# 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.

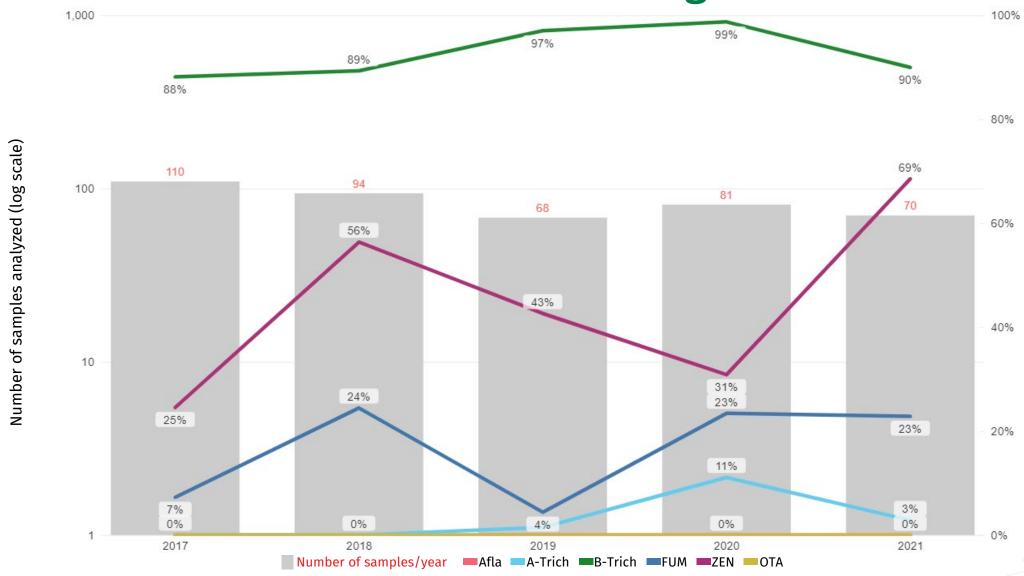
Mycotoxin Group	Mycotoxins	Limit of Detection (ppb)
Aflatoxins (Afla)	Aflatoxin B1	1.3
	Aflatoxin B2	1.2
	Aflatoxin G1	1.1
	Aflatoxin G2	1.6
A-Trichothecenes (A-Trich)	T-2 Toxin	100.0
	HT-2 Toxin	100.0
	Neosolaniol	100.0
	Diacetoxyscirpenol (DAS)	100.0
B-Trichothecenes (B-Trich)	Deoxynivalenol (DON/Vomitoxin)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



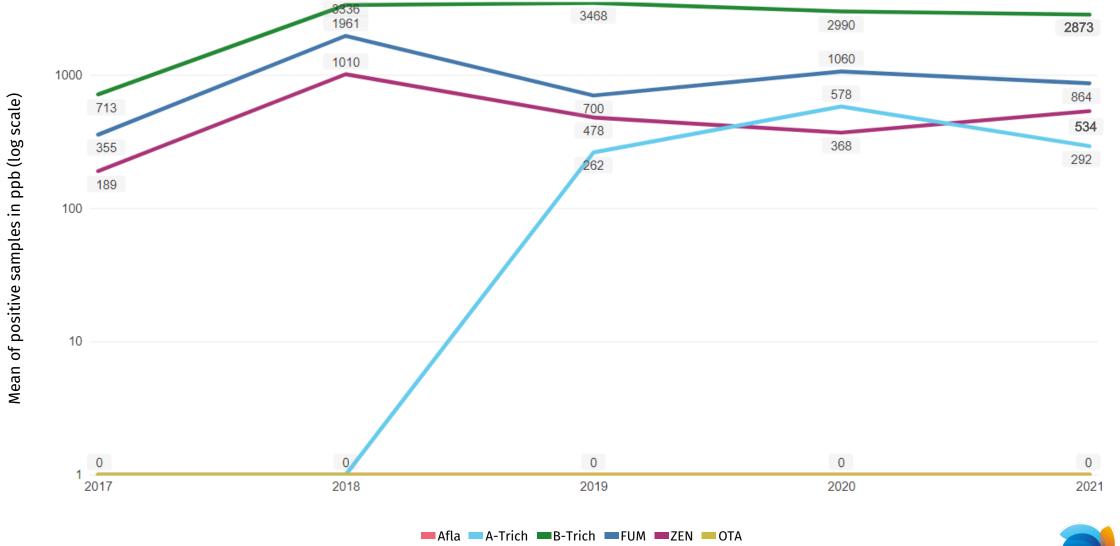
### Occurrence Trend in 2021 US Corn Silage





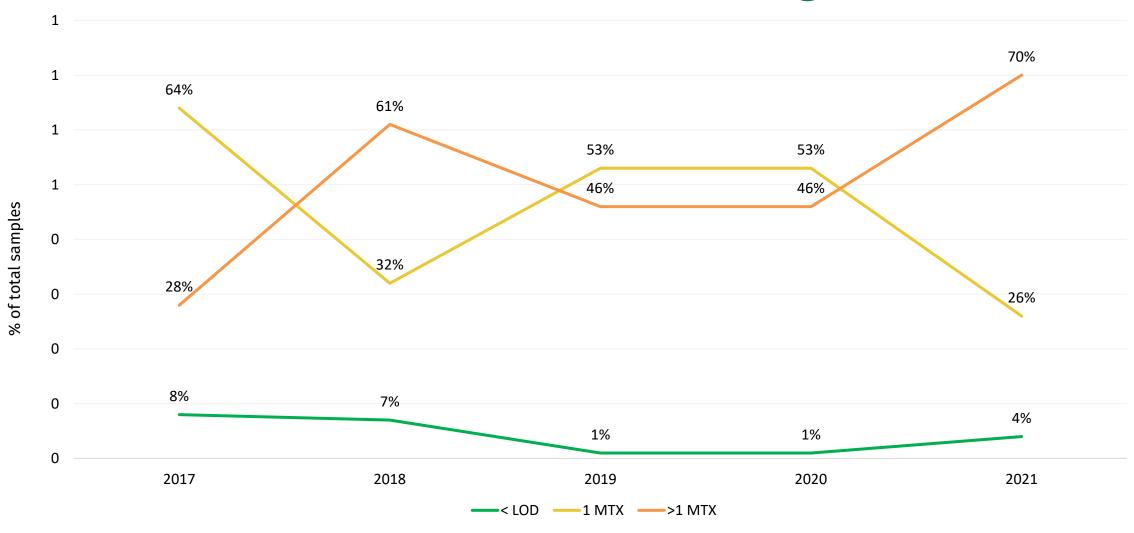








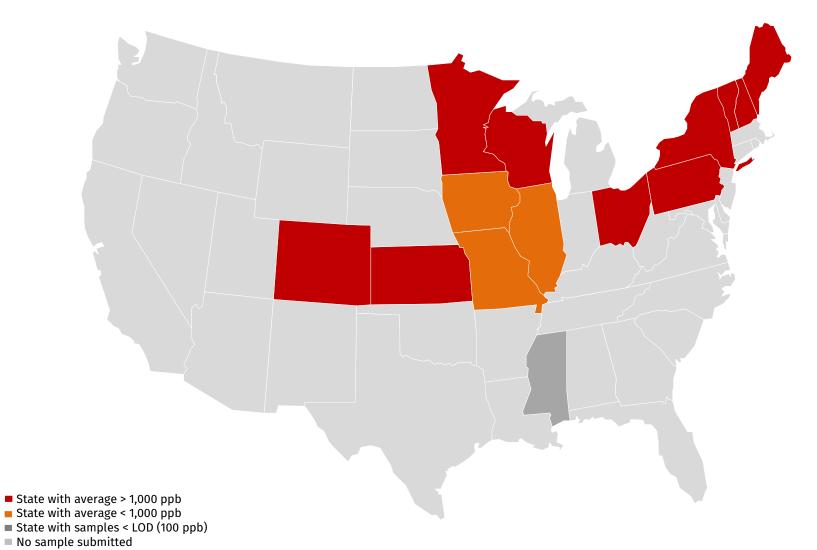






# 2021 Corn Silage Risk by State – B-Trich



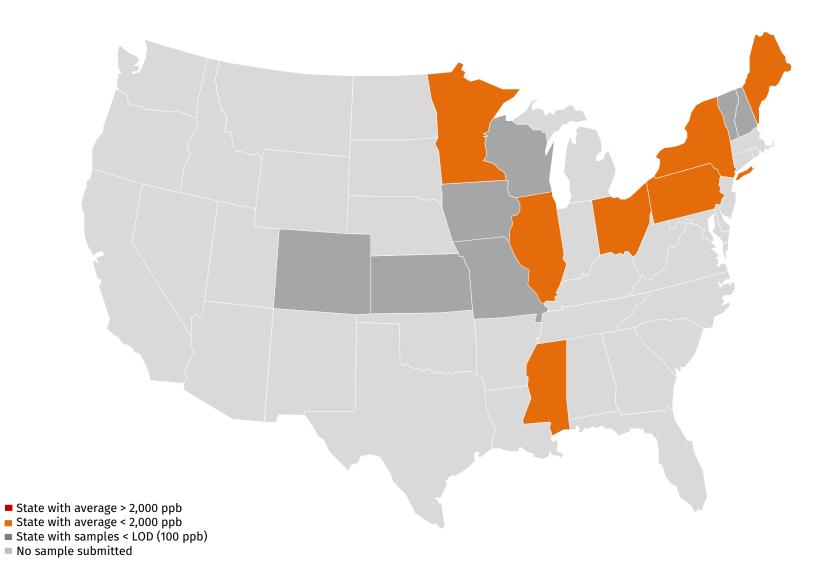


State	Number of Samples	% Positive Samples	Avg of Positive Samples
PA	15	100%	4705
WI	6	100%	4272
ME	2	100%	2 <mark>900</mark>
NH	2	100%	23 <mark>54</mark>
NY	16	94%	22 <mark>18</mark>
ОН	13	85%	199 <mark>5</mark>
VT	3	100%	194 <mark>2</mark>
KS	1	100%	188 <mark>5</mark>
MN	2	100%	1668
СО	2	100%	1206
L	1	100%	928
IA	2	100%	900
МО	1	100%	297
MS	4	0%	0



## 2021 Corn Silage Risk by State – FUM



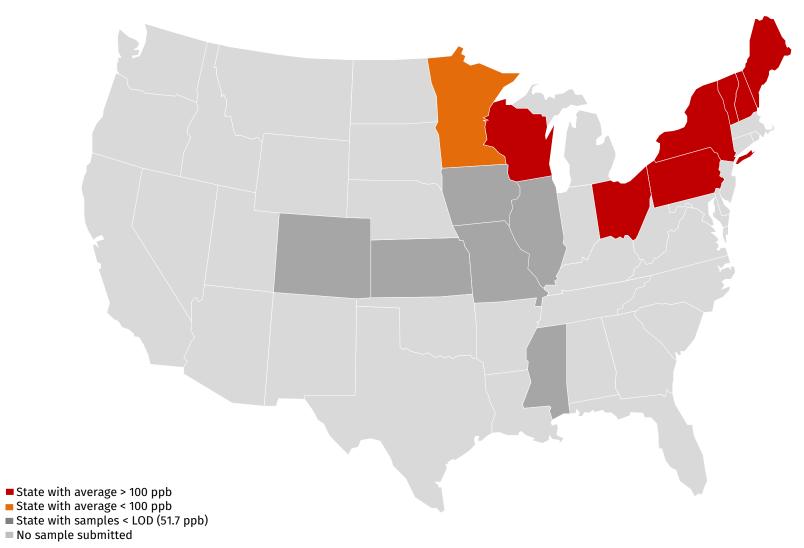


State	Number of Samples	% Positive Samples	Avg of Positive Samples
MS	4	100%	1434
PA	15	47%	8 <mark>28</mark>
ОН	13	8%	7 <mark>80</mark>
IL	1	100%	602
NY	16	6%	449
MN	2	50%	244
ME	2	50%	218
СО	2	0%	0
IA	2	0%	0
KS	1	0%	0
MO	1	0%	0
NH	2	0%	0
VT	3	0%	0
WI	6	0%	0



## 2021 Corn Silage Risk by State – ZEN





State	Number of Samples	% Positive Samples	Avg of Positive Samples
ОН	13	77%	753
NY	16	81%	659
NH	2	100%	465
PA	15	87%	464
VT	3	100%	32 <mark>2</mark>
ME	2	100%	265
WI	6	67%	254
MN	2	50%	57
СО	2	0%	0
IA	2	0%	0
L	1	0%	0
KS	1	0%	0
MO	1	0%	0
MS	4	0%	0



### Mycotoxin Survey Summary – 2021 US Corn Silage





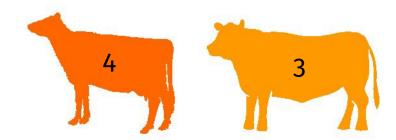
**B-Trich**: 90% vs. 99%

**FUM:** 23% vs. 23%

**ZEN**: 69% vs. 31%

### Forecasted potential risk for livestock production\*:







### **Contact Us**









dsm.com/mycotoxin-survey



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