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
Fumonisins (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

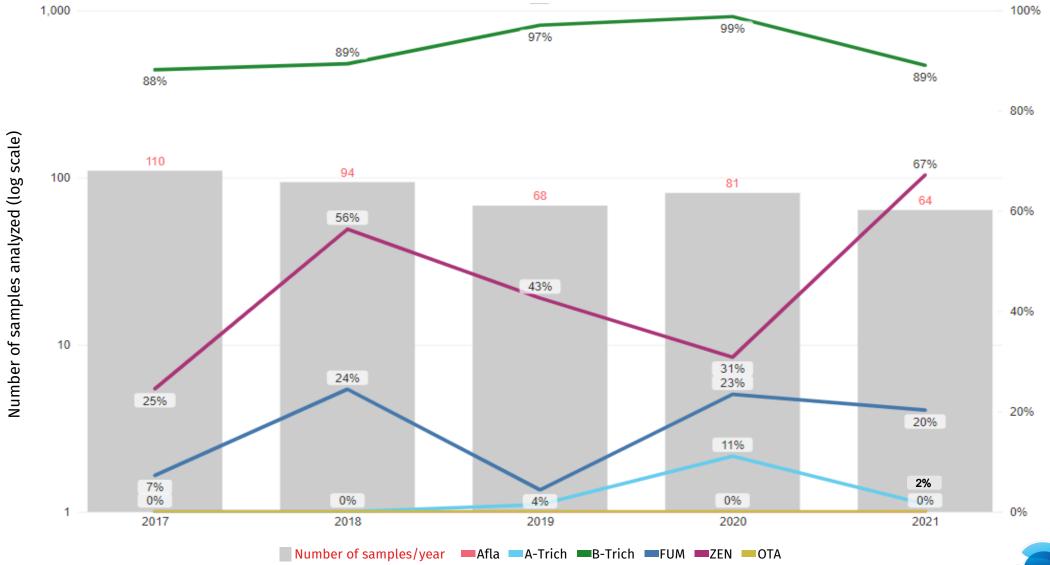


2021 US Corn Silage (dry matter basis)



Occurrence Trend in 2021 US Corn Silage



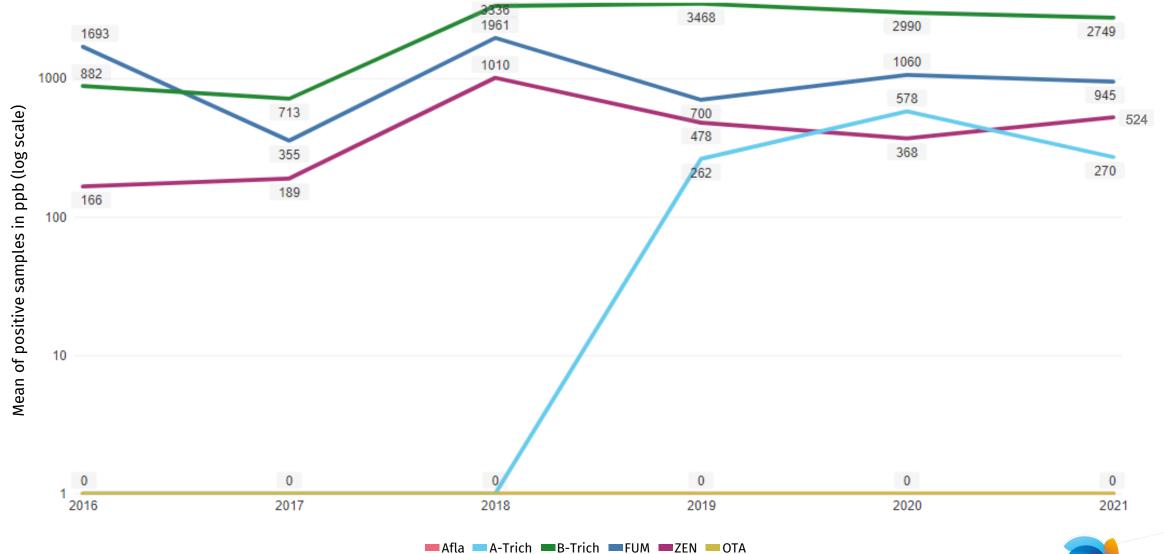




Positive % of samples



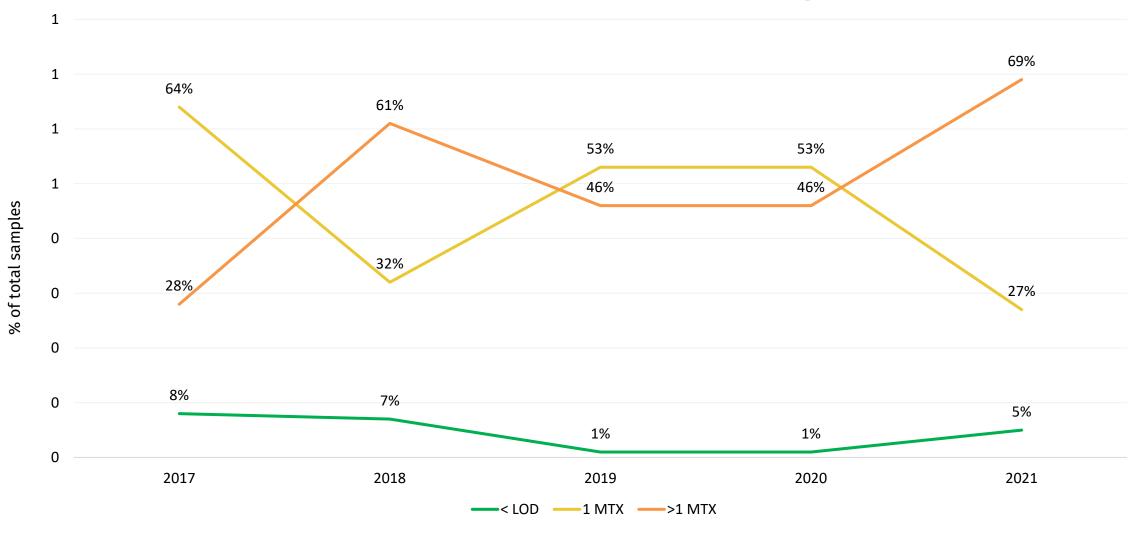








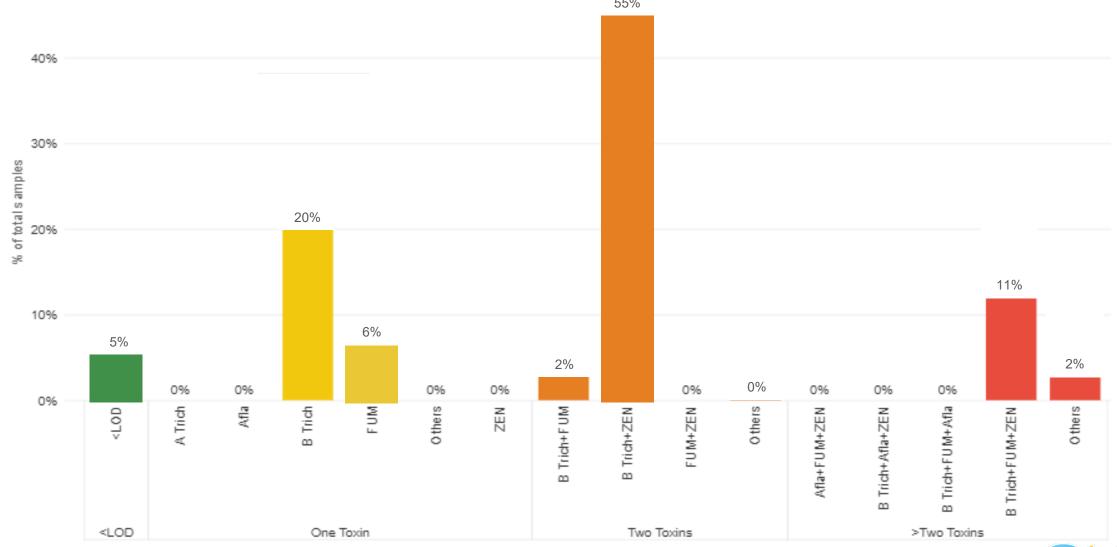






Co-occurrence Profile in 2021 US Corn Silage

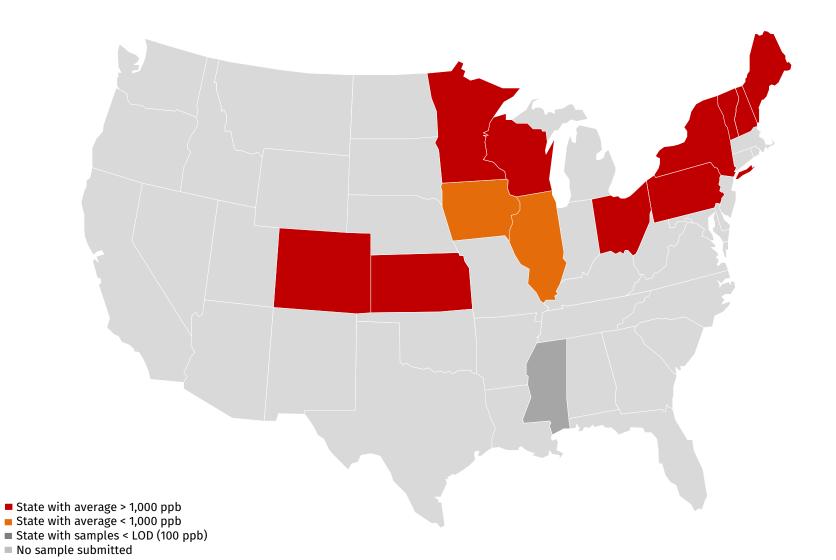






2021 Corn Silage Risk by State – B-Trich



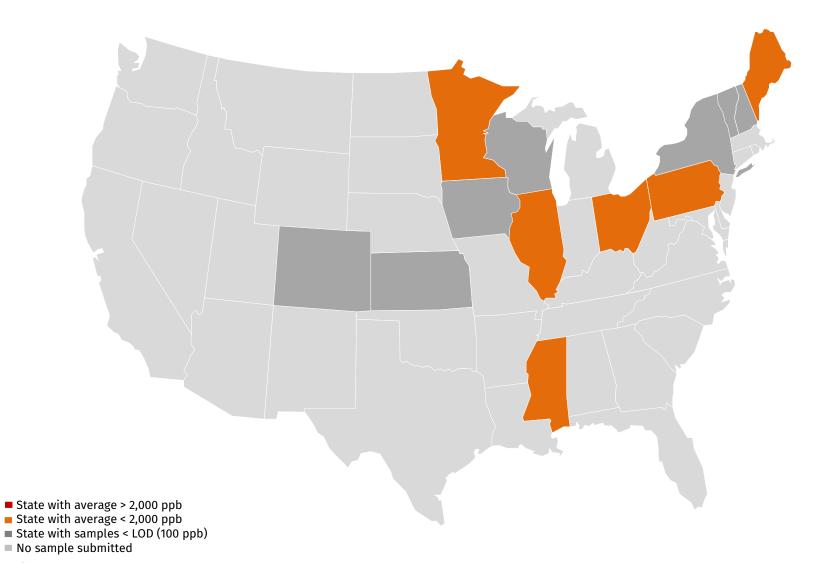


State	Number of Samples	% Positive Samples	Avg of Positive Samples
PA	13	100%	4646
WI	5	100%	4403
ME	2	100%	2900
NH	2	100%	23 <mark>54</mark>
NY	15	93%	199 <mark>8</mark>
ОН	12	83%	196 <mark>0</mark>
VT	3	100%	194 <mark>2</mark>
KS	1	100%	188 <mark>5</mark>
MN	2	100%	1668
СО	2	100%	1206
IL .	1	100%	928
IA	2	100%	900
MS	4	0%	0



2021 Corn Silage Risk by State – FUM



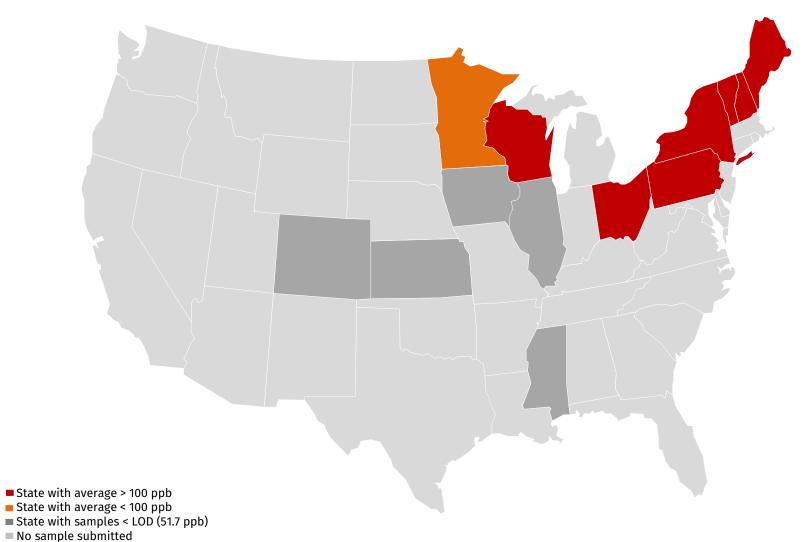


State	Number of Samples	% Positive Samples	Avg of Positive Samples
MS	4	100%	1434
PA	13	38%	942
ОН	12	8%	7 <mark>80</mark>
L	1	100%	60 <mark>2</mark>
MN	2	50%	244
ME	2	50%	218
СО	2	0%	0
IA	2	0%	0
KS	1	0%	0
NH	2	0%	0
NY	15	0%	0
VT	3	0%	0
WI	5	0%	0



2021 Corn Silage Risk by State – ZEN





State	Number of Samples	% Positive Samples	Avg of Positive Samples
ОН	12	75%	810
NY	15	80%	634
NH	2	100%	4 <mark>65</mark>
PA	13	85%	39 <mark>1</mark>
VT	3	100%	322
WI	5	60%	277
ME	2	100%	265
MN	2	50%	57
СО	2	0%	0
IA	2	0%	0
L	1	0%	0
KS	1	0%	0
MS	4	0%	0



Mycotoxin Survey Summary – 2021 US Corn Silage





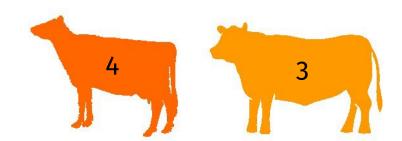
B-Trich: 89% vs. 99%

FUM: 20% vs. 23%

ZEN: 67% vs. 31%

Forecasted potential risk for livestock production*:







Contact Us









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