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## **Mycotoxin Summary Results**

Mycotoxin summary results for October 1, 2022 through March 31, 2023 are displayed in figures 1 and 2 for TMR and corn silage samples, respectively. Generally, Eastern States, with higher rainfall patterns, posted higher mycotoxin levels than the Plains States experiencing drier conditions or drought.

Ohio's TMR assay results were most problematic with a combination of elevated DON and zearalenone readings to affect both digestion/nutrient absorption and reproductive success. Interestingly, Ohio's corn silage zearalenone levels were not that concerning, suggesting that by-products being fed could be significant zearalenone contributors to the Ohio TMR values. Conversely, Michigan TMR mycotoxin levels were somewhat lower than what might be predicted from the state's corn silage assays.

High fumonisin corn silages values were observed along the Eastern Seaboard from South Carolina through North Carolina, Virginia and into Maryland and Pennsylvania. Fortunately, other feed ingredients must have been relatively low in fumonisin to create the safe levels seen in the TMR samples.

I encourage you to participate in the Agrarian mycotoxin testing program. We are emphasizing recording crop year 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.

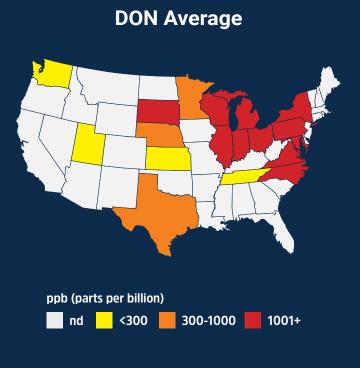
State	Zearalenone	DON Average	Fumonisins Average	T-2 Toxin Average
IL	100	1225	867	nd
IN	nd	2030	nd	nd
KS	110	265	567	nd
MD	85	1959	333	nd
MI	180	2005	150	nd
MN	83	420	125	nd
NE	nd	370	600	nd
NY	148	1707	233	250
NC	225	1755	1550	nd
ОН	776	3695	150	nd
PA	169	1619	397	nd
SD	120	1183	100	nd
TN	nd	260	nd	nd
TX	140	322	188	nd
UT	nd	195	200	nd
VA	92	1128	437	nd
WA	nd	270	100	nd
WI	139	1836	138	97

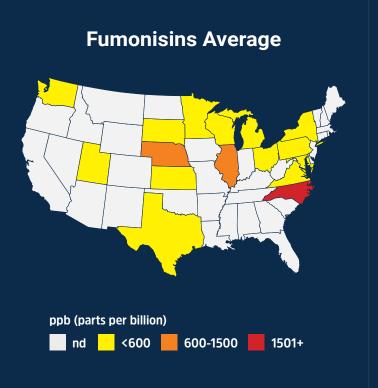
nd = none detected = low = medium = high ppb = parts per billion

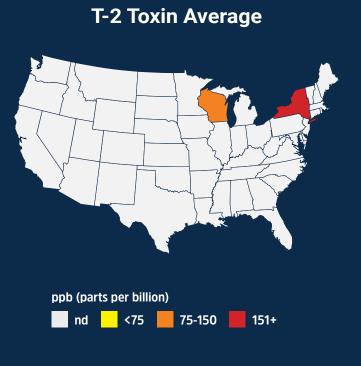
START DATE October 1, 2022 | END DATE March 31, 2023

NO. OF SAMPLES 277









State	Zearalenone	DON Average	Fumonisins Average	T-2 Toxin Average
AR	nd	nd	6400	nd
ID	nd	nd	nd	nd
IL	nd	550	300	nd
IN	nd	nd	nd	nd
IA	nd	440	100	nd
KS	nd	120	nd	nd
LA	nd	nd	nd	nd
MD	60	620	900	nd
MI	2195	4345	nd	nd
MN	207	1543	185	190
MO	nd	270	nd	nd
NE	nd	nd	nd	nd
NM	nd	nd	nd	nd
NY	135	2072	200	310
NC	575	2909	2340	nd
ОН	178	1895	397	305
PA	284	2075	1232	nd
SC	nd	105	1200	nd
SD	nd	nd	nd	nd
TN	nd	nd	2400	nd
VA	238	3821	1107	70
WI	285	3377	360	380

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

START DATE October 1, 2022 | END DATE March 31, 2023

NO. OF SAMPLES 188

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

