



Weather & Climate Summary Yukon-Charley Rivers National Preserve Fall 2017

Fall Weather 2017

In September, the monthly average temperature at Eagle was 45.4°F, which is 3.6°F warmer than normal. The high temperature for the month was 66°F on the 1st and the low temperature was just 3 days later, 26°F on the 4th. Total rainfall for the month was 1.46 inches; normal is 1.31 inches. Twelve days in September had measurable rainfall amounts (> 0.01 inches) and a trace of snow fell on the 30th.

The average monthly temperature for October was warmer than normal with average precipitation. The monthly average temperature was 7.2°F warmer than normal at 30.2°F. The low temperature for the month was -6°F on October 21. Precipitation occurred on 13 days in October, totaling 1.00 inches of water in 5 inches of snow. Normal snowfall is 11.1 inches.

November was cooler than normal with slightly above-normal precipitation. The average monthly temperature of 0.7°F was 2.3°F below the 1981-2010 normal. Temperatures climbed as high as 35°F on November 2 and dipped down to -36°F on the 21st. The November snowfall total was 7.9 inches, only 65% of normal. Precipitation (water equivalent) was 56% of normal for the month.

The average fall temperature was 25.4°F, 2.8°F warmer than normal. Snowfall was only 53% of normal for the season. A total of 2.87 inches of precipitation (water equivalent) fell during the fall, which is 96% of normal (see Figures 1 and 2; Table 1, 2, and 3).

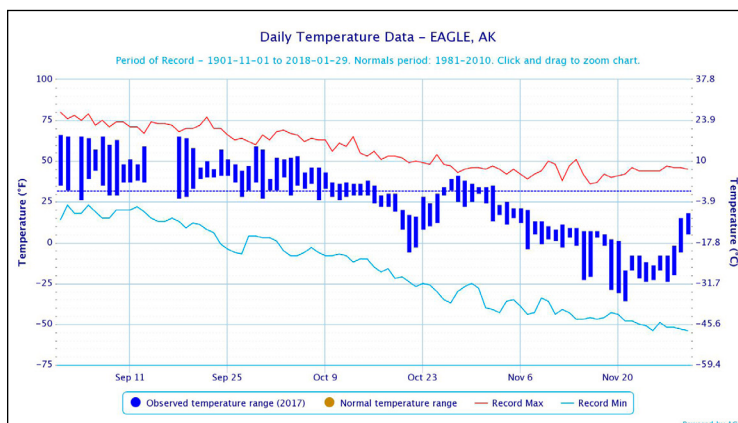


Figure 1. Fall 2017 daily temperatures at Eagle showing record maximum (red), record minimum (blue), and observed range (blue bars).

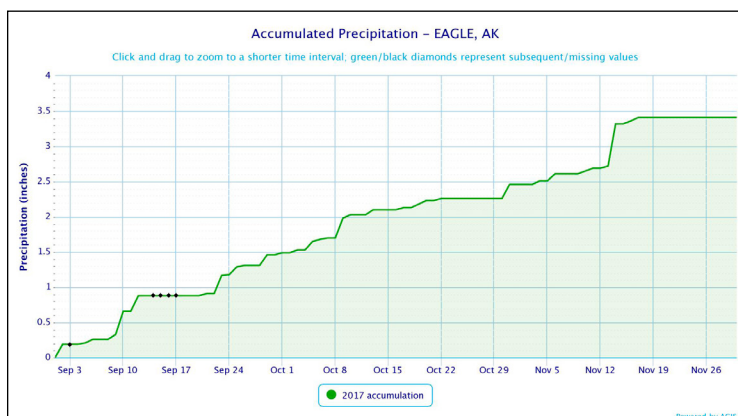


Figure 2. Fall 2017 accumulated precipitation at Eagle.

Table 1. Temperature: Fall 2017 average monthly temperatures compared to the 1981-2010 normal.

Fall 2017	Average Monthly Temp (°F)	1981-2010 Normal (°F)	Departure from Normal (°F)	Monthly High (°F / Date)	Monthly Low (°F / Date)
September	45.4	41.8	+3.6	66 / Sept. 1	26 / Sept. 4
October	30.2	23.0	+7.2	53 / Oct. 5	-6 / Oct. 21
November	0.7	3.0	-2.3	35 / Nov. 2	-36 / Nov. 21

Fall Season Temperature Departure from Normal: + 2.8 °F

Table 2. Precipitation: Fall 2017 monthly precipitation totals compared to normal.

Fall 2017	Total Monthly Precip. (in.)	1981-2010 Normal (in.)	Departure from Normal (in.)	Greatest 24 -hr. total (in. / Date)	# Days with >=0.01 in. water
September	1.46	1.31	+0.15	0.33 / Sept. 10	12
October	1.00	0.95	+0.05	0.28 / Oct. 9	13
November	0.41	0.73	-0.32	0.60 / Nov. 14	8

Fall Season Precipitation Departure from Normal: -0.12 inches (96% of normal)

Table 3. Snowfall: Fall 2017 monthly snowfall totals compared to normal.

Fall 2017	Total Monthly Snowfall (in.)	1981-2010 Normal (in.)	Departure from Normal (in.)	Greatest 24-hr snow-fall total (in. / Date)	Seasonal Cumulative Snowfall (in.)
September	Trace	1.3	-1.3	T / Sep 30	Trace
October	5.0	11.1	-6.1	2.0 / Oct. 31	5.0
November	7.9	12.1	-4.2	2.5 / Nov. 6	12.9

Climate Monitoring in Yukon-Charley Rivers

The NPS climate stations in Yukon-Charley Rivers have been in operation for a decade (Figure 3). The Coal Creek and Upper Charley stations complement long-term records available from the National Weather Service station in Eagle.

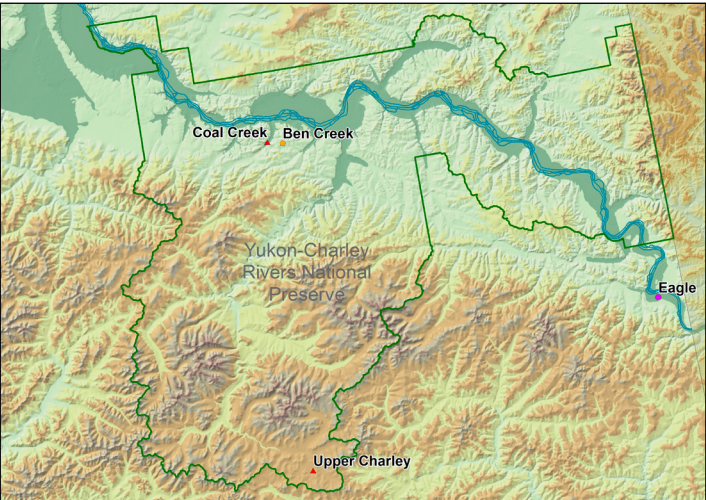


Figure 3. NPS climate stations in Yukon-Charley Rivers N. Pres.

Featured Station: American Creek SNOTEL

The American Creek SNOTEL station was installed in 2011 (Figure 4). This new station replaced the Mission Creek station which was damaged during the 2009 breakup floods. The lowest temperature recorded at American Creek over the past eight years is -59°F in 2012. For reference, the lowest temperature recorded at the long-term Cooperative Observing site in Eagle in 2012 was -58°F and the record minimum is -71°F in 1952.

The American Creek site is one of the few stations in the region which records year-round precipitation, including snow depth and snow water equivalence. Data are transmitted hourly and available at the Natural Resources Conservation Service.



Figure 4. American Creek SNOTEL station. The gage on the right measures precipitation year-round. Sensors on the tower on the left measure snow depth, temperature, and rainfall.

More Information

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