







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
	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



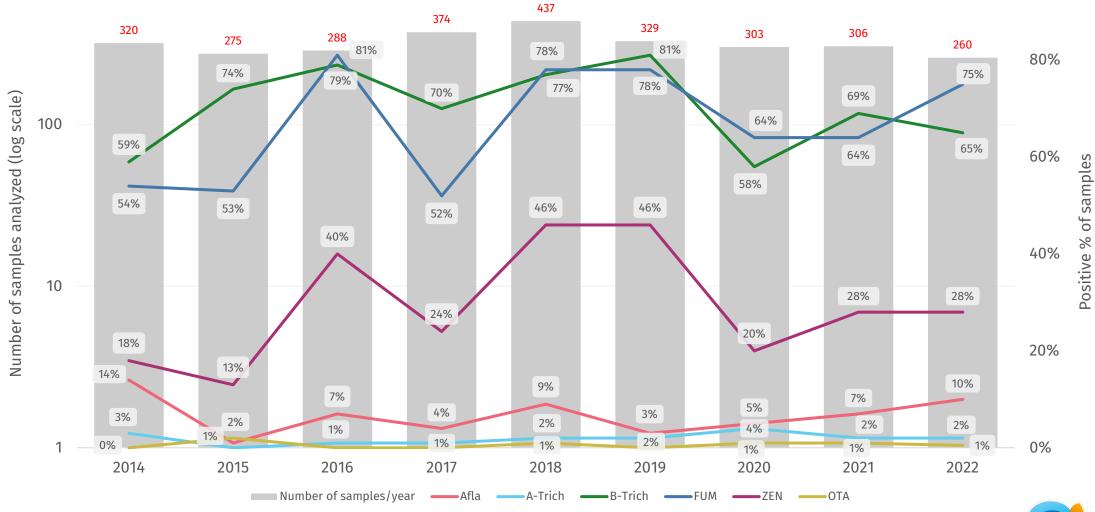
2022 US Corn (as-fed basis)



Occurrence Trend in 2022 US Corn



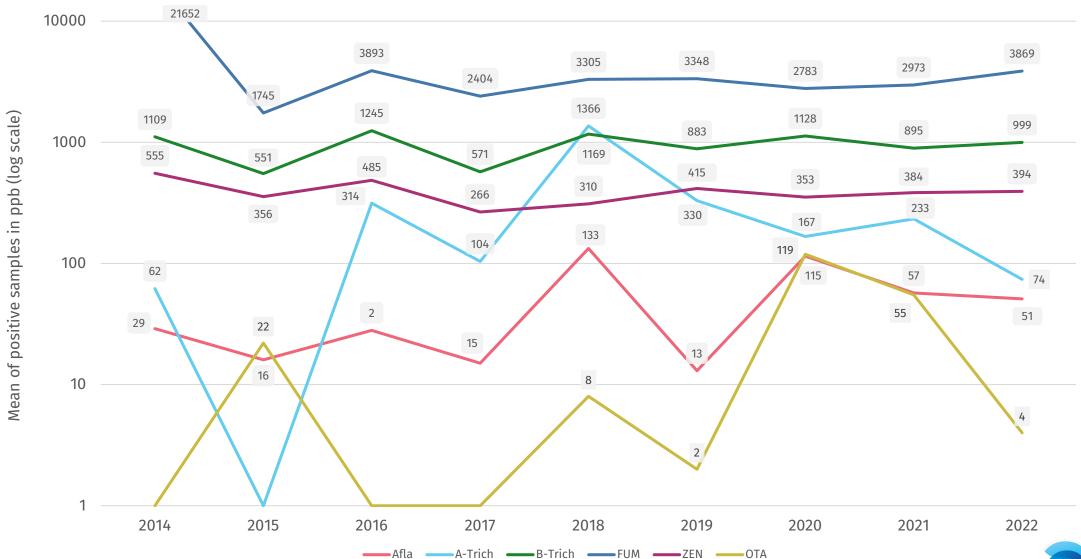
100%





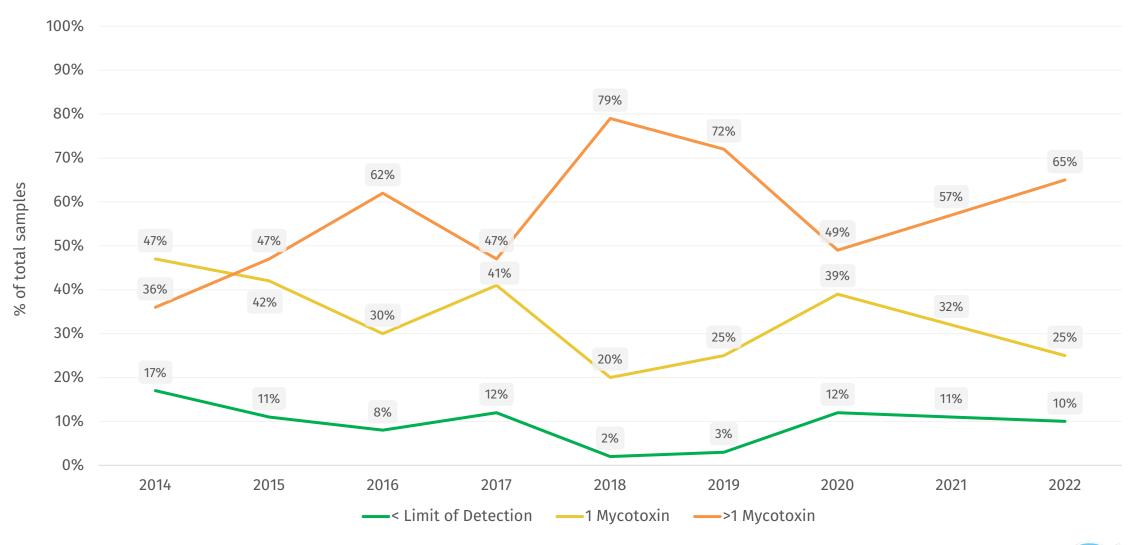
Mean of Positives Trend in 2022 US Corn







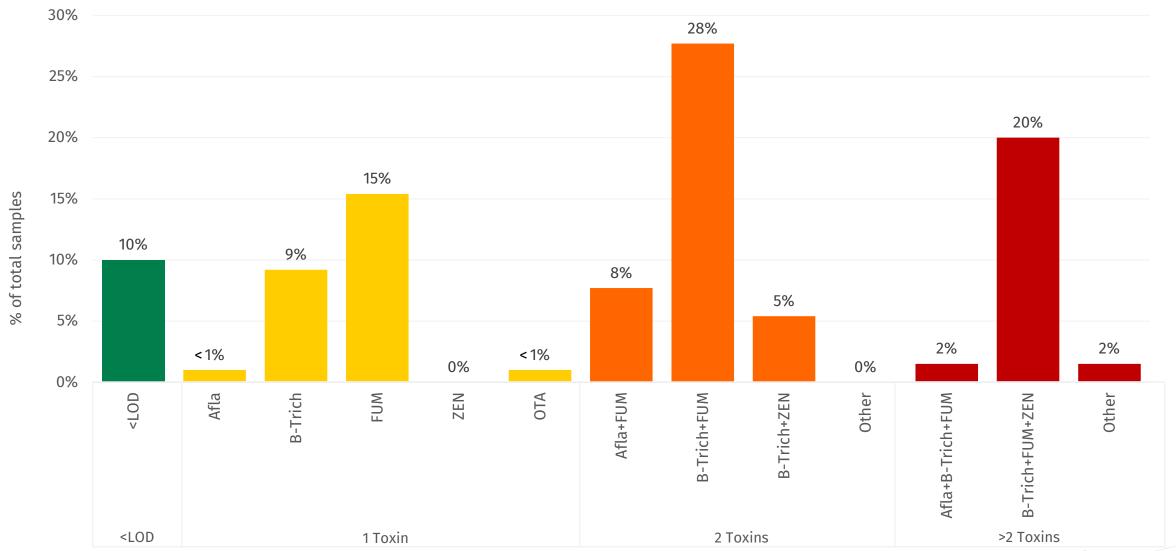






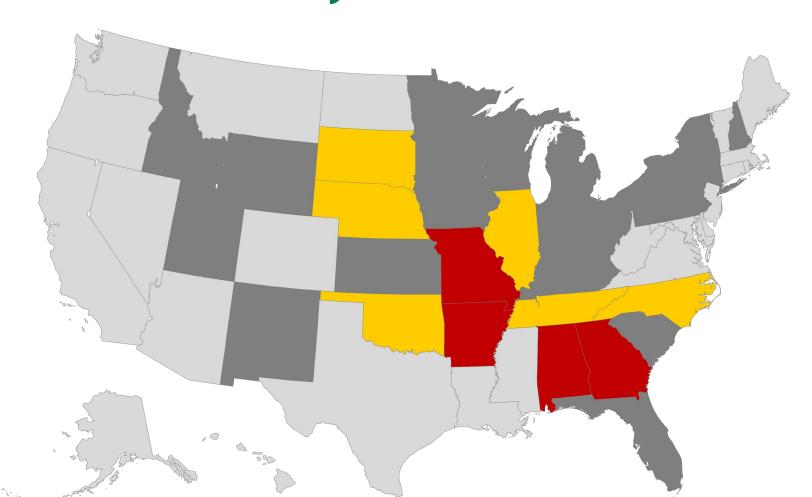
Co-occurrence Profile in 2022 US Corn



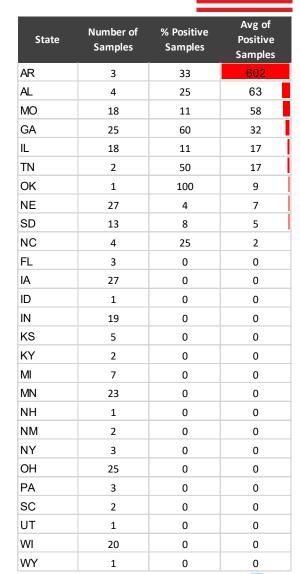




2022 Corn Risk by State – Afla



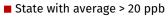










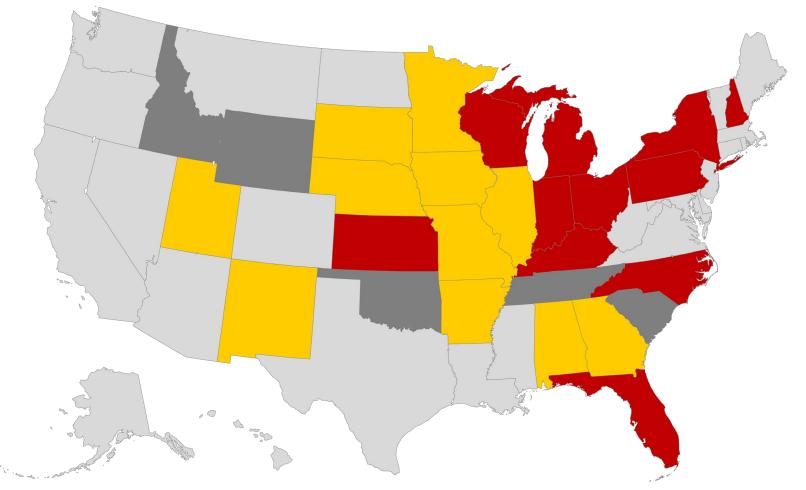


State with average < 20 ppb</p>

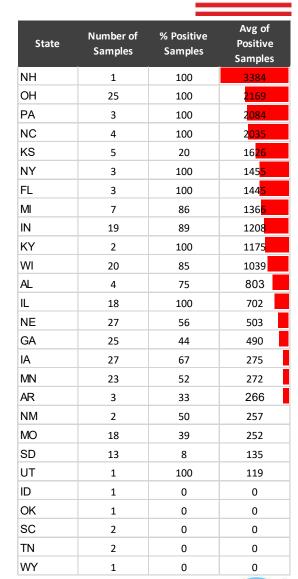
[■] State with samples < LOD (1 ppb)

[■] No sample submitted

2022 Corn Risk by State – B-Trich



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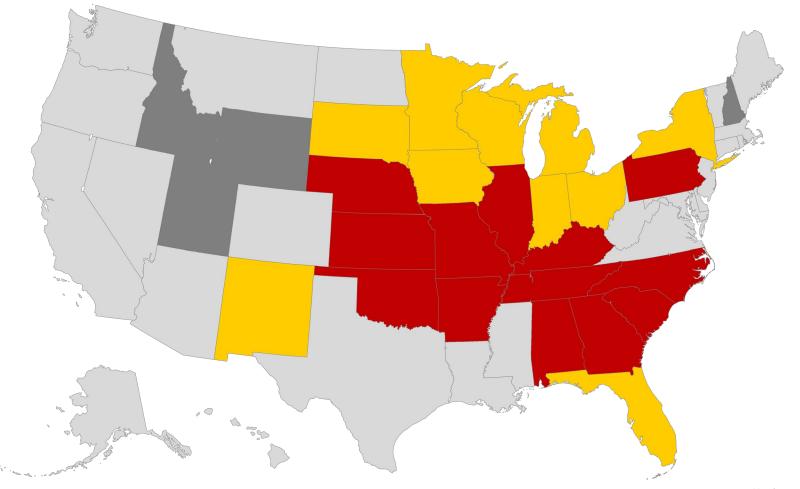
State	with	average	>	1000	nı	nh
Juice	VVICII	average	-	1000	м	μν

State with average < 1000 ppb

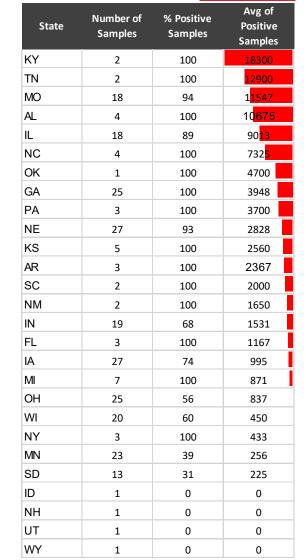
[■] State with samples < LOD (100 ppb)

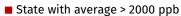
[■] No sample submitted

2022 Corn Risk by State - FUM









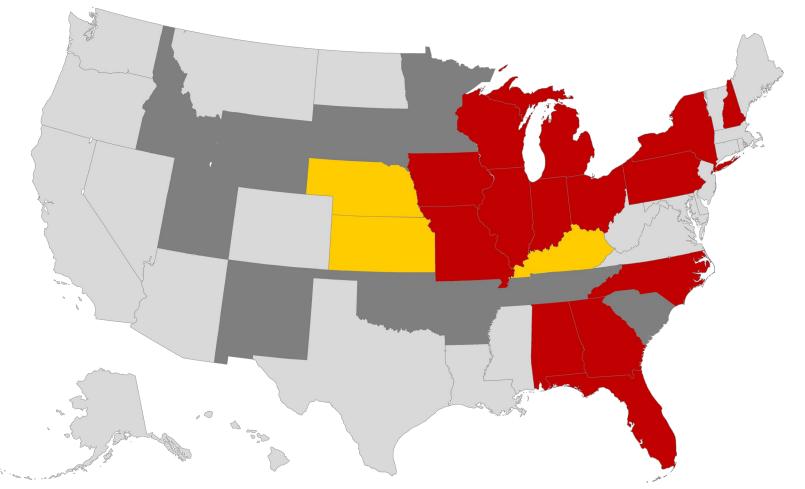
State with average < 2000 ppb

■ State with samples < LOD (100 ppb)

10 ■ No sample submitted



2022 Corn Risk by State – ZEN





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State	Number of Samples	% Positive Samples	Avg of Positive Samples	
IL	18	50	792	
IN	19	32	685	
GA	25	20	600	
NH	1	100	514	
NC	4	75	465	
ОН	25	64	4 <mark>01</mark>	
MI	7	29	333	
NY	3	100	275	
AL	4	75	253	
FL	3	100	215	
MO	18	6	214	
PA	3	33	206	
IA	27	7	179	
WI	20	60	171	
KY	2	50	89	
NE	27	15	79	
KS	5	20	57	
AR	3	0	0	
ID	1	0	0	
MN	23	0	0	
NM	2	0	0	
OK	1	0	0	
SC	2	0	0	
SD	13	0	0	
TN	2	0	0	
UT	1	0	0	
WY	1	0	0	

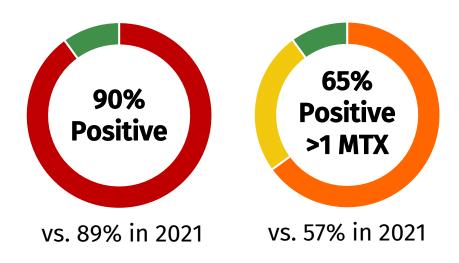


■ State with average > 100 ppb State with average < 100 ppb</p>

Mycotoxin Survey Summary – 2022 US Corn







B-Trich

• 65% positive / ↓ from 69%

vs. 2021

• 999 ppb / ↑ from 895 ppb

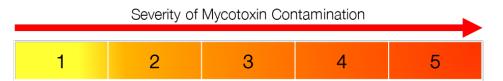
FUM

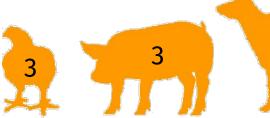
- 75% positive / ↑ from 64%
- 3869 ppb / ↑ from 2973 ppb

ZEN

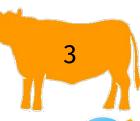
- 28% positive / ↔ from 28%
- 394 ppb / ↑ from 384 ppb

Forecasted potential risk for livestock production*:











Questions?



Thank you!

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