2025 Crop Year Mycotoxin Report

From July 2025 through May 2026, the Commercial Feed Regulatory Program (CFRP) obtained 61 samples of various feeds for mycotoxin analysis (**Figure 1**). Of the 61 samples obtained, 60 were routine official samples and one was an investigative sample. The University of California, Davis, California Animal Health and Food Safety Laboratory conducted 11 mycotoxin analyses on each of the 61 samples, for a total of 671 analyses. Samples were analyzed for aflatoxin B1, B2, G1, G2 ppb, HT-2 ppb, zearalenone (F-2 Toxin) ppm, fumonisin B1, B2, B3 ppm, deoxynevalenol (vomitoxin) ppm, and ochratoxin ppb.

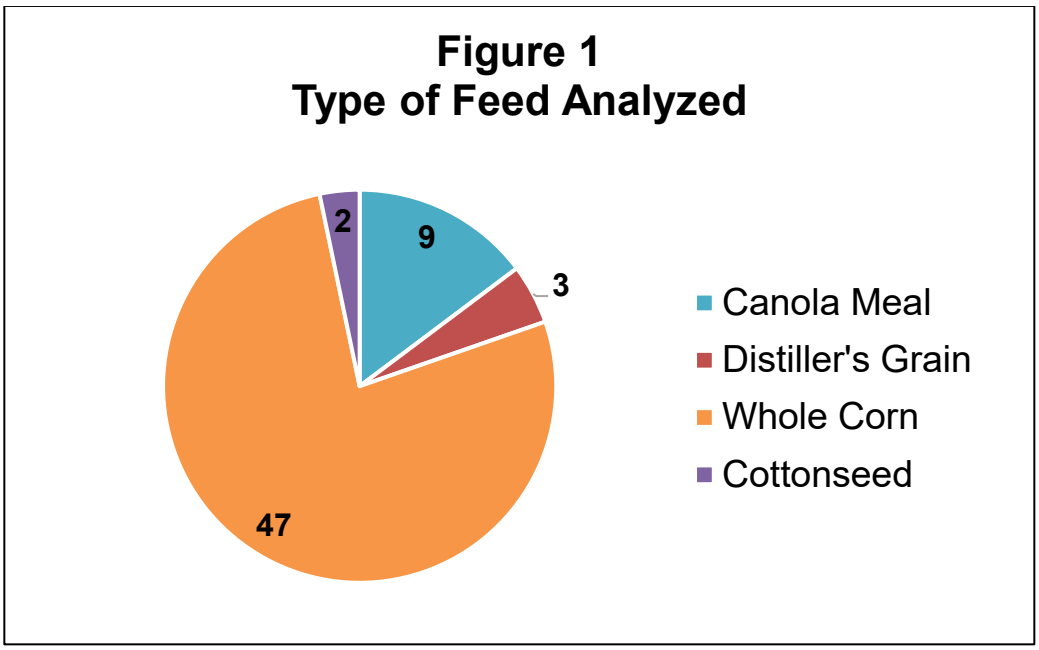


Figure 1. Shows the distribution of the 61 feed samples analyzed by the CFRP for mycotoxins, most of which were whole corn (47 samples), followed by canola meal (9 samples), cottonseed (2 samples), and distiller's grain (3 samples).

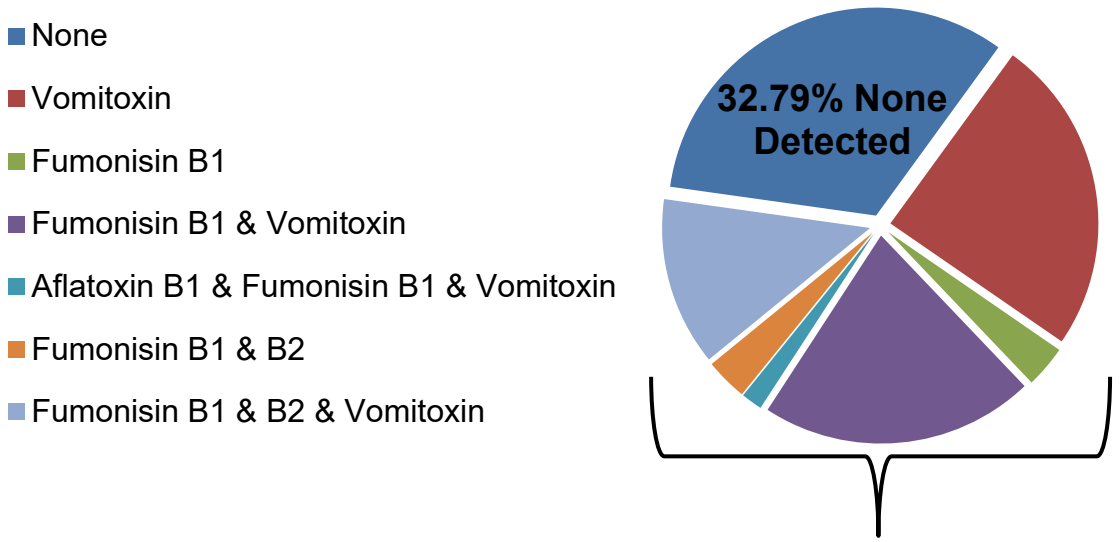
The US Food and Drug Administration (FDA) has established tolerance levels for aflatoxin, fumonisin and deoxynevalenol (vomitoxin) by species and class of livestock[1]. The tolerance level for aflatoxins varies by species from 300 parts per billion (ppb) for finishing beef cattle to 20 ppb in dairy cattle. Due to California's prominent dairy industry, CFRP requires that all commercial feed in California not exceed 20 ppb total aflatoxin, since it can be transferred into milk and poses a human health concern. Tolerance levels for fumonisin range from 5 parts per million (ppm) for equids and rabbits to 100 ppm for poultry raised for slaughter. Vomitoxin tolerance levels in feed ingredients range from 5 ppm for swine to 30 ppm for beef cattle. FDA has not established guidance for the other mycotoxins tested.

Of the 61 samples analyzed, 20 (32.79%) contained no detectable levels of mycotoxins (**Figure 2**). The remaining 41 samples had detectable concentrations of one or more mycotoxins (**Figure 2**); one sample contained aflatoxin B1 found at 6.2 ppb, 26 samples contained fumonisin (B1 or B1 and B2) with levels ranging from 1.1 to 7.9 ppm total fumonisin

1: FDA Center for Veterinary Medicine – Chemical Contaminants - https://www.fda.gov/animal-veterinary/biological-chemical-and-physical-contaminants-animal-food/chemical-contaminants

(**Figure 3**), and 37 samples contained vomitoxin ranging from 0.51 to 4.7 ppm (**Figure 4**). No samples contained detectable levels of aflatoxin B2, G1, or G2; fumonisin B3; ochratoxin; zearalenone (F-2 toxin); or H-T2. CFRP conducted follow-up actions for each sample which contained levels of total fumonisin over 5 ppm to ensure feed safety for species with tolerance levels at 5 ppm. No enforcement actions were required on any of the samples.

Figure 2
Distribution of Mycotoxins in 61 Total Samples



Level (ppm or ppb) of Mycotoxin Found in 41 samples

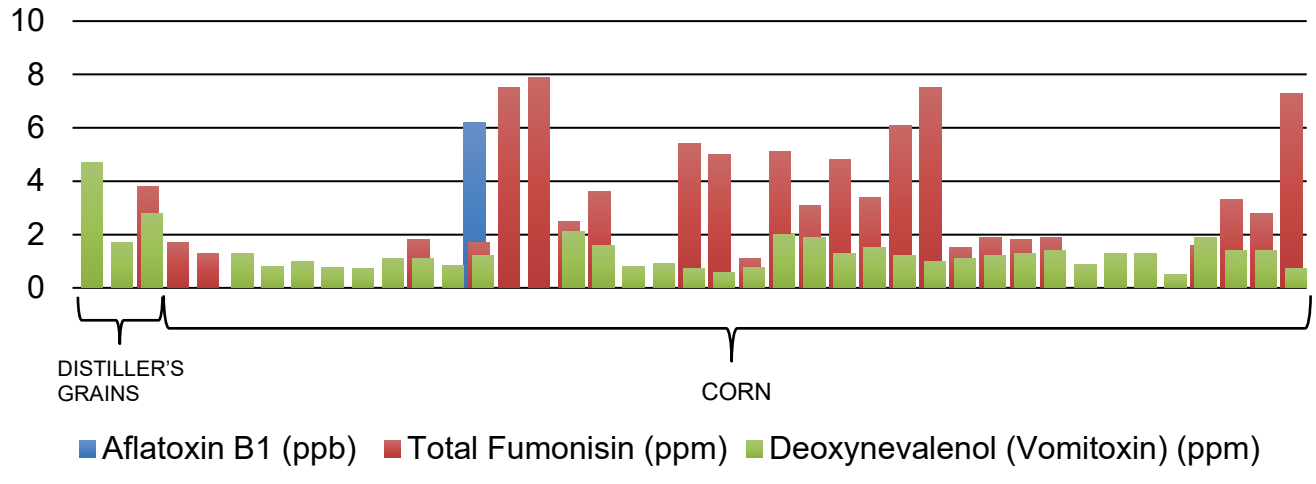


***Figure 2**. Mycotoxins detected in 41 of 61 samples of various feeds from the 2025 crop year and the levels detected. Fumonisin and vomitoxin are reported in ppm; aflatoxin B1 is reported in PPB. FDA tolerances vary by species, with a maximum tolerance of 20 ppb for aflatoxin and 5 ppm for total fumonisin and vomitoxin.*

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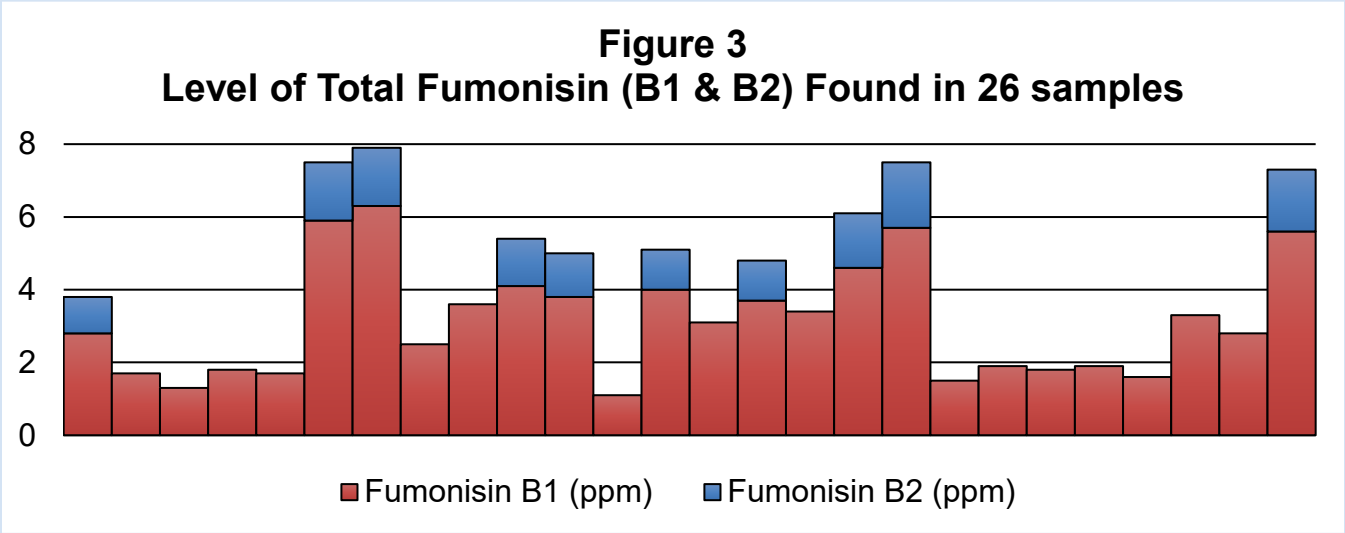

Figure 3. *Breakdown of total fumonisin (B1 & B2) levels in 26 samples, reported in ppm.*

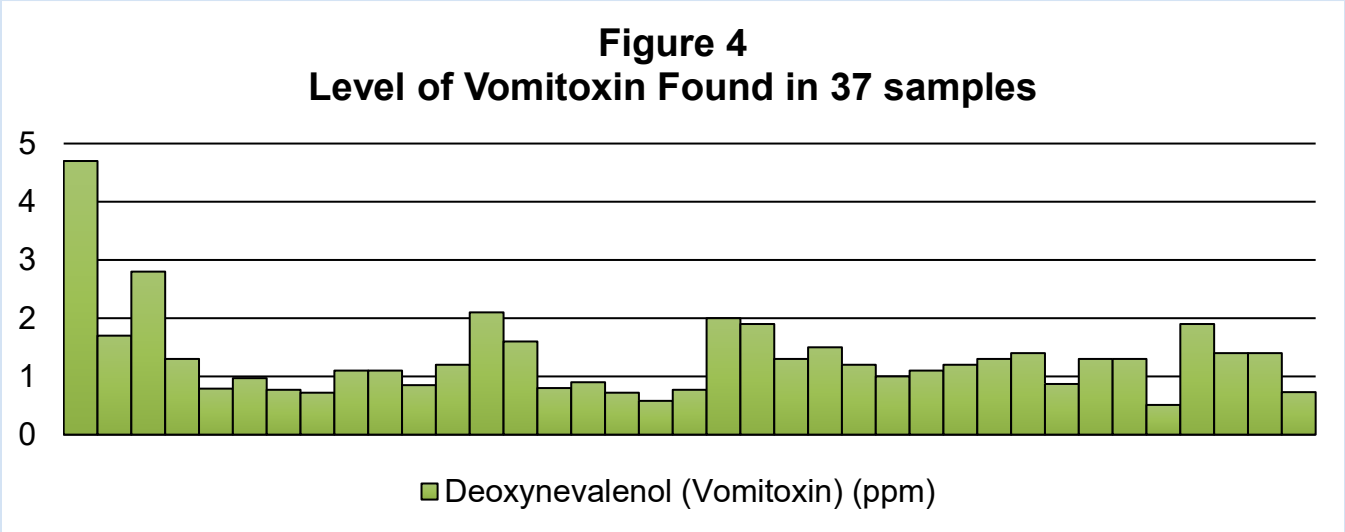

Figure 4. *Breakdown of vomitoxin levels in 37 samples, reported in ppm.*

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Between the 2022 and 2025 mycotoxin crop year reports, CFRP has observed an increase in the percentage of samples with levels of detected mycotoxins (**Table 1**). CFRP will continue to monitor these trends and take enforcement actions when necessary. Increased vigilance in testing, monitoring, and managing mycotoxin levels is recommended, particularly for feed intended for susceptible species.

Table 1
Past Crop Years Comparison

Crop Year	Number of Samples Taken	Percentage of Samples with Mycotoxins Detected	Range of Mycotoxins
2022	120	20%	Aflatoxin B1 - 5.0-7.8 ppb; Fumonisin B1 - 1-2.8 ppm; Vomitoxin - 0.6 - 1.4 ppm
2023	66	15%	Aflatoxin B1 - 8.9-11 ppb; Fumonisin B1 - 1-3.5 ppm; Vomitoxin - 1.4 ppm
2024	62	55%	Aflatoxin B1 - 11 ppb; Total Fumonisin - 0.5-4.5 ppm; Vomitoxin - 0.52-1.25 ppm
2025	61	67%	Aflatoxin B1 - 6.2 ppb; Total Fumonisin - 1.1-7.9 ppm; Vomitoxin - 0.51 - 4.7 ppm