

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 September 15th

YEAR	GDUs	+/- Avg.	Stress D-Days	+/- Avg.
2011	2553	54	73	34
2010	2720	221	39	0
2009	2202	-297	18	-21
2008	2346	-153	13	-26
2007	2737	238	41	2
2006	2542	43	39	0
2005	2538	39	48	9
2004	2290	-209	11	-28
2003	2440	-59	32	-7
<u>2002</u>	<u>2623</u>	<u>124</u>	<u>72</u>	<u>33</u>
Average	2499		39	

2011 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

GDUs 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
GDUs Accumulated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2553	2553	2553	2553	2553	2549	2544	2544	2542	2533	

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
GDUs Accumulated	2525	2521	2519	2514	2506	2497	2486	2475	2462	2445	2422	2399	2386	2384	2384	2377	2369	2360	2349	2337	2323	2306	2291	2275	2259	2253	2246	2242	2230	2220	2194

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
GDUs Accumulated	2176	2160	2137	2109	2084	2060	2032	2003	1980	1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GDUs 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
GDUs by Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	4	5	0	0	2	9	8

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
GDUs by Day	4	2	5	8	9	11	11	13	17	23	23	13	2	0	7	8	9	11	12	14	17	15	16	16	6	7	4	12	10	26	18

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
GDUs by Day	16	23	28	25	24	28	29	23	10	8	11	10	13	16	16	20	25	21	23	20	17	14	10	12	15	21	17	16	22	28

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
GDUs by Day	27	24	20	21	21	23	24	23	27	29	26	16	17	20	28	29	31	30	31	30	24	28	28	21	21	27	30	28	25	26	28

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
GDUs by Day	29	29	22	20	25	26	23	23	15	14	15	20	17	17	20	19	19	20	21	18	15	18	25	19	17	22	16	14	16	14	24

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
GDUs by Day	28	26	15	9	10	11	12	15	18	17	18	21	10	5	5															

Killing Frost
2011 Final Entry

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
GDUs by Day																															

Killing Frost 2009
Killing Frost 2008
Killing Frost 2007

Killing Frost 2010