

Cornell Cooperative Extension

Central New York Dairy, Livestock and Field Crops

Field Crop Update 7 July 2022

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

1. Field Observations

Soybeans are beginning to flower (think about fungicide if you're approaching canopy closure!), winter grains are at/nearing harvest maturity, while our most advanced corn crops are at v10.

Insect pest pressure is still relatively low in all crops, but keep an eye on soybean aphid in untreated beans and potato leafhopper in third-cutting alfalfa. The midsummer stretch will bring us high temperatures and potentially long dry periods, which are prime conditions for insect development.

2. Growing Degree Days as of July 6th (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:***

Planting dates around May 10 are seeing GDD around the 15-yr avg.

Planting dates around May 15-20 are between the 30- and 15-yr avgs.

Planting dates around the latter part of May are seeing GDD right around the 30-yr average.

Good news for haying and harvesting grains, but bad news for growing crops: the forecast looks mild and dry through the weekend.

We may see some thundershowers next Tues/Wed, but so far nothing else on the radar. Watch for insect populations to boom....

As of: 6 July 2022			Planting Date: May 10 (<i>Base 86/50</i>)				Planting Date: May 15 (<i>Base 86/50</i>)			
Location	Elevation (ft)	Latitude N	year to date	15 yr avg	30 yr avg	Record L-H	year to date	15 yr avg	30 yr avg	Record L-H
Poland	675	43.23	772	761	702	593-845	691	723	663	523-833
Canastota	420	43.08	899	871	812	686-997	804	827	766	626-960
Saratoga Springs	365	43.08	899	847	804	686-947	807	803	759	646-894
Frankfort	530	43.03	865	849	794	673-931	777	805	749	611-891
Galway	749	43.02	849	817	777	660-924	763	775	732	620-870
St Johnsville	650	43	782	774	730	621-885	704	737	689	554-835
Fenner	1480	42.97	783	756	685	578-856	697	722	648	524-826
Fultonville	489	42.95	844	842	783	675-940	762	799	739	608-899
Bouckville	1170	42.93	786	758	687	580-844	705	722	649	526-812
Richfield Springs	1580	42.85	750	717	677	570-822	675	682	638	522-775
Cherry Valley	758	42.81	739	705	671	563-827	666	672	634	507-769
Burlington	1959	42.72	735	691	663	561-803	662	657	624	512-758
Sherburne	1115	42.69	830	799	735	620-870	748	760	693	564-842
Cobleskill	937	42.68	844	777	734	611-908	762	739	693	552-847
Oneonta	1107	42.47	719	672	663	541-820	646	638	625	504-771
Oxford	1499	42.4	760	734	687	581-833	680	698	648	532-787
Bainbridge	1000	42.3	788	766	720	611-865	706	728	679	560-799

As of: 6 July 2022			Planting Date: May 20 (<i>Base 86/50</i>)				Planting Date: May 25 (<i>Base 86/50</i>)			
Location	Elevation (ft)	Latitude N	year to date	15 yr avg	30 yr avg	Record L-H	year to date	15 yr avg	30 yr avg	Record L-H
Poland	675	43.23	650	677	624	488-783	577	618	578	433-752
Canastota	420	43.08	754	775	720	575-891	677	705	666	509-825
Saratoga Springs	365	43.08	755	753	716	599-841	682	687	662	527-799
Frankfort	530	43.03	729	753	704	554-844	652	686	650	503-818
Galway	749	43.02	714	728	690	576-816	643	666	638	507-763
St Johnsville	650	43	662	690	648	512-786	590	630	600	461-765
Fenner	1480	42.97	656	679	611	482-773	589	620	567	729
Fultonville	489	42.95	713	749	696	560-842	638	684	644	510-782
Bouckville	1170	42.93	664	678	611	476-766	596	619	565	421-726
Richfield Springs	1580	42.85	636	638	600	468-747	566	583	555	426-725
Cherry Valley	758	42.81	627	630	567	462-734	557	576	553	421-714
Burlington	1959	42.72	623	615	587	463-729	556	561	542	424-707
Sherburne	1115	42.69	703	711	652	511-780	631	649	603	449-755
Cobleskill	937	42.68	713	692	653	502-788	636	633	604	459-748
Oneonta	1107	42.47	607	596	586	461-741	540	544	542	416-720
Oxford	1499	42.4	637	653	609	476-727	570	597	564	424-698
Bainbridge	1000	42.3	661	681	638	502-739	590	623	590	451-712

3. Pest and disease monitoring

A. **Black cutworm (BCW), western bean cutworm (WBC), true armyworm (TAW), and fall armyworm (FAW) in corn.**

This week, trap numbers remained low. Next week will be the first numbers of western bean cutworm and fall armyworm, while we will continue to monitor true armyworm for a few more weeks:

	Trap checked:	27 Jun-5 Jul	
County	Town/Village	BCW	TAW
Madison	Oneida	2	0
Herkimer	Poland	0	0
Montgomery	Canajoharie	2	0
Saratoga	W. Charlton	3	0
Schoharie	Schoharie	0	0
Otsego	Index	1	0
Chenango	Brisben	0	0

B. **Potato leafhopper in alfalfa.**

Many folks have recently taken second cutting, or will very soon.

I will resume monitoring next week.

Not holding my breath for the low numbers to continue!

C. **White mold in soybean**

If your crop is flowering and you're approaching canopy closure (see pic), risk of white mold is currently high.

This pic is a screencap taken from the SporeCaster app, showing canopies at high risk (over) and no risk (under) for white mold.

Download here: <https://ipcm.wisc.edu/apps/sporecaster/>

