



# Mycotoxin Occurrence in 2022 Canadian Corn Silage

DECEMBER 2022

**MYCOTOXIN** *monthly*



**DSM**

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# Mycotoxins & Analysis



**LC-MS/MS**



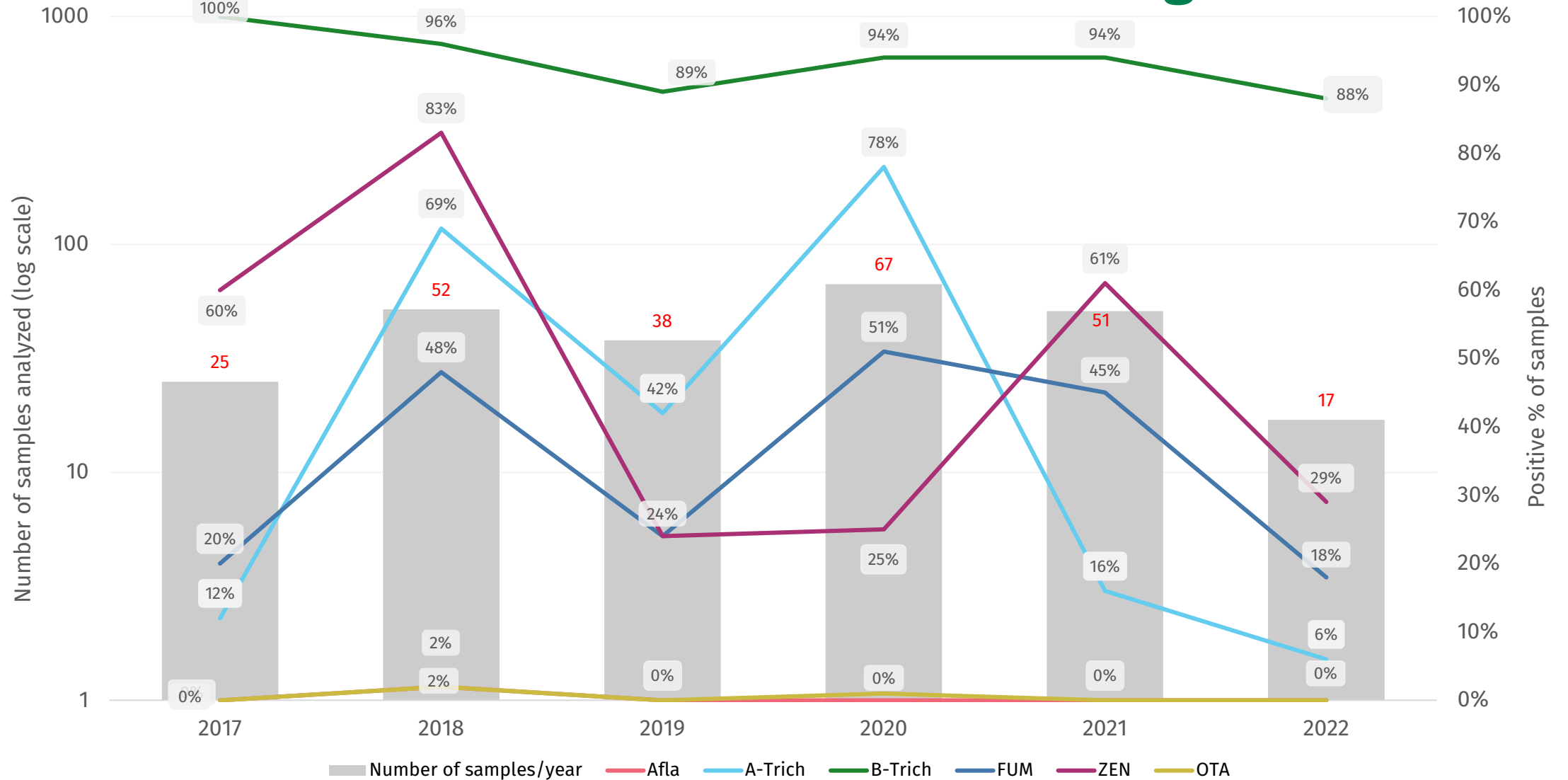
The survey results represent samples sent in for surveillance testing only and does not include any sample submitted following clinical signs.

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

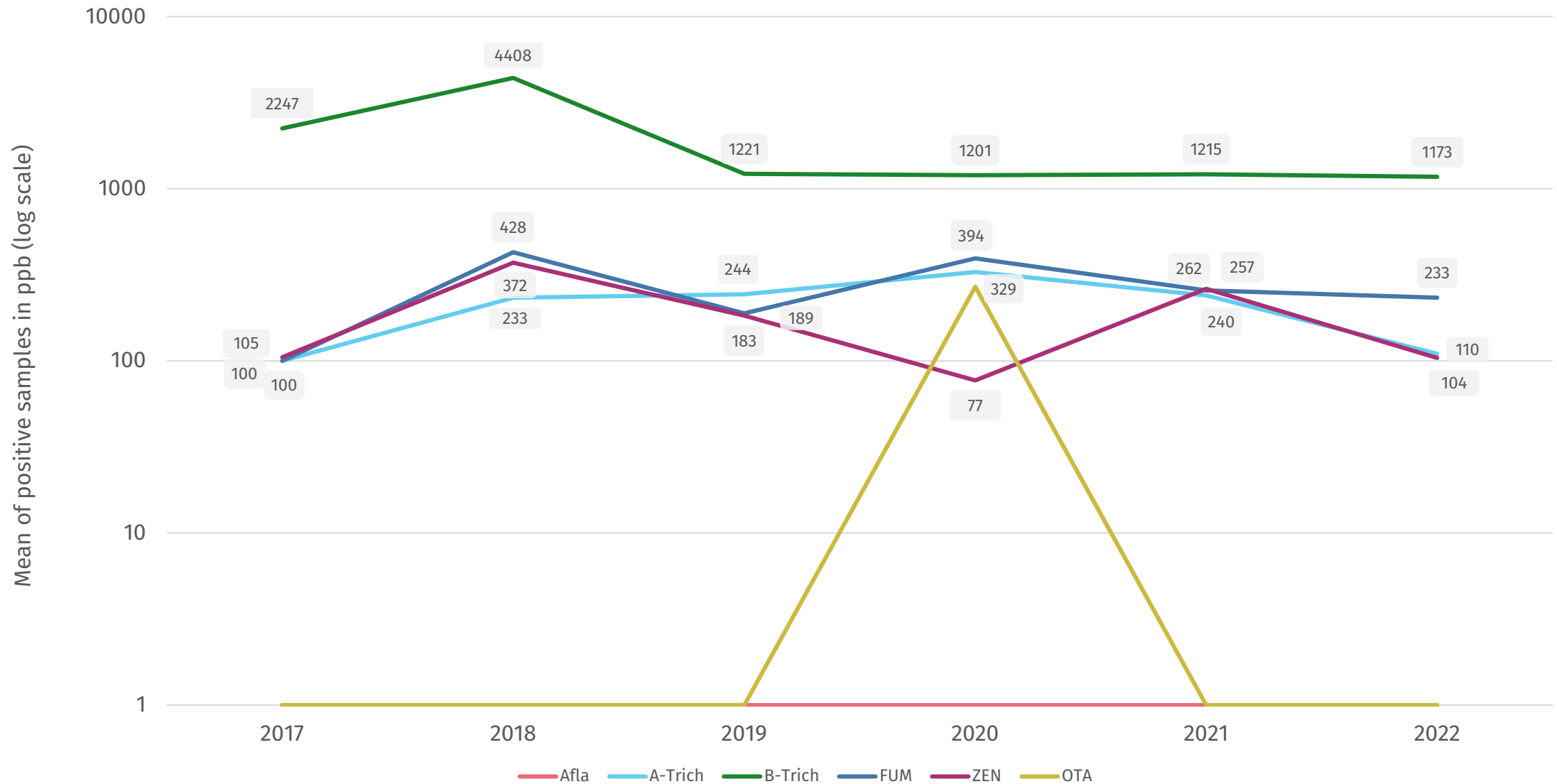
\*Results are reported as the summation of mycotoxin levels detected per Mycotoxin Group.  
(For example, B-Trich represents total contamination detected for DON + 3-AcDON + 15-AcDON)

# 2022 Canadian Corn Silage (dry matter basis)

# Occurrence Trend in 2022 Canadian Corn Silage

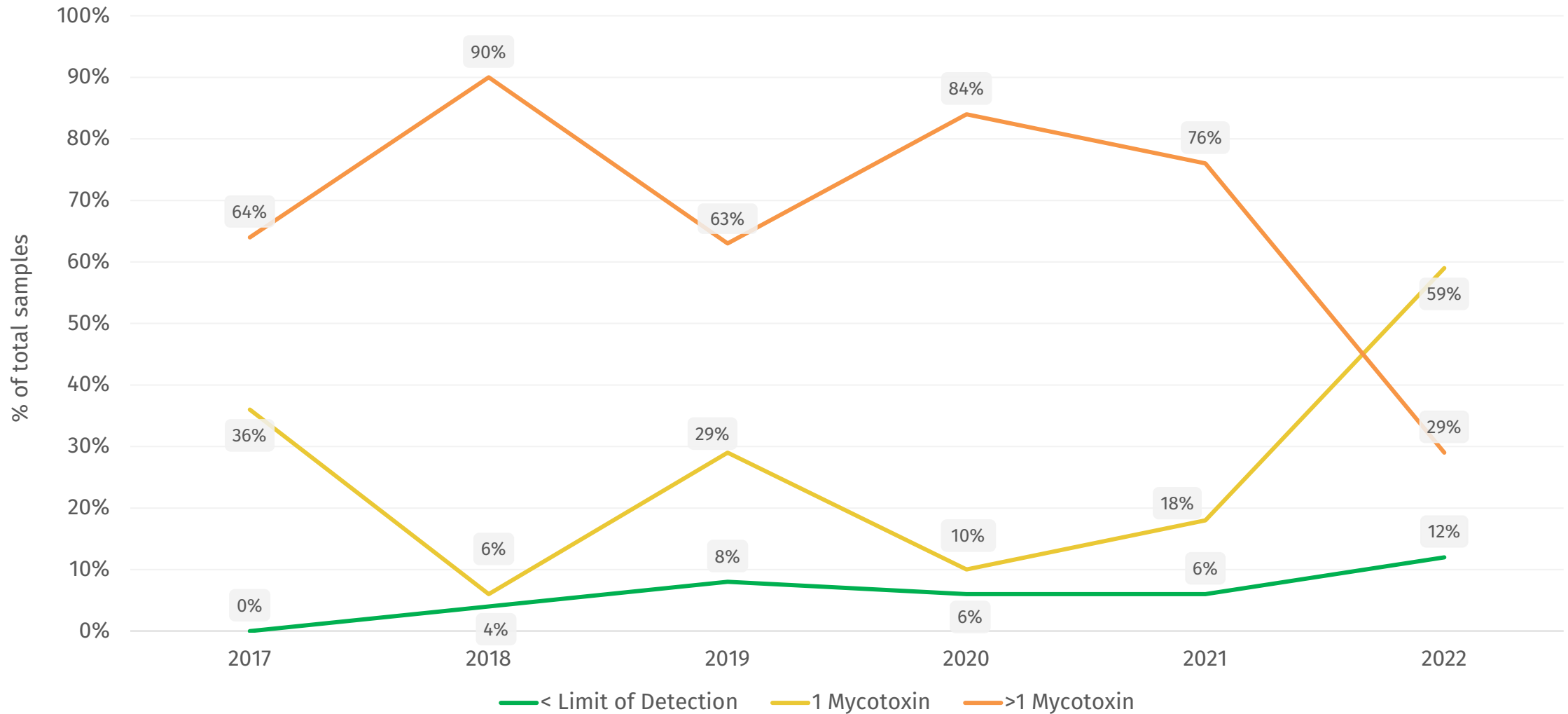


# Mean of Positives Trend in 2022 Canadian Corn Silage



Based on the samples analyzed.

# Co-occurrence Trend in 2022 Canadian Corn Silage



# 2022 Corn Silage Risk by Province – B-Trich



State	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	6	83	1244
Quebec	11	91	1138

- Province with average > 1000 ppb
- Province with average < 1000 ppb
- Province with samples < LOD (100 ppb)
- No sample submitted

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Based on the samples analyzed in this region.





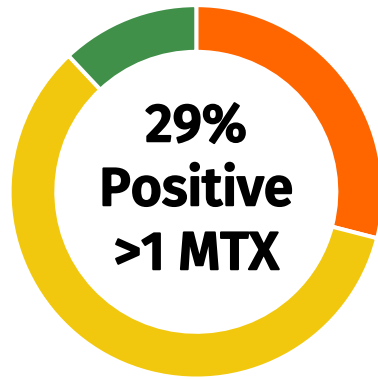
# Mycotoxin Survey Summary – 2022 Canadian Corn Silage



17 corn silage samples submitted from 2 provinces



vs. 94% in 2021



vs. 76% in 2021

vs. 2021



- 88% positive / ↓ from 94%
- 1173 ppb / ↓ from 1215 ppb

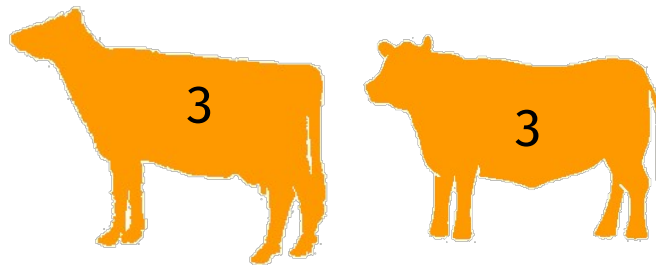
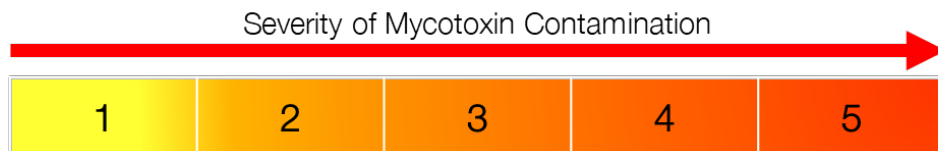


- 18% positive / ↓ from 45%
- 233 ppb / ↓ from 257 ppb



- 29% positive / ↓ from 61%
- 104 ppb / ↓ from 262 ppb

## Forecasted potential risk for livestock production\*:



\*Based on the samples analyzed.





# Questions?



# Thank you!

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