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
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	Sterigmatocystin	30.0
Mycophenolic Acid (MPA)	Mycophenolic Acid (MPA)	30.0



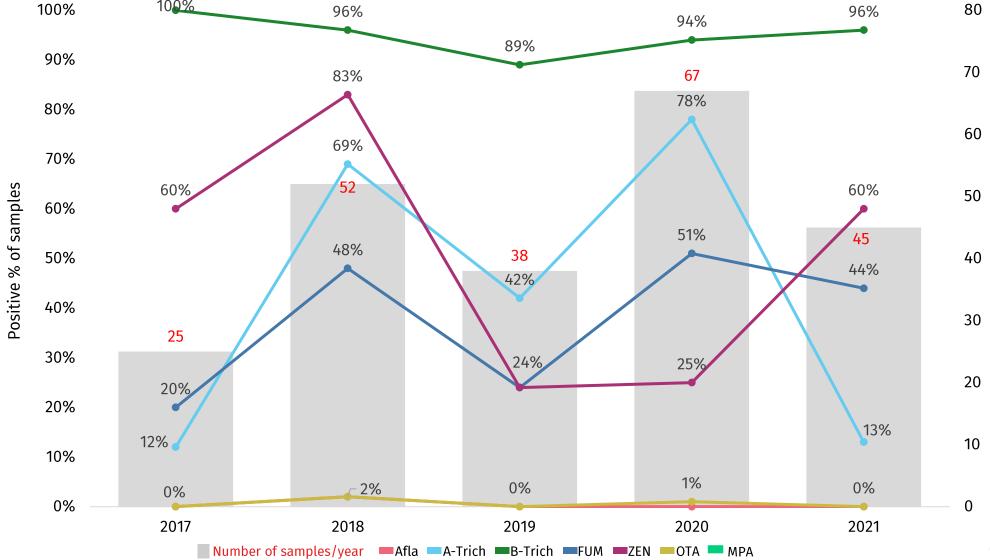
2021 Canadian Corn Silage (dry matter basis)



Occurrence Trend in 2021 Canadian Corn Silage







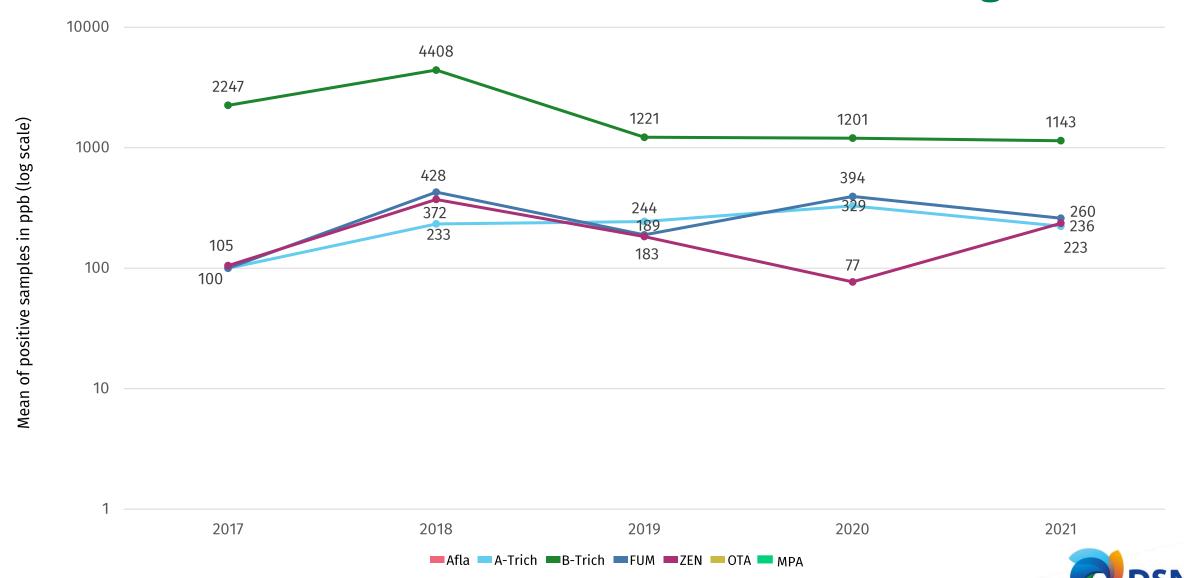


Number of samples analyzed

Mean of Positives Trend in 2021 Canadian Corn Silage



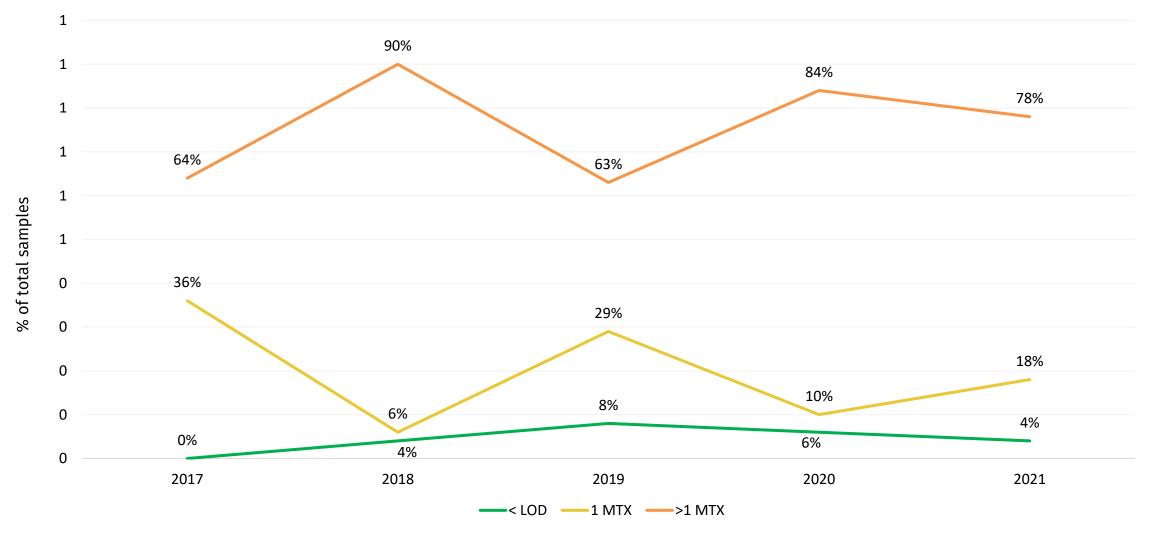














2021 Corn Silage Risk by Province – A-Trich



Positive

0

Number of % Positive

17%

Samples







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

2021 Corn Silage Risk by Province – B-Trich



Avg of

Positive

100

Number of % Positive

94%

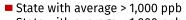
100%

Samples

8







State with average < 1,000 ppb



[■] State with samples < LOD (60 ppb)

[■] No sample submitted

2021 Corn Silage Risk by Province – FUM



Avg of

Positive

Number of % Positive

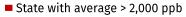
44%

Samples 36

8







[■] State with average < 2,000 ppb



[■] State with samples < LOD (100 ppb)

[■] No sample submitted

2021 Corn Silage Risk by Province – ZEN



Avg of

Positive

Samples

Number of % Positive

Samples

58% 75%

Samples







[■]State with average > 100 ppb

[■] State with average < 100 ppb

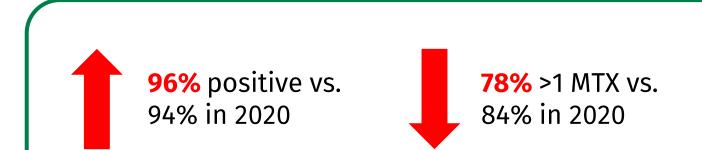
[■] State with samples < LOD (30 ppb)

[■] No sample submitted

Mycotoxin Survey Summary – 2021 Canadian Corn Silage







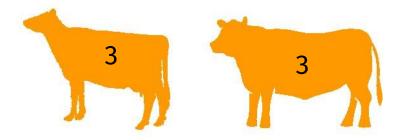
B-Trich: 96% vs. 94%

FUM: 44% vs. 51%

ZEN: 60% vs. 25%

Forecasted potential risk for livestock production*:

Severity of Mycotoxin Contamination					
1	2	3	4	5	





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