



Regulatory Bulletin 347

2021 COMMERCIAL FEEDS IN KENTUCKY

REGULATORY SERVICES



University of
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*College of Agriculture,
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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.

The end of 2021 brought the first changes to our inspection staff in 10 years with the retirement of two inspectors. John Flood retired after 36 years and Brad Johnston after 25 years with the division. We thank John and Brad for their years of dedicated service to our mission and welcome our newest inspectors, Alysia Conner and Tori Embry.

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 2021 as we did in 2020. Our inspectors continued to collect samples from businesses that were actively distributing animal feed and followed all appropriate guidelines to protect themselves and others. We did see a resumption of more normal activities at feed mills and distributors in 2021.

Feed Mill Inspections

Maintaining high quality and safe feeds for animals requires a comprehensive inspection program. 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. Additionally, there are 44 feed mills in the state manufacturing medicated feed but not requiring a license from FDA. All feed mills must comply with good manufacturing practices assessed as part of a comprehensive inspection program. The purpose of these inspections is to ensure several safe feed practices are as follows: (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 recent 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 if the firm is a manufacturer of these feeds.

Our inspectors conducted 39 inspections in 2021 spanning the 2020-21 and 2021-22 contracts with FDA. Our current inspection contract includes evaluations of good manufacturing practices (GMP's) at 16 Kentucky mills manufacturing medicated feed and 16 inspections at firms that

Table 1. Number of feed ingredient samples in 2021.

| Type | Official Samples with Guarantees | Unofficial, Proficiency, Service Samples | Total |
|---------------------|----------------------------------|--|------------|
| Alfalfa Products | 3 | 0 | 3 |
| Animal Products | 8 | 1 | 9 |
| Brewery Products | 0 | 0 | 0 |
| Corn Products | 44 | 76 | 120 |
| Cottonseed Products | 1 | 0 | 1 |
| Distillers Products | 43 | 4 | 47 |
| Soybean Products | 74 | 2 | 76 |
| Wheat Products | 8 | 1 | 9 |
| Other Grains | 15 | 14 | 29 |
| Minerals | 7 | 6 | 13 |
| Vitamins | 3 | 0 | 3 |
| Urea & Other NPN | 0 | 0 | 0 |
| Other | 15 | 7 | 22 |
| Total | 221 | 111 | 332 |

Table 2. Number of commercial feed samples in 2021.

| Formula Feeds | Official Samples with Guarantees | Unofficial, Proficiency, Service Samples | Total |
|-----------------------|----------------------------------|--|-------------|
| Poultry Feed | 248 | 7 | 255 |
| Beef Feed | 440 | 17 | 457 |
| Dairy Feed | 27 | 4 | 31 |
| Swine Feed | 94 | 18 | 112 |
| Sheep Feed | 22 | 1 | 23 |
| Goat Feed | 44 | 5 | 49 |
| Equine Feed | 223 | 10 | 233 |
| Rabbit Feed | 26 | 1 | 27 |
| Fish Feed | 4 | 0 | 4 |
| Deer Products | 45 | 2 | 47 |
| Milk Replacer | 11 | 0 | 11 |
| Mineral/Vitamin/Other | 159 | 12 | 171 |
| Wild Bird Food | 26 | 0 | 26 |
| Total | 1369 | 77 | 1446 |

manufacture only non-medicated feed. With FSMA regulations now including production of non-medicated feed, we are making a conscience effort to conduct GMP inspections for compliance with FSMA regulations at all Kentucky feed manufacturers in the next few years. The current contract also includes preventative controls inspections at 10 of the 32 total inspection locations. At the beginning of 2021, there were 188 feed manufacturing facilities located in Kentucky that serve the animal feed and pet food industries. Additionally, 324 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 of 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

Table 3. Number of pet and specialty feed samples in 2021.

| Type | Official Samples with Guarantees | Unofficial, Proficiency, Service Samples | Total |
|---------------------------|----------------------------------|--|-------------|
| Dog Food | 386 | 6 | 392 |
| Cat Food | 220 | 4 | 224 |
| Dog & Cat Treats | 369 | 0 | 369 |
| Specialty Pet & Pet Other | 84 | 1 | 85 |
| Total | 1059 | 11 | 1070 |

Table 4. Survey of 2021 corn crop (57 total samples).

| | Units | # Tests | LLQ ¹ | >LLQ | Mean ² |
|---------------|-------|---------|------------------|------|-------------------|
| Crude Protein | % | 57 | | | 6.91 |
| Aflatoxin | ppb | 40 | < 5 ppb | 0 | --- |
| Fumonisin | ppm | 40 | < 1 ppm | 33 | 1.62 |
| Vomitoxin | ppm | 40 | < 0.5 ppm | 28 | 0.75 |
| Zearalenone | ppm | 40 | < 0.02 ppm | 12 | 0.09 |
| T-2 Toxin | ppm | 40 | < 0.02 ppm | 12 | 0.03 |
| Ochratoxin | ppm | 40 | < 0.02 ppm | 2 | 1.30 |
| Moisture | % | 57 | | | 17.22 |

¹Lower limit of quantification.

²Mean includes only samples with analyzed values > LLQ.

Table 5. Number of feed analyses reported in 2021.

| | | Official Samples | Unofficial, Proficiency, Service Samples | Total |
|-------------------|-------------------------|-------------------------|---|---------------|
| Proximate | Crude Protein | 2463 | 192 | 2655 |
| | NPN Equiv Protein | 54 | 2 | 56 |
| | Crude Fat | 2070 | 163 | 2233 |
| | AH Fat | 262 | 6 | 268 |
| | Crude Fiber | 1365 | 151 | 1516 |
| | Acid Detergent Fiber | 959 | 65 | 1024 |
| | Neutral Detergent Fiber | 942 | 65 | 1007 |
| | Ash | 145 | 8 | 153 |
| | Moisture | 1290 | 120 | 1410 |
| Minerals | Aluminum | 0 | 3 | 3 |
| | Arsenic | 0 | 0 | 0 |
| | Cadmium | 0 | 0 | 0 |
| | Calcium | 1938 | 77 | 2015 |
| | Ca:P Ratio | 346 | 1 | 347 |
| | Cobalt | 1915 | 66 | 1981 |
| | Copper | 1938 | 77 | 2015 |
| | Chromium | 0 | 0 | 0 |
| | Iron | 1938 | 77 | 2015 |
| | Lead | 0 | 0 | 0 |
| | Magnesium | 1938 | 77 | 2015 |
| | Manganese | 1938 | 77 | 2015 |
| | Molybdenum | 0 | 3 | 3 |
| | Phosphorus | 1937 | 77 | 2014 |
| | Potassium | 1938 | 77 | 2015 |
| | Salt, min | 889 | 39 | 927 |
| | Selenium | 651 | 47 | 698 |
| | Sodium | 1938 | 76 | 2014 |
| Sulfur | 22 | 12 | 34 | |
| Zinc | 1938 | 77 | 2015 | |
| Vitamins | Vitamin A | 249 | 3 | 252 |
| | | | | |
| Drugs | Amprolium | 11 | 2 | 13 |
| | Bacitracin | 0 | 0 | 0 |
| | Carbadox | 0 | 0 | 0 |
| | Chlortetracycline | 10 | 1 | 11 |
| | Decoquinat | 9 | 1 | 10 |
| | Lasalocid | 51 | 3 | 54 |
| | Monensin, sodium | 82 | 3 | 85 |
| | Oxytetracycline | 0 | 0 | 0 |
| Tylosin | 0 | 0 | 0 | |
| Mycotoxins | Aflatoxin | 16 | 63 | 79 |
| | Fumonisin | 16 | 62 | 78 |
| | Ochratoxin | 16 | 63 | 79 |
| | T-2-Toxin | 16 | 62 | 78 |
| | Vomitoxin | 16 | 63 | 79 |
| | Zearalenone | 16 | 62 | 78 |
| Other | Listeria | 9 | 0 | 9 |
| | Salmonella | 19 | 0 | 19 |
| | Microscopy | 1 | 4 | 5 |
| Totals | | 31,351 | 2,026 | 33,377 |

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 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 brought \$3,000,000 into the division and the university from 2016 to 2021. In July of 2021, we moved into the maintenance phase of this program providing an additional \$1,125,000 for the division and university over the next 5 years. Implementation of these standards has strengthened our program and provided a defensible, sustainable pathway forward.

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 1200 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

Table 6. Reported tons of ingredients distributed in 2021.

| Ingredient | Exempt | Non-Exempt |
|-----------------------|----------------|------------------|
| Alfalfa Products | 1,936 | 4,600 |
| Animal Products | 354 | 21,939 |
| Brewery Products | 6,310 | 5,471 |
| Corn Products | 78,229 | 127,292 |
| Cottonseed Products | 10,474 | 5,491 |
| Distillers Products | 115,246 | 187,407 |
| Soybean Products | 209,143 | 572,515 |
| Wheat Products | 103,337 | 16,258 |
| Other Grains/Oilseeds | 4,362 | 6,189 |
| Minerals | 13,712 | 70,962 |
| Vitamins | 570 | 4,657 |
| Urea & Other NPN | 6,569 | 1,711 |
| Other | 40,467 | 79,614 |
| Distillers wet grains | 0 | 186,140 |
| Brewers wet grains | 0 | 5,685 |
| Liquid whey | 0 | 0 |
| Total | 590,709 | 1,295,930 |

Table 7. Reported tons of commercial feeds distributed in 2021.

| Type | 2021 |
|-----------------------|------------------|
| Poultry Feed | 93,210 |
| Beef Feed | 446,224 |
| Dairy Feed | 121,737 |
| Swine Feed | 16,636 |
| Sheep Feed | 9,639 |
| Goat Feed | 5,960 |
| Horse Feed | 130,508 |
| Rabbit Feed | 6,980 |
| Fish Feed | 4,037 |
| Deer Products | 13,943 |
| Milk Replacer | 1,748 |
| Mineral/Vitamin/Other | 82,090 |
| Wild Bird Food | 25,336 |
| Pet Food | 232,073 |
| Total | 1,190,118 |

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.

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 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 2021, net income for the feed program was \$1,493,048 including inspection fees, registration fees and late payment penalties.

Feed Sampling

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.

Tables 1, 2 and 3 list the number of samples analyzed in 2021 obtained by field inspectors of feed ingredients, commercial feeds, and pet/specialty foods. Overall, sample numbers were slightly lower in 2021 compared to previous years. 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. Pet and specialty foods accounted for 40% of all official samples.

In addition to the official samples reported, our lab also analyzed an additional 199 other samples. The samples include samples lacking guarantees collected by inspectors (primarily corn), ingredients and products submitted to our lab by county extension agents, the UK Veterinary Diagnostic Laboratory, livestock producers, and consumers. In 2021, our lab analyzed 44 service samples for Kentucky feed consumers, feed dealers, and manufacturers.

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 5). Crude protein averaged 6.9% on the 57 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 2021. 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 80 mycotoxin tests in 2021. 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 2021, we analyzed 28 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. Neither salmonella nor listeria was detected in any of the 28 samples tested.

This past year was our first full year using NIR (near infrared reflectance spectroscopy) as a screening tool with livestock feeds, ingredients, pet foods, pet treats, and specialty products. If the NIR scan indicates the sample does not meet the guarantee of the analyte in question or the NIR value is questionable, the sample is analyzed by the appropriate wet chemistry method. As a screening test, 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 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. 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 2021. Samples were collected at 330 locations in 2021 compared to 344 locations the previous year.

Sample Violation Report

The sample violation report for 2021 (Table 10) includes the 2649 official samples from 516 different manufacturers or guarantors. Overall, 76% 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. Since September of 2021, our office has issued withdrawals from distribution on samples failing to meet guarantees for medications (deficient or excessive), selenium (deficient or excessive), copper (excessive), salt (excessive), and non-protein nitrogen (excessive).

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|--|------------------------|--------------------|-------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| Acela Biomedical Inc., Maysville | 1 | 1 | 2 |
| Adairville Feed Mill, Adairville | 7 | 0 | 7 |
| Adairville Feed Mill #2, Russellville | 21 | 0 | 21 |
| ADM Alliance Nutrition, Campbellsville | 21 | 1 | 22 |
| Ag1 Coop, Monticello | 7 | 0 | 7 |
| AgWood, Inc., Mt Sterling | 9 | 0 | 9 |
| Akridge Farm Supply, Fredonia | 8 | 0 | 8 |
| Albany Building Center, Inc., Albany | 7 | 1 | 8 |
| Aldi, Bowling Green | 0 | 6 | 6 |
| Allen County Farmers Service, Inc., Scottsville | 7 | 0 | 7 |
| Amazon.com Services, Inc., Seattle | 0 | 9 | 9 |
| Anderson County Farm Service, Inc., Lawrenceburg | 2 | 0 | 2 |
| Arnold Feed & Seed, Campbellsville | 9 | 1 | 10 |
| Ashland Milling Company, Inc., Ashland | 4 | 0 | 4 |
| Augusta Farm Supply, Inc., Augusta | 1 | 0 | 1 |
| Bagdad Roller Mills, Inc., Bagdad | 45 | 2 | 47 |
| Bardstown Mills, Inc., Bardstown | 8 | 0 | 8 |
| Berts Pet Center, Ashland | 1 | 23 | 24 |
| Big Lots, Campbellsville | 0 | 7 | 7 |
| Big Lots, Hopkinsville | 0 | 3 | 3 |
| Big Lots, Somerset | 0 | 3 | 3 |
| Big Lots #1089, Paducah | 0 | 2 | 2 |
| Blandford Mills, LLC, Springfield | 7 | 0 | 7 |
| Bluegrass Barkery - Old Todds, Lexington | 0 | 5 | 5 |
| Bluegrass Barkery - Tiverton Way, Lexington | 0 | 5 | 5 |
| Bluegrass Farm Supply, Marion | 12 | 0 | 12 |
| Bluegrass Feed & Supply LLC, Hustonville | 2 | 0 | 2 |
| Bowling Feed & Hardware, Inc., Catlettsburg | 0 | 2 | 2 |
| Bowlin's Feed, Inc., Albany | 3 | 0 | 3 |
| Bratcher Custom Feed LLC, Crab Orchard | 15 | 0 | 15 |
| Brodhead Farm Market, Brodhead | 4 | 0 | 4 |
| Brooksville Farm Supply, Brooksville | 14 | 0 | 14 |
| Burkesville Feed & Farm Supply, Burkesville | 7 | 1 | 8 |
| Burkman Feeds, Columbia | 4 | 0 | 4 |
| Burkman Feeds, Edmonton | 2 | 0 | 2 |
| Burkman Feeds, Harned | 8 | 0 | 8 |
| Burkman Feeds, Lebanon | 1 | 0 | 1 |
| Burkman Feeds, London | 14 | 0 | 14 |
| Burkman Feeds LLC, Danville | 33 | 1 | 34 |
| Burkman Feeds LLC, Glasgow | 36 | 0 | 36 |
| Calhouns Farm & Pet, Madisonville | 0 | 18 | 18 |
| Calhouns Feed Service, Madisonville | 13 | 0 | 13 |
| Cargill Animal Nutrition, Winchester | 16 | 0 | 16 |
| Caudill Seed, Morehead | 3 | 0 | 3 |
| Cedar Valley Harness Shop, Hopkinsville | 7 | 1 | 8 |
| Central Farm Supply of KY, Inc., Louisville | 19 | 5 | 24 |
| Central Farmers Supply, Inc., Greensburg | 7 | 0 | 7 |
| Champion Petfoods USA Inc, Auburn | 0 | 6 | 6 |

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|--|------------------------|--------------------|-------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| Clements AG Supply Inc, Springfield | 3 | 0 | 3 |
| Colson's Feed & Garden Supply, Manchester | 3 | 0 | 3 |
| Commonwealth Agri-Energy LLC, Hopkinsville | 3 | 0 | 3 |
| Connect Rental & Sales, Sharpsburg | 3 | 0 | 3 |
| Costco, Lexington | 0 | 2 | 2 |
| Country Farm & Home, Monticello | 0 | 3 | 3 |
| CPC Commodities LLC, Fountain Run | 24 | 0 | 24 |
| Crittenden Farm Lawn & Garden, Crittenden | 15 | 0 | 15 |
| Custom Feed Mill LLC, Morganfield | 9 | 1 | 10 |
| D & R Metal and Ag Supply, Greenup | 1 | 0 | 1 |
| Darling Ingredients Inc, Butler | 3 | 0 | 3 |
| Darling Ingredients Inc Tub Plant, Maysville | 6 | 0 | 6 |
| Day & Day Feed Mill, Columbia | 8 | 2 | 10 |
| Dinovite Inc., Crittenden | 0 | 10 | 10 |
| Dixie Feeds LLC, Falmouth | 0 | 2 | 2 |
| Dollar General, Albany | 0 | 4 | 4 |
| Dollar General, Scottsville | 0 | 4 | 4 |
| Dollar General Market, Franklin | 0 | 4 | 4 |
| Dollar General Market #13158, Jamestown | 0 | 4 | 4 |
| Dollar General Store, Nancy | 0 | 8 | 8 |
| Dollar Tree, Columbia | 0 | 9 | 9 |
| Dollar Tree, Monticello | 0 | 2 | 2 |
| Dunhams Sports, Maysville | 0 | 3 | 3 |
| Dunhams Sports, Somerset | 0 | 1 | 1 |
| E & L Pets, Madisonville | 0 | 14 | 14 |
| Enviroflight LLC, Maysville | 5 | 0 | 5 |
| Excel Equine, Louisville | 26 | 1 | 27 |
| Fairview General Store, Campbellsville | 10 | 1 | 11 |
| Family Dollar - Lancaster, Lancaster | 0 | 4 | 4 |
| Farmers Feed Mills Inc, Lexington | 24 | 0 | 24 |
| Feed Blenders Inc., Lebanon | 3 | 0 | 3 |
| Feeders Supply, Elizabethtown | 0 | 16 | 16 |
| Feeders Supply, Louisville | 0 | 3 | 3 |
| Feeders Supply, Shepherdsville | 0 | 5 | 5 |
| Feeders Supply, Somerset | 0 | 17 | 17 |
| Feeders Supply, Lexington | 0 | 7 | 7 |
| Feeders Supply, Walton | 0 | 5 | 5 |
| Five Star Feed Services, Guthrie | 10 | 0 | 10 |
| Fleming County Farm Supply, Flemingsburg | 2 | 2 | 4 |
| Food City, Middlesboro | 0 | 13 | 13 |
| Food Lion, Scottsville | 0 | 13 | 13 |
| Frank L Hinton & Son, Plummers Landing | 15 | 0 | 15 |
| Fulton's Archery, Mays Lick | 2 | 1 | 3 |
| Gabbi's Boutique, Henderson | 0 | 33 | 33 |
| GHC Milling Co, Fordsville | 8 | 0 | 8 |
| Gilliam's Farm Supply, Olive Hill | 4 | 0 | 4 |
| Glo Marr Products, Lawrenceburg | 0 | 1 | 1 |
| Globe Farm Store, Olive Hill | 2 | 0 | 2 |

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|--|------------------------|--------------------|-------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| Gold City Feed Mill, Franklin | 0 | 1 | 1 |
| Golden Rod Feeds, Liberty | 6 | 0 | 6 |
| Good Foods Co-Op, Lexington | 0 | 5 | 5 |
| Green River Feed Mill Inc, Morgantown | 8 | 0 | 8 |
| Greenleaf Commodities, Danville | 4 | 0 | 4 |
| Hall's Feed and Farm, Nicholasville | 1 | 1 | 2 |
| Hardin County Milling Co Inc, Elizabethtown | 8 | 0 | 8 |
| Harper's Verona Feed and More, Verona | 6 | 0 | 6 |
| Hays Feed & Seed LLC, Smiths Grove | 11 | 0 | 11 |
| Heartbreak Ridge Farm Supply, Clay City | 3 | 0 | 3 |
| Heilman Hardware & Lumber Co., Falmouth | 1 | 3 | 4 |
| Hilander Feed Inc, Georgetown | 4 | 0 | 4 |
| Hinton Mills, Cynthiana | 6 | 0 | 6 |
| Hollywood Feed, Lexington | 0 | 7 | 7 |
| Hoof N Paw Pet Supply, Richmond | 0 | 19 | 19 |
| Hoover Feed Mill, Scottsville | 19 | 0 | 19 |
| Hopkinsville Elevator, Russellville | 1 | 0 | 1 |
| IGA, Burksville | 0 | 4 | 4 |
| IGA, Liberty | 0 | 8 | 8 |
| J & H Feed & Tack Inc, Paintsville | 12 | 0 | 12 |
| J. A. Oldfield & Son, Inc., Mize | 1 | 0 | 1 |
| J.H. Fedders, Covington | 4 | 8 | 12 |
| Jabetown Mill, Ewing | 17 | 0 | 17 |
| Jackson County Farm Service, McKee | 2 | 0 | 2 |
| Janes Fertilizer & Farm Supply, Columbia | 2 | 0 | 2 |
| Jeffries Feed Seed & Supply Inc, Campbellsville | 7 | 0 | 7 |
| Jones Farm & Garden Supply, Whitley City | 2 | 0 | 2 |
| JSW Farm Supply, West Liberty | 9 | 2 | 11 |
| Kee's Farm Service & Supply, LLC., Grayson | 5 | 1 | 6 |
| Kentucky Nutrition Service Inc, Nancy | 4 | 0 | 4 |
| Kentucky Organic Farm and Feed Inc, Guthrie | 16 | 0 | 16 |
| Kevil Crop Service dba Rudys Farm Center, Kevil | 5 | 0 | 5 |
| Keystone Foods, Franklin | 7 | 0 | 7 |
| Knifley Ag Supply & Hardware, Campbellsville | 3 | 0 | 3 |
| Kroger - Boston Rd, Lexington | 0 | 2 | 2 |
| Kroger, Corbin | 0 | 12 | 12 |
| Kroger, Elizabethtown | 0 | 7 | 7 |
| Kroger #399, Campbellsville | 0 | 9 | 9 |
| Kroger #718, Owensboro | 0 | 3 | 3 |
| Lake Cumberland Feed & Farm Supply, LLC, Russell Springs | 6 | 0 | 6 |
| Lester J Stutzman Feed Mill, Marion | 8 | 0 | 8 |
| Logan County Animal Clinic, Russellville | 0 | 2 | 2 |
| Lone Star Farm & Home, Mt. Vernon | 5 | 4 | 9 |
| Lowe's #1770, Campbellsville | 0 | 1 | 1 |
| Lowe's #2581, Nicholasville | 0 | 3 | 3 |
| Lowe's #2592, Shelbyville | 0 | 1 | 1 |
| Luttrull Feeds, Inc., Pembroke | 7 | 1 | 8 |
| Lyon Feed, West Liberty | 12 | 0 | 12 |

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|---|------------------------|--------------------|-------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| M & M Farm Supply, Austin | 5 | 0 | 5 |
| Marion Feed Mill, Marion | 20 | 1 | 21 |
| Marshall County Coop, Benton | 2 | 5 | 7 |
| Mays Lick Mill, Mays Lick | 9 | 2 | 11 |
| Mazelin Feed Mill, Scottsville | 20 | 2 | 22 |
| McCauley Brothers Inc, Versailles | 25 | 0 | 25 |
| McRay Feed LLC, Harrodsburg | 18 | 0 | 18 |
| Meijer #161, Lexington | 0 | 1 | 1 |
| Meijer #168, Cold Spring | 0 | 9 | 9 |
| Meijer #184, Lexington | 0 | 3 | 3 |
| Meijer #272, Bowling Green | 0 | 3 | 3 |
| Meijer #288, Owensboro | 0 | 8 | 8 |
| Menards #3290, Owensboro | 0 | 18 | 18 |
| Menards #3367, Paducah | 0 | 17 | 17 |
| Menifee County Farm Supply, Frenchburg | 4 | 0 | 4 |
| MFS Alliance Inc, Edmonton | 3 | 0 | 3 |
| Mullins Supply Barn, Crittenden | 4 | 0 | 4 |
| Myers Feed & Farm Supply, Corinth | 8 | 0 | 8 |
| Nationwide Fence & Farmers Supply, Smithfield | 2 | 0 | 2 |
| Odom's Livestock Supply, Inc., Mayfield | 9 | 0 | 9 |
| Ohio Co. Farm & Garden Center, Hartford | 7 | 0 | 7 |
| Ollie's Bargain Outlet, Corbin | 0 | 7 | 7 |
| On Target Archery, Mays Lick | 1 | 0 | 1 |
| Orscheln Farm & Home, Murray | 8 | 17 | 25 |
| Owensboro Animal Hospital, Owensboro | 0 | 7 | 7 |
| Owensboro Grain Co LLC, Owensboro | 8 | 0 | 8 |
| Parker Farm Supply, Port Royal | 4 | 0 | 4 |
| Pauls Discount, Somerset | 1 | 2 | 3 |
| Peck's Farm Supply, LLC, Sharpsburg | 7 | 0 | 7 |
| Perdue Farms Inc, Livermore | 25 | 0 | 25 |
| Performance Feed & Grain, Monticello | 9 | 1 | 10 |
| Performance Feeds, Caneyville | 39 | 0 | 39 |
| Performance Feeds, Lancaster | 17 | 0 | 17 |
| Pet Food Center, Paducah | 0 | 16 | 16 |
| Pet Supermarket, Lexington | 0 | 25 | 25 |
| Pet Supplies Plus, Florence | 0 | 1 | 1 |
| Pet Supplies Plus, Independence | 0 | 13 | 13 |
| Pet Supplies Plus, Lexington | 0 | 9 | 9 |
| Pet Supplies Plus #4261, Owensboro | 1 | 39 | 40 |
| Pet Valu, Cold Spring | 0 | 18 | 18 |
| Pet Wants, Fort Thomas | 0 | 6 | 6 |
| Petco, Bowling Green | 0 | 16 | 16 |
| Petco, Frankfort | 0 | 8 | 8 |
| Petco, Pikeville | 0 | 14 | 14 |
| Petco, Versailles | 0 | 1 | 1 |
| Petland, Ashland | 0 | 15 | 15 |
| Petsense, Danville | 0 | 7 | 7 |
| Petsense, Glasgow | 0 | 37 | 37 |

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|---|------------------------|--------------------|-------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| Petsense, London | 0 | 11 | 11 |
| Petsense, Mayfield | 0 | 15 | 15 |
| Petsense, Middlesboro | 0 | 5 | 5 |
| Petsense, Mount Sterling | 0 | 16 | 16 |
| Petsense, Murray | 0 | 4 | 4 |
| Petsmart, Bowling Green | 0 | 8 | 8 |
| Petsmart, Florence | 0 | 2 | 2 |
| Petsmart, Paducah | 0 | 7 | 7 |
| Petsmart, Lexington | 0 | 3 | 3 |
| Petsmart, Richmond | 0 | 20 | 20 |
| Petsmart, Louisville | 0 | 7 | 7 |
| Petsmart #1968, Owensboro | 0 | 18 | 18 |
| Petsmart #2344, Newport | 0 | 8 | 8 |
| Petsmart #2384, Ashland | 0 | 7 | 7 |
| Petsmart #2760, Hopkinsville | 0 | 26 | 26 |
| Phillips Agri Farm, Campbellsville | 2 | 0 | 2 |
| Pilgrims Pride Corp, Mayfield | 6 | 0 | 6 |
| Prewitt Farm Supply, Inc., Williamsburg | 2 | 0 | 2 |
| Priceless IGA, Russellville | 0 | 3 | 3 |
| Quality Feeds Inc, Versailles | 2 | 4 | 6 |
| Ranchers LLC, Mayfield | 3 | 0 | 3 |
| Richardson's Feed & Pet Center, LLC, Shepherdsville | 1 | 8 | 9 |
| Ridley Block Operations Inc, Flemingsburg | 23 | 0 | 23 |
| Rip's Farm Center, Tolleboro | 48 | 0 | 48 |
| River Valley Animal Foods Tyson, Robards | 4 | 0 | 4 |
| Rose's, Somerset | 0 | 3 | 3 |
| Rose's Express, Russell Springs | 0 | 2 | 2 |
| Rural King Supply, Ashland | 7 | 1 | 8 |
| Rural King Supply, Georgetown | 10 | 0 | 10 |
| Rural King Supply, Glasgow | 0 | 12 | 12 |
| Rural King Supply, Madisonville | 16 | 0 | 16 |
| Rural King Supply, Maysville | 5 | 5 | 10 |
| Rural King Supply, Paducah | 7 | 14 | 21 |
| Rural King Supply, Pikeville | 2 | 2 | 4 |
| Rural King Supply, Powderly | 0 | 4 | 4 |
| Rural King Supply #12, Owensboro | 3 | 7 | 10 |
| Russell County Feed Mill Inc, Russell Springs | 19 | 0 | 19 |
| Sam's Club #4876, Bowling Green | 0 | 3 | 3 |
| Save-A-Lot, Bowling Green | 0 | 4 | 4 |
| Save-A-Lot, Monticello | 0 | 1 | 1 |
| Science Hill Milling Co, Science Hill | 16 | 0 | 16 |
| Seventy Feeds LLC, Eubank | 4 | 0 | 4 |
| Sligo Feed Mill, Pendleton | 10 | 3 | 13 |
| Southern Barker, Lexington | 0 | 5 | 5 |
| Southern Kentucky Feed & Grain, Bowling Green | 13 | 1 | 14 |
| Southern States, Alexandria | 5 | 0 | 5 |
| Southern States, Bowling Green | 4 | 0 | 4 |
| Southern States, Cadiz | 0 | 2 | 2 |

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|--|------------------------|--------------------|-------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| Southern States, Campbellsville | 3 | 0 | 3 |
| Southern States, Cynthiana | 5 | 0 | 5 |
| Southern States, Danville | 8 | 0 | 8 |
| Southern States, Emience | 7 | 0 | 7 |
| Southern States, Flemingsburg | 28 | 0 | 28 |
| Southern States, Franfort | 8 | 0 | 8 |
| Southern States, Georgetown | 9 | 0 | 9 |
| Southern States, Glasgow | 1 | 0 | 1 |
| Southern States, Hardinsburg | 9 | 0 | 9 |
| Southern States, Hopkinsville | 4 | 0 | 4 |
| Southern States, Lexington | 3 | 1 | 4 |
| Southern States, London | 9 | 0 | 9 |
| Southern States, Maysville | 4 | 0 | 4 |
| Southern States, Owenton | 1 | 0 | 1 |
| Southern States, Owingsville | 7 | 0 | 7 |
| Southern States, Paris | 6 | 0 | 6 |
| Southern States, Richmond | 0 | 1 | 1 |
| Southern States, Somerset | 12 | 0 | 12 |
| Spencer County Butcher Block, Taylorsville | 2 | 0 | 2 |
| Steel's Bottom Feed, Warsaw | 4 | 0 | 4 |
| Stephens Farm Supply, Inc., Olive Hill | 3 | 0 | 3 |
| Stockdale's, Bowling Green | 6 | 4 | 10 |
| Strite Custom Feeds LLC, Crab Orchard | 8 | 0 | 8 |
| Sunny Pastures Feed, Harrodsburg | 3 | 0 | 3 |
| T & H Feed Service, Inc., Lebanon | 1 | 1 | 2 |
| Teds Feed Store, Middlesboro | 2 | 0 | 2 |
| The Feed Bucket, Simpsonville | 4 | 0 | 4 |
| The Hyland Company Inc, Ashland | 12 | 18 | 30 |
| Tomahawk Transport, Salyersville | 8 | 1 | 9 |
| Tractor Supply Company #1128, Russellville | 0 | 3 | 3 |
| Tractor Supply Company #1296, Morehead | 3 | 0 | 3 |
| Tractor Supply Company #1298, LaGrange | 1 | 0 | 1 |
| Tractor Supply Company #1301, Paintsville | 1 | 0 | 1 |
| Tractor Supply Company #1387, Hazard | 2 | 0 | 2 |
| Tractor Supply Company #1392, Alexandria | 6 | 4 | 10 |
| Tractor Supply Company #1429, Columbia | 2 | 0 | 2 |
| Tractor Supply Company #1442, Murray | 2 | 1 | 3 |
| Tractor Supply Company #1516, Mt Sterling | 2 | 0 | 2 |
| Tractor Supply Company #1519, Grayson | 3 | 0 | 3 |
| Tractor Supply Company #1522, Berea | 0 | 1 | 1 |
| Tractor Supply Company #1631, Princeton | 5 | 2 | 7 |
| Tractor Supply Company #1685, Monticello | 2 | 0 | 2 |
| Tractor Supply Company #1957, Owensboro | 4 | 5 | 9 |
| Tractor Supply Company #1968, Beaver Dam | 4 | 0 | 4 |
| Tractor Supply Company #2021, Liberty | 0 | 5 | 5 |
| Tractor Supply Company #2216, Barbourville | 2 | 0 | 2 |
| Tractor Supply Company #2310, Louisville | 2 | 0 | 2 |
| Tractor Supply Company #2312, Carrollton | 5 | 0 | 5 |

Table 9. Report of sampling locations in 2021.

| Business Name | Sample # by Feed Type | | |
|--|------------------------|--------------------|-------------|
| | Livestock & Ingredient | Pet and Speciality | Total |
| Tractor Supply Company #2355, Benton | 1 | 5 | 6 |
| Tractor Supply Company #248, Glasgow | 1 | 20 | 21 |
| Tractor Supply Company #2533, Mt. Washington | 3 | 0 | 3 |
| Tractor Supply Company #358, Georgetown | 7 | 0 | 7 |
| Tractor Supply Company #403, Nicholasville | 6 | 0 | 6 |
| Tractor Supply Company #405, Somerset | 1 | 0 | 1 |
| Tractor Supply Company #416, Campbellsville | 0 | 7 | 7 |
| Tractor Supply Company #451, Maysville | 4 | 2 | 6 |
| Tractor Supply Company #536, Danville | 4 | 1 | 5 |
| Tractor Supply Company #593, Leitchfield | 0 | 12 | 12 |
| Tractor Supply Company #601, Franklin | 0 | 2 | 2 |
| Tractor Supply Company #613, Lawrenceburg | 5 | 0 | 5 |
| Tractor Supply Company #626, Bardstown | 0 | 6 | 6 |
| Tractor Supply Company #628, London | 1 | 0 | 1 |
| Tractor Supply Company #705, Hopkinsville | 1 | 1 | 2 |
| Tractor Supply Company #719, Mayfield | 3 | 6 | 9 |
| Tractor Supply Company #749, Williamstown | 3 | 0 | 3 |
| Trader Joe's, Lexington | 0 | 1 | 1 |
| Trader Joe's, Louisville | 0 | 2 | 2 |
| Tri-County Fertilizer Co., Inc., Richmond | 7 | 0 | 7 |
| Trigg County Cattleman Association, Cadiz | 6 | 0 | 6 |
| Tyson Foods Feed Mill, Sebree | 15 | 0 | 15 |
| United Livestock Commodities, Mayfield | 4 | 0 | 4 |
| Valley Farm Center Inc, Monticello | 1 | 0 | 1 |
| Walgreens #7685, Bowling Green | 0 | 1 | 1 |
| Walmart #1675, Lebanon | 1 | 8 | 9 |
| Walmart #204, Princeton | 0 | 3 | 3 |
| Walmart #282, Franklin | 0 | 2 | 2 |
| Walmart #569, Columbia | 0 | 11 | 11 |
| Walmart #655, Madisonville | 1 | 2 | 3 |
| Walmart #825, Stanford | 0 | 9 | 9 |
| Warner Fertilizer, Monticello | 2 | 0 | 2 |
| Warner Fertilizer, Nancy | 3 | 0 | 3 |
| West Feeds, Barbourville | 2 | 0 | 2 |
| Whitetail Heaven Elite Outdoor Superstore, Nicholasville | 1 | 9 | 10 |
| Whole Foods Market, Lexington | 0 | 6 | 6 |
| Whole Foods Market, Louisville | 0 | 5 | 5 |
| Willard Milling, Inc., Grayson | 18 | 15 | 33 |
| Winchester Feeds Inc, Winchester | 9 | 0 | 9 |
| Winchester Nutrition, Winchester | 5 | 0 | 5 |
| Woodford Feed Co Inc, Versailles | 21 | 0 | 21 |
| Yoders Feed & Supply, Russellville | 15 | 0 | 15 |
| Totals | 1628 | 1154 | 2782 |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|--|---------|---------|---------|-------|---------|---------|---|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| 360 Pet Nutrition, West Hills, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| A Better Treat, El Monte, CA | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Acela Biomedical Inc., Maysville, KY | 1 | 0 | 0% | 3 | 1 | 33% | C Protein (1) AH Fat (1) |
| Adairville Feed Mill, Adairville, KY | 8 | 8 | 100% | 51 | 51 | 100% | |
| Adairville Feed Mill #2, Russellville, KY | 18 | 18 | 100% | 110 | 110 | 100% | |
| ADM Alliance Nutrition Inc, Quincy, IL | 24 | 17 | 71% | 206 | 196 | 95% | C Protein (1) P (1) Salt (2) Mg (1) Vit A (3) Monensin (2) |
| ADM Corn Processing, Decatur, IL | 4 | 4 | 100% | 11 | 11 | 100% | |
| ADM Milling, Overland Park, KS | 1 | 1 | 100% | 3 | 3 | 100% | |
| After Shock Deer LLC, Byrnes Mill, MO | 1 | 1 | 100% | 3 | 3 | 100% | |
| AG Processing, Inc., Omaha, NE | 1 | 1 | 100% | 4 | 4 | 100% | |
| Against The Grain, Wheeling, IL | 3 | 1 | 33% | 31 | 23 | 74% | AH Fat (2) Ca (2) P (2) Ash (2) |
| Ainsworth Pet Nutrition, Meadville, PA | 8 | 8 | 100% | 82 | 82 | 100% | |
| Albany Building Center, Inc., Albany, KY | 1 | 1 | 100% | 8 | 8 | 100% | |
| Aldi Inc, Batavia, IL | 4 | 3 | 75% | 51 | 49 | 96% | Ca (1) P (1) |
| All American Pets LLC, Los Angeles, CA | 2 | 0 | 0% | 6 | 4 | 67% | AH Fat (2) |
| Allen County Farmers Service, Inc., Scottsville, KY | 7 | 4 | 57% | 48 | 45 | 94% | C Protein (2) Ca (1) |
| Alltech Inc, Nicholasville, KY | 2 | 2 | 100% | 5 | 5 | 100% | |
| American Journey LLC, Dania Beach, FL | 2 | 2 | 100% | 26 | 26 | 100% | |
| American Natural Premium, Cedarburg, WI | 3 | 3 | 100% | 39 | 39 | 100% | |
| American Tuna Inc, Bonita, CA | 1 | 0 | 0% | 13 | 12 | 92% | Ca (1) |
| Anderson's Marathon Ethanol LLC, Greenville, OH | 2 | 2 | 100% | 8 | 8 | 100% | |
| Ani-Logics Outdoors LLC, Worthington, MN | 2 | 2 | 100% | 17 | 17 | 100% | |
| Antler King Trophy Products, Inc., Black River Falls, WI | 1 | 0 | 0% | 9 | 8 | 89% | Vit A (1) |
| Arcus Hunting LLC, Covington, GA | 2 | 0 | 0% | 6 | 2 | 33% | C Protein (2) C Fiber (2) |
| Ark Naturals, Naples, FL | 1 | 1 | 100% | 3 | 3 | 100% | |
| Aramada Grain Co, Armada, MI | 1 | 0 | 0% | 13 | 12 | 92% | AH Fat (1) |
| Arnold Feed & Seed, Campbellsville, KY | 6 | 4 | 67% | 40 | 37 | 93% | K (1) Zn (2) |
| Arthur Pet Products, Salisbury, MD | 4 | 0 | 0% | 13 | 7 | 54% | C Protein (3) AH Fat (3) |
| Ashland Milling Company, Inc., Ashland, KY | 3 | 3 | 100% | 15 | 15 | 100% | |
| Associated Wholesale Grocers, Kansas City, KS | 5 | 5 | 100% | 64 | 64 | 100% | |
| Authority Pet Food Co, Phoenix, AZ | 3 | 3 | 100% | 38 | 38 | 100% | |
| B & S Feed Store, Middlesboro, KY | 1 | 1 | 100% | 8 | 8 | 100% | |
| Badger State Ethanol, Monroe, WI | 1 | 1 | 100% | 5 | 5 | 100% | |
| Bagdad Roller Mills, Inc., Bagdad, KY | 39 | 27 | 69% | 268 | 255 | 95% | C Protein (7) AD Fiber (2) P (2) Salt (1) Cu (1) |
| Bagel House LLC, Lake Zurich, IL | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|--|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Bardstown Mills, Inc., Bardstown, KY | 35 | 3 | 9% | 279 | 227 | 81% | C Protein (32) C Fiber (1) AD Fiber (1) Ca (2) P (2) Salt (2) Cu (6) K (2) Vit A (4) |
| Barkworthies, Richmond, VA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Barton Brands Ltd, Bardstown, KY | 1 | 0 | 0% | 3 | 2 | 67% | C Protein (1) |
| BB USA Inc., Mississauga, ON | 2 | 0 | 0% | 6 | 2 | 33% | C Protein (2) AH Fat (2) |
| Bears Bone Bakery, Evansville, IN | 2 | 2 | 100% | 6 | 6 | 100% | |
| Belstra Milling Company Inc, De Motte, IN | 4 | 4 | 100% | 25 | 25 | 100% | |
| Bench & Field Pet Foods LLC, Miskawaka, IN | 1 | 1 | 100% | 12 | 12 | 100% | |
| Benson Hill, St. Louis, MO | 2 | 2 | 100% | 6 | 6 | 100% | |
| Best Breed Pet Foods, Findlay, OH | 1 | 1 | 100% | 13 | 13 | 100% | |
| Big Creek Foods LLC, Gainesville, GA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Big Heart Pet Brands, Pittsburgh, PA | 11 | 11 | 100% | 83 | 83 | 100% | |
| Big K Mills, Inc., Fort Recovery, OH | 1 | 1 | 100% | 3 | 3 | 100% | |
| Biozyme Incorporated, St Joseph, MO | 5 | 3 | 60% | 53 | 49 | 92% | Cu (1) Fe (1) Se (1) Vit A (1) |
| Bixbi Pet, Boulder, CO | 4 | 1 | 25% | 42 | 39 | 93% | C Protein (1) AH Fat (1) Ca:P (1) |
| Blandford Mills, LLC, Springfield, KY | 2 | 1 | 50% | 12 | 11 | 92% | K (1) |
| Bloomington Specialty Products, Bloomington, IN | 2 | 2 | 100% | 2 | 2 | 100% | |
| Blue Buffalo Co LTD, Wilton, CT | 20 | 20 | 100% | 219 | 219 | 100% | |
| Blue Dog Bakery, Seattle, WA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Blue Ridge Koi & Goldfish, Kernersville, NC | 1 | 1 | 100% | 3 | 3 | 100% | |
| Blue Ridge Naturals, Murphy, NC | 1 | 0 | 0% | 3 | 0 | 0% | C Protein (1) Fat (1) Moisture (1) |
| Bluegrass Barkery - Shaker Run, Lexington, KY | 1 | 0 | 0% | 3 | 1 | 33% | C Protein (1) AH Fat (1) |
| Bluegrass Farm Supply, Marion, KY | 11 | 7 | 64% | 87 | 83 | 95% | C Protein (1) Salt (2) Se (1) |
| Bluegrass Feed & Supply LLC, Hustonville, KY | 3 | 3 | 100% | 18 | 18 | 100% | |
| Bluegrass Seed & Fertilizer, Inc., Bardstown, KY | 1 | 1 | 100% | 8 | 8 | 100% | |
| Bocce's Bakery, Brooklyn, NY | 2 | 1 | 50% | 6 | 4 | 67% | C Protein (1) AH Fat (1) |
| Boehringer-Ingelheim Vetmedica, Inc., St. Joseph, MO | 2 | 2 | 100% | 6 | 6 | 100% | |
| Bone Extreme, Harned, KY | 1 | 0 | 0% | 7 | 4 | 57% | Cu (1) Se (1) Vit A (1) |
| Boss Buck, Grand Prairie, TX | 1 | 1 | 100% | 1 | 1 | 100% | |
| Boss Dog Brands Inc., Duvall, WA | 5 | 4 | 80% | 35 | 33 | 94% | C Protein (1) Moisture (1) |
| Bowlin's Feed, Inc., Albany, KY | 1 | 1 | 100% | 6 | 6 | 100% | |
| Bowman Milling, Pochahontas, MO | 2 | 1 | 50% | 13 | 12 | 92% | Zn (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Bratcher Ag LLC, Crab Orchard, KY | 13 | 6 | 46% | 77 | 66 | 86% | C Protein (2) Fat (1) Ca (4) K (1) Se (1) Zn (1) Decox (1) |
| Brodhead Farm Market, Brodhead, KY | 4 | 3 | 75% | 33 | 32 | 97% | Fe (1) |
| Brooksville Farm Supply, Brooksville, KY | 12 | 4 | 33% | 76 | 67 | 88% | C Protein (7) Ca (1) Salt (1) |
| Bubba Rose Biscuit Co, Boonton, NJ | 1 | 0 | 0% | 3 | 1 | 33% | C Protein (1) AH Fat (1) |
| Buck Stalker Attractants, Burnside, KY | 1 | 0 | 0% | 10 | 8 | 80% | Mg (1) K (1) |
| Buckley Bros Inc, Wilmington, OH | 5 | 4 | 80% | 50 | 49 | 98% | ND Fiber (1) |
| Buckley Pet, Boulder, CO | 2 | 0 | 0% | 26 | 24 | 92% | Ca (1) Ca:P (1) |
| Buddy Biscuits, Chesterfield, MO | 1 | 0 | 0% | 2 | 1 | 50% | C Protein (1) |
| Buddy Valastro Pet, Janesville, WI | 3 | 1 | 33% | 9 | 6 | 67% | C Protein (2) AH Fat (1) |
| Buffalo Trace Distillery Inc, Frankfort, KY | 1 | 1 | 100% | 3 | 3 | 100% | |
| Bunge NA (East) LLC, Decatur, IN | 1 | 1 | 100% | 3 | 3 | 100% | |
| Bunge NA (East) LLC, Morristown, IN | 9 | 9 | 100% | 27 | 27 | 100% | |
| Bunge NA Inc, Cairo, IL | 4 | 4 | 100% | 12 | 12 | 100% | |
| Burkman Feeds, Bowling Green, KY | 5 | 4 | 80% | 30 | 29 | 97% | C Protein (1) |
| Burkman Feeds, Columbia, KY | 1 | 1 | 100% | 7 | 7 | 100% | |
| Burkman Feeds, Edmonton, KY | 2 | 0 | 0% | 18 | 15 | 83% | C Protein (1) Ca (1) Lasalocid (1) Monensin (1) |
| Burkman Feeds, Harned, KY | 5 | 2 | 40% | 28 | 24 | 86% | C Protein (2) Salt (1) Cu (1) |
| Burkman Feeds, London, KY | 15 | 11 | 73% | 101 | 95 | 94% | C Protein (3) Fat (1) Zn (1) Lasalocid (1) |
| Burkman Feeds LLC, Danville, KY | 43 | 32 | 74% | 394 | 378 | 96% | C Protein (3) C Fiber (1) Salt (1) Co (1) Cu (1) Mn (1) Se (4) S (1) Vit A (2) |
| Burkman Feeds LLC, Glasgow, KY | 26 | 22 | 85% | 132 | 127 | 96% | C Protein (2) Ca (1) Salt (1) |
| Calhouns Feed Service, Madisonville, KY | 4 | 4 | 100% | 24 | 24 | 100% | |
| Can Am Pet Treats Inc, Vernon, BC | 1 | 0 | 0% | 3 | 2 | 67% | C Protein (1) |
| Canidae Corporation, Norco, CA | 6 | 4 | 67% | 76 | 72 | 95% | Ca (1) P (1) Na (1) Ca:P (1) |
| Cardinal Laboratories Inc, Azusa, CA | 2 | 2 | 100% | 6 | 6 | 100% | |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|---|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Cargill Animal Nutrition, Minneapolis, MN | 101 | 83 | 82% | 868 | 846 | 97% | C Protein (10) ND Fiber (1) Cu (1) Fe (3) K (2) Na (1) S (2) Zn (1) Vit A (1) |
| Cargill Incorporated, Minneapolis, MN | 2 | 2 | 100% | 6 | 6 | 100% | |
| Carnivore Meat Co LLC, Green Bay, WI | 2 | 0 | 0% | 26 | 20 | 77% | AH Fat (1) Ca (2) P (1) Zn (1) Ca:P (1) |
| Carolina Prime Pet, Lenoir, NC | 2 | 1 | 50% | 6 | 5 | 83% | C Protein (1) |
| Castor & Pollux Pet Works, Amarillo, TX | 5 | 3 | 60% | 66 | 63 | 95% | AH Fat (1) Ash (2) |
| Cedar Lake Products Inc, Fayetteville, AR | 3 | 2 | 67% | 14 | 11 | 79% | Cu (1) Mn (1) Zn (1) |
| Central Aquatic, Franklin, WI | 2 | 0 | 0% | 8 | 6 | 75% | Ca (2) |
| Central Farm Supply of KY, Inc., Louisville, KY | 20 | 13 | 65% | 152 | 143 | 94% | C Protein (3) Salt (2) Cu (1) Zn (2) Vit A (1) |
| Central Farmers Supply, Inc., Greensburg, KY | 6 | 5 | 83% | 35 | 34 | 97% | ND Fiber (1) |
| Champion Petfoods USA Inc, Auburn, KY | 4 | 4 | 100% | 49 | 49 | 100% | |
| Chicken Soup for the Pet Lover's Soul, Cos Cob, CT | 8 | 8 | 100% | 96 | 96 | 100% | |
| CHS Inc, Inver Grove Heights, MN | 2 | 2 | 100% | 8 | 8 | 100% | |
| Claudia's Canine Bakery, Maumelle, AR | 6 | 5 | 83% | 18 | 17 | 94% | C Protein (1) |
| Clements Ag, Springfield, KY | 1 | 0 | 0% | 6 | 5 | 83% | K (1) |
| Commonwealth Agri-Energy LLC, Hopkinsville, KY | 2 | 2 | 100% | 8 | 8 | 100% | |
| Consolidated Grain & Barge, Mt Vernon, IN | 5 | 5 | 100% | 15 | 15 | 100% | |
| Consumers Supply Distributing, North Sioux City, SD | 3 | 3 | 100% | 17 | 17 | 100% | |
| Correct Foods, Inc., Cynthiana, KY | 1 | 1 | 100% | 13 | 13 | 100% | |
| Costco Wholesale Corporation, Seattle, WA | 2 | 2 | 100% | 29 | 29 | 100% | |
| Country Acres Feed Co Inc, Brentwood, MO | 1 | 1 | 100% | 6 | 6 | 100% | |
| CPC Commodities LLC, Fountain Run, KY | 66 | 52 | 79% | 626 | 606 | 97% | C Protein (6) C Fiber (1) ND Fiber (1) Ca (3) P (1) Co (1) Se (2) Vit A (1) Lasalocid (2) Monensin (2) |
| Cullman Blend Mill, Cullman, AL | 1 | 1 | 100% | 6 | 6 | 100% | |
| D & D Commodities, Stephen, MN | 3 | 1 | 33% | 8 | 6 | 75% | AH Fat (2) |
| Dalvia Group LLC, Jackson, WY | 1 | 0 | 0% | 4 | 3 | 75% | AH Fat (1) |
| Darling International Inc, Irving, TX | 7 | 6 | 86% | 18 | 17 | 94% | C Fiber (1) |
| Dave's Pet Food, Agawam, MA | 2 | 2 | 100% | 19 | 19 | 100% | |
| Dawson Family Feed & Seed, Russellville, KY | 15 | 15 | 100% | 112 | 112 | 100% | |
| Day & Day Feed Mill, Columbia, KY | 5 | 4 | 80% | 27 | 26 | 96% | C Protein (1) |
| Dechra Veterinary Products, Overland Park, KS | 1 | 1 | 100% | 3 | 3 | 100% | |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|--|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Deer:30, Madisonville, KY | 3 | 1 | 33% | 17 | 13 | 76% | Ca (2) P (1) Vit A (1) Fat (1) |
| Diageo/Bulleit Distilling, Shelbyville, KY | 1 | 0 | 0% | 3 | 2 | 67% | |
| Diamond Pet Foods Co, Meta, MO | 4 | 4 | 100% | 52 | 52 | 100% | |
| Diamond V, Cedar Rapids, IA | 1 | 1 | 100% | 4 | 4 | 100% | |
| Dick Van Patten's, Burbank, CA | 6 | 5 | 83% | 58 | 57 | 98% | Ca:P (1) |
| Diggin Your Dog, Reno, NV | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Dinovite Inc., Crittenden, KY | 10 | 7 | 70% | 27 | 23 | 85% | C Protein (1) AH Fat (3) |
| Dog Mamma's LLC, Stuart, FL | 1 | 1 | 100% | 2 | 2 | 100% | |
| Dolgencorp LLC, Goodlettsville, TN | 8 | 8 | 100% | 77 | 77 | 100% | |
| Domain Outdoors, Hudson, WI | 1 | 1 | 100% | 5 | 5 | 100% | |
| Dr. Marty, Woodland Hills, CA | 2 | 0 | 0% | 28 | 22 | 79% | AH Fat (2) Ca (1) Mn (1) Ca:P (2) |
| Durvet Inc, Blue Springs, MO | 1 | 1 | 100% | 10 | 10 | 100% | |
| E3 Ranch, Fort Scott, KS | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Earth Animal, Westport, CT | 4 | 2 | 50% | 42 | 39 | 93% | C Protein (1) AH Fat (1) P (1) |
| Effingham Equity, Effingham, IL | 1 | 1 | 100% | 9 | 9 | 100% | |
| Egglan's Best, LLC, Malvern, PA | 1 | 0 | 0% | 13 | 12 | 92% | Fe (1) |
| Einstein Pets LLC, Oxford, GA | 2 | 1 | 50% | 6 | 5 | 83% | Moisture (1) |
| Elive LLC, New Berlin, WI | 2 | 0 | 0% | 6 | 4 | 67% | AH Fat (2) |
| Enviroflight LLC, Maysville, KY | 5 | 5 | 100% | 21 | 21 | 100% | |
| EST LLC, Covington, GA | 1 | 0 | 0% | 4 | 3 | 75% | Moisture (1) |
| Ethical Product Inc, Bloomfield, NJ | 3 | 3 | 100% | 6 | 6 | 100% | |
| Evangers Dog & Cat Food Co Inc, Wheeling, IL | 5 | 1 | 20% | 55 | 48 | 87% | AH Fat (2) Ca (2) P (1) K (1) Zn (1) |
| Evolved Habitats, New Roads, LA | 2 | 1 | 50% | 15 | 14 | 93% | S (1) |
| Excel Equine, Louisville, KY | 17 | 11 | 65% | 169 | 161 | 95% | AD Fiber (4) ND Fiber (3) Cu (1) |
| Exclusively Pet Inc, Milwaukee, WI | 1 | 1 | 100% | 3 | 3 | 100% | |
| F M Browns Sons Inc, Sinking Spring, PA | 4 | 4 | 100% | 19 | 19 | 100% | |
| Faithway Feed Co Inc, Guntersville, AL | 7 | 6 | 86% | 68 | 67 | 99% | C Protein (1) |
| Farm House, Milton, WV | 3 | 0 | 0% | 21 | 14 | 67% | Ca (3) P (3) Salt (1) |
| Farmers Choice Feed Mill, Kirksey, KY | 2 | 2 | 100% | 21 | 21 | 100% | |
| Farmers Feed Mills Inc, Lexington, KY | 20 | 19 | 95% | 197 | 196 | 99% | ND Fiber (1) |
| Farmina Pet Foods, New York, NY | 2 | 1 | 50% | 24 | 23 | 96% | S (1) |
| Farnam Co - Horse Products Division, Phoenix, AZ | 1 | 1 | 100% | 7 | 7 | 100% | |
| Feed Blenders Inc., Lebanon, KY | 3 | 0 | 0% | 23 | 15 | 65% | C Protein (1) Fat (1) C Fiber (2) Ca (1) P (2) Salt (1) |
| Feed Solutions, Arden Hills, MN | 6 | 4 | 67% | 55 | 53 | 96% | Zn (2) |
| Feeders Supply - Corporate, Louisville, KY | 2 | 1 | 50% | 11 | 10 | 91% | Zn (1) |
| Fertrell Co, Bainbridge, PA | 1 | 1 | 100% | 5 | 5 | 100% | |

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| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|---|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Finish Line Horse Products, Bensenville, IL | 1 | 1 | 100% | 10 | 10 | 100% | |
| Five Star Feed Services, Guthrie, KY | 6 | 3 | 50% | 57 | 54 | 95% | C Protein (2) Na (1) |
| Fleming County Farm Supply, Flemingsburg, KY | 1 | 0 | 0% | 12 | 10 | 83% | C Protein (1) Se (1) |
| Florida Marine Research, Sarasota, FL | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Fluker Farms Inc, Port Allen, LA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Focus-On Tools, Logan, UT | 1 | 1 | 100% | 4 | 4 | 100% | |
| Foodhold USA, LLC, Landover, MD | 10 | 8 | 80% | 98 | 96 | 98% | Ca (1) P (1) |
| Formax Feeds, Danville, KY | 23 | 18 | 78% | 182 | 177 | 97% | C Protein (1) Fat (1) Ca (1) Vit A (2) |
| Four Paws Products LTD, Neptune City, NJ | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Frank L Hinton & Son, Plummers Landing, KY | 30 | 25 | 83% | 217 | 211 | 97% | C Protein (3) Salt (1) Se (2) |
| Freely Pet LLC, Maplewood, MO | 1 | 1 | 100% | 12 | 12 | 100% | |
| Fresh Pet, Secaucus, NJ | 1 | 1 | 100% | 13 | 13 | 100% | |
| Fromm Family Foods LLC, Mequon, WI | 14 | 12 | 86% | 149 | 146 | 98% | Ca (1) Zn (1) Ca:P (1) |
| Furst-McNess Co, Freeport, IL | 5 | 4 | 80% | 22 | 20 | 91% | C Protein (1) Ca (1) |
| Gaines Family Farmstead, Hueytown, AL | 2 | 1 | 50% | 6 | 5 | 83% | AH Fat (1) |
| Garmon Corp, Temecula, CA | 1 | 0 | 0% | 8 | 7 | 88% | Mn (1) |
| Gavilon Ingredients LLC, Omaha, NE | 1 | 0 | 0% | 3 | 2 | 67% | Fat (1) |
| Gentle Giants Products Inc., Norco, CA | 1 | 1 | 100% | 12 | 12 | 100% | |
| GHC Milling Co, Fordsville, KY | 7 | 6 | 86% | 54 | 53 | 98% | C Protein (1) |
| Give Pet, Overland Park, KS | 1 | 1 | 100% | 3 | 3 | 100% | |
| Glo Marr Products, Lawrenceburg, KY | 1 | 0 | 0% | 12 | 9 | 75% | Cu (1) Zn (1) Vit A (1) |
| Global Harvest Birdseed, Seattle, WA | 4 | 1 | 25% | 17 | 13 | 76% | AH Fat (2) Na (1) Zn (1) |
| Global One Pet, Aliso Viejo, CA | 2 | 1 | 50% | 16 | 13 | 81% | Ca (1) P (1) Ca:P (1) |
| Golden Rod Feeds, Liberty, KY | 4 | 3 | 75% | 30 | 28 | 93% | Vit A (1) Lasalocid (1) |
| Gott Pet Products LLC, St Francis, WI | 5 | 4 | 80% | 25 | 23 | 92% | C Protein (1) AH Fat (1) |
| Graham Feed Co, Terre Haute, IN | 1 | 1 | 100% | 1 | 1 | 100% | |
| Grain Processing Corp - Indiana, Washington, IN | 3 | 3 | 100% | 10 | 10 | 100% | |
| Grandma Lucy's, Rancho Santa Margarita, CA | 5 | 5 | 100% | 15 | 15 | 100% | |
| Grandma Mae's Country Naturals, New York, NY | 2 | 2 | 100% | 25 | 25 | 100% | |
| Greeley Seed Company, Greeley, CO | 1 | 1 | 100% | 6 | 6 | 100% | |
| Green Coast Pet, Pasadena, CA | 2 | 1 | 50% | 4 | 3 | 75% | AH Fat (1) |
| Green Juju, Seattle, WA | 2 | 1 | 50% | 6 | 5 | 83% | C Protein (1) |
| Green River Feed Mill Inc, Morgantown, KY | 8 | 4 | 50% | 38 | 34 | 89% | C Protein (3) Zn (1) |
| Greenbrier International, Chesapeake, VA | 5 | 5 | 100% | 35 | 35 | 100% | |
| Greenleaf Commodities, Danville, KY | 3 | 3 | 100% | 18 | 18 | 100% | |
| Gro-Tec Inc, Modoc, IN | 6 | 6 | 100% | 34 | 34 | 100% | |
| Halo-Purely for Pets, Tampa, FL | 6 | 6 | 100% | 68 | 68 | 100% | |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|---|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Hansen-Mueller Co, Omaha, NE | 7 | 7 | 100% | 21 | 21 | 100% | |
| Happy Egg Feeds, Navasota, TX | 1 | 0 | 0% | 6 | 5 | 83% | C Protein (1) |
| Happy Hen Treats, Boerne, TX | 1 | 1 | 100% | 5 | 5 | 100% | |
| Happy Howies Inc, Detroit, MI | 3 | 3 | 100% | 8 | 8 | 100% | |
| Hardin County Milling Co Inc, Elizabethtown, KY | 9 | 4 | 44% | 69 | 63 | 91% | C Protein (4) Ca (1) Salt (1) |
| Hartz Mountain Corporation, Secaucus, NJ | 2 | 2 | 100% | 9 | 9 | 100% | |
| Hays Feed & Seed LLC, Smiths Grove, KY | 9 | 0 | 0% | 85 | 71 | 84% | C Protein (3) Fat (1) AD Fiber (1) Ca (5) P (1) Cu (2) Zn (1) |
| Health Extension Pet Care, Deer Park, NY | 3 | 2 | 67% | 39 | 38 | 97% | Ash (1) |
| Healthy Chews - Petmate, Arlington, TX | 1 | 1 | 100% | 3 | 3 | 100% | |
| Heartbreak Ridge Farm Supply, Clay City, KY | 1 | 1 | 100% | 7 | 7 | 100% | |
| Herbsmith Inc, Hartland, WI | 1 | 1 | 100% | 3 | 3 | 100% | |
| Hero Pet Brands LLC, Dallas, TX | 2 | 1 | 50% | 16 | 15 | 94% | K (1) |
| Higgins Group Corporation, Miami, FL | 4 | 3 | 75% | 16 | 15 | 94% | C Protein (1) |
| Hikari Sales USA Inc, Hayward, CA | 2 | 1 | 50% | 10 | 9 | 90% | AH Fat (1) |
| Hilander Feed Inc, Georgetown, KY | 3 | 2 | 67% | 15 | 14 | 93% | C Protein (1) |
| Hills Pet Nutrition Inc, Topeka, KS | 8 | 8 | 100% | 45 | 45 | 100% | |
| Hillside Farms, Irvine, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Himalayan Corporation, Mukilteo, WA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Hirsch Feed & Farm Supply Inc., Thayer, MO | 5 | 2 | 40% | 33 | 30 | 91% | C Protein (1) Lasalocid (2) |
| Holi, Roselle Park, NJ | 1 | 1 | 100% | 3 | 3 | 100% | |
| Hollywood Feed LLC, Memphis, TN | 2 | 0 | 0% | 6 | 4 | 67% | C Protein (1) AH Fat (1) |
| Hoover Feed Mill, Scottsville, KY | 16 | 15 | 94% | 101 | 100 | 99% | C Protein (1) |
| Hubbard Feeds Inc, Mankato, MN | 10 | 9 | 90% | 92 | 91 | 99% | Se (1) |
| Huron Commodities, Clinton, ON | 1 | 1 | 100% | 4 | 4 | 100% | |
| I and Love and You, Boulder, CO | 1 | 1 | 100% | 12 | 12 | 100% | |
| IcelandicPlus LLC, Ft. Washington, PA | 1 | 0 | 0% | 4 | 3 | 75% | Ash (1) |
| IMS Pet Industries, Wood Ridge, NJ | 4 | 4 | 100% | 12 | 12 | 100% | |
| Inaba Foods (USA) Inc, Torrance, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Ingredion Inc, Westchester, IL | 1 | 1 | 100% | 4 | 4 | 100% | |
| Inter American, Cincinnati, OH | 10 | 6 | 60% | 80 | 76 | 95% | C Protein (1) AH Fat (3) |
| Intl Pet Supplies/Distributing, San Diego, CA | 9 | 8 | 89% | 97 | 96 | 99% | AH Fat (1) |
| iVet, Parkville, MO | 6 | 6 | 100% | 60 | 60 | 100% | |
| J & C Pet Supply, Lakewood Township, NJ | 2 | 0 | 0% | 6 | 2 | 33% | C Protein (2) AH Fat (2) |
| J & H Feed & Tack Inc, Paintsville, KY | 9 | 5 | 56% | 63 | 58 | 92% | C Protein (3) C Fiber (1) Ca (1) |
| J E Ronicker Labs Inc, West Milton, OH | 4 | 1 | 25% | 24 | 20 | 83% | Ca (2) Mg (1) Ash (1) |
| JBS USA LLC, Souderton, PA | 1 | 0 | 0% | 5 | 3 | 60% | Ca (1) P (1) |
| Jeffries Feed Seed & Supply Inc, Campbellsville, KY | 5 | 3 | 60% | 26 | 24 | 92% | C Protein (1) Ca (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|--|---------|---------|---------|-------|---------|---------|---|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Jenkins Feed Service , Adams, TN | 6 | 3 | 50% | 49 | 46 | 94% | C Protein (1) Fat (2) |
| Jim Beam Brands Co, Clermont, KY | 1 | 1 | 100% | 3 | 3 | 100% | |
| Jiminy's LLC, Berkeley, CA | 2 | 1 | 50% | 16 | 13 | 81% | AH Fat (1) Ca (1) Ca:P (1) |
| Jobe's Company, Paris, KY | 1 | 1 | 100% | 8 | 8 | 100% | |
| Johnston Elevator, Clare, MI | 3 | 0 | 0% | 39 | 25 | 64% | C Protein (2) Ca (1) Salt (1) Co (2) Cu (1) Fe (1) Mn (2) K (1) S (1) Zn (2) |
| Jones Naturals LLC, Rockford, IL | 1 | 1 | 100% | 3 | 3 | 100% | |
| Joy Pet Foods, Pinckneyville, IL | 1 | 1 | 100% | 13 | 13 | 100% | |
| JRB Foods Inc, Sharon Center, OH | 1 | 1 | 100% | 3 | 3 | 100% | |
| JSW Farm Supply, West Liberty, KY | 5 | 3 | 60% | 37 | 35 | 95% | C Protein (1) Salt (1) |
| Just Food for Dogs LLC, Irvine, CA | 1 | 0 | 0% | 13 | 12 | 92% | C Protein (1) |
| K9 Granola Factory, Thomasville, PA | 2 | 1 | 50% | 6 | 5 | 83% | AH Fat (1) |
| K9 Natural Food, Christchurch, NZ | 4 | 4 | 100% | 50 | 50 | 100% | |
| Kalmbach Feeds Inc, Upper Sandusky, OH | 27 | 23 | 85% | 244 | 237 | 97% | C Protein (2) AD Fiber (1) ND Fiber (1) Se (1) Zn (1) Lasalocid (1) |
| KAS Pet, Westbury, NY | 1 | 0 | 0% | 4 | 2 | 50% | AH Fat (1) Zn (1) |
| Kasel Industries, Denver, CO | 2 | 0 | 0% | 7 | 4 | 57% | AH Fat (2) Salt (1) |
| Kaytee Products Inc, Chilton, WI | 14 | 13 | 93% | 51 | 50 | 98% | AH Fat (1) |
| KDR Pet Treats LLC, Fresno, CA | 2 | 1 | 50% | 6 | 5 | 83% | C Protein (1) |
| Kee's Farm Service & Supply, LLC., Grayson, KY | 1 | 1 | 100% | 6 | 6 | 100% | |
| Kelly Foods Corporation, Medina, OH | 6 | 6 | 100% | 48 | 48 | 100% | |
| Kent Nutrition Group Inc, Muscatine, IA | 6 | 5 | 83% | 58 | 57 | 98% | C Protein (1) |
| Kentucky Equine Research Inc, Versailles, KY | 2 | 2 | 100% | 21 | 21 | 100% | |
| Kentucky Nutrition Service Inc, Nancy, KY | 4 | 3 | 75% | 42 | 40 | 95% | C Fiber (1) Se (1) |
| Kentucky Organic Farm and Feed Inc, Guthrie, KY | 16 | 14 | 88% | 111 | 109 | 98% | C Protein (1) P (1) |
| Kentucky Performance Products, Versailles, KY | 2 | 2 | 100% | 10 | 10 | 100% | |
| Knifley Ag Supply & Hardware, Campbellsville, KY | 1 | 1 | 100% | 6 | 6 | 100% | |
| Koch Chinchilla Ranch, Cincinnati, OH | 1 | 1 | 100% | 6 | 6 | 100% | |
| Kong Company, Golden, CO | 4 | 2 | 50% | 15 | 13 | 87% | C Protein (2) |
| Kreamer Feed Inc, Kreamer, PA | 3 | 3 | 100% | 17 | 17 | 100% | |
| Kroger, Cincinnati, OH | 15 | 14 | 93% | 159 | 158 | 99% | C Protein (1) |
| La Crosse Milling Company, Cochrane, WI | 1 | 1 | 100% | 3 | 3 | 100% | |
| Lafeber Company, Cornell, IL | 6 | 6 | 100% | 21 | 21 | 100% | |
| Lake Cumberland Feed & Farm Supply, LLC, Russell Springs, KY | 3 | 0 | 0% | 18 | 13 | 72% | C Protein (2) C Fiber (1) Ca (1) Salt (1) |

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| Land O'Lakes Animal Milk Products Co., Arden Hills, MN | 1 | 1 | 100% | 7 | 7 | 100% | |
| Laroy Group, Horsham, PA | 1 | 1 | 100% | 6 | 6 | 100% | |
| Leo Gabbard, West Harrison, IN | 1 | 1 | 100% | 3 | 3 | 100% | |
| Lester J Stutzman Feed Mill, Marion, KY | 6 | 5 | 83% | 41 | 40 | 98% | P (1) |
| Life Data Labs Inc, Cherokee, AL | 1 | 0 | 0% | 11 | 10 | 91% | AD Fiber (1) |
| Luttrull Feeds, Inc., Pembroke, KY | 4 | 3 | 75% | 32 | 30 | 94% | C Fiber (1) Salt (1) |
| Lystn LLC, Fleetwood, PA | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| M & M Farm Supply, Austin, KY | 5 | 2 | 40% | 27 | 24 | 89% | C Protein (1) Salt (1) Lasalocid (1) |
| M Pet Group Corp, Hallandale, FL | 1 | 0 | 0% | 2 | 1 | 50% | C Protein (1) |
| Magnolia International Services, Atlanta, GA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Majesty's Animal Nutrition, Redmond, OR | 1 | 1 | 100% | 5 | 5 | 100% | |
| Manna Pro Products LLC, Chesterfield, MO | 22 | 17 | 77% | 194 | 188 | 97% | Cu (2) Na (2) Vit A (2) |
| Mars Fishcare North America Inc, Chalfont, PA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Mars Petcare US Inc, Franklin, TN | 35 | 33 | 94% | 384 | 382 | 99% | P (2) |
| Marshall Pet Products, Wolcott, NY | 4 | 4 | 100% | 12 | 12 | 100% | |
| Mar-Vo Mineral Co Inc, Osseo, MI | 1 | 1 | 100% | 3 | 3 | 100% | |
| Mays Lick Mill, Mays Lick, KY | 1 | 1 | 100% | 1 | 1 | 100% | |
| Mazelin Feed Mill, Scottsville, KY | 21 | 17 | 81% | 162 | 157 | 97% | C Protein (2) P (1) Salt (1) Cu (1) |
| McCauley Brothers Inc, Versailles, KY | 25 | 24 | 96% | 254 | 253 | 100% | Vit A (1) |
| McRay Feed LLC, Harrodsburg, KY | 18 | 14 | 78% | 116 | 110 | 95% | C Protein (3) ND Fiber (1) Lasalocid (2) |
| Meijer Inc, Grand Rapids, MI | 11 | 10 | 91% | 68 | 67 | 99% | AH Fat (1) |
| Menard Inc, Eau Claire, WI | 4 | 3 | 75% | 31 | 30 | 97% | C Protein (1) |
| Menifee County Farm Supply, Frenchburg, KY | 1 | 1 | 100% | 6 | 6 | 100% | |
| Merrick Pet Care Inc, Amarillo, TX | 12 | 9 | 75% | 144 | 141 | 98% | AH Fat (1) P (1) Ash (1) |
| MGPI of Indiana LLC, Lawrenceburg, IN | 7 | 6 | 86% | 21 | 20 | 95% | Fat (1) |
| Mid America Pet Food LLC, Mt Pleasant, TX | 10 | 8 | 80% | 120 | 117 | 98% | Ca (1) P (2) |
| Midwest Agri Commodities Co, San Rafael, CA | 1 | 1 | 100% | 2 | 2 | 100% | |
| Midwestern Pet Foods Inc, Evansville, IN | 7 | 4 | 57% | 74 | 69 | 93% | Ca (2) P (2) Ash (1) |
| Midwood Brands, LLC, Chesapeake, VA | 3 | 3 | 100% | 39 | 39 | 100% | |
| Milk Products, Chilton, WI | 1 | 1 | 100% | 10 | 10 | 100% | |
| Milo's Kitchen LLC, Pittsburgh, PA | 4 | 2 | 50% | 12 | 10 | 83% | AH Fat (2) |
| Miracle Corp Products, Dayton, OH | 2 | 2 | 100% | 6 | 6 | 100% | |
| Mississippi Lime Co, St Louis, MO | 1 | 1 | 100% | 1 | 1 | 100% | |
| Mosaic Global Sales LLC, Lithia, FL | 2 | 2 | 100% | 6 | 6 | 100% | |
| MPM Products USA Inc, Kennesaw, GA | 10 | 9 | 90% | 63 | 62 | 98% | Ash (1) |
| Mrs Pastures Cookies For Horse, Walnut Creek, CA | 1 | 1 | 100% | 4 | 4 | 100% | |
| Myers Feed & Farm Supply, Corinth, KY | 6 | 6 | 100% | 54 | 54 | 100% | |
| Nacho Eats Inc, New York, NY | 3 | 3 | 100% | 36 | 36 | 100% | |
| Natural Polymer Intl Corp, Plano, TX | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Natures Animals Inc, Mamaroneck, NY | 2 | 2 | 100% | 6 | 6 | 100% | |

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|---|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Nature's Diet LLC, Provo, UT | 1 | 1 | 100% | 3 | 3 | 100% | |
| Natures Logic, Lincoln, NE | 4 | 3 | 75% | 12 | 11 | 92% | AH Fat (1) |
| Natures Recipe Pet Foods, Pittsburgh, PA | 4 | 3 | 75% | 53 | 52 | 98% | AH Fat (1) |
| Natures Variety, Lincoln, NE | 7 | 4 | 57% | 59 | 56 | 95% | AH Fat (3) |
| Neighborhood Pet Products, Federal Way, WA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Nestle Purina Petcare Co, St Louis, MO | 41 | 37 | 90% | 380 | 374 | 98% | AH Fat (4) Ca (1) P (1) |
| New Life International Inc, Homestead, FL | 1 | 0 | 0% | 4 | 3 | 75% | Ash (1) |
| Newman's Own Organics, Aptos, CA | 2 | 1 | 50% | 6 | 4 | 67% | C Protein (1) AH Fat (1) |
| Nootie LLC, Delray Beach, FL | 2 | 2 | 100% | 25 | 25 | 100% | |
| Northwest Naturals, Portland, OR | 2 | 1 | 50% | 16 | 15 | 94% | AH Fat (1) |
| Nulo Inc, Austin, TX | 6 | 4 | 67% | 75 | 71 | 95% | C Protein (1) AH Fat (1) Ca (1) P (1) |
| Nunn Milling Company Inc, Evansville, IN | 11 | 8 | 73% | 74 | 71 | 96% | C Protein (1) AH Fat (1) Ca:P (1) |
| Nutra Blend Corp, Neosho, MO | 2 | 2 | 100% | 5 | 5 | 100% | |
| Nutrena, Minneapolis, MN | 6 | 5 | 83% | 59 | 58 | 98% | AD Fiber (1) |
| Nutrition Services Inc., Carthage, IL | 1 | 0 | 0% | 8 | 7 | 88% | C Protein (1) |
| Nutri-Vet LLC, Boise, ID | 2 | 1 | 50% | 7 | 6 | 86% | Mg (1) |
| Nylabone Products, Neptune, NJ | 4 | 4 | 100% | 12 | 12 | 100% | |
| Odom's Livestock Supply, Inc., Mayfield, KY | 5 | 4 | 80% | 37 | 36 | 97% | ND Fiber (1) |
| Old East Main Co, Goodlettsville, TN | 1 | 1 | 100% | 12 | 12 | 100% | |
| Omega Sea LTD, Painsville, OH | 1 | 1 | 100% | 4 | 4 | 100% | |
| Only Natural Pet, Boulder, CO | 2 | 1 | 50% | 26 | 25 | 96% | C Protein (1) |
| Open Farm Inc, Toronto, ON | 6 | 1 | 17% | 64 | 58 | 91% | AH Fat (4) Ca (1) Ca:P (1) |
| Orange Corn Company LLC, Rio Medina, TX | 1 | 0 | 0% | 2 | 1 | 50% | C Protein (1) |
| Orscheln Farm & Home, Moberly, MO | 7 | 7 | 100% | 42 | 42 | 100% | |
| Outward Hound - The Kyjen Corporation, Centennial, CO | 2 | 2 | 100% | 6 | 6 | 100% | |
| Overton-Pickett Farmers Coop, Livingston, TN | 1 | 1 | 100% | 6 | 6 | 100% | |
| Owensboro Grain Co LLC, Owensboro, KY | 25 | 25 | 100% | 71 | 71 | 100% | |
| Oxbow Enterprises, Murdock, NE | 7 | 7 | 100% | 33 | 33 | 100% | |
| Pacific Coast Distributing, Phoenix, AZ | 5 | 4 | 80% | 46 | 45 | 98% | AH Fat (1) |
| Pampa Beverages LLC, Miami, FL | 1 | 1 | 100% | 6 | 6 | 100% | |
| Pangea Reptile LLC, Zeeland, MI | 1 | 1 | 100% | 4 | 4 | 100% | |
| Party Animal Inc, Hollywood, CA | 1 | 1 | 100% | 13 | 13 | 100% | |
| PawLove, Richmond, VA | 1 | 0 | 0% | 3 | 1 | 33% | C Protein (1) AH Fat (1) |
| Penn Pak Inc, Madison, GA | 1 | 0 | 0% | 2 | 1 | 50% | AH Fat (1) |
| Performance Feeds, Red Boiling Spings, TN | 32 | 24 | 75% | 219 | 207 | 95% | C Protein (3) C Fiber (1) P (3) Salt (2) Cu (1) Vit A (1) Monensin (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|---|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Performance Feeds, Caneyville, KY | 28 | 22 | 79% | 183 | 174 | 95% | C Protein (4) C Fiber (1) Salt (2) Zn (1) Monensin (1) |
| Pet Brands, Columbus, OH | 3 | 3 | 100% | 9 | 9 | 100% | |
| Pet Naturals of Vermont, Essex Junction, VT | 1 | 1 | 100% | 3 | 3 | 100% | |
| Pet Retail Brands, Toronto, ON | 11 | 7 | 64% | 131 | 127 | 97% | AH Fat (2) P (1) Ca:P (1) |
| Pet Ventures Inc, North Hollywood, CA | 4 | 2 | 50% | 12 | 10 | 83% | C Protein (1) AH Fat (1) |
| Pet Wants, Cincinnati, OH | 5 | 5 | 100% | 45 | 45 | 100% | |
| Pet-Ag Inc, Hampshire, IL | 5 | 4 | 80% | 15 | 14 | 93% | AH Fat (1) |
| Petguard Inc, Green Cove Spgs, FL | 1 | 1 | 100% | 13 | 13 | 100% | |
| Petkind, White Rock, BC | 2 | 1 | 50% | 6 | 5 | 83% | AH Fat (1) |
| Petland, Chillicothe, OH | 5 | 3 | 60% | 45 | 41 | 91% | Ca (2) P (2) |
| Petmatrix LLC, Saddle Brook, NJ | 3 | 3 | 100% | 11 | 11 | 100% | |
| Pet's Best Life LLC, Kansas City, MO | 2 | 2 | 100% | 6 | 6 | 100% | |
| Pets Global Inc, Gardena, CA | 5 | 3 | 60% | 64 | 60 | 94% | Ca (2) P (2) |
| Petsense, Scottsdale, AZ | 4 | 4 | 100% | 35 | 35 | 100% | |
| Phillips Agri Farm, Campbellsville, KY | 1 | 0 | 0% | 7 | 5 | 71% | C Protein (1) Ca (1) |
| Pine Tree Farms Inc, Interlaken, NY | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Plantation Feeds LLC, Amelia, VA | 1 | 1 | 100% | 13 | 13 | 100% | |
| PMI Nutrition International LLC, Brentwood, MO | 6 | 6 | 100% | 46 | 46 | 100% | |
| PMI Nutrition LLC, Arden Hills, MN | 2 | 2 | 100% | 27 | 27 | 100% | |
| Poet Nutrition Inc, Sioux Falls, SD | 2 | 2 | 100% | 8 | 8 | 100% | |
| Polkadog Bakery, Boston, MA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Pooch Cake LLC, Washington, PA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Premium Nutritional Products, Mission, KS | 3 | 3 | 100% | 15 | 15 | 100% | |
| Pretty Bird Intl Inc, Stacy, MN | 1 | 1 | 100% | 5 | 5 | 100% | |
| Prewitt Farm Supply, Inc., Williamsburg, KY | 2 | 1 | 50% | 9 | 8 | 89% | C Protein (1) |
| Primal Pet Foods Inc, San Francisco, CA | 1 | 0 | 0% | 14 | 13 | 93% | AH Fat (1) |
| Professional Pet Co, Meta, MO | 1 | 1 | 100% | 14 | 14 | 100% | |
| Protrition Feeds, Lavergne, TN | 8 | 7 | 88% | 63 | 62 | 98% | C Protein (1) |
| Provimi North America Inc, Brookville, OH | 1 | 1 | 100% | 7 | 7 | 100% | |
| PSP Distribution LLC, Seymour, IN | 13 | 13 | 100% | 146 | 146 | 100% | |
| Puppy Cake LLC, Evans City, PA | 7 | 3 | 43% | 18 | 13 | 72% | C Protein (2) Fat (1) AH Fat (2) |
| Pure Treats Inc, Vaudreuil Dorion, QC | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Purina Animal Nutrition LLC, Shoreview, MN | 60 | 45 | 75% | 554 | 538 | 97% | C Protein (5) NPN (2) Fat (1) P (1) K (1) Na (1) Zn (2) Vit A (2) Decox (1) |
| Quality Feeds, Farm, and Pet Inc., Versailles, KY | 1 | 0 | 0% | 6 | 5 | 83% | Salt (1) |
| R2P Group Inc, Emeryville, CA | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Raised Right Pets LP, Rye, NY | 1 | 1 | 100% | 3 | 3 | 100% | |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Ralco Nutrition Inc, Marshall, MN | 2 | 2 | 100% | 7 | 7 | 100% | |
| Raw Basics LLC, Pleasant Prairie, WI | 1 | 0 | 0% | 13 | 9 | 69% | Ca (1) P (1) Na (1) Ca:P (1) |
| Rawz Natural Pet Food, York, ME | 2 | 1 | 50% | 25 | 23 | 92% | Ca (1) P (1) |
| Real Pet Food Company, San Antonio, TX | 2 | 2 | 100% | 26 | 26 | 100% | |
| Real World Wildlife Products, Mattoon, IL | 1 | 1 | 100% | 12 | 12 | 100% | |
| Red A Feeds, Mankato, MN | 3 | 3 | 100% | 18 | 18 | 100% | |
| Red Cedar LLC, Lawrenceburg, KY | 2 | 2 | 100% | 21 | 21 | 100% | |
| Red Collar Pet Foods, Franklin, TN | 11 | 9 | 82% | 101 | 99 | 98% | AH Fat (2) |
| Red River Commodities, Fargo, ND | 3 | 3 | 100% | 8 | 8 | 100% | |
| Redbarn Pet Products LLC, Great Bend, KS | 2 | 1 | 50% | 6 | 5 | 83% | AH Fat (1) |
| Redmond Minerals Inc, Redmond, UT | 3 | 2 | 67% | 26 | 20 | 77% | Co (1) Cu (1) Mn (1) Se (1) S (1) Zn (1) |
| Rep Cal Research Labs, Los Gatos, CA | 2 | 2 | 100% | 6 | 6 | 100% | |
| Repashy Ventures Inc, La Jolla, CA | 4 | 4 | 100% | 18 | 18 | 100% | |
| Resolve Sustainable Solutions, Fort Dodge, IA | 4 | 3 | 75% | 18 | 17 | 94% | Fat (1) |
| Ridley Block Operations, Mankato, MN | 22 | 17 | 77% | 209 | 202 | 97% | C Protein (1) Ca (3) P (1) Se (1) Vit A (1) |
| Ridley Feed Ingredient, Mendota, IL | 1 | 1 | 100% | 1 | 1 | 100% | |
| Ridley USA Inc, Mankato, MN | 1 | 1 | 100% | 12 | 12 | 100% | |
| Riley's Organics, St Louis, MO | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Rip's Farm Center - Tollesboro, Tollesboro, KY | 49 | 37 | 76% | 307 | 294 | 96% | C Protein (5) NPN (1) C Fiber (1) Lasalocid (3) Monensin (3) |
| Roam Pets, New York, NY | 1 | 0 | 0% | 3 | 1 | 33% | C Protein (1) AH Fat (1) |
| Rocko's Rewards, Louisville, KY | 1 | 1 | 100% | 3 | 3 | 100% | |
| Rolf C Hagen (USA) Corp, Mansfield, MA | 1 | 1 | 100% | 12 | 12 | 100% | |
| Roudybush Inc, Woodland, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Royal Canin USA Inc, St Charles, MO | 10 | 10 | 100% | 126 | 126 | 100% | |
| Rural King Supply, Mattoon, IL | 5 | 5 | 100% | 44 | 44 | 100% | |
| Rush Direct Inc, Wood Dale, IL | 1 | 1 | 100% | 3 | 3 | 100% | |
| Russell County Feed Mill Inc, Russell Springs, KY | 10 | 8 | 80% | 81 | 79 | 98% | C Protein (1) P (1) |
| Sams West Inc, Bentonville, AR | 3 | 2 | 67% | 42 | 41 | 98% | AH Fat (1) |
| Save-A-Lot LTD, Earth City, MO | 4 | 3 | 75% | 37 | 36 | 97% | Fe (1) |
| Savory Prime, Ventura, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Schell & Kampeter Inc, Meta, MO | 1 | 1 | 100% | 12 | 12 | 100% | |
| Science Hill Milling Co, Science Hill, KY | 19 | 10 | 53% | 134 | 124 | 93% | C Protein (5) Ca (2) P (1) Salt (1) Se (1) |
| Scott Pet Products, Rockville, IN | 8 | 6 | 75% | 43 | 41 | 95% | Fat (1) Mn (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Seiter Farms Inc, California, KY | 4 | 4 | 100% | 11 | 11 | 100% | |
| Seventy Feeds LLC, Eubank, KY | 1 | 1 | 100% | 6 | 6 | 100% | |
| Shameless Pets, Chicago, IL | 4 | 1 | 25% | 12 | 8 | 67% | C Protein (1) AH Fat (3) |
| Siemer Milling Company, Hopkinsville, KY | 1 | 1 | 100% | 4 | 4 | 100% | |
| Siemer Milling Company, Teutopolis, IL | 1 | 1 | 100% | 4 | 4 | 100% | |
| Simmons Pet Food Inc, Pennsauken, NJ | 6 | 6 | 100% | 76 | 76 | 100% | |
| Simply Nourish Pet Food Co, Phoenix, AZ | 10 | 8 | 80% | 101 | 98 | 97% | AH Fat (2) Ca:P (1) |
| Sligo Feed Mill, Pendleton, KY | 5 | 3 | 60% | 39 | 36 | 92% | AD Fiber (1) Cu (1) Zn (1) |
| Smallbatch Pets, Midway, UT | 2 | 0 | 0% | 27 | 17 | 63% | AH Fat (1) Ca (2) P (2) Fe (1) Mn (1) Zn (1) Ash (2) |
| Smarter Paw LLC, Lenexa, KS | 2 | 2 | 100% | 6 | 6 | 100% | |
| Smokehouse Pet Products, Sun Valley, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Snif-Snax, Miami, FL | 1 | 0 | 0% | 3 | 1 | 33% | C Protein (1) AH Fat (1) |
| Solid Gold Pet LLC, Greenville, SC | 5 | 5 | 100% | 64 | 64 | 100% | |
| Soulistic, Natick, MA | 2 | 2 | 100% | 26 | 26 | 100% | |
| Southern Barker, Lexington, KY | 2 | 1 | 50% | 6 | 5 | 83% | AH Fat (1) |
| Southern Kentucky Feed & Grain, Bowling Green, KY | 11 | 8 | 73% | 65 | 62 | 95% | P (3) |
| Southern State Coop Inc., Richmond, VA | 4 | 4 | 100% | 42 | 42 | 100% | |
| Southern States, Bowling Green, KY | 1 | 1 | 100% | 5 | 5 | 100% | |
| Southern States, Danville, KY | 5 | 5 | 100% | 13 | 13 | 100% | |
| Southern States, Flemingsburg, KY | 17 | 15 | 88% | 67 | 65 | 97% | C Protein (1) Lasalocid (1) |
| Southern States, London, KY | 4 | 3 | 75% | 20 | 19 | 95% | C Protein (1) |
| Southern States, Somerset, KY | 4 | 3 | 75% | 19 | 18 | 95% | C Protein (1) |
| Specialty Feeds Inc, Memphis, TN | 3 | 0 | 0% | 39 | 34 | 87% | Ca (2) P (3) |
| Specialty Products Resources Inc, Waltham, MA | 3 | 2 | 67% | 11 | 10 | 91% | AH Fat (1) |
| Spectrum Brands Pet, LLC, Blacksburg, VA | 8 | 6 | 75% | 23 | 21 | 91% | AH Fat (2) |
| Square Pet Nutrition LLC, Austin, TX | 1 | 1 | 100% | 13 | 13 | 100% | |
| Standlee Hay Co Inc, Eden, ID | 2 | 2 | 100% | 8 | 8 | 100% | |
| Star Mark Pet Products Inc, Hutto, TX | 1 | 1 | 100% | 3 | 3 | 100% | |
| Steel's Bottom Feed, Warsaw, KY | 4 | 2 | 50% | 22 | 20 | 91% | C Protein (2) |
| Stella & Chewy's LLC, Oak Creek, WI | 6 | 4 | 67% | 76 | 73 | 96% | Ca (1) P (1) Ca:P (1) |
| Stormberg Foods LLC, Goldsboro, NC | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Strite Custom Feeds LLC, Crab Orchard, KY | 5 | 4 | 80% | 34 | 33 | 97% | C Protein (1) |
| Sun Seed Company, Bowling Green, OH | 2 | 0 | 0% | 13 | 11 | 85% | AH Fat (1) Vit A (1) |
| Sunbird Inc., Huron, SD | 1 | 1 | 100% | 4 | 4 | 100% | |
| Sunny Pastures Feed, Harrodsburg, KY | 2 | 2 | 100% | 12 | 12 | 100% | |
| Sunshine Mills Inc, Red Bay, AL | 29 | 25 | 86% | 242 | 238 | 98% | C Protein (1) AH Fat (1) Ca:P (2) |
| Superior Ag Resources, Dale, IN | 2 | 1 | 50% | 20 | 19 | 95% | AD Fiber (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|---|---------|---------|---------|-------|---------|---------|--|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Superior Farms Pet Provisions, Dixon, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Supreme Petfoods LTD, Ipswich Suffolk | 4 | 3 | 75% | 22 | 21 | 95% | Ca (1) |
| SwedenCare USA, Poulosbo, WA | 1 | 0 | 0% | 6 | 5 | 83% | K (1) |
| Sweet Meadow Farm, Sherborn, MA | 1 | 1 | 100% | 6 | 6 | 100% | |
| T & H Feed Service, Inc., Lebanon, KY | 1 | 1 | 100% | 9 | 9 | 100% | |
| T & T Feed and Seed, Bardstown, KY | 1 | 1 | 100% | 3 | 3 | 100% | |
| Tailbangers, Millsboro, DE | 1 | 1 | 100% | 3 | 3 | 100% | |
| Taplow Ventures Ltd, North Vancouver, BC | 2 | 0 | 0% | 27 | 25 | 93% | Ash (2) |
| Taste of the Wild, Meta, MO | 8 | 8 | 100% | 105 | 105 | 100% | |
| Tate & Lyle Ingredients Americas, Decatur, IL | 2 | 2 | 100% | 6 | 6 | 100% | |
| Tender & True Pet Nutrition, Omaha, NE | 2 | 1 | 50% | 25 | 21 | 84% | AH Fat (1) Ca (1) P (1) Ca:P (1) |
| Tennessee Farmers Coop, Lavergne, TN | 6 | 5 | 83% | 57 | 56 | 98% | Mn (1) |
| Tevra Brands, LLC, Omaha, NE | 2 | 2 | 100% | 6 | 6 | 100% | |
| Texas Natural Feeds, Waco, TX | 2 | 1 | 50% | 13 | 11 | 85% | Ca (1) Na (1) |
| The Bramton Co., LLC, Dallas, TX | 1 | 0 | 0% | 13 | 11 | 85% | K (1) Vit A (1) |
| The High Hopes Pets Co. LLC., Lincolnwood, IL | 1 | 1 | 100% | 3 | 3 | 100% | |
| The Honest Kitchen Inc, San Diego, CA | 5 | 3 | 60% | 35 | 31 | 89% | C Protein (2) AH Fat (2) |
| The Hyland Company Inc, Ashland, KY | 30 | 22 | 73% | 321 | 309 | 96% | AH Fat (4) Ca (3) P (3) Se (1) Zn (1) |
| The Phoenix Company, Willows, CA | 4 | 4 | 100% | 13 | 13 | 100% | |
| The Pound Bakery, Harvard, IL | 2 | 1 | 50% | 6 | 4 | 67% | C Protein (1) AH Fat (1) |
| The Real Meat Company, Montrose, CA | 2 | 1 | 50% | 26 | 25 | 96% | AH Fat (1) |
| Three Dog Bakery LLC, Kansas City, MO | 3 | 2 | 67% | 9 | 8 | 89% | AH Fat (1) |
| Three Ring LLC, Secaucus, NJ | 1 | 1 | 100% | 3 | 3 | 100% | |
| Topco Associates, Elk Grove Village, IL | 11 | 10 | 91% | 89 | 88 | 99% | AH Fat (1) |
| Tractor Supply Company, Brentwood, TN | 51 | 41 | 80% | 462 | 447 | 97% | C Protein (3) AH Fat (2) Cu (1) Fe (1) K (5) Na (1) S (1) Ash (1) |
| Trader Joe's, Monsey, NY | 2 | 2 | 100% | 16 | 16 | 100% | |
| Treat Planet, Maryland Heights, MO | 3 | 1 | 33% | 8 | 4 | 50% | C Protein (2) AH Fat (2) |
| Treats for Chickens, Cotati, CA | 1 | 0 | 0% | 7 | 6 | 86% | Fat (1) |
| Tri State Packaging Co, Van Wert, OH | 1 | 0 | 0% | 5 | 4 | 80% | Fat (1) |
| Tri-County Fertilizer Co., Inc., Richmond, KY | 2 | 2 | 100% | 12 | 12 | 100% | |
| Trouw Nutrition Usa, Highland, IL | 1 | 1 | 100% | 4 | 4 | 100% | |
| Tucker Milling LLC, Guntersville, AL | 2 | 1 | 50% | 19 | 18 | 95% | Cu (1) |
| Tuffys Pet Foods Inc, Perham, MN | 7 | 7 | 100% | 84 | 84 | 100% | |
| Tyson Foods Inc., Springdale, AR | 3 | 3 | 100% | 19 | 19 | 100% | |
| Tyson Pet Products, Independence, IA | 5 | 3 | 60% | 25 | 23 | 92% | AH Fat (2) |
| Ultimate Whitetail, Columbia, KY | 3 | 0 | 0% | 23 | 19 | 83% | P (1) Salt (2) Se (1) |

Table 10. Sampling type by sampling location in 2021.

| Business Name | Samples | | | Tests | | | Sample Violations |
|--|--------------|--------------|------------|---------------|---------------|------------|-------------------------------------|
| | Total | #Passed | %Passed | Total | #Passed | %Passed | |
| Under the Weather, South Burlington, VT | 1 | 1 | 100% | 3 | 3 | 100% | |
| Unipet USA LLC, Travelers Rest, SC | 1 | 0 | 0% | 5 | 2 | 40% | C Protein (1) Ca (1) P (1) |
| United Livestock Commodities, Mayfield, KY | 10 | 5 | 50% | 108 | 102 | 94% | Ca (1) Mg (1) K (3) Se (1) |
| United Pet Group Inc, Blacksburg, VA | 3 | 3 | 100% | 6 | 6 | 100% | |
| Vets Plus Inc, Menomonie, WI | 2 | 2 | 100% | 7 | 7 | 100% | |
| Vetscience LLC, Dallas, TX | 3 | 2 | 67% | 8 | 7 | 88% | AH Fat (1) |
| Virbac Ah Inc, Fort Worth, TX | 1 | 1 | 100% | 4 | 4 | 100% | |
| Vitakraft Sun Seed Co Inc, Bowling Green, OH | 5 | 4 | 80% | 27 | 26 | 96% | Fat (1) |
| Waggin Train LLC, St Louis, MO | 1 | 1 | 100% | 3 | 3 | 100% | |
| Walgreen Co, Deerfield, IL | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| Wal-Mart Stores Inc, Bentonville, AR | 8 | 8 | 100% | 94 | 94 | 100% | |
| Walpole Feed & Supply, Okeechobee, FL | 2 | 2 | 100% | 30 | 30 | 100% | |
| Ware Milling, Houston, MS | 3 | 3 | 100% | 22 | 22 | 100% | |
| Well Pet LLC, Tewksbury, MA | 17 | 16 | 94% | 178 | 177 | 99% | AH Fat (1) |
| Weruva International Inc, Natick, MA | 6 | 6 | 100% | 78 | 78 | 100% | |
| West Feeds, Barbourville, KY | 2 | 1 | 50% | 11 | 10 | 91% | C Protein (1) |
| West Paw, Bozeman, MT | 1 | 1 | 100% | 2 | 2 | 100% | |
| Westway Feed Products LLC, Tomball, TX | 2 | 2 | 100% | 6 | 6 | 100% | |
| Wet Noses Natural Dog Treat Co, Monroe, WA | 1 | 0 | 0% | 3 | 2 | 67% | AH Fat (1) |
| White Gold Mills LLC, Wilson, AR | 4 | 2 | 50% | 42 | 39 | 93% | Ca (1) K (2) |
| Whitebridge Pet Products, Chesterfield, MO | 15 | 13 | 87% | 102 | 100 | 98% | C Protein (1) AH Fat (1) |
| Whitetail Heaven Elite Outdoor Superstore, Nicholasville, KY | 3 | 0 | 0% | 36 | 33 | 92% | Se (2) Zn (1) |
| Whitetail Mash LLC, Versailles, KY | 1 | 1 | 100% | 6 | 6 | 100% | |
| Whole Foods Market, Austin, TX | 4 | 3 | 75% | 41 | 40 | 98% | AH Fat (1) |
| Whole Life Pet Products, Pittsfield, ME | 1 | 0 | 0% | 2 | 1 | 50% | AH Fat (1) |
| Wildgame Innovations LLC, Baton Rouge, LA | 1 | 1 | 100% | 5 | 5 | 100% | |
| Willard Milling, Inc., Grayson, KY | 29 | 28 | 97% | 226 | 225 | 100% | C Protein (1) |
| Williams Farm, Germantown, KY | 1 | 1 | 100% | 3 | 3 | 100% | |
| Winchester Feeds Inc, Winchester, KY | 6 | 6 | 100% | 62 | 62 | 100% | |
| Winchester Nutrition, Winchester, KY | 2 | 2 | 100% | 12 | 12 | 100% | |
| Winding Way Farm, LLC, Union, KY | 2 | 2 | 100% | 8 | 8 | 100% | |
| Woodford Feed Co Inc, Versailles, KY | 9 | 7 | 78% | 90 | 86 | 96% | C Protein (2) Fat (1) Ca (1) |
| Woofables, Coralville, IA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Worldwise, Inc., Novato, CA | 1 | 1 | 100% | 3 | 3 | 100% | |
| Yellow Yak, Everett, WA | 2 | 1 | 50% | 9 | 8 | 89% | Ash (1) |
| Ziwipeak LTD, Carmel, CA | 2 | 0 | 0% | 28 | 26 | 93% | AH Fat (2) |
| Zoo Med Laboratories Inc., San Luis Obispo, CA | 5 | 4 | 80% | 29 | 28 | 97% | Fat (1) |
| Zukes, Durango, CO | 2 | 2 | 100% | 6 | 6 | 100% | |
| Totals | 2,649 | 2,025 | 76% | 20,264 | 19,404 | 96% | |

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