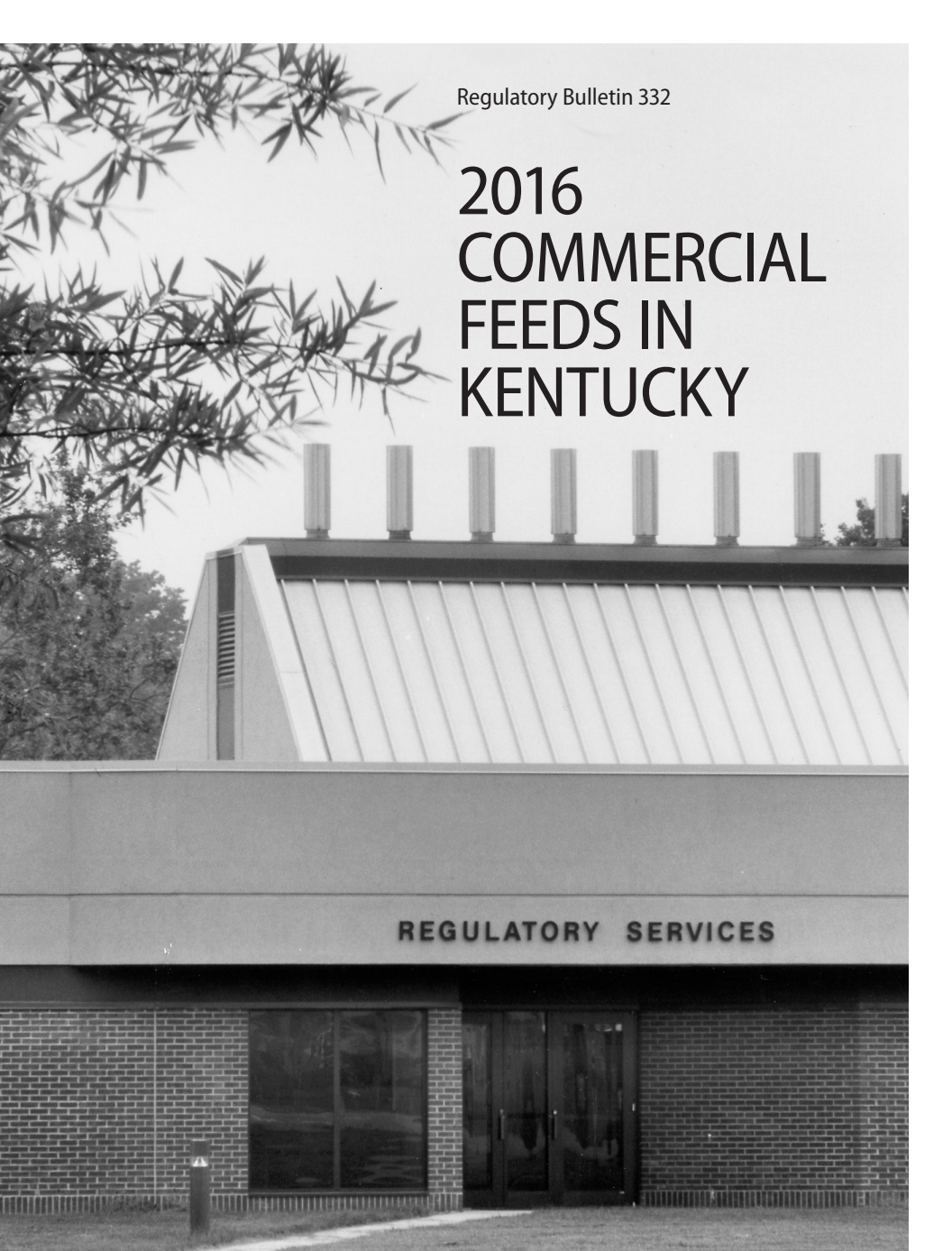


Regulatory Bulletin 335

2017 COMMERCIAL FEEDS IN KENTUCKY



REGULATORY SERVICES

 University of
Kentucky

*College of Agriculture,
Food and Environment*

Agricultural Experiment Station

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Introduction

Kentucky's commercial feed law (KRS 250.491-250.631) dates from 1906 and was revised in 1996. This feed law provides protection for the state's livestock, poultry, and pet owners by regulating all feed materials offered for sale or for mixing into a feed. Products falling under regulation include all types of pet foods, livestock minerals, complete animal and poultry feeds, protein or mineral blocks, supplements, feed ingredients, specialty materials such as drug premixes, vitamin and mineral supplements, liquid feeds, pet supplements, pet treats, and other specialized pet foods. The law does provide for exemptions for whole and unprocessed grain, raw meat, hay, straw, stover, silage, cobs, husks, and hulls when not processed.

Revisions in laws and regulations have added additional requirements over the years. These revisions are primarily in response to more varied livestock feeding practices, changes in feed manufacturing technology, and an increased number of feed ingredients. These revisions ensure safe and effective use of drugs, and authority to inspect mills for compliance with good manufacturing practices. Any drug and feed additive use must conform to Food and Drug Administration (FDA) regulations. A major aspect is to prevent unsafe residues in human food that may result from misused or contaminated feed. Several provisions are aimed at keeping poisonous and deleterious substances from being distributed in feeds.

Information in this report is intended to inform the feed purchaser, provide a basis for fair and equitable competition, and assist in assuring the safety of animal and human food.

Feed Mill Inspections

Maintaining high quality and safe feeds for animals requires a comprehensive inspection program. This is particu-

larly important when mills manufacture medicated feed. Mills may be required to obtain a license from the FDA to manufacture medicated feed, depending on the type and concentration of drug. There are eight feed mills in Kentucky with a feed mill license (FML) from the FDA. All feed mills must comply with good manufacturing practices, which are assessed as part of a comprehensive inspection program. The purpose of these inspections is to ensure several safe feed practices are followed: (1) approved drug levels are used, (2) proper mixing procedures are followed, (3) feed ingredients are monitored, (4) good recordkeeping is followed, (5) good housekeeping protocols are followed, and (6) a recall plan is in place.

The Division participates in an inspection program in partnership with the FDA that conducts inspections of feed dealers and manufacturers each year. These inspections assure that mills are following FDA guidelines and are in compliance with rules prohibiting the use of ruminant proteins in feeds intended for other ruminant animals. These rules are in place to prevent the establishment and amplification of Bovine Spongiform Encephalopathy (BSE). Feed mills receiving prohibited animal protein materials must follow adequate procedures to prevent any chance of those materials getting into feeds for ruminants. In the past year, we changed our inspection program in several ways to include more joint inspections, a greater focus on manufacturers, and the addition of new inspections to evaluate progress of firms in meeting new Food Safety Modernization Act (FSMA) requirements. Included in 50 inspections conducted by our inspectors in 2017 were evaluations of good manufacturing practices at 27 Kentucky mills manufacturing medicated feed. We also conducted eight inspections at manufacturers to determine compliance with FSMA regulations regarding manufacture of ani-

mal feed. At the beginning of 2018, there were 187 feed manufacturing facilities located in Kentucky that serve the animal feed and pet food industries. Additionally, more than 280 feed distributors located in the state handle livestock feed.

Food Safety

The Food Safety Modernization Act (FSMA) was enacted in 2011 and is now starting to have a major effect on feed manufacturers. The goal of FSMA is to ensure the safety of the U.S. food supply by shifting the focus of federal regulation from responding to contamination to preventing it. All facilities that manufacture or hold animal feed will be eligible for a good manufacturing practices (GMP) inspection in the fall of 2018. Implementation dates for preventative controls are one year behind GMP eligibility. While we will continue to monitor the manufacture of medicated animal feed, we expect our inspection program to evolve to be more in line with FSMA philosophy. Our focus on educating before regulating will remain in place.

While preventing feed-related problems is the best approach, there will continue to be occurrences with animal

or pet food that need attention, including abnormal feed color or odor, presence of a foreign material, animals refusing the feed, and sickness or death of animals. An investigation is warranted when any of these occur. Regulatory Services works in conjunction with the University of Kentucky Veterinary Diagnostic Laboratory, extension agents, local veterinarians, feed dealers, and feed manufacturers and take samples of feed when these incidences occur. Our continued emphasis on frequent inspections, regular sampling, laboratory analysis, label reviews, and inspections support efforts to maintain food safety and minimize any adverse impact.

Since September 2016, Kentucky has been one of a group of now 23 states fully participating in the Animal Feed Regulatory Program Standards (AFRPS) initiative, a joint effort by the American Association of Feed Control Officials (AAFCO) and the FDA to help build a more robust integrated food-safety system by concentrating on regulation of animal feed production. This cooperative agreement will bring \$3,000,000 into the division and the university over a five-year period.

Table 1. Number of feed ingredient samples in 2017.

Type	Official Samples with Guarantees	Unofficial, Proficiency, Service Samples	Total
Alfalfa products	0	0	0
Animal products	15	4	19
Brewery products	0	10	10
Corn products	58	81	139
Cottonseed products	5	0	5
Distillers products	50	11	61
Soybean products	98	2	100
Wheat products	4	7	11
Other grains	10	25	35
Minerals	10	3	13
Vitamins	3	2	5
Urea & other NPN	0	0	0
Other	27	4	31
AAFCO samples	0	5	5
Total	280	154	434

Feed Registration and Labeling

Manufacturers are required to register all feeds before distribution to ensure that correct label information is provided to the purchaser. Each year, we conduct more than 7,000 label reviews for products for animals or pets. Guaranteed analysis, ingredient listings, and feeding directions for the intended animals or pets are scrutinized. Particular attention

is given to medicated feed labels with regards to approved drug usage and dosage, statement of drug purpose, and any required warning, caution, or special feeding instructions. Misleading and unsubstantiated information or claims are prohibited. More than 20,000 different commercial feeds and pet foods are registered for distribution by over 1,330 companies.

Table 2. Number of commercial feed samples in 2017.

Formula Feeds	Official Samples with Guarantees	Unofficial, Proficiency, Service Samples	Total
Poultry feed	240	9	249
Beef feed	440	67	507
Dairy feed	56	12	68
Swine feed	138	10	148
Sheep feed	23	5	28
Goat feed	49	1	50
Equine feed	212	18	230
Rabbit feed	31	2	33
Fish feed	17	1	18
Deer products	42	3	45
Milk replacer	6	0	6
Mineral/vitamin/other	181	11	192
Wild-bird food	22	2	24
Total	1,457	141	1,598

Table 3. Number of pet and specialty feed samples in 2017.

Type	Official Samples with Guarantees	Unofficial, Proficiency, Service Samples	Total
Dog food	472	20	492
Cat food	311	3	314
Dog & cat treats	456	5	461
Specialty pet & pet other	118	0	118
Total	1,357	28	1,385

Table 4. Survey of 2017 corn crop (59 total samples).

	Units	# Tests	LLQ¹	# Tests > LLQ	Mean²
Crude protein	%	58			6.91
Aflatoxin	ppb	58	< 5 ppb	1	
Fumonisin	ppm	49	< 1 ppm	31	2.60
Vomitoxin	ppm	28	< 0.5 ppm	15	1.81
Zearalenone	ppm	23	< 0.02 ppm	18	0.14
Moisture	%	59			14.60

¹Lower limit of quantification.

²Mean includes only samples with analyzed values > LLQ.

Table 5. Number of feed analyses reported in 2017.

		Official Samples	Unofficial, Proficiency, Service Samples	Total
Proximate	Crude protein	2790	393	3183
	NPN equiv. protein	83	13	96
	Crude fat	782	185	967
	AH fat	1190	91	1281
	Crude fiber	686	182	868
	Acid detergent fiber	1	15	16
	Ash	96	50	146
	Moisture	853	218	1071
Minerals	Aluminum	0	5	5
	Arsenic	0	1	1
	Cadmium	0	1	1
	Calcium	2171	276	2447
	Ca:P ratio	404	26	430
	Cobalt	1782	212	1994
	Copper	2171	276	2447
	Chromium	0	1	1
	Iron	2171	276	2447
	Lead	0	1	1
	Magnesium	2171	276	2447
	Manganese	2171	276	2447
	Molybdenum	2	1	3
	Phosphorus	2171	276	2447
	Potassium	2171	276	2447
	Salt, min	962	81	1043
	Selenium	629	76	705
Sodium	2171	276	2447	
Sulfur	24	23	47	
Zinc	2171	276	2447	
Vitamins	Vitamin A	269	21	290
Drugs	Amprolium	17	1	18
	Bacitracin	11	3	14
	Carbadox	3	0	3
	Chlortetracycline	29	6	35
	Decoquinatate	24	4	28
	Lasalocid	146	20	166
	Monensin, sodium	199	18	217
	Oxytetracycline	0	1	1
	Tylosin	0	0	0
Mycotoxins	Aflatoxin	8	85	93
	Fumonisin	8	73	81
	Ochratoxin	0	6	6
	T-2-toxin	0	5	5
	Vomitoxin	1	51	52
	Zearalenone	1	38	39
Other	Microscopy	1	16	17
Totals		30,540	4,407	34,947

A feed label is the fundamental communication with the consumer; it provides the purpose of the feed, directions for use, nutrient information, ingredient content, and special comments or warnings. Providing labeling assistance and guidance to product registrants and manufacturers has been beneficial in attaining high quality feeds and promoting food safety. A full-time registration specialist reviews product labels for compliance with applicable laws and regulations. The field inspectors assist manufacturers with labeling, resulting in more uniform and informative labels. Additionally, spreadsheets are available to assist in establishing label guarantees and for estimating nutritional suitability of custom mixed feeds and even pet treats. These services strengthen an excellent working relationship with the feed industry in Kentucky.

Financial Support

The feed regulatory program is supported by inspection fees of the commercial feeds sold in Kentucky, registration fees for small package items, and General Assembly appropriated funds. An inspec-

tion fee of 35 cents per ton is paid on commercial feeds in packages of larger than 10 pounds. Distiller’s wet grains, other distillers products of more than 75 percent moisture, whey and brewers wet grains distributed without further processing pay a fee of 5 cents per ton. Products sold exclusively in packages of 10 pounds or less pay an annual registration fee of \$50 per product. In 2017, the feed program collected a total of \$1,337,999 in inspection fees, registration fees and late payment penalties.

Changes in Antibiotic Use in Animal Feed and New Veterinary Feed Directive Rules

The new Veterinary Feed Directive rules went into effect on January 1, 2017. The purpose of the FDA rule change was to promote the judicious use of antibiotic use in animal agriculture. An increase in veterinary oversight for therapeutic use of antimicrobial drugs through the existing Veterinary Feed Directive (VFD) system was a major component of the plan. While we lost the ability to use the medically important drugs to enhance growth or

Table 6. Reported tons of ingredients distributed.

Ingredient	Exempt	Non-exempt
	2017	2017
Alfalfa products	1,847	4,147
Animal products	4,354	27,323
Brewery products	65	1,017
Corn products	157,371	111,192
Cottonseed products	625	3,371
Distillers products	51,045	235,511
Soybean products	176,887	552,861
Wheat products	74,053	8,857
Other grains/oilseeds	8,542	34,309
Minerals	22,871	62,214
Vitamins	25	3,169
Urea & other NPN	6,584	1,178
Other	33,978	118,770
Distillers wet grains	0	183,999
Brewers wet grains	0	10,339
Liquid whey	0	0
Total	538,247	1,358,257

Table 7. Reported tons of commercial feeds distributed.

Type	2017
Poultry feed	104,385
Beef feed	344,536
Dairy feed	164,906
Swine feed	34,490
Sheep feed	3,734
Goat feed	4,281
Horse feed	123,187
Rabbit feed	4,605
Fish feed	2,238
Deer products	3,015
Milk replacer	2,328
Mineral/vitamin/other	85,971
Wild-bird food	17,608
Pet food	209,151
Total	1,104,433

Table 8. Analytical variations for commercial feed samples.

	Lower AV	Upper AV		Lower AV	Upper AV
Crude protein	-3%	50%	Zinc	-40%	200%
NPN equiv. protein	-50%	20%	Vitamin A	-30%	200%
Crude fat	-20%	+5 units	Ash		5%
Acid hydrolysis fat	-20%	+5 units	Moisture		12%
Crude fiber	-60%	15%	Amprolium	-40%	20%
Acid detergent fiber	-60%	15%	Apramycin	-20%	20%
Calcium	-15%	+2 units	Bacitracin	-40%	40%
Phosphorus	-15%	+2 units	Carbadox	-20%	20%
Salt	-40%	40%	Chlortetracycline	-30%	30%
Sodium	-30%	130%	Decoquinatate	-20%	20%
Magnesium	-40%	200%	Lasalocid	-25%	25%
Potassium	-30%	200%	Lincomycin	-25%	35%
Sulfur	-30%	30%	Monensin, sodium	-30%	30%
Cobalt	-40%	200%	Oxytetracycline	-30%	30%
Copper	-40%	200%	Penicillin	-35%	35%
Iron	-40%	200%	Sulfamethazine	-20%	20%
Manganese	-40%	200%	Tylosin	-30%	30%
Molybdenum	-40%	100%	Virginiamycin	-40%	40%
Selenium	-40%	40%			

improve feed efficiency, producers may still use drugs for prevention and treatment of disease with veterinary oversight. Challenges remain, but the industry and producers have adapted to the new reality.

Changes in Sampling and Tonnage Reporting

Since the division implemented new software systems in 2015, we have tracked and reported feed samples and feed tonnage in a different format than in previous years. For tables 1-4, we are reporting both official samples with label guarantees and other samples. Official samples are those collected by our inspectors under guidelines specified by our sampling protocols. Other samples reported include unofficial samples analyzed as part of a feed-related investigation, lab proficiency samples, and other service samples.

Feed Sampling

Tables 1, 2, and 3 list the number of samples analyzed in 2017 obtained by field inspectors of feed ingredients, commercial feeds, and pet/specialty foods. Numbers and types of samples collected by our inspectors were very similar to

2016. Pet and specialty foods made up around 43 percent of all official samples collected. Pet treat sampling continues to increase to match the increase in distribution of these products in Kentucky. Beef, poultry, and equine feeds constitute more than 60 percent of our total livestock samples.

In addition to the official samples reported, our lab also analyzed an additional 323 other samples. The samples include ingredients and products submitted to our lab by county Extension agents, the UK Veterinary Diagnostic Laboratory, livestock producers, and consumers. Over 100 service samples were received by our lab in 2017.

Corn Quality Survey

Each fall, our inspectors collect corn samples from elevators and feed mills as new crop corn makes its way into the market. Samples are tested for crude protein, moisture, and mycotoxins. As is the case in most years, no evidence was found of mycotoxin problems in this year's crop (Table 4). Crude protein averaged 6.9 percent on the 59 samples in this year's survey.

Feed Analysis

Analysis of nutrients and other components in feed samples are provided by our feed laboratory. The laboratory data is used to evaluate suitability of product labeling, feed quality, and absence of any contaminants or deleterious substances. Table 5 reports the number of feed analyses conducted on samples during 2017. Our sample report table by manufacturer or guarantor includes only official samples with guaranteed tests. However, results of testing for non-guaranteed analytes are also listed in sample reports to provide more information to the manufacturer/guarantor. In addition, our laboratory routinely analyzes equine and all stock feeds produced at medicated feed mills for monensin and lasalocid. In 2017, more than 110 of these products were tested and none were found to contain levels of monensin or lasalocid that would be toxic to equine species.

Tonnage Distribution

Tables 6 and 7 use data collected from the Kentucky Feed Tonnage Reports submitted by firms distributing feed products in the state. Table 6 reports ingredients and Table 7 reports commercial feeds. The term “exempt” represents ingredients sold to other feed manufacturers in Kentucky who pay the inspection fees. “Non-exempt” represents ingredients in which the reporting firm pays the inspection fee.

Analytical Variations

Regulatory officials use analytical variations (AVs) as a guide for issuing any type of violation of the label guarantee. The total variation surrounding an analytical analysis of a feed product and comparing it to a label consists of (1) variation associated with the formulation and mixing in

producing a feed, (2) variation of particle sizes in feed ingredients, (3) potential ingredient settling during transport, (4) variation associated with sampling, (5) variation associated with mixing and grinding samples, and (6) variation during analysis in the laboratory. Most variations associated with sampling, mixing, grinding, and analysis in the laboratory are known as a result of many years of study to arrive at Official Methods. The AVs listed in Table 8 allow for the inherent variability in sources that follow the Official Methods, with more weight given to the areas of analytical variation. The laboratory reported value of an analyte in a sample is reviewed with respect to the guarantee using the AVs below as a guide.

Note that the AVs listed for minerals do not apply to cat and dog complete foods formulated to meet Association of American Feed Control Officials (AAFCO) requirements. These complete pet foods must meet AAFCO pet food profiles. All profiles have minimum mineral requirements and some have maximums as well. In this case, the tolerances are national standards set by AAFCO.

Sample Violation Report

The sample violation report for 2017 (Table 9) includes 3094 official samples from 550 different manufacturers or guarantors. Overall, 80 percent of samples passed (no violations on any analytes) while 96% of all analytes met their label guarantees. When label violations are found, manufacturers or guarantors are requested to investigate and report their findings to the feed director. When violations have the potential to harm animals or consumers, our office has the authority to withdraw the product from distribution until the problem is corrected.

Table 9. Report of official feed samples analyzed—2017.

Business Name	Samples			Tests			Sample Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
21ST CENTURY PET NUTRITION, TEMPE, AZ	1	0	0%	2	1	50%	AH Fat (1)
4M DISTRIBUTING, FALL BRANCH, TN	1	1	100%	10	10	100%	
ABENGOA BIOENERGY OF INDIANA, MT VERNON, IN	2	2	100%	12	12	100%	
ABO GEAR LLC, WICHITA, KS	1	1	100%	2	2	100%	
ACADIAN SEAPLANTS LIMITED, DARTMOUTH, NS	1	1	100%	3	3	100%	
ADAIRVILLE FEED MILL, ADAIRVILLE, KY	5	5	100%	22	22	100%	
ADAIRVILLE FEED MILL #2, ADAIRVILLE, KY	18	17	94%	91	90	99%	Fat (1)
ADM ALLIANCE NUTRITION INC, QUINCY, IL	11	8	73%	104	101	97%	Se (1) Vit A (1) Decox (1)
ADM CORN PROCESSING/J ARCHER, DECATUR, IL	4	4	100%	9	9	100%	
ADVANCED WILDLIFE SOLUTIONS, REYNOLDS, GA	2	2	100%	8	8	100%	
AINSWORTH PET NUTRITION, MEADVILLE, PA	10	10	100%	123	123	100%	
ALDI INC, BATAVIA, IL	2	2	100%	23	23	100%	
ALLEN COUNTY FARMERS SERVICE, INC, SCOTTSVILLE, KY	2	1	50%	8	7	88%	C Protein (1)
ALMO NATURE USA INC, MIAMI, FL	2	2	100%	4	4	100%	
AMERICAN PET FOOD, MAGNOLIA, TX	1	1	100%	14	14	100%	
AMERICAN PET NUTRITION INC, OGDEN, UT	8	8	100%	47	47	100%	
AMERICAN TUNA INC, BONITA, CA	1	0	0%	12	9	75%	Ca (1) Mn (1) Zn (1)
ANI-LOGICS OUTDOORS LLC, WORTHINGTON, MN	1	1	100%	5	5	100%	
ARCHER DANIEL MIDLAND CO, DECATUR, IL	1	1	100%	3	3	100%	
ARCHER DANIELS MIDLAND CO, DECATUR, IL	1	1	100%	3	3	100%	
ARCUS HUNTING LLC, COVINGTON, GA	1	1	100%	2	2	100%	
ARNOLD FEED & SEED, CAMPBELLSVILLE, KY	4	3	75%	22	21	95%	C Protein (1)
ARTHUR DOGSWELL LLC, LOS ANGELES, CA	5	2	40%	10	7	70%	AH Fat (3)
ARTHUR PET PRODUCTS, SALISBURY, MD	17	14	82%	38	35	92%	AH Fat (3)
ASHLAND MILLING COMPANY, INC, ASHLAND, KY	6	6	100%	30	30	100%	
ASSOC WHOLE GROC, KANSAS CITY, KS	9	8	89%	88	87	99%	Ca (1)
AUTHORITY PET FOOD CO, PHOENIX, AZ	10	9	90%	115	114	99%	Zn (1)
BADGER STATE ETHANOL, MONROE, WI	1	1	100%	4	4	100%	
BAGDAD ROLLER MILLS, INC, BAGDAD, KY	28	19	68%	162	152	94%	C Protein (4) P (1) Cu (3) BMD (1) Decox (1)
BAGEL HOUSE LLC, LAKE ZURICH, IL	1	0	0%	2	1	50%	C Fiber (1)
BARDSTOWN MILLS, INC, BARDSTOWN, KY	12	2	17%	54	38	70%	C Protein (10) Ca (1) Cu (2) Zn (3)
BARTON BRANDS, LTD., BARDSTOWN, KY	3	3	100%	9	9	100%	
BARTON KIEFFER & ASSOCIATES LLC, MANSFIELD, OH	1	1	100%	6	6	100%	
BCCH LLC, MAUMELLE, AR	2	2	100%	4	4	100%	
BEARS BONE BAKERY, EVANSVILLE, IN	2	2	100%	4	4	100%	
BELL ROCK GROWER INC, SAN MARCOS, CA	2	2	100%	4	4	100%	
BEST FRIENDS FOODS, NATICK, MA	3	3	100%	36	36	100%	
BIG & J INDUSTRIES INC, GRAND ISLAND, NE	4	4	100%	24	24	100%	
BIG BARN FARM STORE, GARRISON, KY	1	1	100%	4	4	100%	
BIG CREEK FOODS LLC, GAINESVILLE, GA	1	1	100%	3	3	100%	
BIG GAME BUTTER LLC, PINE MOUNTAIN, GA	1	1	100%	2	2	100%	
BIG HEART PET BRANDS/DEL MONTE, PITTSBURGH, PA	20	20	100%	177	177	100%	
BIL JAC FOODS INC, MEDINA, OH	1	1	100%	13	13	100%	
BIO BISCUIT INC, ST HYACINTHE, QC	1	1	100%	13	13	100%	
BIOZYME INCORPORATED, ST JOSEPH, MO	4	4	100%	44	44	100%	

Table 9. Report of official feed samples analyzed—2017.

Business Name	Samples			Tests			Sample Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BISCUIT BOB'S GOURMET DOG TREATS, SHELBY, MI	1	0	0%	2	0	0%	C Protein (1) AH Fat (1)
BIXBI PET, BOULDER, CO	3	1	33%	27	21	78%	C Protein (1) AH Fat (1) Ca (1) P (1) Cu (1) Ca:P (1)
BLACK GOLD PET FOODS INC, VIENNA, MO	2	1	50%	25	23	92%	Ca (1) P (1)
BLACKWOOD PET FOOD LLC, LISBON, OH	4	2	50%	50	47	94%	Ca (2) P (1)
BLAIN SUPPLY INC, JANESVILLE, WI	1	1	100%	11	11	100%	
BLOOM PRODUCTS LLC, WEST MILTON, OH	1	0	0%	10	8	80%	Ca (1) Vit A (1)
BLOOMINGTON SPECIALTY PRODUCT, BLOOMINGTON, IN	1	1	100%	1	1	100%	
BLUE BUFFALO CO LTD, WILTON, CT	21	20	95%	184	183	99%	AH Fat (1)
BLUE DOG BAKERY, SEATTLE, WA	4	4	100%	8	8	100%	
BLUE RIDGE NATURALS, MURPHY, NC	5	2	40%	10	7	70%	AH Fat (3)
BLUEGRASS BARKERY, LEXINGTON, KY	2	2	100%	4	4	100%	
BLUEGRASS FARM SUPPLY, MARION, KY	16	14	88%	97	95	98%	Ca (1) Salt (1)
BLUEGRASS FEED & SUPPLY LLC, HUSTONVILLE, KY	1	1	100%	5	5	100%	
BLUEGRASS SEED & FERTILIZER, INC, BARDSTOWN, KY	7	5	71%	42	39	93%	C Protein (1) Cu (1) Zn (1)
BOBS FEED & FERTILIZER, CROSSVILLE, TN	2	2	100%	10	10	100%	
BOCCE'S BAKERY, BROOKLYN, NY	1	0	0%	2	1	50%	AH Fat (1)
BOWLIN FEED INC, ALBANY, KY	7	5	71%	43	41	95%	Mg (1) Vit A (1)
BOWMAN MILLING, POCAHONTAS, MO	2	2	100%	4	4	100%	
BRAVO RAW DIET, MANCHESTER, CT	1	0	0%	2	1	50%	AH Fat (1)
BREW BONES, BROOMFIELD, CO	1	1	100%	3	3	100%	
BRODHEAD FARM MART, BRODHEAD, KY	6	3	50%	39	35	90%	C Protein (1) Fat (1) Salt (2)
BROOKSVILLE FARM SUPPLY, BROOKSVILLE, KY	9	8	89%	57	55	96%	C Protein (1) Cu (1)
BUBBA ROSE BISCUIT CO, BOONTON, NJ	3	1	33%	7	5	71%	C Protein (1) AH Fat (1)
BUCHHEIT INC, PERRYVILLE, MO	1	1	100%	2	2	100%	
BUCK STALKER ATTRACTANTS, BURNSIDE, KY	1	1	100%	9	9	100%	
BUCKEYE NUTRITION, DALTON, OH	1	1	100%	7	7	100%	
BUCKLEY BROS INC, WILMINGTON, OH	2	1	50%	10	9	90%	C Protein (1)
BUCKLEY PET, BOULDER, CO	1	1	100%	3	3	100%	
BUDDY BISCUITS, CHESTERFIELD, MO	4	4	100%	9	9	100%	
BUDDY'S KITCHEN, AURORA, ON	1	0	0%	2	0	0%	C Protein (1) AH Fat (1)
BUFFALO TRACE DISTILLERY INC, FRANKFORT, KY	1	1	100%	3	3	100%	
BUNGE CANADA, WEST OAKVILLE, ON	1	1	100%	3	3	100%	
BUNGE NA (EAST) LLC - DECATUR IN, DECATUR, IN	2	2	100%	4	4	100%	
BUNGE NA (EAST) LLC - DELPHOS, DELPHOS, OH	1	1	100%	4	4	100%	
BUNGE NA (EAST) LLC - MORRISTOWN, MORRISTOWN, IN	2	2	100%	4	4	100%	
BUNGE NA INC - CAIRO, CAIRO, IL	14	5	36%	28	19	68%	C Fiber (9)
BURKMANN FEEDS, BOWLING GREEN, KY	8	6	75%	30	28	93%	C Protein (1) AH Fat (1)
BURKMANN FEEDS, LONDON, KY	10	5	50%	54	48	89%	C Protein (3) Fat (3)

Table 9. Report of official feed samples analyzed—2017.

Business Name	Samples			Tests			Sample Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
BURKMANN FEEDS, DANVILLE, KY	92	73	79%	711	686	96%	C Protein (4) Fat (3) Ca (1) P (1) Salt (2) Co (1) Mg (3) K (4) Se (2) Vit A (3) Decox (1)
BURKMANN FEEDS, GLASGOW, KY	41	37	90%	142	138	97%	Fat (1) Salt (3)
BURKMANN FEEDS - HARDINSBURG, HARNED, KY	8	4	50%	46	41	89%	C Protein (3) Salt (1) Cu (1)
C & S PRODUCTS CO INC, FORT DODGE, IA	1	1	100%	2	2	100%	
C3 FEED & FARM LLC, BOWLING GREEN, KY	4	4	100%	18	18	100%	
CALHOUN FEED SERVICE LLC, MADISONVILLE, KY	5	4	80%	20	19	95%	Cu (1)
CAN AM PET TREATS INC, VERNON, BC	1	1	100%	2	2	100%	
CANEYVILLE MILLING COMPANY, CANEYVILLE, KY	36	27	75%	179	167	93%	C Protein (4) Fat (1) Ca (2) Salt (4) Decox (1)
CANIDAE CORPORATION, NORCO, CA	8	4	50%	100	94	94%	C Protein (2) AH Fat (1) Ca (1) P (1) Zn (1)
CARDINAL LABORATORIES INC, AZUSA, CA	5	4	80%	11	10	91%	Moisture (1)
CARGILL, TAMPA, FL	1	1	100%	3	3	100%	
CARGILL - PROCESSING GROUP, CEDAR RAPIDS, IA	1	1	100%	2	2	100%	
CARGILL ANIMAL NUTRITION, MINNEAPOLIS, MN	38	30	79%	293	284	97%	C Protein (8) Se (1)
CARGILL DRY CORN INGREDIENTS, PARIS, IL	4	4	100%	9	9	100%	
CARGILL INC, SIDNEY, OH	1	1	100%	2	2	100%	
CARGILL INCORPORATED, MINNEAPOLIS, MN	14	12	86%	53	51	96%	C Protein (2)
CARNA4 INC, TORONTO, ON	2	0	0%	26	15	58%	C Protein (1) Ca (2) P (2) Cu (2) Zn (2) Ca:P (2)
CARNIVORE MEAT CO LLC, GREEN BAY, WI	1	1	100%	2	2	100%	
CAROLINA PRIME PET, LENOIR, NC	1	0	0%	2	1	50%	C Protein (1)
CASTOR & POLLUX PET WORKS, AMARILLO, TX	10	5	50%	103	96	93%	AH Fat (3) Ca (2) P (2)
CAUDILL SEED - LOUISVILLE, LOUISVILLE, KY	3	2	67%	13	12	92%	C Protein (1)
CENTRAL AQUATIC, FRANKLIN, WI	1	0	0%	2	1	50%	C Protein (1)
CENTRAL FARM SUPPLY OF KY, INC, LOUISVILLE, KY	14	9	64%	116	110	95%	C Protein (3) P (1) Mg (1) Zn (1)
CENTRAL FARMERS SUPPLY, INC, GREENSBURG, KY	15	11	73%	84	80	95%	C Protein (2) Salt (1) Cu (1)
CHAMPION PETFOODS USA INC, AUBURN, KY	10	10	100%	123	123	100%	

Table 9. Report of official feed samples analyzed—2017.

Business Name	Samples			Tests			Sample Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
CHARLEE BEAR FARMS INC, ST FRANCIS, WI	6	6	100%	12	12	100%	
CHICKEN SOUP/PET LOVER'S SOUL, COS COB, CT	12	12	100%	137	137	100%	
CHS INC, INVER GROVE HEIGHTS, MN	4	4	100%	16	16	100%	
CLARK'S GROCERY FEED & SEED, ROCKHOLDS, KY	5	4	80%	27	26	96%	Ca (1)
CLAUDIA'S CANINE BAKERY, MAUMELLE, AK	1	1	100%	2	2	100%	
CLEMENTS AG SUPPLY, SPRINGFIELD, KY	4	2	50%	22	20	91%	C Protein (2)
CLOUD STAR, SAN LUIS OBISPO, CA	3	3	100%	6	6	100%	
COBALT INTERNATIONAL, ROCK HILL, SC	3	1	33%	9	7	78%	C Protein (2)
COMMONWEALTH AGRI-ENERGY, LLC, HOPKINSVILLE, KY	2	2	100%	8	8	100%	
COMPLETE NATURAL NUTRITION, AURORA, ON	1	1	100%	3	3	100%	
CONSOLIDATED GRAIN & BARGE, MT VERNON, IN	10	10	100%	20	20	100%	
CONSUMERS SUPPLY DISTRIBUTING, NORTH SIOUX CITY, SD	1	0	0%	3	2	67%	Fat (1)
CORRECT FOODS INC, CYNTHIANA, KY	1	1	100%	13	13	100%	
COSTCO WHOLESALE CORPORATION, SEATTLE, WA	5	5	100%	63	63	100%	
COUNTRY ACRES FEED CO INC, BRENTWOOD, MO	4	4	100%	22	22	100%	
CPC COMMODITIES, LLC, FOUNTAIN RUN, KY	44	35	80%	327	318	97%	C Protein (2) NPN (3) Vit A (2) BMD (1) Monensin (1)
CSD NUTRITION LLC, NORTH SIOUX CITY, SD	1	1	100%	2	2	100%	
CUB RUN MILLING COMPANY, CUB RUN, KY	3	2	67%	22	21	95%	Salt (1)
CULLMAN BLEND MILL, CULLMAN, AL	2	2	100%	8	8	100%	
CUMBERLAND AGRICULTURAL MANAGEMENT, LLC, EDMONTON, KY	1	0	0%	4	3	75%	Ca (1)
CUSTOM FEED MILL LLC, MORGANFIELD, KY	8	4	50%	57	52	91%	K (2) Se (3)
D & D COMMODITIES, STEPHEN, MN	1	1	100%	2	2	100%	
DAD'S PET CARE INC, MEADVILLE, PA	3	3	100%	36	36	100%	
DARLING INTERNATIONAL INC, IRVING, TX	25	22	88%	48	45	94%	C Protein (1) Fat (2)
DAVE'S PET FOOD, AGAWAM, MA	9	8	89%	73	69	95%	C Protein (1) AH Fat (1) Ca (1) P (1)
DAWES LABORATORIES LTD, ARLINGTON HEIGHTS, IL	1	0	0%	3	2	67%	Se (1)
DAY & DAY FEED MILL, COLUMBIA, KY	2	1	50%	10	9	90%	C Protein (1)
DEER CRACK LLC, HARTLAND, MI	3	3	100%	9	9	100%	
DELIGHTABLES, EAGLE, ID	1	1	100%	2	2	100%	
DESIGNING HEALTH INC, VALENCIA, CA	1	1	100%	2	2	100%	
DEVENISH NUTRITION LLC, FAIRMONT, MN	3	3	100%	20	20	100%	
DIAMOND PET FOODS CO, META, MO	13	13	100%	131	131	100%	
DIAMOND V, CEDAR RAPIDS, IA	1	1	100%	3	3	100%	
DIGGIN YOUR DOG, RENO, NV	1	1	100%	2	2	100%	
DINOVITE INC, CRITTENDEN, KY	8	6	75%	23	21	91%	AH Fat (2)
DIXIE FEED & SUPPLY, FALMOUTH, KY	1	1	100%	7	7	100%	
DOG FOR DOG, SANTA MONICA, CA	3	2	67%	6	4	67%	C Protein (1) AH Fat (1)
DOLGENCORP LLC, GOODLETTSVILLE, TN	10	8	80%	125	123	98%	C Protein (1) P (1)
DSM NUTRITIONAL PRODUCTS, PARSIPPANY, NJ	1	1	100%	6	6	100%	
DZA BRANDS LLC, SALISBURY, NC	16	16	100%	192	192	100%	
EARTH ANIMAL, WESTPORT, CT	3	2	67%	6	4	67%	C Protein (1) AH Fat (1)
EMERALD PET PRODUCTS, OAKLAND, CA	6	6	100%	13	13	100%	

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ENDURANCE FEEDS INC, MAYFIELD, KY	7	5	71%	46	43	93%	Ca (1) P (1) Cu (1)
ESPREE ANIMAL PRODUCTS, GRAPEVINE, TX	1	1	100%	2	2	100%	
EST LLC, COVINGTON, GA	1	0	0%	3	2	67%	Fat (1)
ETHICAL PRODUCT INC, BLOOMFIELD, NJ	2	1	50%	5	4	80%	AH Fat (1)
ETTA SAYS LLC, MARYLAND HEIGHTS, MO	11	8	73%	23	20	87%	AH Fat (3)
EUROCAN PET PRODUCTS, NEW HAMBURG, ON	1	1	100%	2	2	100%	
EVANGERS DOG & CAT FOOD CO INC, WHEELING, IL	4	2	50%	31	27	87%	AH Fat (2) Ca (1) P (1)
EVOLVED HABITATS, NEW ROADS, LA	3	3	100%	13	13	100%	
EXCEL EQUINE, LOUISVILLE, KY	10	9	90%	61	60	98%	C Protein (1)
EXCLUSIVELY PET INC, MILWAUKEE, WI	2	1	50%	4	3	75%	AH Fat (1)
EXL MILLING LTD, LLOYDMINSTER, SK	1	1	100%	2	2	100%	
EXOTIC NUTRITION, NEWPORT NEWS, VA	1	0	0%	6	5	83%	Ash (1)
F M BROWNS SONS INC, SINKING SPRING, PA	2	1	50%	11	10	91%	Na (1)
FAITHWAY FEED CO INC, GUNTERSVILLE, AL	6	5	83%	65	63	97%	Ca (1) P (1)
FARMERS FEED MILL, LEXINGTON, KY	15	15	100%	104	104	100%	
FARMINA, NEW YORK, NY	2	2	100%	24	24	100%	
FEED PRODUCTS & SERVICE CO, ST LOUIS, MO	1	1	100%	1	1	100%	
FEEDERS SUPPLY COMPANY, LOUISVILLE, KY	4	4	100%	16	16	100%	
FERTRELL CO, BAINBRIDGE, PA	1	1	100%	5	5	100%	
FETCH - FOR COOL PETS, NEW YORK, NY	5	5	100%	10	10	100%	
FINISH LINE HORSE PRODUCTS, BENSENVILLE, IL	1	1	100%	10	10	100%	
FIVE STAR FEED SERVICE, HOPKINSVILLE, KY	12	6	50%	91	83	91%	C Protein (1) Ca (1) Salt (1) Se (1) Na (1) Monensin (3)
FLEMING COUNTY FARM SUPPLY, FLEMINGSBURG, KY	3	3	100%	33	33	100%	
FLUKER FARMS INC, PORT ALLEN, LA	2	0	0%	5	3	60%	C Protein (2)
FORMAX FEEDS, DANVILLE, KY	17	14	82%	109	106	97%	Fat (1) Se (1) Monensin (1)
FOUR SEASONS FARM, GARDEN & HOME SUPPLY, BARBOURVILLE, KY	4	2	50%	19	14	74%	C Protein (2) Ca (1) P (1) Cu (1)
FRANK HINTON & SON, PLUMMERS LANDING, KY	15	14	93%	92	90	98%	Cu (1)
FREDS INC, MEMPHIS, TN	10	10	100%	114	114	100%	
FRESH PET, SECAUCUS, NJ	3	2	67%	27	25	93%	AH Fat (1) Ca:P (1)
FROMM FAMILY FOODS LLC, MEQUON, WI	1	1	100%	13	13	100%	
FURST-MCNESS CO, FREEPORT, IL	1	1	100%	11	11	100%	
GATEWAY PRODUCTS INC, HOLLY, CO	1	1	100%	2	2	100%	
GENERAL NUTRITION COMPANY, PITTSBURGH, PA	4	4	100%	12	12	100%	
GHC MILLING COMPANY, FORDSVILLE, KY	17	17	100%	106	106	100%	
GIVE PET, OVERLAND PARK, KS	1	1	100%	4	4	100%	
GLOBAL HARVEST BIRDSEED, SEATTLE, WA	1	1	100%	2	2	100%	
GLOBAL ONE PET, ALISO VIEJO, CA	4	4	100%	49	49	100%	
GOLD RIVER FEEDS, SHELBYVILLE, TN	2	2	100%	19	19	100%	
GOLD RIVER LIQUID PRODUCTS LLC, SHELBYVILLE, TN	1	1	100%	10	10	100%	
GOLDENROD FEEDS, LIBERTY, KY	8	7	88%	51	50	98%	C Protein (1)
GRAHAM FEED CO, TERRE HAUTE, IN	3	3	100%	5	5	100%	

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GRAIN PROCESSING CORP - INDIANA, WASHINGTON, IN	1	1	100%	3	3	100%	
GRANDMA LUCY'S, RANCHO SANTA MARGARITA, CA	2	1	50%	4	2	50%	C Protein (1) AH Fat (1)
GRANDMA MAE'S COUNTRY NATURALS, NEW YORK, NY	7	5	71%	85	82	96%	AH Fat (1) Ca (1) P (1)
GREEN PLAINS BLUFFTON LLC, BLUFFTON, IN	3	3	100%	16	16	100%	
GREEN PLAINS OBION, RIVES, TN	3	3	100%	11	11	100%	
GREEN RIVER FEED MILL, INC, MORGANTOWN, KY	20	12	60%	99	91	92%	C Protein (5) Fat (2) Salt (1)
GREENBRIER INTERNATIONAL, CHESAPEAKE, VA	3	3	100%	28	28	100%	
GRIZZLY PET PRODUCTS INC, WOODINVILLE, WA	1	1	100%	1	1	100%	
GRO-TEC INC, MODOC, IN	1	1	100%	9	9	100%	
HALO-PURELY FOR PETS, TAMPA, FL	5	3	60%	43	41	95%	Na (1) Ca:P (1)
HANBY FARMS FEED & SUPPLY, NASHPORT, OH	1	1	100%	5	5	100%	
HANSEN MUELLER CO, SANDUSKY, OH	1	1	100%	2	2	100%	
HAPPY HEN TREATS, BOERNE, TX	2	1	50%	12	9	75%	Fat (1) Salt (1) Na (1)
HAPPY HOWIES INC, DETROIT, MI	1	1	100%	2	2	100%	
HART AGSTRONG LLC, TRENTON, KY	1	1	100%	4	4	100%	
HARTZ MOUNTAIN CORPORATION, SECAUCUS, NJ	7	6	86%	23	22	96%	AH Fat (1)
HAYS FEED & SEED LLC, SMITHS GROVE, KY	9	3	33%	70	62	89%	C Protein (1) C Fiber (1) Ca (4) Salt (1) Zn (1)
HEALTH EXTENSION PET CARE, DEER PARK, NY	3	0	0%	7	3	43%	C Protein (1) AH Fat (3)
HEALTH PRO NUTRITION, SOUTH EL MONTE, CA	3	3	100%	6	6	100%	
HEALTHY DOGMA, LAKE ORION, MI	1	1	100%	2	2	100%	
HEALTHY PET, FERNDALE, WA	2	2	100%	4	4	100%	
HEALTHYTREATS INC, NAPLES, FL	2	1	50%	6	4	67%	C Protein (1) AH Fat (1)
HEARTBREAK RIDGE FARM SUPPLY, LLC, CLAY CITY, KY	2	0	0%	13	11	85%	C Protein (1) Ca (1)
HERBSMITH INC, HARTLAND, WI	1	1	100%	2	2	100%	
HIGGINS GROUP CORPORATION, MIAMI, FL	1	1	100%	3	3	100%	
HIGHLAND FEED AND SUPPLY, HILLSBORO, OH	4	4	100%	21	21	100%	
HILANDER FEED COMPANY, GEORGETOWN, KY	4	4	100%	13	13	100%	
HILLS PET NUTRITION INC, TOPEKA, KS	16	16	100%	110	110	100%	
HIMALAYAN CORPORATION, MUKILTEO, WA	2	2	100%	4	4	100%	
HOLLYWOOD FEED LLC, MEMPHIS, TN	2	1	50%	4	3	75%	C Protein (1)
HOOVERS FEED MILL, SCOTTSVILLE, KY	5	4	80%	30	29	97%	Ca (1)
HUBBARD FEEDS INC, MANKATO, MN	24	18	75%	167	161	96%	C Protein (1) Ca (1) Co (2) Se (1) Carbadox (1)
HUGS PET PRODUCTS, MONTREAL, MO	1	0	0%	14	13	93%	Ca (1)
I AND LOVE AND YOU, BOULDER, CO	5	5	100%	62	62	100%	
IAMS FOOD COMPANY, MASON, OH	16	13	81%	181	178	98%	P (3)
I'D RATHER BE WITH MY DOG, AGAWAM, MA	2	1	50%	5	4	80%	AH Fat (1)
IDEAL FARM SUPPLY, WALTON, KY	1	0	0%	7	6	86%	C Protein (1)
IMS PET INDUSTRIES, WOOD RIDGE, NJ	5	4	80%	10	9	90%	C Protein (1)

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
INABA FOODS (USA) INC, TORRANCE, CA	1	1	100%	2	2	100%	
INGREDION INC, WESTCHESTER, IL	1	1	100%	3	3	100%	
INTEGRITY FEEDS LLC, HARDIN, KY	1	1	100%	7	7	100%	
INTEGRITY FEEDS LLC, OWENSBORO, KY	26	11	42%	216	188	87%	C Protein (2) Fat (1) Ca (2) P (6) Salt (3) Co (2) Cu (2) Mg (1) Mn (2) K (1) Se (1) Zn (2) Vit A (3)
INTER AMERICAN, CINCINNATI, OH	12	10	83%	89	87	98%	C Protein (2)
INTL PET SUPPLIES/DISTRIBUTING, SAN DIEGO, CA	11	9	82%	138	135	98%	AH Fat (1) Ca (1) P (1)
ISLE OF DOGS CORPORATION, GERMANTOWN, WI	1	1	100%	2	2	100%	
J & H FEED & TACK INC, PAINTSVILLE, KY	4	4	100%	24	24	100%	
J.E.S. SUPPLY, PRATTVILLE, AL	1	1	100%	11	11	100%	
JBS USA LLC, SOUDERTON, PA	2	1	50%	5	3	60%	C Protein (1) Moisture (1)
JEFFRIES FEED, SEED & SUPPLY, CAMPBELLSVILLE, KY	2	1	50%	8	7	88%	C Protein (1)
JENKINS FEED SERVICE , ADAMS, TN	8	5	63%	46	41	89%	Ca (1) P (1) Zn (3)
JNJ ORIENTAL LLC, HOUSTON, TX	2	2	100%	2	2	100%	
JRB FOODS INC, SHARON CENTER, OH	1	1	100%	2	2	100%	
K9 GRANOLA FACTORY, THOMASVILLE, PA	2	0	0%	4	0	0%	C Protein (2) AH Fat (2)
KALMBACH FEEDS INC, UPPER SANDUSKY, OH	38	35	92%	279	276	99%	C Protein (2) Se (1)
KASEL INDUSTRIES, DENVER, CO	1	1	100%	2	2	100%	
KAYTEE PRODUCTS INC, CHILTON, WI	12	11	92%	39	38	97%	AH Fat (1)
KCC NATURAL FARM, FOREST HILL, MD	1	1	100%	2	2	100%	
KDR PET TREATS LLC, FRESNO, CA	4	2	50%	12	10	83%	AH Fat (2)
KEE'S FARM SERVICE & SUPPLY, LLC., GRAYSON, KY	1	1	100%	4	4	100%	
KELLY FOODS CORPORATION, MEDINA, OH	7	6	86%	80	79	99%	P (1)
KENT NUTRITION GROUP INC, MUSCATINE, IA	9	7	78%	76	74	97%	C Protein (2)
KENTUCKY EQUINE RESEARCH INC, VERSAILLES, KY	1	1	100%	7	7	100%	
KENTUCKY NUTRITION SERVICE, LAWRENCEBURG, KY	3	3	100%	30	30	100%	
KENTUCKY PERFORMANCE PRODUCTS, VERSAILLES, KY	1	1	100%	4	4	100%	
KER SPORT HORSE NUTRITION, VERSAILLES, KY	1	1	100%	7	7	100%	
KETTLE CRAFT PET PRODUCTS, KELOWNA, BC	2	0	0%	9	7	78%	Ash (2)
K-MART CORPORATION, HOFFMAN ESTATES, IL	5	4	80%	64	62	97%	Ca (1) P (1)
KOCH CHINCHILLA RANCH, CINCINNATI, OH	2	2	100%	10	10	100%	
KONG COMPANY, GOLDEN, CO	3	3	100%	7	7	100%	
KREAMER FEED INC, KREAMER, PA	1	1	100%	4	4	100%	
KROGER, CINCINNATI, OH	30	23	77%	224	216	96%	C Protein (1) AH Fat (2) Ca (2) P (1) Zn (2)

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
KT SADDLERY, PERKASIE, PA	1	0	0%	3	0	0%	C Protein (1) AH Fat (1) Moisture (1)
KYORIN, HIMEJI, JAPAN	2	2	100%	6	6	100%	
LA CROSSE MILLING COMPANY, COCHRANE, WI	2	2	100%	6	6	100%	
LAFFEBER COMPANY, CORNELL, IL	1	1	100%	2	2	100%	
LAKE CUMBERLAND FEED & FARM SUPPLY, LLC, RUSSELL SPRINGS, KY	3	1	33%	18	14	78%	C Protein (2) Ca (1) Zn (1)
LESTER STUTZMAN FEED MILL, MARION, KY	16	14	88%	65	63	97%	P (2)
LINCOLNLAND AGRI-ENERGY, PALESTINE, IL	2	2	100%	7	7	100%	
LINDY'S BAKERY, DAYTON, OH	1	1	100%	2	2	100%	
LOWES PELLETS & GRAIN INC, GREENSBURG, IN	8	8	100%	44	44	100%	
LUTTRULL FEEDS, INC, PEMBROKE, KY	7	5	71%	44	41	93%	C Protein (1) Cu (2)
LUV NEST LLC, MILFORD, NH	1	1	100%	2	2	100%	
LYSTN LLC, FLEETWOOD, PA	2	1	50%	14	13	93%	AH Fat (1)
M & W MILLING COMPANY INC, COLUMBIA, KY	2	2	100%	11	11	100%	
MAJESTY'S ANIMAL NUTRITION, REDMOND, OR	1	1	100%	3	3	100%	
MALDEN SPECIALTY SOY, MALDEN, MO	2	2	100%	6	6	100%	
MANNA PRO PRODUCTS, LLC, CHESTERFIELD, MO	12	9	75%	81	78	96%	C Protein (2) Vit A (1)
MARION FEED MILL INC, MARION, KY	2	1	50%	9	8	89%	Salt (1)
MARS FISHCARE NORTH AMERICA INC, CHALFONT, PA	6	6	100%	12	12	100%	
MARS PETCARE US INC, FRANKLIN, TN	20	16	80%	204	200	98%	AH Fat (1) P (3)
MARSHALL PET PRODUCTS, WOLCOTT, NY	5	5	100%	20	20	100%	
MAR-VO MINERAL CO INC, OSSEO, MI	2	2	100%	6	6	100%	
MAXIMUM PERFORMANCE INC, LOUISVILLE, KY	1	0	0%	13	12	92%	C Fiber (1)
MAYS LICK MILL, MAYS LICK, KY	1	1	100%	1	1	100%	
MAZELIN FEED MILL, SCOTTSVILLE, KY	17	11	65%	87	80	92%	C Protein (1) Fat (1) Ca (1) P (3) Cu (1)
MCCAULEY BROS INC, VERSAILLES, KY	21	20	95%	155	154	99%	Se (1)
MCRAY FEED, LLC, HARRODSBURG, KY	23	19	83%	121	117	97%	C Protein (3) Ca (1)
MEIJER INC, GRAND RAPIDS, MI	6	5	83%	29	28	97%	C Protein (1)
MELICK AQUA FEED INC, CATAWISSA, PA	8	5	63%	31	28	90%	C Protein (2) AH Fat (1)
MENARD INC, EAU CLAIRE, WI	8	7	88%	68	67	99%	P (1)
MENIFEE COUNTY FARM SUPPLY, FRENCHBURG, KY	1	0	0%	5	4	80%	C Protein (1)
MENNEL MILLING COMPANY, FOSTORIA, OH	1	1	100%	2	2	100%	
MENU FOODS, PENNSAUKEN, NJ	2	2	100%	24	24	100%	
MERRICK PET CARE INC, AMARILLO, TX	9	8	89%	84	83	99%	Ash (1)
MFS ALLIANCE, INC, EDMONTON, KY	6	3	50%	25	20	80%	Ca (2) Salt (2) Monensin (1)
MGPI OF INDIANA LLC, LAWRENCEBURG, IN	3	3	100%	9	9	100%	
MID AMERICA PET FOOD LLC, MT PLEASANT, TX	3	3	100%	39	39	100%	
MIDWEST AGRI COMMODITIES CO, SAN RAFAEL, CA	1	1	100%	3	3	100%	
MIDWESTERN PET FOODS INC, EVANSVILLE, IN	22	18	82%	209	204	98%	Cu (1) Na (1) Zn (1) Ash (2)
MILK PRODUCTS, CHILTON, WI	1	1	100%	4	4	100%	

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
MILK SPECIALTIES GLOBAL, EDEN PRAIRIE, MN	1	1	100%	4	4	100%	
MILO'S KITCHEN LLC, PITTSBURGH, PA	7	4	57%	15	12	80%	AH Fat (3)
MIRACLE CORP PRODUCTS, DAYTON, OH	2	0	0%	4	2	50%	AH Fat (2)
MISSISSIPPI LIME CO. ST LOUIS, MO	4	4	100%	4	4	100%	
MONNIG BROTHERS, IRONTON, OH	4	3	75%	19	17	89%	C Protein (1) Ca (1)
MORTON SALT INC, CHICAGO, IL	1	1	100%	1	1	100%	
MOSAIC GLOBAL SALES LLC, LITHIA, FL	2	2	100%	5	5	100%	
MOUNTAIN PEAK PET TREATS, LLC, GRAND PRAIRIE, TX	2	1	50%	5	4	80%	AH Fat (1)
MOYER & SON INC, SOUDERTON, PA	4	3	75%	8	7	88%	C Protein (1)
MPM PRODUCTS USA INC, KENNESAW, GA	2	1	50%	3	2	67%	AH Fat (1)
MRS PASTURES COOKIES FOR HORSE, WALNUT CREEK, CA	2	2	100%	5	5	100%	
MULTIPET INTERNATIONAL, MOONACKIE, NJ	1	1	100%	2	2	100%	
MY PET CARNIVORE, INDIANAPOLIS, IN	2	1	50%	18	17	94%	AH Fat (1)
MYERS FEED & FARM SUPPLY, CORINTH, KY	6	4	67%	42	39	93%	C Protein (1) Ca (1) P (1)
NATURAL BALANCE PET FOODS INC, BURBANK, CA	18	15	83%	188	184	98%	Ca (2) Ca:P (2)
NATURAL LIFE PET PRODUCTS, PITTSBURG, KS	4	1	25%	51	42	82%	C Protein (1) AH Fat (1) Ca (3) P (2) Cu (1) Ca:P (1)
NATURAL POLYMER INTL CORP, PLANO, TX	1	0	0%	3	2	67%	AH Fat (1)
NATURAL WAY FEEDS LLC, CLARE, MI	1	0	0%	6	2	33%	P (1) Se (1) Zn (1) Vit A (1)
NATURE ZONE, CHICO, CA	1	0	0%	2	1	50%	AH Fat (1)
NATURES ANIMALS INC, MAMARONECK, NY	4	4	100%	9	9	100%	
NATURES LOGIC, LINCOLN, NE	10	9	90%	47	46	98%	AH Fat (1)
NATURES RECIPE PET FOODS, PITTSBURGH, PA	15	14	93%	157	155	99%	Ca (1) Ca:P (1)
NATURES VARIETY, LINCOLN, NE	15	13	87%	123	121	98%	AH Fat (2)
NESTLE PURINA PETCARE CO, ST LOUIS, MO	43	42	98%	349	348	100%	AH Fat (1)
NEW LIFE INTERNATIONAL INC, HOMESTEAD, FL	1	0	0%	3	1	33%	C Protein (1) Ash (1)
NOOTIE LLC, DELRAY BEACH, FL	3	3	100%	6	6	100%	
NORTH AMERICAN SALT COMPANY, OVERLAND PARK, KS	1	0	0%	7	6	86%	Se (1)
NORTHERN PET PRODUCTS INC, CONCORD, ON	1	0	0%	2	1	50%	Moisture (1)
NORTHWEST NATURALS, PORTLAND, OR	1	0	0%	3	2	67%	Moisture (1)
NU-FEEDS INC, TUNKHANNOCK, PA	1	0	0%	11	10	91%	P (1)
NULO INC, AUSTIN, TX	5	3	60%	63	60	95%	AH Fat (1) Ca (1) P (1)
NUNN MILLING COMPANY INC, EVANSVILLE, IN	8	6	75%	50	48	96%	C Protein (1) Ca:P (1)
NUTRECO CANADA INC, ST MARYS, ON	2	2	100%	26	26	100%	
NUTRENA, MINNEAPOLIS, MN	8	8	100%	74	74	100%	
NUTRI-VET LLC, BOISE, ID	7	6	86%	16	15	94%	AH Fat (1)
NUTRO PRODUCTS INC, FRANKLIN, TN	6	6	100%	53	53	100%	
NYLABONE PRODUCTS, NEPTUNE, NJ	2	0	0%	6	4	67%	Ca (2)
ODOM'S LIVESTOCK SUPPLY, INC, MAYFIELD, KY	8	6	75%	54	52	96%	C Protein (2)
OLD MILL PET PRODUCTS LLC, WESTPORT, CT	5	5	100%	11	11	100%	
OMEGA SEA LTD, PAINESVILLE, OH	2	1	50%	8	7	88%	C Protein (1)

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
ONLY NATURAL PET, BOULDER, CO	6	4	67%	75	71	95%	C Protein (2) Cu (1) Mn (1)
ORIGEN NUTRITION INC, CHINO, CA	9	9	100%	112	112	100%	
ORSCHELN FARM & HOME, MOBERLY, MO	12	11	92%	93	92	99%	C Protein (1)
OSCAR NEWMAN LLC, BATAVIA, IL	1	1	100%	2	2	100%	
OVERTON-PICKETT FARMERS COOP, LIVINGSTON, TN	3	3	100%	14	14	100%	
OWENSBORO GRAIN CO INC, OWENSBORO, KY	37	37	100%	74	74	100%	
OXBOW ENTERPRISES, MURDOCK, NE	13	10	77%	43	40	93%	C Protein (2) Ca (1)
PACIFIC COAST DISTRIBUTING, PHOENIX, AZ	7	6	86%	61	60	98%	P (1)
PAMPA BEVERAGES LLC, MIAMI, FL	2	2	100%	6	6	100%	
PARAGON PET PRODUCTS USA INC, WILMINGTON, DE	1	1	100%	2	2	100%	
PARTY ANIMAL INC, HOLLYWOOD, CA	4	1	25%	49	43	88%	Ca (2) P (2) Cu (1) Mn (1)
PAW PRINTS BAKERY LLC, GEORGETOWN, KY	2	1	50%	4	2	50%	C Protein (1) AH Fat (1)
PENN PAK INC, MADISON, GA	1	1	100%	3	3	100%	
PEPPER'S HARDIN COUNTY MILLING COMPANY, ELIZABETHTOWN, KY	9	7	78%	42	40	95%	C Protein (2)
PERFORMANCE FEEDS, RED BOILING SPGS, TN	39	29	74%	222	211	95%	C Protein (1) C Fiber (1) Ca (2) P (3) Salt (1) Cu (1) Zn (1) CTC (1)
PERFORMANCE SEED, ST. CLOUD, MN	1	1	100%	3	3	100%	
PET BRANDS, COLUMBUS, OH	3	3	100%	6	6	100%	
PET KING, JAMAICA, NY	5	5	100%	10	10	100%	
PET RELEAF, ENGLEWOOD, CO	1	1	100%	2	2	100%	
PET VALU CANADA INC, MARKHAM, ON	11	11	100%	136	136	100%	
PET VENTURES INC, NORTH HOLLYWOOD, CA	6	5	83%	14	13	93%	C Protein (1)
PET WANTS, CINCINNATI, OH	2	2	100%	27	27	100%	
PET-AG INC, HAMPSHIRE, IL	2	2	100%	4	4	100%	
PETGUARD INC, GREEN COVE SPGS, FL	6	5	83%	75	74	99%	P (1)
PETIQ, EAGLE, ID	4	2	50%	10	8	80%	AH Fat (2)
PETKIND, WHITE ROCK, BC	1	0	0%	3	2	67%	C Protein (1)
PETMATE DENVER, ARLINGTON, TX	1	1	100%	2	2	100%	
PETMATRIX LLC, SADDLE BROOK, NJ	3	3	100%	7	7	100%	
PETON DISTRIBUTORS INC, MARKHAM, ON	1	1	100%	2	2	100%	
PETS GLOBAL INC, GARDENA, CA	5	4	80%	62	61	98%	Ca (1)
PETS OF AMERICA WHOLESALE SPLY, WILLIAMSTON, NC	2	1	50%	26	24	92%	Ca (1) P (1)
PETS PREFER, MENOMONIE, WI	1	0	0%	2	1	50%	C Protein (1)
PMI NUTRITION INTL INC, BRENTWOOD, MO	5	5	100%	42	42	100%	
PMI NUTRITIONAL INTL INC, ST LOUIS, MO	6	6	100%	37	37	100%	
PRADCO OUTDOOR BRANDS, BIRMINGHAM, AL	1	1	100%	2	2	100%	
PRAIRIE DOG TREATS, GRAND PRAIRIE, TX	2	0	0%	5	3	60%	AH Fat (2)
PRECISE PET PRODUCTS, NACOGDOCHES, TX	5	4	80%	62	61	98%	P (1)
PRECISION AG SOLUTIONS, OWENSBORO, KY	2	0	0%	22	20	91%	Mn (1) Se (1)
PREMIUM EDGE, META, MO	1	1	100%	12	12	100%	
PREMIUM NUTRITIONAL PRODUCTS, MISSION, KS	3	2	67%	10	9	90%	AH Fat (1)

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PRETTY BIRD INTL INC, STACY, MN	3	3	100%	7	7	100%	
PREVENT DISTRIBUTORS, PEACH BOTTOM, PA	1	0	0%	12	11	92%	Se (1)
PREWITT FARM SUPPLY, INC, WILLIAMSBURG, KY	3	2	67%	16	15	94%	Ca (1)
PRIMAL PET FOODS INC, SAN FRANCISCO, CA	3	2	67%	7	6	86%	AH Fat (1)
PRO-PET LLC, ST MARYS, OH	6	3	50%	45	41	91%	AH Fat (1) Ca (1) P (2)
PSP DISTRIBUTION LLC , SEYMOUR, IN	5	4	80%	40	39	98%	C Fiber (1)
PUPPY CAKE LLC, EVANS CITY, PA	3	0	0%	6	3	50%	AH Fat (3)
PURE TREATS INC, VAUDREUIL DORION, QC	4	2	50%	8	6	75%	AH Fat (2)
PURINA ANIMAL NUTRITION LLC, SHOREVIEW, MN	40	35	88%	292	287	98%	C Protein (2) Cu (1) CTC (1) Decox (1)
QUALITY LIQUID FEEDS INC, DODGEVILLE, WI	1	1	100%	3	3	100%	
RADAGAST PET FOOD INC, PORTLAND, OR	2	1	50%	23	20	87%	Ca (1) P (1) Mg (1)
RAGLAND MILLS INC, NEOSHO, MO	3	2	67%	25	24	96%	Vit A (1)
RED A FEEDS, MANKATO, MN	11	10	91%	60	59	98%	BMD (1)
REDBARN PET PRODUCTS LLC, GREAT BEND, KS	3	3	100%	7	7	100%	
REDMOND MINERALS INC, REDMOND, UT	2	0	0%	20	14	70%	Cu (1) Fe (1) Mn (1) K (1) S (1) Zn (1)
REDPAW INC, FRANKLIN, WI	1	1	100%	13	13	100%	
RENAISSANCE NUTRITION INC, ROARING SPRING, PA	4	4	100%	28	28	100%	
REPASHY VENTURES INC, LA JOLLA, CA	2	1	50%	6	5	83%	Ash (1)
RESOLVE SUSTAINABLE SOLUTIONS, FORT DODGE, IA	3	3	100%	12	12	100%	
RESTORA-LIFE MINERALS INC, BAY SPRINGS, MS	1	1	100%	3	3	100%	
RICHARDSON FARMS LAND MGMT INC, MT. STERLING, IL	1	0	0%	2	0	0%	C Protein (1) Fat (1)
RICHDEL INC, CARSON CITY, NV	1	1	100%	3	3	100%	
RICHIE MASON, TOLLESBORO, KY	5	5	100%	30	30	100%	
RIDLEY BLOCK OPERATIONS, MANKATO, MN	25	15	60%	238	222	93%	C Protein (4) Fat (1) Ca (1) P (2) Salt (1) Mg (2) Mo (1) Se (2) Vit A (2)
RIDLEY FEED INGREDIENT MENDOTA, MENDOTA, IL	2	2	100%	7	7	100%	
RIDLEY SPECIALTY PRODUCTS, MANKATO, MN	3	3	100%	18	18	100%	
RIDLEY USA INC, MANKATO, MN	1	1	100%	11	11	100%	
RIP'S FARM CENTER, INC, TOLLESBORO, KY	47	39	83%	214	202	94%	C Protein (7) Fat (3) Salt (1) Monensin (1)
RIVER VALLEY ANIMAL FOODS, ROBARDS, KY	2	1	50%	11	9	82%	Ca (1) P (1)
ROCKINGHAM COOPERATIVE, HARRISONBURG, VA	1	1	100%	10	10	100%	
ROSE ACRE FARMS INC, SEYMOUR, IN	1	1	100%	2	2	100%	
ROUDYBUSH INC, WOODLAND, CA	1	1	100%	2	2	100%	
ROYAL CANIN USA INC, ST CHARLES, MO	12	11	92%	151	150	99%	Ca:P (1)

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	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
RUDY GREEN INC, LOUISVILLE, KY	1	0	0%	2	0	0%	C Protein (1) AH Fat (1)
RUDY'S FARM CENTER, KEVIL, KY	4	4	100%	32	32	100%	
RURAL KING SUPPLY - MATTOON, MATTOON, IL	16	13	81%	177	172	97%	Ca (2) P (1) Zn (1) Vit A (1)
RUSH DIRECT INC, WOOD DALE, IL	3	3	100%	6	6	100%	
RUSSELL CO. FARM STORE, RUSSELL SPRINGS, KY	12	10	83%	61	59	97%	P (1) Monensin (1)
SALIX LLC, DEERFIELD BEACH, FL	3	3	100%	6	6	100%	
SAMS WEST INC, BENTONVILLE, AR	5	5	100%	54	54	100%	
SAVE-A-LOT LTD, EARTH CITY, MO	3	3	100%	28	28	100%	
SAVORY PRIME, VENTURA, CA	1	1	100%	2	2	100%	
SCIENCE HILL MILLING COMPANY, INC, SCIENCE HILL, KY	15	10	67%	92	86	93%	C Protein (2) Ca (2) P (1) Co (1)
SCOTT PET PRODUCTS, ROCKVILLE, IN	4	2	50%	25	23	92%	AH Fat (1) Ca (1)
SEVENTY FEEDS LLC, EUBANK, KY	2	2	100%	10	10	100%	
SHOPKO STORES OPERATING CO LLC, GREEN BAY, WI	5	4	80%	31	30	97%	AH Fat (1)
SHUCKS FENCE CO, INC, SHELBYVILLE, KY	1	0	0%	7	6	86%	C Protein (1)
SIEMER MILLING COMPANY, TEUTOPOLIS, IL	1	1	100%	3	3	100%	
SIMMONS PET FOOD INC, PENNSAUKEN, NJ	4	4	100%	51	51	100%	
SIMPLY NOURISH PET FOOD CO, PHOENIX, AZ	12	11	92%	125	124	99%	AH Fat (1)
SLIGO FEED MILL, PENDLETON, KY	4	4	100%	23	23	100%	
SMOKEHOUSE PET PRODUCTS, SUN VALLEY, CA	1	1	100%	2	2	100%	
SN PET HOLDINGS, DALLAS, TX	3	3	100%	6	6	100%	
SOJOS INC, MINNEAPOLIS, MN	2	2	100%	15	15	100%	
SOLID GOLD PET LLC, GREENVILLE, SC	9	9	100%	109	109	100%	
SOULISTIC, NATICK, MA	5	3	60%	58	56	97%	Na (2)
SOUTHEASTERN MINERALS INC, BAINBRIDGE, GA	1	1	100%	6	6	100%	
SOUTHERN FEED SERVICE, MARION, IL	3	2	67%	35	34	97%	Zn (1)
SOUTHERN GARDENS, LEWISTON, FL	1	1	100%	3	3	100%	
SOUTHERN STATE COOP INC, RICHMOND, VA	97	77	79%	756	733	97%	C Protein (6) NPN (1) Fat (1) P (1) Salt (1) Mn (2) Na (7) Vit A (1) BMD (1) Lasalocid (1) Monensin (1)
SOUTHERN STATES- BOWLING GREEN, BOWLING GREEN, KY	2	1	50%	11	10	91%	C Protein (1)
SOUTHERN STATES- DANVILLE, DANVILLE, KY	2	1	50%	5	4	80%	C Protein (1)
SOUTHERN STATES- FLEMINGSBURG, FLEMINGSBURG, KY	13	10	77%	52	49	94%	C Protein (1) Fat (1) C Fiber (1)
SOUTHERN STATES- GLASGOW, GLASGOW, KY	1	1	100%	1	1	100%	
SOUTHERN STATES- HODGENVILLE, HODGENVILLE, KY	2	2	100%	5	5	100%	
SOUTHERN STATES- HOPKINSVILLE, HOPKINSVILLE, KY	2	2	100%	12	12	100%	
SOUTHERN STATES- LIBERTY, LIBERTY, KY	1	0	0%	5	4	80%	C Protein (1)
SOUTHERN STATES- LONDON, LONDON, KY	6	2	33%	29	25	86%	C Protein (4)

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SOUTHERN STATES- OWINGSVILLE, OWINGSVILLE, KY	2	2	100%	11	11	100%	
SOUTHERN STATES- RICHMOND VA, RICHMOND, VA	4	4	100%	42	42	100%	
SOUTHERN STATES- SOMERSET, SOMERSET, KY	3	3	100%	13	13	100%	
SPECIALTY FEEDS INC, MEMPHIS, TN	5	3	60%	53	50	94%	Ca (2) P (1)
SPECIALTY PRODUCTS RESOURCES INC, WALTHAM, MA	5	2	40%	10	7	70%	C Protein (2) AH Fat (1)
STANDLEE HAY CO INC, EDEN, ID	3	1	33%	6	4	67%	C Protein (1) Ash (1)
STAR MARK PET PRODUCTS INC, HUTTO, TX	2	1	50%	4	3	75%	C Protein (1)
STAY ON THE PORCH, DIPPING SPRINGS, TX	1	1	100%	3	3	100%	
STEEL'S BOTTOM FEED, WARSAW, KY	4	2	50%	28	25	89%	Ca (1) Cu (1) Zn (1)
STELLA & CHEWY'S LLC, OAK CREEK, WI	6	2	33%	77	69	90%	C Protein (2) Ca (2) P (4)
STEVE'S REAL FOOD , SANDY, UT	4	2	50%	12	9	75%	C Protein (2) AH Fat (1)
STEWART'S FARM SUPPLY, BROOKSVILLE, KY	9	2	22%	53	43	81%	C Protein (5) Fat (1) C Fiber (2) Cu (2)
STRONGHEART, EMPORIA, KS	1	0	0%	12	10	83%	C Protein (1) AH Fat (1)
SUMMERSVILLE FEED MILL, SUMMERSVILLE, KY	3	2	67%	18	17	94%	C Protein (1)
SUNBIRD INC, HURON, SD	1	1	100%	4	4	100%	
SUNSHINE MILLS INC, RED BAY, AL	21	21	100%	139	139	100%	
SUPERIOR EQUINE PERFORMANCE LLC, PRINCETON, KY	1	0	0%	11	8	73%	Mn (1) Zn (1) Vit A (1)
SWAMP CORP, KNOXVILLE, TN	2	2	100%	10	10	100%	
T & H FEED SERVICE, INC, LEBANON, KY	6	3	50%	39	36	92%	C Protein (2) Fat (1)
T & T FEED AND SEED, BARDSTOWN, KY	4	2	50%	17	15	88%	C Protein (1) Fat (1)
TAILBANGERS, MILLSBORO, DE	2	0	0%	6	3	50%	C Protein (2) Moisture (1)
TAPA PETFOOD, NEDDICK, ME	1	1	100%	2	2	100%	
TASTE OF THE WILD, META, MO	8	8	100%	101	101	100%	
TATE & LYLE INGREDIENTS AMERICAS, DECATUR, IL	1	1	100%	2	2	100%	
TBD BRANDS LLC, EXETER, NH	2	2	100%	4	4	100%	
TDBBS LLC, RICHMOND, VA	1	1	100%	2	2	100%	
TEDS FEED STORE, MIDDLESBORO, KY	1	1	100%	4	4	100%	
TENDER & TRUE PET NUTRITION, OMAHA, NE	4	2	50%	50	48	96%	C Protein (1) AH Fat (1)
TENNESSEE FARMERS COOP - LAVERGNE, LAVERGNE, TN	11	8	73%	93	86	92%	Salt (1) Cu (1) Mn (1) Se (2) Zn (1) Vit A (1)
TEST DIET, ST. LOUIS, MO	1	1	100%	3	3	100%	
THE ANDERSONS INC, MAUMEE, OH	1	1	100%	3	3	100%	
THE BEAR AND THE RAT, DENVER, CO	1	1	100%	2	2	100%	
THE BRAMTON CO., LLC, DALLAS, TX	1	0	0%	11	9	82%	C Protein (1) Se (1)
THE BUCK BOMB, CROFTON, MD	1	1	100%	2	2	100%	

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THE CRUMP GROUP INC, BRAMPTON, ON	3	2	67%	6	5	83%	C Protein (1)
THE HONEST KITCHEN INC, SAN DIEGO, CA	4	1	25%	52	49	94%	AH Fat (1) Na (2)
THE HYLAND CO INC, ASHLAND, KY	29	24	83%	321	314	98%	C Protein (2) AH Fat (2) Ca (1) P (1) Ash (1)
THE LAZY DOG COOKIE CO INC, BALLSTON SPA, NY	2	2	100%	4	4	100%	
THE NUTRO COMPANY, FRANKLIN, TN	12	12	100%	131	131	100%	
THE REAL MEAT COMPANY, MONTROSE, CA	1	0	0%	3	2	67%	AH Fat (1)
THREE DOG BAKERY LLC, KANSAS CITY, MO	4	3	75%	9	7	78%	C Protein (1) AH Fat (1)
TIKI, CHESTERFIELD, MO	4	1	25%	50	47	94%	AH Fat (3)
TIZWHIZ SALES LTD, SPRINGFIELD, OH	1	1	100%	9	9	100%	
TOMLYN PRODUCTS, FORT WORTH, TX	1	1	100%	9	9	100%	
TOPCO ASSOCIATES, ELK GROVE VILLAGE, IL	20	18	90%	166	164	99%	C Protein (1) P (1)
TOTAL FEEDS INC, WEATHERFORD, TX	2	2	100%	16	16	100%	
TRACTOR SUPPLY COMPANY - BRENTWOOD, BRENTWOOD, TN	48	41	85%	351	343	98%	C Protein (4) AH Fat (1) Ca (1) K (2)
TRADER JOE'S, MONSEY, NY	7	7	100%	64	64	100%	
TREATS FOR CHICKENS, COTATI, CA	1	0	0%	4	2	50%	Ca (1) Salt (1)
TRI STATE PACKAGING CO, VAN WERT, OH	2	2	100%	4	4	100%	
TRI-COUNTY FERTILIZER CO., INC, RICHMOND, KY	5	4	80%	17	15	88%	C Protein (1) Fat (1)
TRIPLE CROWN NUTRITION INC, WAYZATA, MN	2	2	100%	23	23	100%	
TRURX LLC, EAGLE, ID	1	1	100%	2	2	100%	
TUCKER MILLING LLC, GUNTERSVILLE, AL	1	1	100%	4	4	100%	
TUFFYS PET FOODS INC, PERHAM, MN	9	6	67%	94	87	93%	Ca (1) P (2) Cu (1) Fe (1) Mn (1) Zn (1)
TYSON PET PRODUCTS, INDEPENDENCE, IA	5	5	100%	12	12	100%	
UNIPET USA LLC, TRAVELERS REST, SC	1	1	100%	2	2	100%	
UNITED LIVESTOCK COMMODITIES, MAYFIELD, KY	9	4	44%	83	70	84%	Ca (3) P (2) Salt (1) Cu (2) Mg (1) Mn (1) Se (2) Zn (1)
UNITED PET GROUP INC, BLACKSBURG, VA	14	12	86%	38	34	89%	C Protein (1) AH Fat (1) Mg (1) K (1)
UNITED PET GROUP/CINCINNATI, BLACKSBURG, VA	1	1	100%	3	3	100%	
VALERO MARKETING & SUPPLY CO, SAN ANTONIO, TX	2	2	100%	10	10	100%	
VALLEY FARM CENTER, INC, MONTICELLO, KY	2	1	50%	13	11	85%	Ca (1) Salt (1)
VALLEY FEED, CINCINNATI, OH	1	1	100%	1	1	100%	
VALLEY GRAIN PRODUCTS, HENDERSON, KY	1	1	100%	1	1	100%	
VAPCO INC 8/14, LAWRENCE, MA	1	1	100%	7	7	100%	

Table 9. Report of official feed samples analyzed—2017.

Business Name	Samples			Tests			Sample Violations
	Total	No. Passed	% Passed	Total	No. Passed	% Passed	
VERA, EAGLE, IA	4	0	0%	12	8	67%	AH Fat (4)
VETRISCIENCE LABORATORIES, ESSEX JUNCTION, VT	1	1	100%	10	10	100%	
VETS CHOICE, DEER PARK, NY	1	1	100%	14	14	100%	
VETS PLUS INC, MEMONONIE, WI	1	1	100%	2	2	100%	
VETSCIENCE LLC, DALLAS, TX	6	5	83%	11	10	91%	C Protein (1)
VIRBAC AH INC, FORT WORTH, TX	1	1	100%	2	2	100%	
VITAKRAFT SUN SEED CO INC, BOWLING GREEN, OH	2	2	100%	5	5	100%	
W M GOLDEN AND SON, SPRINGVILLE, PA	1	0	0%	11	10	91%	P (1)
WAGGERS PET PRODUCTS, CALGARY, AB	1	1	100%	2	2	100%	
WAGGIN TRAIN LLC, ST LOUIS, MO	1	1	100%	2	2	100%	
WALGREEN CO, DEERFIELD, IL	3	3	100%	18	18	100%	
WALKABOUT, FAIRFIELD, GA	2	1	50%	26	24	92%	Ca (1) P (1)
WAL-MART STORES INC, BENTONVILLE, AR	17	17	100%	192	192	100%	
WARE MANUFACTURING INC, PHOENIX, AZ	1	0	0%	2	1	50%	C Protein (1)
WARE MILLING, HOUSTON, MS	8	7	88%	32	31	97%	Se (1)
WARWICK NUTRITION, LITITZ, PA	1	0	0%	7	6	86%	Se (1)
WELL PET LLC, TEWKSBURY, MA	20	16	80%	204	198	97%	C Protein (2) AH Fat (1) Ca (1) P (2)
WERUVA INTERNATIONAL INC, NATICK, MA	8	6	75%	100	98	98%	Ca:P (2)
WESTBROOK MONSTER MIX LLC, PEACH BOTTOM, PA	1	1	100%	7	7	100%	
WESTWAY FEED PRODUCTS LLC, TOMBALL, TX	1	1	100%	4	4	100%	
WHITETAILED INSTITUTE OF NORTH AMERICA, PINTLALA, AL	2	1	50%	10	8	80%	Fat (1) Vit A (1)
WHOLE FOODS MARKET, AUSTIN, TX	7	7	100%	66	66	100%	
WHOLE SOME PRIDE PET TREATS, LAKE ST. LOUIS, MO	1	1	100%	2	2	100%	
WILD CALLING! PET FOOD, GREELEY, CO	5	4	80%	61	60	98%	P (1)
WILLARD MILLING, INC, WILLARD, KY	24	22	92%	183	178	97%	Salt (1) Cu (2) Zn (2)
WILLIAMS FARM, GERMANTOWN, KY	1	1	100%	1	1	100%	
WINCHESTER FEED COMPANY, INC, WINCHESTER, KY	15	15	100%	105	105	100%	
WINDING WAY FARM, LLC, UNION, KY	1	1	100%	3	3	100%	
WOODFORD FEED COMPANY, INC, VERSAILLES, KY	3	3	100%	21	21	100%	
WOODLAND GROUP OUTDOOR PRODUCT, SPARTA, NJ	2	1	50%	12	11	92%	Fat (1)
WORLD PET FOODS INC, RED BAY, AL	1	0	0%	2	1	50%	AH Fat (1)
XTREME AQUATIC FOODS, PRINCETON, FL	1	1	100%	2	2	100%	
YODER'S FEED & SUPPLY, RUSSELLVILLE, KY	11	8	73%	73	70	96%	C Protein (1) Ca (2)
ZIWPEAK LTD, CARMEL, CA	2	1	50%	26	25	96%	Ca:P (1)
ZOO MED LABORATORIES, INC, SAN LUIS OBISPO, CA	15	9	60%	50	44	88%	C Protein (1) AH Fat (3) Ca (2)
ZUKES, DURANGO, CO	8	5	63%	18	15	83%	AH Fat (3)
TOTALS	3094	2471	80%	20,634	19,813	96%	

UNIVERSITY OF KENTUCKY
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