

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 June 23rd

YEAR	GDU's	+/- Avg.	Stress D-Days	+/- Avg.
2019	729	-140	6	-13
2018	1029	160	45	26
2017	854	-15	23	4
2016	895	26	17	-2
2015	814	-55	5	-14
2014	854	-15	5	-14
2013	802	-67	17	-2
2012	1002	133	24	5
2011	809	-60	33	14
2010	<u>902</u>	<u>33</u>	<u>14</u>	<u>-5</u>
Average	869		19	

2019 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	729	716	698	691	683	671	663	658	658	658	652
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	652	652	649	643	633	623	617	608	605	605	599	596	591	583	574	559	537	529	515	511	508	508	500	492	479	465	451	439	435	423	408
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	387	373	360	346	324	301	277	252	228	216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	18	7	8	12	8	5	0	0	6	0
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	0	3	6	10	10	6	9	3	0	6	3	5	8	9	15	22	8	14	4	3	0	8	8	13	14	14	12	4	12	15	21
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	14	13	14	22	23	24	25	24	12	14	12	9	12	17	23	19	17	15	16	16	13	14	19								
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																															
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																															
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																															
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																															

Killing Frost 2007 Killing Frost 2011 Killing Frost 2012

Killing Frost 2014 Killing Frost 2009 Killing Frost 2008 Killing Frost 2016 & 2018 Killing Frost 2015 Killing Frost 2017 Killing Frost 2010