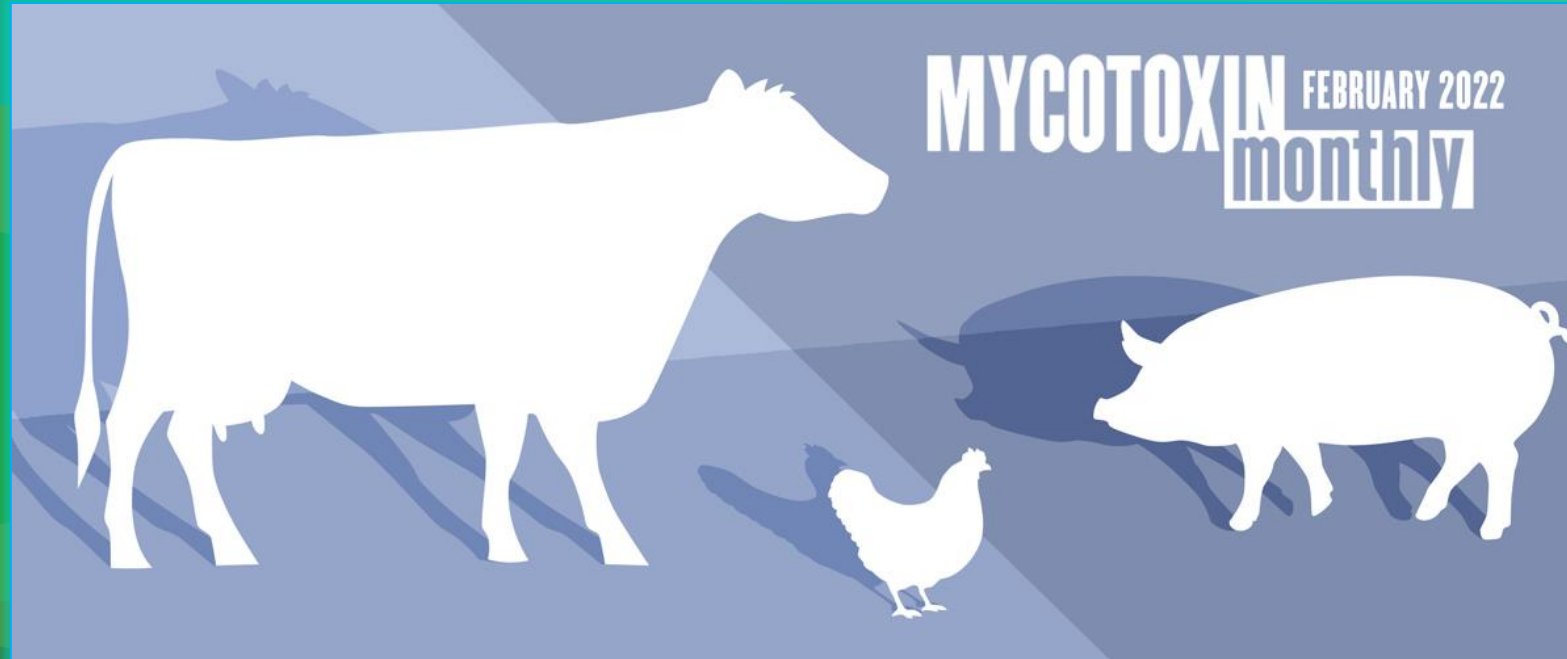


# Mycotoxin Occurrence in 2021 Canadian Corn Silage



# Mycotoxins & Analysis



**LC-MS/MS**

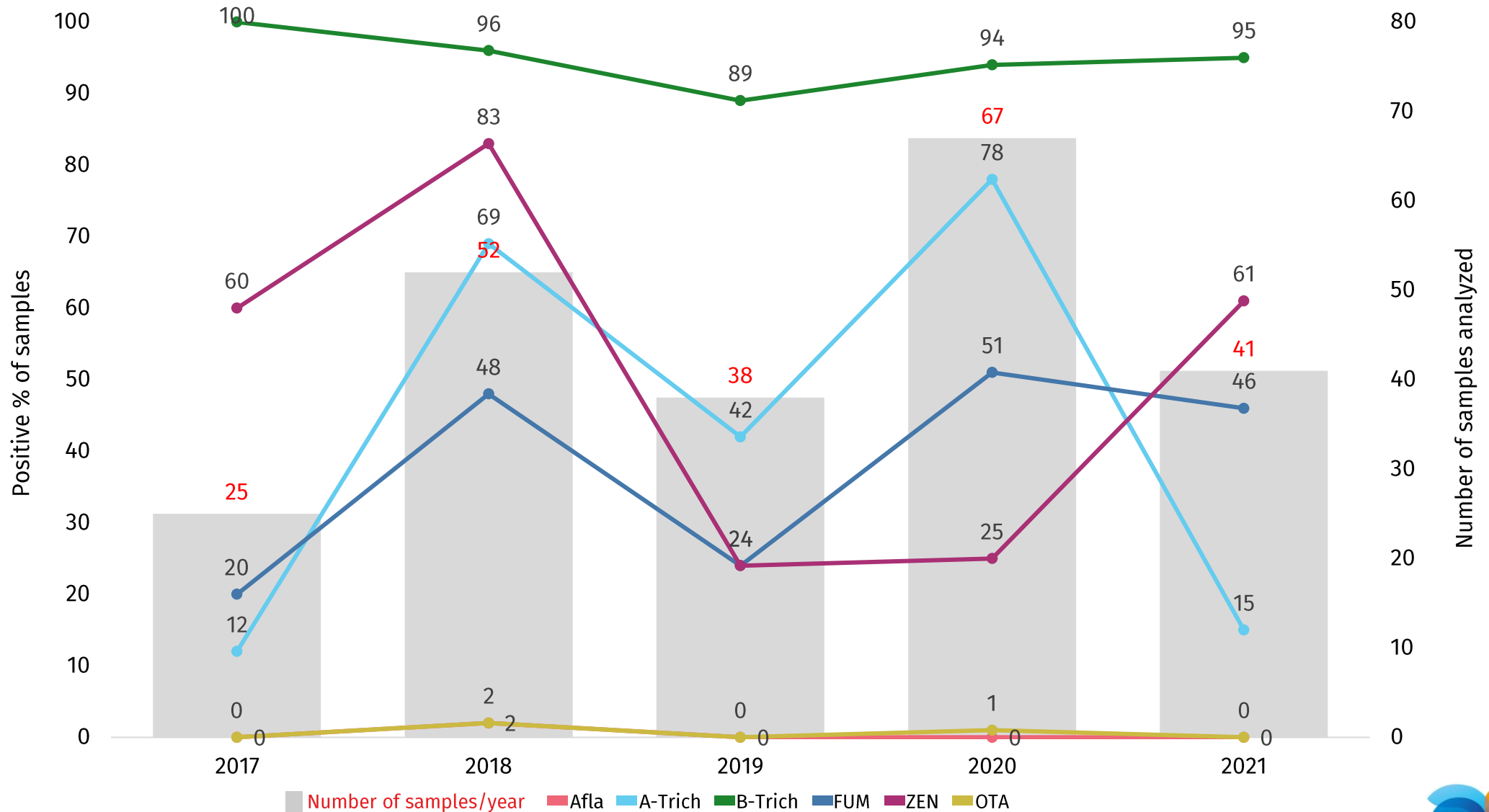


The survey results represent samples sent in for surveillance testing only and does not include any sample submitted following clinical signs.

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

# 2021 Canadian Corn Silage (dry matter basis)

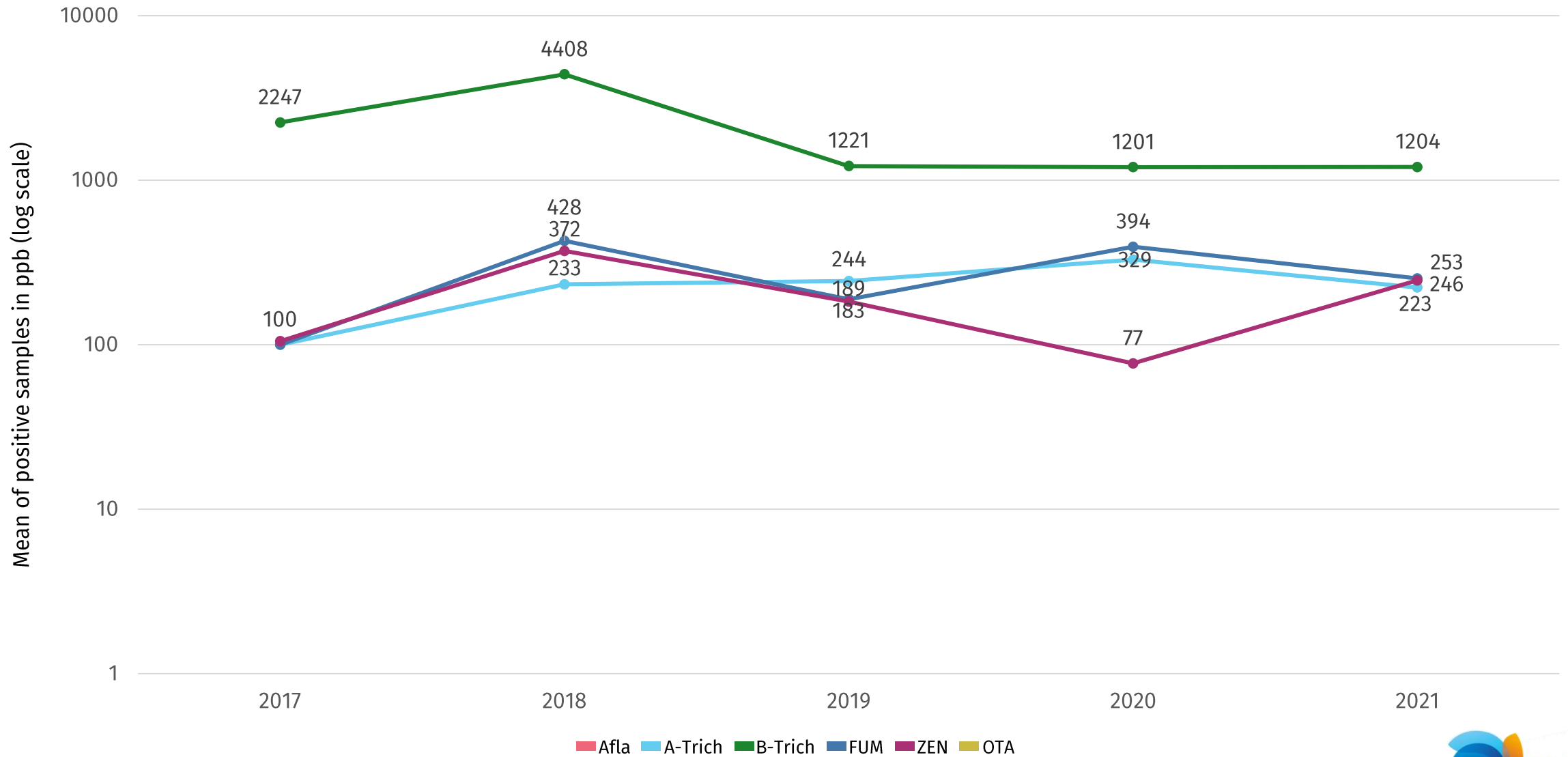
# Occurrence Trend in 2021 Canadian Corn Silage



Based on the samples analyzed.



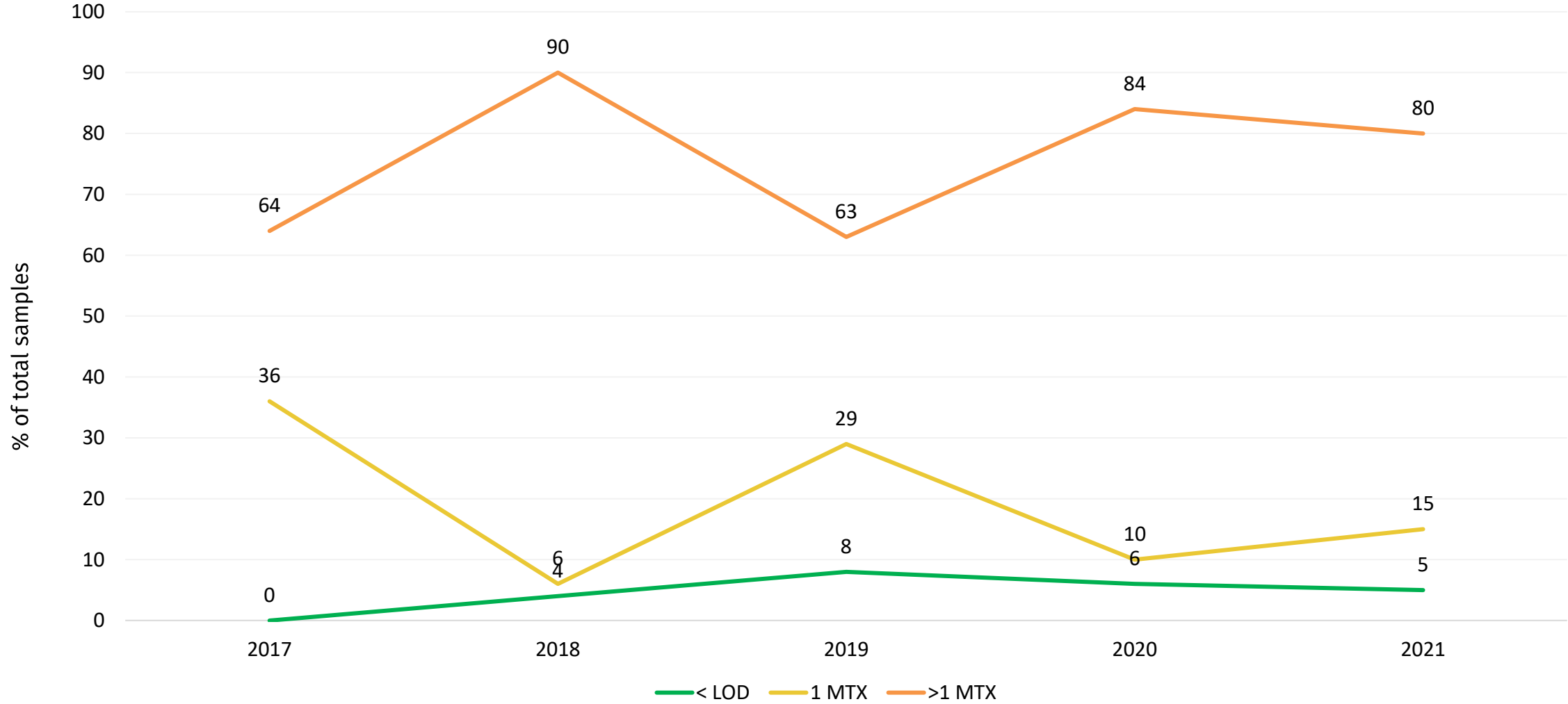
# Mean of Positives Trend in 2021 Canadian Corn Silage



Based on the samples analyzed.



# Co-occurrence Trend in 2021 Canadian Corn Silage



Based on the samples analyzed.



# 2021 Corn Silage Risk by Province – A-Trich



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

Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	7	0	0
Quebec	34	18	223



# 2021 Corn Silage Risk by Province – B-Trich



Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	7	100	784
Quebec	34	94	1296

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





# 2021 Corn Silage Risk by Province – FUM



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

Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	7	43	167
Quebec	34	47	269

# 2021 Corn Silage Risk by Province – ZEN



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

Province	Number of Samples	% Positive Samples	Avg of Positive Samples
Ontario	7	71	144
Quebec	34	59	271



# Mycotoxin Survey Summary – 2021 Canadian Corn Silage



**95%** positive vs.  
94% in 2020



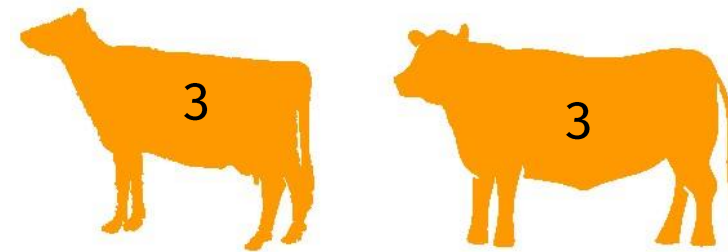
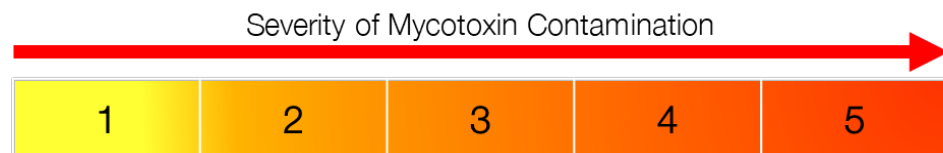
**80%** >1 MTX vs.  
84% in 2020

**B-Trich:** 95% vs. 94%

**FUM:** 46% vs. 51%

**ZEN:** 61% vs. 25%

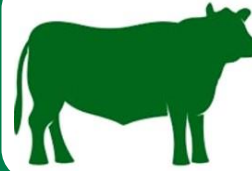
## Forecasted potential risk for livestock production\*:



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