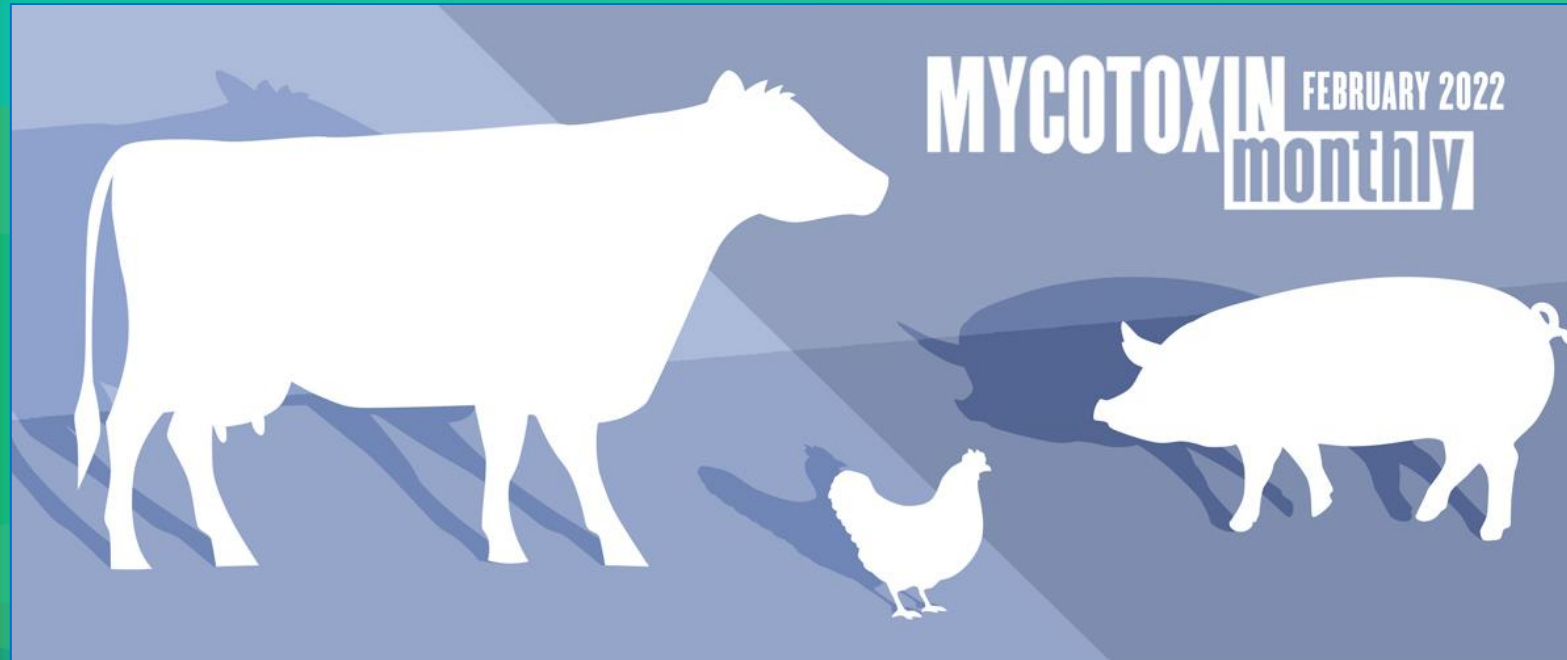


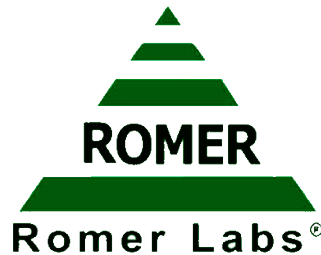
Mycotoxin Occurrence in 2021 US Corn Silage



Mycotoxins & Analysis



LC-MS/MS

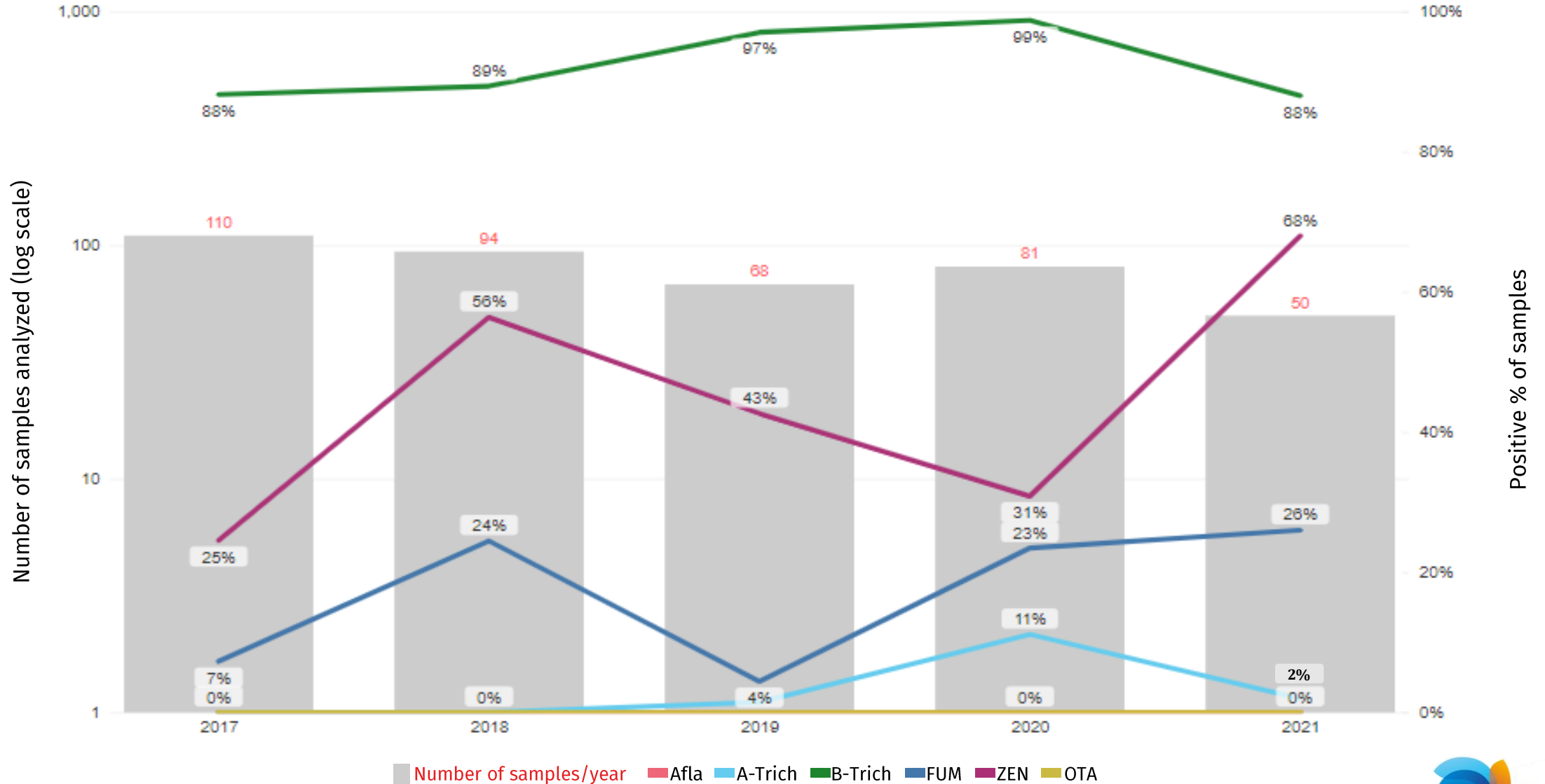


The survey results represent samples sent in for surveillance testing only and does not include any sample submitted following clinical signs.

Mycotoxin Group	Mycotoxins	Limit of Detection (ppb)
Aflatoxins (Afla)	Aflatoxin B1	1.3
	Aflatoxin B2	1.2
	Aflatoxin G1	1.1
	Aflatoxin G2	1.6
A-Trichothecenes (A-Trich)	T-2 Toxin	100.0
	HT-2 Toxin	100.0
	Neosolaniol	100.0
	Diacetoxyscirpenol (DAS)	100.0
B-Trichothecenes (B-Trich)	Deoxynivalenol (DON/Vomitoxin)	100.0
	Acetyldeoxynivalenol (AcDON)	100.0
	Nivalenol (NIV)	100.0
	Fusarenon X (FusX)	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

2021 US Corn Silage (dry matter basis)

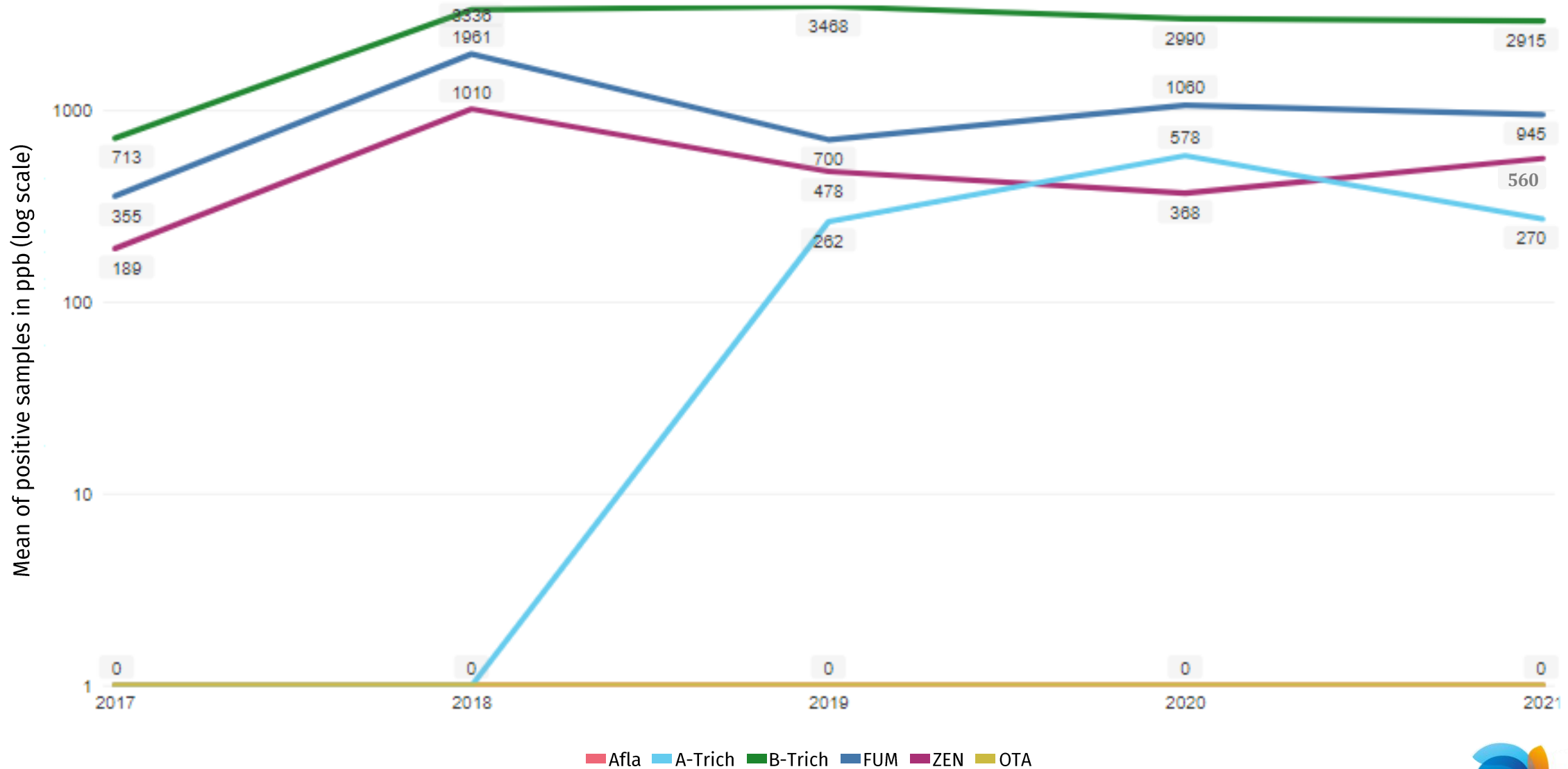
Occurrence Trend in 2021 US Corn Silage



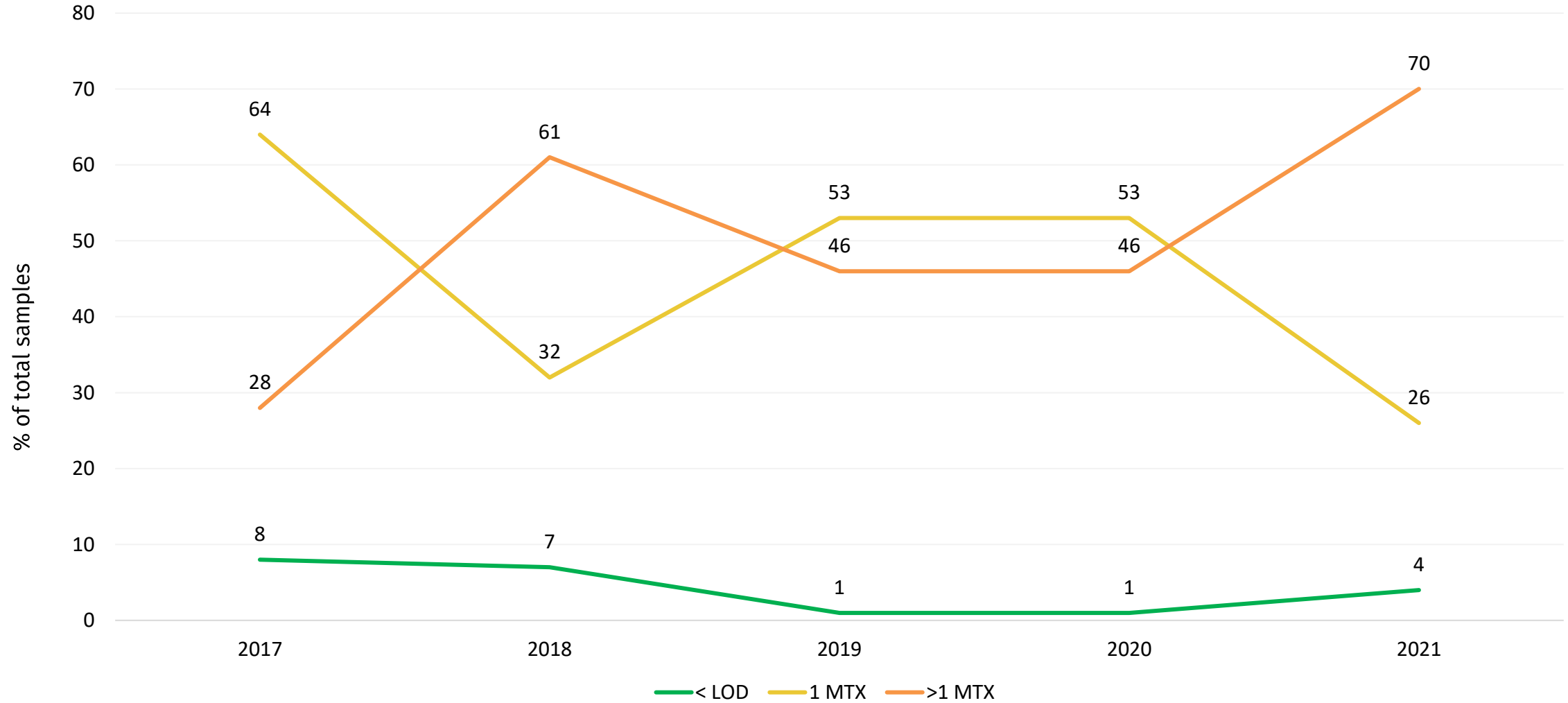
Based on the samples analyzed.



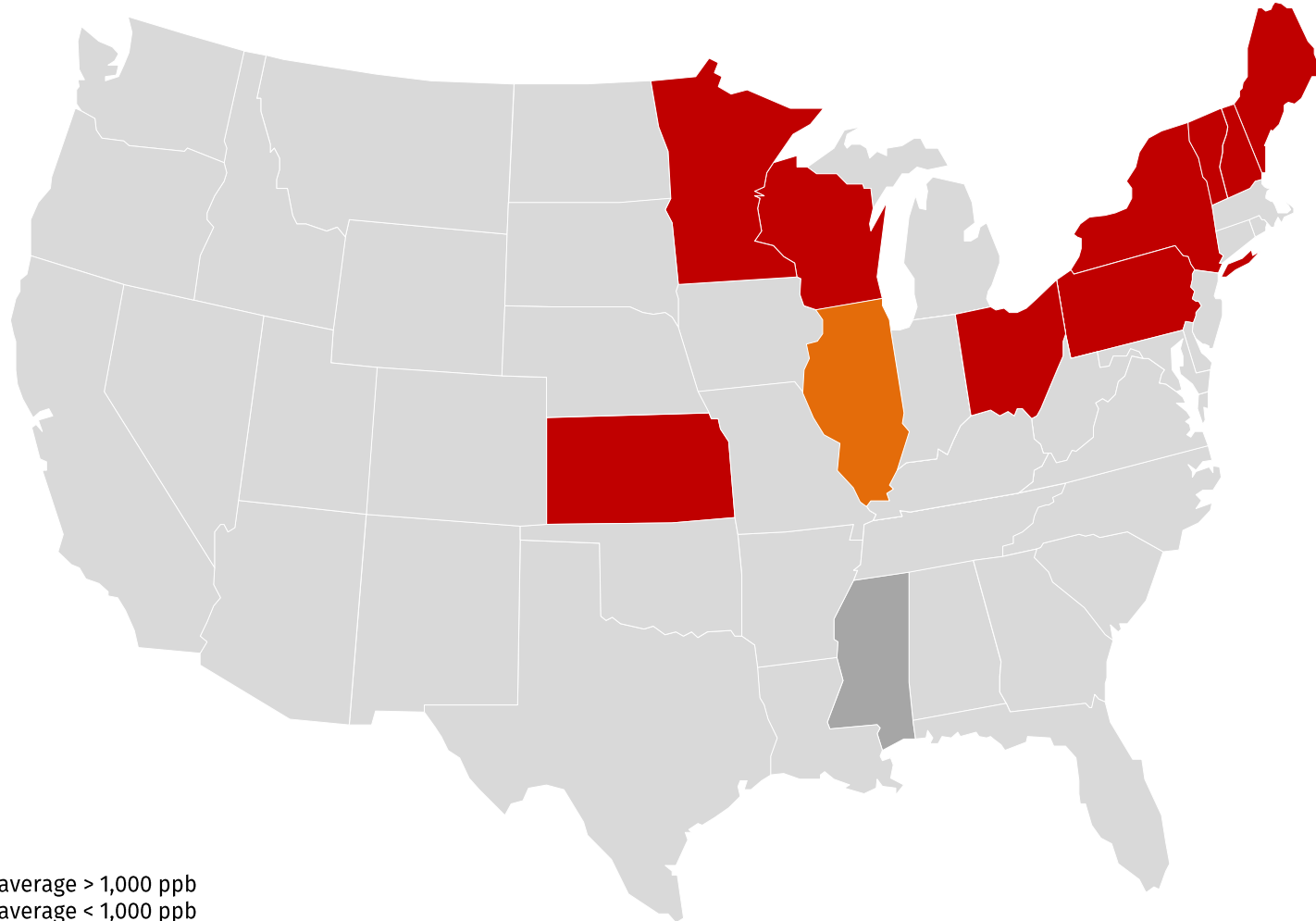
Mean of Positives Trend in 2021 US Corn Silage



Co-occurrence Trend in 2021 US Corn Silage



2021 Corn Silage Risk by State – B-Trich

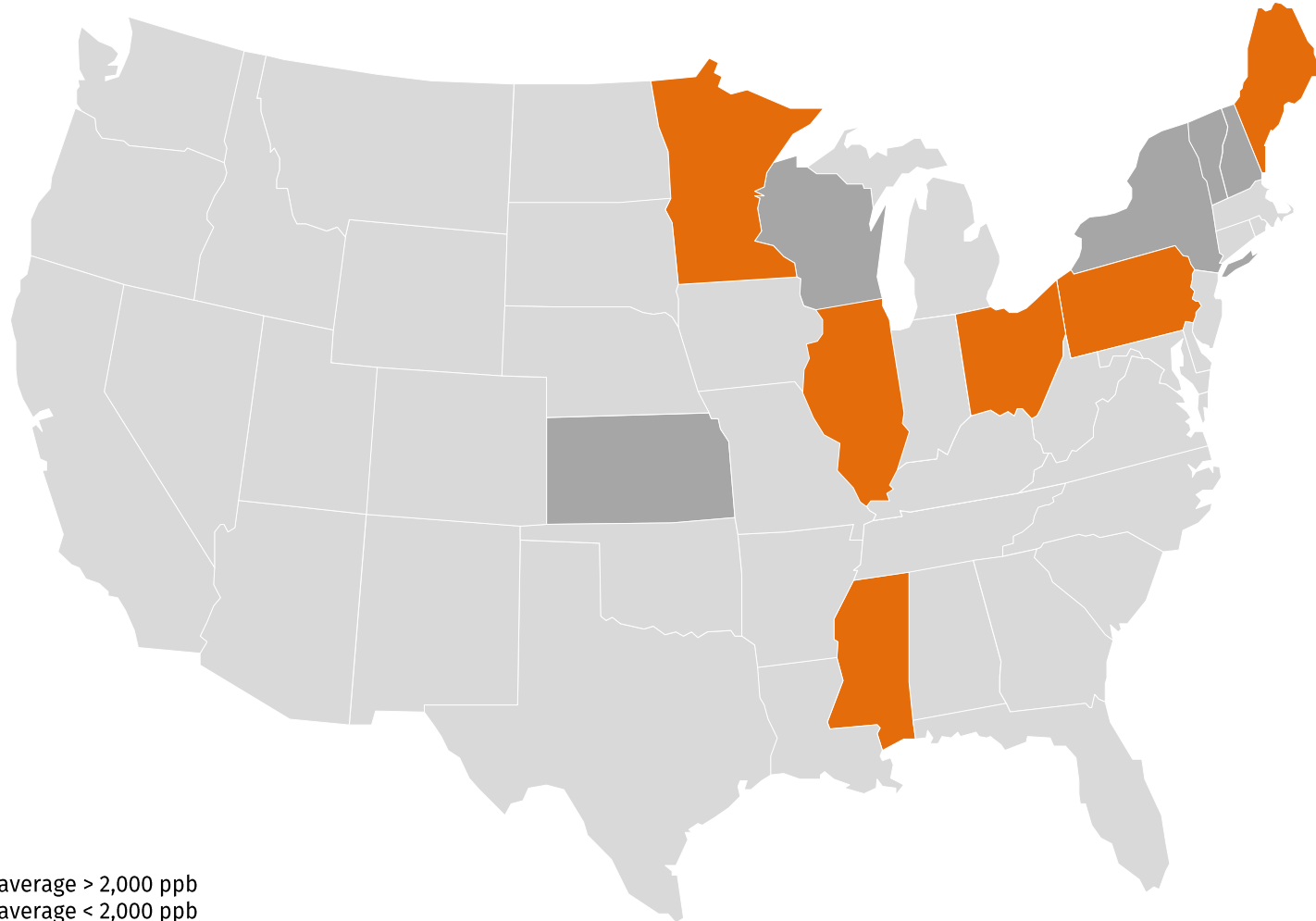


- State with average > 1,000 ppb
- State with average < 1,000 ppb
- State with samples < LOD (100 ppb)
- No sample submitted

State	Number of Samples	% Positive Samples	Avg of Positive Samples
PA	10	100%	5186
WI	3	100%	3954
ME	2	100%	2900
NH	2	100%	2354
VT	2	100%	2221
NY	11	100%	2167
OH	12	83%	1960
KS	1	100%	1885
MN	2	100%	1668
IL	1	100%	928
MS	4	0%	0



2021 Corn Silage Risk by State – FUM

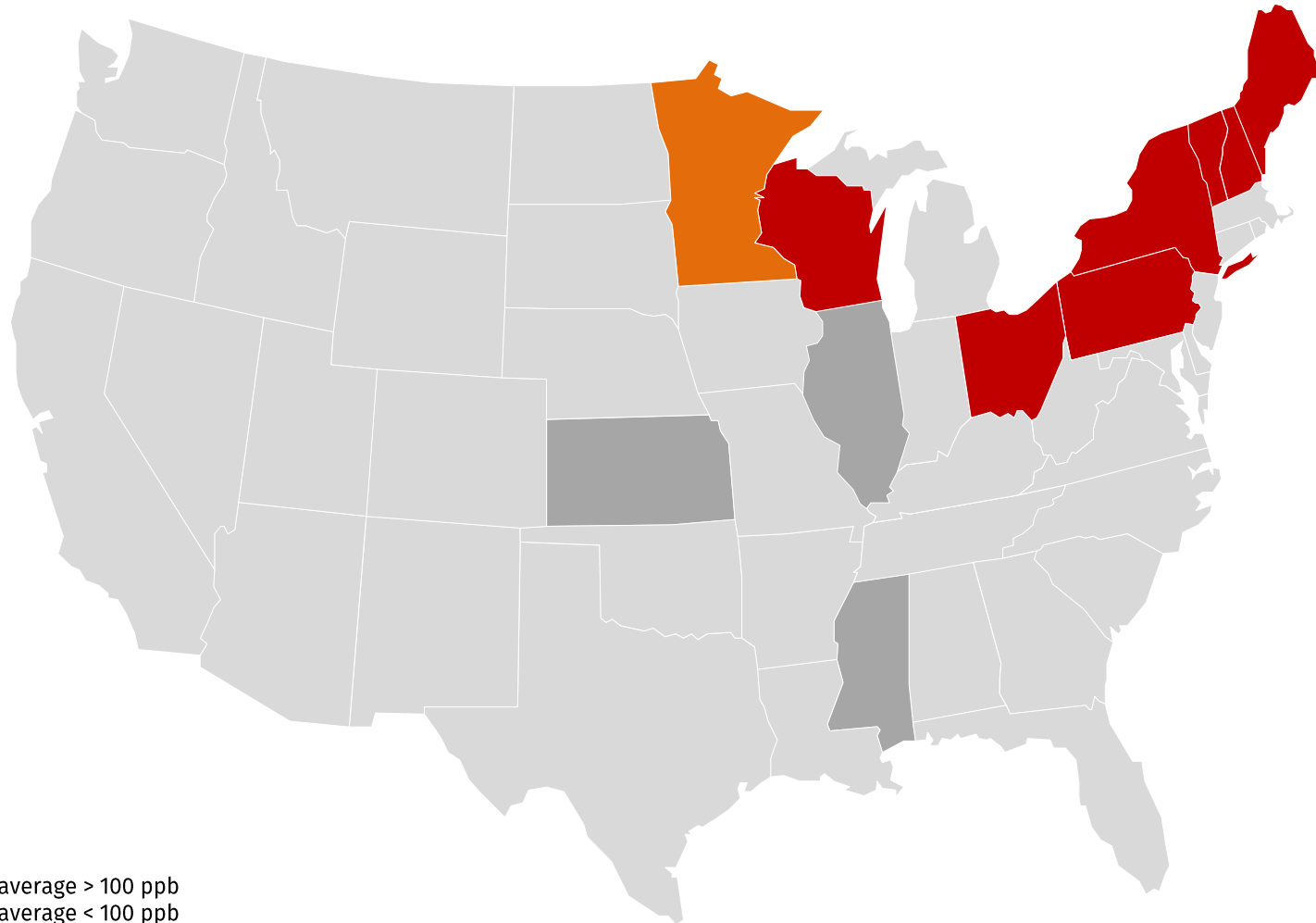


- State with average > 2,000 ppb
- State with average < 2,000 ppb
- State with samples < LOD (100 ppb)
- No sample submitted

State	Number of Samples	% Positive Samples	Avg of Positive Samples
MS	4	100%	1434
PA	10	50%	942
OH	12	8%	780
IL	1	100%	602
MN	2	50%	244
ME	2	50%	218
KS	1	0%	0
NH	2	0%	0
NY	11	0%	0
VT	2	0%	0
WI	3	0%	0



2021 Corn Silage Risk by State – ZEN



- State with average > 100 ppb
- State with average < 100 ppb
- State with samples < LOD (51.7 ppb)
- No sample submitted

State	Number of Samples	% Positive Samples	Avg of Positive Samples
OH	12	75%	810
NY	11	82%	655
NH	2	100%	465
PA	10	80%	422
VT	2	100%	376
ME	2	100%	265
WI	3	33%	194
MN	2	50%	57
IL	1	0%	0
KS	1	0%	0
MS	4	0%	0



Mycotoxin Survey Summary – 2021 US Corn Silage



96% positive vs.
99% in 2020



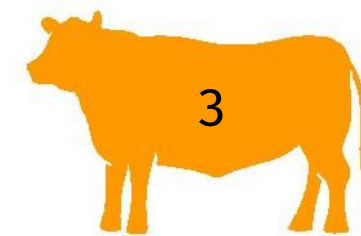
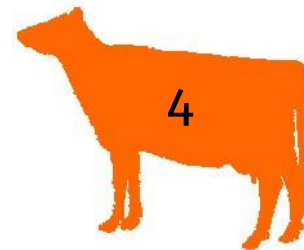
70% >1 MTX vs.
46% in 2020

B-Trich: 88% vs. 99%

FUM: 26% vs. 23%

ZEN: 68% vs. 31%

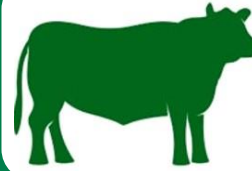
Forecasted potential risk for livestock production*:



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