

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

8/18/2015

Rain Reports		
7 day rainfall total .61" (Aug 10 - Aug 16)		
April	1.19	August
May	6.19	September
June	4.4	October
July	6.4	
* Rainfall from St. Cloud Airport		

Irrigation Information					
Crop:	Corn	Russets	Reds	Soybeans	Green Beans
Planting Dates:	8-May-15	27-Apr-15	15-Apr-15	11-May-15	8-Jun-15
Stage of Growth:	Hard Dough	Ripening	Harvest	Full Pod Fill	Harvest
Allowable Depletion(%):	45%	50%	0%	60%	0%

Climate Information

Daily Evapotranspiration (ET's)

Day	Daily Temps		Humidity		Solar Radiation (Langley's)	Average Wind (MPH)	Potential ET	Actual Crop Water Use (inches)				
	High (F)	Low (F)	High(%)	Low(%)				Corn ET	Russets ET	Reds ET	Soybeans ET	Green Beans ET
8/10/2015	79.7	61.5	99	48	574	2.7	0.19	0.21	0.18	0.00	0.19	0.00
8/11/2015	81.9	57.7	100	41	604.4	1.2	0.19	0.21	0.17	0.00	0.19	0.00
8/12/2015	84.2	59.9	100	58	592.8	1.9	0.20	0.22	0.18	0.00	0.20	0.00
8/13/2015	81.7	69.1	97	69	304.9	2.4	0.13	0.14	0.12	0.00	0.13	0.00
8/14/2015	91.4	65.3	100	55	554.2	1.1	0.20	0.22	0.18	0.00	0.19	0.00
8/15/2015	86.4	68.7	100	55	556	2.4	0.21	0.23	0.18	0.00	0.20	0.00
8/16/2015	80.1	63.7	98	79	152.2	2.2	0.07	0.07	0.06	0.00	0.07	0.00
NA = No data available						4 Day Avg	0.15	0.17	0.13	0.00	0.15	0.00
						7 Day Total	1.19	1.31	1.07	0.00	1.16	0.00
						Running Total	21.96	15.18	14.17	13.81	12.93	6.41

Growing Degree Days (GDD's 50/86)				
		Current GDD's	Normal GDD's	Departure from Normal
Starting	April 1	1996	1851	145
Starting	May 1	1833	1729	104

Daily GDD's

8/10/2015	21
8/11/2015	20
8/12/2015	22
8/13/2015	25
8/14/2015	26
8/15/2015	27
8/16/2015	22

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

Sherburne Soil and Water Conservation District Ph: (763)241-1170 ext. 3

Crop ET Forecast for Aug 10 - Aug 16 2015

Predicted Evapotranspiration (ET's)						
		Actual Crop Water Use (inches)				
		Corn	*Russets	Reds	Soybeans	Green Beans
Growth stage ->		Hard Dough	Ripening	Harvest	Full Pod Fill	Harvest
week ->		15	13	0	13	0
Allowable depletion ->		45%	50%	0%	60%	0%
Date	Forecasted High Temp °	ET	ET	ET	ET	ET
8/17/2015	82	0.14	0.16	0.00	0.16	0.00
8/18/2015	74	0.11	0.13	0.00	0.13	0.00
8/19/2015	69	0.09	0.11	0.00	0.10	0.00
8/20/2015	73	0.11	0.13	0.00	0.13	0.00
8/21/2015	81	0.14	0.16	0.00	0.16	0.00
8/22/2015	79	0.11	0.13	0.00	0.13	0.00
8/23/2015	69	0.09	0.11	0.00	0.10	0.00

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

* Data provided for russet potatoes is based off of early russets planted April 27th.