

Mycotoxin Occurrence in 2022 Canadian Corn Grain





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 (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

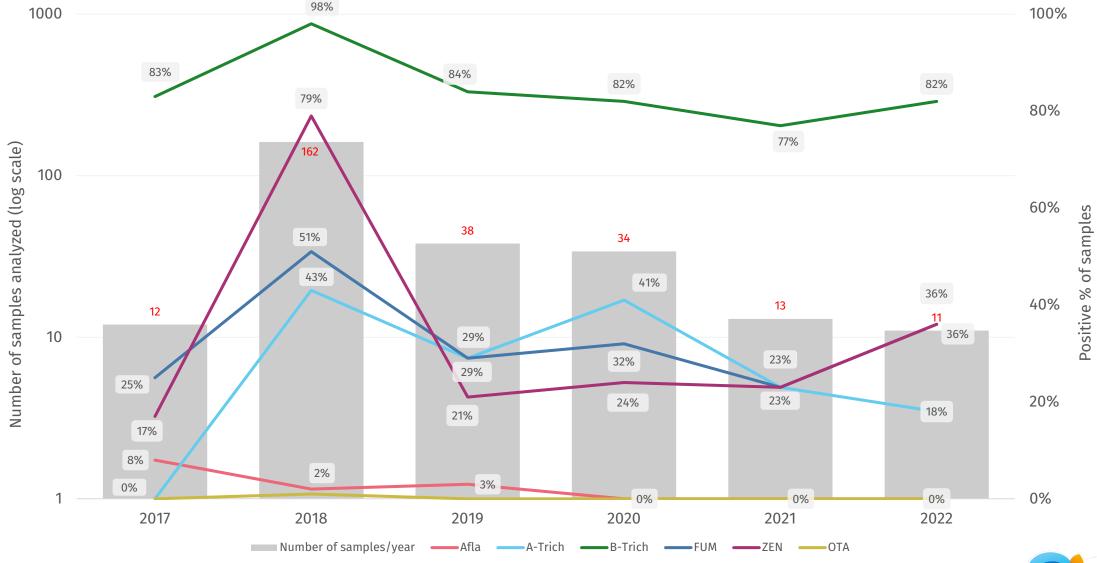


2022 Canadian Corn (dry matter basis)

Occurrence Trend in 2022 Canadian Corn





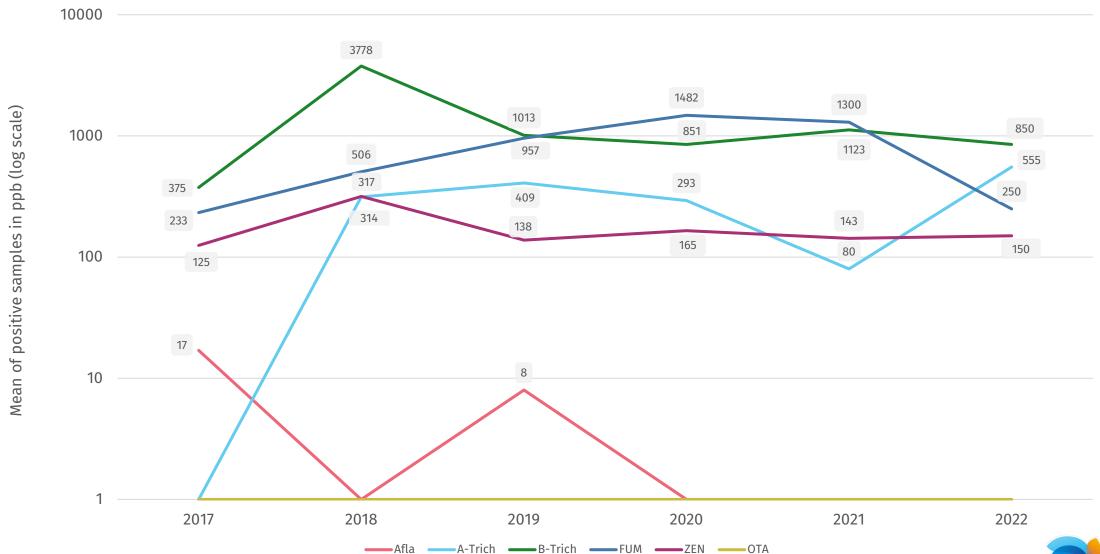




Mean of Positives Trend in 2022 Canadian Corn





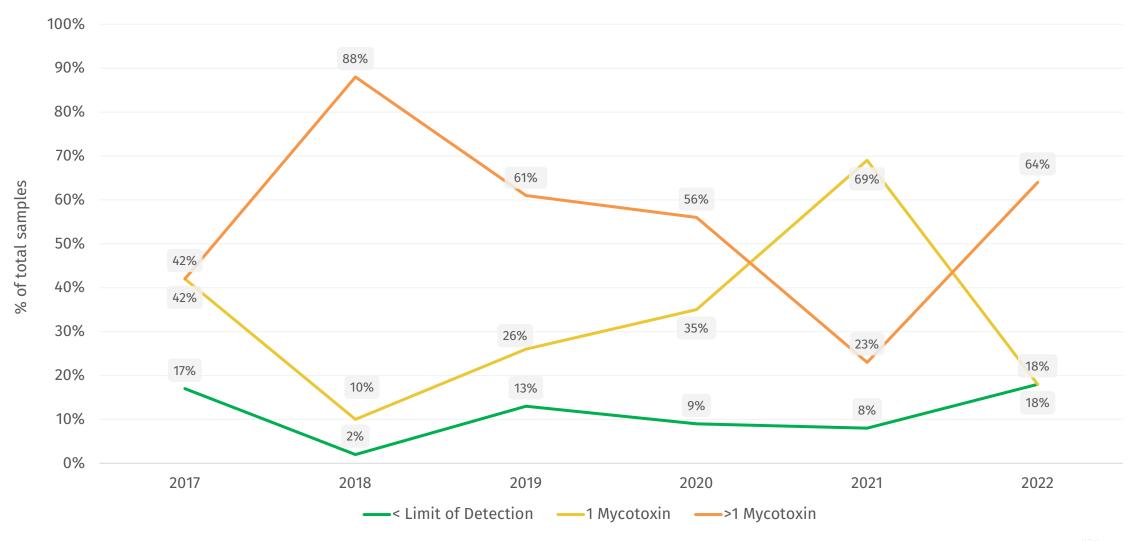




Co-occurrence Trend in 2022 Canadian Corn







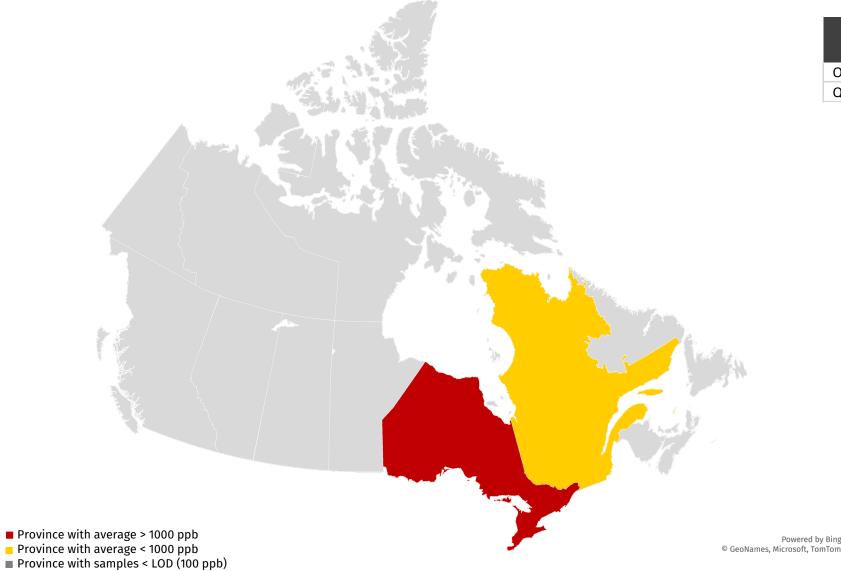


2022 Corn Risk by Province – B-Trich





State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	4	50	1220
Quebec	7	100	744

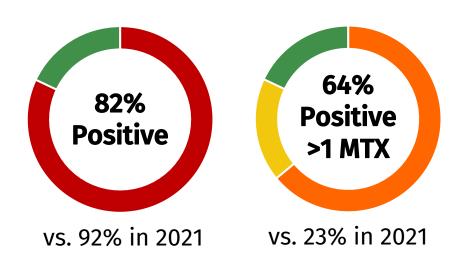




Mycotoxin Survey Summary – 2022 Canadian Corn







B-Trich

• 82% positive / ↑ from 77%

vs. 2021

• 850 ppb / ↓ from 1123 ppb

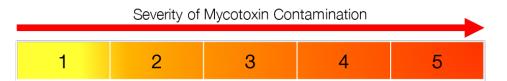
FUM

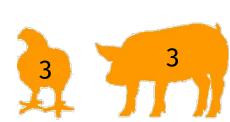
- 36% positive / ↑ from 23%
- 250 ppb / ↓ from 1300 ppb

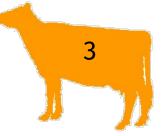
ZEN

- 36% positive / ↑ from 23%
- 150 ppb / ↑ from 143 ppb

Forecasted potential risk for livestock production*:











Questions?



Thank you!

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