



2019 Sample Report

In 2019 the feed program took 945 samples of feed (**Table 1**). The program's primary focus was on food safety analyses including mycotoxin screens, pesticide screens, medicated feed, nutrient requirements, heavy metals and more. Over 67% of the samples obtained last year were analyzed for food safety reasons, with the other 33% focused on label compliance. Feed investigators also completed 5 mixer studies and 7 flush verification studies. The program aimed to sample both ingredients and manufactured feed originating within California as well as out-of-state or other countries. In 2019 samples were obtained of product originating from; Canada, Mexico, Arizona, Georgia, Illinois, Iowa, Kansas, Kentucky, Maryland, Minnesota, Missouri, Nebraska, Oklahoma, South Carolina, South Dakota, Utah, Wisconsin, and Texas.

Of the total samples obtained last year 916 have analyses completed and reported, therefore the following violation assessment is a preliminary report of those samples only. Food safety screens were completed including 18 pesticide residue, 111 mycotoxin, 8 heavy metal, and 5 microscopies. There were no pesticide residues detected, no unacceptable levels of heavy metals, and other than 1 incident (mentioned in Corn Study) no mycotoxins above the FDA tolerance levels. Microscopy was used to identify foreign material and damaged feed (mold).

Of the 916 samples reported 802 were Official Samples and 258 received a violation (32% violation rate), with some samples receiving multiple violations. Of those, 40 were from manufacturers not licensed to sell commercial feed in California (15.5% of violative samples). Excluding investigative samples, 156 samples of medicated feed were taken and 11.5% were in violation for inaccurate drug levels. Almond hulls accounted for 13.5% of total violations, and 27% of all almond hull samples taken in

2019 were in violation. An additional 63 label related violations were issued. Within these 258 violative samples 202 individual violations for failure to meet guaranteed analysis were issued (Table 2). There was a high occurrence of protein violations in 2019, with 23% of violative samples and over 7% of all official samples receiving a crude protein violation.

Table 1. Total samples of various types collected in 2019.

Type	2019 Count	Percent
Mixer Study	5 studies (50 samples)	5.3%
Flush Verification	7 flushes (18 samples)	1.9%
Corn	65	6.9%
Cottonseed	57	6.0%
Almond Hulls	128	13.6%
Vitamin Mineral Premix	84	8.9%
Out-of-State/Country	91	9.6%
Complete Feed (non-medicated only)	159	16.8%
Medicated Feed (Official samples only)	156	16.5%
All other ingredients & mixes	137	14.5%
2019 Total	945	100%

Table 2. Individual violations in guaranteed analysis that were issued in 2019.

Analysis	# Violations
Crude Protein	59
Crude Fiber	38
Crude Fat	8
Moisture	10
Medications	18
Selenium	12
Other Minerals/Vitamins	48
Misc.	9
Total	202