

Cornell Cooperative Extension

Central New York Dairy, Livestock and Field Crops

Field Crop Update – 16 August 2022

1. Field Observations
2. Growing Degree Days
3. Pest and Disease Monitoring

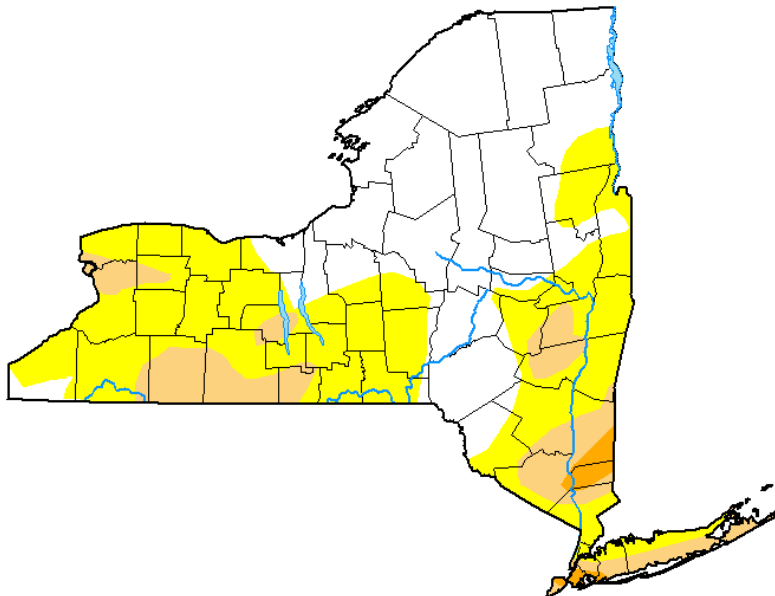
1. Field Observations

Last week's report never came, so this week's report is early.

Similar to two weeks ago, Madison and Chenango counties remain "abnormally dry", along with eastern Schoharie and Saratoga Counties:

U.S. Drought Monitor New York

August 9, 2022
(Released Thursday, Aug. 11, 2022)
Valid 8 a.m. EDT



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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droughtmonitor.unl.edu

2. Growing Degree Days as of Aug 15th: See: [Climate Smart Farming Growing Degree Day Calculator](#)
 Growing degree days (GDD) are calculated by taking the average daily temperature and subtracting the base temperature for development of a given organism $((High + Low)/2 - base\ temp = GDD)$. For corn silage, we are using base 50/86, as corn development starts at 50 degrees F and ceases above 86. **Check your location and planting date.**

Silage corn needs 750-800 GDD (depending on hybrid maturity) after silking to reach a whole plant DM of 32%. Under typical late season dry down conditions we can expect the crop to reach 35% DM four to seven days later (Remember that we can expect to accumulate 20-25 GDD per day, or even up to 30, so this is not a large window). For more details, see: <https://ecommons.cornell.edu/bitstream/handle/1813/111372/Corn%20silking.pdf?sequence=2&isAllowed=y>

But no matter what the numbers say, always check your crop to see how close you may be to harvest:

Hybrid relative maturity	GDD from silking to reach ~32% DM
101-110	800
96-100	750
<96	750 or slightly less (extrapolated)

As of: 20 July 2022 (Base: 86/50)			Planting Date				Silking Date				
Location	Elevation (ft)	Latitude N	May 10	May 15	May 20	May 25	July 17	July 20	July 23	July 26	July 29
Poland	675	43.23	1554	1472	1431	1360	594	529	455	395	341
Canastota	420	43.08	1789	1694	1645	1570	671	590	509	436	376
Saratoga Springs	365	43.08	1767	1674	1622	1547	656	582	507	437	383
Frankfort	530	43.03	1724	1635	1587	1511	645	574	497	430	370
Galway	749	43.02	1694	1604	1555	1482	635	563	488	421	370
St Johnsville	650	43	1597	1514	1471	1398	596	529	455	392	342
Fenner	1480	42.97	1582	1497	1457	1391	605	535	457	392	340
Fultonville	489	42.95	1702	1614	1566	1491	635	564	488	421	368
Bouckville	1170	42.93	1567	1486	1445	1378	597	527	453	388	336
Richfield Springs	1580	42.85	1518	1441	1401	1333	579	514	442	380	329
Cherry Valley	758	42.81	1515	1441	1401	1332	582	517	444	382	332
Burlington	1959	42.72	1464	1389	1352	1287	570	505	436	373	324
Sherburne	1115	42.69	1624	1542	1497	1426	612	542	469	402	349
Cobleskill	937	42.68	1666	1587	1540	1467	638	566	489	422	366
Oneonta	1107	42.47	1427	1353	1315	1250	561	497	430	368	321
Oxford	1499	42.4	1521	1441	1398	1332	587	521	450	385	333
Bainbridge	1000	42.3	1562	1481	1435	1365	601	534	462	397	344

3. Pest and disease monitoring

Crop foliage continues to be *largely* clean in terms of insect pests and diseases. I'm seeing some feeding damage by Japanese beetles and grasshoppers, but nothing major.

A. *Western bean cutworm (WBC)*, *true armyworm (TAW)* and *fall armyworm (FAW)*:

For the second straight week, numbers of these three moths have dropped in my traps, so this will be the last week for reporting numbers:

Week of:		8 August			15 August		
County	Town/Village	WBCW	TAW	FAW	WBCW	TAW	FAW
Madison	Oneida	3	(1)	0	0		0
Herkimer	Poland	1		0	0		1
Montgomery	Canajoharie	8	0		0	0	
Saratoga	W. Charlton	32		0	6		1
Schoharie	Schoharie	0		0	0		0
Otsego	Index	0	0		0	0	
Chenango	Brisben	15	0		0	0	

B. *Potato leafhopper in alfalfa*. Many fields have either just been cut or are nearing harvest:

Week of 8 August							
County	Town/Village	Date	Ht (in)	PLH/sweep	Threshold		
Madison	Scribner Crns	8/8	15	0	2*		
Madison	Oneida	8/8	22	0	2*		
Montgomery	Glen 1	8/8	15	0.5	2*		
Montgomery	Glen 2	8/8	18	0.6	2*		
Chenango	Guilford	8/9	20	2.1	2*		
Week of 15 August							
Madison	Sullivan 1	8/16	20	0.167	2*		
Madison	Sullivan 2	8/16	20	0	2*		
Madison	Oneida	8/16	30	0.35	2*		
Montgomery	Glen 1	8/15	24	0	2*		
Montgomery	Glen 2	8/15	22	0.4	2*		
		*No action needed within a week of harvest					

***No action needed within a week of harvest.**