

# Mycotoxin Summary Results

Mycotoxin evaluation is a key component of the Agrarian Mycotoxin Protection Program. The mycotoxin summary results for April 1 through September 30, 2023 are displayed in figures 1 and 2. These values reflect a combination of preserved 2022 feeds and newly harvested 2023 corn silage. For corn silage and dairy TMR samples, respectively. Mycotoxin assay results vary considerably across the United States. The past trend is for mycotoxin levels to increase as we move from the Plains States east to PA and NY, and there is not a clear pattern of 2022 vs 2023 values.

The states of OH, NY and PA reported elevated DON, zearalenone and fumonisin levels for an unfortunate trifecta. The IL fumonisin TMR levels were surprisingly high given the moderate levels of the corn silage, which suggests the feeding of contaminated by-products.

I encourage you to participate in the Agrarian mycotoxin testing program. We are emphasizing recording crop for the corn silage samples to identify year to year changes, as well as variability through the year. In addition, please consider the value of monthly monitoring of TMR and corn silage for mycotoxin variation. Proactive sampling may help to identify challenges before escalating. Contact your Agrarian representative for the latest on mycotoxin evaluation.



**MYCOTOXIN  
REPORT**

APRIL 1, 2023 - SEPTEMBER 30, 2023

TMR MYCOTOXIN VALUE STATE AVERAGES (all values in ppb) | APRIL 1, 2023 - SEPTEMBER 30, 2023

State	Zearalenone	DON Average	Fumonisin Average	T-2 Toxin Average
IA	30	637	100	nd
IL	87	1056	2393	2
IN	89	1491	529	4
KS	16	150	930	nd
MD	80	900	600	nd
MI	76	2002	193	78
MN	81	597	143	18
NE	nd	280	400	nd
NY	108	1625	200	144
OH	244	4310	92	3
PA	98	1548	747	nd
TX	185	380	433	nd
VA	113	980	586	1
WA	nd	376	0	nd
WI	93	1467	210	17
WV	240	1950	100	nd

nd = none detected

low

medium

high

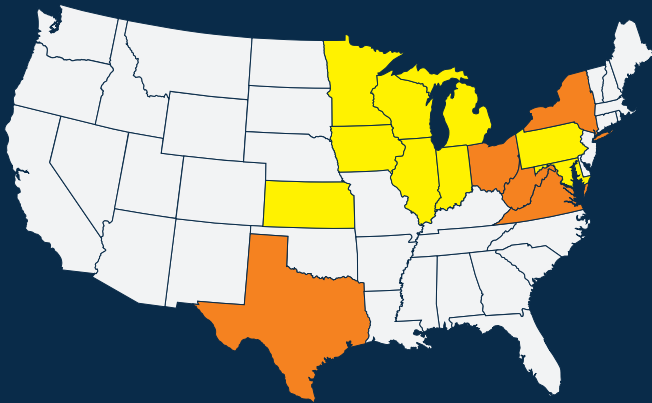
ppb = parts per billion

START DATE April 1, 2023 | END DATE September 30, 2023

NO. OF SAMPLES 263

1 DON = DON + 3-Acetyl-DON + 15-Acetyl-DON; FUM = fumonisin B1 + fumonisin B2; T-2 = T-2 toxin + HT-2 Toxin

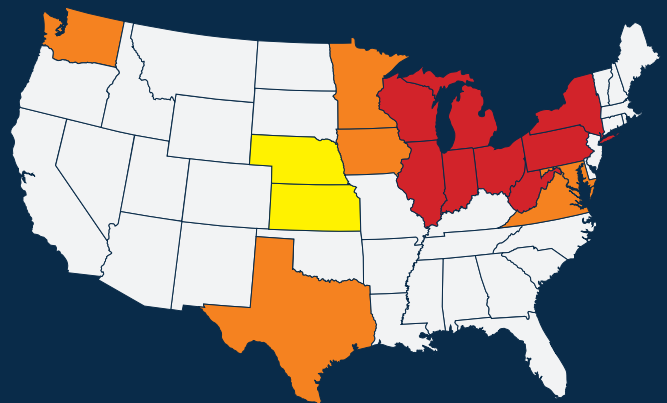
# Zearalenone



ppb (parts per billion)



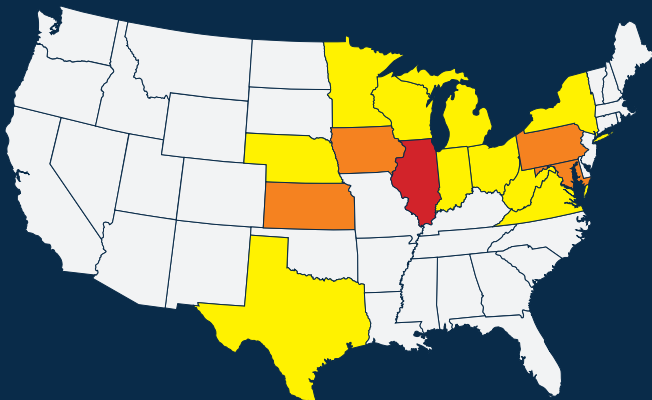
## DON Average



ppb (parts per billion)



## Fumonisin Average



**ppb (parts per billion)**



## T-2 Toxin Average



ppb (parts per billion)



State	Zearalenone	DON Average	Fumonisin Average	T-2 Toxin Average
IA	221	1523	nd	nd
IL	273	1320	251	240
IN	79	1485	150	16
KS	44	775	210	nd
MD	40	4210	900	nd
MN	49	638	184	51
NY	348	3184	328	83
OH	101	2169	547	12
PA	96	1571	567	nd
SD	nd	210	nd	nd
VA	417	2920	960	8
WA	nd	710	nd	nd
WI	102	2145	167	4
WV	110	1650	nd	nd

nd = none detected

= low

= medium

= high

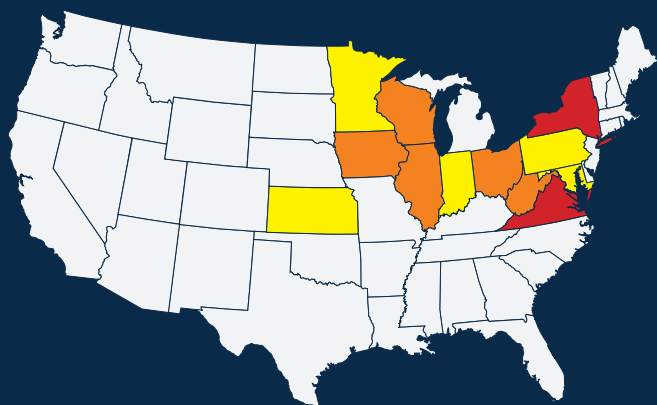
ppb = parts per billion

START DATE April 1, 2023 | END DATE September 30, 2023

NO. OF SAMPLES 100

1 DON = DON + 3-Acetyl-DON + 15-Acetyl-DON; FUM = fumonisin B1 + fumonisin B2; T-2 = T-2 toxin + HT-2 Toxin

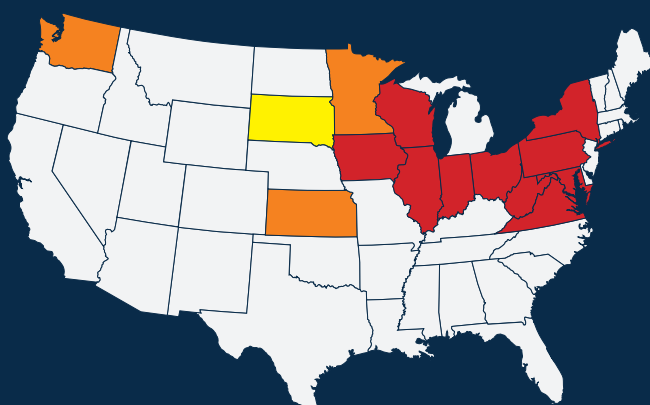
## Zearalenone



ppb (parts per billion)

nd <100 100-300 301+

## DON Average



ppb (parts per billion)

nd <300 300-1000 1001+

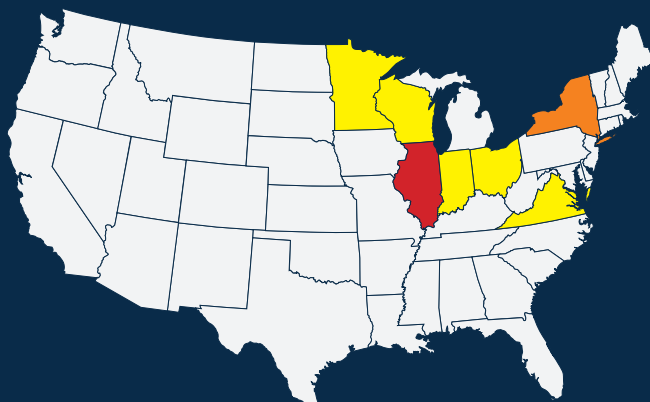
## Fumonisin Average



ppb (parts per billion)

nd <600 600-1500 1501+

## T-2 Toxin Average



ppb (parts per billion)

nd <75 75-150 151+