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## Weather Information for Garden City, 2021

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## Weather Information for Garden City, 2021

### Abstract

Summary of 2021 weather for research conducted at the Garden City Kansas Agricultural Experiment Station field location.

### Keywords

Garden City weather, 2021 weather, western Kansas weather report

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## Weather Information for Garden City, 2021

*E. Russell*

Precipitation in Garden City, KS, for 2021 totaled 16.34 inches. This was 2.9 inches below the 30-year average of 19.24 inches. From January through the end of June, the station received 11.03 inches, which was 0.87 inches above normal for that point in the year, resulting in ideal spring planting conditions. No significant hail was witnessed in 2021. The largest precipitation amounts were 6.29 inches recorded in May, 1.37 inches in June, and 2.54 inches in September. Although good moisture was recorded during these months, the second half of the year was significantly below the 30-year average precipitation, resulting in a 4.57-inch deficit. The spacing of the rains through the summer months, however, helped in watering the fall crops.

Measurable snowfall for the year totaled 7.70 inches; January, February, and April had 3.80, 1.40, and 2.50, respectively. There was a total of eleven days of snow cover. The longest consecutive period of snow cover, five days, occurred February 7 through February 11.

Average daily windspeed was 4.94 mph compared to the 30-year average of 4.20 mph. Open pan evaporation was measured daily from April through October and totaled 84.80 inches. This was 14.54 inches above the 30-year mean of 70.26 inches.

Our mean annual temperature was 55.5°F compared to the 30-year average of 53.7°F. Triple-digit temperatures were experienced in June, July, August and September. The longest consecutive run of triple-digit days was observed from June 17 through June 21 with an average temperature being 104.4°F. August 25 exhibited the highest temperature of 108°F. Sub-zero temperatures were observed in both January and February with -6°F and -20°F respectively.

Table 1. 30-year averages are for the period 1981-2010

Month	Precipitation		Temperatures						Wind, mph		Evaporation, inches	
	2021	Average	2021 Average			2021 Extremes			2021	Average	2021	Average
		81-10	Max	Min	Mean	Average	Max	Min		81-10		81-10
January	0.25	0.46	48.4	18.1	33.3	30.4	70	-6	4.41	4.5	n/a	n/a
February	0.08	0.55	38.9	11.0	24.9	33.9	75	-20	3.90	5.24	n/a	n/a
March	2.44	1.31	60.0	29.8	44.9	42.9	88	10	6.74	6.31	n/a	n/a
April	0.60	1.74	66.6	34.0	50.3	52.3	90	22	6.01	6.42	8.89	8.21
May	6.29	2.98	74.7	49.7	59.9	62.8	91	35	5.90	5.76	10.00	10.04
June	1.37	3.12	90.8	60.6	75.7	72.6	106	50	4.41	5.37	12.82	11.96
July	0.80	2.8	93.1	64.1	78.6	77.9	101	54	4.68	4.59	14.91	13.22
August	0.77	2.51	95.9	64.4	80.1	76.3	108	56	5.93	4.11	16.43	11.28
September	2.54	1.42	90.5	57.2	73.9	67.7	104	39	5.82	4.73	13.27	9.22
October	0.98	1.21	75.1	41.0	58.0	54.9	91	28	4.91	4.89	8.48	6.33
November	0.22	0.55	62.6	31.2	46.9	41.6	86	15	4.55	4.8	n/a	n/a
December	0.00	0.59	58.0	21.2	39.6	31.4	80	8	4.94	4.45	n/a	n/a
Annual	16.34	19.24	71.2	40.2	55.5	53.7	108	-20	5.18	5.10	84.80	70.26
		Average	2021									
Latest spring freeze		April 29	April 22									
Earliest fall freeze		October 12	October 16									
Frost free period		165 days	160 days									