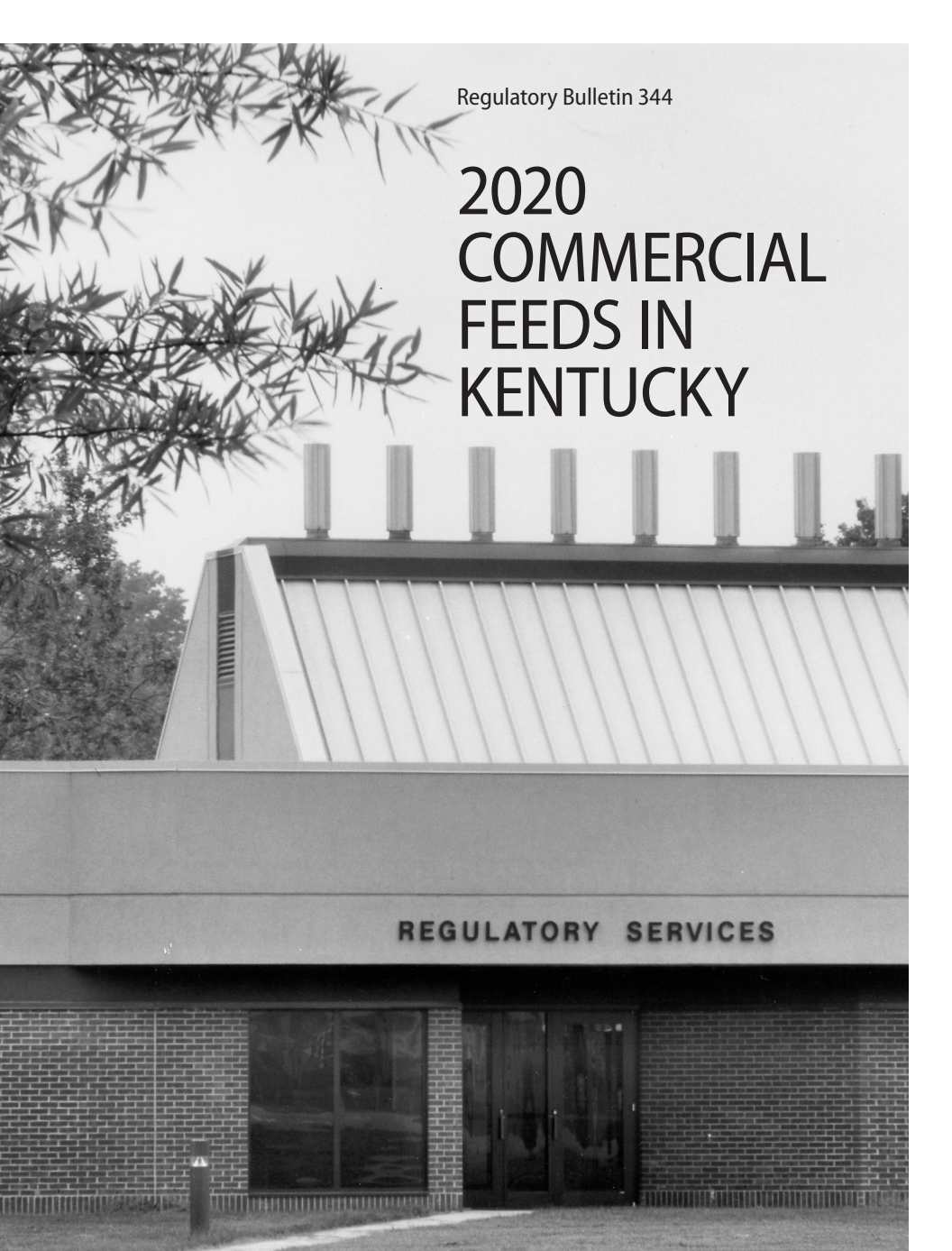


Regulatory Bulletin 344

2020 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 last 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 law and regulations are primarily in response to more varied livestock feeding practices, changes in feed manufacturing technology, and new feed ingredients. In 2018, our feed regulations were revised for both livestock feed and pet food. The revisions better align Kentucky regulations with the American Association of Feed Control Officials (AAFCO) model bill and regulations. The changes included additional guarantees on equine and goat feed labels and requiring caloric content for all dog and cat foods and treats.

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.

Impact of COVID-19 on Feed Regulation and the Industry

Our division was classified as essential and our offices and laboratories remained open throughout 2020. Our inspectors continued to collect samples from businesses that were actively distributing

animal feed. While conducting their duties they followed all appropriate guidelines to protect themselves and others. At times, this meant less interaction with mill management and employees was prudent. Many businesses did close public areas and some offered drive-up service to avoid traffic inside facilities.

We did see an impact on inspection activities and did not complete our normal number of FDA contract inspections in the fall. At some point in 2021, we hope to resume more normal activities at feed mills and distributors.

Feed Mill Inspections

Maintaining high-quality and safe feeds for animals requires a comprehensive inspection program. This is particularly important when mills manufacture medicated feed. Mills may be required to obtain a license from the Food and Drug Administration (FDA) to manufacture medicated feed, depending on the type and concentration of drug. There are currently 8 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 record keeping 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 FDA that conducts inspections of feed distributors and manufacturers each year. In the last two years, our inspection program has evolved to include more joint inspections, a greater focus on manufacturers, and the addition of new inspections to evaluate progress of firms in meeting Food Safety

Modernization Act (FSMA) requirements. Inspections to determine compliance with the rules in place to prevent the establishment and amplification of Bovine Spongiform Encephalopathy (BSE) are now limited to firms that manufacture feeds containing ruminant protein products. Our division continues to encourage compliance by Kentucky feed distributors with the Veterinary Feed Directive (VFD) rules that went into effect in 2017. Inspections

at medicated feed mills include a review and evaluation of VFD records.

We completed only 12 inspections in 2020. Our division did complete our 2019-20 FDA inspection contract prior to March when FDA temporarily halted all routine inspections. In the fall, we completed an additional 5 inspections. Our current inspection contract includes evaluations of good manufacturing practices (GMP's) at 14 Kentucky mills manufacturing medi-

Table 1. Number of feed ingredient samples in 2020.

	Official Samples with Guarantees	Unofficial, Proficiency, Service Samples	Total
Type			
Alfalfa Products	6	0	6
Animal Products	13	1	14
Brewery Products	0	1	1
Corn Products	72	78	150
Cottonseed Products	3	0	3
Distillers Products	59	44	103
Soybean Products	108	46	154
Wheat Products	5	4	9
Other Grains	19	19	38
Minerals	14	0	14
Vitamins	3	0	3
Urea & Other NPN	0	0	0
Other	2	2	4
Total	304	195	499

Table 2. Number of commercial feed samples in 2020.

	Official Samples with Guarantees	Unofficial, Proficiency, Service Samples	Total
Formula Feeds			
Poultry Feed	246	91	337
Beef Feed	455	61	516
Dairy Feed	30	2	32
Swine Feed	94	5	99
Sheep Feed	26	44	70
Goat Feed	53	6	59
Equine Feed	266	12	278
Rabbit Feed	29	1	30
Fish Feed	5	0	5
Deer Products	35	7	42
Milk Replacer	11	0	11
Mineral/Vitamin/Other	196	50	246
Wild Bird Food	34	0	34
Total	1480	279	1759

cated feed and 16 inspections at firms that manufacture only non-medicated feed. With FSMA regulations now including production of non-medicated feed, we will be conducting the first GMP inspections for 12 manufacturers. The current contract also includes the first preventative controls inspections at 10 of our larger manufacturers. At the beginning of 2020, there were 190 feed manufacturing facilities located in Kentucky that serve the animal feed and pet food industries. Additionally, 312 feed distributors located in the state handle livestock feed.

Food Safety

The goal of the Food Safety Modernization Act (FSMA), enacted in 2011, is to ensure the safety of the US food supply by shifting the focus of federal regulation from responding to contamination to preventing it. As of September 2018, all facilities manufacturing or holding animal feed are required to comply with

good manufacturing practices. By the fall of 2019, preventative controls were also required for eligible facilities. 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

Table 3. Number of pet and specialty feed samples in 2020.

Type	Official Samples with Guarantees	Unofficial, Proficiency, Service Samples	Total
Dog Food	351	46	397
Cat Food	151	0	151
Dog & Cat Treats	398	2	400
Specialty Pet & Pet Other	70	1	71
Total	970	49	1019

Table 4. Survey of 2020 corn crop (70 total samples).

	Units	# Tests	LLQ ¹	# Tests > LLQ	Mean ²
Crude Protein	%	70			7.02
Aflatoxin	ppb	34	< 5 ppb	1	7.55
Fumonisin	ppm	34	< 1 ppm	29	3.00
Vomitoxin	ppm	34	< 0.5 ppm	27	0.82
Zearalenone	ppm	34	< 0.02 ppm	24	0.20
T-2 Toxin	ppm	34	< 0.02 ppm	0	---
Ochratoxin	ppm	34	< 0.02 ppm	1	0.02
Moisture	%	69			14.52

¹Lower limit of quantification

²Mean includes only samples with analyzed values > LLQ.

Table 5. Number of feed analyses reported in 2020.

		Official Samples	Unofficial, Proficiency, Service Samples	Total
Proximate	Crude Protein	2427	567	2994
	NPN Equiv Protein	6	0	6
	Crude Fat	511	258	769
	AH Fat	888	13	901
	Crude Fiber	959	246	1205
	Acid Detergent Fiber	933	178	1111
	Neutral Detergent Fiber	391	129	520
	Ash	107	7	114
	Moisture	847	148	995
Minerals	Aluminum	0	2	2
	Arsenic	0	0	0
	Cadmium	0	0	0
	Calcium	1960	304	2264
	Ca:P Ratio	318	3	321
	Cobalt	1733	125	1858
	Copper	1959	304	2263
	Chromium	0	0	0
	Iron	1960	304	2264
	Lead	0	0	0
	Magnesium	1960	304	2264
	Manganese	1956	305	2261
	Molybdenum	1	2	3
	Phosphorus	1960	304	2264
	Potassium	1960	304	2264
	Salt, min	966	22	988
	Selenium	672	70	742
	Sodium	1960	304	2264
	Sulfur	23	7	30
	Zinc	1960	304	2264
Vitamins	Vitamin A	253	7	260
Drugs	Amprolium	0	1	1
	Bacitracin	0	0	0
	Carbadox	0	0	0
	Chlortetracycline	4	2	6
	Decoquinat	4	1	5
	Lasalocid	26	43	69
	Monensin, sodium	69	15	84
	Oxytetracycline	0	0	0
Tylosin	0	0	0	
Mycotoxins	Aflatoxin	3	40	43
	Fumonisin	2	36	38
	Ochratoxin	3	39	42
	T-2-Toxin	3	39	42
	Vomitoxin	3	39	42
	Zearalenone	3	37	40
Other	Listeria	9	0	9
	Salmonella	56	0	56
	Microscopy	5	9	14
Totals		28,860	4,822	33,682

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 22 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. Kentucky has fully implemented each of the 11 standards. This cooperative agreement has brought \$3,000,000 into the division and the university over the last 5 years.

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. Currently, nearly 24,000 different commercial feeds and pet foods are registered for distribution by around 1,200 companies. More than half of these registered products are in the pet and specialty categories.

A feed label is the fundamental communication with the consumer; it provides 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

Table 6. Reported tons of ingredients distributed in 2020.

Ingredient	Exempt	Non- Exempt
Alfalfa Products	1,893	3,208
Animal Products	3,417	17,046
Brewery Products	812	2,915
Corn Products	83,902	143,786
Cottonseed Products	17,740	6,080
Distillers Products	71,618	184,204
Soybean Products	190,183	664,173
Wheat Products	109,971	12,868
Other Grains/Oilseeds	2,089	9,906
Minerals	33,323	85,880
Vitamins	81	2,581
Urea & Other NPN	2,120	461
Other	33,286	89,372
Distillers wet grains	0	172,881
Brewers wet grains	0	6,723
Liquid whey	0	0
Total	550,435	1,402,084

Table 7. Reported tons of commercial feeds distributed in 2020.

Type	2020
Poultry Feed	89,952
Beef Feed	404,422
Dairy Feed	134,883
Swine Feed	16,182
Sheep Feed	17,963
Goat Feed	6,322
Horse Feed	129,422
Rabbit Feed	4,602
Fish Feed	1,726
Deer Products	14,445
Milk Replacer	2,071
Mineral/Vitamin/Other	67,261
Wild Bird Food	25,889
Pet Food	222,462
Total	1,137,603

Table 8. Analytical variations for commercial feed samples (referenced in 12 KAR 2:021).

	Lower AV	Upper AV		Lower AV	Upper AV
Crude Protein	-3%	50%	Molybdenum	-40%	100%
NPN Equiv. Protein	-50%	20%	Selenium ¹	-40%	40%
Crude Fat	-20%	+5 units	Zinc ¹	-40%	200%
Acid Hydrolysis Fat	-20%	+5 units	Vitamin A	-30%	200%
Crude Fiber	-60%	15%	Ash		5%
Acid Detergent Fiber	-60%	15%	Moisture		12%
Neutral Detergent Fiber	-60%	15%	Amprolium	-40%	20%
Calcium ¹	-15%	+2 units	Apramycin	-20%	20%
Phosphorus ¹	-15%	+2 units	Bacitracin	-40%	40%
Salt	-40%	40%	Carbadox	-20%	20%
Sodium ¹	-30%	130%	Chlortetracycline	-30%	30%
Magnesium ¹	-40%	200%	Decoquinatate	-20%	20%
Potassium ¹	-30%	200%	Lasalocid	-25%	25%
Sulfur	-30%	30%	Monensin, Sodium	-30%	30%
Cobalt ¹	-40%	200%	Oxytetracycline	-30%	30%
Copper ¹	-40%	200%	Penicillin	-35%	35%
Iron ¹	-40%	200%	Tylosin	-30%	30%
Manganese ¹	-40%	200%			

¹Analytical variations listed for minerals do not apply to cat and dog complete foods formulated to meet Association of American Feed Control Officials (AAFCO) requirements. The tolerances are national standards set by AAFCO.

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 inspection 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 2020, the feed program collected a total of \$1,408,973 in inspection fees, registration fees, and late payment penalties.

Feed Sampling

For Tables 1 through 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.

Tables 1, 2, and 3 list the number of samples analyzed in 2020 obtained by field inspectors of feed ingredients, commercial feeds, and pet/specialty foods. The majority of the ingredients sampled continue to be corn products (including corn grain and corn gluten feed), distiller's grains, and soybean products (soybean meal and soy hulls). Beef, poultry, and equine feed were the largest categories of commercial animal feed excluding pet food. We did collect fewer pet food samples in 2020. Inspectors continued to sample as many guarantors as possible but reduced the number of samples per guarantor. Additionally, we continue to

order pet and specialty products through internet distributors with 75 products purchased in 2020.

In addition to the official samples reported, our lab also analyzed an additional 523 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. In 2020, our lab analyzed 58 service samples for Kentucky feed consumers, feed dealers, and manufacturers.

The 523 other samples also include 320 samples collected from three Kentucky manufacturers in a feed sampling study supported by a grant from the Association of American Feed Control Officials (AAFCO). The purpose of the study was to determine if the current AAFCO recommendation of collecting samples from 10 bags of a lot of feed is adequate to provide a representative sample for compliance testing. The 10-probe recommendation was based on studies conducted in the 1950s with a limited number of feed types and analytes. The Division would like to express our appreciation to the Kentucky manufacturers that allowed us to collect these research samples at their facilities. These manufacturers were Burkman Mills-Danville, Bagdad Roller Mills, and Willard Milling.

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. No evidence was found of mycotoxin problems in this year's crop (Table 4). Crude protein averaged 7.0 percent on the 70 samples in this year's survey.

Feed Analysis

Analyses of nutrients and other components in feed samples are provided by our feed laboratory. The laboratory data are 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 2020. 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.

Our lab conducted around 250 mycotoxin tests in 2020. The majority of these tests were conducted on corn samples that made up the corn quality survey. The other tests were on samples analyzed during investigations into product quality and/or animal health issues.

In late 2018, our lab added the capability to determine the presence of microbial contaminants, specifically listeria and salmonella. In 2020, we analyzed 67 different samples for either salmonella, listeria, or both microorganisms. Though we have primarily concerned our testing with pet treats and foods, we have also analyzed livestock and poultry treats.

In June 2020, we began evaluating the potential use of NIR (near infrared reflectance spectroscopy) in determining compliance in our feed sample program. In November, we began using NIR as a screening tool with livestock feeds and ingredients and have since expanded NIR use to include pet foods, pet treats, and specialty products. Samples are scanned after grinding but prior to submission to the lab for wet chemistry. If the NIR scan indicates the analyte passes, the NIR value is reported and the sample goes to the lab for any further analyses needed. If the NIR scan indicates the sample does not meet

the guarantee of the analyte in question, the sample is analyzed by the appropriate wet chemistry method. This is a screening test and we do not issue violations based solely on the NIR estimate. Analysis of minerals and medications continues via traditional wet chemistry methods. For sample reports, we report which analytes were estimated using NIR. NIR also has allowed the reporting of analytes that we do not typically measure in some feed types (for example, crude fat and crude fiber in poultry and swine feeds). For our lab, the advantages of using NIR as a screening test include both the speed of analysis with results available immediately and lower cost in both lab reagents and labor.

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 varia-

tions 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. Our AV table is referenced in our updated regulations (12 KAR 2:021).

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.

Sampling Location Report

Table 9 contains a list of all Kentucky locations where inspectors collected samples in 2020. Samples were collected at 343 locations in 2020 compared to 357 locations the previous year.

Sample Violation Report

The sample violation report for 2020 (Table 10) includes 2,754 official samples from 518 different manufacturers or guarantors. Overall, 76 percent of samples passed (no violations on any analytes) while 95 percent 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 sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
A & S Livestock & Feed, Jamestown	0	1	1
Ace Hardware - Falmouth	1	0	1
Adairville Feed Mill - Adairville	11	0	11
Adairville Feed Mill #2 - Russellville	21	0	21
ADM Alliance Nutrition, Campbellsville	12	2	14
Ag1 Coop, Monticello	9	0	9
Akridge Farm Supply - Fredonia	7	0	7
Albany Building Center, Inc., Albany	3	0	3
Aldi - Bowling Green	0	9	9
Allen County Farmers Service, Inc., Scottsville	1	0	1
Arnold Feed & Seed, Campbellsville	9	1	10
Ashland Milling Company, Inc., Ashland	10	0	10
Augusta Farm Supply, Inc., Augusta	1	0	1
Bagdad Roller Mills, Inc., Bagdad	2	0	2
Ballard County Coop., Inc., La Center	0	3	3
Ballards Tack and Supply, Paducah	2	0	2
Bardstown Mills, Inc., Bardstown	9	0	9
Barn Door Feed & Tack, Louisa	5	1	6
Benge Farm Supply, Inc., London	3	0	3
Berts Pet Center, Ashland	0	23	23
Big Lots - Henderson	0	3	3
Big Lots - Hopkinsville	0	11	11
Big Lots - Somerset	0	4	4
Bluegrass Barkery - Old Todds, Lexington	0	2	2
Bluegrass Barkery - Tiverton Way, Lexington	0	8	8
Bluegrass Farm Supply, Marion	20	0	20
Bluegrass Feed & Supply LLC, Hustonville	1	0	1
Bluegrass Seed & Fertilizer, Inc., Bardstown	2	0	2
Bowling Feed & Hardware, Inc., Catlettsburg	2	0	2
Bowlin's Feed, Inc., Albany	13	0	13
Bratcher Custom Feed LLC, Crab Orchard	7	0	7
Brays Feed - Tyner	2	0	2
Brodhead Farm Market, Brodhead	8	0	8
Brooksville Farm Supply, Brooksville	16	0	16
Brumfield Hay & Grain, Lexington	3	0	3
Buffalo Trace Distillery Inc, Frankfort	1	0	1
Burkesville Feed & Farm Supply, Burkesville	7	0	7
Burkman Feeds - Bowling Green	4	0	4
Burkman Feeds - Columbia	7	1	8
Burkman Feeds - Edmonton	4	0	4
Burkman Feeds - Hardinsburg	25	0	25
Burkman Feeds - Lebanon	4	0	4
Burkman Feeds - London	20	0	20
Burkman Feeds LLC - Danville	28	3	31
Burkman Feeds LLC - Glasgow	12	0	12
By Products Solutions Inc., Lebanon	5	0	5
Calhouns Farm & Pet, Madisonville	0	13	13
Calhouns Feed Service, Madisonville	14	0	14
Cargill Animal Nutrition - Winchester	15	1	16
Caudill Seed - Morehead	4	0	4
Cedar Valley Harness Shop, Hopkinsville	12	0	12
Central Crop Care, Crab Orchard	1	0	1
Central Farm Supply of KY, Inc., Louisville	22	4	26

Table 9. Report of sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
Central Farmers Supply, Inc., Greensburg	15	0	15
Champion Petfoods USA Inc, Auburn	0	2	2
Circle O Farm & Country Store, Sturgis	2	0	2
Clark's Grocery Feed & Seed, Rockholds	2	0	2
Clements AG Supply Inc, Springfield	13	0	13
Cobb Vantress Inc., Albany	3	0	3
Colson's Feed & Garden Supply, Manchester	3	0	3
Commonwealth Agri-Energy LLC, Hopkinsville	5	0	5
Connect Rental & Sales, Sharpsburg	5	0	5
Costco - Lexington, Lexington	0	1	1
Country Farm & Home - Monticello	3	6	9
CPC Commodities LLC, Fountain Run	34	0	34
Crittenden Farm Lawn & Garden, Crittenden	9	0	9
Custom Feed Mill LLC, Morganfield	21	7	28
D & R Metal and Ag Supply, Greenup	2	0	2
Darling Ingredients Inc - Butler	3	0	3
Darling Ingredients Inc - Henderson	4	1	5
Darling Ingredients Inc Tub Plant - Maysville	11	0	11
Day & Day Feed Mill, Columbia	16	7	23
Dinovite Inc., Crittenden	0	4	4
Dixie Feeds LLC, Falmouth	3	0	3
Dollar General - Scottsville	0	2	2
Dollar General Market #13158 - Jamestown	0	6	6
Dollar General Store - Rockfield	0	4	4
Dollar Tree - Columbia	0	7	7
Dollar Tree - Monticello	0	5	5
Dunhams Sports - Somerset	0	1	1
E & L Pets, Madisonville	1	16	17
East Side Animal Hospital, Owensboro	0	1	1
Enviroflight LLC, Maysville	2	0	2
Excel Equine, Louisville	28	0	28
Fairview General Store, Campbellsville	7	0	7
Falder's - Mayfield	0	2	2
Farmer & Sons, Barbourville	2	0	2
Farmers Choice Feed Mill, Kirksey	1	0	1
Farmers Feed Mills Inc, Lexington	27	0	27
Feeders Supply - Boston Road, Lexington	0	6	6
Feeders Supply - Elizabethtown	2	40	42
Feeders Supply - Shelbyville	0	4	4
Feeders Supply - South Lexington	0	4	4
Five Star Feed Services, Guthrie	11	0	11
Fleming County Farm Supply, Flemingsburg	5	0	5
Food Lion - Scottsville	0	10	10
Four Rivers Sport Horse Center LLC , Paducah	1	0	1
Frank L Hinton & Son, Plummers Landing	10	1	11
Gabbi's Boutique, Henderson	0	34	34
GHC Milling Co, Fordsville	14	0	14
Gilliam's Farm Supply, Olive Hill	7	0	7
Globe Farm Store, Olive Hill	3	0	3
Gold City Feed Mill, Franklin	0	3	3
Golden Rod Feeds, Liberty	4	0	4
Good Foods Co-Op - Lexington	0	2	2
Gordon's True Value Hardware, Philpot	5	0	5

Table 9. Report of sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
Green River Feed Mill Inc, Morgantown	15	0	15
Greenleaf Commodities, Danville	11	0	11
Greenpoint Ag, Hardinsburg	6	0	6
Hall's Feed and Farm, Nicholasville	3	0	3
Hancock County Farm Supply, Inc., Hawesville	5	0	5
Hardin County Milling Co Inc, Elizabethtown	18	0	18
Harper's Verona Feed and More, Verona	5	0	5
Hays Feed & Seed LLC, Smiths Grove	12	0	12
Heartbreak Ridge Farm Supply, Clay City	3	0	3
Heilman Hardware & Lumber Co., Falmouth	2	0	2
Hilander Feed Inc, Georgetown	1	0	1
Hinton Mills at Cynthiana	8	0	8
Hollywood Feed - Lexington	0	3	3
Hometown IGA - Somerset	0	6	6
Hoof N Paw Pet Supply, Richmond	0	15	15
Hoover Feed Mill, Scottsville	12	0	12
Hopkinsville Elevator, Russellville	2	0	2
Hopkinsville Elevator - Auburn	2	0	2
Howe Farm Supply Inc, Vanceburg	2	0	2
IGA - Mount Vernon, Mount Vernon	0	9	9
Internet Sales - Amazon.com Services, Inc., WA	0	31	31
Internet Sales - Chewy Inc, FL	2	31	33
Internet Sales - Ruff Greens, TX	0	1	1
J & H Feed & Tack Inc, Paintsville	18	0	18
J. A. Oldfield & Son, Inc., Mize	1	0	1
J.H. Fedders - Covington	1	3	4
Jabetown Mill, Ewing	12	0	12
Jackson County Farm Service, McKee	4	1	5
Janes Fertilizer & Farm Supply, Columbia	1	0	1
Jeffries Feed Seed & Supply Inc, Campbellsville	3	0	3
Jeremy Knight, Franklin	0	1	1
Jones Farm & Garden Supply, Whitley City	4	0	4
JSW Farm Supply, West Liberty	6	1	7
Kee's Farm Service & Supply, LLC., Grayson	7	2	9
Ken's Value Center, Berry	8	0	8
Kentuckiana Animal Clinic, Owensboro	0	2	2
Kentucky Organic Farm and Feed Inc, Guthrie	13	0	13
Kevil Crop Service dba Rudys Farm Center, Kevil	5	0	5
Keystone Foods - Franklin Feed Mill, Franklin	7	0	7
Knifley Ag Supply & Hardware, Campbellsville	4	0	4
Kroger - Elizabethtown	0	15	15
Kroger - Versailles, Versailles	0	17	17
Kroger #767 - Beaumont Lexington	0	4	4
Kroger #770 - Frederica St Owensboro	0	2	2
Kroger #900 - Russell Springs	0	12	12
Kroger Marketplace - Somerset	0	29	29
Lake Cumberland Feed & Farm Supply, LLC, Russell Springs	11	0	11
Lester J Stutzman Feed Mill, Marion	11	2	13
Logan County Animal Clinic, Russellville	0	2	2
Lone Star Farm & Home, Mt. Vernon	2	0	2
Lucky's Market, Louisville	0	1	1
Luttrull Feeds, Inc., Pembroke	14	1	15

Table 9. Report of sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
Lyon Feed Of West Liberty	6	0	6
Marion Feed Mill, Marion	18	0	18
Marshall County Coop, Benton	8	8	16
Mays Lick Mill, Mays Lick	10	0	10
Mazelin Feed Mill, Scottsville	25	0	25
McCauley Brothers Inc, Versailles	24	0	24
McRay Feed LLC, Harrodsburg	23	0	23
Meijer #168 - Cold Spring	0	5	5
Meijer #272 - Bowling Green	0	4	4
Meijer #288 - Owensboro	0	5	5
Menards #3290 - Owensboro	0	21	21
Menifee County Farm Supply, Frenchburg	2	0	2
MFS Alliance Inc, Edmonton	4	1	5
Midway Veterinary Hospital, Somerset	0	3	3
Myers Feed & Farm Supply, Corinth	5	0	5
Nancy Supply Company, Nancy	3	0	3
Nationwide Fence & Farmers Supply, Smithfield	2	0	2
Odom's Livestock Supply, Inc., Mayfield	9	0	9
Ollie's Bargain Outlet - Somerset	0	4	4
Orscheln Farm & Home - Murray	4	14	18
Owensboro Animal Hospital, Owensboro	0	2	2
Owensboro Grain Co LLC, Owensboro	10	0	10
Parker Farm Supply, Port Royal	6	0	6
Peck's Farm Supply, LLC - Sharpsburg	5	0	5
Perdue Farms Inc, Livermore	16	0	16
Performance Feed & Grain - Monticello	14	2	16
Performance Feeds - Caneyville	47	0	47
Performance Feeds - Lancaster	16	0	16
Pet Food Center - Paducah	0	13	13
Pet Supplies Plus - Independence	0	10	10
Pet Supplies Plus - Lexington	0	3	3
Pet Valu - Cold Spring	0	12	12
Pet Valu - Frankfort	0	5	5
Pet Valu - Maysville	0	4	4
Pet Valu - Palomar, Lexington	0	1	1
Pet Wants - Fort Thomas	0	2	2
Petco - Bowling Green	0	15	15
Petco - Frankfort	0	16	16
Petland - Ashland	0	6	6
Petland - Florence	0	1	1
Petsense - Danville	0	19	19
Petsense - Georgetown	0	6	6
Petsense - Glasgow	0	25	25
Petsense - London	2	15	17
Petsense - Mayfield	0	9	9
Petsense - Murray	0	8	8
Petsmart - Bowling Green	0	10	10
Petsmart - Florence	0	4	4
Petsmart - Nicholasville	0	2	2
Petsmart - Paducah	0	26	26
Petsmart - Pavillion Way Lexington	0	8	8
Petsmart - Richmond	0	16	16
Petsmart - Westport Rd Louisville, Louisville	0	5	5

Table 9. Report of sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
Petsmart #1968 - Owensboro	0	24	24
Petsmart #2344 - Newport	0	12	12
Petsmart #2384 - Ashland	0	9	9
Petsmart #2760 - Hopkinsville	0	25	25
Phillips Agri Farm, Campbellsville	1	0	1
Pilgrims Pride Corp, Mayfield	16	0	16
Pleasant View Agri-Service, Auburn	3	0	3
Poor Boy's Produce & Feed, Salyersville	1	0	1
Prewitt Farm Supply, Inc., Williamsburg	9	0	9
Priceless IGA - Russellville	0	4	4
Priceless IGA #491 - Bowling Green	0	3	3
Pro Solutions - Crofton	1	0	1
Quality Feeds Inc, Versailles	0	4	4
Ranchers LLC, Mayfield	1	0	1
Red River Building Supply, Grassy Creek	7	0	7
Ridley Block Operations Inc, Flemingsburg	20	0	20
Riffe's Big Barn Farm Store, Garrison	1	0	1
Rip's Farm Center - Morehead	2	0	2
Rip's Farm Center - Tollesboro	43	1	44
Roses - Somerset	0	3	3
Rose's Express - Russell Springs	0	7	7
Rural King Supply - Ashland	2	0	2
Rural King Supply - Georgetown	5	2	7
Rural King Supply - Glasgow	0	30	30
Rural King Supply - Madisonville	13	0	13
Rural King Supply - Maysville	11	0	11
Rural King Supply - Paducah	8	10	18
Rural King Supply - Pikeville	2	0	2
Rural King Supply - Powderly	0	14	14
Rural King Supply #12 - Owensboro	0	3	3
Russell County Feed Mill Inc, Russell Springs	7	0	7
Sam's Club #4876 - Bowling Green, Bowling Green	0	3	3
Save-A-Lot - Scottsville	0	3	3
Science Hill Milling Co, Science Hill	15	0	15
Seventy Feeds LLC, Eubank	4	0	4
Shucks Fence Co, Inc., Shelbyville	3	0	3
Sligo Feed Mill, Pendleton	10	2	12
Southern Kentucky Feed & Grain, Bowling Green	9	0	9
Southern States - Alexandria	3	0	3
Southern States - Bowling Green	7	0	7
Southern States - Campbellsville	3	0	3
Southern States - Carlisle	2	0	2
Southern States - Cynthiana	10	0	10
Southern States - Danville	4	0	4
Southern States - Elizabethtown	3	0	3
Southern States - Eminence	9	0	9
Southern States - Flemingsburg	18	0	18
Southern States - Frankfort	4	0	4
Southern States - Georgetown	1	0	1
Southern States - Harrodsburg	1	0	1
Southern States - Henderson	4	1	5
Southern States - Hopkinsville	7	0	7
Southern States - Liberty	9	0	9

Table 9. Report of sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
Southern States - London	12	0	12
Southern States - Maysville	13	0	13
Southern States - Owenton	1	0	1
Southern States - Owingsville	9	0	9
Southern States - Paris	11	0	11
Southern States - Somerset	10	0	10
Southern States - Springfield	1	0	1
Southern States - Stanford	1	0	1
Stephens Farm Supply, Inc., Olive Hill	3	0	3
Stick's Fencing & Supplies, Paris	1	0	1
Stockdale's, Bowling Green	1	9	10
Strite Custom Feeds LLC, Crab Orchard	8	1	9
Summersville Feed Mill, Summersville	2	0	2
Sunny Pastures Feed, Harrodsburg	1	0	1
Sureway #526 - Henderson	0	4	4
T & H Feed Service, Inc., Lebanon	8	2	10
Teds Feed Store, Middlesboro	2	0	2
The Feed Bucket, Simpsonville	6	3	9
The Hyland Company Inc, Ashland	11	16	27
Tomahawk Transport, Salyersville	9	0	9
Tractor Supply Company #1103 - Ashland	2	0	2
Tractor Supply Company #1128 - Russellville	0	2	2
Tractor Supply Company #1212 - Paris	2	0	2
Tractor Supply Company #1265 - Pikeville	3	0	3
Tractor Supply Company #1296 - Morehead	3	0	3
Tractor Supply Company #1298 - LaGrange	5	0	5
Tractor Supply Company #1392 - Alexandria	3	0	3
Tractor Supply Company #1396 - Middlesboro	1	2	3
Tractor Supply Company #1429 - Columbia	1	0	1
Tractor Supply Company #1442 - Murray	2	2	4
Tractor Supply Company #1460 - Cynthiana	1	0	1
Tractor Supply Company #1516 - Mt Sterling	0	1	1
Tractor Supply Company #1522 - Berea	4	3	7
Tractor Supply Company #1565 - Frankfort	2	0	2
Tractor Supply Company #1685 - Monticello	2	2	4
Tractor Supply Company #184 - Paducah	3	1	4
Tractor Supply Company #1956 - Owensboro	4	0	4
Tractor Supply Company #1957 - Owensboro	12	4	16
Tractor Supply Company #1968 - Beaver Dam	4	0	4
Tractor Supply Company #2021 - Liberty	4	0	4
Tractor Supply Company #2118 - Lebanon	5	1	6
Tractor Supply Company #2176 - Hardinsburg	5	0	5
Tractor Supply Company #2197 - Morganfield	6	0	6
Tractor Supply Company #2310 - Louisville	1	1	2
Tractor Supply Company #2312 - Carrollton	3	0	3
Tractor Supply Company #2355 - Benton	5	3	8
Tractor Supply Company #248 - Glasgow	0	25	25
Tractor Supply Company #358 - Georgetown	1	1	2
Tractor Supply Company #394 - Florence	2	0	2
Tractor Supply Company #451 - Maysville	1	0	1
Tractor Supply Company #489 - Shelbyville	3	1	4
Tractor Supply Company #705 - Hopkinsville	1	2	3
Tractor Supply Company #749 - Williamstown	0	2	2

Table 9. Report of sampling locations in 2020.

Business Name	Sample # by Feed Type		
	Livestock & Ingredient	Pet and Speciality	Total
Trader Joe's - Lexington	0	2	2
Trader Joe's - Louisville	0	2	2
Tri-County Fertilizer Co., Inc., Richmond	9	0	9
Trigg County Cattleman Association, Cadiz	4	0	4
Tyson Foods Feed Mill, Sebree	28	0	28
United Livestock Commodities, Mayfield	7	0	7
Valley Farm Center Inc, Monticello	4	0	4
Walgreens #7685 - Bowling Green	0	1	1
Walmart #1048 - Williamsburg	1	0	1
Walmart #1190 - Berea	1	7	8
Walmart #1234 - Monticello	0	12	12
Walmart #1675 - Lebanon	1	10	11
Walmart #282 - Franklin	0	5	5
Walmart #3363 - Owensboro	1	6	7
Walmart #825 - Stanford	0	8	8
Warner Fertilizer - Liberty	1	0	1
Warner Fertilizer - Monticello	1	0	1
Warner Fertilizer - Nancy	1	1	2
West Feeds, Barbourville	2	0	2
Whole Foods Market - Lexington	0	3	3
Whole Foods Market - Louisville	0	4	4
Willard Milling, Inc., Grayson	21	12	33
Winchester Feeds Inc, Winchester	8	0	8
Winchester Nutrition, Winchester	4	0	4
Woodford Feed Co Inc, Versailles	20	0	20
Yoders Feed & Supply, Russellville	15	1	16
Totals	1758	1089	2847

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
4Legz LCC, Centralia, WA	1	1	100.0%	3	3	100.0%	
Adairville Feed Mill #2, Russellville, KY	14	11	78.6%	79	75	94.9%	C Protein (1) Salt (2) Zn (1)
Adairville Feed Mill, Adairville, KY	11	10	90.9%	62	61	98.4%	Salt (1)
ADM Alliance Nutrition Inc, Quincy, IL	16	13	81.3%	131	126	96.2%	AH Fat (1) Ca (1) P (1) Salt (1) Se (1)
ADM Milling, Overland Park, KS	1	1	100.0%	3	3	100.0%	
ADM, Tampa, FL	1	1	100.0%	4	4	100.0%	
Agri-King, Inc., Fulton, IL	1	1	100.0%	5	5	100.0%	
Ainsworth Pet Nutrition, Meadville, PA	8	8	100.0%	92	92	100.0%	
Albany Building Center, Inc., Albany, KY	1	0	0.0%	8	7	87.5%	Se (1)
Aldi Inc, Batavia, IL	11	9	81.8%	101	98	97.0%	Ca (1) P (2)
Allen County Farmers Service, Inc., Scottsville, KY	1	0	0.0%	7	6	85.7%	Ca (1)
Alltech Inc - Nicholasville, Nicholasville, KY	1	1	100.0%	1	1	100.0%	
American Journey LLC, Dania Beach, FL	3	3	100.0%	41	41	100.0%	
American Proteins Inc, Hanceville, AL	1	1	100.0%	2	2	100.0%	
American Tuna Inc, Bonita, CA	1	1	100.0%	13	13	100.0%	
Anderson's Marathon Ethanol LLC, Greenville, OH	1	1	100.0%	4	4	100.0%	
Archer Daniel Midland Co, Decatur, IL	4	4	100.0%	11	11	100.0%	
Arcus Hunting LLC, Covington, GA	3	2	66.7%	10	9	90.0%	Fat (1)
Ark Naturals, Naples, FL	2	2	100.0%	5	5	100.0%	
Arnold Feed & Seed, Campbellsville, KY	6	3	50.0%	37	33	89.2%	C Protein (2) Zn (2)
Arthur Pet Products, Salisbury, MD	6	5	83.3%	14	12	85.7%	C Protein (1) AH Fat (1)
Ashland Milling Company, Inc., Ashland, KY	7	5	71.4%	26	24	92.3%	C Protein (2)
Associated Wholesale Grocers, Kansas City, KS	12	10	83.3%	123	121	98.4%	AH Fat (1) Ca:P (1)
Augusta Coop Farm Bureau, Staunton, VA	2	0	0.0%	22	16	72.7%	Ca (2) P (2) K (1) Zn (1)
Authority Pet Food Co, Phoenix, AZ	6	5	83.3%	81	80	98.8%	P (1)
Bagdad Roller Mills, Inc., Bagdad, KY	50	32	64.0%	339	313	92.3%	C Protein (11) Fat (2) C Fiber (4) AD Fiber (2) ND Fiber (1) Cu (3) Se (1) Na (2)
Bagel House LLC, Lake Zurich, IL	1	0	0.0%	2	1	50.0%	Moisture (1)
Bardstown Mills, Inc., Bardstown, KY	21	5	23.8%	131	105	80.2%	C Protein (15) Fat (1) AD Fiber (1) Ca (1) P (3) Cu (2) K (1) Zn (1) Vit A (1)
Barkworthies, Richmond, VA	1	1	100.0%	2	2	100.0%	
Barton Brands Ltd, Bardstown, KY	9	5	55.6%	27	23	85.2%	C Protein (4)

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Bayer Healthcare LLC, Shawnee Mission, KS	1	0	0.0%	12	10	83.3%	K (1) Se (1)
BB USA Inc., Mississauga, ON	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Bear and The Rat, Denver, CO	1	1	100.0%	1	1	100.0%	
Bears Bone Bakery, Evansville, IN	1	1	100.0%	2	2	100.0%	
Bell Rock Grower Inc, San Marcos, CA	1	1	100.0%	2	2	100.0%	
Bench & Field Pet Foods LLC, Miskawaka, IN	1	1	100.0%	12	12	100.0%	
Benefit Pet Products, Portland, OR	1	1	100.0%	3	3	100.0%	
Bentrei Fertilizer Company LLC, Tulsa, OK	1	1	100.0%	3	3	100.0%	
Best Feeds, Pinckneyville, IL	3	2	66.7%	38	37	97.4%	AH Fat (1)
Big & J Industries Inc, Grand Island, NE	1	1	100.0%	7	7	100.0%	
Big Creek Foods LLC, Gainsville, GA	1	1	100.0%	2	2	100.0%	
Big Heart Pet Brands, Pittsburgh, PA	8	7	87.5%	66	64	97.0%	Cu (1) Fe (1)
Big K Mills, Inc., Fort Recovery, OH	1	1	100.0%	1	1	100.0%	
Bil Jac Foods Inc, Medina, OH	1	1	100.0%	13	13	100.0%	
Biozyme Incorporated, St Joseph, MO	3	3	100.0%	32	32	100.0%	
Bixbi Pet, Boulder, CO	3	2	66.7%	28	27	96.4%	Ca:P (1)
Bloomington Specialty Products, Bloomington, IN	1	1	100.0%	1	1	100.0%	
Blue Buffalo Co LTD, Wilton, CT	23	21	91.3%	218	216	99.1%	AH Fat (2)
Bluebonnet Feeds, Ardmore, OK	1	0	0.0%	8	7	87.5%	Cu (1)
Bluegrass Farm Supply, Marion, KY	16	16	100.0%	109	109	100.0%	
Bluegrass Feed & Supply LLC, Hustonville, KY	2	1	50.0%	10	9	90.0%	Ca (1)
Bluegrass Seed & Fertilizer, Inc., Bardstown, KY	2	2	100.0%	13	13	100.0%	
Bocce's Bakery, Brooklyn, NY	1	1	100.0%	2	2	100.0%	
Boehringer-Ingelheim Vetmedica, Inc., St. Joseph, MO	2	2	100.0%	4	4	100.0%	
Boss Buck, Grand Prairie, TX	3	2	66.7%	18	17	94.4%	C Protein (1)
Boss Dog Brands Inc., Duval, WA	3	0	0.0%	28	24	85.7%	C Protein (2) AH Fat (2)
Boston Treat House, Boyton Beach, FL	1	0	0.0%	3	2	66.7%	AH Fat (1)
Bow Wow Bakery, Wayzata, MN	1	1	100.0%	3	3	100.0%	
Bowlin's Feed, Inc., Albany, KY	6	5	83.3%	46	45	97.8%	Vit A (1)
Bowman Milling, Pocahontas, MO	2	0	0.0%	12	10	83.3%	Zn (2)
Bratcher Ag LLC, Crab Orchard, KY	7	3	42.9%	45	39	86.7%	Fat (2) Ca (2) K (1) Na (1)
Brodhead Farm Market, Brodhead, KY	5	5	100.0%	28	28	100.0%	
Brooksville Farm Supply, Brooksville, KY	13	7	53.8%	69	62	89.9%	C Protein (3) Ca (3) Cu (1)
Buckley Bros Inc, Wilmington, OH	3	2	66.7%	22	21	95.5%	Salt (1)
Buckley Pet, Boulder, CO	3	1	33.3%	29	25	86.2%	C Protein (2) AH Fat (1) P (1)
Buddy Biscuits, Chesterfield, MO	1	0	0.0%	2	1	50.0%	C Protein (1)
Buffalo Trace Distillery Inc, Frankfort, KY	3	3	100.0%	9	9	100.0%	
Bunge NA (East) LLC, Morristown, IN	9	9	100.0%	18	18	100.0%	
Bunge NA Inc, Cairo, IL	11	9	81.8%	23	20	87.0%	C Protein (1) C Fiber (2)

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Burkman Feeds LLC, Danville, KY	58	48	82.8%	508	497	97.8%	Ca (1) P (2) Salt (3) Co (1) Cu (1) Se (2) S (1)
Burkman Feeds LLC, Glasgow, KY	12	11	91.7%	57	56	98.2%	Ca (1)
Burkman Feeds, Columbia, KY	4	2	50.0%	28	26	92.9%	Salt (1) K (1)
Burkman Feeds, Harned, KY	12	3	25.0%	82	71	86.6%	C Protein (3) Fat (2) Salt (3) Cu (3)
Burkman Feeds, Bowling Green, KY	9	7	77.8%	45	43	95.6%	C Protein (2)
Burkman Feeds, London, KY	13	8	61.5%	89	84	94.4%	C Protein (2) Fat (2) Ca (1)
Busch Agricultural Resources, Jonesboro, AR	2	2	100.0%	6	6	100.0%	
By Products Solutions Inc., Lebanon, KY	1	1	100.0%	5	5	100.0%	
C & S Products Co Inc, Fort Dodge, IA	4	3	75.0%	8	7	87.5%	AH Fat (1)
Calcium Products, Swayzee, IN	1	1	100.0%	1	1	100.0%	
Calhoun Feed Service, Madisonville, KY	3	3	100.0%	14	14	100.0%	
Can Am Pet Treats Inc, Vernon, BC	3	3	100.0%	6	6	100.0%	
Canadian Jerky Co. Ltd, Surrey, BC	1	0	0.0%	2	1	50.0%	AH Fat (1)
Canidae Corporation, Norco, CA	7	7	100.0%	89	89	100.0%	
Cardinal Laboratories Inc, Azusa, CA	5	4	80.0%	21	19	90.5%	AH Fat (1) Ca:P (1)
Cargill Animal Nutrition, Minneapolis, MN	126	94	74.6%	1041	1008	96.8%	C Protein (22) P (1) Fe (2) Se (1) Na (4) S (1) Vit A (2)
Cargill Incorporated, Minneapolis, MN	7	6	85.7%	20	19	95.0%	C Fiber (1)
Carne4 Inc, Toronto, ON	1	0	0.0%	11	3	27.3%	C Protein (1) AH Fat (1) Ca (1) P (1) Fe (1) Mn (1) Na (1) Zn (1)
Carnivore Meat Co LLC, Green Bay, WI	1	0	0.0%	12	11	91.7%	AH Fat (1)
Castor & Pollux Pet Works, Amarillo, TX	5	4	80.0%	53	52	98.1%	AH Fat (1)
Cat-Man-Do, Bellevue, WA	1	0	0.0%	3	2	66.7%	AH Fat (1)
Central Aquatic, Franklin, WI	2	1	50.0%	4	3	75.0%	C Protein (1)
Central Farm & Garden, Wooster, OH	1	0	0.0%	1	0	0.0%	C Protein (1)
Central Farm Supply of KY, Inc., Louisville, KY	27	15	55.6%	177	164	92.7%	C Protein (5) Ca (3) Salt (4) Zn (1)
Central Farmers Supply, Inc., Greensburg, KY	12	9	75.0%	56	53	94.6%	C Protein (2) Ca (1)
Champion Petfoods USA Inc, Auburn, KY	3	3	100.0%	38	38	100.0%	
Chestnut Mountain Feed Co. Inc., Concord, VA	1	0	0.0%	2	1	50.0%	AH Fat (1)
Chewy Inc, Dania Beach, FL	1	1	100.0%	14	14	100.0%	

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Chicken Soup for the Pet Lover's Soul, Cos Cob, CT	2	2	100.0%	15	15	100.0%	
CHS Inc, Inver Grove Heights, MN	11	9	81.8%	43	41	95.3%	C Fiber (2)
Clark's Grocery Feed & Seed, Rockholds, KY	2	2	100.0%	10	10	100.0%	
Claudia's Canine Bakery, Maumelle, AR	5	3	60.0%	10	8	80.0%	C Protein (1) AH Fat (1)
Clements AG Supply Inc, Springfield, KY	4	2	50.0%	22	20	90.9%	K (2)
Cole's Wild Bird Products Co, Kennesaw, GA	1	0	0.0%	2	1	50.0%	AH Fat (1)
Commonwealth Agri-Energy LLC, Hopkinsville, KY	1	1	100.0%	4	4	100.0%	
Complete Catered Concepts, Omaha, NE	1	1	100.0%	12	12	100.0%	
Consolidated Grain & Barge, Mt Vernon, IN	10	10	100.0%	20	20	100.0%	
Consumers Supply Distributing, North Sioux City, SD	4	4	100.0%	20	20	100.0%	
Correct Foods, Inc., Cynthiana, KY	1	1	100.0%	12	12	100.0%	
Costco Wholesale Corporation, Seattle, WA	1	1	100.0%	14	14	100.0%	
Country Acres Feed Co Inc, Brentwood, MO	3	2	66.7%	19	18	94.7%	Zn (1)
CPC Commodities LLC, Fountain Run, KY	69	51	73.9%	580	552	95.2%	C Protein (9) C Fiber (2) AD Fiber (3) ND Fiber (4) Ca (1) Cu (2) Se (2) Zn (1) Vit A (1) Monensin (3)
Cullman Blend Mill, Cullman, AL	6	6	100.0%	33	33	100.0%	
Custom Feed Mill LLC, Morganfield, KY	2	2	100.0%	13	13	100.0%	
D & D Commodities, Stephen, MN	3	0	0.0%	6	3	50.0%	AH Fat (3)
Darling International Inc, Irving, TX	10	8	80.0%	24	22	91.7%	AH Fat (2)
Dave's Pet Food, Agawam, MA	2	2	100.0%	26	26	100.0%	
Dawson Family Feed & Seed, Russellville, KY	16	11	68.8%	132	127	96.2%	C Protein (2) Fat (1) Salt (1) Zn (1)
Day & Day Feed Mill, Columbia, KY	4	4	100.0%	22	22	100.0%	
Dechra Veterinary Products, Overland Park, KS	1	1	100.0%	2	2	100.0%	
Deer:30, Madisonville, KY	2	1	50.0%	9	7	77.8%	Ca (1) P (1)
Diageo/Bulleit Distilling, Shelbyville, KY	1	1	100.0%	3	3	100.0%	
Diamond Pet Foods Co, Meta, MO	5	5	100.0%	50	50	100.0%	
Dick Van Patten's, Burbank, CA	6	5	83.3%	66	64	97.0%	AH Fat (1) Ca:P (1)
Diggin Your Dog, Reno, NV	2	2	100.0%	4	4	100.0%	
Dinovite Inc., Crittenden, KY	4	0	0.0%	12	8	66.7%	AH Fat (4)
Dixie Feeds LLC, Falmouth, KY	1	1	100.0%	1	1	100.0%	
Dogs Love Us LLC, Naples, FL	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Dolgencorp LLC, Goodlettsville, TN	6	6	100.0%	66	66	100.0%	
Durvet Inc, Blue Springs, MO	1	0	0.0%	2	1	50.0%	Ash (1)
DZA Brands LLC, Salisbury, NC	2	2	100.0%	26	26	100.0%	
Earth Animal, Westport, CT	2	0	0.0%	8	4	50.0%	C Protein (1) AH Fat (2) Vit A (1)
Eggland's Best, LLC, Malvern, PA	1	0	0.0%	12	11	91.7%	Fe (1)
Einstein Pets LLC, Sarasota, FL	1	1	100.0%	2	2	100.0%	
Enviroflight LLC, Maysville, KY	2	1	50.0%	7	6	85.7%	AH Fat (1)
Equus Magnificus, White Bear Lake, MN	1	1	100.0%	2	2	100.0%	

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Essential Living Minerals & Supplements, Russell Springs, KY	1	0	0.0%	5	3	60.0%	C Protein (1) Ca (1)
Ethical Product Inc, Bloomfield, NJ	1	1	100.0%	2	2	100.0%	
Eurocan Pet Products, New Hamburg, ON	2	1	50.0%	4	3	75.0%	AH Fat (1)
Evangers Dog & Cat Food Co Inc, Wheeling, IL	1	0	0.0%	13	11	84.6%	Ca (1) P (1)
Evolved Habitats, New Roads, LA	3	2	66.7%	25	24	96.0%	S (1)
Excel Equine, Louisville, KY	21	18	85.7%	206	203	98.5%	AD Fiber (1) ND Fiber (1) Cu (1)
Exclusively Pet Inc, Milwaukee, WI	3	3	100.0%	6	6	100.0%	
F M Browns Sons Inc, Sinking Spring, PA	3	1	33.3%	9	7	77.8%	C Protein (2)
Faithway Feed Co Inc, Guntersville, AL	4	4	100.0%	43	43	100.0%	
Farm House, Milton, WV	3	0	0.0%	20	13	65.0%	Ca (3) P (3) Salt (1)
Farmers Choice Feed Mill, Kirksey, KY	1	1	100.0%	6	6	100.0%	
Farmers Feed Mills Inc, Lexington, KY	25	24	96.0%	225	224	99.6%	Se (1)
Farmina Pet Foods, New York, NY	1	0	0.0%	13	12	92.3%	P (1)
Feed Products & Service Co, St Louis, MO	3	3	100.0%	4	4	100.0%	
Feed Solutions, Arden Hills, MN	9	8	88.9%	55	54	98.2%	Zn (1)
Feeders Supply - Research Dr, Louisville, KY	1	1	100.0%	4	4	100.0%	
Finley's, Eden Prairie, MN	1	1	100.0%	2	2	100.0%	
Five Star Feed Services, Guthrie, KY	4	1	25.0%	31	28	90.3%	Mg (1) Se (2)
FlavorTek, Oldsmar, FL	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Florida Marine Research, Sarasota, FL	2	2	100.0%	2	2	100.0%	
FLP LLC, Tempe, AZ	1	0	0.0%	2	1	50.0%	C Protein (1)
Fluker Farms Inc, Port Allen, LA	2	2	100.0%	8	8	100.0%	
Foodhold USA, LLC, Landover, MD	6	6	100.0%	62	62	100.0%	
Foppers Pet Treat Bakery, Logansport, IN	1	1	100.0%	2	2	100.0%	
Formax Feeds, Danville, KY	23	18	78.3%	209	202	96.7%	C Protein (2) Salt (2) Se (2) S (1)
Frank L Hinton & Son, Plummers Landing, KY	31	22	71.0%	216	199	92.1%	C Protein (5) Fat (1) P (1) Salt (1) Cu (2) Mg (1) Mn (1) Se (2) Zn (1) Vit A (1) Monensin (1)
Fresh Pet, Secaucus, NJ	1	1	100.0%	13	13	100.0%	
Fromm Family Foods LLC, Mequon, WI	6	6	100.0%	53	53	100.0%	
Full Life Company, Phoenix, AZ	1	1	100.0%	1	1	100.0%	
Furst-McNess Co, Freeport, IL	2	2	100.0%	12	12	100.0%	
Gaines Family Farmstead, Hueytown, AL	4	0	0.0%	7	3	42.9%	C Protein (4)
Garmon Corp, Temecula, CA	2	1	50.0%	6	5	83.3%	AH Fat (1)
Gavilon Ingredients LLC, Omaha, NE	2	2	100.0%	6	6	100.0%	
Gentle Giants Products Inc., Norco, CA	2	1	50.0%	26	24	92.3%	Ca (1) P (1)

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	Total	# Passed	% Passed	Total	# Passed	% Passed	
GHC Milling Co, Fordsville, KY	13	9	69.2%	90	85	94.4%	C Protein (2) Cu (1) Zn (2)
Global Agri-Trade, Rancho Dominguez, CA	1	1	100.0%	1	1	100.0%	
Global Harvest Birdseed, Seattle, WA	6	1	16.7%	14	7	50.0%	AH Fat (5) Ca (1) Zn (1)
Global One Pet, Aliso Viejo, CA	7	5	71.4%	57	52	91.2%	Ca (2) P (1) Ca:P (2)
Golden Rod Feeds, Liberty, KY	5	4	80.0%	22	21	95.5%	C Protein (1)
Goldenfeast Inc, Phoenixville, PA	2	0	0.0%	5	3	60.0%	C Protein (1) AH Fat (1)
Gott Pet Products LLC, St Francis, WI	3	3	100.0%	6	6	100.0%	
Grain Processing Corp, Washington, IN	10	9	90.0%	32	31	96.9%	C Protein (1)
Grandma Lucy's, Rancho Santa Margarita, CA	4	2	50.0%	8	6	75.0%	C Protein (1) AH Fat (1)
Grandma Mae's Country Naturals, New York, NY	2	2	100.0%	26	26	100.0%	
Green Pet Organics, Union City, CA	3	3	100.0%	8	8	100.0%	
Green Plains Obion, Rives, TN	2	2	100.0%	6	6	100.0%	
Green River Feed Mill Inc, Morgantown, KY	11	10	90.9%	51	50	98.0%	C Protein (1)
Greenbrier International, Chesapeake, VA	5	5	100.0%	32	32	100.0%	
Greenleaf Commodities, Danville, KY	10	7	70.0%	44	41	93.2%	C Protein (3)
Greenpoint Ag, Hardinsburg, KY	3	3	100.0%	7	7	100.0%	
Gro-Tec Inc, Modoc, IN	6	3	50.0%	15	12	80.0%	C Protein (3)
Grubibly Farms Inc, Doraville, GA	1	0	0.0%	4	3	75.0%	Ca (1)
Gulley Crank, Manchester, OH	1	0	0.0%	5	3	60.0%	C Protein (1) Salt (1)
Guntersville Marine, Guntersville, AL	1	1	100.0%	3	3	100.0%	
Halo-Purely for Pets, Tampa, FL	3	3	100.0%	39	39	100.0%	
Hansen-Mueller Co, Omaha, NE	5	5	100.0%	12	12	100.0%	
Happy Hen Treats, Boerne, TX	1	0	0.0%	5	4	80.0%	Ca (1)
Happy Howies Inc, Detroit, MI	1	1	100.0%	2	2	100.0%	
Happy Jack Inc, Snow Hill, NC	1	0	0.0%	13	12	92.3%	C Protein (1)
Hardin County Milling Co Inc, Elizabethtown, KY	16	10	62.5%	78	71	91.0%	C Protein (6) Salt (1)
Hart Agstrong LLC, Trenton, KY	1	0	0.0%	3	2	66.7%	Fat (1)
Hartz Mountain Corporation, Secaucus, NJ	4	3	75.0%	10	9	90.0%	AH Fat (1)
Hays Feed & Seed LLC, Smiths Grove, KY	5	0	0.0%	43	34	79.1%	C Protein (2) Ca (5) Cu (1) Zn (1)
Health Extension Pet Care, Deer Park, NY	3	3	100.0%	29	29	100.0%	
Healthy Pets Inc., Union City, CA	1	1	100.0%	2	2	100.0%	
Heartbreak Ridge Farm Supply, Clay City, KY	1	0	0.0%	5	4	80.0%	C Protein (1)
Henry Schein Animal Health, Dublin, OH	1	1	100.0%	2	2	100.0%	
Herbsmith Inc, Hartland, WI	1	0	0.0%	2	1	50.0%	AH Fat (1)
Herd Evolution, Richmond, KY	2	0	0.0%	22	20	90.9%	Mg (2)
Hero Pet Brands LLC, Dallas, TX	1	1	100.0%	2	2	100.0%	
Higgins Group Corporation, Miami, FL	3	3	100.0%	7	7	100.0%	
Hikari Sales USA Inc, Hayward, CA	2	2	100.0%	7	7	100.0%	
Hilander Feed Inc, Georgetown, KY	1	1	100.0%	2	2	100.0%	
Hills Pet Nutrition Inc, Topeka, KS	10	10	100.0%	58	58	100.0%	
Hillside Farms, Irvine, CA	1	0	0.0%	3	2	66.7%	AH Fat (1)
Himalayan Corporation, Mukilteo, WA	1	1	100.0%	1	1	100.0%	
Hirsch Feed & Farm Supply Inc., Thayer, MO	5	4	80.0%	38	37	97.4%	Cu (1)

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Hollywood Feed LLC, Memphis, TN	1	1	100.0%	2	2	100.0%	
Hoover Feed Mill, Scottsville, KY	12	10	83.3%	74	72	97.3%	Fat (1) Ca (1)
HorseGuard, Redmond, OR	1	0	0.0%	5	4	80.0%	Ca (1)
Hound & Gatos Pet Foods Corp, Atlanta, GA	1	1	100.0%	13	13	100.0%	
Hubbard Feeds Inc, Hankato, MN	6	5	83.3%	51	50	98.0%	Se (1)
Huron Commodities, Clinton, ON	3	3	100.0%	8	8	100.0%	
I & W Research, West Vancouver, BC	1	0	0.0%	3	2	66.7%	AH Fat (1)
I and Love and You, Boulder, CO	5	5	100.0%	62	62	100.0%	
Iams Food Company, Mason, OH	1	1	100.0%	13	13	100.0%	
IMS Pet Industries, Wood Ridge, NJ	5	5	100.0%	10	10	100.0%	
Inaba Foods (USA) Inc, Torrance, CA	2	2	100.0%	4	4	100.0%	
Innovation Pet Inc., Huntington Beach, CA	1	1	100.0%	3	3	100.0%	
Inter American, Cincinnati, OH	9	8	88.9%	63	62	98.4%	C Protein (1)
International Pet Foods Co, Miami, FL	1	1	100.0%	13	13	100.0%	
Intl Pet Supplies/Distributing, San Diego, CA	6	5	83.3%	57	56	98.2%	C Protein (1)
iVet, Parkville, MO	1	1	100.0%	2	2	100.0%	
J & C Pet Supply, Lakewood Township, NJ	1	0	0.0%	3	1	33.3%	AH Fat (1) Ash (1)
J & H Feed & Tack Inc, Paintsville, KY	15	11	73.3%	99	95	96.0%	C Protein (1) Ca (2) Salt (1)
J E Ronicker Labs Inc, West Milton, OH	1	1	100.0%	10	10	100.0%	
Jabetown Mill, Ewing, KY	2	2	100.0%	2	2	100.0%	
JAC Pet Nutrition Gourmet, Olathe, KS	1	0	0.0%	4	2	50.0%	C Protein (1) AH Fat (1)
JBS USA LLC, Souderton, PA	2	0	0.0%	8	4	50.0%	AH Fat (2) P (2)
Jeffries Feed Seed & Supply Inc, Campbellsville, KY	2	1	50.0%	8	7	87.5%	C Protein (1)
Jenkins Feed Service, Adams, TN	9	2	22.2%	70	58	82.9%	C Protein (2) Fat (2) Ca (2) P (3) Cu (1) Zn (2)
Jim Beam Brands Co, Clermont, KY	3	3	100.0%	9	9	100.0%	
Jiminy's LLC, Berkley, CA	2	1	50.0%	4	3	75.0%	AH Fat (1)
Jones Naturals LLC, Rockford, IL	2	1	50.0%	4	2	50.0%	C Protein (1) AH Fat (1)
Joy Pet Foods, Pinckneyville, IL	3	3	100.0%	30	30	100.0%	
JRB Foods Inc, Sharon Center, OH	1	1	100.0%	2	2	100.0%	
JSW Farm Supply, West Liberty, KY	6	2	33.3%	35	31	88.6%	C Protein (4)
Just Food for Dogs LLC, Irvine, CA	1	1	100.0%	13	13	100.0%	
K9 Granola Factory, Thomasville, PA	3	3	100.0%	6	6	100.0%	
K9 Natural Food, Christchurch, NZ	1	1	100.0%	2	2	100.0%	
Kalmbach Feeds Inc, Upper Sandusky, OH	35	35	100.0%	354	354	100.0%	
Kasel Industries, Denver, CO	1	1	100.0%	3	3	100.0%	
Kaytee Products Inc, Chilton, WI	12	10	83.3%	29	27	93.1%	AH Fat (2)
KDR Pet Treats LLC, Fresno, CA	2	0	0.0%	4	2	50.0%	C Protein (2)
Kee's Farm Service & Supply, LLC., Grayson, KY	1	1	100.0%	4	4	100.0%	
Kelly Foods Corporation, Medina, OH	7	7	100.0%	80	80	100.0%	
Kent Nutrition Group Inc, Muscatine, IA	10	7	70.0%	107	103	96.3%	K (2) Se (1) Vit A (1)
Kentucky Equine Research Inc, Versailles, KY	3	3	100.0%	23	23	100.0%	

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Kentucky Nutrition Service Inc, Nancy, KY	9	5	55.6%	83	70	84.3%	AH Fat (1) Ca (3) Co (1) Cu (2) Mg (3) K (1) Se (1) S (1)
Kentucky Organic Farm and Feed Inc, Guthrie, KY	13	12	92.3%	74	73	98.6%	C Protein (1)
Kentucky Performance Products, Versailles, KY	1	1	100.0%	5	5	100.0%	
Kettle Craft Pet Products, Kelowna, BC	1	0	0.0%	4	2	50.0%	Mg (1) Ash (1)
Keys Manufacturing Co., Inc., Paris, IL	1	1	100.0%	3	3	100.0%	
Knights Outdoors, Franklin, KY	2	0	0.0%	20	11	55.0%	Ca (1) Cu (2) Mn (2) Se (2) Zn (2)
Koch Chinchilla Ranch, Cincinnati, OH	1	0	0.0%	5	4	80.0%	C Protein (1)
Kona's Chips, Modesto, CA	1	1	100.0%	3	3	100.0%	
Kong Company, Golden, CO	3	3	100.0%	8	8	100.0%	
Kreamer Feed Inc, Kreamer, PA	1	1	100.0%	4	4	100.0%	
Kroger, Cincinnati, OH	15	13	86.7%	129	127	98.4%	Cu (2)
Lafeber Ccompany, Cornell, IL	2	2	100.0%	4	4	100.0%	
Lake Cumberland Feed & Farm Supply, LLC, Russell Springs, KY	4	2	50.0%	28	23	82.1%	C Protein (1) Ca (1) Cu (2) Zn (1)
Land O'Lakes Animal Milk Products Co., Arden Hills, MN	1	1	100.0%	6	6	100.0%	
Landus Cooperative, Ralston, IA	1	1	100.0%	4	4	100.0%	
Lebanon Seaboard Corporation, Lebanon, PA	1	0	0.0%	2	1	50.0%	AH Fat (1)
Leo Gabbard, West Harrison, IN	1	1	100.0%	3	3	100.0%	
Lester J Stutzman Feed Mill, Marion, KY	8	7	87.5%	52	51	98.1%	P (1)
Lotus Pet Food Inc, Torrance, CA	1	1	100.0%	3	3	100.0%	
Loving Pets Products, Cranbury, NJ	6	2	33.3%	14	9	64.3%	C Protein (4) AH Fat (1)
Lowes Pellets & Grain Inc, Greensburg, IN	1	1	100.0%	4	4	100.0%	
Lucky Paws LLC, Cincinnati, OH	1	0	0.0%	2	1	50.0%	C Protein (1)
Lucy Pet Products LLC, Westlake Village, CA	1	0	0.0%	3	2	66.7%	AH Fat (1)
Luttrull Feeds, Inc., Pembroke, KY	6	5	83.3%	49	47	95.9%	Salt (1) Cu (1)
Lystn LLC, Fleetwood, PA	1	1	100.0%	1	1	100.0%	
Magnolia International Services, Atlanta, GA	1	0	0.0%	1	0	0.0%	C Protein (1)
Majesty's Animal Nutrition, Redmond, OR	2	2	100.0%	7	7	100.0%	
Manna Pro Products LLC, Chesterfield, MO	7	6	85.7%	43	42	97.7%	Na (1)
Mars Fishcare North America Inc, Chalfont, PA	1	1	100.0%	2	2	100.0%	
Mars Petcare US Inc, Franklin, TN	30	28	93.3%	281	278	98.9%	Ca (1) P (2)
Marshall Pet Products, Wolcott, NY	3	3	100.0%	6	6	100.0%	
Mar-Vo Mineral Co Inc, Osseo, MI	2	0	0.0%	6	4	66.7%	Ca (2)
Mays Lick Mill, Mays Lick, KY	2	2	100.0%	2	2	100.0%	
Mazelin Feed Mill, Scottsville, KY	25	20	80.0%	157	152	96.8%	C Protein (4) Cu (1)
McCauley Brothers Inc, Versailles, KY	25	22	88.0%	251	248	98.8%	C Protein (3)
McRay Feed LLC, Harrodsburg, KY	26	21	80.8%	118	113	95.8%	C Protein (4) Zn (1)

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Meijer Inc, Grand Rapids, MI	5	4	80.0%	12	11	91.7%	C Protein (1)
Menard Inc, Eau Claire, WI	4	3	75.0%	19	18	94.7%	AH Fat (1)
Mennel Milling Company, Fostoria, OH	1	1	100.0%	3	3	100.0%	
Merrick Pet Care Inc, Amarillo, TX	11	8	72.7%	119	113	95.0%	C Protein (1) Ca (2) P (1) Ash (1) Ca:P (1)
MFS Alliance Inc, Edmonton, KY	2	2	100.0%	5	5	100.0%	
MGPI of Indiana LLC, Lawrenceburg, IN	4	0	0.0%	12	8	66.7%	Fat (4)
Mid America Pet Food LLC, Mt Pleasant, TX	5	2	40.0%	68	65	95.6%	Ca (2) P (1)
Midwestern Pet Foods Inc, Evansville, IN	8	6	75.0%	71	68	95.8%	C Protein (1) AH Fat (1) Ca:P (1)
Milk Products, Chilton, WI	2	1	50.0%	13	12	92.3%	Zn (1)
Mills and Sons Farm LLC, Dover, KY	1	1	100.0%	2	2	100.0%	
Milo's Kitchen LLC, Pittsburgh, PA	5	1	20.0%	11	7	63.6%	AH Fat (4)
Miracle Corp Products, Dayton, OH	2	1	50.0%	4	2	50.0%	C Protein (1) AH Fat (1)
Monnig Brothers, Ironton, OH	2	2	100.0%	8	8	100.0%	
Mosaic Global Sales LLC, Lithia, FL	2	2	100.0%	5	5	100.0%	
Mountain Materials, Castlewood, VA	1	1	100.0%	1	1	100.0%	
Mountain Plains All American Pet Treats, Greeley, CO	1	0	0.0%	3	2	66.7%	AH Fat (1)
MPM Products USA Inc, Kennesaw, GA	5	4	80.0%	16	15	93.8%	C Protein (1)
Muenster Milling Company, Muenster, TX	1	1	100.0%	5	5	100.0%	
MVP Nutrition, Marion, IN	2	2	100.0%	13	13	100.0%	
Myers Feed & Farm Supply, Corinth, KY	5	5	100.0%	36	36	100.0%	
Nandi, Cincinnati, OH	4	0	0.0%	9	1	11.1%	C Protein (4) AH Fat (4)
Natural Polymer Intl Corp, Plano, TX	1	1	100.0%	2	2	100.0%	
Nature Zone, Chico, CA	1	1	100.0%	2	2	100.0%	
Natures Animals Inc, Mamaroneck, NY	4	4	100.0%	8	8	100.0%	
Natures Logic, Lincoln, NE	4	3	75.0%	12	11	91.7%	AH Fat (1)
Natures Pet Club, Burbank, CA	1	1	100.0%	3	3	100.0%	
Natures Recipe Pet Foods, Pittsburgh, PA	4	4	100.0%	53	53	100.0%	
Natures Variety, Lincoln, NE	9	6	66.7%	76	73	96.1%	AH Fat (3)
Nestle Dreyer's Ice Cream Company, Oakland, CA	1	1	100.0%	2	2	100.0%	
Nestle Purina Petcare Co, St Louis, MO	41	37	90.2%	361	357	98.9%	AH Fat (4)
Newman's Own Organics, Aptos, CA	7	5	71.4%	61	58	95.1%	Ca (1) P (1) K (1)
Nootie LLC, Delray Beach, FL	2	0	0.0%	25	21	84.0%	C Protein (1) AH Fat (1) Ca (1) P (1)
Northwest Naturals, Portland, OR	1	1	100.0%	1	1	100.0%	
Nulo Inc, Austin, TX	6	5	83.3%	62	61	98.4%	C Protein (1)
Nunn Milling Company Inc, Evansville, IN	13	9	69.2%	71	67	94.4%	C Protein (3) Ca:P (1)
Nutra Blend Corp, Neosho, MO	1	1	100.0%	2	2	100.0%	
Nutrena, Minneapolis, MN	20	16	80.0%	185	180	97.3%	C Protein (2) AD Fiber (2) S (1)
Nutri-Vet LLC, Boise, ID	3	2	66.7%	11	10	90.9%	Zn (1)
NuZu Feed Company, Chana, IL	2	2	100.0%	14	14	100.0%	

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BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Nylabone Products, Neptune, NJ	3	3	100.0%	6	6	100.0%	
Odom's Livestock Supply, Inc., Mayfield, KY	5	3	60.0%	41	39	95.1%	ND Fiber (1) Zn (1)
Omega Sea LTD, Painesville, OH	2	2	100.0%	4	4	100.0%	
Only Natural Pet, Boulder, CO	5	3	60.0%	44	42	95.5%	C Protein (2)
Open Farm Inc, Toronto, ON	2	1	50.0%	26	24	92.3%	C Protein (1) AH Fat (1)
Orscheln Farm & Home, Moberly, MO	9	7	77.8%	48	46	95.8%	AH Fat (2)
Oscar Newman LLC, Batavia, IL	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Outward Hound - The Kyjen Corporation, Centennial, CO	1	0	0.0%	1	0	0.0%	C Protein (1)
Overton-Pickett Farmers Coop, Livingston, TN	1	1	100.0%	6	6	100.0%	
Owensboro Grain Co LLC, Owensboro, KY	30	30	100.0%	68	68	100.0%	
Oxbow Enterprises, Murdock, NE	5	4	80.0%	15	14	93.3%	C Protein (1)
P & P Hunting, Greensburg, KY	1	0	0.0%	15	3	20.0%	Ca (1) P (1) Salt (1) Co (1) Fe (1) Mg (1) Mn (1) Se (1) Na (1) S (1) Zn (1) Vit A (1)
Pacific Coast Distributing, Phoenix, AZ	6	5	83.3%	56	54	96.4%	AH Fat (1) P (1)
Party Animal Inc, Hollywood, CA	2	1	50.0%	24	23	95.8%	Ca:P (1)
Paw & Pantry LLC, Laredo, TX	3	3	100.0%	6	6	100.0%	
Performance Feeds, Caneyville, KY	17	17	100.0%	56	56	100.0%	
Performance Feeds, Red Boiling Spings, TN	50	37	74.0%	310	294	94.8%	C Protein (3) Fat (1) ND Fiber (2) Ca (1) Salt (4) Monensin (5)
Pet Brands, Columbus, OH	7	6	85.7%	14	13	92.9%	C Protein (1)
Pet Naturals of Vermont, Essex Junction, VT	1	1	100.0%	8	8	100.0%	
Pet Retail Brands, Toronto, ON	14	9	64.3%	160	155	96.9%	C Protein (1) AH Fat (2) Ca (1) Ca:P (1)
Pet Valu Canada Inc, Markham, ON	2	2	100.0%	26	26	100.0%	
Pet Ventures Inc, North Hollywood, CA	4	3	75.0%	8	7	87.5%	AH Fat (1)
Pet-Ag Inc, Hampshire, IL	1	1	100.0%	5	5	100.0%	
Petguard Inc, Green Cove Spgs, FL	1	1	100.0%	13	13	100.0%	
PetIQ, Eagle, ID	1	1	100.0%	2	2	100.0%	
Petkind, White Rock, BC	1	0	0.0%	3	1	33.3%	C Protein (1) AH Fat (1)
Petland - OH, Chillicothe, OH	2	2	100.0%	6	6	100.0%	
Petmate Denver, Arlington, TX	2	2	100.0%	5	5	100.0%	
Petmatrix LLC, Saddle Brook, NJ	3	3	100.0%	6	6	100.0%	
Pet's Best Life LLC, Kansas City, MO	1	1	100.0%	2	2	100.0%	
Pets Global Inc, Gardena, CA	4	3	75.0%	40	39	97.5%	AH Fat (1)
Petsense, Scottsdale, AZ	5	4	80.0%	49	47	95.9%	Ca (1) P (1)

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Pet-Tao LLC, Franklin, TN	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Pine Tree Farms Inc, Interlaken, NY	3	1	33.3%	6	4	66.7%	AH Fat (2)
Plantation Feeds LLC, Amelia, VA	1	1	100.0%	13	13	100.0%	
Pleasant View Agri-Service, Auburn, KY	2	2	100.0%	6	6	100.0%	
PMI Nutrition International LLC, Brentwood, MO	8	6	75.0%	71	69	97.2%	C Protein (2)
PMI Nutrition LLC, Arden Hills, MN	2	2	100.0%	27	27	100.0%	
Polkadog Bakery, Boston, MA	1	0	0.0%	2	1	50.0%	C Protein (1)
Premium Nutritional Products, Mission, KS	1	0	0.0%	4	3	75.0%	AH Fat (1)
Pretty Bird Intl Inc, Stacy, MN	2	2	100.0%	5	5	100.0%	
Prewitt Farm Supply, Inc., Williamsburg, KY	3	2	66.7%	15	14	93.3%	K (1)
Primal Pet Foods Inc, San Francisco, CA	3	0	0.0%	18	13	72.2%	C Protein (2) Ca (1) P (1) Ca:P (1)
Pro-Pet LLC, Kansas City, MO	1	1	100.0%	3	3	100.0%	
Prosperity Pets, Grand Rapids, MI	1	1	100.0%	2	2	100.0%	
Provimi North America Inc, Brookville, OH	1	1	100.0%	10	10	100.0%	
PSP Distribution LLC , Seymour, IN	6	5	83.3%	54	53	98.1%	AH Fat (1)
Pupford, Lehi, UT	1	0	0.0%	3	2	66.7%	AH Fat (1)
Puppy Cake LLC, Evans City, PA	3	1	33.3%	6	4	66.7%	C Protein (2)
Pupums Inc., Brooklyn, NY	1	1	100.0%	3	3	100.0%	
Pure Treats Inc, Vaudreuil Dorion, QC	1	0	0.0%	2	1	50.0%	AH Fat (1)
Purina Animal Nutrition LLC, Shoreview, MN	79	61	77.2%	671	650	96.9%	C Protein (9) P (3) Co (1) Mg (1) K (5) Na (1) Vit A (2)
Ragland Mills Inc, Neosho, MO	1	1	100.0%	13	13	100.0%	
Ralco Nutrition Inc, Marshall, MN	1	1	100.0%	2	2	100.0%	
Raw Bistro, Inc., Cannon Falls, MN	1	0	0.0%	2	1	50.0%	AH Fat (1)
Real Pet Food Company, San Antonio, TX	4	2	50.0%	30	28	93.3%	C Protein (2)
Red A Feeds, Mankato, MN	5	5	100.0%	23	23	100.0%	
Red Cedar LLC, Lawrenceburg, KY	3	3	100.0%	18	18	100.0%	
Red River Commodities, Fargo, ND	3	0	0.0%	19	12	63.2%	C Protein (2) Fat (3) Salt (1) Na (1)
Redbarn Pet Products LLC, Great Bend, KS	3	3	100.0%	6	6	100.0%	
Redmond Minerals Inc, Redmond, UT	2	1	50.0%	17	13	76.5%	Ca (1) Cu (1) K (1) S (1)
Repashy Ventures Inc, La Jolla, CA	4	2	50.0%	16	14	87.5%	C Protein (2)
Resolve Sustainable Solutions, Fort Dodge, IA	3	1	33.3%	12	10	83.3%	Fat (2)
Ridley Block Operations, Mankato, MN	24	15	62.5%	223	205	91.9%	C Protein (5) Ca (4) P (2) Mg (1) Se (3) Vit A (3)
Ridley Feed Ingredient, Mendota, IL	2	2	100.0%	5	5	100.0%	
Ridley USA Inc, Mankato, MN	3	2	66.7%	31	30	96.8%	Vit A (1)

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Rip's Farm Center, Tollesboro, KY	55	39	70.9%	280	262	93.6%	C Protein (9) Fat (4) Ca (3) Cu (1) Monensin (1)
Roam Pets, New York, NY	2	0	0.0%	4	2	50.0%	AH Fat (2)
Rose Acre Farms Inc, Seymour, IN	1	1	100.0%	2	2	100.0%	
Roudybush Inc, Woodland, CA	1	1	100.0%	2	2	100.0%	
Royal Canin USA Inc, St Charles, MO	8	8	100.0%	102	102	100.0%	
Rudy Green Inc, Louisville, KY	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Ruff Greens Inc., Allen, TX	1	0	0.0%	13	11	84.6%	K (1) Vit A (1)
Rural King Supply, Mattoon, IL	7	4	57.1%	68	65	95.6%	C Protein (1) P (1) Vit A (1)
Rush Direct Inc, Wood Dale, IL	5	3	60.0%	15	13	86.7%	C Protein (1) AH Fat (1)
Russell County Feed Mill Inc, Russell Springs, KY	4	3	75.0%	22	21	95.5%	C Protein (1)
Sams West Inc, Bentonville, AR	3	3	100.0%	41	41	100.0%	
Save-A-Lot LTD, Earth City, MO	3	3	100.0%	38	38	100.0%	
Savory Prime, Ventura, CA	2	2	100.0%	4	4	100.0%	
Schell & Kampeter Inc, Meta, MO	1	1	100.0%	12	12	100.0%	
Science Hill Milling Co, Science Hill, KY	21	13	61.9%	127	118	92.9%	C Protein (5) Ca (1) Salt (3)
Scott Pet Products, Rockville, IN	6	4	66.7%	42	40	95.2%	C Protein (2)
Seachem Laboratories Inc, Madison, GA	2	1	50.0%	6	5	83.3%	AH Fat (1)
Semican International Inc., Plessisville, QC	2	2	100.0%	13	13	100.0%	
Seventy Feeds LLC, Eubank, KY	3	3	100.0%	15	15	100.0%	
Shameless Pets, Chicago, IL	1	0	0.0%	2	0	0.0%	C Protein (1) AH Fat (1)
Siemer Milling Company, Teutopolis, IL	2	2	100.0%	6	6	100.0%	
Simmons Pet Food Inc, Pennsauken, NJ	3	3	100.0%	39	39	100.0%	
Simply Nourish Pet Food Co, Phoenix, AZ	10	9	90.0%	90	89	98.9%	AH Fat (1)
Sligo Feed Mill, Pendleton, KY	7	6	85.7%	51	50	98.0%	Ca (1)
Smarter Paw LLC, Lenexa, KS	2	1	50.0%	4	3	75.0%	AH Fat (1)
Smokehouse Pet Products, Sun Valley, CA	1	0	0.0%	2	1	50.0%	AH Fat (1)
Solid Gold Pet LLC, Greenville, SC	6	5	83.3%	76	75	98.7%	C Protein (1)
Soulistic, Natick, MA	2	2	100.0%	26	26	100.0%	
South Fresh Feeds, Demopolis, AL	1	1	100.0%	1	1	100.0%	
Southern Kentucky Feed & Grain, Bowling Green, KY	8	6	75.0%	37	35	94.6%	C Protein (1) P (1)
Southern State Coop Inc., Richmond, VA	3	2	66.7%	37	36	97.3%	K (1)
Southern States, Bowling Green, KY	1	1	100.0%	6	6	100.0%	
Southern States, Flemingsburg, KY	17	17	100.0%	73	73	100.0%	
Southern States, Georgetown, KY	1	1	100.0%	1	1	100.0%	
Southern States, Hopkinsville, KY	1	1	100.0%	12	12	100.0%	
Southern States, Owingsville, KY	2	2	100.0%	8	8	100.0%	
Southern States, Somerset, KY	3	3	100.0%	11	11	100.0%	
Southern States, Danville, KY	7	5	71.4%	21	19	90.5%	C Protein (2)
Southern States, London, KY	8	4	50.0%	46	41	89.1%	C Protein (3) Fat (1) Salt (1)
Specialty Feeds Inc, Memphis, TN	5	5	100.0%	65	65	100.0%	
Specialty Products Resources Inc, Waltham, MA	2	2	100.0%	4	4	100.0%	

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Standlee Hay Co Inc, Eden, ID	2	2	100.0%	5	5	100.0%	
Star Mark Pet Products Inc, Hutto, TX	1	1	100.0%	1	1	100.0%	
Stella & Chewy's LLC, Oak Creek, WI	5	2	40.0%	51	48	94.1%	C Protein (2) P (1)
Strite Custom Feeds LLC, Crab Orchard, KY	6	4	66.7%	37	32	86.5%	C Protein (1) Ca (2) P (2)
Summersville Feed Mill, Summersville, KY	1	1	100.0%	2	2	100.0%	
Sun Seed Company, Bowling Green, OH	1	1	100.0%	5	5	100.0%	
Sunny Pastures Feed, Harrodsburg, KY	1	1	100.0%	5	5	100.0%	
Sunshine Mills Inc, Red Bay, AL	26	20	76.9%	188	179	95.2%	C Protein (1) AH Fat (4) Ca (1) P (1) Na (1) Ca:P (1)
Superior Farms Pet Provisions, Dixon, CA	1	0	0.0%	2	1	50.0%	AH Fat (1)
Supreme Petfoods LTD, Ipswich Suffolk	7	5	71.4%	21	19	90.5%	Ca (2)
SwedenCare USA, Poulosbo, WA	1	0	0.0%	4	3	75.0%	K (1)
Sweet Meadow Farm, Sherborn, MA	2	2	100.0%	10	10	100.0%	
T & H Feed Service, Inc., Lebanon, KY	5	2	40.0%	29	26	89.7%	C Protein (1) Salt (1) K (1)
T & T Feed and Seed, Bardstown, KY	2	2	100.0%	5	5	100.0%	
Tailbangers, Millsboro, DE	1	1	100.0%	2	2	100.0%	
Taste of the Wild, Meta, MO	4	4	100.0%	54	54	100.0%	
Tate & Lyle Ingredients Americas, Decatur, IL	4	4	100.0%	9	9	100.0%	
TDB Brands LLC, Exeter, NH	1	0	0.0%	2	1	50.0%	AH Fat (1)
Teds Feed Store, Middlesboro, KY	1	1	100.0%	7	7	100.0%	
Tender & True Pet Nutrition, Omaha, NE	1	1	100.0%	12	12	100.0%	
Tennessee Farmers Coop, Lavergne, TN	14	9	64.3%	123	117	95.1%	C Protein (1) Ca (2) Mn (1) Zn (1) Vit A (1)
Tetra Holding (US) Inc, Blacksburg, VA	1	1	100.0%	2	2	100.0%	
The Bramton Co. LLC, Dallas, TX	1	1	100.0%	6	6	100.0%	
The Crump Group Inc, Brampton, ON	2	1	50.0%	4	3	75.0%	AH Fat (1)
The Hyland Company Inc, Ashland, KY	19	14	73.7%	221	216	97.7%	C Protein (1) Ca (1) Ash (3)
The Lazy Dog Cookie Co Inc, Ballston Spa, NY	1	1	100.0%	2	2	100.0%	
The Phoenix Company, Willows, CA	1	1	100.0%	2	2	100.0%	
The Pound Bakery, Harvard, IL	2	0	0.0%	4	2	50.0%	AH Fat (2)
The Real Meat Company, Montrose, CA	1	1	100.0%	13	13	100.0%	
Three Dog Bakery LLC, Kansas City, MO	3	3	100.0%	6	6	100.0%	
Tiki, Chesterfield, MO	3	3	100.0%	29	29	100.0%	
Topco Associates, Elk Grove Village, IL	6	2	33.3%	60	53	88.3%	AH Fat (2) Ca (2) P (2) Cu (1)
Tractor Supply Company, Brentwood, TN	58	46	79.3%	452	434	96.0%	C Protein (2) AH Fat (5) Ca (2) P (1) Cu (2) K (5) Se (1)

Table 10. Sampling type by sampling location in 2020.

BusinessName	Samples			Tests			Sample Violations
	Total	# Passed	% Passed	Total	# Passed	% Passed	
Trader Joe's, Monsey, NY	3	1	33.3%	17	15	88.2%	AH Fat (2)
Treasure & Oil LLC, Nicholasville, KY	1	1	100.0%	2	2	100.0%	
Treat Planet, Maryland Heights, MO	2	0	0.0%	4	2	50.0%	C Protein (1) AH Fat (1)
Tri State Packaging Co, Van Wert, OH	1	1	100.0%	2	2	100.0%	
Tri-County Fertilizer Co., Inc., Richmond, KY	3	1	33.3%	12	10	83.3%	C Protein (1) C Fiber (1)
Triple Crown Nutrition Inc, Wayzata, MN	1	0	0.0%	17	15	88.2%	Salt (1) Fe (1)
Tropiclean, Wentzville, MO	1	1	100.0%	2	2	100.0%	
Tucker Milling LLC, Guntersville, AL	3	3	100.0%	13	13	100.0%	
Tuffys Pet Foods Inc, Perham, MN	9	7	77.8%	107	102	95.3%	C Protein (1) AH Fat (1) Ca (1) P (1) Ca:P (1)
Tyson Pet Products, Independence, IA	4	3	75.0%	8	7	87.5%	C Protein (1)
Ultimate Whitetail, Columbia, KY	1	1	100.0%	7	7	100.0%	
Uncle Jimmys Brand Product LLC, New Castle, PA	1	1	100.0%	2	2	100.0%	
Under the Weather, South Burlington, VT	1	0	0.0%	2	1	50.0%	C Protein (1)
United Livestock Commodities, Mayfield, KY	11	3	27.3%	93	82	88.2%	Ca (4) P (4) Mg (1) K (1) Vit A (1)
United Pet Group Inc, Blacksburg, VA	6	6	100.0%	12	12	100.0%	
Valley Farm Center Inc, Monticello, KY	2	2	100.0%	11	11	100.0%	
Vera, Eagle, IA	1	0	0.0%	2	1	50.0%	AH Fat (1)
Versele-Laga, Miami, FL	1	1	100.0%	3	3	100.0%	
Vetoquinol Pharmaceuticals, Fort Worth, TX	1	0	0.0%	9	8	88.9%	Ash (1)
Vetriscience Laboratories, Essex Junction, VT	1	1	100.0%	2	2	100.0%	
Vets Plus Inc, Menomonie, WI	3	3	100.0%	7	7	100.0%	
Vetscience LLC, Dallas, TX	3	3	100.0%	7	7	100.0%	
Vitakraft Sun Seed Co Inc, Bowling Green, OH	4	3	75.0%	9	8	88.9%	AH Fat (1)
Vital Planet, Palm Harbor, FL	1	1	100.0%	2	2	100.0%	
Volkman Pet Products, Ceres, CA	1	0	0.0%	2	1	50.0%	Ash (1)
Waggin Train LLC, St Louis, MO	1	1	100.0%	2	2	100.0%	
Walgreen Co, Deerfield, IL	1	1	100.0%	1	1	100.0%	
Wal-Mart Stores Inc, Bentonville, AR	15	12	80.0%	117	113	96.6%	AH Fat (1) Ca (1) P (2)
Walpole Feed & Supply, Okeechobee, FL	1	1	100.0%	12	12	100.0%	
Ware Milling, Houston, MS	3	3	100.0%	20	20	100.0%	
Watson Cattle Nutrition, Bowling Green, KY	1	1	100.0%	11	11	100.0%	
Well Pet LLC, Tewksbury, MA	10	9	90.0%	107	106	99.1%	AH Fat (1)
Weruva International Inc, Natick, MA	3	3	100.0%	36	36	100.0%	
Wet Noses Natural Dog Treat Co, Monroe, WA	4	3	75.0%	8	7	87.5%	C Protein (1)
Whitebridge Pet Products, Chesterfield, MO	9	7	77.8%	42	40	95.2%	AH Fat (2)
Whitetail Institute of North America, Pintlala, AL	1	1	100.0%	7	7	100.0%	
Whole Foods Market, Austin, TX	3	3	100.0%	38	38	100.0%	
Wholesale Merchandisers, Grand Rapids, MI	1	1	100.0%	1	1	100.0%	
Wild Meadows Farms, Salunga, PA	1	1	100.0%	2	2	100.0%	
Wildgame Innovations LLC, Baton Rouge, LA	4	3	75.0%	22	21	95.5%	C Protein (1)
Willard Milling, Inc., Grayson, KY	26	26	100.0%	199	199	100.0%	
Williams Farm, Germantown, KY	1	1	100.0%	1	1	100.0%	
Winchester Feeds Inc, Winchester, KY	11	11	100.0%	107	107	100.0%	

Table 10. Sampling type by sampling location in 2020.

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	Total	# Passed	% Passed	Total	# Passed	% Passed	
Woodford Feed Co Inc, Versailles, KY	7	7	100.0%	60	60	100.0%	
Woodys Feed & Grain, Dickinson, ND	1	0	0.0%	12	11	91.7%	Fat (1)
Yitto Paws PBC, Denver, CO	1	1	100.0%	3	3	100.0%	
Ziwipeak LTD, Carmel, CA	2	1	50.0%	28	27	96.4%	AH Fat (1)
Zoo Med Laboratories Inc., San Luis Obispo, CA	4	3	75.0%	14	13	92.9%	Ca (1)
Zukes, Durango, CO	4	1	25.0%	8	5	62.5%	C Protein (1) AH Fat (2)
Zygenex Inc., Springville, UT	1	1	100.0%	3	3	100.0%	
Totals	2,754	2,084	76%	18,657	17,772	95%	

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