



Field Crop Finds

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Growing Degree Days

Growing Degree Days (GDD) is calculated by taking the average daily temperature and subtracting it from the base temperature of a specified plant ($(\text{High} + \text{Low})/2 - \text{base temp} = \text{GDD}$). For corn, we use base 86/50, as corn development starts at 50°F and stops at 86°F.

Check your location and planting date:

Location Town	Geography		Cumulative GDD since May 1		Cumulative GDD since May 15	
	Elevation (ft)	Latitude (N)	Current Year	15 Year Avg	Current Year	15 Year Avg
Alden	860	42.91	64	124	6	11
East Aurora	906	42.76	64	125	6	10
Eden	830	42.65	61	125	6	10
East Concord	1430	42.55	53	111	6	9
Angola	667	42.63	65	120	6	10
Fredonia	725	42.44	63	119	5	10
Mayville	1356	42.25	55	111	5	10
Panama	1539	42.07	53	108	6	9
Jamestown	1372	42.09	62	120	7	10
Cherry Creek	1346	42.29	55	117	6	10
Randolph	1286	42.16	55	116	6	10
Cattaraugus	1395	42.33	45	107	5	9
Machias	1673	42.41	54	109	5	9
Olean	1445	42.07	65	124	7	10
Perrysburg	1311	42.45	62	128	6	11
Belfast	1287	42.34	66	122	6	10
Wellsville	1506	42.12	58	108	6	10
Alfred	1804	42.25	61	112	6	10
Canaseraga	1255	42.46	57	108	7	10
Cuba	1496	42.21	57	112	6	10
Hornell	1146	42.32	61	118	8	10
Woodhull	1333	42.07	60	113	7	10
Corning	931	42.14	60	100	9	10
Bath	1106	42.33	62	116	8	10
Hammondsport	754	42.41	63	119	7	11

Last week the temperatures were quite cool, which didn't equate to much GDD accumulation. Currently, GDD accumulation since May 1st is a bit behind the 15-year average. However, with the warm temperatures this past weekend and today, we'll likely see a big jump in next week's accumulations.

Pheromone Traps

	AMW	AMW	AMW	AMW	AMW
	<i>Farmersville</i>	<i>Arkport</i>	<i>Brant</i>	<i>Randolph</i>	<i>Marilla</i>
Week of April 20	0	3	4	X	X
Week of April 27	0	8	16	2	X
Week of May 4	1	11	19	5	35
Week of May 11	1	10	28	17	21

	BCW	BCW	BCW	BCW	BCW
	<i>Farmersville</i>	<i>Arkport</i>	<i>Brant</i>	<i>Randolph</i>	<i>Marilla</i>
Week of April 20	0	2	14	X	X
Week of April 27	9	33	19	20	X
Week of May 4	8	19	23	5	13
Week of May 11	5	51	50	5	35

The cooler weather did not seem to slow down flights this week, as there were significant catches at most locations. For BCW, 90 GDD's is the indicator we use for egg hatch, and based on GDD from May 1st, we're not too far off.

Field Observations

I know you are all taking advantage of this weather before we catch more showers and see lower temperatures later in the week. Triticale has been coming off, and I am starting to see first cutting going into bunks. Insect pressure is beginning to increase throughout the region, as shown by moth flights and scouting efforts. While performing insect sweeps, I was finding alfalfa weevil and some plants with feeding damage. The warmer temperatures we're experiencing are favorable to insect development so regular scouting should be taking place over the next few weeks to protect quality through first cutting harvest and second cutting regrowth. I have also seen early planted corn starting to emerge. Over the next few weeks, we will reach the GDD accumulations for egg hatch of BCW and will start seeing feeding damage on plants.

Stay safe out there!