







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



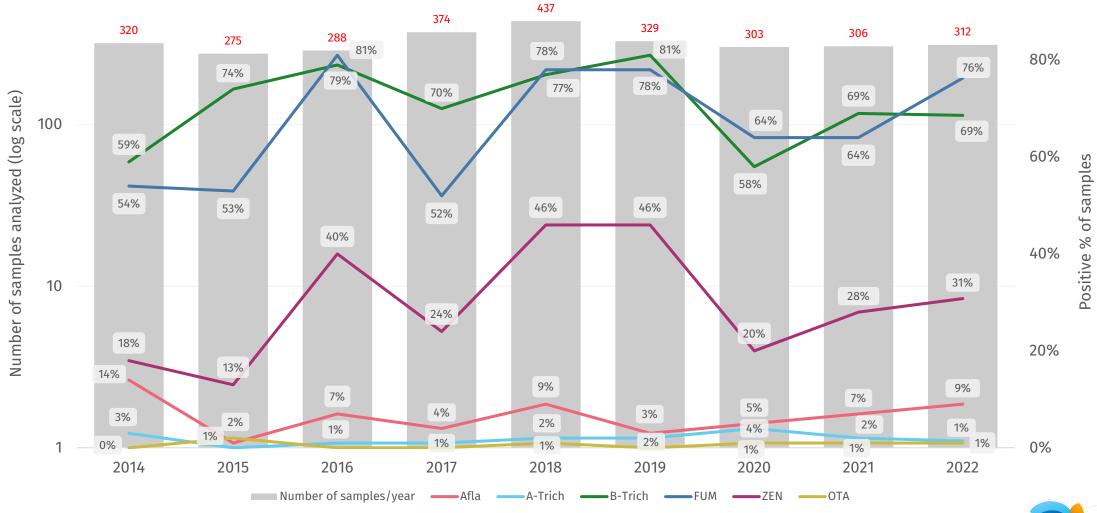
2022 US Corn (as-fed basis)



Occurrence Trend in 2022 US Corn



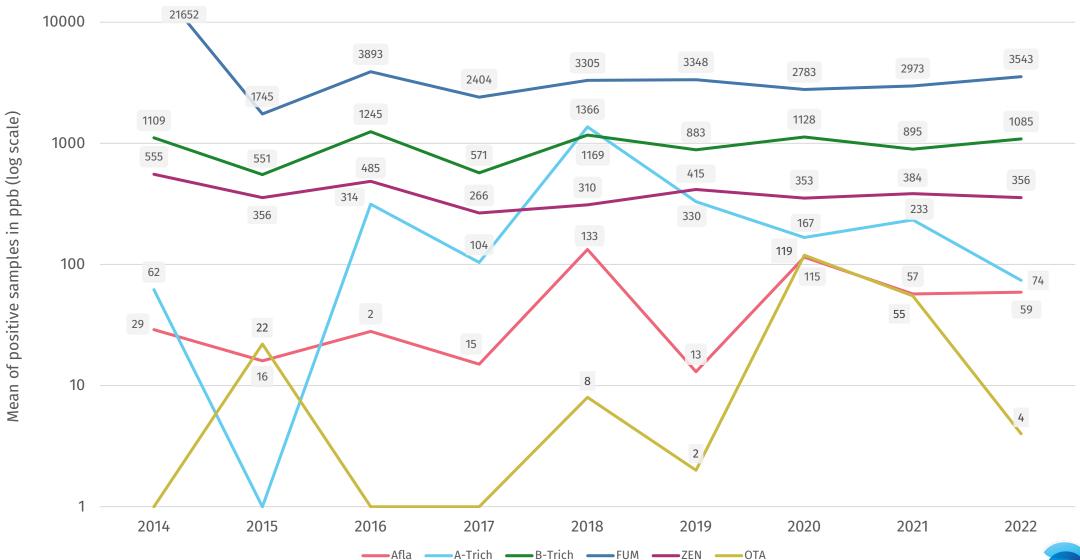
100%





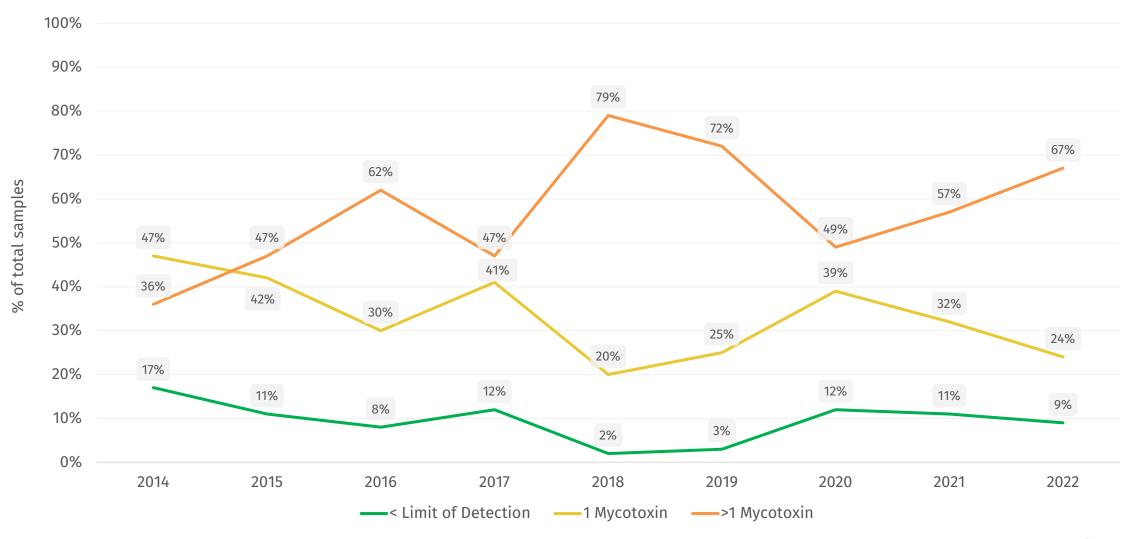
Mean of Positives Trend in 2022 US Corn







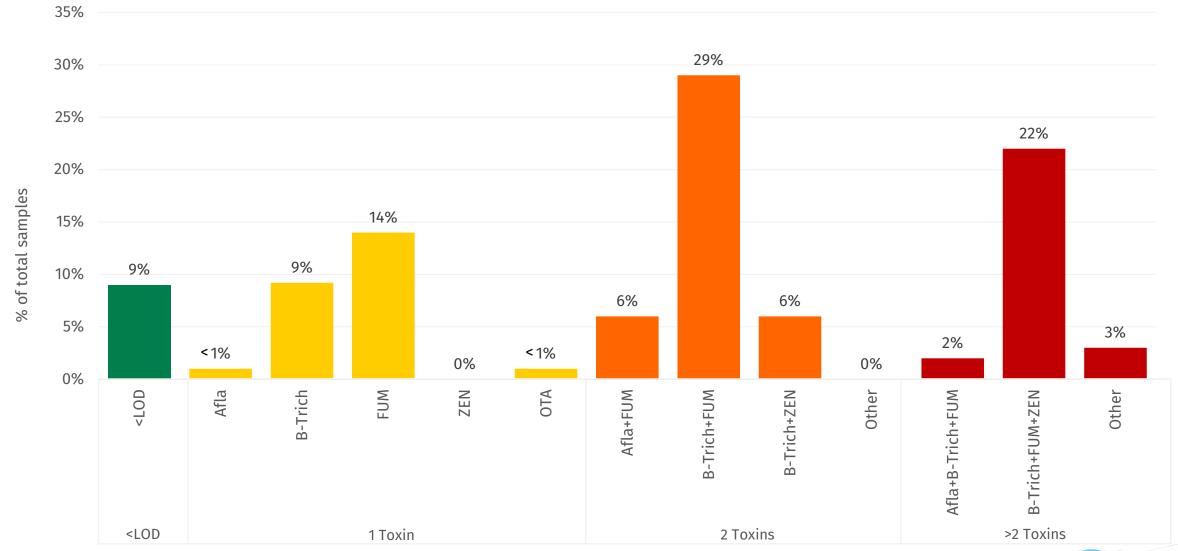






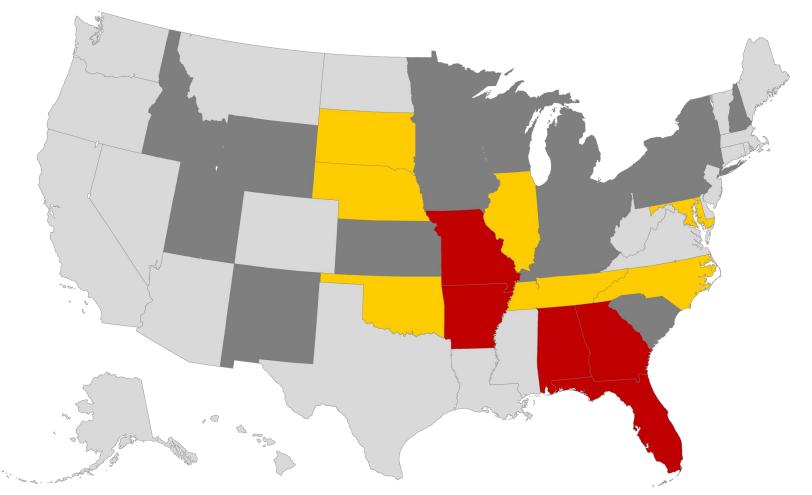
Co-occurrence Profile in 2022 US Corn



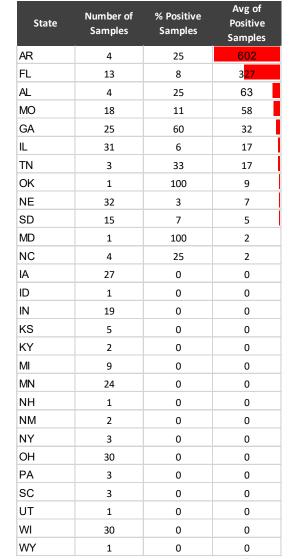




2022 Corn Risk by State – Afla



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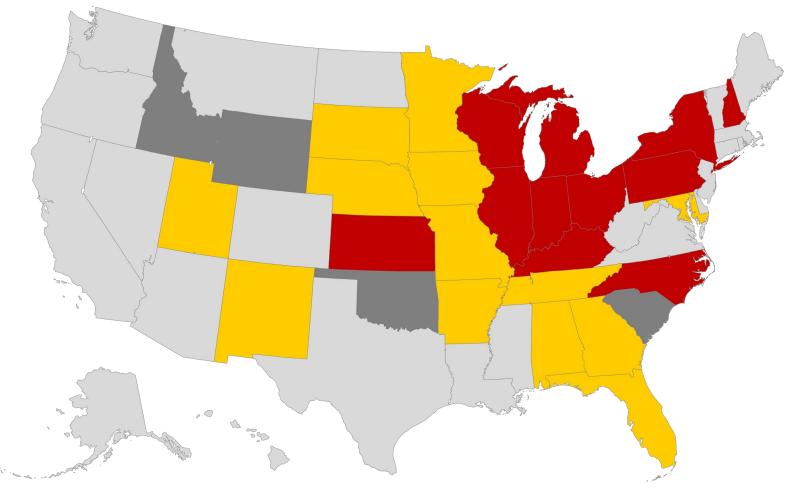
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State with average < 20 ppb

[■] State with samples < LOD (1 ppb)

[■] No sample submitted

2022 Corn Risk by State – B-Trich



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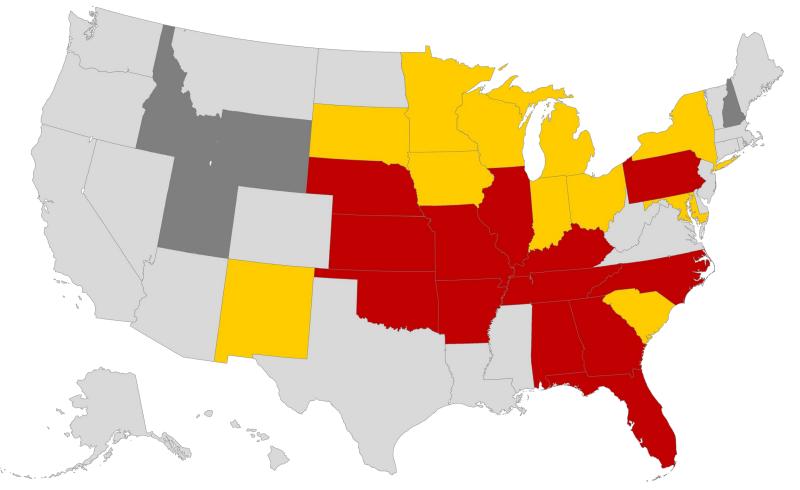


State	Number of Samples	% Positive Samples	Avg of Positive Samples	
NH	1	100	3384	
ОН	30	100	2315	
PA	3	100	2 <mark>084</mark>	
NC	4	100	2 <mark>035</mark>	
KS	5	20	16 <mark>26</mark>	
NY	3	100	145 <mark>5</mark>	
WI	30	87	1305	
IN	19	89	1208	
KY	2	100	1175	
MI	9	89	1157	
IL	31	100	1113	
MD	1	100	924	
FL	13	77	907	
AL	4	75	803	
TN	3	33	714	
GA	25	44	490	
NE	32	63	452	
IA	27	67	275	
AR	4	25	266	
MN	24	54	264	
NM	2	50	257	
MO	18	39	252	
SD	15	7	135	
UT	1	100	119	
ID	1	0	0	
OK	1	0	0	
sc	3	0	0	
WY	1	0	0	

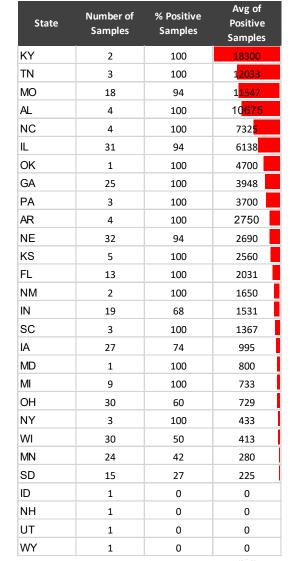


State with average < 1000 ppb</p>

2022 Corn Risk by State - FUM



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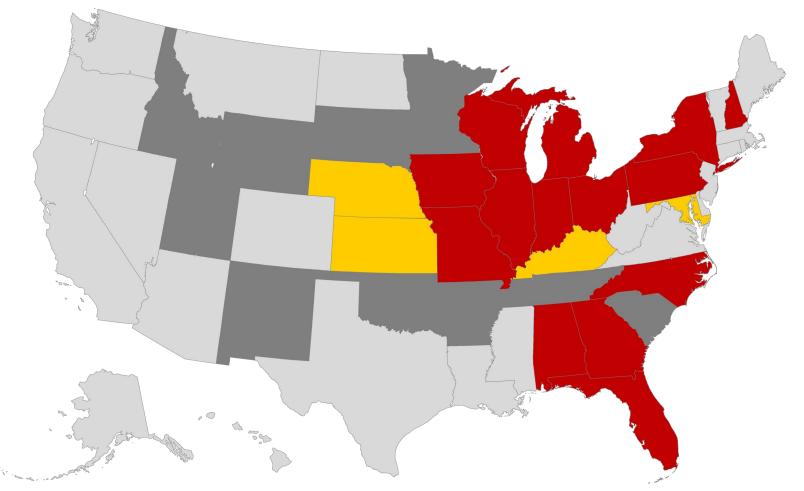
State	with	average	>	2000	n	nh
Juice	VVICII	uvciusc	-	2000	м	ν

State with average < 2000 ppb

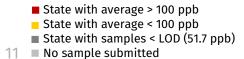
[■] State with samples < LOD (100 ppb)

^{10 ■} No sample submitted

2022 Corn Risk by State – ZEN









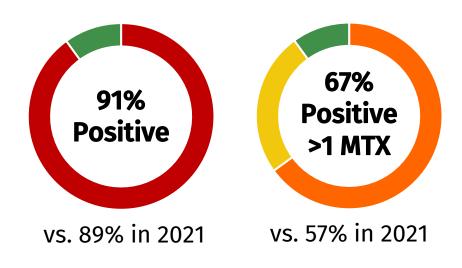
State	Number of Samples				
IN	19	32	685		
GA	25	20	600		
IL	31	65	525		
NH	1	100	514		
NC	4	75	465		
ОН	30	60	405		
MI	9	22	33 <mark>3</mark>		
NY	3	100	275		
AL	4	75	253		
MO	18	6	214		
PA	3	33	206		
IA	27	7	179		
FL	13	38	167		
WI	30	63	158		
KY	2	50	89		
NE	32	13	79		
KS	5	20	57		
MD	1	100	53		
AR	4	0	0		
ID	1	0	0		
MN	24	0	0		
NM	2	0	0		
OK	1	0	0		
SC	3	0	0		
SD	15	0	0		
TN	3	0	0		
UT	1	0	0		
WY	1	0	0		



Mycotoxin Survey Summary – 2022 US Corn







B-Trich

• 69% positive / ↔ from 69%

vs. 2021

• 1085 ppb / ↑ from 895 ppb

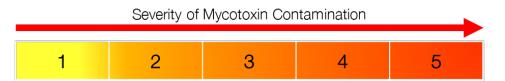
FUM

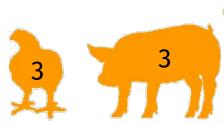
- 76% positive / ↑ from 64%
- 3543 ppb / ↑ from 2973 ppb

ZEN

- 31% positive / ↑ from 28%
- 356 ppb / ↓ from 384 ppb

Forecasted potential risk for livestock production*:











Questions?



Thank you!

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