

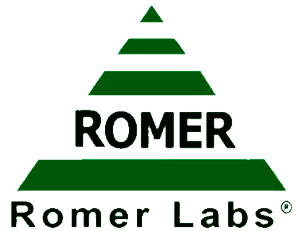
Mycotoxin Occurrence in 2020 US Corn Silage July 2021 Update

Jul 2, 2021

Mycotoxins & Analysis



LC-MS/MS



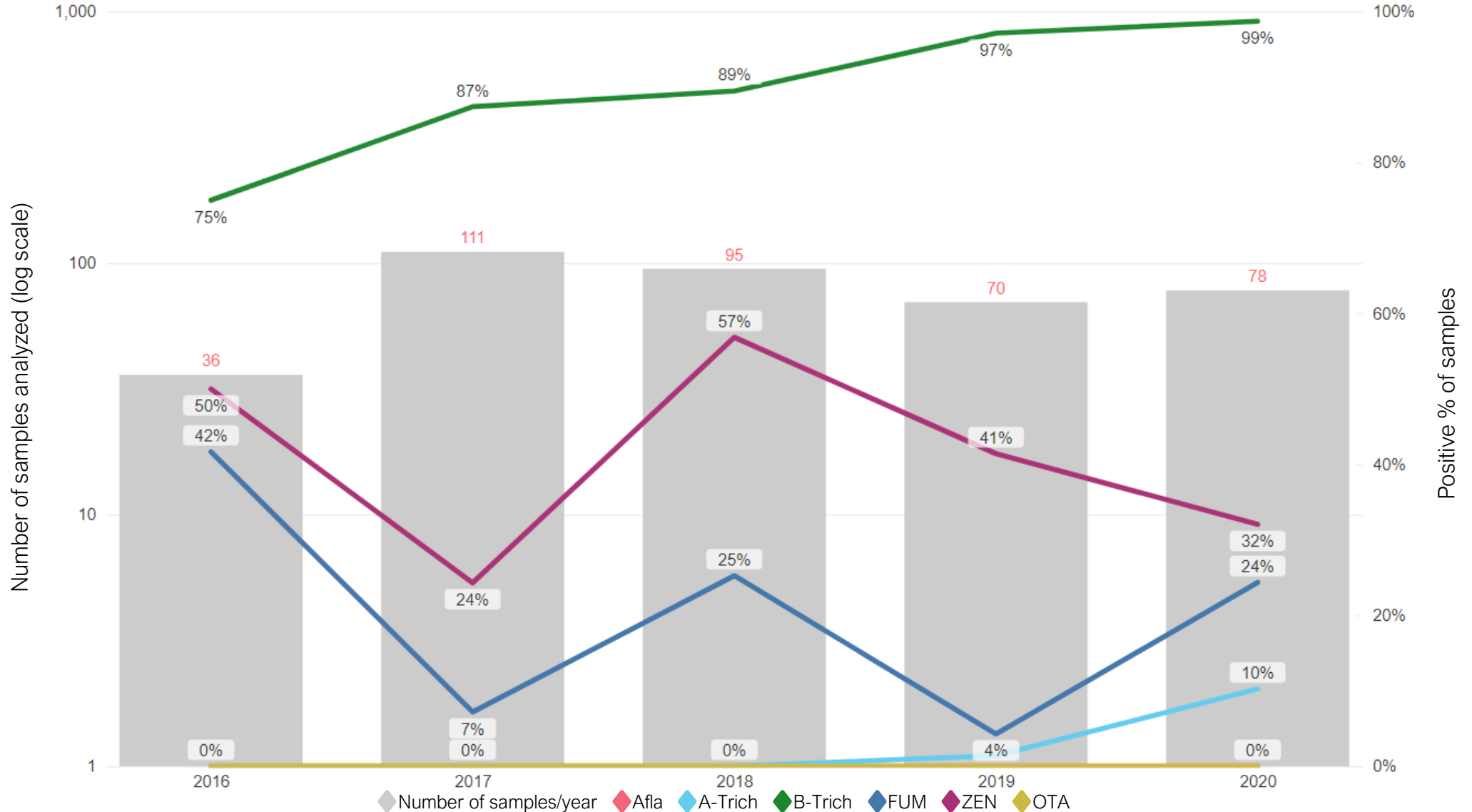
2 Labs

Mycotoxin Group	Mycotoxins	Limit of Detection (ppb)
Aflatoxins (AFLA)	Aflatoxin B1	1.3
	Aflatoxin B2	1.2
	Aflatoxin G1	1.1
	Aflatoxin G2	1.6
A-Trichothecenes (A-Trich)	T-2	100.0
	HT-2	100.0
	Neosolaniol	100.0
	Diacetoxyscirpenol (DAS)	100.0
B-Trichothecenes (B-Trich)	Deoxynivalenol (DON/Vomitoxin)	100.0
	Acetyl-deoxynivalenol (A-DON)	100.0
	Nivalenol (NIV)	100.0
	Fusarenon X (FUS-X)	100.0
Fumonisin (FUM)	Fumonisin B1	100.0
	Fumonisin B2	100.0
	Fumonisin B3	100.0
Zearalenone (ZEN)	Zearalenone (ZEN)	51.7
Ochratoxin A (OTA)	Ochratoxin A (OTA)	1.1

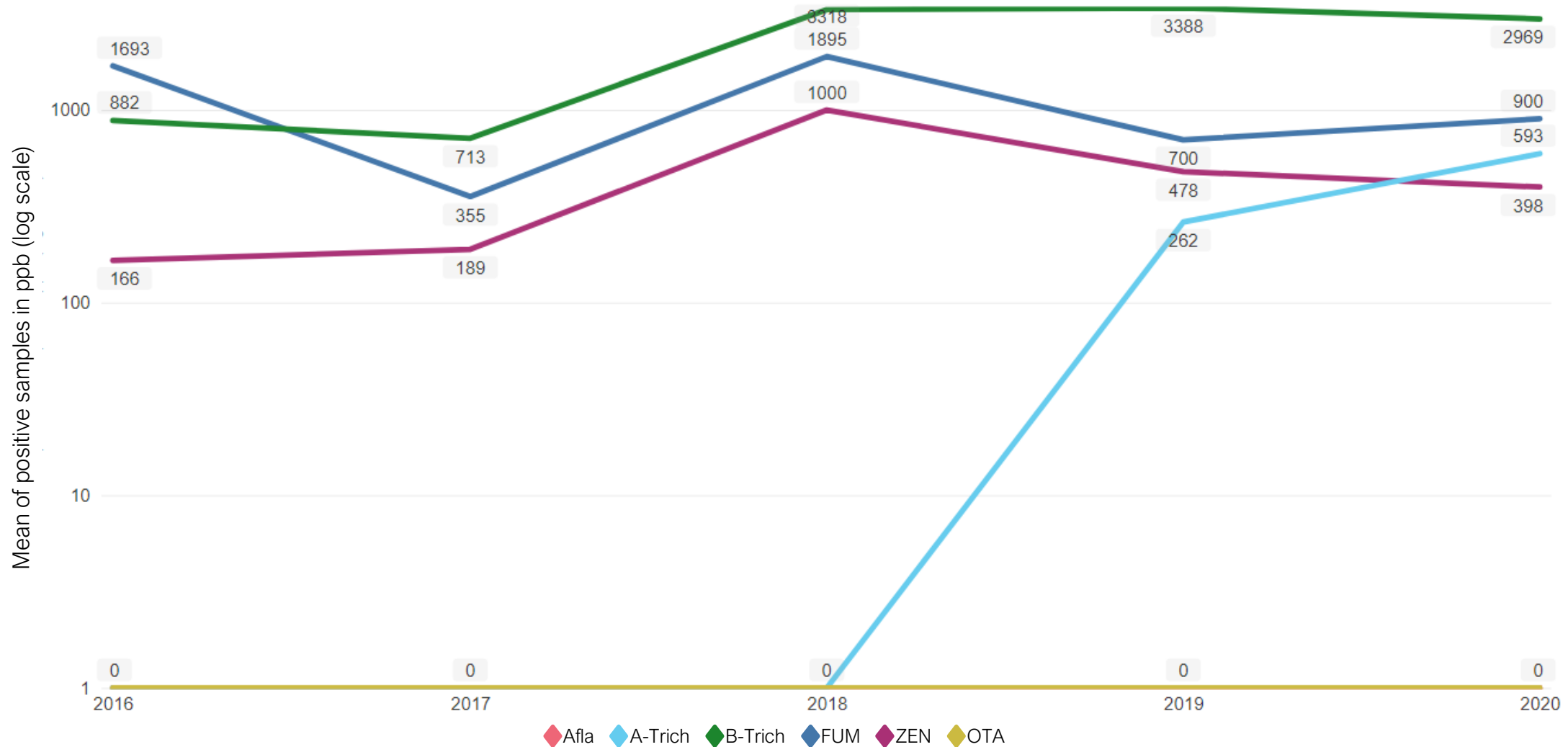


2020 US Corn Silage (dry matter basis)

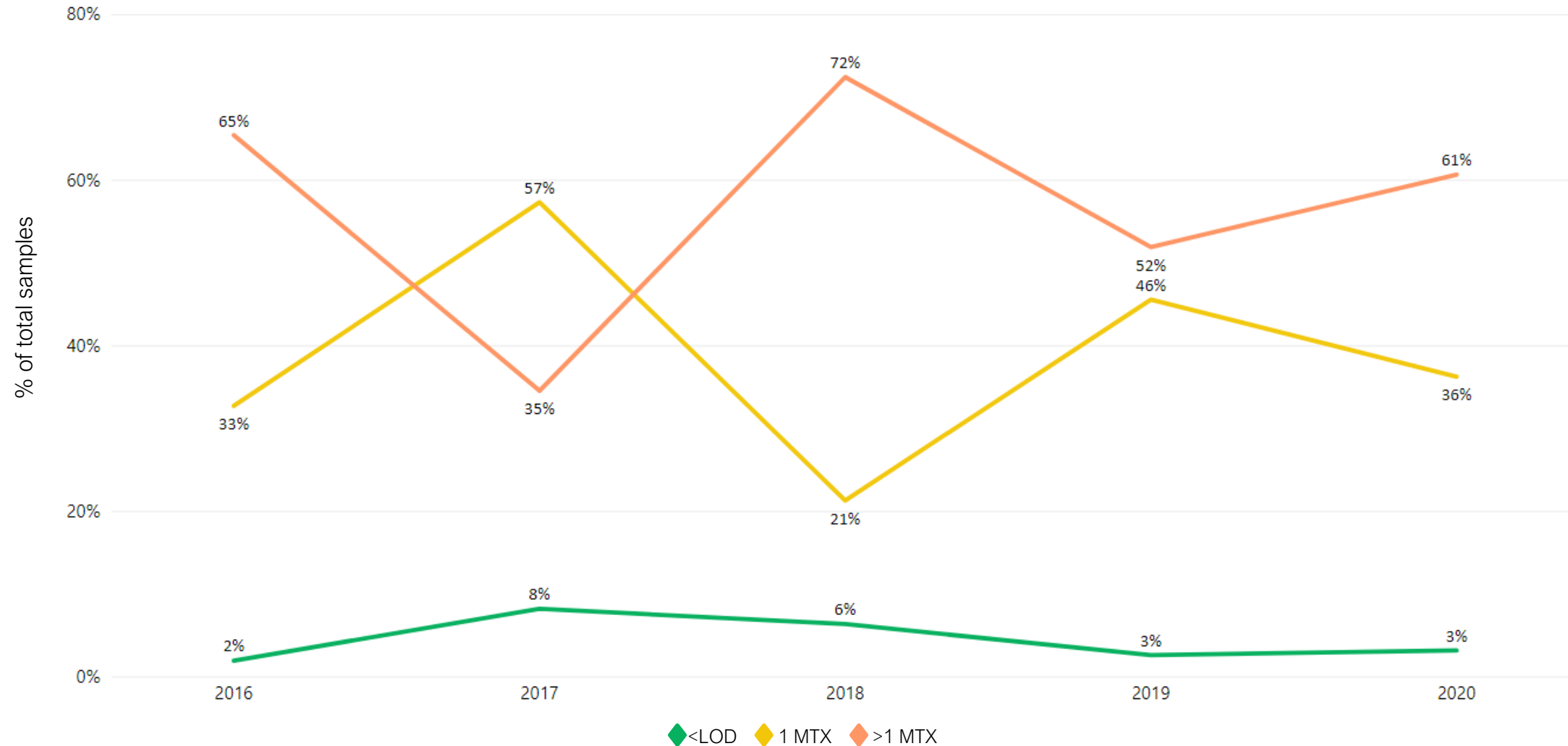
MTX Occurrence Trend in US Corn Silage



Mean of Positives Trend in US Corn Silage



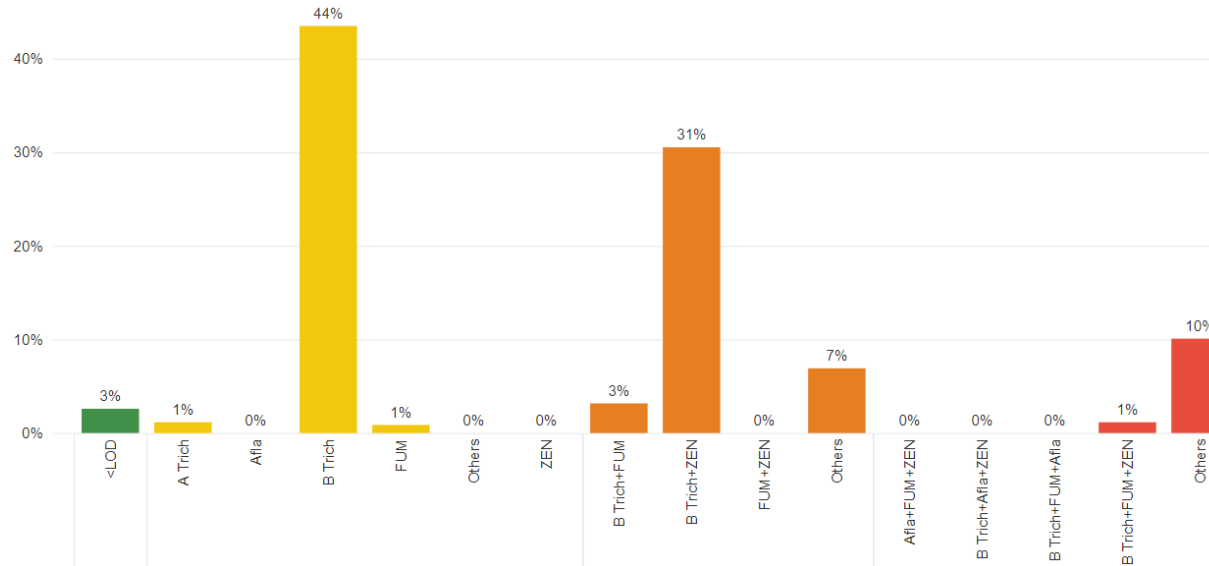
MTX Co-occurrence Trend in US Corn Silage



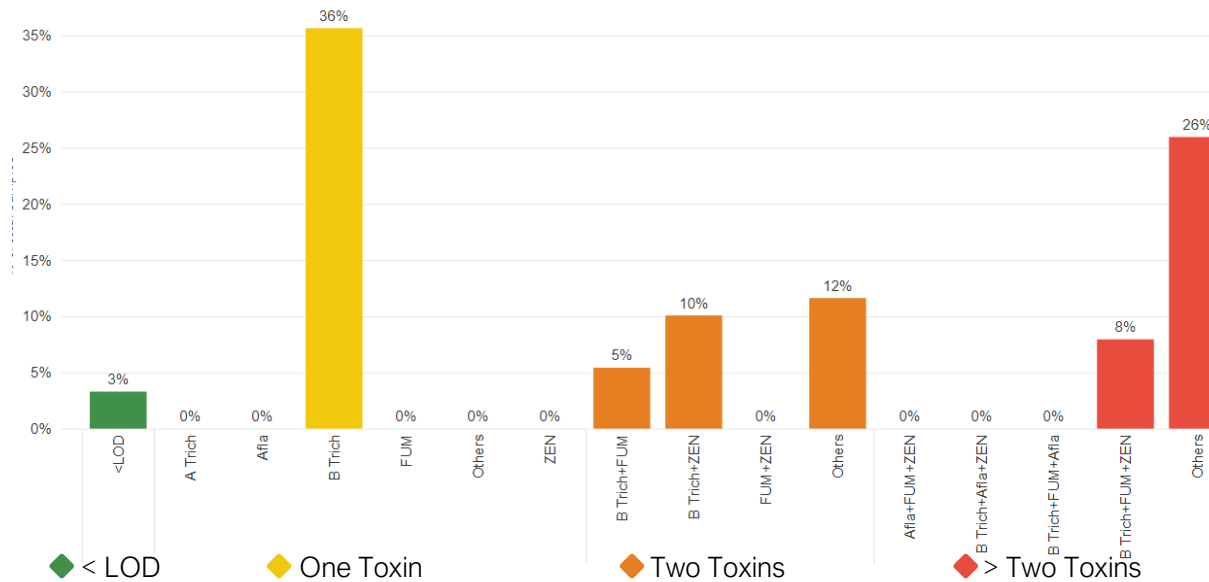
Mycotoxin Co-occurrence 2019 vs. 2020 in US Corn Silage



2019



2020

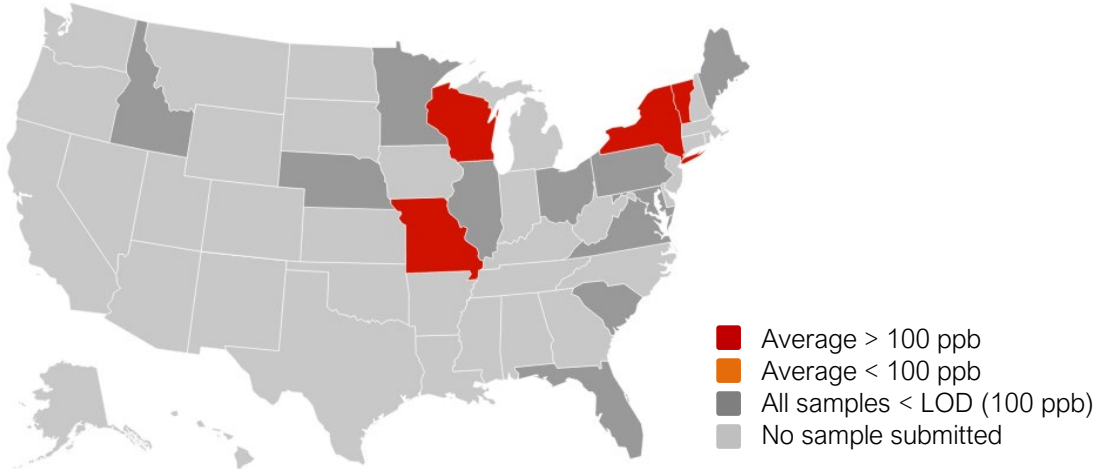


◆ < LOD
 ◆ One Toxin
 ◆ Two Toxins
 ◆ > Two Toxins

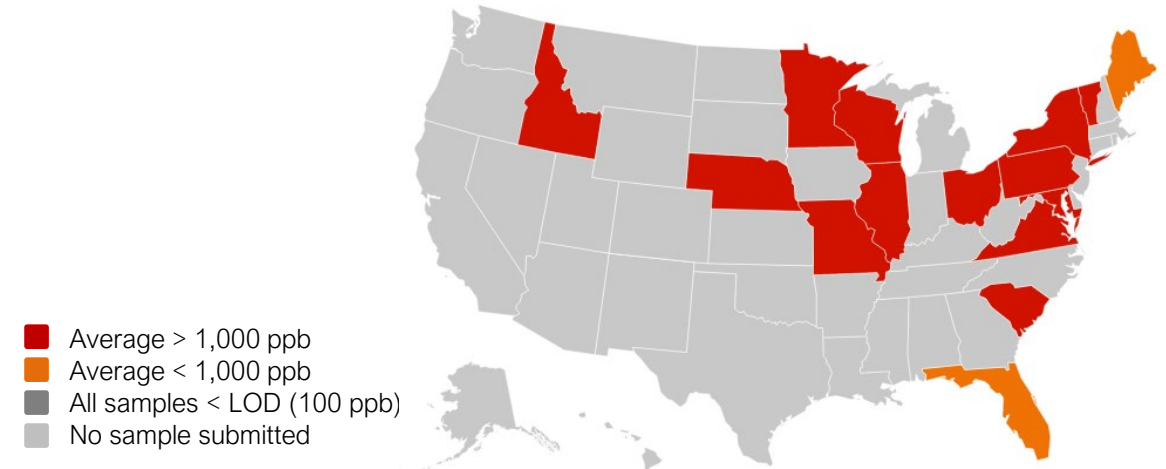
2020 Corn Silage Risk by State



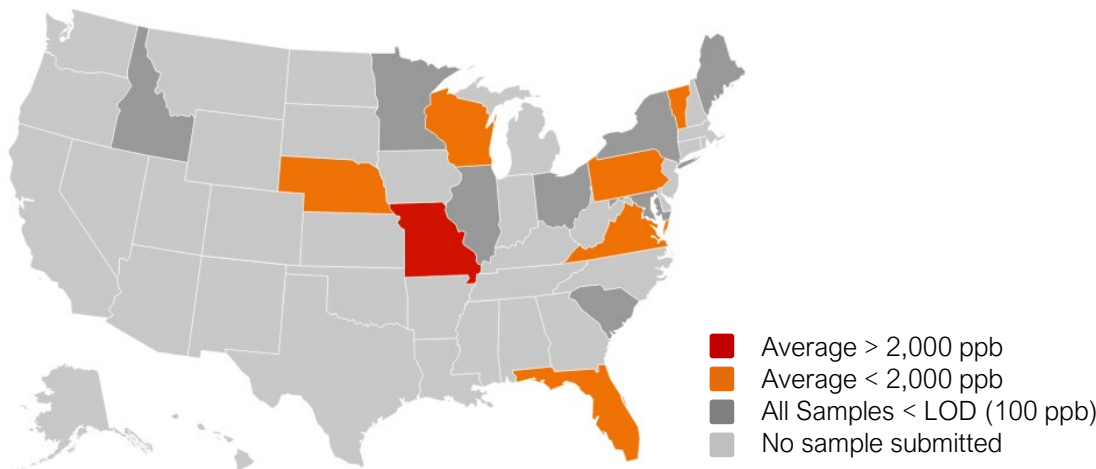
A-Trich



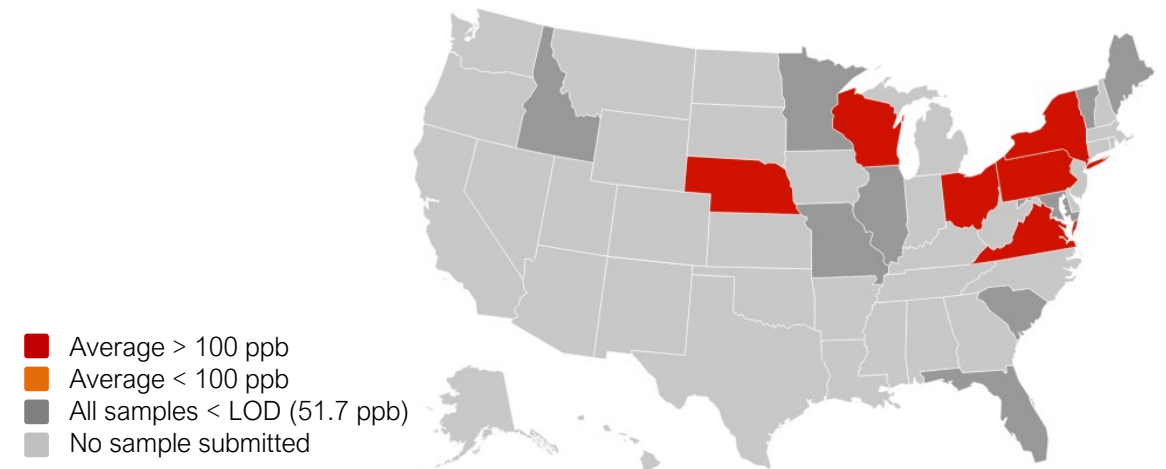
B-Trich



FUM

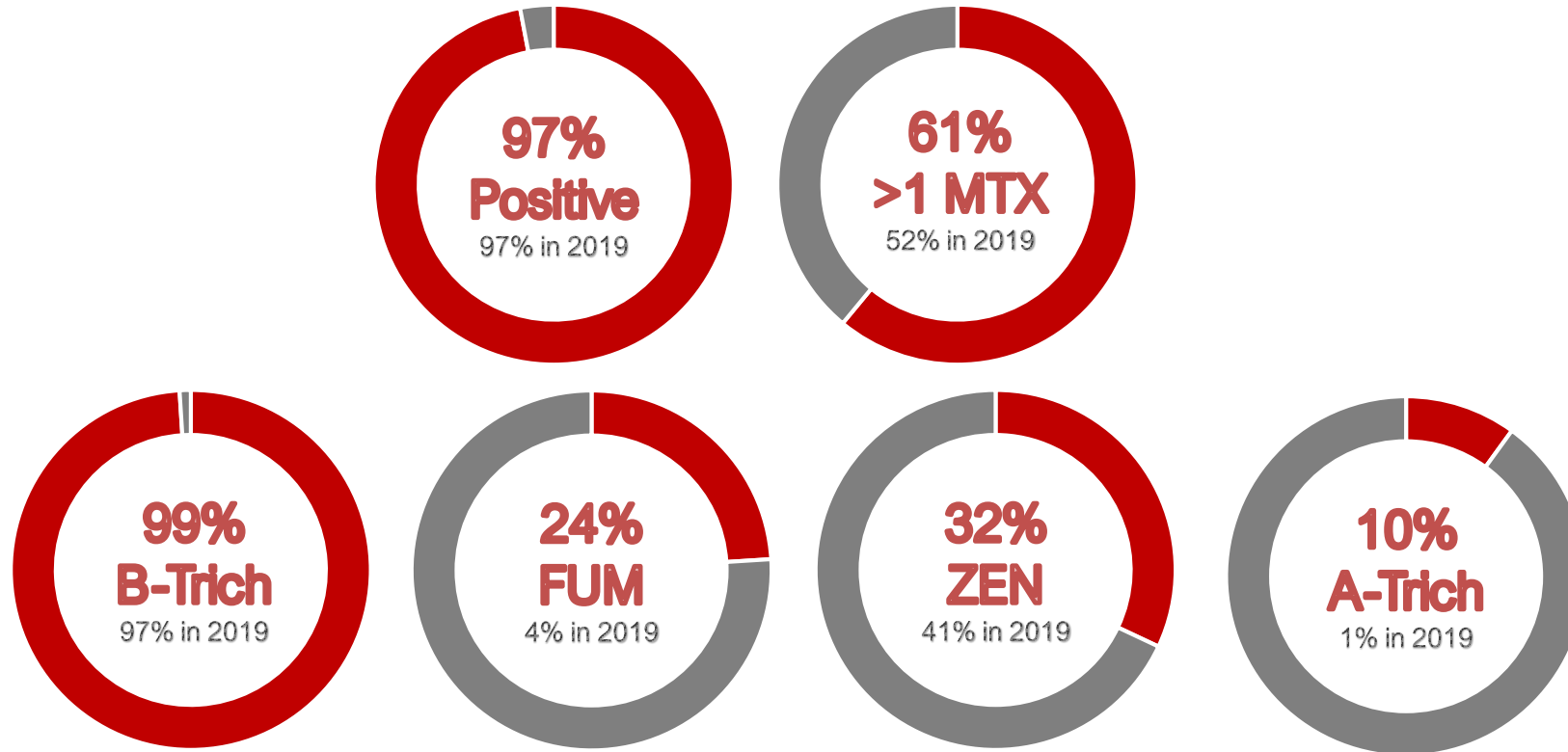


ZEN



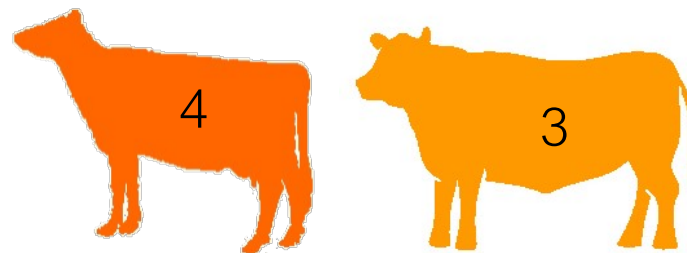
B-Trichothecenes include Deoxynivalenol, Nivalenol, Fusarenon X, Acetyl-Deoxynivalenol
 A-Trichothecenes include T-2 Toxin, HT-2 Toxin, Diacetoxyscirpenol, Neosolaniol

Mycotoxin Survey Summary - 2020 US Corn Silage



Forecasted risk for cattle production

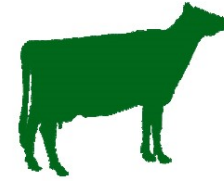
Severity of Mycotoxin Contamination



Questions?



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<https://www.biomin.net/us/services/mycotoxin-corn-survey/>