

**UNIVERSITY OF MINNESOTA  
SOUTHERN RESEARCH AND OUTREACH CENTER  
35838 120TH STREET  
WASECA, MN 56093-4521**

**2012 SUMMARY**

Month	Avg. Air	HDD <sup>1/</sup>	GDU <sup>2/</sup>	Precip	Snow	Evap. <sup>3/</sup>	Avg. Soil Temp.					Solar Radiation Langley's
	Temp. -°F -						2"	4"	8"	20"	40"	
Jan	21.4	1353.0		0.79	8.3		26.6	27.6	26.8	34.1	39.3	4625
Feb	26.3	1123.0		2.29	2.9		28.0	28.4	27.2	32.0	36.5	6070
Mar	47.1	565.5		1.93	0.9		46.2	-	-	39.2	39.0	9085
Apr	47.7	518.0		3.08	0.0		52.6	50.8	50.5	49.7	47.7	12219
May	62.7		409.5	5.74		8.45	66.8	63.8	61.7	58.8	54.0	15438
Jun	69.8		584.5	4.25		6.88	75.2	72.1	69.9	66.4	61.2	17210
Jul	76.8		790.5	2.10		8.05	85.5	82.1	79.7	75.9	69.4	17670
Aug	68.5		577.0	1.45		5.62	78.3	76.0	74.5	73.1	69.9	15169
Sept	59.7		325.5	0.94		6.41	68.5	67.7	67.6	68.1	67.5	12928
Oct	45.3		0.0	1.38	0.0		51.1	52.3	53.7	56.2	59.2	6722
Nov	35.5	884.5		0.64	0.2		38.7	40.4	42.3	45.4	50.5	4814
Dec	21.6	1350.5		1.76	11.9		31.5	33.7	35.2	38.5	44.3	3589
Year	48.5	5794.5	2687.0	26.35	24.2	35.41	54.1	54.1	53.6	53.1	53.2	125539
Departure <sup>4/</sup> from normal	+3.5	-1165.5	+197.0	-9.37	-28.6	+0.20	+5.0	+57.2	+5.6	+3.5		+4994

<sup>1/</sup> Heating degree days based on 65° F. Total and departure excludes May - Sept.

<sup>2/</sup> Based on the 50° - 86° F range from May 1 to the first fall frost (September 23).

<sup>3/</sup> Departure from normal based on evaporation from May 1 - September 30 (35.21").

<sup>4/</sup> Based on 1981-2010 Normal for air temperature, growing degree units (GDU), precipitation, snow, and evaporation. Solar radiation based on 1972-2010 averages .