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

Crop ET Forecast for August 18 through August 24, 2017
8/25/2017

Rain Reports

7 day rainfall total *0.09*

April	3.27	August	
May	4.44	September	
June	3.58		
July	2.38		

* Rainfall from St. Cloud Airport

Irrigation Information

Crop:	Corn	Russets	Reds	Soybeans	Green Beans
Planting Dates:	23-Apr-17	17-Apr-17	12-Apr-17	23-Apr-17	15-May-17
Stage of Growth:	early dent	ripening	harvest	full pod fill	harvest
Allowable Depletion(%):	50%	50%	8/3/2017	60%	7/19/2017

Climate Information

Day	Daily Temps High (F)	Daily Temps Low (F)	Ave. Humidity	Average Wind (MPH)	Solar Radiation (Langleys)
8/18/2017	75.0	56.0	89	3.2	280
8/19/2017	80.0	52.0	80	2.8	546
8/20/2017	79.0	57.0	84	3.6	420
8/21/2017	72.0	55.0	90	4	160
8/22/2017	73.0	55.0	67	7.5	536
8/23/2017	75.0	47.0	72	3.9	544
8/24/2017	71.0	49.0	75	4.8	461

NA = No data available

Daily Evapotranspiration (ET's)

Actual Crop Water Use (inches)

Day	**Potential ET**	Corn ET	Russets ET	Reds ET	Soybeans ET	Green Beans ET
8/18/2017	0.13	0.14	0.10	0.00	0.12	0.00
8/19/2017	0.2	0.21	0.15	0.00	0.19	0.00
8/20/2017	0.18	0.19	0.13	0.00	0.17	0.00
8/21/2017	0.1	0.10	0.07	0.00	0.09	0.00
8/22/2017	0.2	0.20	0.14	0.00	0.19	0.00
8/23/2017	0.21	0.21	0.15	0.00	0.20	0.00
8/24/2017	0.18	0.18	0.12	0.00	0.17	0.00
4 Day Avg	**0.17**	**0.17**	**0.12**	**0.00**	**0.16**	**0.00**
7 Day Total	**1.20**	1.23	0.87	0.00	1.13	0.00
Running Total	**26.89**	16.04	15.38	12.97	15.52	7.62

Growing Degree Days (GDD's 50/86)

		Current GDD's	Normal GDD's	Departure from Normal
Starting	April 1	1837	1990	-153
Starting	May 1	1725	1868	-143

	Daily GDD's
8/18/2017	16
8/19/2017	16
8/20/2017	18
8/21/2017	14
8/22/2017	14
8/23/2017	13
8/24/2017	11

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 25th through August 31, 2017

Predicted Evapotranspiration (ET's)						
		Actual Crop Water Use (inches)				
		Corn	*Russets	Reds	Soybeans	Green Beans
Growth stage ->		full dent	ripening	harvest	1st yellow pod	
	week ->	15	15		15	
Allowable depletion ->		55%	60%		60%	
Date	Forecasted High Temp ˇ	ET	ET	ET	ET	ET
8/25/2017	67	0.09	0.07		0.07	
8/26/2017	68	0.09	0.07		0.07	
8/27/2017	72	0.11	0.09		0.09	
8/28/2017	75	0.11	0.09		0.09	
8/29/2017	77	0.11	0.09		0.09	
8/30/2017	78	0.11	0.09		0.09	
8/31/2017	76	0.11	0.09		0.09	

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