

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

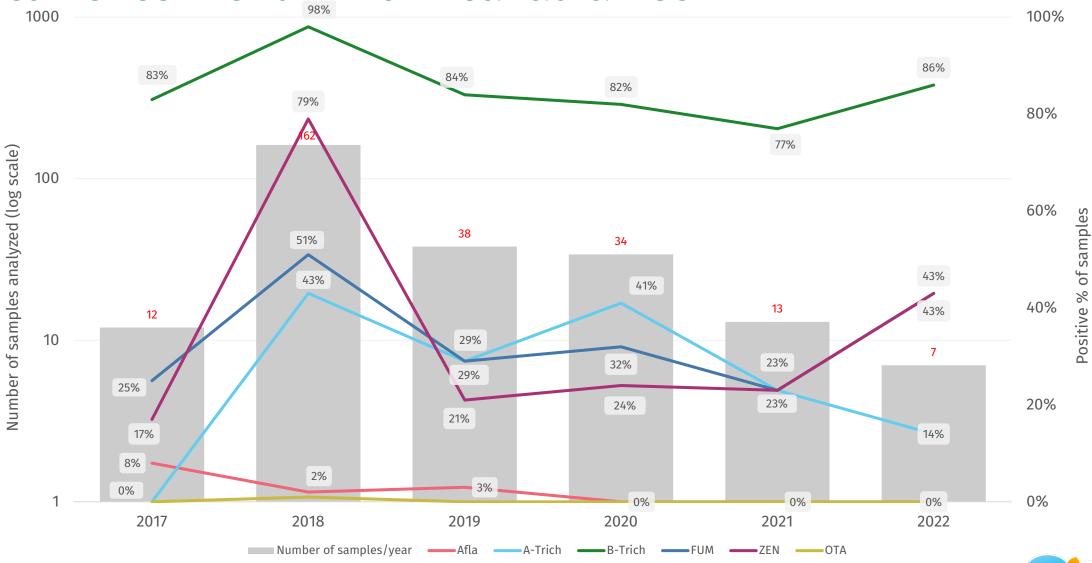


2022 Canadian Corn (dry matter basis)

Occurrence Trend in 2022 Canadian Corn





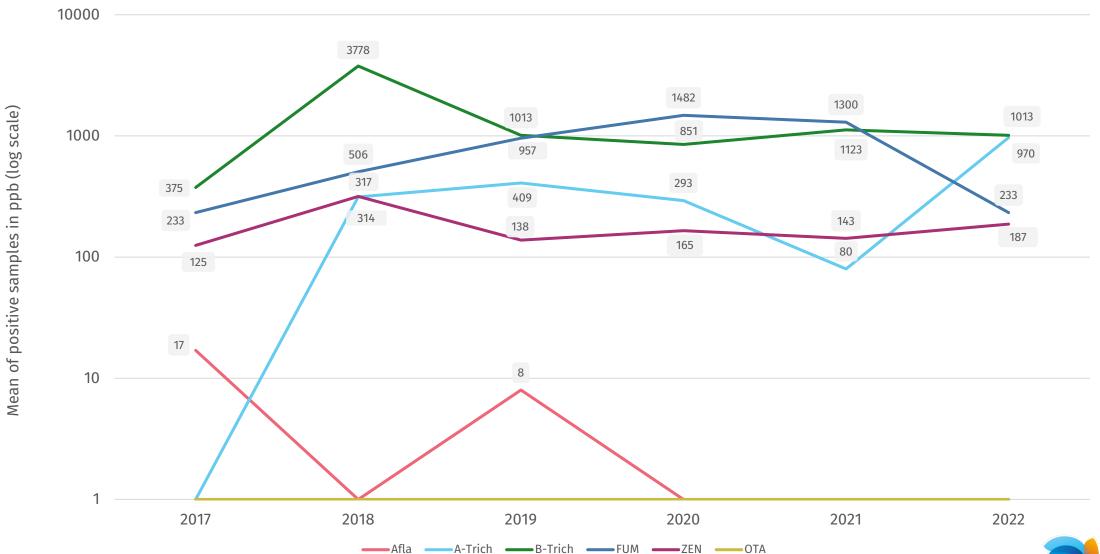




Mean of Positives Trend in 2022 Canadian Corn





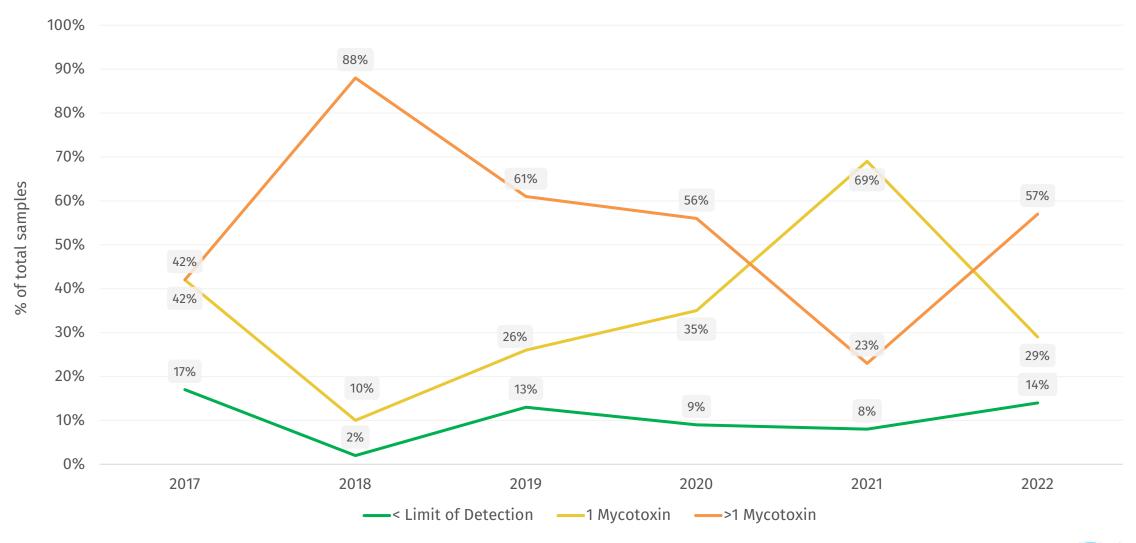




Co-occurrence Trend in 2022 Canadian Corn





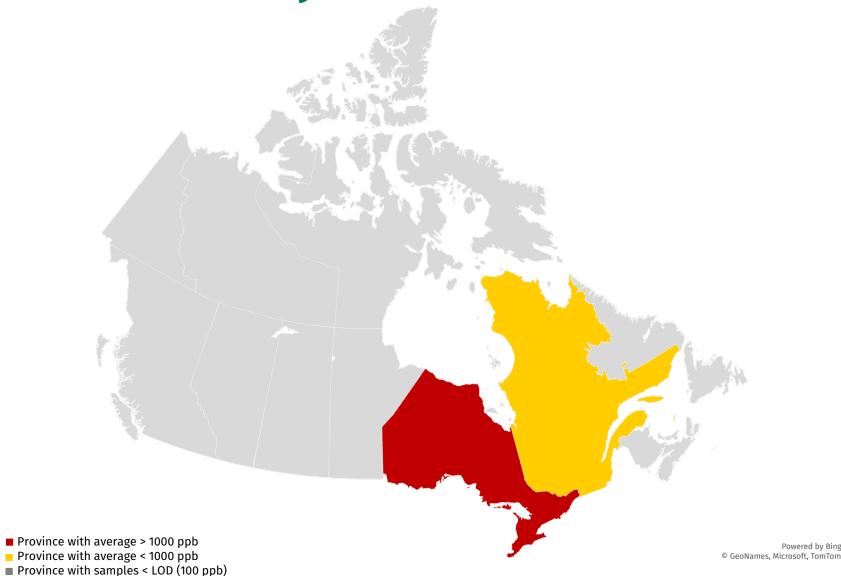




2022 Corn Risk by Province – B-Trich







State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	3	67	1380
Quebec	4	100	830

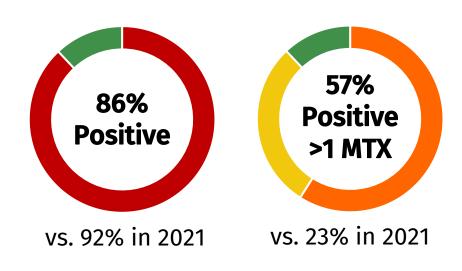


■ No sample submitted

Mycotoxin Survey Summary – 2022 Canadian Corn







B-Trich

• 86% positive / ↑ from 77%

vs. 2021

• 1013 ppb / ↓ from 1123 ppb

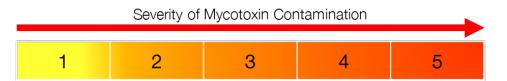
FUM

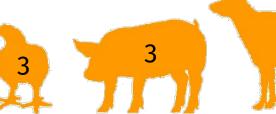
- 43% positive / ↑ from 23%
- 233 ppb / ↓ from 1300 ppb

ZEN

- 43% positive / ↓ from 23%
- 187 ppb / ↑ from 143 ppb

Forecasted potential risk for livestock production*:











Questions?



Thank you!

Paige Gott, PhD
Mycotoxin & Hy-D Manager

<u>paige.gott@dsm.com</u>

+1-210-727-6533



POSM

Erin Schwandt, PhD
Ruminant Technical Manger
erin.schwandt@dsm.com
+1-785-473-3485

Lan Zheng, PhD
Swine Technical Manger
Lan.zheng-tugwell@dsm.com
+1-913-201-5166





Chasity Pender, PhD
Poultry Technical Manger
chasity.pender@dsm.com
+1-210-842-0178



BRIGHT SCIENCE. BRIGHTER LIVING.™