

Narrative Summary – September 2017

September 2017 was warmer than normal, averaging 67.6°F, 1.2° above normal (66.4°F). The hottest September (1990) averaged 72.4°F, while the coolest (1985) averaged 58.8°F. There were 10 days in September with maximum temperatures $\geq 90^\circ\text{F}$ compared to a normal of 6. There were 80 days this year with maximum temperatures $\geq 90^\circ\text{F}$ compared to a normal of 56 days. This breaks the previous record of 79 days in 1967. There was 1 day in September with maximum temperatures $\geq 100^\circ\text{F}$ compared to a normal of <1, and a record of 3 on numerous occasions. There were 23 days this year with maximum temperatures $\geq 100^\circ\text{F}$ compared to a normal of 13. The greatest number was 28 days in 1958 and 2015. The following daily temperature record was established during September 2017:

<u>Date</u>	<u>Category</u>	<u>New Record</u>	<u>Old Record</u>	<u>Year</u>
5	High Minimum	71	68	2003
20	Low Maximum	61	66	1972+

Precipitation for September 2017 totaled 0.29 inches, 94% of normal (0.31 inch). The wettest September (1947) received 1.34 inches, while the driest (1991 and 1999) received no precipitation. Total precipitation for 2017 (through September) is 5.93 inches, 132% of normal (4.50 inches).

The average wind speed for September 2017 was 7.0 miles per hour (mph), which was 0.3 mph below normal (7.3 mph). The windiest September (1961) averaged 9.2 mph, while the September with the lightest winds (1957) averaged 5.4 mph. The peak gust for September 2017 was from the west-northwest at 40 mph on September 12. The record wind gust for September is 65 mph in 1953.

September 2017 was notable for the continued smoke from regional wildfires that reduced visibilities on several days. There were seven days in September 2017 in which smoke reduced visibilities to six miles or less. The lowest visibility recorded in September 2017 from smoke was one mile on September 7th and 8th. This was a continuation from August 2017 which had ten days where smoke reduced visibilities to six miles or less. This brings the total number of such days to seventeen for 2017. This breaks the yearly record of ten days set in 2012.

The monthly climatological data summaries, as well as other information, are available on the Internet. Address: <http://www.hanford.gov/page.cfm/hms>

Or contact:

HMS staff: 373-2716 hms@rl.gov

Note: The data in this summary pertain specifically to the Hanford Meteorology Station (HMS), which

is located approximately 25 miles northwest of Richland, WA. No attempt should be made to infer meteorological conditions at other locations from these data.