



Weather & Climate Summary Yukon-Charley Rivers National Preserve Summer 2024

Yukon-Charley Rivers National Preserve. NPS Photo/ Pam Sousanes.

Eagle Summer 2024 Weather Summary

Overall, summer was warmer and drier than normal in Eagle. The average temperature for the summer season was 1.6°F warmer than the 1991-2020 normal. June was the warmest summer month compared to normal. There were four new record high temperatures in summer 2024, two in July and two in August. The summer rainfall total was 5.63 inches, 87% of normal. Most of the rain fell in July and August (Table 1 and 2, Figures 1 and 2).

June

June was much warmer and much drier than normal in Eagle. It was the 4th warmest June on record (back to 1902). The average maximum temperature for the month was 5.3°F warmer than normal, while the average minimum temperature for the month was 1°F warmer than normal. 28 out of 30 days had high temperatures above 70°F, the second highest number of days on record (2012 had 29 days above 70°F). The average monthly temperature was 3.1°F warmer than normal. The total rainfall for June was only 0.43 inches, only 25% of normal. This was the fifth driest June on record.

July

July was also warmer and drier than normal. The monthly average temperature was the same as June, 61.6°F, which is 1.0°F warmer than normal. Average July temperatures are usually a few degrees warmer than June temperatures. July 21 through 27 was much warmer than normal, with two record high temperatures on July 22 (87°F) and July 23 (90°F). Total rainfall was 87% of normal with 2.22 inches.

August

August temperatures remained warm, but the rainfall totals

picked up and August ended up wetter than normal. The first part of August was very warm, with temperatures well above normal August 5 through 9. There were two new record highs for the month on August 9 (85°F) and August 19 (86°F). The average monthly temperature was 0.8°F warmer than normal. There were two days where the minimum temperatures dropped below freezing (August 15, 21). The rainfall total was 137% of normal with a total of 2.98 inches for the month. The rainiest day was August 10 with a daily total of 0.65 inches.

Table 1. Eagle average monthly temperatures compared to the 1991-2020 normal.

Summer 2024	Average Monthly Temp (°F)	1991-2020 Normal (°F)	Departure from Normal (°F)
June	61.6	58.5	+3.1
July	61.6	60.6	+1.0
August	54.9	54.1	+0.8

Summer temperature departure from normal: +1.6°F

Table 2. Eagle monthly precipitation totals compared to normal.

Summer 2024	Total Monthly Precip. (in.)	1991-2020 Normal (in.)	Departure from Normal (in.)
June	0.43	1.73	-1.30
July	2.22	2.55	-0.33
August	2.98	2.18	+0.80

Summer precipitation departure from normal: -0.83 inches (87%)

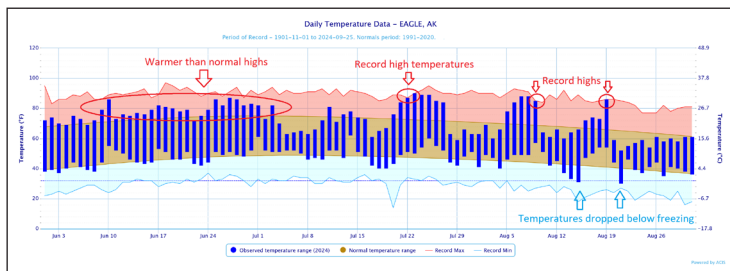


Figure 1. Summer 2024 daily temperatures at Eagle showing record maximum (red), record minimum (blue), normal (brown) and observed range (blue bars). Data from: <http://xmacis.rcc-acis.org/>.

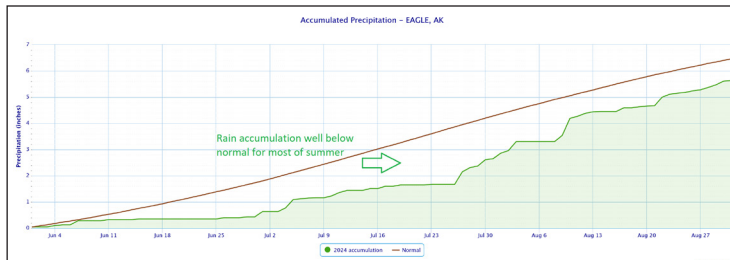


Figure 2. Summer 2024 accumulated precipitation at Eagle (green) compared to normal (brown line). Data from: <http://xmacis.rcc-acis.org/>.

Warm June in Yukon-Charley Rivers NP

Looking at the statewide temperature ranking map for June 2024 you'll notice that most of Yukon-Charley Rivers National Preserve ranked in the top ten warmest Junes since 1940 (Figure 3). It was a warm June statewide.

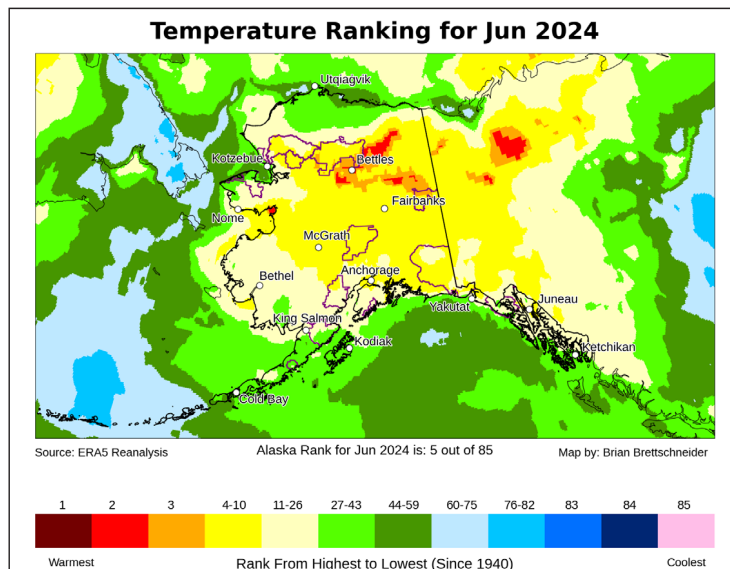


Figure 3. Statewide temperature ranking map for June 2024 (back to 1940). Map courtesy of Brian Brettschneider using ERA5 reanalysis data. Red and yellow shading indicates areas that ranked in the top 10 warmest Junes.

Summer Temperatures increasing in the Preserve

The average summer temperature was warmer than average at both the Coal Creek (elevation 912') and Upper Charley (elevation 3,638') climate stations. Coal Creek has summer data going back to 2005, whereas Upper Charley data begins in 2006. Both sites were 0.6°F warmer than the site averages. Overall summer temperatures have increased at both locations since

the sites were established. On average the summer temperatures at Coal Creek are 7°F warmer than at Upper Charley due to the elevation difference. The warmest summer for both locations was 2023; the coolest summer was 2008 (Figure 4).

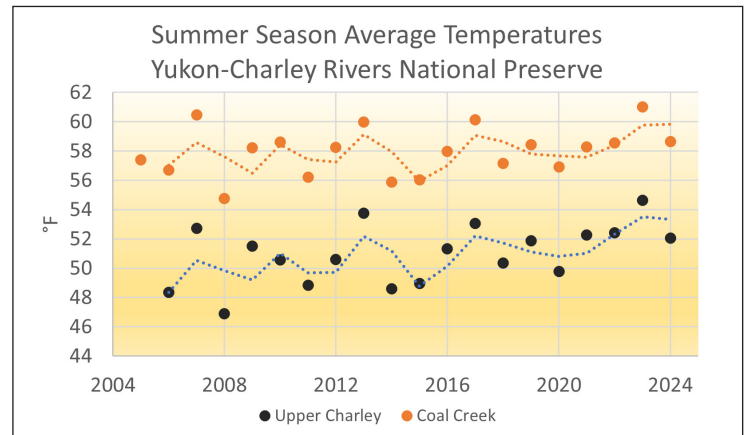


Figure 4. Summer season average temperatures at the Coal Creek and Upper Charley climate stations (2005-2024).

The summer rainfall total at the Coal Creek climate station was 6.91 inches. The Upper Charley site recorded 4.87 of rain this summer, and the Chicken station 50 miles southeast of the Upper Charley site had 4.08 inches for the summer.

Current Weather in the Preserve

[Click here](#) to view the current weather from the climate stations in Yukon-Charley Rivers National Preserve (Figure 5).

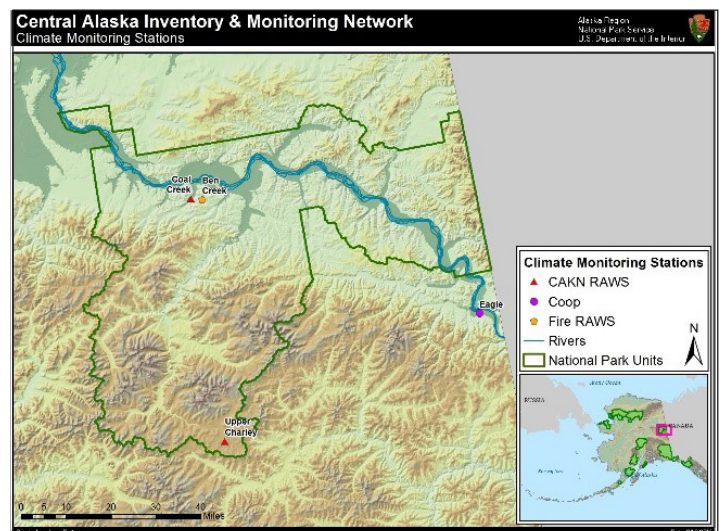


Figure 5. Central Alaska Inventory and Monitoring Network climate stations in Yukon-Charley Rivers National Preserve.

More Information

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<https://www.nps.gov/im/cakn/climate.htm>

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](#)