

Sherburne Soil and Water Conservation District Ph: (763)241-1170 ext. 4

Crop ET Forecast for August 17th through August 23rd, 2018
8/27/2018

Rain Reports		
7 day rainfall total		0.9
April	3.27	August
May	1.75	September
June	2.57	
July	4.84	
* Rainfall from St. Cloud Airport		

Irrigation Information				
Crop:	Corn	Russets	Reds	Soybeans
Planting Dates:	8-May-18	29-Apr-18	27-Apr-18	8-May-18
Stage of Growth:	early dent	ripening		full pod fill
Allowable Depletion(%):	50%	60%		60%

Climate Information						Daily Evapotranspiration (ET's)					
Day	Daily Temps		Ave. Humidity	Average Wind (MPH)	Solar Radiation (Langley's)	Potential ET	Actual Crop Water Use (inches)				
	High (F)	Low (F)					Corn ET	Russets ET	Reds ET	Soybeans ET	
8/17/2018	85	54	83	2	359	0.17	0.19	0.10	0.00	0.16	
8/18/2018	84	59	85	2.2	394	0.17	0.19	0.10	0.00	0.16	
8/19/2018	82	58	82	3.4	353	0.17	0.19	0.10	0.00	0.16	
8/20/2018	77	61	89	4.7	200	0.12	0.13	0.07	0.00	0.11	
8/21/2018	74	51	84	3.7	243	0.13	0.14	0.07	0.00	0.12	
8/22/2018	80	47	71	3.5	529	0.22	0.24	0.13	0.00	0.21	
8/23/2018	79	47	75	5.3	423	0.21	0.21	0.12	0.00	0.20	
NA = No data available						4 Day Avg	0.17	0.18	0.10	0.00	0.16
						7 Day Total	1.19	1.29	0.68	0.00	1.12
						Running Total	27.99	15.06	15.24	8.96	15.31

Growing Degree Days (GDD's 50/86)				
		Current GDD's	Normal GDD's	Departure from Normal
Starting	April 1	2212	1973	239
Starting	May 1	2091	1851	240

Daily GDD's

8/17/2018	20
8/18/2018	22
8/19/2018	20
8/20/2018	19
8/21/2018	13
8/22/2018	15
8/23/2018	15

Call the Sherburne SWCD at (763)241-1170 ext. 4 to request a weekly summary of the ETs

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Crop ET Forecast for August 24th through August 30th, 2018

8/27/2018

<i>Predicted Evapotranspiration (ET's)</i>					
		Actual Crop Water Use (inches)			
		Corn	*Russets	Reds	Soybeans
Growth stage ->		full dent	ripening	harvest	1st yellow pod
week ->		15	17		15
Allowable depletion ->		55%	60%		60%
Date	Forecasted High Temp [^]	ET	ET	ET	ET
8/24/2018	69	0.09	0.05		0.07
8/25/2018	71	0.11	0.07		0.09
8/26/2018	86	0.14	0.08		0.11
8/27/2018	81	0.14	0.08		0.11
8/28/2018	71	0.11	0.07		0.09
8/29/2018	71	0.11	0.07		0.09
8/30/2018	75	0.11	0.07		0.09

Forecasted Temperatures are taken from the NOAA (National Oceanic and Atmospheric Administration) www.noaa.gov for zip code 55319