

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

2018 SUMMARY

Month	Avg. Air Temp. -°F -	HDD ^{1/}	GDU ^{2/}	Precip	Snow	Evap. ^{3/}	Avg. Soil Temp.					Solar Radiation Langley's
							2"	4"	8"	20"	40"	
				----- inches -----		----- °F -----						
Jan	10.9	1676.0		1.84	18.9		26.9	27.3	28.7	31.8	38.2	4864
Feb	11.0	1512.0		1.16	12.8		27.9	28.4	29.6	31.1	36.3	6744
Mar	29.1	1114.0		1.16	7.1		31.5	31.3	31.2	32.0	35.8	9953
Apr	33.1	903.0		3.52	22.9		36.3	35.6	34.6	34.2	36.1	13225
May	65.2		467.5	5.28		7.30	63.5	60.6	60.4	56.1	48.4	13872
Jun	70.8		608.0	5.78		6.50	70.7	69.0	69.1	66.3	59.9	12607
Jul	71.1		647.0	4.38		7.10	76.9	75.0	75.6	72.9	66.4	16493
Aug	69.3		598.5	4.79		5.25	73.2	72.2	72.9	71.9	68.1	12410
Sept	64.0		454.0	10.54		4.24	65.7	65.4	66.2	66.8	66.2	9325
Oct	43.5		0.0	3.16	2.0		46.2	47.1	48.4	51.7	56.8	5848
Nov	24.5	1216.0		1.34	4.0		34.4	36.2	37.3	41.3	48.2	3640
Dec	22.8	1307.0		2.10	7.2		31.3	32.4	33.0	35.8	41.7	3146
Year	42.9	7728.0	2775.0	45.05	74.9	30.39	48.7	48.4	48.9	49.3	50.2	112127
Departure ^{4/} from normal	-2.1	768.0	285.0	9.33	22.1	-4.82	-0.4	-0.5	0.9	-0.3		-8418

^{1/} Heating degree days based on 65° F. Total and departure excludes May - Oct.

^{2/} Based on the 50° - 86° F range from May 1 to the first fall frost (September 30th).

^{3/} Departure from normal based on evaporation from May 1 - September 30 (35.21").

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