



September 2024

September 2024 in Germany was warmer and wetter compared to the long-term averages for the month. There was also more sunshine than normal. After a fairly summer-like first week of the month, the weather made an abrupt change and autumn patterns predominated with much cooler temperatures and precipitation. There were few Indian summer days, but then, from the middle of the month, an extensive area of low pressure established itself over the eastern areas of central Europe. It brought with it some extreme amounts of precipitation and severe flooding for the neighbouring countries Austria, the Czech Republic and Poland. The south-eastern parts of Germany were equally under the influence of the low-pressure area. Fortunately, precipitation amounts in Germany and the levels of the rivers Danube, Elbe and Oder did not become excessive. The amounts of precipitation recorded there were twice as much as the normal for September. Only the north-east experienced a precipitation deficit. The highest temperature deviations were observed in the north-east. This part of the country registered also the most sunshine hours. In summary, September 2024 marks the 24th successive month with a positive temperature anomaly compared to the monthly averages for 1961-1990.

The nationwide average temperature for Germany was 15.4 °C. Compared to the long-term average over the period 1991-2020, the month thus was 1.6 K warmer than normal. When compared to the international climatological reference period 1961-1990, it was 2.1 K warmer. This puts September 2024 at number 12 in the monthly series since 1881 and thus in the range of very warm.

Averaged over Germany, the monthly precipitation total was 102.8 mm, which is 38.4 mm (or 59.5 %) more than the average over the period 1991-2020 and 41.7 mm (or 68.1 %) more than the average over the reference period 1961-1990. September 2024 thus is the 7th wettest September month since 1881.

The average sunshine duration for the whole of Germany was around 176.8 hours (h), which is 20 h (or 12.8 %) more than in the reference period 1991-2020 and 27.2 h (or 18.2 %) more than the 1961-1990 average. This puts September 2024 at number 19 in the series of sunny September months since 1951.

The Deutscher Wetterdienst is a higher federal authority under the Federal Ministry for Digital and Transport.
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