVC HARRDSBRG, HARRODSBURG, KY	3	2	67%	11	10	91%	1 Crude Protein
S S COOP INC, RICHMOND, VA	178	154	87%	1,283	1,256	98%	8 Crude Protein 1 Phosphorus, Min 6 Cobalt 1 Copper 1 Manganese 3 Zinc 7 Vitamin A
S S CYNTHIANA, CYNTHIANA, KY	2	2	100%	6	6	100%	None
S S FLEMINGSBURG, FLEMINGSBURG, KY	3	3	100%	17	17	100%	None
S S GLASGOW, GLASGOW, KY	1	1	100%	8	8	100%	None
S S HENDERSON, HENDERSON, KY	1	0	0%	4	3	75%	1 Potassium
S S HOPKINSVILLE, HOPKINSVILLE, KY	3	2	67%	18	17	94%	1 Zinc
S S LEITCHFIELD, LEITCHFIELD, KY	14	10	71%	61	57	93%	4 Crude Protein
S S LONDON, LONDON, KY	2	2	100%	9	9	100%	None
S S OWENSBORO, OWENSBORO, KY	1	1	100%	5	5	100%	None
S S OWINGSVILLE SVC, OWINGSVILLE, KY	4	3	75%	14	13	93%	1 Crude Protein
SANIMAX AMX LLC, COLUMBUS, OH	1	1	100%	7	7	100%	None
SAVE-A-LOT FOOD STORES INC, BOISE, ID	8	7	88%	81	80	99%	1 Crude Fat, Min
SHELL & KAMPETER, ST THOMAS, MO	5	5	100%	57	57	100%	None
SCHOCHOH MILLS INC, ADAIRVILLE, KY	1	1	100%	4	4	100%	None
SCIENCE HILL MILLING CO, SCIENCE HILL, KY	9	7	78%	29	27	93%	1 Crude Protein 1 Crude Fat, Min
SCOTT PET PRODUCTS, ROCKVILLE, IN	2	2	100%	16	16	100%	None
SEITER FARMS, CALIFORNIA, KY	1	1	100%	1	1	100%	None
SEMINOLE FEEDS, OCALA, FL	1	1	100%	4	4	100%	None
SERGEANTS PET CARE PRODUCTS, OMAHA, NE	5	3	60%	22	20	91%	1 Crude Protein 1 Crude Fat, Min
SEVENTY FEEDS LLC, EUBANK, KY	2	0	0%	8	6	75%	2 Potassium
SIEMER ENTERPRISES INC, TEUTOPOLIS, IL	1	0	0%	3	2	67%	1 Crude Protein
SIEMER MILLING COMPANY, HOPKINSVILLE, KY	2	2	100%	8	8	100%	None
SIMMONS PET FOOD INC, SILOAM SPRINGS, AR	4	4	100%	48	48	100%	None
SITTIN PRETTY DOG BAKERY, TUSTIN, CA	1	0	0%	14	13	93%	1 Crude Protein
SMITH SOUTH SIDE FEED & GRAIN, BOWLING GREEN, KY	5	5	100%	45	45	100%	None
SOJOURNER FARMS, MINNEAPOLIS, MN	1	0	0%	4	3	75%	1 Crude Fat, Min
SOLID GOLD HEALTH PRODUCTS, EL CAJON, CA	8	7	88%	74	73	99%	1 Crude Protein
SOURCE INC, N BRANFORD, CT	1	1	100%	8	8	100%	None
SOUTHEASTERN WHOLESALE INC, BARBOURVILLE, KY	1	1	100%	5	5	100%	None
SOUTHERN STATES COOP INC, RICHMOND, VA	3	3	100%	17	17	100%	None
SOY INC/DBA HEALTHY COAT, GIBSON, IA	1	1	100%	2	2	100%	None
SPECIALTY FEEDS INC, MEMPHIS, TN	1	1	100%	3	3	100%	None
SS HARDIN COOP HODGENVILLE BRA, HODGENVILLE, KY	2	2	100%	12	12	100%	None
STARMASTER FEEDS, THORNVILLE, OH	1	1	100%	8	8	100%	None
STATON & CO LLC, MADISONVILLE, KY	1	1	100%	6	6	100%	None
STEWARTS FARM SUPPLY, BROOKSVILLE, KY	4	4	100%	15	15	100%	None
SUMMERSVILLE FEED MILL, SUMMERSVILLE, KY	4	4	100%	20	20	100%	None
SUN SEED CO INC, BOWLING GREEN, OH	5	3	60%	16	14	88%	1 Crude Protein 1 Crude Fat, Min

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	Total	Passed		Total	Passed		
SUN VALLEY FEED MILL, BROWNSVILLE, KY	2	2	100%	11	11	100%	None
SUNSHINE MILLS INC, RED BAY, AL	8	8	100%	80	80	100%	None
SUNSHINE PET TREATS INC, RED BAY, AL	1	1	100%	3	3	100%	None
SUPREME MILLS, GLASGOW, KY	7	6	86%	64	63	98%	1 Salt, Min
SUPREME PET PRODUCTS, FERNDALE, WA	1	1	100%	4	4	100%	None
SWEETLIX LLC/HUBBARD FEEDS, MANKATO, MN	1	1	100%	7	7	100%	None
SYNERGY LABS, FT LAUDERDALE, FL	2	2	100%	11	11	100%	None
T & H FEED SERVICE, LEBANON, KY	1	1	100%	5	5	100%	None
TAPPS FEED & FARM SUPPLY, SHELBYVILLE, KY	3	2	67%	18	17	94%	1 Vitamin A
TARGET CORPORATION, MINNEAPOLIS, MN	8	8	100%	35	35	100%	None
TATE&LYLE INGREDIENTS AMERICAS, DECATUR, IL	8	8	100%	17	17	100%	None
TEDS FEED STORE, MIDDLESBORO, KY	1	1	100%	4	4	100%	None
TENNESSEE FARMERS COOPERATIVE, LAVERGNE, TN	1	1	100%	5	5	100%	None
TETRA HOLDING (US)/TETRA WERKE, BLACKSBURG, VA	3	2	67%	9	8	89%	1 Moisture
THE FEED BARN OF WEST CHESTER, WEST CHESTER, OH	1	1	100%	3	3	100%	None
THE GOODLIFE RECIPE PETCARE CO, BRENTWOOD, TN	5	5	100%	31	31	100%	None
THE HORSE BARN, TAYLORSVILLE, KY	3	3	100%	14	14	100%	None
THE MEOW MIX COMPANY, SEACUCUS, NJ	11	9	82%	134	128	96%	2 Lysine 2 Magnesium 2 Potassium
THREE DOG BAKERY, KANSAS CITY, MO	3	2	67%	19	18	95%	1 Crude Fat, Min
TIZWHIZ SALES LTD, SOUTH CHARLESTON, OH	2	1	50%	11	10	91%	1 Manganese
TOPS PET PRODUCTS, BEVERLY, MA	1	1	100%	4	4	100%	None
TRACTOR SUPPLY COMPANY, BRENTWOOD, TN	35	32	91%	238	234	98%	1 Crude Protein 1 Iron 1 Manganese 1 Vitamin A
T-REX PRODUCTS, CHULA VISTA, CA	2	2	100%	19	19	100%	None
TRI STATE PACKAGING CO, WOOSTER, OH	4	4	100%	8	8	100%	None
TRI-COUNTY FEEDS, LIBERTY, KY	5	0	0%	26	18	69%	1 Crude Protein 1 Lysine 1 Crude Fat, Min 2 Crude Fiber, Max 1 Potassium 2 Zinc
TRI-COUNTY FERTILIZER, RICHMOND, KY	11	10	91%	41	40	98%	1 Crude Protein
TRIMBLE CO FARM SUPPLY, MILTON, KY	1	1	100%	4	4	100%	None
TRIPLE CROWN NUTRITION INC, WAYZATA, MN	3	1	33%	27	23	85%	2 Iron 1 Manganese 1 Zinc
TUGGLE FEEDS, HARRODSBURG, KY	5	5	100%	15	15	100%	None
TUTTLE'S HORSE CARE DIV, CODY, WY	1	0	0%	11	9	82%	1 Copper 1 Manganese
TWO RIVERS INC, DRAKESBORO, KY	4	3	75%	19	17	89%	1 Copper 1 Zinc
ULTRA PET CO INC, ANDERSON, SC	1	1	100%	4	4	100%	None
UNITED PET GROUP, CIBOLO, TX	1	1	100%	5	5	100%	None
UNITED SALT CORP/KATHY DUBIEL, HOUSTON, TX	1	1	100%	7	7	100%	None
VALLEY FARM CENTER INC, MONTICELLO, KY	1	0	0%	3	2	67%	1 Crude Protein
VARIETY PET FOODS, ENGLEWOOD, CO	2	2	100%	30	30	100%	None
VETERINARIANS BEST, SANTA BARBARA, CA	1	0	0%	2	1	50%	1 Crude Protein
VETERINARY PRESCRIPTION FEEDS, MAYFIELD, KY	1	1	100%	15	15	100%	None
VITA FLEX NUTRITION CO INC, COUNCIL BLUFF, IA	2	2	100%	9	9	100%	None
VITAKRAFT PET PRODUCTS CO INC, BOUND BROOK, NJ	5	5	100%	18	18	100%	None
VMX PET VANTAGE, SECAUCUS, NJ	2	2	100%	7	7	100%	None
W C MILLING LLC, SEAMAN, OH	1	1	100%	7	7	100%	None

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WALMART STORES INC, BENTONVILLE, AR	10	10	100%	78	78	100%	None
WELLNESS/OLD MOTHER HUBBARD, TEWKSBURY, MA	13	12	92%	121	120	99%	1 Crude Protein
WELLS PET FOODS CORP, MONMOUTH, IL	5	1	20%	66	62	94%	4 Calcium, Min
WESTWAY TRADING/J PRIMEAUX, NEW ORLEANS, LA	3	2	67%	25	24	96%	1 Iron
WHOLE FOODS MARKET, AUSTIN, TX	7	7	100%	64	64	100%	None
WILDGAME INNOVATIONS LLC, BROUSSARD, LA	2	2	100%	4	4	100%	None
WILLARD MILLING, INC, WILLARD, KY	20	18	90%	158	156	99%	1 Crude Fat, Min 1 Zinc
WILSON FARM SUPPLY INC, NANCY, KY	2	2	100%	3	3	100%	None
WINCHESTER FEED & SUPPLY INC, WINCHESTER, KY	5	5	100%	29	29	100%	None
WINSTON COMPANY, TULSA, OK	1	1	100%	10	10	100%	None
WITTE FEEDS INC, DALE, IN	8	8	100%	56	56	100%	None
WOODFORD FEED CO, VERSAILLES, KY	3	3	100%	20	20	100%	None
WOODYS PERFORMANCE HORSE FEED, DICKINSON, ND	1	1	100%	4	4	100%	None
WOOLF PRODUCTS, BENICIA, CA	1	1	100%	2	2	100%	None
WYSONG CORP, MIDLAND, MI	2	1	50%	28	27	96%	1 Crude Protein
YODERS FEED & SUPPLY, RUSSELLVILLE, KY	5	4	80%	31	29	94%	1 Potassium 1 Zinc
ZUKE'S, DURANGO, CO	6	4	67%	18	16	89%	2 Crude Protein

Analytical Variations

Control officials use analytical variations (AVs) as a guide for issuing a violation with respect to the label guarantee. A product is required to meet the label guarantee as well as represent the composition of the product. Kentucky's AVs use the Association of American Feed Control Officials AVs as a basis for minimum and maximum guarantees. The AV's allow for the inherent variability in laboratory analyses. AV's apply to a single determination under routine laboratory conditions. The reported value for an analyte in the sample undergoes a review with respect to the guarantee using the AV's as the guide. Consideration of the manufacturer's historical performance may affect support of enforcement action.

The Regulatory Services laboratory employs the following AVs:

Crude Protein	- 3%	+ 50%	Dichlorvos	- 20%	+ 30%
NPN Equiv. Protein (urea)		+ 2 units	Hygromycin B	- 25%	+ 20%
Crude Fat	- 2 units	+ 5 units	Lincomycin	- 25%	+ 35%
Crude Fiber		+ 2 units	Melegestrol Acetate	- 30%	+ 30%
Calcium	- 2 units	+ 2 units	Methoprene	- 30%	+ 30%
Phosphorus	- 2 units	+ 2 units	Monensin	- 30%	+ 30%
Salt	- 2 units	+ 2 units	Oxytetracycline	- 30%	+ 30%
Cobalt	- 40%	+ 200%	Penicillin	- 35%	+ 35%
Copper	- 40%	+ 200%	Pyrantel Tartrate	- 25%	+ 25%
Iodine	- 40%	+ 200%	Rabon	- 25%	+ 30%
Iron	- 40%	+ 200%	Roxarsone	- 25%	+ 25%
Magnesium	- 40%	+ 200%	Sulfamethazine	- 20%	+ 20%
Manganese	- 40%	+ 200%	Sulfaquinolaxine	- 25%	+ 25%
Potassium	- 30%		Sulfathiazole	- 20%	+ 20%
Selenium	- 40%	+ 140%	Thiabendazole	- 30%	+ 30%
Sodium	- 30%	+ 130%	Tylosin	- 30%	+ 30%
Zinc	- 40%	+ 200%	Virginamycin	- 40%	+ 40%
Amprolium	- 40%	+ 20%	Zoalene	- 25%	+ 25%
Arsanilic Acid	- 20%	+ 20%	Moisture		+ 12%
Bacitracin	- 40%	+ 40%	Sodium Bicarbonate	- 30%	+ 30%
Carbadox	- 20%	+ 20%	Invert Sugar	- 10%	
Chlortetracycline	- 30%	+ 30%	Vitamin A	- 30%	+ 200%
Coumaphos	- 20%	+ 20%	Net Weight (small package)	- 5%	
Decoquinat	- 20%	+ 20%			

UNIVERSITY OF KENTUCKY
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AGRICULTURAL EXPERIMENT STATION
LEXINGTON, KY 40546

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