

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 5th

YEAR	GDU's	+/- Avg.	Stress D-Days	+/- Avg.
2010	2926	191	41	2
2009	2405	-330	18	-21
2008	2624	-111	13	-26
2007	3062	327	45	6
2006	2749	14	43	4
2005	2852	117	56	17
2004	2549	-186	11	-28
2003	2613	-122	32	-7
2002	2837	102	73	34
<u>2001</u>	<u>2729</u>	<u>-6</u>	<u>59</u>	<u>20</u>
Average	2735		39	

2010 Growing Season

Typical GDUs Needed to Reach Maturity

Relative Mat. (days)	GDUs 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2926	2916	2904	2892	2887	2876	2875	2874	2868	2859	2840

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	2831	2822	2811	2803	2785	2779	2774	2773	2773	2769	2766	2766	2766	2764	2754	2744	2733	2722	2709	2695	2682	2671	2651	2622	2594	2571	2551	2533	2513	2491	2469

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	2454	2434	2422	2407	2384	2367	2351	2333	2315	2297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	12	12	5	11	1	1	6	9	19	9

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	9	11	8	18	6	5	1	0	4	3	0	0	2	10	10	11	11	13	14	13	11	20	29	28	23	20	18	20	22	22	15

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	20	12	15	23	17	16	18	18	18	16	24	20	14	16	16	18	24	18	17	22	23	25	20	20	23	27	23	16	14	16

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	21	22	27	22	24	26	23	21	22	23	23	19	23	29	23	24	24	24	22	23	22	26	29	21	21	23	29	19	19	22	24

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	25	25	27	27	19	20	25	28	27	28	27	29	30	26	18	16	17	19	26	27	26	26	27	16	11	16	23	24	24	28	26

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	18	15	10	10	15	19	11	12	15	15	14	18	15	16	22	5	11	5	5	19	16	15	15	8	4	9	12	12	16	12

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	13	4	6	8	12																										

Final Entry 2010 Killing Frost 2009 Killing Frost 2008 Killing Frost 2007