

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

8/31/2015

| Rain Reports | | |
|---|------|-----------|
| 7 day rainfall total .31" (Aug 24 - Aug 30) | | |
| 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: | Full Dent | Harvest | Harvest | 1st Yellow Poc | Harvest |
| Allowable Depletion(%): | 55% | 0% | 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 |
| 8/24/2015 | 66.9 | 52.5 | 81 | 42 | 435.7 | 6.8 | 0.18 | 0.18 | 0.00 | 0.00 | 0.17 | 0.00 |
| 8/25/2015 | 73.8 | 46.2 | 99 | 38 | 568.1 | 3.5 | 0.16 | 0.15 | 0.00 | 0.00 | 0.14 | 0.00 |
| 8/26/2015 | 75.4 | 44.4 | 100 | 35 | 509.6 | 0.8 | 0.13 | 0.12 | 0.00 | 0.00 | 0.11 | 0.00 |
| 8/27/2015 | 75.9 | 57.9 | 96 | 61 | 374.7 | 2.7 | 0.13 | 0.12 | 0.00 | 0.00 | 0.11 | 0.00 |
| 8/28/2015 | 79.3 | 57.6 | 100 | 58 | 439.2 | 2.1 | 0.13 | 0.12 | 0.00 | 0.00 | 0.11 | 0.00 |
| 8/29/2015 | 73.8 | 54 | 100 | 67 | 413.8 | 1.5 | 0.11 | 0.10 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8/30/2015 | 80.4 | 58.6 | 100 | 62 | 436 | 2.6 | 0.13 | 0.11 | 0.00 | 0.00 | 0.10 | 0.00 |
| NA = No data available | | | | | | 4 Day Avg | 0.13 | 0.11 | 0.00 | 0.00 | 0.10 | 0.00 |
| | | | | | | 7 Day Total | 0.97 | 0.91 | 0.00 | 0.00 | 0.84 | 0.00 |
| | | | | | | Running Total | 23.74 | 16.92 | 14.74 | 13.81 | 14.53 | 6.41 |

| Growing Degree Days (GDD's 50/86) | | | | |
|--|---------------|--------------|-----------------------|--|
| Starting | Current GDD's | Normal GDD's | Departure from Normal | |
| April 1 | 2197 | 2082 | 115 | |
| May 1 | 2034 | 1960 | 74 | |

Daily GDD's

| | |
|-----------|----|
| 8/24/2015 | 10 |
| 8/25/2015 | 12 |
| 8/26/2015 | 13 |
| 8/27/2015 | 17 |
| 8/28/2015 | 18 |
| 8/29/2015 | 14 |
| 8/30/2015 | 20 |

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 Aug 10 - Aug 16 2015

| Predicted Evapotranspiration (ET's) | | | | | | |
|--|------------------------|--------------------------------|----------|---------|---------------|-------------|
| | | Actual Crop Water Use (inches) | | | | |
| | | Corn | *Russets | Reds | Soybeans | Green Beans |
| Growth stage -> | | Early Dent | Harvest | Harvest | Full Pod Fill | Harvest |
| week -> | | 17 | 0 | 0 | 15 | 0 |
| Allowable depletion -> | | 50% | 0% | 0% | 60% | 0% |
| Date | Forecasted High Temp ° | ET | ET | ET | ET | ET |
| 8/31/2015 | 83 | 0.09 | 0.00 | 0.00 | 0.11 | 0.00 |
| 9/1/2015 | 84 | 0.09 | 0.00 | 0.00 | 0.11 | 0.00 |
| 9/2/2015 | 86 | 0.09 | 0.00 | 0.00 | 0.11 | 0.00 |
| 9/3/2015 | 85 | 0.09 | 0.00 | 0.00 | 0.11 | 0.00 |
| 9/4/2015 | 84 | 0.09 | 0.00 | 0.00 | 0.11 | 0.00 |
| 9/5/2015 | 83 | 0.09 | 0.00 | 0.00 | 0.11 | 0.00 |
| 9/6/2015 | 78 | 0.07 | 0.00 | 0.00 | 0.09 | 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.