North Central Cooperative Growing Degree Unit Calculator

Data gathered at ISU Research Farm - Kanawha, Iowa

Compiled by North Central Cooperative

GDU Accumulation 10 year comparison

April 20th thru October 11th

YEAR	GDU's	+/- Avg.	Stress D-Days	+/- Avg.
2018	2970	168	74	21
2017	2709	-93	52	-2
2016	2863	61	36	-18
2015	2773	-29	21	-33
2014	2568	-234	8	-46
2013	2869	67	71	18
2012	2994	192	138	85
2011	2833	31	73	20
2010	3022	220	44	-10
2009	2418	-384	18	-36
Average	2802		54	

2018 Growing Season

Typical GDU's Needed to Reach Maturity

Relative Mat. (days)	GDU's Needed
90-100	2300-2500
100-110	2500-2700
110-120	2700-2800

GDU's accumulated since date of emergence

Date of Emergence

April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GDU's Accumulated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2970	2970	2970	2964	2956	2948	2944	2937	2930	2926	2916

May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
GDU's Accumulated	2899	2882	2877	2871	2860	2846	2833	2818	2800	2791	2784	2784	2784	2779	2768	2753	2735	2715	2695	2683	2678	2670	2654	2633	2607	2581	2556	2531	2504	2479	2457

June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GDU's Accumulated	2434	2409	2393	2378	2360	2337	2311	2288	2266	2241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GDU's Accumulated by Day

April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GDU's by Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	6	8	8	4	7	7	4	10	17

May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
GDU's by Day	17	5	6	11	14	13	15	18	9	7	0	0	5	11	15	18	20	20	12	5	8	16	21	26	26	25	25	27	25	22	23

June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
GDU's by Day	25	16	15	18	23	26	23	22	25	20	19	23	16	18	26	29	30	27	25	21	12	16	18	21	19	19	22	23	28	26

July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
GDU's by Day	18	21	25	28	22	18	19	22	24	24	26	28	26	26	26	23	22	22	22	20	20	20	22	19	19	13	13	14	17	18	18

August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
GDU's by Day	18	15	22	24	22	23	19	20	24	23	21	22	24	23	26	18	22	21	21	14	13	14	14	21	21	24	27	14	11	13	25

September	1	2	3	4	5	6	7	8	9	10	11	12	13	14*	15*	16	17	18	19	20	21	22	23*	24	25	26	27	28	29	30
GDU's by Day	26	23	21	25	13	12	11	12	12	15	19	22	22	25	26	26	25	13	21	24	7	10	14	15	5	7	7	2	0	2
														Killing Frost 2007	Killing Frost 2011								Killing Frost 2012							

October	1	2	3*	4	5	6	7	8	9	10*	11	12*	13*	14*	15	16	17*	18	19	20	21	22	23	24	25	26	27	28	29*	30	31
GDU's by Day	1	3	18	0	2	1	1	6	8	7	0																				
			Killing Frost 2014							Killing Frost 2009		Killing Frost 2008 & 2018	Killing Frost 2016	Killing Frost 2013			Killing Frost 2015										Killing Frost 2017		Killing Frost 2010		