







US Mycotoxin Survey



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
	Acetyl-deoxynivalenol (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

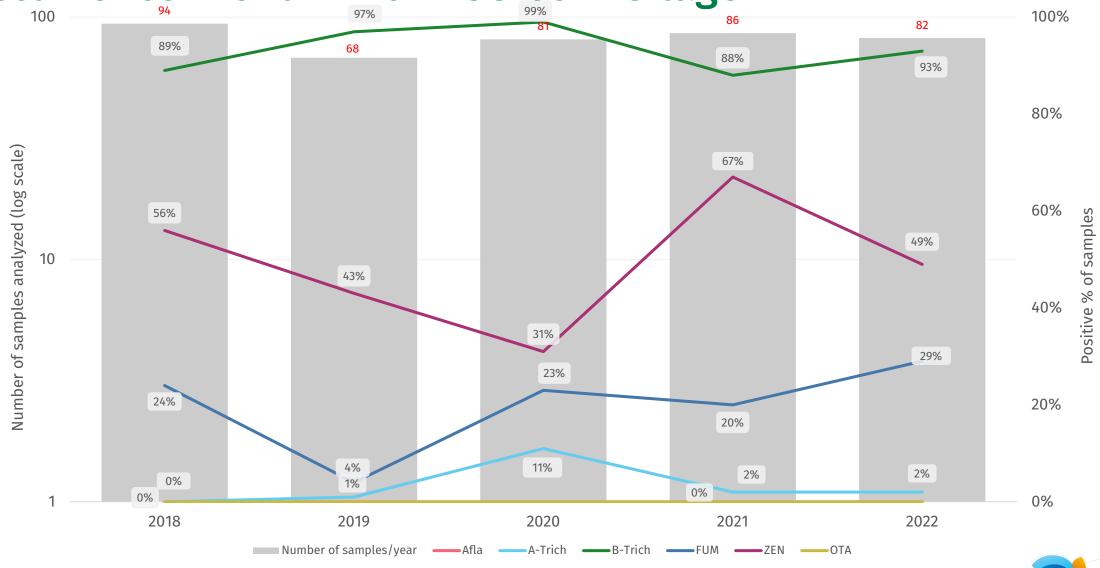


2022 US Corn Silage (dry matter basis)



Occurrence Trend in 2022 US Corn Silage

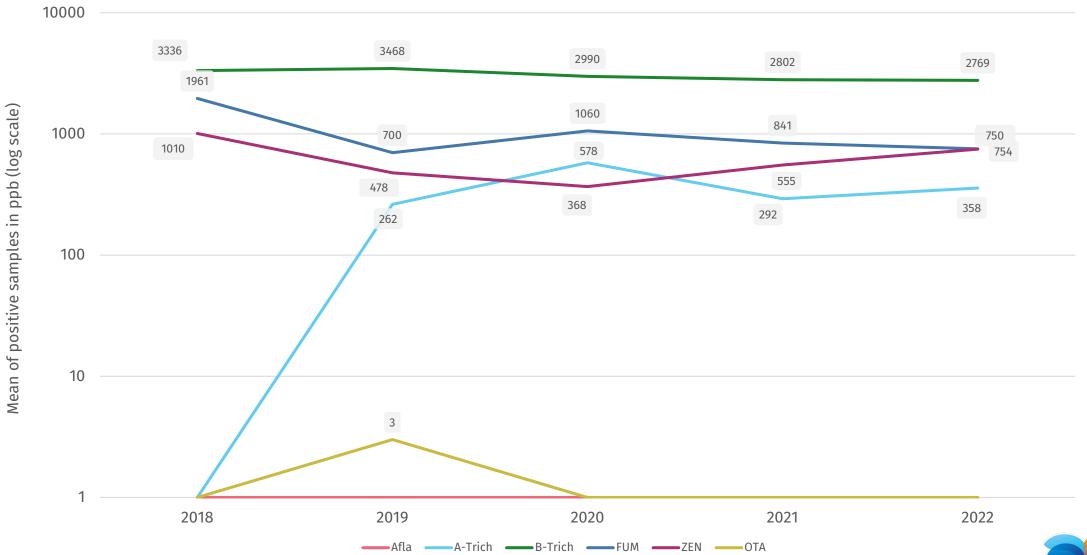






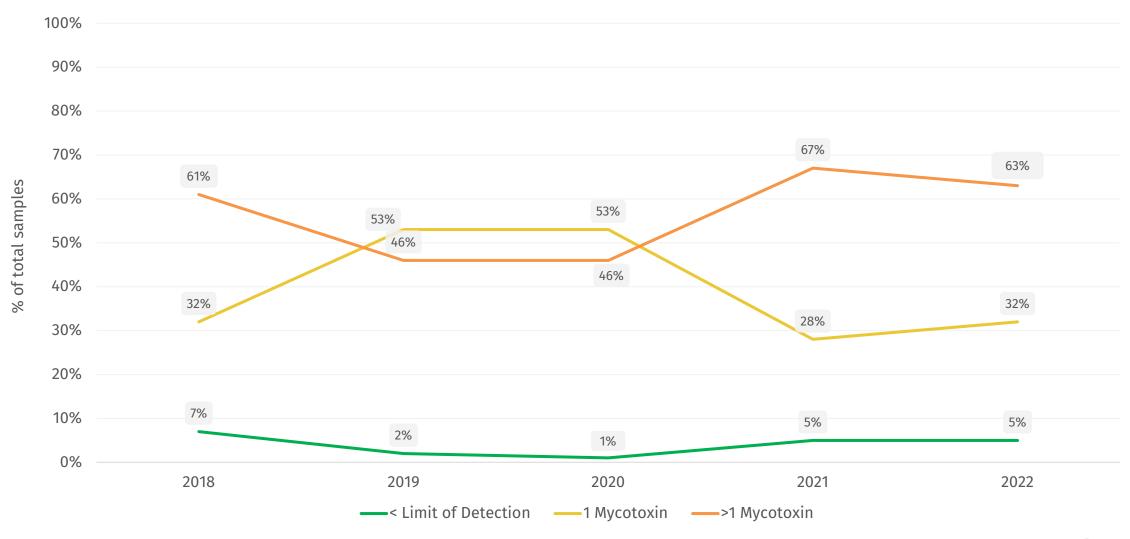








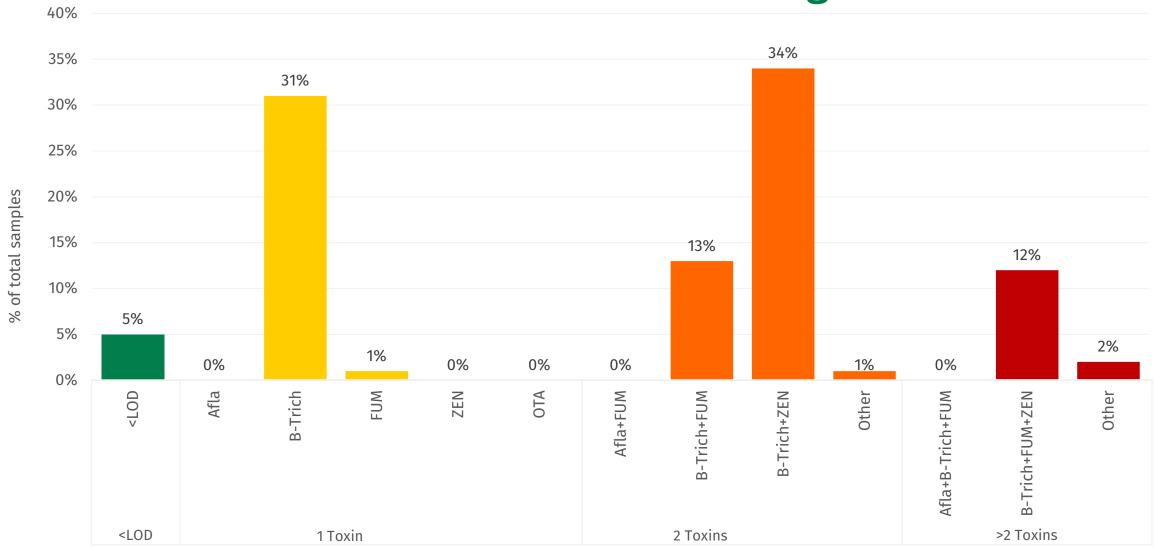






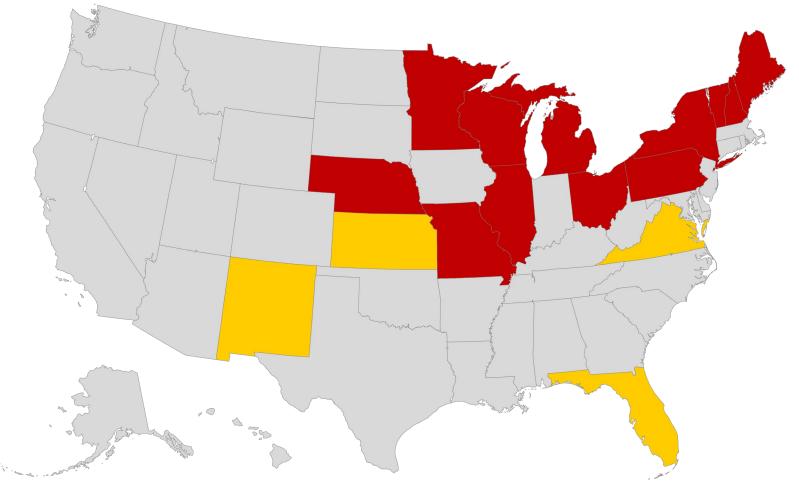








2022 Corn Silage Risk by State – B-Trich





State	Number of Samples	% Positive Samples	Avg of Positive Samples
PA	4	100	5591
MI	1	100	4874
NH	2	100	3761
ОН	13	100	3 <mark>376</mark>
MO	1	100	29 <mark>01</mark>
VT	6	83	28 <mark>92</mark>
NY	25	96	27 <mark>84</mark>
WI	4	100	27 <mark>75</mark>
ME	6	100	26 <mark>25</mark>
MN	1	100	2484
IL	5	80	219 <mark>4</mark>
NE	2	100	1243
KS	4	75	899
NM	1	100	841
FL	5	60	713
VA	2	100	673

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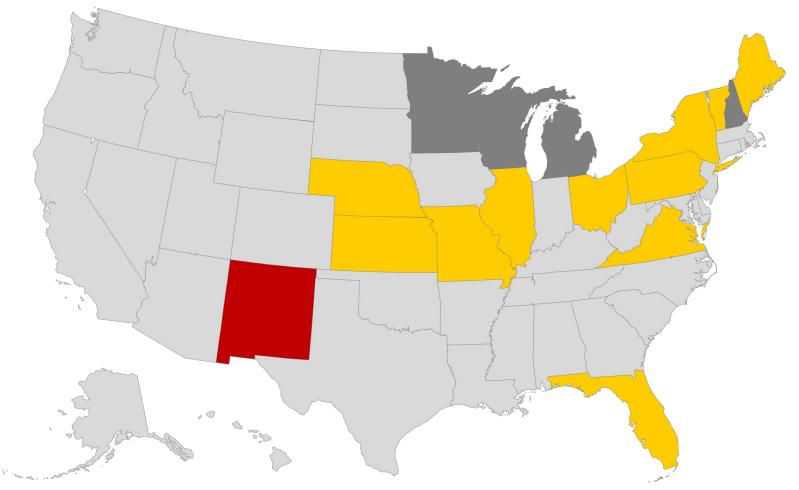
[■] State with average > 1000 ppb

State with average < 1000 ppb

[■] State with samples < LOD (100 ppb)

[■] No sample submitted

2022 Corn Silage Risk by State - FUM





State	Number of Samples	% Positive Samples	Avg of Positive Samples
NM	1	100	2744
FL	5	20	2077
IL	5	60	890
KS	4	75	863
PA	4	50	821
ME	6	33	567
NY	25	24	549
VA	2	100	477
VT	6	17	310
MO	1	100	256
ОН	13	8	233
NE	2	50	199
MI	1	0	0
MN	1	0	0
NH	2	0	0
WI	4	0	0

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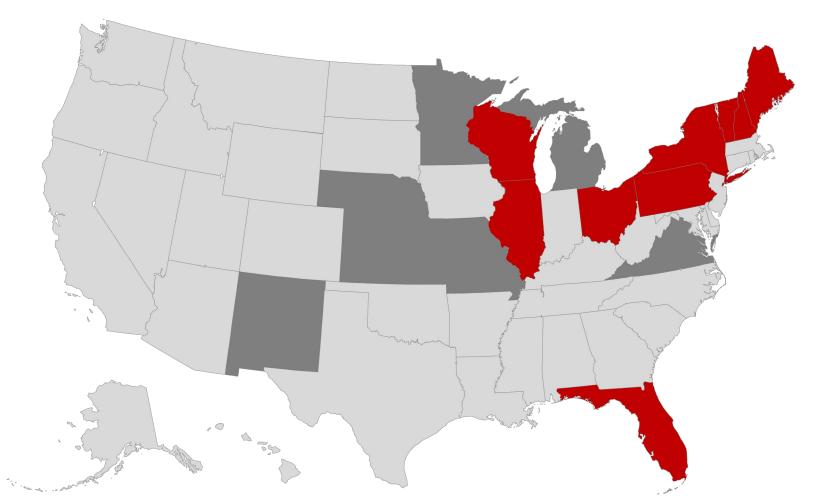
[■] State with average > 2000 ppb

State with average < 2000 ppb

[■] State with samples < LOD (100 ppb)

[■] No sample submitted

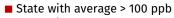
2022 Corn Silage Risk by State – ZEN





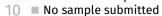
State	Number of Samples	% Positive Samples	Avg of Positive Samples
IL	5	60	3762
PA	4	100	135 <mark>9</mark>
FL	5	40	592
NH	2	50	501
ОН	13	31	415
VT	6	83	403
NY	25	72	391
WI	4	50	314
ME	6	17	270
KS	4	0	0
MI	1	0	0
MN	1	0	0
MO	1	0	0
NE	2	0	0
NM	1	0	0
VA	2	0	0

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State with average < 100 ppb

[■] State with samples < LOD (51.7 ppb)

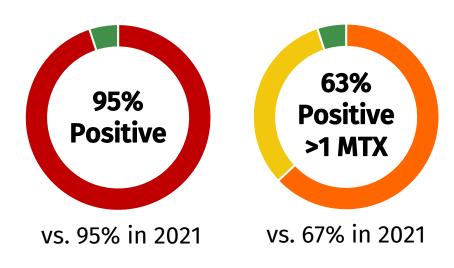




Mycotoxin Survey Summary – 2022 US Corn Silage



82 corn silage samples submitted from 16 states





- 93% positive / ↑ from 88%
- 2769 ppb / ↓ from 2802 ppb

vs. 2021

FUM

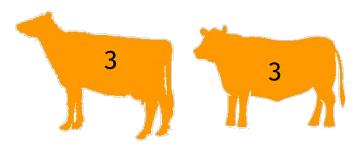
- 29% positive / ↑ from 20%
- 754 ppb / ↓ from 841 ppb

ZEN

- 49% positive / ↓ from 67%
- 750 ppb / ↑ from 555 ppb

Forecasted potential risk for livestock production*:







Questions?



Thank you!

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