

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

Crop ET Forecast for June 29th through July 5th, 2018
7/6/2018

Rain Reports		
7 day rainfall total	2.38	
April	3.27	August
May	1.75	September
June	2.57	
July		
* 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:	11-14 leaf	tuber initiation	tuber initiation	1st bloom
Allowable Depletion(%):	50%	30%	30%	50%

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	
6/29/2018	96.0	73.0	69	7.9	586	0.31	0.20	0.29	0.29	0.24	
6/30/2018	86.0	69.0	79	5.4	385	0.2	0.13	0.19	0.19	0.16	
7/1/2018	73.0	60.0	86	5.7	244	0.12	0.08	0.11	0.11	0.10	
7/2/2018	85.0	62.0	70	6	576	0.26	0.18	0.25	0.25	0.22	
7/3/2018	80.0	67.0	84	7.1	251	0.14	0.10	0.14	0.14	0.12	
7/4/2018	84.0	70.0	83	4.6	327	0.17	0.13	0.17	0.17	0.15	
7/5/2018	80.0	56.0	69	4.8	673	0.27	0.21	0.27	0.27	0.24	
NA = No data available						4 Day Avg	0.21	0.15	0.20	0.20	0.18
						7 Day Total	1.47	1.03	1.41	1.41	1.23
						Running Total	17.52	4.44	6.55	7.20	4.96

Growing Degree Days (GDD's 50/86)				
Starting		Current GDD's	Normal GDD's	Departure from Normal
Starting	April 1	1241	1022	219
Starting	May 1	1120	900	220

Daily GDD's

6/29/2018	30
6/30/2018	28
7/1/2018	17
7/2/2018	24
7/3/2018	24
7/4/2018	27
7/5/2018	18

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 July 6th through July 12th, 2018

7/6/2018

Predicted Evapotranspiration (ET's)					
		Actual Crop Water Use (inches)			
		Corn	*Russets	Reds	Soybeans
Growth stage ->		15+ Leaf	tuber initiation	tuber initiation	full bloom
week ->		7	9	9	9
Allowable depletion ->		40%	30%	30%	40%
Date	Forecasted High Temp [^]	ET	ET	ET	ET
7/6/2018	80	0.18	0.22	0.22	0.22
7/7/2018	83	0.18	0.22	0.22	0.22
7/8/2018	86	0.18	0.22	0.22	0.22
7/9/2018	83	0.18	0.22	0.22	0.22
7/10/2018	85	0.18	0.22	0.22	0.22
7/11/2018	87	0.18	0.22	0.22	0.22
7/12/2018	85	0.18	0.22	0.22	0.22

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