

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

Crop ET Forecast for May 25th through May 31st, 2018  
6/1/2018

<b>Rain Reports</b>		
7 day rainfall total	1.34	
April	3.27	August
May	1.75	September
June		
July		
* Rainfall from St. Cloud Airport		

<b>Irrigation Information</b>				
Crop:	Corn	Russets	Reds	Soybeans
Planting Dates:	8-May-18	29-Apr-18	27-Apr-18	8-May-18
Stage of Growth:	4-5 leaf	7 inches	7 inches	1st tri
Allowable Depletion(%):	70%	50%	50%	60%

<b>Climate Information</b>						<b>Daily Evapotranspiration (ET's)</b>					
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	
5/25/2018	91	65.0	63	8.8	551	0.29	0.07	0.11	0.11	0.06	
5/26/2018	95	59.0	55	5.5	663	0.34	0.10	0.14	0.14	0.08	
5/27/2018	89	54.0	65	6.8	363	0.22	0.06	0.09	0.09	0.05	
5/28/2018	96	63.0	66	6.8	607	0.32	0.10	0.14	0.14	0.08	
5/29/2018	93.0	61.0	78	8.4	513	0.28	0.09	0.13	0.13	0.08	
5/30/2018	76.0	61.0	91	2.9	283	0.12	0.04	0.06	0.06	0.03	
5/31/2018	83.0	58.0	77	6.2	622	0.26	0.09	0.14	0.14	0.08	
NA = No data available						4 Day Avg	<b>0.25</b>	<b>0.08</b>	<b>0.12</b>	<b>0.12</b>	<b>0.07</b>
						7 Day Total	<b>1.83</b>	0.55	0.81	0.81	0.47
						Running Total	<b>10.43</b>	0.83	1.18	1.97	0.72

<b>Growing Degree Days (GDD's 50/86)</b>				
		Current GDD's	Normal GDD's	Departure from Normal
Starting	April 1	577	429	148
Starting	May 1	456	307	149

Daily GDD's

5/25/2018	26
5/26/2018	23
5/27/2018	20
5/28/2018	25
5/29/2018	24
5/30/2018	19
5/31/2018	21

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 June 1st through June 7th, 2018**

6/1/2018

<b><i>Predicted Evapotranspiration (ET's)</i></b>					
		Actual Crop Water Use (inches)			
		Corn	*Russets	Reds	Soybeans
Growth stage ->		6-7 leaf	budding	budding	2nd tri
week ->		4	4	4	3
Allowable depletion ->		60%	50%	50%	60%
Date	Forecasted High Temp <sup>^</sup>	ET	ET	ET	ET
6/1/2018	76	0.07	0.11	0.11	0.07
6/2/2018	69	0.06	0.08	0.08	0.05
6/3/2018	72	0.07	0.11	0.11	0.07
6/4/2018	79	0.07	0.11	0.11	0.07
6/5/2018	81	0.09	0.14	0.14	0.10
6/6/2018	81	0.09	0.14	0.14	0.10
6/7/2018	80	0.09	0.14	0.14	0.10

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