

# Mycotoxin Occurrence in 2021 Canadian Corn Ingredients



# Mycotoxins & Analysis



LC-MS/MS



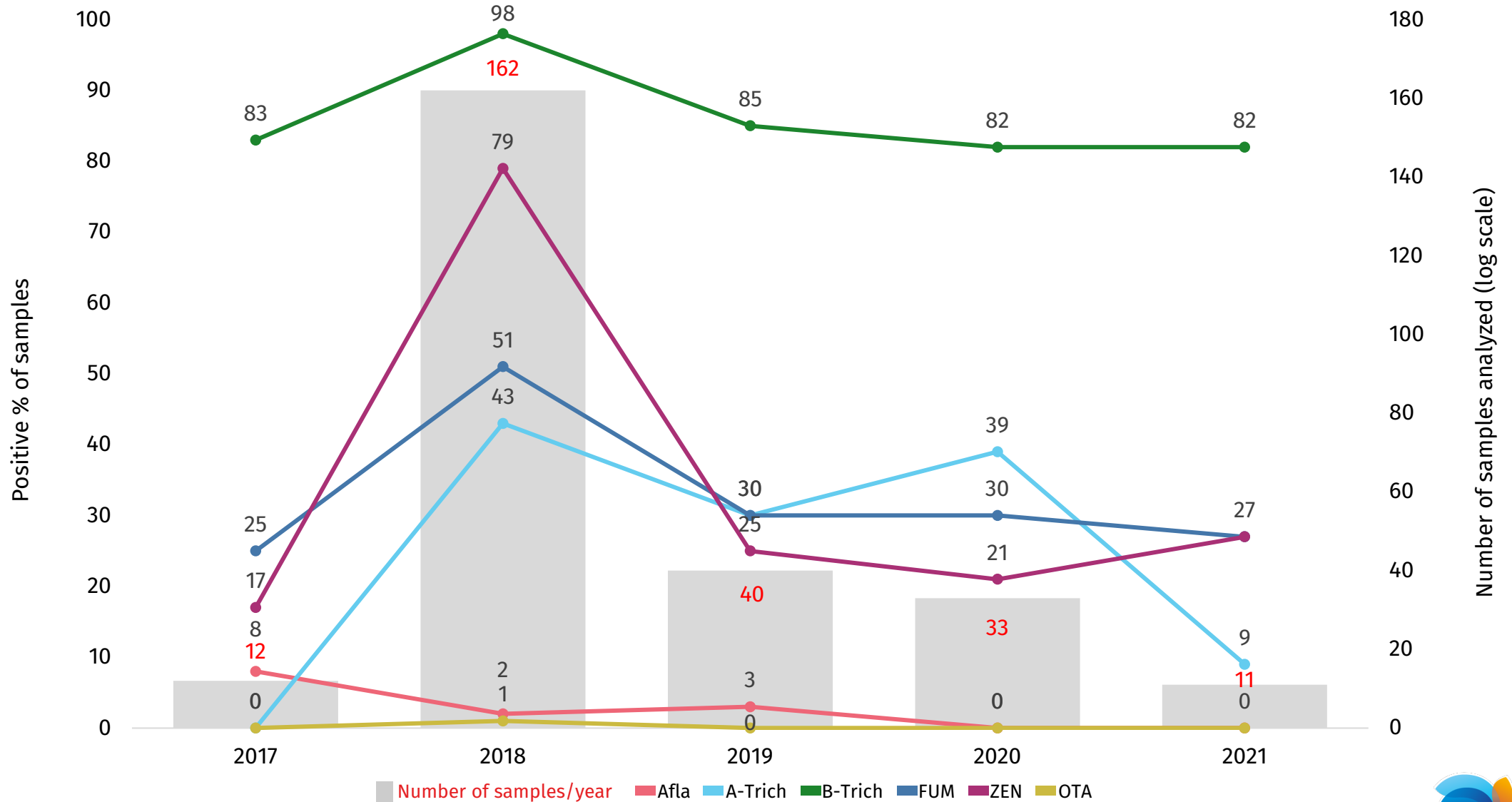
The survey results represent samples sent in for surveillance testing only and does not include any sample submitted following clinical signs.

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	Sterigmatocystin	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)

# 2021 Canadian Corn (dry matter basis)

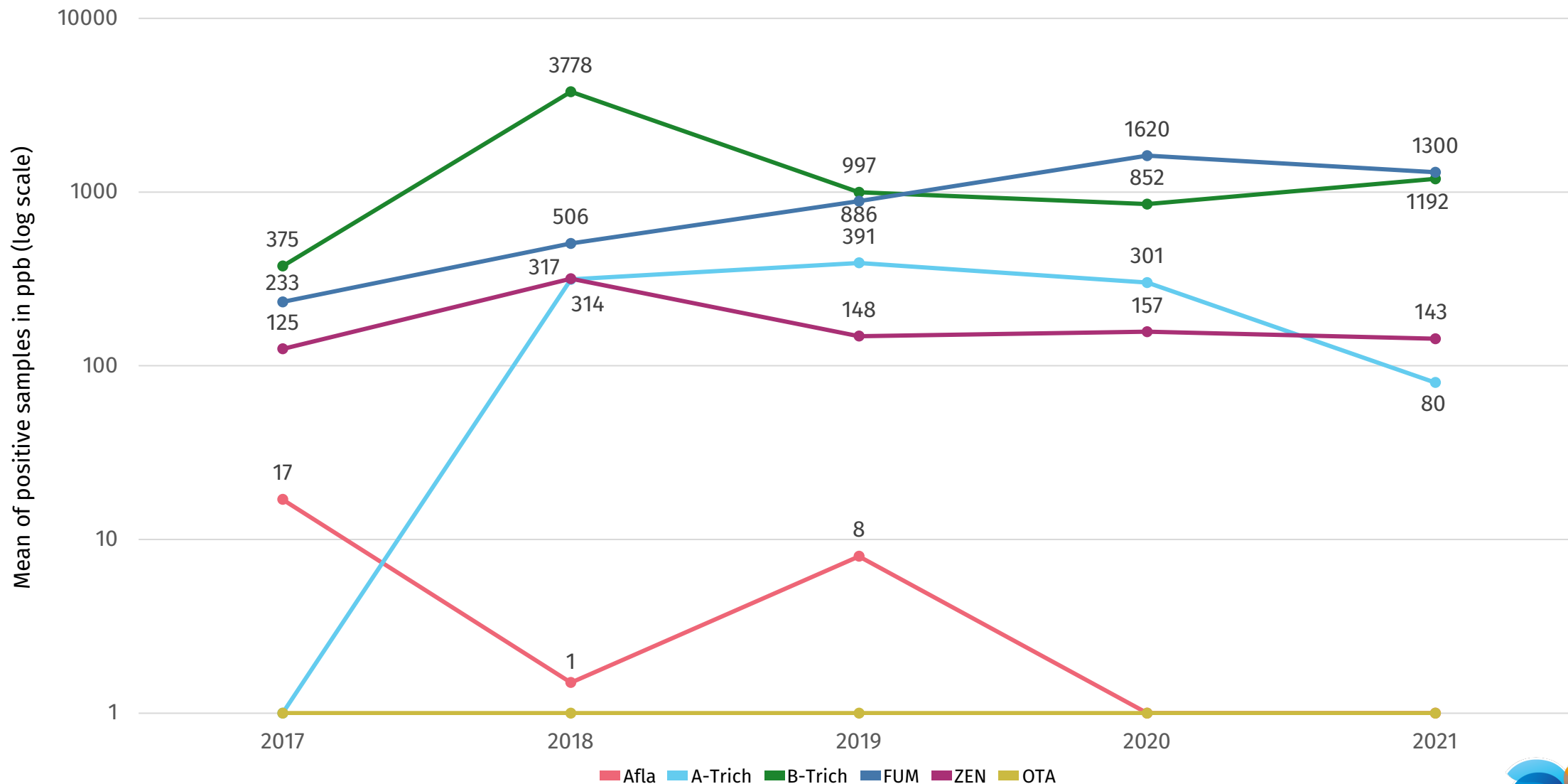
# Occurrence Trend in 2021 Canadian Corn



Based on the samples analyzed.



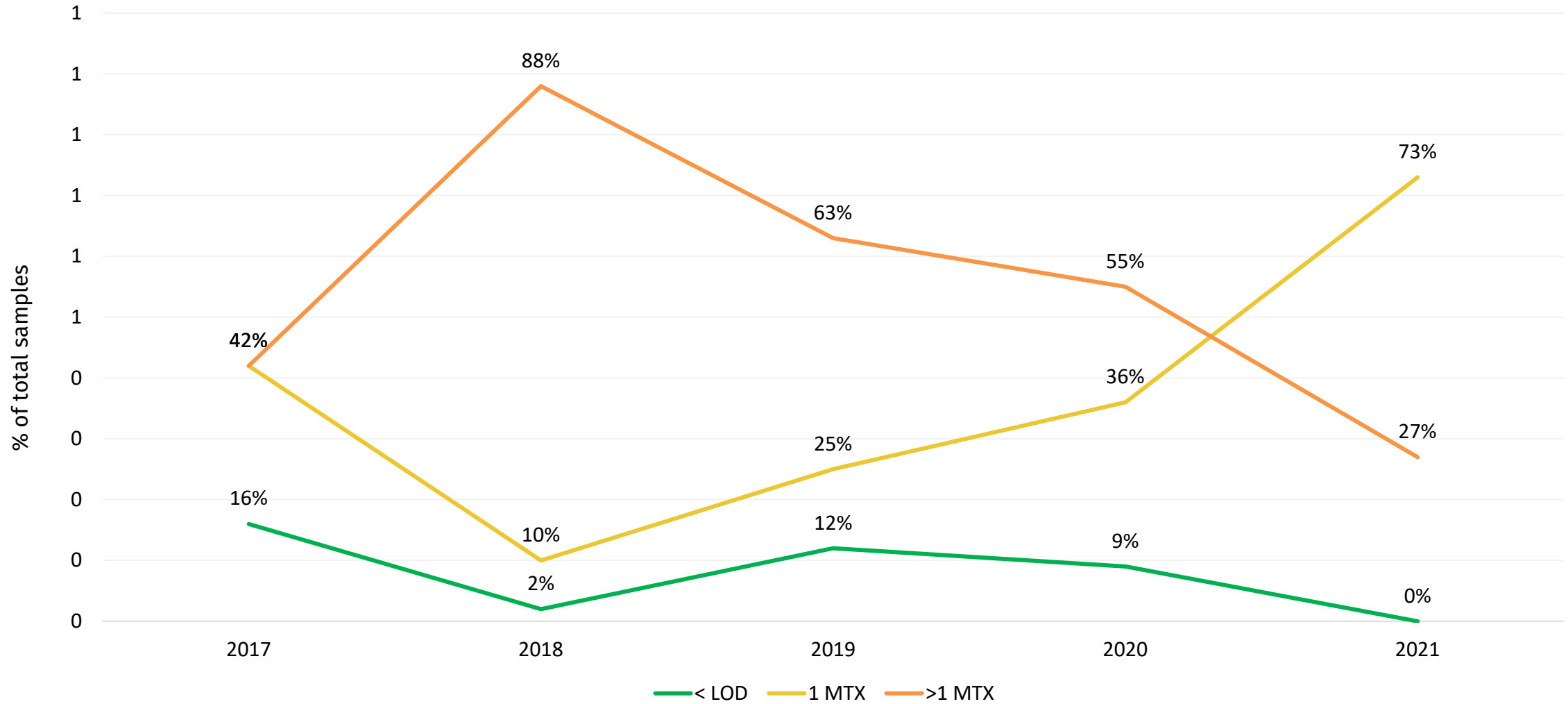
# Mean of Positives Trend in 2021 Canadian Corn



Based on the samples analyzed.



# Co-occurrence Trend in 2021 Canadian Corn



# 2021 Corn Risk by Province – B-Trich



Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Quebec	7	71%	1332
Ontario	4	100%	1018

- State with average > 1,000 ppb
- State with average < 1,000 ppb
- State with samples < LOD (60 ppb)
- No sample submitted

# 2021 Corn Risk by Province – FUM



Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Quebec	7	29%	1850
Ontario	4	25%	200

- State with average > 2,000 ppb
- State with average < 2,000 ppb
- State with samples < LOD (100 ppb)
- No sample submitted



# 2021 Corn Risk by Province – ZEN



Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	4	25%	290
Quebec	7	29%	70

- State with average > 100 ppb
- State with average < 100 ppb
- State with samples < LOD (30 ppb)
- No sample submitted



# Mycotoxin Survey Summary – 2021 Canadian Corn



**100%** positive vs.  
91% in 2020



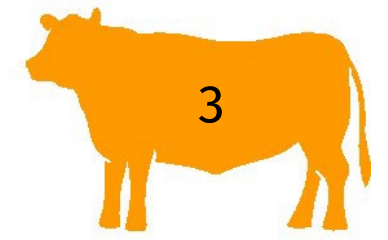
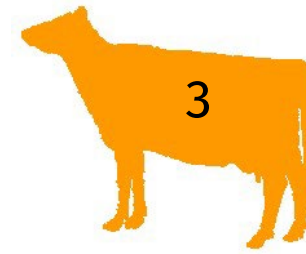
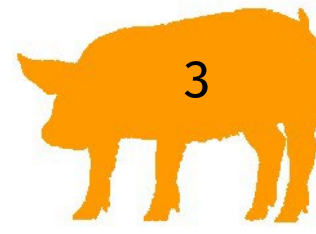
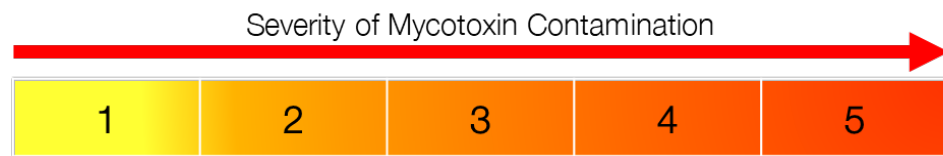
**27%** >1 MTX vs.  
55% in 2020

**B-Trich:** 82% vs. 82%

**FUM:** 27% vs. 32%

**ZEN:** 27% vs. 24%

## Forecasted potential risk for livestock production\*:



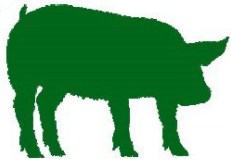
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