



# Ground temperature by depth chart

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[Historical thawed depth \(depth of surface frost thawed\) data \(2004-2024\): click ...](#)

[NCRFC Calculated Observed Mean Areal Precipitation \(MAP\) Mean Areal ...](#)

[US Dept of Commerce National Oceanic and Atmospheric Administration National ...](#)

[2024 NCRFC Spring Hydrologic Outlook . Please note: Information about current ...](#)

[Water Supply Products; Flow forecast for Mississippi Lock and Dam 22 - Cape ...](#)

[NCRFC incorporates 24 hours of QPF during Spring & Summer, and 48 hours ...](#)

[The data provided here is an experimental service of the National Weather Service ...](#)

Open-Meteo uses data from thousands of weather stations around the world and combines global (11 km) and mesoscale (1 km) weather models from national weather services into one seamless prediction. These national weather services include the US National Oceanic and Atmospheric Administration (NOAA), Deutscher Wetter Dienst (DWD), Météo France and Canadian Meteorological Center (CMC). To provide the most precise and current weather data, Open-Meteo updates its weather predictions every hour.

The SMU temperature-at-depth maps start from the actual temperature measured in the Earth at as many sites as possible. In addition, the thermal conductance of the rocks (changing as the rock minerals change with deeper depths), the area heat flow, and the rock density (sedimentary rocks are less dense than basement rocks) are used to calculate the deeper temperatures. SMU Geothermal Lab calculates temperatures at specific depth intervals using these variables to produce the temperature maps at different depth slices for the United States.

Most of the measured temperatures used in the calculations are from sedimentary rocks which overlie the harder basement rock. The oil and gas industry has drilled into sedimentary rock as deep as 26,000 (ft) or 8 km in West Texas, yet more typical oil and gas drilling is 4,000 to 10,000 ft (1.2 to 3 km) depending on the depth to the resource. In areas with geothermal power production, drilling is usually in the 1 to 3 km depth range for western United States.

Temperature-at-depth maps are available for the following depths:

• near ground surface temperature map Digitized from Gass, T.E., Geothermal heat pumps, Geothermal Resources Council Bulletin, 11, 3-8, 1982.

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