

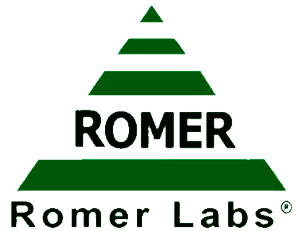
# Mycotoxin Occurrence in 2020 US Roughages Apr 2021 Update

April 9, 2021

# Mycotoxins & Analysis



LC-MS/MS



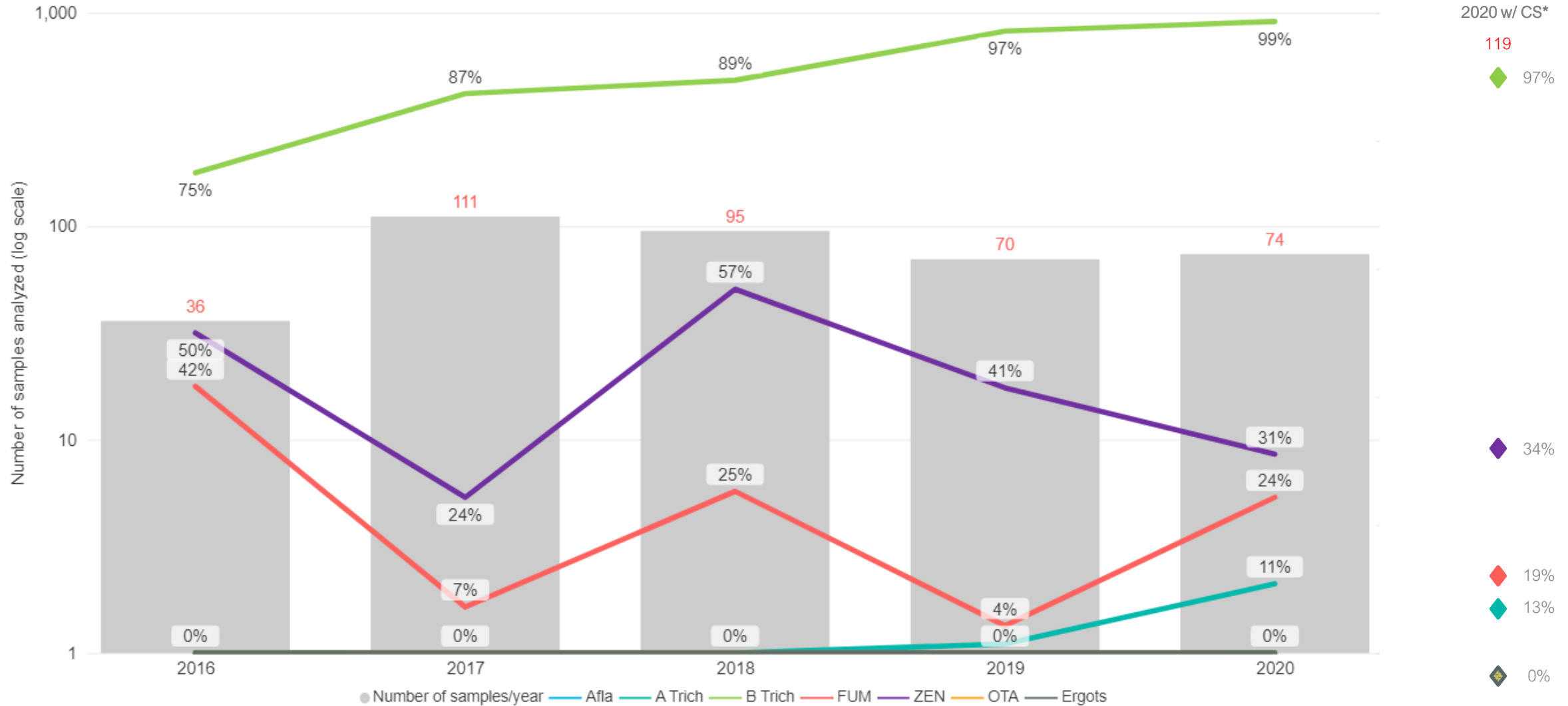
2 Labs

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



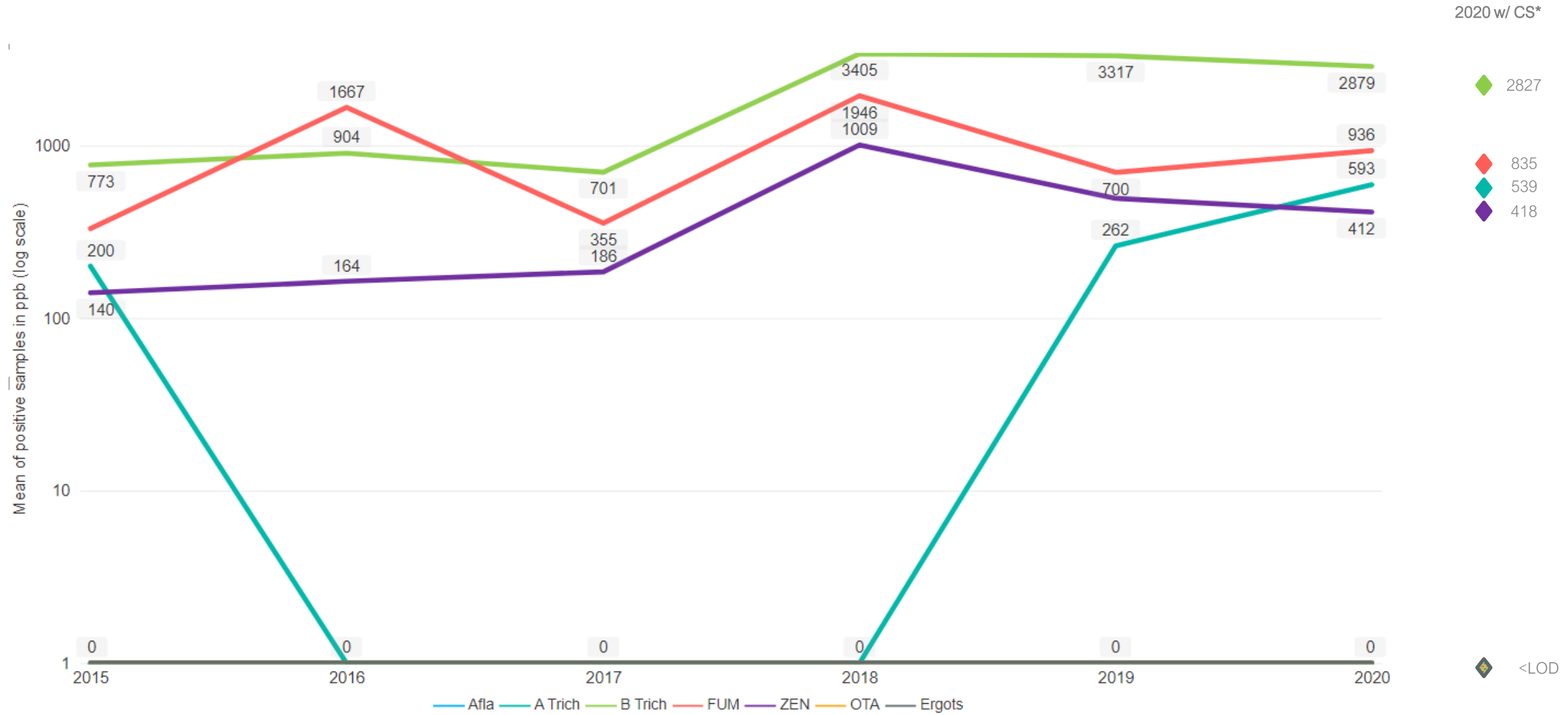
# 2020 US Corn Silage (dry matter basis)

# MTX Occurrence Trend in 2020 US Corn Silage



\*Includes samples submitted with clinical signs

# Mean of Positives Trend in 2020 US Corn Silage

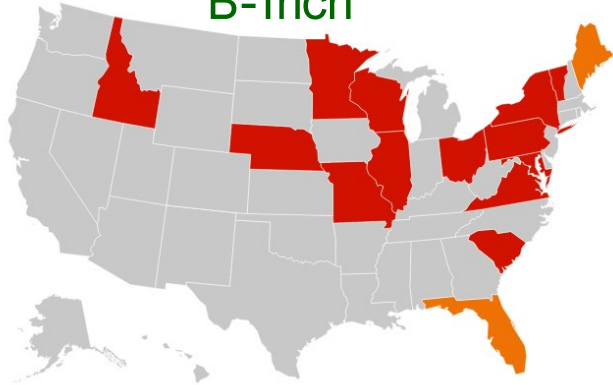


\*Includes samples submitted with clinical signs

# 2020 Corn Silage Risk by State

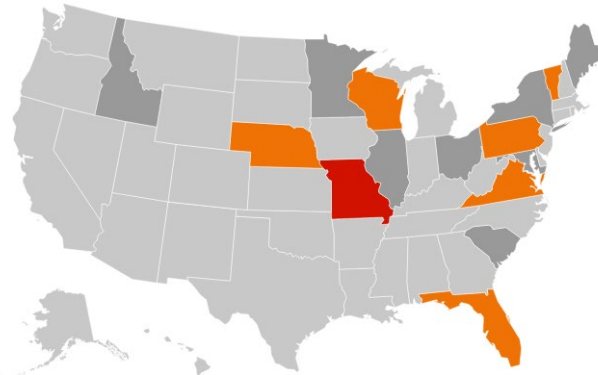


## B-Trich



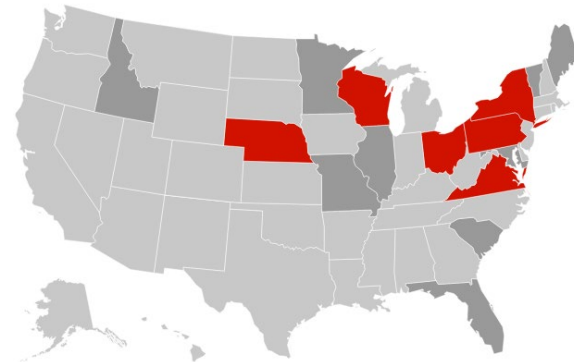
- State with average > 1,000 ppb
- State with average < 1,000 ppb
- State with samples < LOD (100 ppb)
- No sample submitted

## FUM



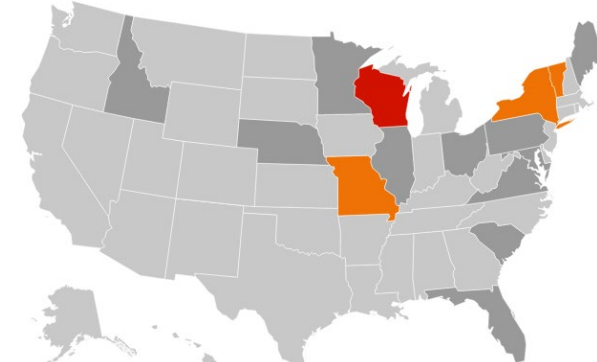
- State with average > 2,000 ppb
- State with average < 2,000 ppb
- State with samples < LOD (100 ppb)
- No sample submitted

## ZEN



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

## A-Trich



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

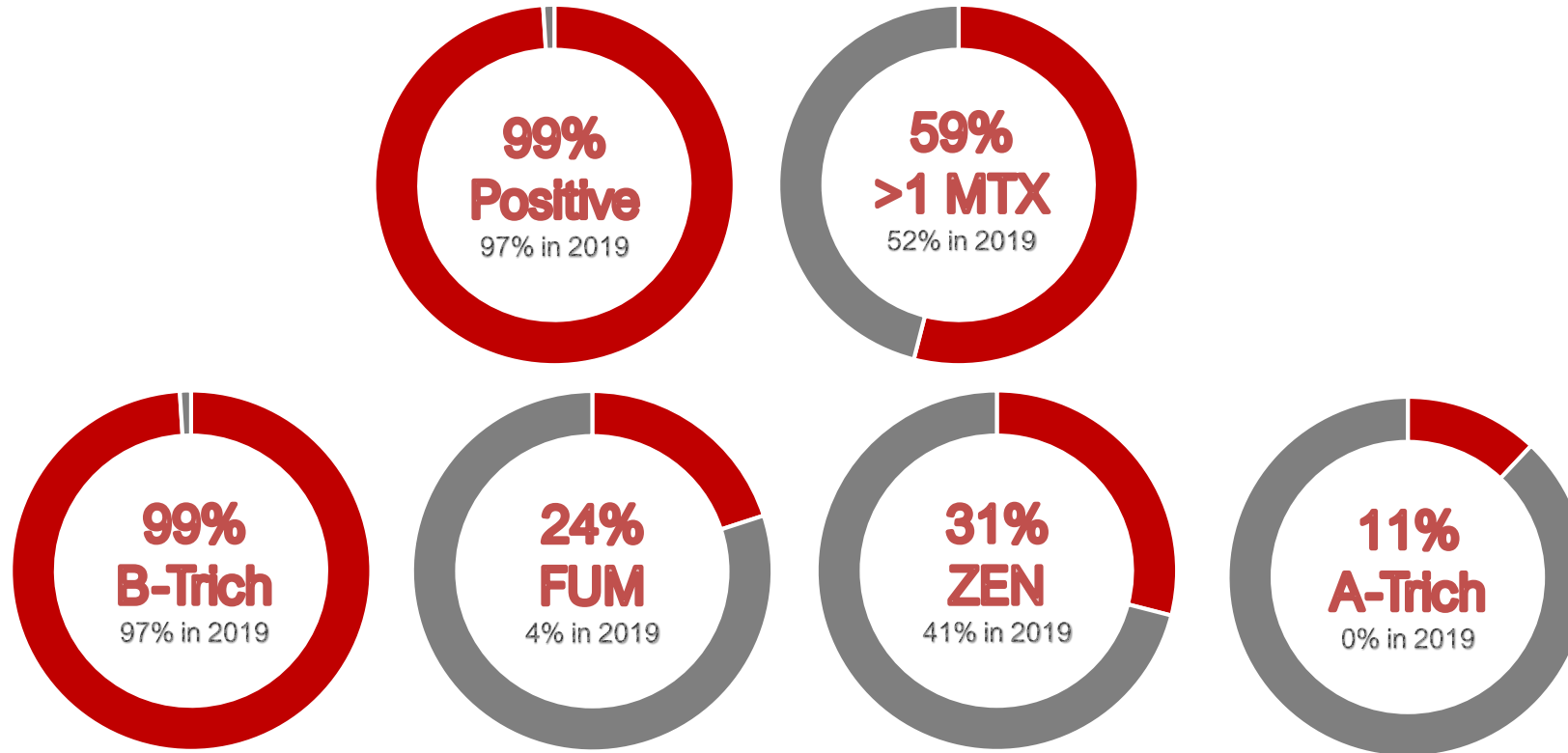
State	Number of Samples	% Positive Samples	Avg of Positive Samples
FL	1	100%	325
ID	1	100%	1079
IL	1	100%	1066
MD	1	100%	2404
ME	3	100%	785
MN	2	100%	2805
MO	5	100%	2113
NE	8	100%	1925
NY	11	100%	3396
OH	9	100%	5668
PA	10	100%	3379
SC	1	100%	1351
VA	3	100%	3203
VT	2	100%	2336
WI	16	94%	2240

State	Number of Samples	% Positive Samples	Avg of Positive Samples
FL	1	100%	546
ID	1	0%	0
IL	1	0%	0
MD	1	0%	0
ME	3	0%	0
MN	2	0%	0
MO	5	60%	2890
NE	8	38%	690
NY	11	0%	0
OH	9	0%	0
PA	10	40%	464
SC	1	0%	0
VA	3	67%	739
VT	2	50%	573
WI	16	25%	414


State	Number of Samples	% Positive Samples	Avg of Positive Samples
FL	1	0%	0
ID	1	0%	0
IL	1	0%	0
MD	1	0%	0
ME	3	0%	0
MN	2	0%	0
MO	5	0%	0
NE	8	38%	178
NY	11	55%	415
OH	9	33%	646
PA	10	60%	510
SC	1	0%	0
VA	3	33%	158
VT	2	0%	0
WI	16	25%	326

State	Number of Samples	% Positive Samples	Avg of Positive Samples
FL	1	0%	0
ID	1	0%	0
IL	1	0%	0
MD	1	0%	0
ME	3	0%	0
MN	2	0%	0
MO	5	60%	303
NE	8	0%	0
NY	11	9%	218
OH	9	0%	0
PA	10	0%	0
SC	1	0%	0
VA	3	0%	0
VT	2	50%	306
WI	16	19%	1104

# Mycotoxin Survey Summary - 2020 US Corn Silage



# Questions?



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