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Mycotoxin Summary Results

Mycotoxin Report: March – September 2024

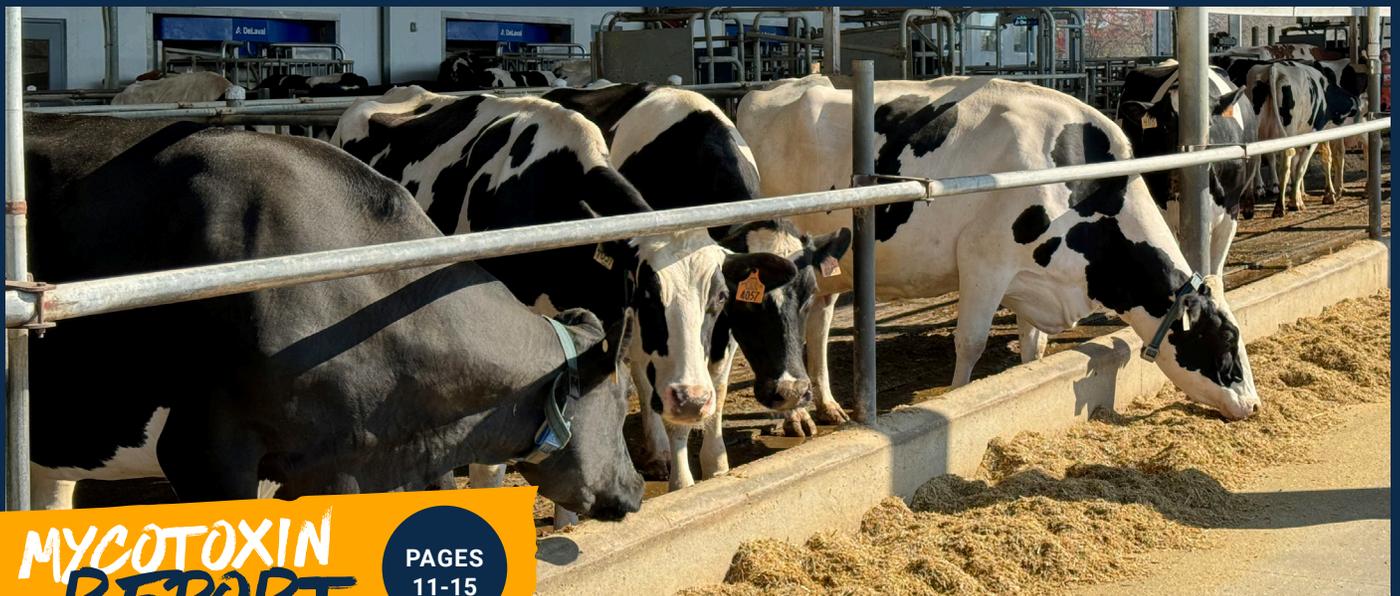
Regional differences were clear for mycotoxin assay results for the 505 corn silage and 303 TMR samples collected between March 1 and September 30, 2024, as displayed in Table 1 and 2 and Figures 1 and 2 for the TMR and corn silage respectively.

Following earlier trends, both corn silage and TMR assays suggest DON contamination is the greatest concern in the Northeast and Great Lakes regions with 14 states averaging high risk results for corn silage and 9 states posting TMR averages in the high-risk zone. Interestingly, WI state-wide averaged just over 1,700 ppb DON; however, individual values ranged from low in the western part of the state to very high in the eastern section of WI. A trend that merits watching is the high fumonisin levels in corn silage and TMR for NC, VA and PA as these areas experienced drought conditions during the 2024 growing season.

Six states had TMR DON readings in the high-risk category paired with zearalenone levels greater than 150 ppb. The drought conditions in VA likely resulted in the state's TMR samples assaying in the high-risk range for DON, T-2 and fumonisin as well as medium risk for zearalenone.

The mycotoxin assay results and risk ranges for individual mycotoxins are only part of the decision of utilizing DTX™ as a herd management tool. The occurrence of multiple mycotoxins in the final diet compounds the challenges posed by each single toxin as the animal must defend and protect against the cumulative toxin load. Consequently, past field experiences of dairy nutritionists and producers indicate that herd indicators (health, reproduction and production), or “what the cows are telling us”, must be teamed with mycotoxin assay results to ultimately determine whether DTX should be fed for mycotoxin protection, as well as the amount of DTX. In situations involving the feeding of a high-risk mycotoxin-contaminated diet and multiple herd indicators, nutritionists and producers relate positive results from supplementing the BioCycle™ Plus product.

Agrarian Solutions encourages nutritionists and livestock producers to submit TMR and feed ingredients for mycotoxin evaluation to determine correct protection strategies. Please contact your regional Agrarian representative for assistance with sample submittal and result evaluation.



**MYCOTOXIN
REPORT**

PAGES
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MARCH – SEPTEMBER 2024

Table 1

State	Total DON, ppb	Zearalenone, ppb	Total T2, HT2, ppb	Total Fumonisin, ppb
MI	3,065	371	26	169
VT	1,801	193	74	188
NY	1,624	192	122	199
OH	1,496	100	90	218
WI	694	61	50	218
MN	274	61	24	226
TX	ND	ND	ND	249
IN	2,239	117	14	380
MD	445	44	ND	511
IA	293	3	21	660
GA	1,190	100	ND	850
IL	3,070	220	ND	950
PA	1,633	260	19	1,619
VA	1,141	175	303	2,187
NC	639	142	ND	2,190
ID	ND	ND	ND	ND

■ = nd - none detected
 ■ = low risk
 ■ = medium risk
 ■ = high risk
 ppb = parts per billion

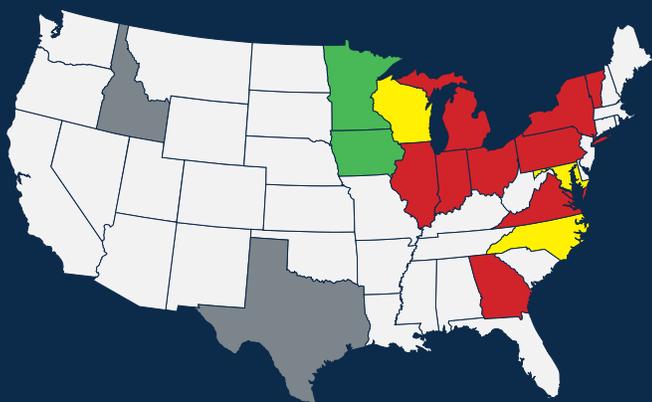
START DATE **March 1, 2024** | END DATE **September 30, 2024**

NO. OF SAMPLES 303

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

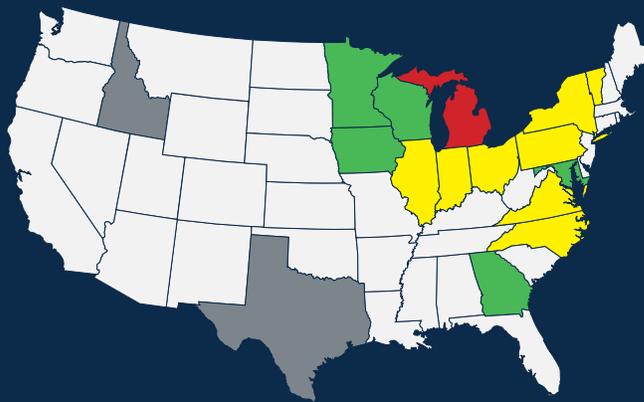
Figure 1

DON



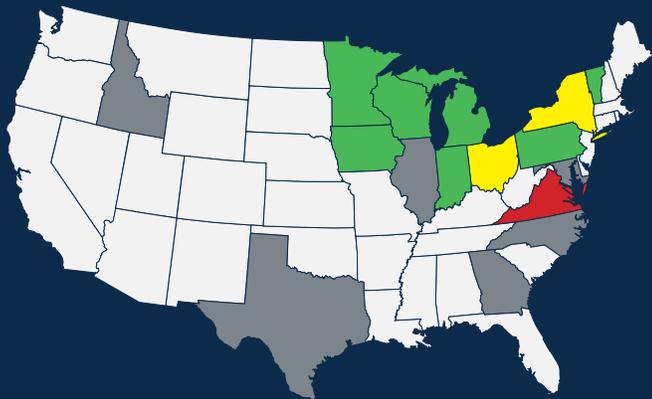
ppb (parts per billion)
 nd <300 300-1000 1001+

Zearalenone



ppb (parts per billion)
 nd <100 100-300 301+

T-2 Toxin



ppb (parts per billion)
 nd <75 75-150 151+

Fumonisin



ppb (parts per billion)
 nd <600 600-1500 1501+

Table 2

State	Total DON, ppb	Zearalenone, ppb	Total T2, HT2, ppb	Total Fumonisin, ppb
FL	ND	23	ND	106
IA	677	56	59	98
KS	773	44	ND	208
MN	1,061	110	73	209
WI	1,762	152	70	338
MI	5,283	290	149	382
GA	2,710	290	ND	400
NY	3,837	383	93	423
IL	1,210	82	10	549
IN	7,221	167	76	563
TX	ND	ND	ND	690
VT	2,185	305	269	717
OH	2,314	98	40	758
PA	2,336	233	29	2,064
VA	2,331	315	19	2,675
NC	937	160	ND	2,976
NJ	2,663	510	ND	7,722
SD	2,540	140	ND	ND
ME	1,420	139	26	ND

= nd - none detected
 = low risk
 = medium risk
 = high risk
 ppb = parts per billion

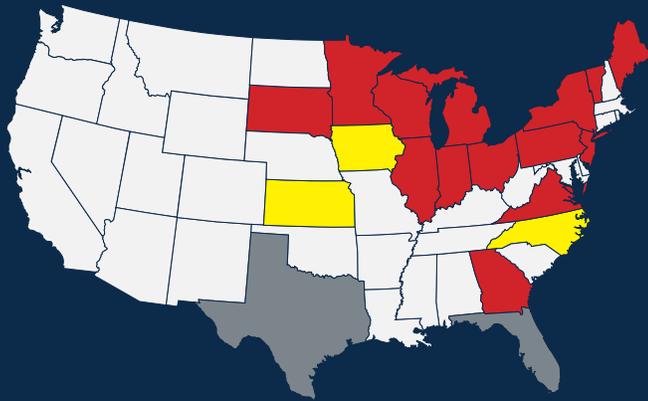
START DATE **March 1, 2024** | END DATE **September 30, 2024**

NO. OF SAMPLES 505

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

Figure 2

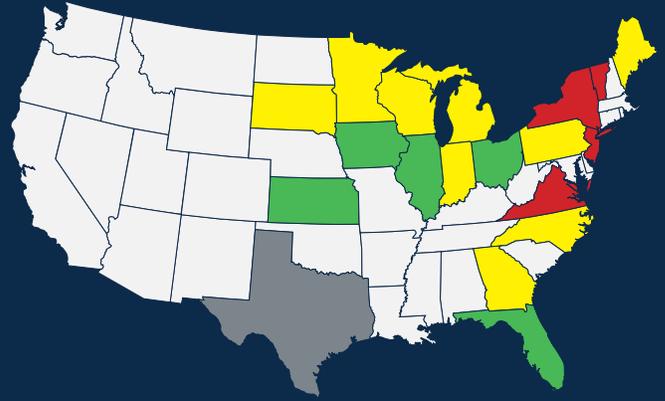
DON



ppb (parts per billion)

nd <300 300-1000 1001+

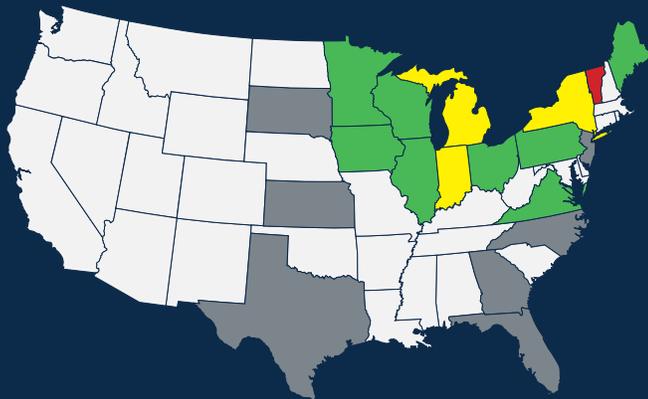
Zearalenone



ppb (parts per billion)

nd <100 100-300 301+

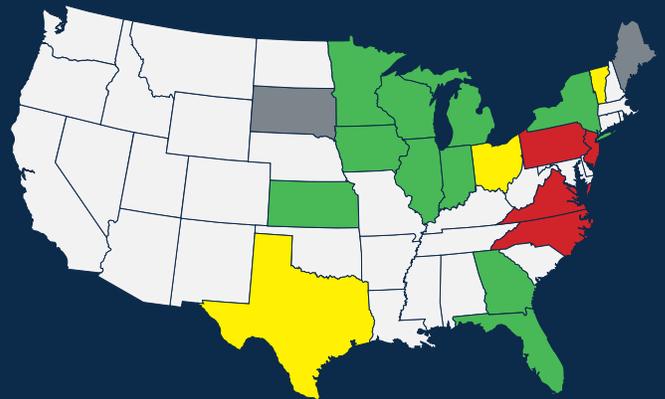
T-2 Toxin



ppb (parts per billion)

nd <75 75-150 151+

Fumonisin



ppb (parts per billion)

nd <600 600-1500 1501+