Mycotoxin Occurrence in 2021 Canadian Corn Ingredients

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Mycotoxins & Analysis

LC-MS/MS

Actlabs
Quality Analysis... Innovative Technologies

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

*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)

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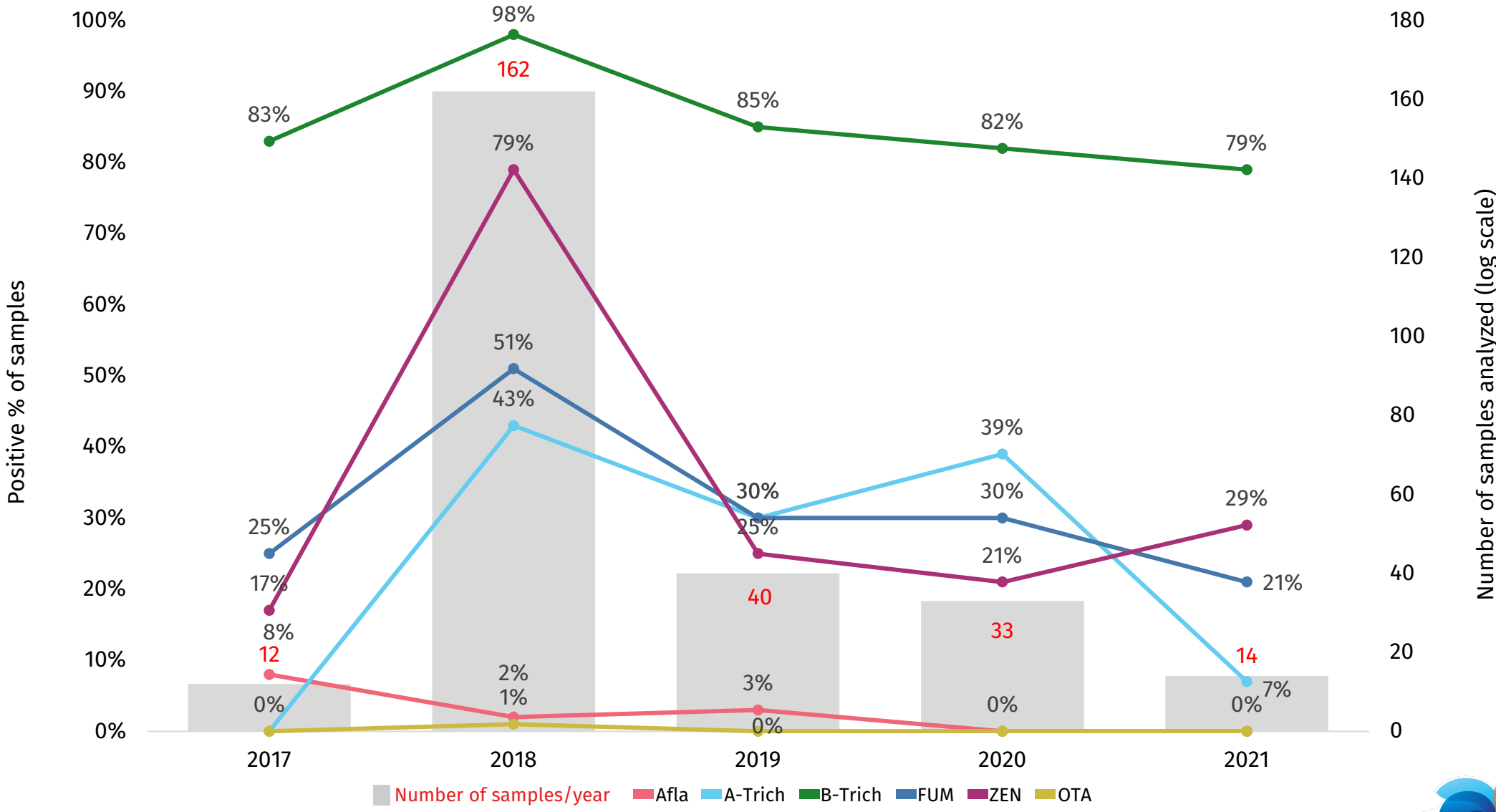
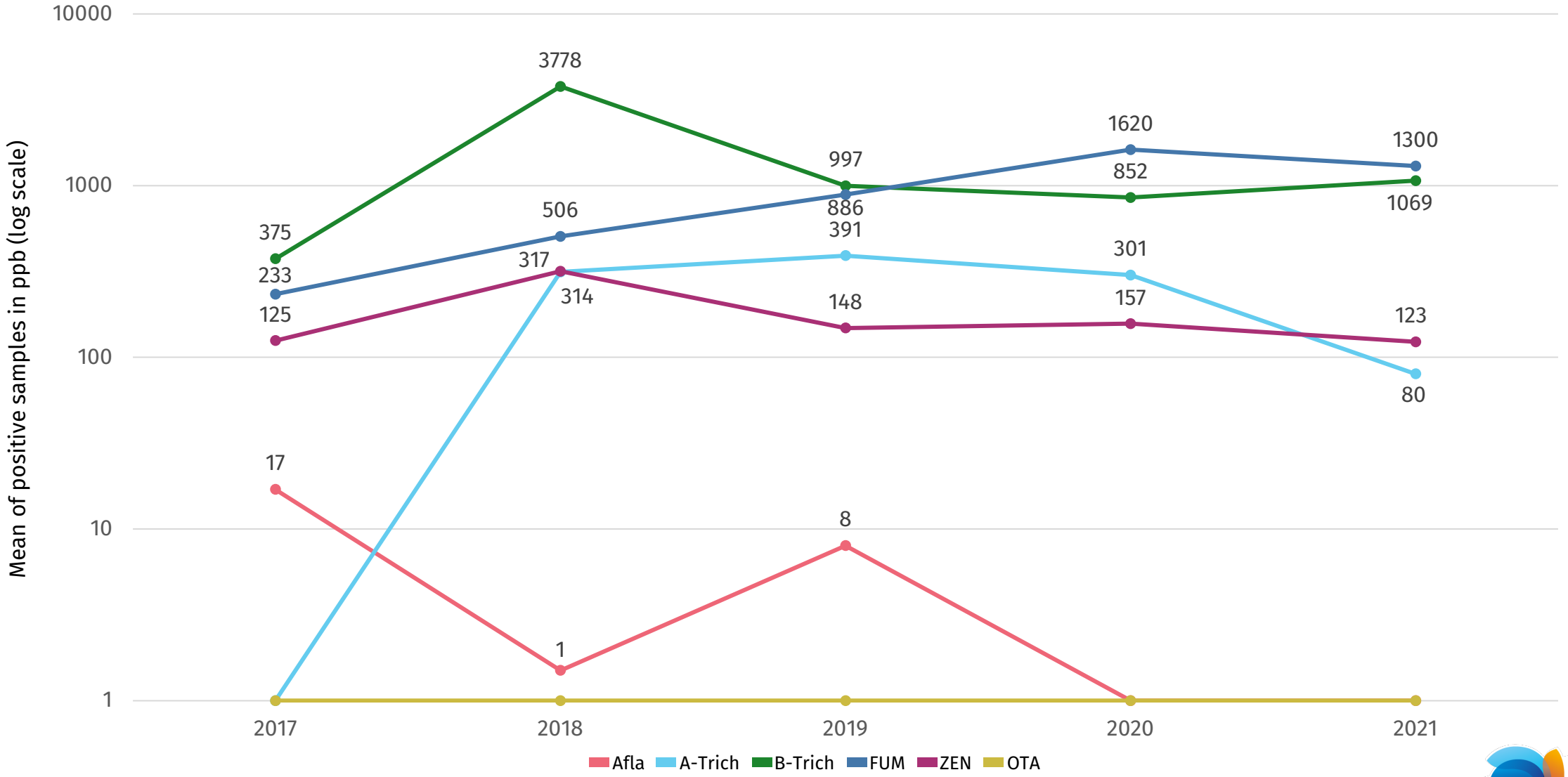
2021 Canadian Corn (dry matter basis)

Occurrence Trend in 2021 Canadian Corn



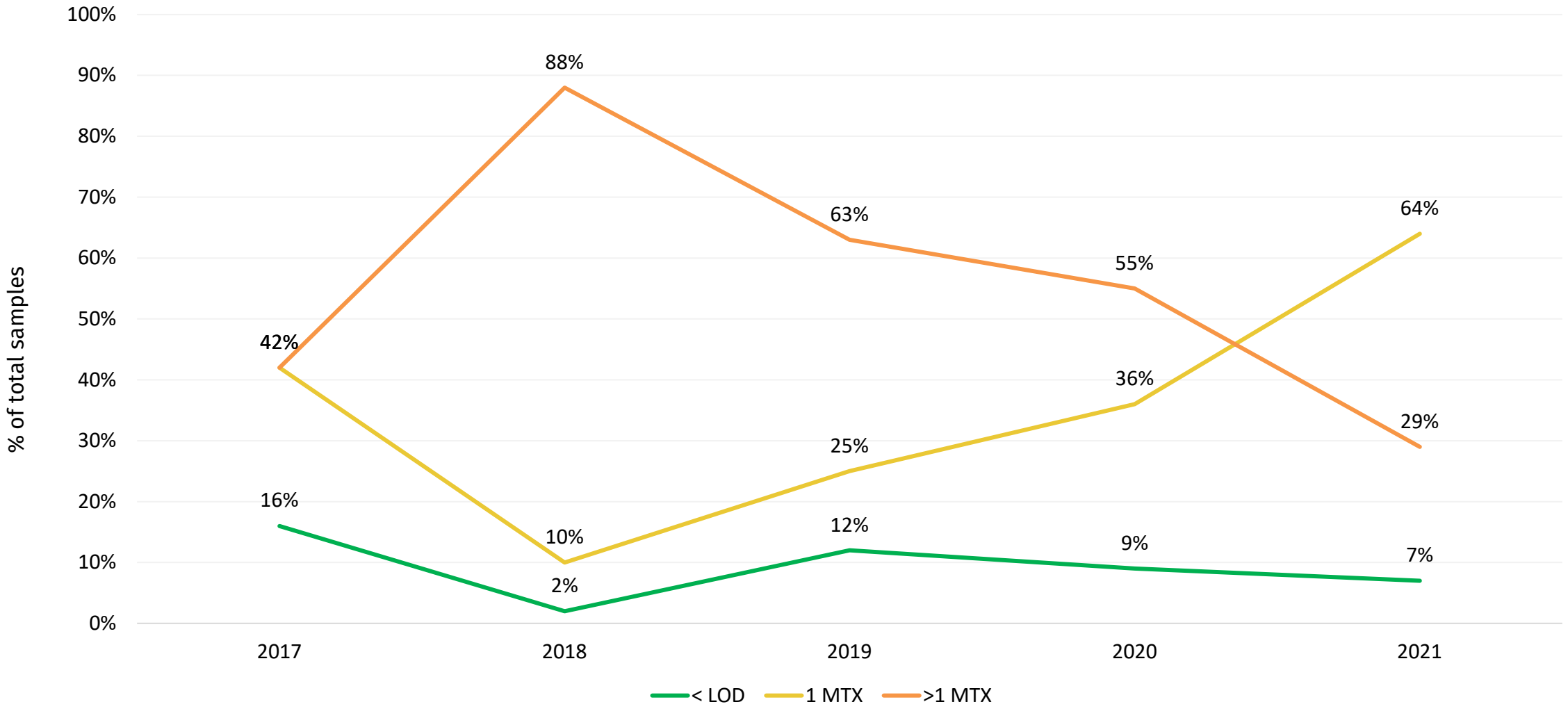
Based on the samples analyzed.

Mean of Positives Trend in 2021 Canadian Corn



Based on the samples analyzed.

Co-occurrence Trend in 2021 Canadian Corn



Based on the samples analyzed.

Mycotoxin Survey Summary – 2021 Canadian Corn

93% positive vs. 91% in 2020

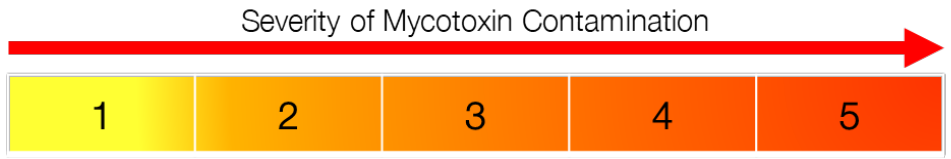
29% >1 MTX vs. 55% in 2020

B-Trich: 79% vs. 82%

FUM: 21% vs. 30%

ZEN: 29% vs. 21%

Forecasted potential risk for livestock production*:



*Based on the samples analyzed.

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