



Weather & Climate Summary Yukon-Charley Rivers National Preserve Fall 2019

Fall colors on the tundra floor. NPS photo.

Eagle Fall Weather 2019

Highlights: It was a warm, wet fall for Eagle. Long-term climate records from Eagle allow us to put the fall of 2019 into context. In Eagle, fall temperatures were warmer than normal and the seasonal precipitation total (rain and melted snow) was above normal. The snowfall total for the fall season was well above normal, thanks to abundant snow in November.

September was warmer than normal in Eagle. The average temperature was 45.5°F compared to a normal of 41.8°F. There were two new record high temperatures recorded on September 8th at 75°F and September 13th at 68°F. A total of 1.39 inches of rain fell in September, which is 0.08 inches above normal.

Warm temperatures continued into October and the month ended up +6.1°F warmer than normal at 29.1°F. The monthly snowfall total was 10.0 inches. Most of the snow fell during the second week of the month, but it didn't stick around for long. There was only a trace of snow left on the ground at the end of the month thanks to warm (above freezing) temperatures during the last four days of the month.

November temperatures remained on the warm side with an average monthly temperature that was +7.8°F warmer than normal. Interestingly, this October didn't make the top 20 warmest on record (it was the 21st warmest). November snowfall was abundant! A total of 27.5 inches fell during the month, more than twice as much as normal. It was the 2nd snowiest November on record (with 84 years of good observations).

The average temperature for the fall season was 28.5°F, which is +5.9°F above the 1981-2010 normal. The total fall precipitation total was 4.11 inches, 137% of normal. The snowfall total for the early season (July 1 to Nov 30) was 37.5 inches; 153% of normal. (Figures 1 and 2; Table 1, 2, and 3).

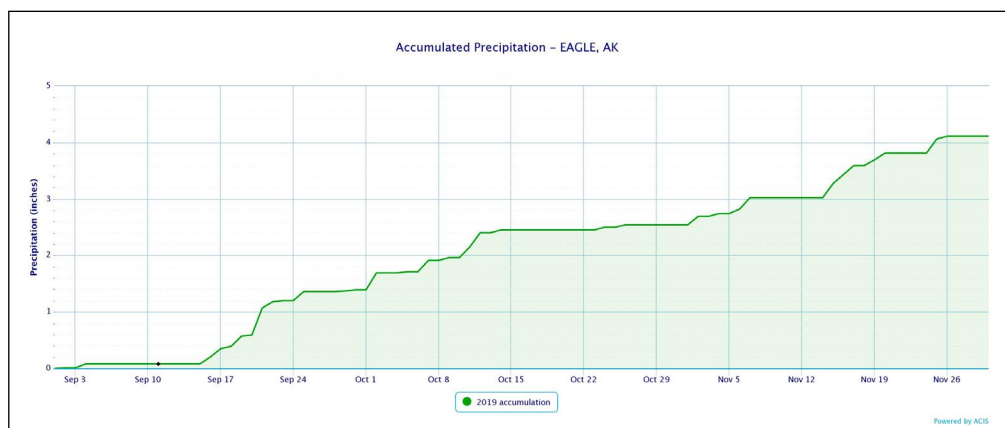
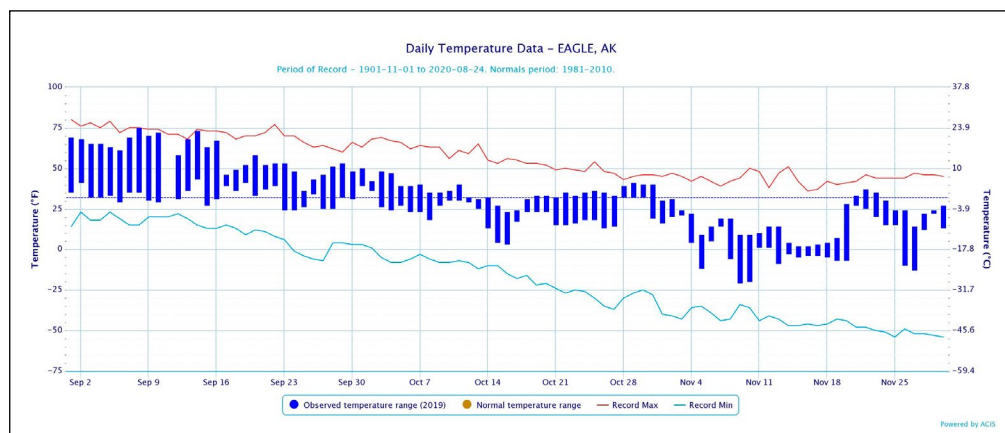


Figure 1 (top left). Fall 2019 daily temperatures at Eagle showing record maximum (red), record minimum (blue) and observed range (blue bars).

Figure 2 (bottom left). Fall 2019 accumulated precipitation at Eagle (green).

Table 1. Temperature: Fall 2019 average monthly temperatures compared to the 1981-2010 normal.

Fall 2019	Average Monthly Temp (°F)	1981-2010 Normal (°F)	Departure from Normal (°F)	Monthly High (°F / Date)	Monthly Low (°F / Date)
September	45.5	41.8	+3.7	75* / Sep 8	24 / Dec 23
October	29.1	23.0	+6.1	50 / Oct 1	3 / Oct 16
November	10.8	3.0	+7.8	37 / Nov 22	-21 / Nov 9

Fall Season Temperature Departure from Normal: +5.9°F; *Record daily high.

Table 2. Precipitation: Fall 2019 monthly precipitation totals compared to normal.

Fall 2019	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	1.39	1.31	+0.08	0.48 / Sep 21	13
October	1.15	0.95	+0.20	0.30 / Oct 2	9
November	1.57	0.73	+0.84	0.25 / Nov 15, 25	11

Fall Season Precipitation Departure from Normal: +1.12 (137% of normal).

Table 3. Snowfall: Fall 2019 monthly snowfall totals compared to normal.

Fall 2019	Total Monthly Snowfall (in.)	1981-2010 Normal (in.)	Departure from Normal (in.)	Greatest 24-hr snowfall total (in. / Date)	Cumulative snowfall since 1-July in.
September	0.0	1.3	-1.3	—	0.0
October	10.0	11.1	-1.1	4.5 / Oct 12	10.0
November	27.5	12.1	+15.4	6.0 / Nov 16	37.5

Fall in Yukon-Charley Rivers National Preserve

2019 was the warmest fall on record at the Coal Creek climate station in Yukon-Charley Rivers NP (Figure 3). Over the past 15 years fall temperatures have increased at this location, although the trend is not significant. Autumn temperatures at the Upper Charley site have warmed significantly over the past 11 years, with the fall of 2019 coming in as second warmest behind 2018.

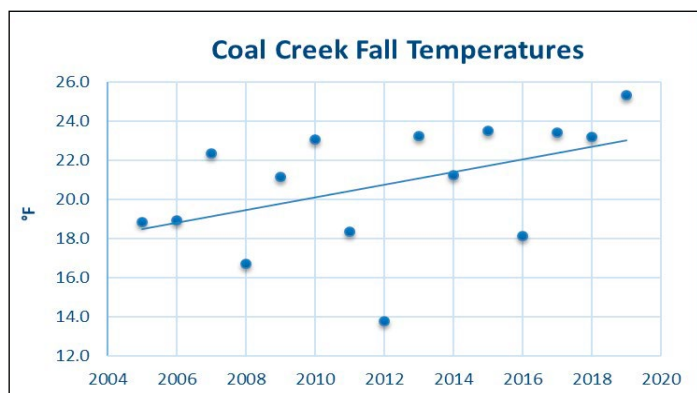


Figure 3. Average fall temperatures at the Coal Creek climate station in Yukon-Charley Rivers NP.

At the end of November there was 17 inches of snow on the ground at the Coal Creek weather station and 14 inches at the Upper Charley site.

The fall of 2019 was warm statewide with record warmth on the north slope and areas along the southern coastline (Figure 4).

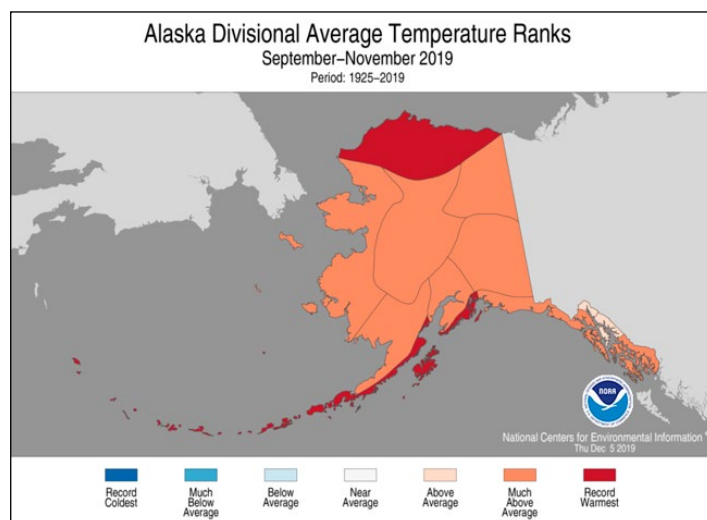


Figure 4. Fall of 2019 ranked above average statewide with record warmth in some areas. Graph courtesy of NCEI.

More Information

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Data disclaimer: Please note that the near-real time data used to generate these reports is subject to change. QA/QC data from the NPS CAKN climate stations are available at [NPS Data Store](#)

