

# **Mycotoxin Monthly Survey**

## **January 2024**

# Mycotoxins & Analysis



**LC-MS/MS**

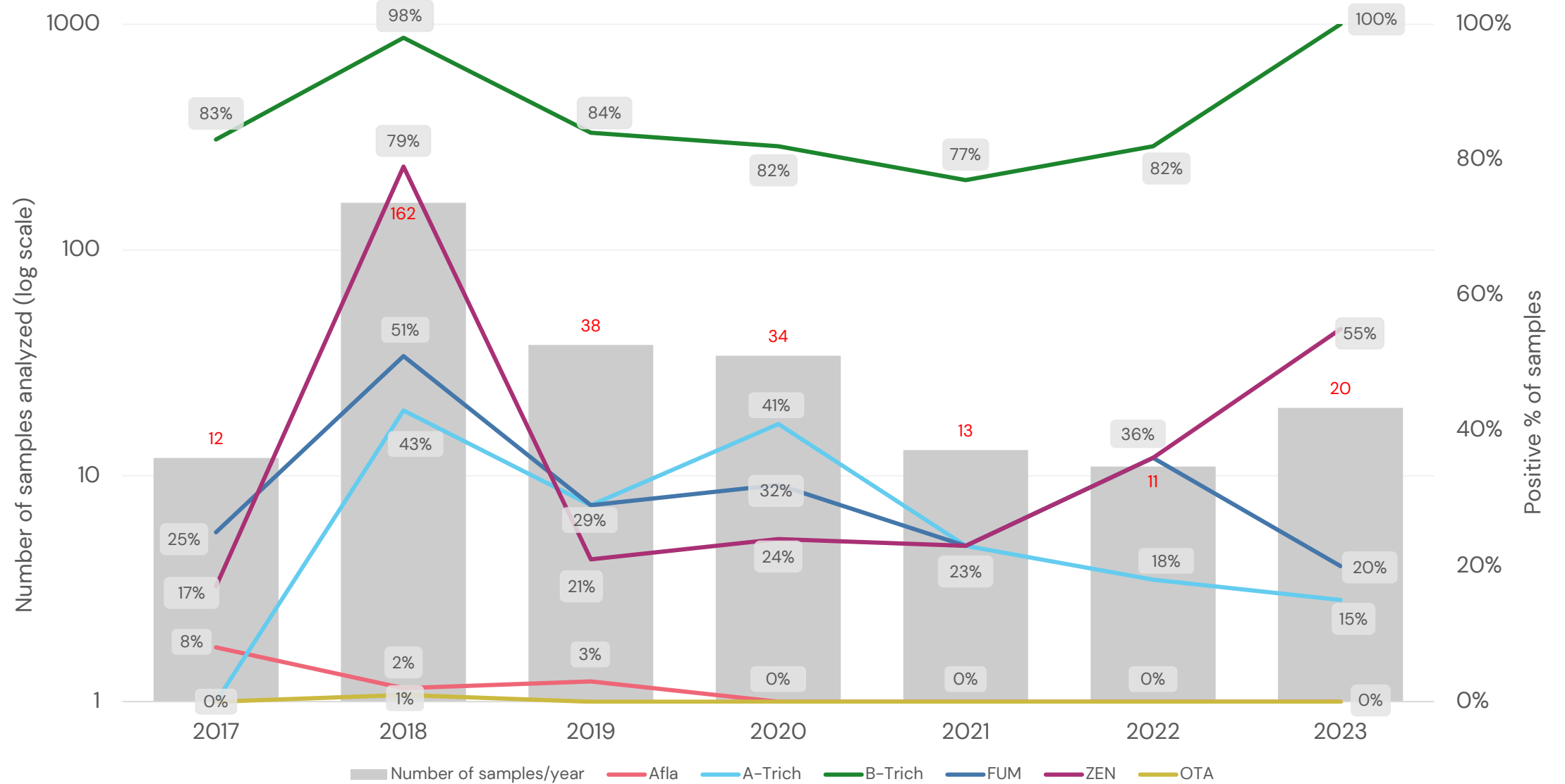


The survey results\* represent samples sent in for surveillance testing only and does not include any sample submitted following clinical signs.

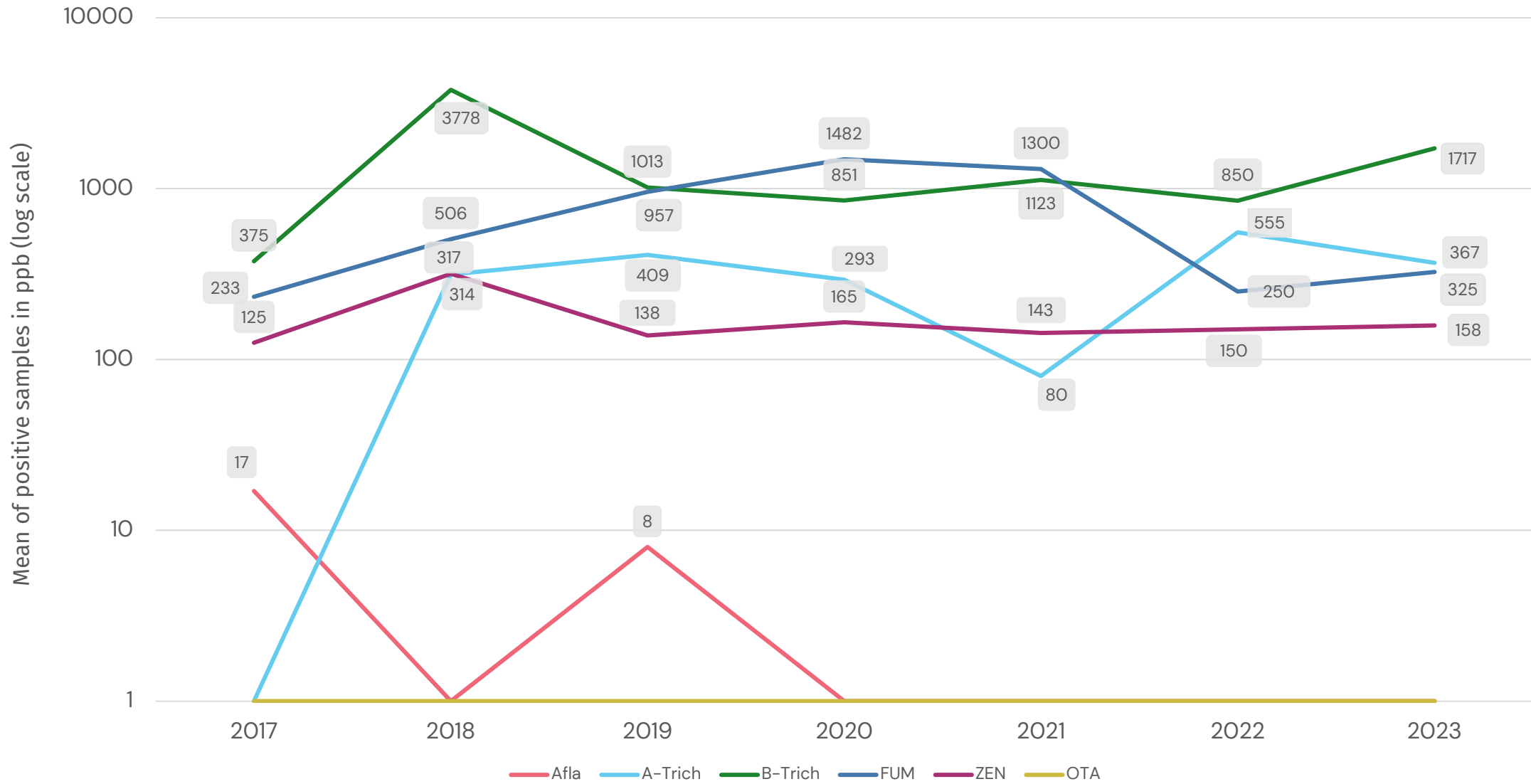
Mycotoxin Group	Mycotoxins	Limit of Detection (ppb)
Aflatoxins (Afla)	Aflatoxin B1	1.0
	Aflatoxin B2	1.0
	Aflatoxin G1	1.0
	Aflatoxin G2	1.0
A-Trichothecenes (A-Trich)	T-2 Toxin	60.0
	HT-2 Toxin	60.0
	Diacetoxyscirpenol (DAS)	60.0
B-Trichothecenes (B-Trich)	Deoxynivalenol (DON/Vomitoxin)	60.0
	3-Acetyldeoxynivalenol (3-AcDON)	60.0
	15-Acetyldeoxynivalenol (15-AcDON)	60.0
Fumonisin (FUM)	Fumonisin B1	100.0
	Fumonisin B2	100.0
Zearalenone (ZEN)	Zearalenone (ZEN)	30.0
Ochratoxin A (OTA)	Ochratoxin A (OTA)	3.0
Sterigmatocystin (STC)	Sterigmatocystin (STC)	30.0
Mycophenolic Acid (MPA)	Mycophenolic Acid (MPA)	30.0

\*Results are reported as the summation of mycotoxin levels detected per Mycotoxin Group. (For example, B-Trich represents total contamination detected for DON + 3-AcDON + 15-AcDON)

# Occurrence Trend in 2023 Canada Corn



# Mean of Positives Trend in 2023 Canada Corn



# 2023 Corn Risk by Province – B-Trich



State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	10	100	2753
Quebec	10	100	681

- Province with average > 1,000 ppb
- Province with average < 1,000 ppb
- Province with samples < LOD (60.0 ppb)
- No sample submitted

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Based on the samples analyzed in this region.

# 2023 Corn Risk by Province – ZEN



State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	10	70	207
Quebec	10	40	73

- Province with average > 100 ppb
- Province with average < 100 ppb
- Province with samples < LOD (30.0 ppb)
- No sample submitted

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Based on the samples analyzed in this region.



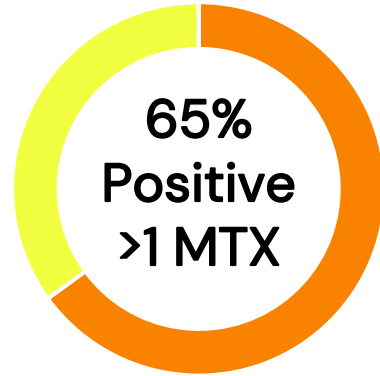
# Mycotoxin Survey Summary – 2023 Canada Corn



20 corn samples submitted from 2 provinces



vs. 82% in 2022



vs. 64% in 2022

vs. 2022

**B-Trich**

- 100% positive / ↑ from 82%
- 1717 ppb / ↑ from 850 ppb

**ZEN**

- 55% positive / ↑ from 36%
- 158 ppb / ↑ from 150 ppb

- Continued monitoring and surveillance of new crop ingredients is warranted
  - On-going characterization of contamination patterns and trends

# Questions?

# Thank you!



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