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## Weather Information for Garden City

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## Weather Information for Garden City

### Abstract

Garden City, Kansas: Precipitation for 2014 totaled 23.29 in. This was 4.05 in. above the 30-year average of 19.24 in. This was the first year since 2009 with above-normal precipitation and the highest level since 24.69 in. in 2004.

### Keywords

weather, rain, snowfall, temperatures

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## Weather Information for Garden City

*J. Elliott*

Precipitation for 2014 totaled 23.29 in. This was 4.05 in. above the 30-year average of 19.24 in. This was the first year since 2009 with above-normal precipitation and the highest level since 24.69 in. in 2004. Blowing dust was recorded on several days through April. Although each of the first five months was below the mean, June precipitation was 10.50 in., which was not only the wettest June but the wettest month since records began in 1908. Minimal pea-size hail was recorded on June 4, and heavy pea-size hail was observed on June 25, resulting in localized damage to crops and trees. The greatest daily rainfall was 3.69 in. on June 28, which was the third highest single-day precipitation on record.

Measurable snowfall occurred in each of the first four months of the year as well as in November and December. Annual snowfall totaled 20.53 in. compared to an average of 19.70 in. The largest event was 3.5 in. recorded on February 5. Seasonal snowfall (2013–2014) was 19.53 in.

Average daily wind speed was 5.26 mph compared to the 30-year average of 5.10 mph. Open pan evaporation was measured daily from April through October and totaled 75.73 in. This was 5.47 in. above the 30-year mean of 70.26 in.

Mean annual temperature was 53.5°F, which was very near the 30-year average of 53.7°F. Triple-digit temperatures were observed on 12 days in 2014, with the highest being 104°F on July 26. Seven record high temperatures were equaled or exceeded in 2014: 89°F on April 13, 92°F on April 27, 96°F on May 5, 88°F on October 25, 90°F on October 26, 74°F on November 29, and 79°F on November 30.

Sub-zero temperatures occurred 8 times in 2014. The lowest temperature was -12°F on January 6. Four record low temperatures were equaled or set in 2014: 26°F on May 2, 55°F on July 17, 0°F on November 14, and 7°F on November 17.

The last spring freeze was 32°F on May 15, which was 16 days later than the 30-year average. The first fall freeze was 31°F on October 31, which was 19 days later than normal. This resulted in a 169-day frost-free period, which is four days longer than the 30-year average.

The 2014 climate information for Garden City is summarized in Table 1.

**Table 1. Climate data, Southwest Research-Extension Center, Garden City, Kansas.**

Month	Precipitation		Monthly temperatures						Wind		Evaporation	
	2014	avg.	2014 avg.			30-year avg.	2014 extreme		2014	30-year avg.	2014	30-year avg.
			Max	Min	Mean		Max	Min				
	in.		°F						mph		in.	
January	0.12	0.46	46.5	13.8	30.2	30.4	71	-12	4.85	4.50	--	--
February	0.38	0.55	40.6	14.7	27.7	33.9	73	-8	5.64	5.24	--	--
March	0.25	1.31	56.5	23.2	39.9	42.9	82	-8	6.61	6.31	--	--
April	0.69	1.74	68.0	36.2	52.1	52.3	92	22	7.18	6.42	9.29	8.21
May	0.63	2.98	80.5	46.0	63.3	62.8	99	26	*4.57	5.76	11.38	10.04
June	10.50	3.12	87.6	59.5	73.6	72.6	102	47	*7.23	5.37	14.35	11.96
July	3.81	2.80	90.0	63.1	76.6	77.9	104	55	5.19	4.59	12.66	13.22
August	1.99	2.51	93.0	63.4	78.2	76.3	101	57	3.91	4.11	13.01	11.28
September	2.71	1.42	83.2	54.6	68.9	67.7	101	36	5.04	4.73	8.86	9.22
October	1.78	1.21	74.8	42.6	58.7	54.9	90	31	3.54	4.89	6.18	6.33
November	0.03	0.55	55.7	22.7	39.2	41.6	80	0	4.83	4.80	--	--
December	0.40	0.59	45.3	22.3	33.8	31.4	65	-2	4.49	4.45	--	--
Annual	23.29	19.24	68.5	38.5	53.5	53.7	104	-12	5.13	5.10	75.73	70.26

Normal latest spring freeze (32°F): April 29. In 2014: May 15.

Normal earliest fall freeze (32°F): Oct. 12. In 2014: Oct 31.

\* Anemometer not working May and June: Wind estimated using alternate anemometer.

Normal frost-free period (>32°F): 165 days. In 2014: 169 days.

30-year averages are for the period 1981–2010. All recordings were taken at 8 a.m.