

Cornell Cooperative Extension

Central New York Dairy, Livestock and Field Crops

Field Crop Update Aug 20, 2021

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

1. Field Observations

Rain. Lots of it. And even now that it's stopped, it'll still be a few days before many of us can get into the field. We *might* get a brief respite Tue-Wed of next week, but thankfully most were able to take hay cuttings over the last two weeks. And now that spring grains are coming off the field, it's the beginning of cover crop season! I could end there, but we do have another important development to discuss. From Peter Landre, Assistant Director for CCE Regional Teams (370 Roberts Hall, Ithaca, NY, 315-694-0969):

Lorsban (chlorpyrifos) Ban in NY

The New York State DEC has adopted changes to the state pesticide registration regulations prohibiting chlorpyrifos in New York State effective July 31, 2021. Notice of the regulation adoption was published in the [State Register](#) July 21, 2021. Additional supporting documents for the regulation change can be found at the [DEC's website](#).

This ban went into effect on July 31. The NYS DEC also cancelled the registrations of most chlorpyrifos products on December 31, 2020 and then cancelled the remaining products on July 31, 2021. As for any remaining grower inventory after July 31, the ***NYS DEC issued an enforcement discretion that will allow possession, transport, storage or handling of open or closed containers of these products for purposes of shipment out of state or for proper disposal and will allow preparation for disposal of these products until February 1, 2022*** or until the Enforcement Discretion for Distribution of Unregistered Products Containing Chlorpyrifos is rescinded by the Department.

More info can be found at: <https://www.dec.ny.gov/chemical/122311.html>.

The NYS DEC also notes that, in addition to pursuing re-distribution of these products out of state or proper disposal, growers may also explore participation in a CleanSweepNY collection event. ***A collection event is planned for October 12 through 14 in DEC's Region 4.*** Check www.cleansweepny.org, email info@cleansweepny.org or call 518-225-8146 for details. DEC is also pursuing potential collections in other locations.

This includes two locations in our CNYDLFC region, and one more to the east of us. You must pre-register (call 518-225-8146 or email info@cleansweepny.org):

Hudson, NY	Tuesday,	October 12, 2021
Fultonville, NY	Wednesday,	October 13, 2021
Oneonta, NY	Thursday,	October 14, 2021

Click to see the latest [Oneida County Scouting Report](#), [Northwest NY Crop Alert](#), [Capital Area Ag Report](#), and [New York State IPM Weekly Field Crops Pest Report \(cornell.edu\)](#)

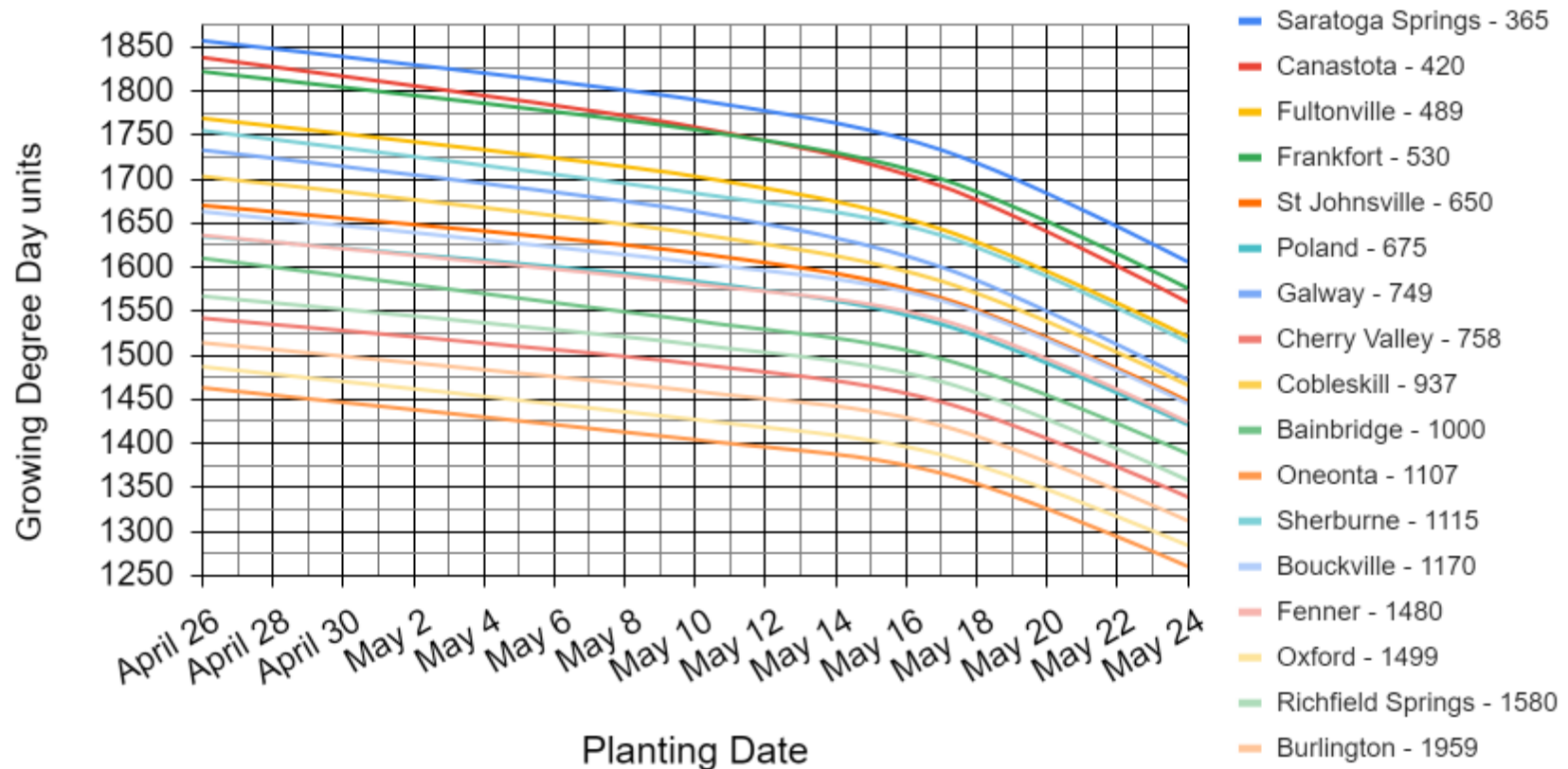
2. Growing Degree Days (GDD) for planting date and silking date ([Climate Smart Farming Growing Degree Day Calculator](#))

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 50F and ceases above 86F. **Silage corn needs 750-800 GDD 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:**

As of: 18 Aug 2021 (Base: 86/50)			Planting Date				Silking Date (750-800 GDD to 32% DM):			
Location	Elevation (ft)	Latitude N	April 26	May 10	May 17	May 24	July 14	July 18	July 22	July 26
Poland	675	43.23	1635	1584	1535	1421	627	548	478	414
Canastota	420	43.08	1857	1790	1733	1606	684	602	524	452
S'toga Springs	365	43.08	1838	1759	1692	1560	704	612	536	464
Frankfort	530	43.03	1822	1756	1700	1576	690	600	525	454
Galway	749	43.02	1733	1663	1600	1472	657	568	493	422
St Johnsville	650	43	1670	1616	1565	1448	639	556	487	423
Fenner	1480	42.97	1636	1581	1540	1424	610	536	468	404
Fultonville	489	42.95	1769	1703	1643	1521	677	588	513	444
Bouckville	1170	42.93	1663	1605	1562	1445	623	543	477	411
R'field Springs	1580	42.85	1567	1512	1470	1358	596	517	453	393
Cherry Valley	758	42.81	1542	1490	1447	1339	587	509	447	389
Burlington	1959	42.72	1514	1459	1420	1312	573	496	435	379
Sherburne	1115	42.69	1755	1684	1636	1515	662	574	504	435
Cobleskill	937	42.68	1703	1638	1584	1466	649	561	491	428
Oneonta	1107	42.47	1463	1404	1366	1260	557	479	419	368
Oxford	1499	42.4	1487	1427	1387	1284	565	484	426	373
Bainbridge	1000	42.3	1610	1539	1496	1388	608	519	455	399

Not everyone planted their corn on one of the planting dates or in one of the locations I have listed, so this chart shows the estimated GDD for each location on each potential planting date in between (based on the actual GDD on those four dates). The locations are ordered top-to-bottom from lowest elevation to highest (the number after the location name is the elevation in feet above sea level). So if your farm is near one of the locations on this list but there's a location here that more closely matches your elevation, try that instead. You can find GDDs for your own specific location and planting date using the [Climate Smart Farming CSF Growing Degree Day Calculator](#), but for those who might have more difficulty using that tool, maybe this chart can help.

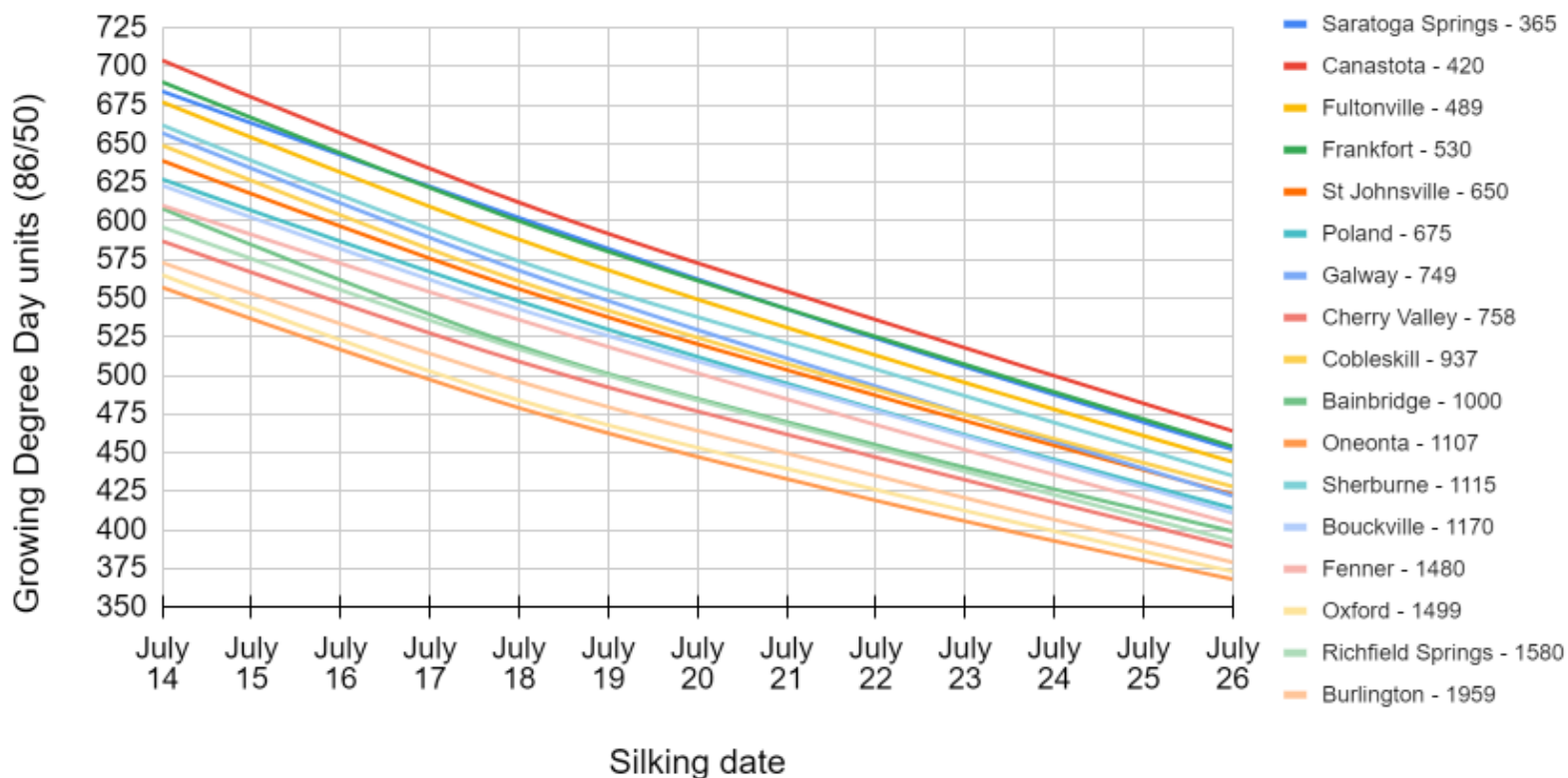
Estimated GDD by planting date for each location



As we get closer to silage harvest, remember that silage corn needs **750-800 GDD after silking** to reach a whole plant DM of 32% (depending on hybrid maturity). Under typical late season dry down conditions we can expect the crop to reach 35% DM four to **seven days later**. When using this chart, remember that actual GDD were calculated for July 14, 18, 22, and 26 silking dates. Dates in-between those four dates are estimates. As always, remember that GDD estimates are good for getting you in the ballpark, but are no substitute for actual conditions in the field.

Folks in northern Madison County are getting closer, though I suspect most in the “warmer” areas of our region will be chopping hybrids that won’t reach 32% until we’re at the high end of the 750-800 range. But be ready...:

Estimated GDD (86/50) by SILKING DATE



3. Pest Monitoring

I only managed to sweep for potato leafhopper on Monday, and counts were low, as they have been for everyone around the state at the moment. We'll see if they rebound next week.

Check out [Potato Leafhopper Scouting and IPM Thresholds in Alfalfa](#)

As I mentioned last week, we are beginning to see the fungal effects of the wet weather in corn and soy foliage, and some soy plant death in areas around the state. **Rotate out of these fields next year if at all possible**, plant resistant varieties, and if those are not possible, protect your beans at the flowering stages.

This looks like the last gasp of this year's western bean cutworm (WBC) (see table). Alternatively, fall armyworm moths have just arrived. So be on the lookout if you're growing sweet corn in particular. Hopefully we don't experience the level of infestation they're seeing now in The South....

Western Bean Cutworm								
Week	Munnsville, Madison	Poland, Herkimer	Canajoharie, Montgomery	C. Bridge, Schoharie	W. Charlton, Saratoga	Cherry Valley, Otsego	Oxford, Chenango	Total
June 21	Traps placed							0
June 21 - 28	0	0	1	0	0	0	0	1
June 28 – July 7	0	0	0	0	0	0	0	0
July 7 - 13	0	2	0	0	1	0	0	3
July 13 - 20	0	7	0	0	14	0	0	21
July 20 - 27	1	66	24	3	90	0	12	196
July 27 – Aug 3	0	38	100	29	107	0	1	275
Aug 3 – 10	0	4	18	4	38	0	9	73
Aug 10 – 17	0	4	4	1	3	0	5	17
Total:	1	121	147	37	253	0	27	586