

# Mycotoxin Trends – Corn Grains



Drawing broad conclusions from lab summaries of mycotoxin data is challenging because:

- 1) Samples submitted to labs are not random. Customers submit samples because they already suspect there is a problem.
- 2) Across a wide enough geography, the distribution of mycotoxin contamination almost never changes.
- 3) Across a narrow enough geography, there are almost never enough samples to draw statistically defensible conclusions.

Regardless of these challenges, customers love mycotoxin summaries, and we love happy customers, so here's a quick summary of trends we've been seeing.

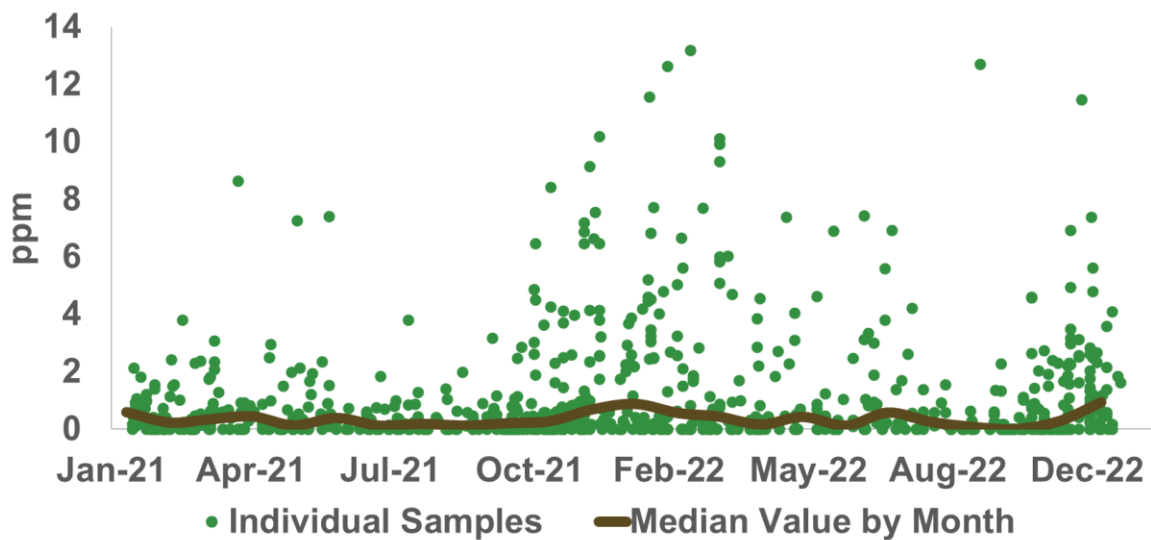
## Vomitoxin (DON)

2022 crop corn grain seems to have more Vomitoxin (DON). Since November 1<sup>st</sup>, 2022:

- 81% of samples have been positive, compared to 64% the previous 2 years
- Median values, and % of samples over 0.3 ppm, 1 ppm, & 2.5 ppm have increased (see table below)

Crop year	Date range	Median ppm	% > 0.3 ppm	% > 1 ppm	% > 2.5 ppm
2020	Jan 2021–Oct 2021	0.21	46%	17%	3%
2021	Nov 2021–Oct 2022	0.34	53%	30%	20%
2022	Nov 2022 - Now	0.56	58%	41%	20%
2022	Dec 2022	0.95	67%	48%	25%

## Corn Grains - Vomitoxin (DON)



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## Zearalenone (ZEA)

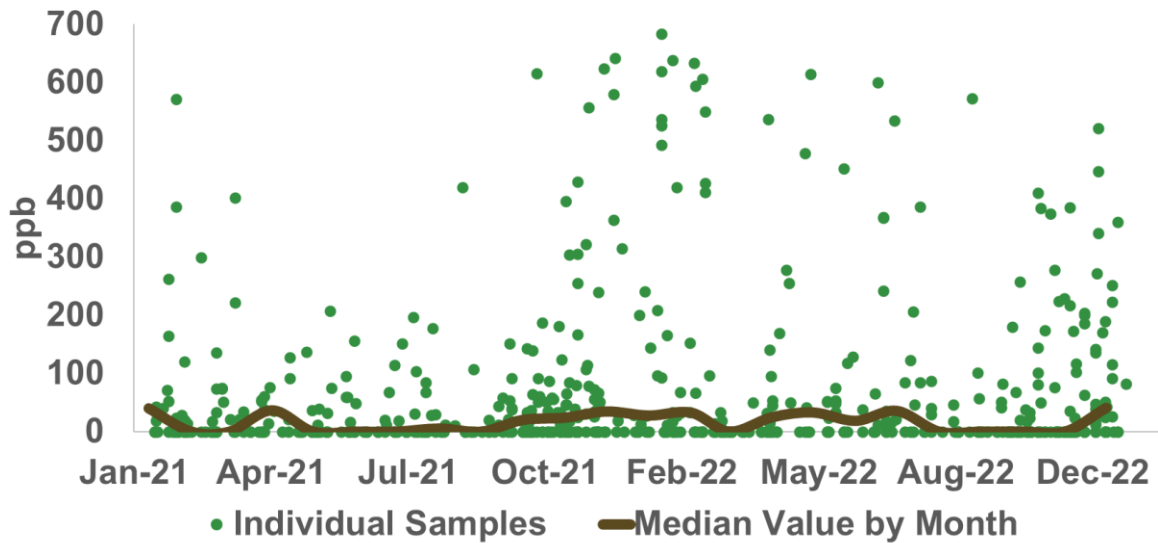
2022 crop corn grain seems to have more Zearalenone. Since November 1<sup>st</sup>, 2022:

- 70% of samples have been positive, compared to 52% the previous 2 years

However, the bump we're seeing in Zearalenone started in the 2021 crop year.

Crop year	Date range	Median ppb	% > 100 ppb	% > 250 ppb
2020	Jan 2021 – Oct 2021	11	15%	7%
2021	Nov 2021 – Oct 2022	17	25%	18%
2022	Nov 2022 – Now	25	33%	14%
2022	Dec 2022	41	36%	19%

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## T2/HT2

2022 crop seems to have no significant change from the past 2 years. Since Nov 1<sup>st</sup>, 2022:

- 32% positive rate, very similar to previous 2 year data
- 3% are over 100 ppb, similar to previous 2 year data

## Fumonisin

2022 crop seems to have no significant change. Since Nov. 1<sup>st</sup>, 2022:

- 55% positive rate, compared to 51% the previous 2 years
- 17% over 1 ppm, compared to 16% the previous 2 years

## Aflatoxin

- only 3% of samples were positive

## Ochratoxin-A

- only 1% of samples were positive, and none with concerning levels

In conclusion, Vomitoxin (DON) and Zearalenone have shown elevated levels in both the 2021 and 2022 corn crops. We've seen a slight uptick in Fumonisin. T2/HT2 has been consistent with historic norms, while Aflatoxin and Ochratoxin – A have infected a very low percentage of samples.

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