

Regulatory Bulletin 308

2008 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 2008 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 was 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, the 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 premises 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 12,000 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 18,300 commercial feeds for distribution in Kentucky. There are 267 commercial feed manufacturing facilities located in Kentucky.

Verification of good manufacturing practices (GMPs) 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 U.S. Food and 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 2 million tons of commercial feed. To determine compliance with label guarantees, 3,216 feed samples were collected from over 500 retail and manufacturing facilities. On average, each sample had 5.9 analyses. Sixty-two percent of the samples obtained were at a dealer, 31% at a manufacturing site, and 7% at other locations. Of the samples taken, 70.6% was bagged feed, 16.9% bulk feed, 0.5% liquid feed, 1.0% blocks, and 11.0% other. Samples represented over 22,161 tons. Of this tonnage, 19.9% was bagged, 76.6% bulk, 0.4% liquid, 1.9% blocks, and 1.2% other.

Tables 1 through 3 tabulate the number of samples for specific ingredients and feed types. The majority of samples (64.0%) represented non-specialty feeds and supplements; specialty feeds (pet foods) comprised 21.4%. Ingredients accounted for 14.6% of the samples.

Table 1. Number of feed ingredients sampled.

Type	2008	2007	2006
Alfalfa Products	2	7	6
Animal Products	19	39	37
Barley Products	0	0	3
Corn Products	93	144	159
Cottonseed Products	16	16	13
Distillers Products	73	79	83
Mineral Ingredients	13	14	47
Molasses Products	5	3	15
Oat Products	3	8	6
Rice Products	2	7	7
Soybean Products	220	266	273
Wheat Products	13	11	16
Other	10	7	7
Total	469	601	672

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

Species/Type	2008	2007	2006
Poultry	154	137	154
Beef	334	368	407
Dairy	90	112	133
Swine	161	160	172
Sheep	21	11	18
Rabbit	31	33	42
Calf	68	60	86
Horse	369	274	343
Goat	60	59	82
Scratch & Gamebird	62	80	67
Fish Food	18	15	22
Custom Mix	120	171	249
Liquid	5	4	12
Blocks	38	25	53
Minerals	243	320	336
Drugs	12	19	28
Vitamins	6	7	3
Microbials	3	5	12
Other	265	201	274
Total	2,060	2,061	2,493

Feed Mill Inspections

The medicated feed program 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 does not require an FDA license. Most mills mix only exempt drugs. All mills must comply with good manufacturing practice regu-

Table 3. Number of specialty feeds sampled.

Type	2008	2007	2006
Dry Dog Food	184	185	199
Soft-Moist Dog Foods	0	0	2
Canned Dog Foods	105	144	88
Dry Cat Foods	72	70	63
Canned Cat Foods	104	101	104
Specialty Dog & Cat Products	128	206	167
Specialty Pet Products	26	29	29
Aquarium Fish Foods	28	33	54
Specialty Bird Feeds	40	48	61
Total	687	816	767

lations. Non-licensed mills are subject to less stringent regulations. As part of a national program by FDA, inspections of licensed mills occurred with participating state feed control agencies. These inspections help 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 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. 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 dis-

tribution 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 on-site feed laboratory provides the primary analytical support 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.

Product Suitability

Information from the National Research Council, the Association of American Feed Control Officials (AAFCO), and 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 foods, the label must include a nutritional adequacy statement indicating whether the AAFCO feeding test procedures or nutrient profile is used.

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

Feed Labeling

The feed label is the fundamental basis for providing consumer information and protection, equitable competition, and the regulatory foundation. By providing labeling assistance and guidance to manufacturers, the realization of labeling that promotes safety and usefulness for livestock production and

Table 4. Number of official feed analyses reported.

Analysis	2008	2007	2006
Proximate			
Crude Protein	2,796	3,204	3,432
NPN Equivalent Protein (urea)	48	106	124
Lysine	406	410	215
Crude Fat	770	579	666
Acid Hydrolysis Fat	577	182	346
Crude Fiber	732	1,119	1,000
Acid Detergent Fiber	101	297	366
Sugar, Invert	0	0	5
Ash	206	185	193
Moisture	711	660	767
Minerals			
Aluminum	2	0	0
Calcium	2,016	2,480	2,881
Cobalt	254	297	312
Copper	1,071	1,262	1,763
Iron	412	291	354
Magnesium	769	905	1,120
Manganese	635	738	873
Molybdenum	15	0	0
Phosphorus	2,032	2,560	2,898
Potassium	1,095	1,482	1,710
Salt	1,016	1,332	2,053
Selenium	4	0	0
Sodium	436	61	37
Zinc	1,265	1,548	1,835
Vitamins			
Vitamin A	378	477	576
Vitamin E	1		
Drugs			
Amprolium	0	0	3
Bacitracin	17	14	10
Carbadox	2	2	2
Chlortetracycline	94	161	163
Decoquinat	5	0	0
Lasalocid	0	0	31
Lincomycin	0	1	0
Monensin	59	84	95
Oxytetracycline	10	26	27
Penicillin	2		
Tylosin	9	9	15
Zoalene	0	0	1
Mycotoxins			
Aflatoxin	167	321	386
Fumonisin	153	317	305
Vomitoxin	31	65	34
Other			
L. Acidophilus Bacteria	1	0	3
Lactic Acid Bacteria	0	0	1
Yeast Count	1	5	4
Ingredient Listing	46	119	90
Net Weight	573	580	575
Total	18,918	21,879	25,271

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 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 to determine the nutrient composition of their manufactured feeds. This information is helpful in 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

Both inspection fees of commercial feeds sold in Kentucky and state appropriated funds support the feed regulatory program. A fee of 35 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%

Table 5. Reported tons of ingredients distributed.

Ingredient	Exempt			Non-Exempt		
	2008	2007	2006	2008	2007	2006
Alfalfa Products	1,600	2,585	3,328	1,447	409	495
Animal Products	9,224	13,999	17,449	97,805	97,649	85,041
Barley Products	273	293	395	458	934	1,082
Beet Products	438	182	659	790	422	1,164
Brewers Dried Products	108	113	134	13,770	11,885	20,612
Brewers Wet Grains	0	0	0	5,177	4,989	2,867
Citrus Products	128	4,168	0	1,560	5,297	587
Corn Products	77,595	59,134	20,789	166,178	186,452	173,886
Cottonseed Products	24,336	10,087	7,048	8,740	9,096	7,088
Distillers Dried Grain	53,036	45,723	36,747	151,894	128,565	136,079
Distillers Stillage	0	0	0	359,140	430,650	337,672
Drugs	3	51	49	193	212	526
Fats & Oils	2,775	3,824	10,275	13,984	29,776	28,071
Grain Sorghum	0	0	0	381	816	1
Linseed & Flax	409	395	353	250	384	443
Marine Products	94	231	51	286	175	60
Milk Products	827	3,036	2,812	183	134	31
Minerals	26,483	50,100	44,499	73,745	69,974	80,336
Molasses Products	39,673	22,660	39,681	14,135	6,448	15,626
Oat Products	2,335	1,807	1,855	4,172	4,802	3,279
Peanut Products	4,402	3,963	4,224	617	1,030	7
Rice Products	22,112	15,147	16,218	10,503	8,866	20,680
Rye	0	0	0	450	72	3,549
Soybean Products	248,072	219,971	146,874	645,935	552,557	502,148
Urea & Other NPN	219	290	216	2,548	2,014	974
Vitamins	3,088	104	87	2,466	1,778	2,389
Wheat Products	61,965	95,920	103,661	42,800	13,428	24,749
Whey (Liquid)	0	0	0	8,611	13,054	19,638
Grain Sold & Mixed	133,982	0	0	0	155,541	106,908
Other	4,544	5,649	9,755	18,910	39,368	27,435
Total	717,721	559,432	467,159	1,647,128	1,776,777	1,603,423

moisture, brewers wet grains, and whey distributed without further processing to the final purchaser for consumption by the purchaser's livestock have a fee of 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 2008, collected inspection and penalty fees amounted to \$1,116,856. 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.

2008 Highlights

Again, in 2008 food safety was a predominant concern. The year had product recalls involving salmonella in pet foods. The inspectors visited pet food retailers to ensure that recalled product was not in distribution. In response to a recall issued by a national distributor, approximately 80 samples of livestock feed from various manufacturers were analyzed for mycotoxins. These feeds were not adulterated. These situations once again 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 6. Reported tons of complete feeds and supplements/premixes distributed.

Type	Complete			Supplement/Premix		
	2008	2007	2006	2008	2007	2006
Chicken Starter Grower	7,633	7,116	5,090	991	400	396
Chicken Broiler	10,974	4,299	4,760	113	171	115
Chicken Layer Breeder	24,102	20,147	19,708	922	315	410
Turkey	2,192	8,757	1,928	1,504	7	3
Beef	201,594	167,105	153,868	43,420	41,170	38,571
Dairy	129,871	121,526	134,678	27,741	29,833	29,408
Swine	5,981	6,734	11,179	4,605	6,226	7,735
Sheep	3,211	4,220	4,787	463	0	0
Calf	11,695	14,738	10,632	0	0	0
Horse	107,155	110,098	106,850	0	0	0
Pet Food	151,617	264,306	296,915	0	0	0
Fish	1,836	1,769	3,620	0	0	0
Rabbit	3,345	3,547	3,755	0	0	0
Scratch Feed	4,378	4,278	2,785	0	0	0
Custom Mix	458,352	313,623	349,593	0	0	0
Other	62,874	52,228	72,289	0	0	0
Dried Molasses	0	0	0	25	47	126
Drug Premixes	0	0	0	816	2,375	1,521
Liquid	0	0	0	2,032	1,852	3,951
Microbial Products	0	0	0	30	49	89
Minerals	0	0	0	20,625	22,504	26,842
Vitamin Premix	0	0	0	2,518	2,377	1,259
Total	1,186,810	1,104,491	1,182,437	105,805	107,326	110,426

Report of Official Feed Samples Analyzed—2008

Name	Samples			Analyses			Violations
	Total	Passed	Passed	Total	Passed	Passed	
4 SEASONS MARKETING LLC, FLEMINGSBURG, KY	67	46	69%	551	517	94%	2 Crude Protein 1 NPN Equiv Protein 2 Crude Fat, Min 1 AH Fat 4 Phosphorus, Min 1 Salt, Min 2 Cobalt 4 Copper 2 Iron 3 Magnesium 1 Manganese 3 Potassium 1 Zinc 6 Vitamin A 1 Chlortetracycline
ADAIRVILLE FEED MILL #2/RVILLE, ADAIRVILLE, KY	1	1	100%	5	5	100%	None
ADAIRVILLE FEED MILL, ADAIRVILLE, KY	2	2	100%	21	21	100%	None
ADAMS FEED & SUPPLY, BRODHEAD, KY	1	0	0%	7	4	57%	1 Calcium, Min 1 Phosphorus, Min 1 Salt, Min
ADM ALLIANCE NUTRITION INC, QUINCY, IL	122	103	84%	608	584	96%	6 Crude Protein 1 Lysine 1 Crude Fiber, Max 1 Phosphorus, Min 3 Salt, Min 1 Zinc 10 Vitamin A 1 Chlortetracycline
ADM ALLIANCE NUTRITION, CAMPBELLSVILLE, KY	1	1	100%	6	6	100%	None
ADM ALLIANCE NUTRITION, HENDERSON, KY	1	1	100%	4	4	100%	None
ADM ANIMAL HEALTH/NUTRITION, DES MOINES, IA	1	1	100%	10	10	100%	None
ADM CORN PROCESSING/J ARCHER, DECATUR, IL	8	8	100%	20	20	100%	None
ADM MILLING/ST LOUIS, SHAWNEE MISSION, KS	2	2	100%	4	4	100%	None
ADM PROCESSING/SHAMARIE ALLEN, DECATUR, IL	13	13	100%	15	15	100%	None
AGRIDYNE LLC, SPRINGFIELD, IL	1	1	100%	7	7	100%	None
AHC PRODUCTS & PACKAGING INC, WINCHESTER, KY	1	0	0%	7	6	86%	1 Vitamin A
AINSWORTH PET NUTRITION, MEADVILLE, PA	3	3	100%	31	31	100%	None
ALBION LABORATORIES, INC., CLEARFIELD, UT	1	1	100%	5	5	100%	None
ALDI INC/GARY WINDMILLER, GREENWOOD, IN	7	7	100%	73	73	100%	None
ALLEN ROBERTSON CO INC, LOUISVILLE, KY	4	2	50%	16	13	81%	1 Crude Protein 1 Copper 1 Vitamin A
ALLTECH, INC., NICHOLASVILLE, KY	3	3	100%	8	8	100%	None
ALTRA INDIANA, CLOVERDALE, IN	1	1	100%	4	4	100%	None
AMERICAN HEALTH KENNELS INC, POMPANO BEACH, FL	1	1	100%	4	4	100%	None
AMPRO PRODUCTS INC, GAINESVILLE, GA	1	1	100%	3	3	100%	None
ANDERSON FARM SERVICE, LAWRENCEBURG, KY	1	1	100%	1	1	100%	None
ANTLERS & ACORNS LLC, MURRAY, KY	1	0	0%	8	4	50%	1 Calcium, Min 1 Phosphorus, Min 1 Salt, Min 1 Copper
ARCHER DANIEL MIDLAND CO, DECATUR, IL	9	9	100%	16	16	100%	None
ARCTIC PAWS, ANCHORAGE, AK	1	1	100%	2	2	100%	None
ARKAT FEEDS INC, DUMAS, AR	3	3	100%	21	21	100%	None
ARNOLD FEED & SEED, CAMPBELLSVILLE, KY	3	3	100%	11	11	100%	None
ASHLAND MILLING COMPANY INC, ASHLAND, KY	3	3	100%	15	15	100%	None
ASPEN PET PRODUCTS INC, DENVER, CO	1	1	100%	2	2	100%	None
AUTHORITY PET FOOD CO, PHOENIX, AZ	5	4	80%	42	41	98%	1 AH Fat
AZTECA MILLING LP, HENDERSON, KY	4	3	75%	26	25	96%	1 Crude Fiber, Max

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Name	Samples			Analyses			Violations
	Total	Passed		Total	Passed		
BAGDAD ROLLER MILLS, BAGDAD, KY	18	17	94%	90	89	99%	1 Phosphorus, Min
BAKERY FEEDS INC, COLD SPRINGS, KY	17	16	94%	34	33	97%	1 Crude Fat, Min
BARDSTOWN MILLS, BARDSTOWN, KY	32	13	41%	178	155	87%	10 Crude Protein 3 Acid Detergent Fiber 2 Calcium, Min 7 Salt, Min 1 Copper
BELL ROCK GROWER INC, SAN MARCOS, CA	1	0	0%	4	3	75%	1 Crude Protein
BI-COUNTY FARM BUREAU COOP, FLORENCE, KY	3	1	33%	16	14	88%	1 Crude Protein 1 Zinc
BIG BARN FARM STORE, GARRISON, KY	13	10	77%	53	47	89%	3 Salt, Min 1 Copper 1 Potassium 1 Zinc
BILL BARR & CO, OVERLAND PARK, KS	1	1	100%	1	1	100%	None
BIO PLUS INC, MADISON, GA	1	0	0%	4	3	75%	1 Crude Protein
BIOZYME INCORPORATED, ST JOSEPH, MO	4	3	75%	28	25	89%	1 Manganese 1 Zinc 1 Vitamin A
BLUE BUFFALO CO LTD, WILTON, CT	16	8	50%	222	213	96%	2 Crude Protein 3 AH Fat 4 Ash
BLUE DOG BAKERY, SEATTLE, WA	1	1	100%	3	3	100%	None
BLUE SEAL FEEDS INC, LONDONDERRY, NH	7	2	29%	68	60	88%	3 Crude Protein 3 AH Fat 1 Sodium 1 Weight, Net
BLUEGRASS AG DISTRIBUTORS, LANCASTER, KY	4	4	100%	10	10	100%	None
BLUEGRASS HORSE TREATS, BAGDAD, KY	1	0	0%	5	3	60%	1 Crude Protein 1 Crude Fiber, Max
BLUEGRASS SEED, BARDSTOWN, KY	33	28	85%	193	188	97%	1 Crude Protein 2 Salt, Min 1 Copper 1 Vitamin A
BOBBY LEE PHILLIPS, CAMPBELLSVILLE, KY	3	0	0%	19	15	79%	1 Crude Protein 2 Crude Fiber, Max 1 Zinc
BREEDERS CHOICE PET FOODS INC, IRWINDELE, CA	6	5	83%	74	73	99%	1 Calcium, Min
BROOKSVILLE FARM SUPPLY, BROOKSVILLE, KY	4	4	100%	14	14	100%	None
BUFFALO TRACE DISTILLERY INC, FRANKFORT, KY	1	1	100%	3	3	100%	None
BUNGE MILLING, DANVILLE, IL	1	1	100%	4	4	100%	None
BUNGE NORTH AMERICA (EAST) LLC, MARION, OH	1	1	100%	1	1	100%	None
BUNGE NORTH AMERICA (EAST) LLC, MORRISTOWN, IN	16	16	100%	23	23	100%	None
BUNGE NORTH AMERICA INC, CAIRO, IL	43	43	100%	46	46	100%	None
BURKMANN FEEDS OF EDMONTON, EDMONTON, KY	1	1	100%	1	1	100%	None
BURKMANN FEEDS, BOWLING GREEN, KY	20	15	75%	99	94	95%	5 Calcium, Min
BURKMANN FEEDS, DANVILLE, KY	79	65	82%	500	481	96%	1 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max 1 Acid Detergent Fiber 1 Calcium, Min 1 Phosphorus, Min 1 Salt, Min 1 Copper 1 Manganese 1 Potassium 2 Zinc 7 Vitamin A

Report of Official Feed Samples Analyzed—2008

Name	Samples			Analyses			Violations
	Total	Passed	75%	Total	Passed	93%	
BURKMANN FEEDS, EUBANK, KY	8	6	75%	28	26	93%	1 Crude Fat, Min 1 Vitamin A
BURKMANN FEEDS, GLASGOW, KY	34	30	88%	161	156	97%	2 Crude Protein 2 Calcium, Min 1 Vitamin A
BURKMANN FEEDS, HARDINSBURG, KY	2	2	100%	13	13	100%	None
BURKMANN FEEDS, LONDON, KY	6	5	83%	28	27	96%	1 Calcium, Min
BUSCH AGRICULTURAL RESOURCES, JONESBORO, AR	1	1	100%	1	1	100%	None
C & S PRODUCTS CO INC, FORT DODGE, IA	1	0	0%	3	2	67%	1 Crude Protein
CALHOUN FEED SERVICE INC, MADISONVILLE, KY	13	11	85%	84	82	98%	2 Crude Protein
CALLIHAN FEEDS, ARGILLITE, KY	2	1	50%	7	6	86%	1 Crude Protein
CANEYVILLE MILLING INC, CANEYVILLE, KY	69	47	68%	321	290	90%	2 Crude Protein 6 Calcium, Min 8 Phosphorus, Min 8 Salt, Min 3 Copper 2 Zinc 1 Aflatoxin 1 Fumonisin
CANIDAE CORPORATION, NORCO, CA	2	0	0%	19	17	89%	1 AH Fat 1 Ash
CARDINAL LABORATORIES INC, AZUSA, CA	3	1	33%	21	18	86%	1 Crude Protein 1 Phosphorus, Min 1 Zinc
CARGILL - CORN MILLING DIV, DAYTON, OH	3	3	100%	4	4	100%	None
CARGILL ANIMAL NUTRITION, MINNEAPOLIS, MN	62	51	82%	396	381	96%	1 Crude Fat, Min 2 Crude Fiber, Max 1 Calcium, Min 1 Phosphorus, Min 1 Salt, Min 1 Cobalt 1 Manganese 3 Potassium 4 Vitamin A
CARGILL DRY CORN INGREDIENT, MINNEAPOLIS, MN	3	3	100%	5	5	100%	None
CARGILL DRY CORN INGREDIENTS, PARIS, IL	2	1	50%	5	4	80%	1 Crude Fat, Min
CARGILL INC, MINNEAPOLIS, MN	9	9	100%	45	45	100%	None
CARGILL NUTRENA FEEDS, FLORA, IL	1	1	100%	9	9	100%	None
CASTOR-POLLUX PET WORKS, CLACKAMAS, OR	4	4	100%	46	46	100%	None
CATTLEMANS CHOICE LOOMIX LLC, JOHNSTOWN, CO	2	1	50%	11	9	82%	1 Crude Protein 1 Moisture
CECILIA FARM SERVICE, CECILIA, KY	9	2	22%	52	39	75%	1 Crude Protein 2 Crude Fat, Min 1 Crude Fiber, Max 4 Calcium, Min 5 Phosphorus, Min
CEL-PAK INC, DOWNERS GROVE, IL	1	0	0%	3	2	67%	1 AH Fat
CENTRAL FARM SUPPLY, LOUISVILLE, KY	15	12	80%	87	84	97%	2 Crude Fiber, Max 1 Potassium
CENTRAL FARMERS SUPPLY, GREENSBURG, KY	14	11	79%	84	81	96%	1 Crude Fat, Min 1 Salt, Min 1 Potassium
CENTRAL GARDEN & PET, FRANKLIN, WI	7	6	86%	44	43	98%	1 Ash
CHARLEE BEAR FARMS INC, ST FRANCIS, WI	1	1	100%	3	3	100%	None
CHICKASHA OF GEORGIA, TIFTON, GA	2	2	100%	9	9	100%	None
CHINA VITAMINS LLC, BEDMINSTER, NJ	1	1	100%	1	1	100%	None
CHOMP INC, DUXBURY, MA	2	2	100%	6	6	100%	None
CHS INC, INVER GROVE HEIGHTS, MN	9	9	100%	31	31	100%	None
CLARKSON GRAIN CO, CERRO GORDO, IL	1	1	100%	2	2	100%	None

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Name	Samples			Analyses			Violations
	Total	Passed	%	Total	Passed	%	
CLEMENTS AGRI-SUPPLY INC, SPRINGFIELD, KY	4	2	50%	20	18	90%	2 Potassium
CLOUD STAR, SAN LUIS OBISPO, CA	2	0	0%	7	4	57%	2 Crude Protein 1 AH Fat
COLE'S WILD BIRD PRODUCTS CO, KENNESAW, GA	2	0	0%	8	5	63%	1 Crude Protein 2 Crude Fat, Min
COMMONWEALTH AGRI-ENERGY LLC, HOPKINSVILLE, KY	11	9	82%	45	43	96%	1 Crude Protein 1 Fumonisin
CONAGRA FOODS FOOD INGRED CO, OMAHA, NE	1	1	100%	2	2	100%	None
CONSOLIDATED GRAIN & BARGE, MT VERNON, IN	11	11	100%	13	13	100%	None
COOKES FARM CENTER, IRONTON, OH	3	2	67%	19	18	95%	1 Calcium, Min
CORTA-FLX INC, AIKEN, SC	3	1	33%	14	11	79%	1 Crude Fiber, Max 1 Copper 1 Manganese
COUNTRY ACRES FEED CO INC, BRENTWOOD, MO	56	49	88%	290	282	97%	2 Crude Protein 1 Crude Fiber, Max 2 Iron 1 Potassium 1 Zinc 1 Ash
COX VETERINARY LABORATORY, CHESTER, SC	1	0	0%	4	2	50%	1 Crude Fiber, Max 1 Manganese
CPC COMMODITIES LLC, FOUNTAIN RUN, KY	79	63	80%	370	350	95%	1 Crude Protein 1 Crude Fat, Min 7 Calcium, Min 4 Phosphorus, Min 1 Salt, Min 2 Copper 2 Zinc 2 Monensin, Sodium
CROP PRODUCTION SERVICE, HORSE CAVE, KY	2	2	100%	9	9	100%	None
CUB RUN MILLING CO, CANMER, KY	2	1	50%	14	13	93%	1 Calcium, Min
CUSTOM FEED MILL LLC, MORGANFIELD, KY	30	22	73%	194	185	95%	1 Crude Protein 1 Crude Fiber, Max 1 Calcium, Min 2 Phosphorus, Min 1 Cobalt 1 Iron 2 Vitamin A
D & D COMMODITIES, STEPHEN, MN	1	1	100%	4	4	100%	None
D & D INGREDIENT DIST INC, DELPHOS, OH	2	2	100%	3	3	100%	None
DABNEY FEED & SUPPLY, SOMERSET, KY	5	3	60%	15	13	87%	1 Crude Protein 1 Crude Fiber, Max
DAD'S DOG FOODS, MEADVILLE, PA	5	4	80%	30	29	97%	1 Vitamin A
DARLING INTERANTIONAL INC, IRVING, TX	1	1	100%	3	3	100%	None
DAVENPORT FARM SUPPLY, FLEMINGSBURG, KY	8	5	63%	27	22	81%	2 Crude Protein 2 Calcium, Min 1 Copper
DAY & DAY FEED MILL, COLUMBIA, KY	1	0	0%	7	6	86%	1 Calcium, Min
DEL MONTE PET PRODUCTS, PITTSBURGH, PA	12	11	92%	155	154	99%	1 Phosphorus, Min
DELCA CORP, LAGUNA NIGUEL, CA	2	1	50%	6	5	83%	1 Crude Protein
DESIGNING HEALTH INC, VALENCIA, CA	1	1	100%	5	5	100%	None
DIAMOND PET FOODS CO, META, MO	12	9	75%	111	108	97%	2 Calcium, Min 1 Ash
DIAMOND V MILLS INC, CEDAR RAPIDS, IA	1	1	100%	2	2	100%	None
DIXIE FEED & SUPPLY, FALMOUTH, KY	3	3	100%	4	4	100%	None
DOANE PET CARE, BRENTWOOD, TN	4	3	75%	16	15	94%	1 Moisture
DOGGIE DE LITES INC, ALPHARETTA, GA	2	2	100%	6	6	100%	None
DOGMATIC PRODUCTS INC, BROOKLYN, NY	1	0	0%	2	1	50%	1 Crude Protein
DOLGEN CORP, GOODLETTSVILLE, TN	9	9	100%	90	90	100%	None

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	Total	Passed		Total	Passed		
EIGHT IN ONE PET PRODUCTS, ISLANDIA, NY	8	7	88%	36	35	97%	1 AH Fat
EMBASSY INTERNATIONAL, INC., CINCINNATI, OH	5	5	100%	40	40	100%	None
ENDRES PROCESSING MICHIGAN LLC, UPPER SANDUSKY, OH	1	1	100%	2	2	100%	None
EQUINE AMERICA INC, AIKEN, SC	1	1	100%	3	3	100%	None
EQUISUPPLEMENT LTD INC, RUSHVILLE, IN	1	0	0%	5	1	20%	1 Lysine 1 Copper 1 Manganese 1 Zinc
EQUITY GROUP-KY DIVISION LLC, FRANKLIN, KY	1	1	100%	6	6	100%	None
EST LLC, WINNSBORO, LA	1	0	0%	6	4	67%	1 Crude Fat, Min 1 Calcium, Min
EVOLVED HABITATS, BATON ROUGE, LA	8	5	63%	41	35	85%	2 Crude Protein 1 Crude Fiber, Max 1 Cobalt 1 Magnesium 1 Zinc
EXCLUSIVELY PET INC, MILWAUKEE, WI	2	2	100%	6	6	100%	None
EXL MILLING LTD, CANADA S9V 0Y7	1	0	0%	3	2	67%	1 Crude Fiber, Max
F M BROWNS SONS INC, SINKING SPRING, PA	4	3	75%	11	10	91%	1 Crude Protein
F W COBS COMPANY INC, SAINT ALBANS BAY, VT	1	0	0%	6	3	50%	1 Acid Detergent Fiber 1 Calcium, Min 1 Moisture
FAITHWAY FEED CO INC, GUNTERSVILLE, AL	7	7	100%	44	44	100%	None
FARMER'S CHOICE FEED MILL, KIRKSEY, KY	3	3	100%	16	16	100%	None
FARMERS FEED MILL, LEXINGTON, KY	19	8	42%	118	104	88%	1 NPN Equiv Protein 1 Crude Fat, Min 1 Calcium, Min 4 Salt, Min 1 Iron 6 Vitamin A
FARNAM CO/HORSE PRODUCTS DIV, PHOENIX, AZ	7	3	43%	74	68	92%	1 Cobalt 1 Copper 1 Magnesium 1 Zinc 2 Vitamin A
FEED SOLUTIONS, ST LOUIS, MO	1	1	100%	6	6	100%	None
FEEDERS SUPPLY COMPANY, LOUISVILLE, KY	3	3	100%	9	9	100%	None
FINISH LINE HORSE PRODUCTS, BENSENVILLE, IL	1	0	0%	6	5	83%	1 Crude Fiber, Max
FIRST COMPANION VETERINARY, WESTLAKE, TX	2	1	50%	11	10	91%	1 Crude Protein
FISHBELT FEEDS INC, MOORHEAD, MS	1	1	100%	2	2	100%	None
FLUKER FARMS INC, PORT ALLEN, LA	2	0	0%	9	6	67%	2 Crude Protein 1 AH Fat
FOOD LION STORES, SALISBURY, NC	10	9	90%	101	100	99%	1 Zinc
FRANK HINTON & SON, PLUMMERS LANDING, KY	9	7	78%	61	57	93%	1 Crude Protein 1 Crude Fiber, Max 1 Acid Detergent Fiber 1 Salt, Min
FRANTZEN FARM FEEDS LLC, NEW HAMPTON, IA	2	1	50%	7	6	86%	1 Acid Detergent Fiber
FREDS INC - TERRI JOHNSON, MEMPHIS, TN	9	8	89%	117	116	99%	1 AH Fat
FREE RANGE DOG CHEWS LLC, STERLING HEIGHT, MI	1	0	0%	4	3	75%	1 Ash
FURST-MCNESS CO, FREEPORT, IL	2	1	50%	14	12	86%	1 Phosphorus, Min 1 Vitamin A
GATEWAY PRODUCTS INC, HOLLY, CO	1	0	0%	15	14	93%	1 Vitamin A
GHC MILLING, FORDSVILLE, KY	10	7	70%	45	42	93%	3 Salt, Min
GILLAMS FARM SUPPLY, OLIVE HILL, KY	4	4	100%	23	23	100%	None

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	Total	Passed	Total	Passed			
GOLD CITY FEED MILL, FRANKLIN, KY	9	9	100%	63	63	100%	None
GOLDENROD FEEDS, LIBERTY, KY	5	5	100%	11	11	100%	None
GPC PET PRODUCTS, MUSCATINE, IA	1	1	100%	2	2	100%	None
GRAIN PROCESSING CORPORATION, MUSCATINE, IA	3	1	33%	5	3	60%	2 Crude Protein
GRAIN PROCESSING CORPORATION, WASHINGTON, IN	2	2	100%	4	4	100%	None
GRAND MEADOWS INC, ORANGE, CA	1	0	0%	7	5	71%	1 Crude Fat, Min 1 Crude Fiber, Max
GRANT CO FARM SUPPLY, DRY RIDGE, KY	2	2	100%	6	6	100%	None
GREEN RIVER FEED MILL, MORGANTOWN, KY	6	1	17%	33	24	73%	4 Crude Protein 1 Crude Fat, Min 1 Calcium, Min 1 Phosphorus, Min 1 Copper 1 Zinc
GRIFFIN INDUSTRIES INC, COLD SPRINGS, KY	3	3	100%	3	3	100%	None
HALLS FARM SUPPLY & METAL SALE, GREENUP, KY	2	1	50%	16	15	94%	1 Crude Protein
HALO-PURELY FOR PETS, TAMPA, FL	6	4	67%	88	86	98%	1 AH Fat 1 Sodium
HARDIN COUNTY MILLING COMPANY, ELIZABETHTOWN, KY	8	7	88%	36	35	97%	1 Crude Protein
HARDINBURG FARM SUPPLY, HARNED, KY	5	4	80%	23	22	96%	1 Copper
HARTZ MOUNTAIN CORPORATION, SECAUCUS, NJ	6	6	100%	24	24	100%	None
HBD INTERNATIONAL INC, BRENTWOOD, TN	1	1	100%	3	3	100%	None
HBH ENTERPRISES, SPRINGVILLE, UT	3	2	67%	6	5	83%	1 Crude Protein
HEALTH-PRO NUTRITION, PICO RIVERA, CA	2	1	50%	5	4	80%	1 Crude Protein
HEALTHY PET FOODS/INTEGRATED P, WEST CHESTER, PA	3	2	67%	31	29	94%	1 AH Fat 1 Calcium, Min
HEARTBREAK RIDGE FARM SUPPLY, CLAY CITY, KY	1	1	100%	7	7	100%	None
HEDGEPEETH SUPPLY, CANMER, KY	10	6	60%	70	63	90%	2 Phosphorus, Min 2 Copper 3 Vitamin A
HERITAGE FEED & GRAIN INC, BOWLING GREEN, KY	3	2	67%	21	20	95%	1 Zinc
HIGGINS GROUP CORPORATION, MIAMI, FL	2	2	100%	9	9	100%	None
HIKARI SALES USA INC, HAYWARD, CA	3	3	100%	5	5	100%	None
HILLS PET NUTRITION INC, TOPEKA, KS	9	9	100%	65	65	100%	None
HISEVILLE FEED & SEED COMPANY, HISEVILLE, KY	1	1	100%	8	8	100%	None
HI-TEK RATIONS, DUBLIN, GA	2	2	100%	24	24	100%	None
HOOVERS FEED MILL, SCOTTSVILLE, KY	5	4	80%	26	25	96%	1 Zinc
HORSE HEALTH PRODUCTS, PHOENIX, AZ	7	6	86%	44	43	98%	1 Vitamin A
HOWE FARM SUPPLY, VANCEBURG, KY	1	1	100%	5	5	100%	None
HUBBARD FEEDS INC, MANKATO, MN	42	34	81%	256	247	96%	1 Crude Protein 1 Phosphorus 1 Magnesium 1 Zinc 4 Vitamin A 1 Chlortetracycline
HUBBARD FEEDS INC/PET FOOD DIV, MANKATO, MN	2	2	100%	10	10	100%	
HUNTERS SPECIALTIES INC, CEDAR RAPIDS, IA	1	1	100%	12	12	100%	None
HYLAND CO INC, ASHLAND, KY	18	8	44%	210	197	94%	6 AH Fat 2 Calcium, Min 1 Phosphorus, Min 2 Potassium 1 Zinc 1 Ash
IAMS FOOD COMPANY, LEWISBURG, OH	9	9	100%	110	110	100%	None
ICE'S PRODUCE, BARDSTOWN, KY	2	2	100%	4	4	100%	None
ILC RESOURCES, DES MOINES, IA	1	1	100%	1	1	100%	None

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INCOBRASA INDUSTRIES LTD, GILMAN, IL	5	5	100%	5	5	100%	None
INDIANA BIO-ENERGY LLC, BLUFFTON, IN	1	1	100%	6	6	100%	None
INTEGRITY FEEDS LLC, OWENSBORO, KY	45	31	69%	238	221	93%	6 Crude Protein 3 Phosphorus, Min 5 Salt, Min 2 Zinc 1 Vitamin A
INTER AMERICAN, CINCINNATI, OH	9	7	78%	66	64	97%	1 AH Fat 1 Ash
INTL PET SUPPLIES/DISTRIBUTION, SAN DIEGO, CA	5	5	100%	40	40	100%	None
JABETOWN MILL, EWING, KY	3	3	100%	19	19	100%	None
JBS UNITED INC, SHERIDAN, IN	1	0	0%	6	5	83%	1 Salt, Min
JEFFRIES FEED SEED & SUPPLY, CAMPBELLSVILLE, KY	1	1	100%	5	5	100%	None
JIM BEAM BRANDS, CLERMONT, KY	2	2	100%	4	4	100%	None
JOJO'S BEST, EDEN, ID	1	0	0%	5	4	80%	1 Crude Fat, Min
JT ENTERPRISES, MYRA, KY	1	1	100%	2	2	100%	None
K-9 FOODS LLC, SENECA, KS	1	0	0%	12	10	83%	1 AH Fat 1 Calcium, Min
KALMBACH FEEDS INC, UPPER SANDUSKY, OH	42	30	71%	248	235	95%	5 Crude Protein 1 Crude Fat, Min 1 Crude Fiber, Max 1 Acid Detergent Fiber 1 Calcium, Min 1 Zinc 3 Vitamin A
KAYTEE PRODUCTS INC, CHILTON, WI	10	9	90%	46	45	98%	1 Crude Fat, Min
KENT FEEDS INC, ALTOONA, IA	1	1	100%	4	4	100%	None
KENT FEEDS INC/RICH CRADDICK, MUSCATINE, IA	46	40	87%	309	303	98%	1 Crude Protein 5 Vitamin A
KENTUCKY EQUINE RESEARCH INC, VERSAILLES, KY	6	4	67%	36	34	94%	1 Iron 1 Sodium
KENTUCKY NUTRITION SERVICE, LAWRENCEBURG, KY	26	23	88%	235	231	98%	1 Phosphorus, Min 1 Iron 1 Magnesium 1 Potassium
KENTUCKY PERFORMANCE PRODUCTS, VERSAILLES, KY	1	1	100%	9	9	100%	None
KERRY INGREDIENTS, EVANSVILLE, IN	2	2	100%	3	3	100%	None
KEYNES BROTHERS, LOGAN, OH	3	3	100%	6	6	100%	None
KINGSTON FARMERS EXCHANGE INC, KINGSTON, OH	2	0	0%	26	24	92%	1 Crude Protein 1 AH Fat
KLN ENTERPRISES INC, PERHAM, MN	5	4	80%	60	59	98%	1 Crude Protein
K-MART CORPORATION, HOFFMAN ESTATES, IL	7	7	100%	48	48	100%	None
KONG COMPANY, GOLDEN, CO	1	1	100%	5	5	100%	None
KRISLIN INC, LANSING, MI	1	0	0%	8	5	63%	1 Calcium, Min 1 Phosphorus, Min 1 Vitamin A
KROGER, CINCINNATI, OH	4	3	75%	37	35	95%	1 Crude Fiber, Max 1 Calcium, Min
K-STAR COMMODITIES, HOPKINSVILLE, KY	1	1	100%	8	8	100%	None
LAFEVER COMPANY, CORNELL, IL	1	1	100%	4	4	100%	None
LAKE CUMBERLAND FEED & FARM, RUSSELL SPRINGS, KY	1	1	100%	5	5	100%	None
LAKE CUMBERLAND MILLING LLC, MONTICELLO, KY	2	2	100%	12	12	100%	None
LAMA WELLNESS SERVICE INC, HENDERSON, KY	3	3	100%	17	17	100%	None
LAND O'LAKES PURINA FEED LLC, SHOREVIEW, MN	4	3	75%	29	26	90%	1 Crude Fiber, Max 1 Magnesium 1 Vitamin A
LEMSTERS MILL LLC, SMITHS GROVE, KY	13	12	92%	73	72	99%	1 Salt, Min

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LEO GABBARD, WEST HARRISON, IN	1	0	0%	12	10	83%	1 Calcium, Min 1 Phosphorus, Min
LESTER STUTZMAN FEED MILL, MARION, KY	13	10	77%	64	61	95%	1 Crude Protein 2 Salt, Min
LIFE DATA LABS INC, CHEROKEE, AL	1	1	100%	10	10	100%	None
LIVESTOCK MANAGEMENT SVC, BOWLING GREEN, KY	7	6	86%	58	57	98%	1 Magnesium
LOUIS DREYFUS CLAYPOOL HOLDING, KANSAS CITY, MO	1	1	100%	3	3	100%	None
LUTTRULL FEED SERVICE, PEMBROKE, KY	3	3	100%	10	10	100%	None
M & M FEEDS, AUSTIN, KY	1	0	0%	8	4	50%	1 Crude Fiber, Max 1 Salt, Min 1 Copper 1 Zinc
M & W MILLING COMPANY INC, COLUMBIA, KY	6	5	83%	24	23	96%	1 Crude Fiber, Max
M J PRITCHARD INC, DICKINSON, ND	1	1	100%	3	3	100%	None
MANNA PRO PRODUCTS, LLC, ST LOUIS, MO	3	2	67%	17	15	88%	1 Crude Protein 1 Phosphorus, Min
MANZANOLA FEEDS, MANZANOLA, CO	1	1	100%	2	2	100%	None
MARION FEED MILL INC, MARION, KY	10	10	100%	61	61	100%	None
MARS FISHCARE NORTH AMERICA, CHALFONT, PA	3	3	100%	10	10	100%	None
MARS PETCARE US INC, FRANKLIN, TN	1	1	100%	14	14	100%	None
MARSHALL PET PRODUCTS, WOLCOTT, NY	1	1	100%	2	2	100%	None
MARTINS FEED & SUPPLY, LIBERTY, KY	8	7	88%	34	31	91%	1 Calcium, Min 1 Phosphorus, Min 1 Salt, Min
MASTERFOODS USA/KAL KAN, VERNON, CA	8	8	100%	106	106	100%	None
MAYS LICK MILL, MAYS LICK, KY	8	7	88%	63	62	98%	1 Chlortetracycline
MCCAULEY BROS INC, VERSAILLES, KY	16	14	88%	127	125	98%	2 Crude Protein
MCGAHAN & COMPANY, PAINTSVILLE, KY	3	0	0%	17	14	82%	2 Crude Protein 1 Calcium, Min
MCRAY FEED LLC, HARRODSBURG, KY	20	13	65%	91	77	85%	1 Crude Protein 3 Crude Fiber, Max 1 Calcium, Min 2 Phosphorus, Min 1 Salt, Min 1 Magnesium 1 Manganese 1 Potassium 3 Zinc
MEIJER INC, GRAND RAPIDS, MI	7	6	86%	56	55	98%	1 AH Fat
MELICK AQUA FEED INC, CATAWISSA, PA	4	3	75%	17	16	94%	1 Crude Protein
MENU FOODS, PENNSAUKEN, NJ	1	0	0%	2	1	50%	1 Crude Protein
MERRICK PETFOODS INC, AMARILLO, TX	11	6	55%	148	143	97%	1 Crude Protein 2 Zinc 1 Ash 1 Weight, Net
MFOLP, CANADA L5N 1B1	1	0	0%	3	2	67%	1 AH Fat
MFS (SUMMER SHADE), EDMONTON, KY	1	0	0%	7	6	86%	1 Salt, Min
MFS ALLIANCE INC, EDMONTON, KY	13	9	69%	51	47	92%	1 Crude Protein 2 Crude Fiber, Max 1 Calcium, Min
MID-SOUTH MILLING CO, MEMPHIS, TN	3	0	0%	12	9	75%	3 Crude Fat, Min
MID-STATES DISTRIBUTING CO, ST. PAUL, MN	6	6	100%	34	34	100%	None
MIDWESTERN PET FOODS INC, EVANSVILLE, IN	14	9	64%	103	96	93%	1 Crude Protein 1 AH Fat 2 Magnesium 1 Ash 2 Weight, Net
MILES FARM ENTERPRISES, OWENSBORO, KY	3	3	100%	27	27	100%	None

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MILK PRODUCTS, CHILTON, WI	1	1	100%	4	4	100%	None
MILK SPECIALTIES COMPANY, CARPENTERSVILLE, IL	1	1	100%	8	8	100%	None
MIRACLE CORP PRODUCTS, DAYTON, OH	1	0	0%	5	3	60%	1 Crude Protein 1 AH Fat
MONROE BROS FEED MILL, CAVE CITY, KY	10	9	90%	37	36	97%	1 Salt, Min
MOSAIC CROP NUTRITION LLC, RIVERVIEW, FL	7	7	100%	14	14	100%	None
MOUNTAIN COUNTRY FOODS, OKEENE, OK	1	1	100%	4	4	100%	None
MULLICAN FEED MILL, STANLEY, KY	6	5	83%	43	42	98%	1 Calcium, Min
MYERS FEED & FARM SUPPLY, CORINTH, KY	4	4	100%	22	22	100%	None
NATURA PET PRODUCTS, FREMONT, NE	6	6	100%	35	35	100%	None
NATURAL BALANCE PET FOODS INC, PACOIMA, CA	8	7	88%	79	78	99%	1 Sodium
NATURAL LIFE PET PRODUCTS, PITTSBURG, KS	6	5	83%	88	87	99%	1 AH Fat
NATURAL PET NUTRITION COMPANY, BOULDER, CO	3	3	100%	44	44	100%	None
NATURES RECIPE PET FOODS, PITTSBURGH, PA	5	3	60%	62	60	97%	1 AH Fat 1 Calcium, Min
NATURES VARIETY, LINCOLN, NE	1	1	100%	14	14	100%	None
NEOGEN CORP, LEXINGTON, KY	1	1	100%	5	5	100%	None
NESTLE PURINA PETCARE CO, ST LOUIS, MO	11	11	100%	93	93	100%	None
NEW ENERGY CORP, SOUTH BEND, IN	12	12	100%	30	30	100%	None
NEWMANS OWN ORGANICS, APTOS, CA	7	4	57%	90	87	97%	1 Crude Protein 2 Ash
NORTH AMERICAN NUTRITION CO, LEWISBURG, OH	9	7	78%	51	49	96%	1 Crude Protein 1 Sodium
NORTHERN PET PRODUCTS INC, CANADA L4K 1Y7	1	0	0%	5	4	80%	1 Ash
NUNN MILLING COMPANY INC, EVANSVILLE, IN	1	1	100%	3	3	100%	None
NUTRA BLEND CORP, NEOSHO, MO	1	1	100%	5	5	100%	None
NUTRI-VET LLC, BOISE, ID	1	1	100%	4	4	100%	None
NUTRO PRODUCTS INC, CITY OF INDUSTRY, CA	25	23	92%	201	199	99%	1 AH Fat 1 Magnesium
NYLABONE PRODUCTS, NEPTUNE, NJ	2	1	50%	9	7	78%	1 Crude Protein 1 AH Fat
ODOM'S LIVESTOCK SUPPLY, MAYFIELD, KY	12	9	75%	81	78	96%	1 Salt, Min 2 Copper
OLD WEST PET TREATS, OMAHA, NE	1	0	0%	4	3	75%	1 AH Fat
ORALX CORPORATION, OGDEN, UT	1	1	100%	4	4	100%	None
ORGANIC VALLEY/CROPP COOP, LAFARGE, WI	3	3	100%	11	11	100%	None
ORSCHELN FARM & HOME, MOBERLY, MO	8	7	88%	38	37	97%	1 Vitamin A
OVERBY FARM LLC, BLOOMFIELD, MI	1	1	100%	5	5	100%	None
OWENSBORO GRAIN CO INC, OWENSBORO, KY	72	72	100%	79	79	100%	None
PACIFIC COAST DISTRIBUTING, PHOENIX, AZ	23	23	100%	116	116	100%	None
PAMPERED PET TREATS, ALPINE, CA	2	2	100%	7	7	100%	None
PENN PAK INC, MADISON, GA	1	0	0%	5	3	60%	1 Crude Fiber, Max 1 Calcium, Min
PENNWOODS EQUINE PRODUCTS INC, CENTRE HALL, PA	4	2	50%	32	30	94%	2 Sodium
PENNYRILE ORGANICS, GUTHRIE, KY	1	1	100%	2	2	100%	None
PERDUE FARMS INC/MIKE WOOD, SALISBURY, MD	1	1	100%	8	8	100%	None
PERFORMANCE FEEDS, RED BOILING SPGS, TN	4	3	75%	13	12	92%	1 Crude Protein
PET GH INC, LAS VEGAS, NV	1	0	0%	2	1	50%	1 Crude Protein
PET NATURALS OF VERMONT, ESSEX JUNCTION, VT	1	0	0%	9	8	89%	1 Calcium, Min
PETCO ANIMAL SUPPLIES INC., SAN DIEGO, CA	1	1	100%	4	4	100%	None
PETGUARD INC, GREEN COVE SPGS, FL	5	3	60%	34	32	94%	1 Crude Protein 1 Ash
PETRAPPORIT INC, NORTH BERGEN, NJ	3	2	67%	9	8	89%	1 Crude Protein
PMI NUTRITION INC, BRENTWOOD, MO	6	6	100%	30	30	100%	None
PRECISE PET PRODUCTS, NACOGDOCHES, TX	1	1	100%	14	14	100%	None

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Name	Samples			Analyses			Violations
	Total	Passed	%	Total	Passed	%	
PREMIER FEED COMPANY, SABINA, OH	4	2	50%	25	20	80%	1 Crude Protein 1 Calcium, Min 1 Magnesium 1 Zinc 1 Vitamin A
PREMIUM NUTRITIONAL PRODUCTS, MISSION, KS	3	3	100%	10	10	100%	None
PRETTY BIRD INTL INC, STACY, MN	3	1	33%	18	16	89%	1 Crude Protein 1 Zinc
PREWITTS FEED & FARM SUPPLY, WILLIAMSBURG, KY	2	1	50%	7	5	71%	1 Calcium, Min 1 Phosphorus, Min
PRODUCER FEEDS, LOUISVILLE, KY	33	33	100%	178	178	100%	None
PROFESSIONAL PET CO, META, MO	5	5	100%	40	40	100%	None
PROGRESSIVE NUTRITION, HARLAN, IA	3	3	100%	25	25	100%	None
PROGRESSIVE NUTRITION, LEWISBURG, OH	5	2	40%	39	35	90%	1 Crude Protein 1 Copper 2 Zinc
PRO-PET LLC, ST MARYS, OH	8	6	75%	68	66	97%	2 AH Fat
PURINA MILLS INC, ST. LOUIS, MO	160	143	89%	884	865	98%	4 Crude Protein 3 Crude Fat, Min 1 Calcium, Min 1 Salt, Min 2 Cobalt 1 Copper 1 Manganese 2 Potassium 3 Vitamin A 1 Chlortetracycline
RAMARD INC, OCALA, FL	1	1	100%	9	9	100%	None
RAY M YODER FEED MILL, MARION, KY	21	16	76%	122	117	96%	2 Crude Protein 2 Salt, Min 1 Copper
RED A FEEDS, MANKATO, MN	17	15	88%	97	94	97%	1 Zinc 1 Vitamin A 1 Chlortetracycline
RED RIVER COMMODITIES, FARGO, ND	1	0	0%	4	3	75%	1 Crude Fiber, Max
REDBARN PET PRODUCTS INC, LONG BEACH, CA	1	1	100%	5	5	100%	None
RICELAND FOODS, STUTTGART, AR	1	1	100%	2	2	100%	None
RICHDEL INC, CARSON CITY, NV	1	0	0%	7	5	71%	1 Crude Protein 1 Crude Fiber, Max
RIP'S FARM CENTER, TOLLESBORO, KY	21	16	76%	120	107	89%	1 Crude Protein 5 Calcium, Min 4 Phosphorus, Min 2 Copper 1 Decoquinat
RIVER VALLEY ANIMAL FOODS, ROBARDS, KY	6	6	100%	23	23	100%	None
ROLF C. HAGEN (USA) CORP, MANSFIELD, MA	3	3	100%	11	11	100%	None
ROSE ACRE FARMS INC, SEYMOUR, IN	6	6	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	10	10	100%	101	101	100%	None
RUCKELS FARM SUPPLY, WAYNESBURG, KY	15	11	73%	97	90	93%	2 Crude Protein 1 Lysine 1 Calcium, Min 2 Salt, Min 1 Zinc
RUDY VENTURES, LOUISVILLE, KY	1	0	0%	3	2	67%	1 Crude Protein
RUDYS FARM CENTER, KEVIL, KY	9	9	100%	55	55	100%	None
RURAL KING, MATTOON, IL	2	2	100%	13	13	100%	None
RUSSELL COUNTY FEED MILL, RUSSELL SPGS, KY	4	3	75%	20	19	95%	1 Crude Protein
S & M NUTEC LLC, KANSAS CITY, MO	2	1	50%	7	6	86%	1 AH Fat

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	Total	Passed		Total	Passed		
S S BRECK, HARDINSBURG, KY	4	4	100%	15	15	100%	None
S S CNTRL KY SVC HARRDSBRG, HARRODSBURG, KY	2	2	100%	7	7	100%	None
S S COOP INC - FEED DIV, WINCHESTER, KY	2	2	100%	11	11	100%	None
S S COOP INC, RICHMOND, VA	186	168	90%	1,165	1,146	98%	1 Crude Protein 2 Crude Fiber, Max 1 Copper 1 Magnesium 13 Vitamin A 1 Chlortetracycline
S S CYNTHIANA, CYNTHIANA, KY	3	2	67%	6	5	83%	1 Crude Protein
S S FLEMINGSBURG, FLEMINGSBURG, KY	6	5	83%	30	29	97%	1 Salt, Min
S S GEORGETOWN, GEORGETOWN, KY	2	2	100%	4	4	100%	None
S S LEITCHFIELD, LEITCHFIELD, KY	11	10	91%	46	45	98%	1 Salt, Min
S S LONDON, LONDON, KY	3	2	67%	17	16	94%	1 Salt, Min
S S MAYSVILLE, MAYSVILLE, KY	1	1	100%	5	5	100%	None
S S OWENSBORO, OWENSBORO, KY	2	2	100%	11	11	100%	None
S S OWENTON, OWENTON, KY	3	3	100%	3	3	100%	None
S S OWINGSVILLE SVC, OWINGSVILLE, KY	3	3	100%	15	15	100%	None
SAN FRANCISCO BAY BRAND INC, NEWARK, CA	1	1	100%	2	2	100%	None
SAVE-A-LOT FOOD STORES INC, BOISE, ID	7	6	86%	60	59	98%	1 AH Fat
SHELL & KAMPETER, ST THOMAS, MO	5	4	80%	17	16	94%	1 Ash
SCHOCHOH MILLS INC, ADAIRVILLE, KY	2	2	100%	21	21	100%	None
SCIENCE HILL MILLING CO, SCIENCE HILL, KY	6	4	67%	30	28	93%	1 Crude Fat, Min 1 Crude Fiber, Max
SCOTT PET PRODUCTS, ROCKVILLE, IN	3	1	33%	12	10	83%	2 Crude Fat, Min
SEACHEM LABORATORIES INC, MADISON, GA	1	1	100%	2	2	100%	None
SEEDS INC, MEMPHIS, TN	2	2	100%	28	28	100%	None
SEITER FARMS, CALIFORNIA, KY	1	1	100%	7	7	100%	None
SEMINOLE FEEDS, OCALA, FL	3	1	33%	39	35	90%	1 Calcium, Min 1 Phosphorus, Min 1 Potassium 1 Ash
SERGEANTS PET CARE PRODUCTS, OMAHA, NE	2	2	100%	5	5	100%	None
SEVENTY FEEDS LLC, EUBANK, KY	6	5	83%	22	21	95%	1 Crude Fat, Min
SHEBANGS NATURAL SELECTION INC, ROCKPORT, IN	3	1	33%	12	9	75%	1 Crude Protein 2 AH Fat
SIEMER ENTERPRISES INC, TEUTOPOLIS, IL	1	0	0%	3	1	33%	1 Crude Protein 1 Crude Fiber, Max
SIEMER MILLING COMPANY, HOPKINSVILLE, KY	4	4	100%	14	14	100%	None
SIEMER MILLING, HOPKINSVILLE, KY	1	1	100%	2	2	100%	None
SIMMONS PET FOOD INC, SILOAM SPRINGS, AR	8	6	75%	71	69	97%	2 AH Fat
SMITH SOUTH SIDE FEED & GRAIN, BOWLING GREEN, KY	3	3	100%	16	16	100%	None
SOJOURNER FARMS, MINNEAPOLIS, MN	2	1	50%	7	6	86%	1 AH Fat
SOLID GOLD HEALTH PRODUCTS, EL CAJON, CA	3	2	67%	21	20	95%	1 Zinc
SOURCE INC, N BRANFORD, CT	1	1	100%	3	3	100%	None
SOUTH FRESH FEEDS, DEMOPOLIS, AL	2	1	50%	7	6	86%	1 Crude Protein
SOUTHEASTERN WHOLESALERS INC, BARBOURVILLE, KY	2	1	50%	8	7	88%	1 Crude Protein
SOUTHERN STATES COOP INC, RICHMOND, VA	1	1	100%	10	10	100%	None
SOY INC/DBA HEALTHY COAT, GIBSON, IA	1	1	100%	1	1	100%	None
SPECIALTY FEEDS INC, MEMPHIS, TN	1	0	0%	13	12	92%	1 Potassium
STARMASER FEEDS, THORNVILLE, OH	2	0	0%	17	14	82%	1 Crude Protein 1 Salt, Min 1 Zinc
STEWARTS FARM SUPPLY, BROOKSVILLE, KY	7	6	86%	36	34	94%	1 Crude Fat, Min 1 Calcium, Min
STOCKADE BRANDS INC, PITTSBURG, KS	2	1	50%	13	12	92%	1 Vitamin A

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STOKES NATURE CP, FARGO, ND	1	0	0%	3	2	67%	1 Crude Fiber, Max
SUGAR CREEK PET PRODUCTS LLC, META, MO	2	2	100%	4	4	100%	None
SUMMERSVILLE FEED MILL, SUMMERSVILLE, KY	7	4	57%	27	23	85%	1 Crude Fiber, Max 3 Salt, Min
SUNSHINE MILLS INC, RED BAY, AL	9	6	67%	92	89	97%	1 AH Fat 1 Magnesium 1 Weight, Net
SUPREME MILLS, GLASGOW, KY	9	9	100%	82	82	100%	None
SUPREME PET PRODUCTS, FERNDALE, WA	1	1	100%	4	4	100%	None
SWEETLIX LLC/HUBBARD FEEDS, MANKATO, MN	8	5	63%	63	56	89%	1 Copper 1 Manganese 1 Potassium 1 Zinc 3 Vitamin A
T & H FEED SERVICE, LEBANON, KY	1	1	100%	5	5	100%	None
TAPPS FEED & FARM SUPPLY, SHELBYVILLE, KY	4	3	75%	22	21	95%	1 Copper
TARGET CORPORATION, MINNEAPOLIS, MN	7	6	86%	64	63	98%	1 AH Fat
TARGETED PET TREATS LLC, MEADVILLE, PA	1	1	100%	2	2	100%	None
TASTE OF THE WILD, META, MO	2	2	100%	28	28	100%	None
TATE&LYLE INGREDIENTS AMERICAS, DECATUR, IL	4	4	100%	8	8	100%	None
TEDS FEED STORE, MIDDLESBORO, KY	1	1	100%	5	5	100%	None
TENNESSEE FARMERS COOPERATIVE, LAVERGNE, TN	3	3	100%	34	34	100%	None
TETRA HOLDING (US)/TETRA WERKE, BLACKSBURG, VA	3	3	100%	5	5	100%	None
THE BISCUIT FACTORY, PICO RIVERA, CA	1	1	100%	4	4	100%	None
THE GOODLIFE RECIPE PETCARE CO, BRENTWOOD, TN	4	3	75%	34	33	97%	1 Crude Protein
THE MEOW MIX COMPANY, SEACUCUS, NJ	7	6	86%	48	47	98%	1 AH Fat
THE NATURAL VET LLC, UNICIO, TN	1	1	100%	5	5	100%	None
THREE DOG BAKERY, KANSAS CITY, MO	3	1	33%	22	20	91%	2 AH Fat
TIMBER WOLF ORGANIC INC*, WINDEMERE, FL	2	1	50%	22	20	91%	1 Calcium, Min 1 Vitamin A
TIZWHIZ SALES LTD, SOUTH CHARLESTON, OH	4	3	75%	41	40	98%	1 Crude Fat, Min
TOPCO ASSOC/BART BECHERER, SKOKIE, IL	1	1	100%	4	4	100%	None
TRACTOR SUPPLY COMPANY, BRENTWOOD, TN	23	21	91%	140	138	99%	2 Crude Protein
T-REX PRODUCTS, CHULA VISTA, CA	1	1	100%	4	4	100%	None
TRI STATE PACKAGING CO, VAN WERT, OH	3	2	67%	8	7	88%	1 Crude Fat, Min
TRI STATE PACKAGING CO, VAN WERT, OH	1	1	100%	3	3	100%	None
TRI-COUNTY FEEDS, LIBERTY, KY	5	4	80%	20	19	95%	1 Calcium, Min
TRI-COUNTY FERTILIZER, RICHMOND, KY	8	7	88%	30	29	97%	1 Acid Detergent Fiber
TRIMBLE CO FARM SUPPLY, MILTON, KY	1	0	0%	4	3	75%	1 Calcium, Min
TRIPLE CROWN NUTRITION INC, WAYZATA, MN	5	1	20%	53	49	92%	2 Iron 2 Vitamin A
TUGGLE FEEDS, HARRODSBURG, KY	3	3	100%	4	4	100%	None
TUTTLE'S HORSE CARE DIV, CODY, WY	1	0	0%	13	11	85%	1 Salt, Min 1 Manganese
TWO RIVERS INC, DRAKESBORO, KY	2	0	0%	15	12	80%	1 Crude Protein 1 Copper 1 Zinc
TYSON FRESH MEATS, DAKOTA CITY, NE	3	3	100%	13	13	100%	None
U S GRAIN CO, LUTHERVILLE, MD	1	1	100%	16	16	100%	None
UNITED SALT CORP/KATHY DUBIEL, HOUSTON, TX	1	0	0%	7	6	86%	1 Calcium, Min
VALLEY FARM CENTER INC, MONTICELLO, KY	2	0	0%	11	9	82%	2 Crude Protein
VALLEY VIEW FEEDS/BRUBAKER GRN, FARMERSVILLE, OH	1	1	100%	1	1	100%	None
VAPCO INC, LAWRENCE, MA	1	0	0%	8	7	88%	1 Calcium, Min
VARIETY PET FOODS, ENGLEWOOD, CO	2	2	100%	28	28	100%	None
VENTURE MILLING, SEAFORD, DE	1	1	100%	3	3	100%	None

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VETERINARY PRESCRIPTION FEEDS, HICKORY, KY	1	1	100%	3	3	100%	None
VITA FLEX NUTRITION CO INC, COUNCIL BLUFF, IA	1	0	0%	11	9	82%	1 Manganese 1 Zinc
VITAKRAFT PET PRODUCTS CO INC, BOUND BROOK, NJ	3	0	0%	16	13	81%	1 Crude Fat, Min 1 AH Fat 1 Crude Fiber, Max
VITAKRAFT SUN SEED CO INC, BOWLING GREEN, OH	3	2	67%	22	21	95%	1 Calcium, Min
W C MILLING LLC, SEAMAN, OH	1	0	0%	5	2	40%	1 Crude Fiber, Max 1 Calcium, Min 1 Phosphorus, Min
WALMART STORES INC, BENTONVILLE, AR	10	10	100%	105	105	100%	None
WATSON FEED, PRINCETON, KY	5	4	80%	19	18	95%	1 Copper
WELLNESS/OLD MOTHER HUBBARD, TEWKSBURY, MA	14	12	86%	136	134	99%	1 Crude Fat, Min 1 AH Fat
WELLS PET FOODS CORP, MONMOUTH, IL	2	2	100%	7	7	100%	None
WESTWAY TRADING/J PRIMEAUX, NEW ORLEANS, LA	5	4	80%	12	11	92%	1 Phosphorus, Min
WHOLE FOODS MARKET, AUSTIN, TX	7	6	86%	69	68	99%	1 AH Fat
WILDGAME INNOVATIONS LLC, BROUSSARD, LA	4	2	50%	29	24	83%	1 Calcium, Min 1 Phosphorus, Min 2 Copper 1 Vitamin A
WILLARD MILLING, INC, WILLARD, KY	19	12	63%	207	196	95%	2 AH Fat 4 Potassium 5 Zinc
WILSON FARM SUPPLY INC, NANCY, KY	3	3	100%	4	4	100%	None
WINCHESTER FEED & SUPPLY INC, WINCHESTER, KY	6	4	67%	41	38	93%	1 Crude Fiber, Max 1 Calcium, Min 1 Copper
WINSTON COMPANY, TULSA, OK	1	1	100%	5	5	100%	None
WITTE FEEDS INC, DALE, IN	5	5	100%	25	25	100%	None
WOODFORD FEED CO, VERSAILLES, KY	11	8	73%	54	51	94%	1 Phosphorus, Min 1 Zinc 1 Vitamin A
WOODYS PERFORMANCE HORSE FEED, DICKINSON, ND	1	1	100%	2	2	100%	None
WRIGLEY 7-711 INC, WRIGLEY, KY	4	4	100%	19	19	100%	None
WYSONG CORP, MIDLAND, MI	2	1	50%	28	27	96%	1 Crude Protein
YODERS FEED & SUPPLY, RUSSELLVILLE, KY	3	3	100%	20	20	100%	None
YOTTA PET PRODUCTS INC, PARIS, IL	1	1	100%	2	2	100%	None
ZUKE'S, DURANGO, CO	2	2	100%	4	4	100%	None

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 (AAFCO) AVs as a basis for minimum and maximum guarantees. The AVs allow for the inherent variability in laboratory analyses. AVs 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 AVs 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%	Decoquinat	- 20%	+ 20%
*NPN Equiv. Protein (urea)	- 50%	+ 20%	Dichlorvos	- 20%	+ 30%
*Lysine	- 20%	+ 200%	Hygromycin B	- 25%	+ 20%
*Crude Fat	- 20%	+ 5 units	Lincomycin	- 25%	+ 35%
*Crude Fiber	- 60%	+ 15%	Melegestrol Acetate	- 30%	+ 30%
*Ash		+ 5%	Methoprene	- 30%	+ 30%
*Calcium	- 15%	+ 2 units	Monensin	- 30%	+ 30%
*Phosphorus	- 15%	+ 2 units	Oxytetracycline	- 30%	+ 30%
*Salt	- 40%	+ 40%	Penicillin	- 35%	+ 35%
Cobalt	- 40%	+ 200%	Pyrantel Tartrate	- 25%	+ 25%
Copper	- 40%	+ 200%	Rabon	- 25%	+ 30%
Iodine	- 40%	+ 200%	Roxarsone	- 25%	+ 25%
Iron	- 40%	+ 200%	Sulfamethazine	- 20%	+ 20%
Magnesium	- 40%	+ 200%	Sulfaquinoxaline	- 25%	+ 25%
Manganese	- 40%	+ 200%	Sulfathiazole	- 20%	+ 20%
*Potassium	- 30%	+ 200%	Thiabendazole	- 30%	+ 30%
Selenium	- 40%	+ 140%	Tylosin	- 30%	+ 30%
Sodium	- 30%	+ 130%	Virginamycin	- 40%	+ 40%
Zinc	- 40%	+ 200%	Zoalene	- 25%	+ 25%
Amprolium	- 40%	+ 20%	Moisture		+ 12%
Arsanilic Acid	- 20%	+ 20%	Sodium Bicarbonate	- 30%	+ 30%
Bacitracin	- 40%	+ 40%	Invert Sugar	- 10%	
Carbadox	- 20%	+ 20%	Vitamin A	- 30%	+ 200%
Chlortetracycline	- 30%	+ 30%	Net Weight (small package) - 5%		
Coumaphos	- 20%	+ 20%			

*AVs added or modified to improve consistency with the AAFCO AVs and regulatory enforcement.

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

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