

# Cornell Cooperative Extension

## Central New York Dairy, Livestock and Field Crops

Field Crop Update    27 July 2022

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

### 1. Field Observation

All of the corn fields where I have pheromone traps have tasseled within the last 7-9 days. There are a few late plantings that have yet to tassel. Soybean canopy is closing, but other than the usual Japanese beetles and grasshoppers that descend this time of year, I haven't seen many pests as of yet. A few aphids and leafhoppers here and there, but lots of ladybugs and other predators.

Hay production is suffering this year, so consider a triticale winter cover crop that you can use for baleage in spring:

[http://nmisp.cals.cornell.edu/publications/extension/nmisp\\_manager/pd2011Februaryp24-25.pdf](http://nmisp.cals.cornell.edu/publications/extension/nmisp_manager/pd2011Februaryp24-25.pdf)

Conditions were very dry until our recent rainstorms, but the outlook isn't very favorable. Very hot and likely dry through August (see figures below).

Drought-stressed corn that experiences high temps late in the season can actually have *delayed* dry-down according to Joe Lawrence of Dairy One. So while our Growing Degree Day predictions are a good first-step – and they will dictate whether harvest will be relatively early or late – be sure to check dry matters to make sure you're on target.

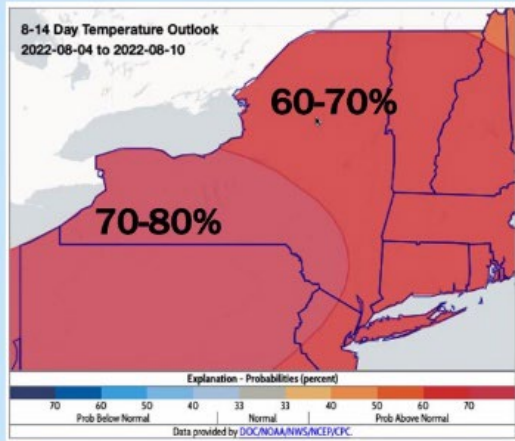
See these articles for more info:

<https://cals.cornell.edu/sites/default/files/2020-10/corn-silage-2019-two-different-crops.pdf>

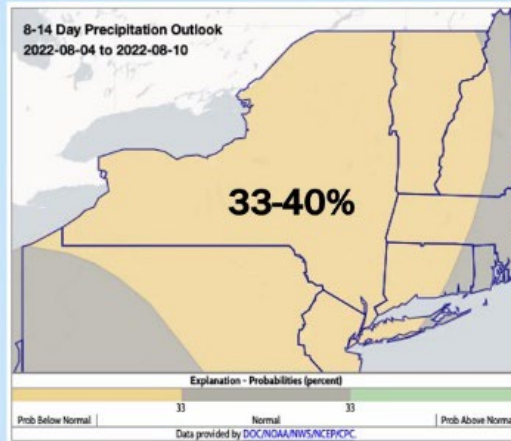
<https://cals.cornell.edu/sites/default/files/2020-10/wet-corn-silage-environmental-challenge.pdf>

# OUTLOOK AUGUST 4-10

**% Chance  
Above-Normal Temperatures**

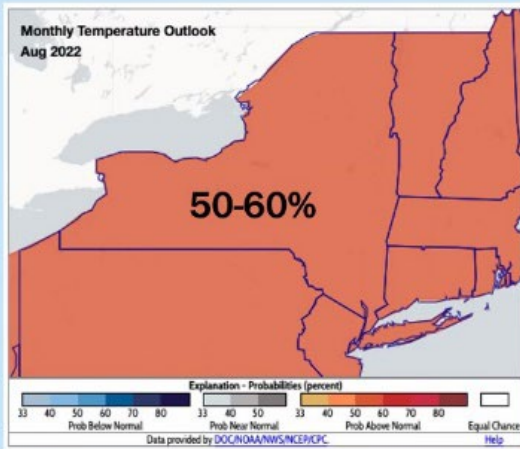


**% Chance  
Below-Normal Precipitation**

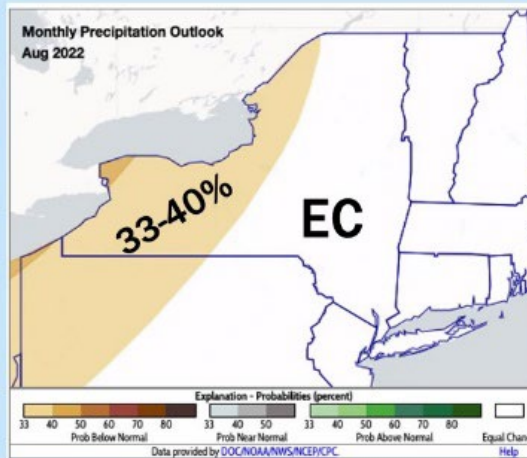


# AUGUST OUTLOOK

**% Chance  
Above-Normal Temperatures**



**% Above-, Below-, Near-Normal  
Chance Precipitation**



2. Growing Degree Days as of July 20<sup>th</sup> (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:**

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	1159	1078	1037	964	201	136	60		
Canastota	420	43.08	1323	1228	1178	1101	223	148	69		
Saratoga Springs	365	43.08	1329	1237	1185	1112	221	146	70		
Frankfort	530	43.03	1286	1198	1150	1073	216	144	67		
Galway	749	43.02	1270	1184	1135	1064	214	143	68		
St Johnsville	650	43	1173	1095	1052	981	204	137	63		
Fenner	1480	42.97	1173	1087	1046	979	207	139	64		
Fultonville	489	42.95	1261	1178	1130	1055	214	143	67		
Bouckville	1170	42.93	1173	1091	1050	982	208	139	65		
Richfield Springs	1580	42.85	1130	1055	1016	946	200	134	62		
Cherry Valley	758	42.81	1118	1045	1005	936	199	134	62		
Burlington	1959	42.72	1104	1031	992	925	197	132	63		
Sherburne	1115	42.69	1221	1139	1094	1023	211	140	67		
Cobleskill	937	42.68	1255	1173	1125	1048	214	143	67		
Oneonta	1107	42.47	1080	1007	968	901	194	130	62		
Oxford	1499	42.4	1140	1060	1017	950	203	136	65		
Bainbridge	1000	42.3	1171	1090	1044	974	204	136	66		

3. Pest and disease monitoring

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

This week, insect numbers increased slightly, but remained **low**. At tasseling, the window of risk for WBCW largely closes, and the cornfields where we saw the highest populations (still very low by damage-causing standards) tasseled last week and there were no egg masses in sight:

	Week of:	25 July		
County	Town/Village	WBCW	TAW	FAW
Madison	Oneida	6		0
Herkimer	Poland	2		0
Montgomery	Canajoharie	1	0	
Saratoga	W. Charlton	12		1
Schoharie	Schoharie	6		0
Otsego	Index	0	0	
Chenango	Brisben	28	0	

**B. *Potato leafhopper in alfalfa.***

Monday's rain got in the way of my sweeping schedule this week, but almost all of my usual fields were either just cut last week, or are due to be cut imminently. So we will check back in with those locations next week:

County	Town/Village	Date	Ht (in)	PLH/sweep	Threshold
Chenango	Guilford	7/26	21	1.1	2*
	*No action needed within a week of harvest				