

# 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 July 11th

YEAR	GDU's	+/- Avg.	Stress D-Days	+/- Avg.
2018	1434	187	52	25
2017	1196	-51	27	0
2016	1242	-5	20	-7
2015	1123	-124	5	-22
2014	1196	-51	6	-21
2013	1218	-29	34	7
2012	1432	185	55	28
2011	1205	-42	43	16
2010	1295	48	14	-13
2009	1131	-116	17	-10
Average	1247		27	

## 2018 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																																
	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			
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1434	1434	1434	1428	1420	1412	1408	1401	1394	1390	1380
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	1363	1346	1341	1335	1324	1310	1297	1282	1264	1255	1248	1248	1248	1243	1232	1217	1199	1179	1159	1147	1142	1134	1118	1097	1071	1045	1020	995	968	943	921		
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	898	873	857	842	824	801	775	752	730	705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

### 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	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
GDUs 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	
GDUs 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
GDUs by Day	18	21	25	28	22	18	19	22	24	24	26																				
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																															
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																															
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  
2014

Killing Frost  
2009

Killing Frost  
2008

Killing Frost  
2006

Killing Frost  
2013

Killing Frost  
2015

Killing Frost  
2017

Killing Frost  
2010