Mycotoxin Monthly Survey April 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
Fumonisins (FUM)	Fumonisin B1	100.0
	Fumonisin B2	100.0
Zearalenone (ZEN)	Zearalenone	30.0
Ochratoxin A (OTA)	Ochratoxin A	3.0
Sterigmatocystin (STC)	Sterigmatocystin	30.0
Mycophenolic Acid (MPA)	Mycophenolic Acid	30.0

Occurrence Trend in 2023 Canadian Corn Silage



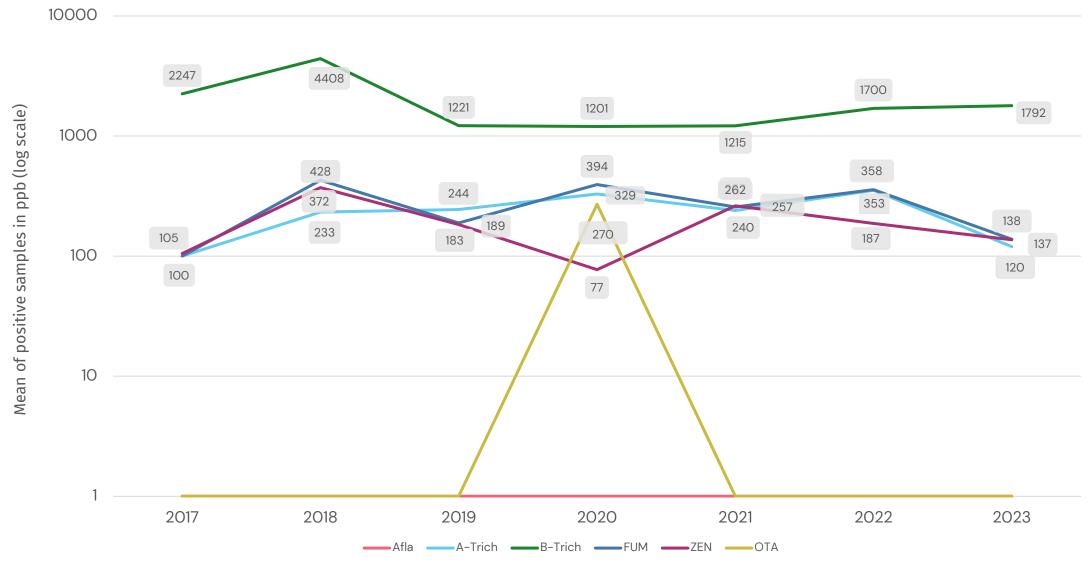




Mean of Positives Trend in 2023 Canadian Corn Silage

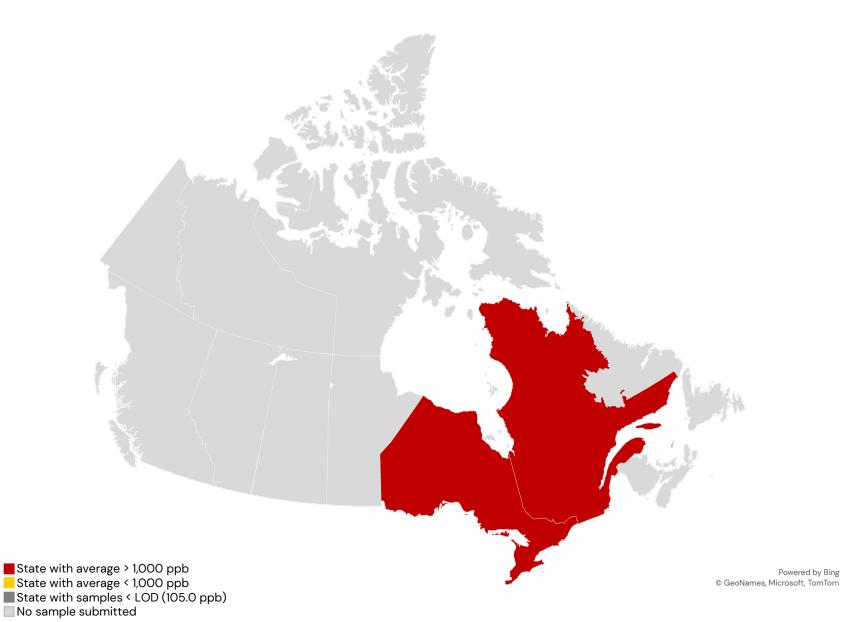






2023 Corn Silage Risk by Province – B-Trich

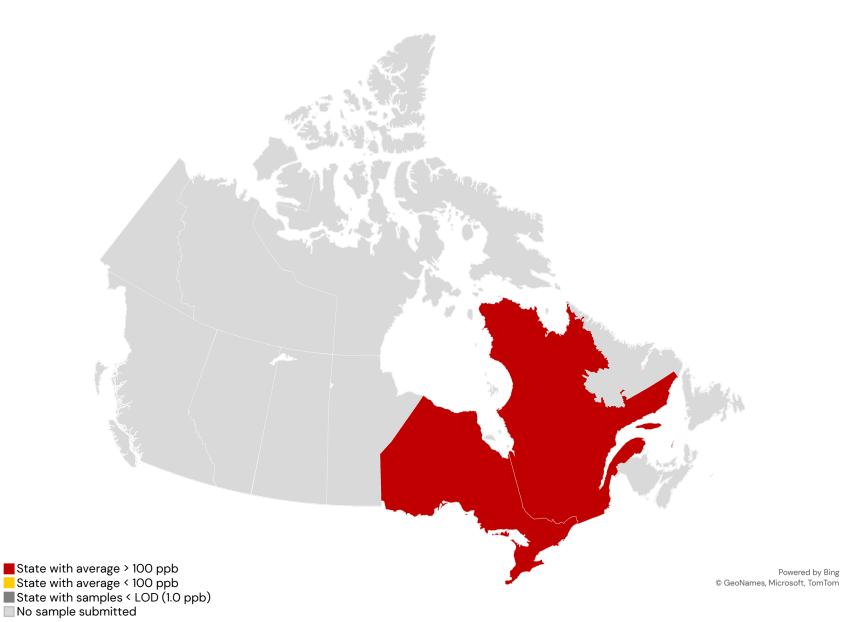




State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	37	100	2485
Quebec	51	100	12 <mark>90</mark>

2023 Corn Silage Risk by Province – ZEN





State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	37	51	148
Quebec	51	67	131

Mycotoxin Survey Summary – 2023 Canadian Corn Silage



88 corn silage samples submitted from 2 provinces



- · Continued monitoring and surveillance of new crop ingredients is warranted
 - On-going characterization of contamination patterns and trends
 - ZEN appears to be occurring more frequently but at somewhat lower concentrations than what was observed in 2022 crop
 - Both the occurrence and concentration of B-Trich appear to be slightly greater than what was observed in 2022 crop

Questions?



Thank you!

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