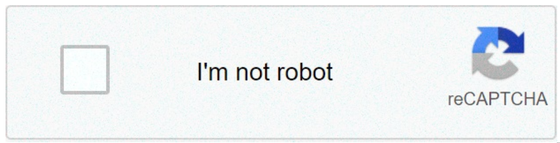

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Weather 89149 hour by hour

EXCESSIVE HEAT WATCH - Las Vegas Radar/Satellite images courtesy of NOAA/NWS and Weather Underground. Updated: @ 05-Jul-2021 8:14pm - next update at 8:15pm Summary / Temperature Wind Rain Outlook Night time, Dry 95.9°F Hot Feels like: 92°F 24-hr difference -0.1°F Today Yesterday High: 107.8°F 4:32pm 105.2°F 4:51pm Low: 80.9°F 5:43am 82.3°F 3:57am SW 0 Gust: 0 mph 0 Bft - Calm Today: 12.7 mph 3:02pm Gust Month: 17.7 mph July 3 Rain Today: 0 in Rain Rate (/hr): 0 in Rain Yesterday: 0 in Storm Rain: 0 in This Month: 0 in Season Total: 0.99 in 6 days since last rain. TuesdaySunny Humidity & Barometer Almanac Moon Humidity: 14 % Dew Point: 39°F Barometer: 29.839 inHg Baro Trend: Steady Sunrise: 5:30am Sunset: 8:03pm Moonrise: 2:48am Moonset: 4:24pm Waning Crescent 14% Illuminated UV Index Solar Radiation 0.0 None High: 10.9 @ 1:23pm 0 W/m2 (0 %) High: 1423 @ 10:41am NWS Weather Forecast - Outlook: Tonight & Tuesday TonightMostly Clear Lo 87 °F NWS forecast: Mostly clear, with a low around 87. Southwest wind 5 to 8 mph. TuesdaySunny Hi 111 °F NWS forecast: Sunny, with a high near 111. East southeast wind 5 to 8 mph. What to expect from the weather this week in the Las Vegas area. By Weather News, Patch Staff Areas that rarely see snow, including the Las Vegas Strip and southern California, are getting a real taste of winter. By David Allen, Patch Staff A wind advisory has been issued Wednesday and Thursday for the Las Vegas Valley. By Lucas Thomas, Patch Staff The National Weather Service says snow has reached the northeast valley and could fall on the Spring Mountains later today. By Lucas Thomas, Patch Staff Clark County officials are issuing a dust advisory across the Las Vegas valley for Thursday, Feb. 22. By Lucas Thomas, Patch Staff All that sun today was enough to tie a record high temperature for February 9 in the Las Vegas valley. By Lucas Thomas, Patch Staff So far, rain that began on Monday and continued into Tuesday has dropped over an inch of water on the Las Vegas valley. By Lucas Thomas, Patch Staff For the first time since last September, rain has been officially recorded in the Las Vegas valley, ending a record drought of 116 days. By Lucas Thomas, Patch Staff Christmas Eve marked record 102 days without recorded rainfall in the Las Vegas valley. By Lucas Thomas, Patch Staff Extreme winds hit the Las Vegas valley on Wednesday afternoon. By Lucas Thomas, Patch Staff Daily high temperatures are around 104°F, rarely falling below 97°F or exceeding 111°F. The highest daily average high temperature is 105°F on July 15. Daily low temperatures increase by 2°F, from 78°F to 80°F, rarely falling below 71°F or exceeding 87°F. The highest daily average low temperature is 80°F on July 22. For reference, on July 13, the hottest day of the year, temperatures in Las Vegas typically range from 80°F to 105°F, while on December 26, the coldest day of the year, they range from 38°F to 56°F. The figure below shows you a compact characterization of the hourly average temperatures for the quarter of the year centered on July. The horizontal axis is the day, the vertical axis is the hour of the day, and the color is the average temperature for that hour and day. Béchar, Algeria (6,060 miles away) and Subaykhān, Syria (7,295 miles) are the far-away foreign places with temperatures most similar to Las Vegas (view comparison). The month of July in Las Vegas experiences gradually increasing cloud cover, with the percentage of time that the sky is overcast or mostly cloudy increasing from 14% to 19%. The clearest day of the month is July 1, with clear, mostly clear, or partly cloudy conditions 86% of the time. For reference, on February 23, the cloudiest day of the year, the chance of overcast or mostly cloudy conditions is 39%, while on June 21, the clearest day of the year, the chance of clear, mostly clear, or partly cloudy skies is 88%. A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. In Las Vegas, the chance of a wet day over the course of July is rapidly increasing, starting the month at 3% and ending it at 9%. For reference, the year's highest daily chance of a wet day is 13% on February 22, and its lowest chance is 1% on June 16. Rainfall To show variation within the month and not just the monthly total, we show the rainfall accumulated over a sliding 31-day period centered around each day. The average sliding 31-day rainfall during July in Las Vegas is gradually increasing, starting the month at 0.2 inches, when it rarely exceeds 0.5 inches, and ending the month at 0.5 inches, when it rarely exceeds 1.1 inches. Over the course of July in Las Vegas, the length of the day is decreasing. From the start to the end of the month, the length of the day decreases by 35 minutes, implying an average daily decrease of 1 minute, 11 seconds, and weekly decrease of 8 minutes, 15 seconds. The shortest day of the month is July 31, with 13 hours, 59 minutes of daylight and the longest day is July 1, with 14 hours, 35 minutes of daylight. The earliest sunrise of the month in Las Vegas is 5:27 AM on July 1 and the latest sunrise is 20 minutes later at 5:47 AM on July 31. The latest sunset is 8:01 PM on July 1 and the earliest sunset is 15 minutes earlier at 7:46 PM on July 31. Daylight saving time is observed in Las Vegas during 2021, but it neither starts nor ends during July, so the entire month is in daylight saving time. For reference, on June 21, the longest day of the year, the Sun rises at 5:23 AM and sets 14 hours, 37 minutes later, at 8:01 PM, while on December 21, the shortest day of the year, it rises at 6:47 AM and sets 9 hours, 42 minutes later, at 4:29 PM. The figure below presents a compact representation of key lunar data for July 2021. The horizontal axis is the day, the vertical axis is the hour of the day, and the colored areas indicate when the moon is above the horizon. The vertical gray bars (new Moons) and blue bars (full Moons) indicate key Moon phases. The label associated with each bar indicates the date and time that the phase is obtained, and the companion time labels indicate the rise and set times of the Moon for the nearest time interval in which the moon is above the horizon. We base the humidity comfort level on the dew point, as it determines whether perspiration will evaporate from the skin, thereby cooling the body. Lower dew points feel drier and higher dew points feel more humid. Unlike temperature, which typically varies significantly between night and day, dew point tends to change more slowly, so while the temperature may drop at night, a muggy day is typically followed by a muggy night. The chance that a given day will be muggy in Las Vegas is gradually increasing during July, rising from 1% to 3% over the course of the month. For reference, on August 6, the muggiest day of the year, there are muggy conditions 4% of the time, while on January 1, the least muggy day of the year, there are muggy conditions 0% of the time. This section discusses the wide-area hourly average wind vector (speed and direction) at 10 meters above the ground. The wind experienced at any given location is highly dependent on local topography and other factors, and instantaneous wind speed and direction vary more widely than hourly averages. The average hourly wind speed in Las Vegas is decreasing during July, decreasing from 8.6 miles per hour to 7.5 miles per hour over the course of the month. For reference, on April 26, the windiest day of the year, the daily average wind speed is 9.2 miles per hour, while on August 28, the calmest day of the year, the daily average wind speed is 7.0 miles per hour. The hourly average wind direction in Las Vegas throughout July is predominantly from the south, with a peak proportion of 56% on July 30. Definitions of the growing season vary throughout the world, but for the purposes of this report, we define it as the longest continuous period of non-freezing temperatures (≥ 32°F) in the year (the calendar year in the Northern Hemisphere, or from July 1 until June 30 in the Southern Hemisphere). The growing season in Las Vegas typically lasts for 11 months (319 days), from around January 24 to around December 8, rarely starting after February 20, or ending before November 19. The month of July in Las Vegas is reliably fully within the growing season. Growing degree days are a measure of yearly heat accumulation used to predict plant and animal development, and defined as the integral of warmth above a base temperature, discarding any excess above a maximum temperature. In this report, we use a base of 50°F and a cap of 86°F. The average accumulated growing degree days in Las Vegas are very rapidly increasing during July, increasing by 1,033°F, from 2,826°F to 3,859°F, over the course of the month. This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation of the Sun above the horizon, and absorption by clouds and other atmospheric constituents. Shortwave radiation includes visible light and ultraviolet radiation. The average daily incident shortwave solar energy in Las Vegas is gradually decreasing during July, falling by 0.9 kWh, from 8.5 kWh to 7.6 kWh, over the course of the month. For the purposes of this report, the geographical coordinates of Las Vegas are 36.175 deg latitude, -115.137 deg longitude, and 1,998 ft elevation. The topography within 2 miles of Las Vegas contains only modest variations in elevation, with a maximum elevation change of 272 feet and an average elevation above sea level of 1,954 feet. Within 10 miles contains only modest variations in elevation (2,415 feet). Within 50 miles contains large variations in elevation (11,234 feet). The area within 2 miles of Las Vegas is covered by artificial surfaces (53%) and shrubs (47%), within 10 miles by shrubs (59%) and artificial surfaces (32%), and within 50 miles by shrubs (91%). This report illustrates the typical weather in Las Vegas, based on a statistical analysis of historical hourly weather reports and model reconstructions from January 1, 1980 to December 31, 2016. Temperature and Dew Point There are 3 weather stations near enough to contribute to our estimation of the temperature and dew point in Las Vegas. For each station, the records are corrected for the elevation difference between that station and Las Vegas according to the International Standard Atmosphere , and by the relative change present in the MERRA-2 satellite-era reanalysis between the two locations. The estimated value at Las Vegas is computed as the weighted average of the individual contributions from each station, with weights proportional to the inverse of the distance between Las Vegas and a given station. The stations contributing to this reconstruction are: North Las Vegas Air Terminal (46%, 7 kilometers, northwest); McCarran International Airport (27%, 12 kilometers, south); and Nellis Air Force Base (27%, 13 kilometers, northeast). Other Data All data relating to the Sun's position (e.g., sunrise and sunset) are computed using astronomical formulas from the book, Astronomical Algorithms 2nd Edition , by Jean Meeus. All other weather data, including cloud cover, precipitation, wind speed and direction, and solar flux, come from NASA's MERRA-2 Modern-Era Retrospective Analysis . This reanalysis combines a variety of wide-area measurements in a state-of-the-art global meteorological model to reconstruct the hourly history of weather throughout the world on a 50-kilometer grid. Land Use data comes from the Global Land Cover SHARE database , published by the Food and Agriculture Organization of the United Nations. Elevation data comes from the Shuttle Radar Topography Mission (SRTM) , published by NASA's Jet Propulsion Laboratory. Names, locations, and time zones of places and some airports come from the GeoNames Geographical Database . Time zones for airports and weather stations are provided by AskGeo.com . Maps are © Esri, with data from National Geographic, Esri, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, and iPC. Disclaimer The information on this site is provided as is, without any assurances as to its accuracy or suitability for any purpose. Weather data is prone to errors, outages, and other defects. We assume no responsibility for any decisions made on the basis of the content presented on this site. We draw particular cautious attention to our reliance on the MERRA-2 model-based reconstructions for a number of important data series. While having the tremendous advantages of temporal and spatial completeness, these reconstructions: (1) are based on computer models that may have model-based errors, (2) are coarsely sampled on a 50 km grid and are therefore unable to reconstruct the local variations of many microclimates, and (3) have particular difficulty with the weather in some coastal areas, especially small islands. We further caution that our travel scores are only as good as the data that underpin them, that weather conditions at any given location and time are unpredictable and variable, and that the definition of the scores reflects a particular set of preferences that may not agree with those of any particular reader. ,,0%chance of precipitation,Wind speed9 mph14 km/h SSW9 mph14 km/hSouth South Westerly, More details ,,0%chance of precipitation,Wind speed8 mph13 km/h SW8 mph13 km/hSouth Westerly, More details ,,0%chance of precipitation,Wind speed8 mph13 km/h W8 mph13 km/hWesterly, More details ,,0%chance of precipitation,Wind speed8 mph13 km/h WNW8 mph13 km/hWest North Westerly, More details ,,0%chance of precipitation,Wind speed8 mph13 km/h WNW8 mph13 km/hWest North Westerly, More details ,,0%chance of precipitation,Wind speed7 mph12 km/h WNW7 mph12 km/hWest North Westerly, More details ,,0%chance of precipitation,Wind speed7 mph12 km/h WNW7 mph12 km/hWest North Westerly, More details ,,0%chance of precipitation,Wind speed7 mph11 km/h NW7 mph11 km/hNorth Westerly, More details ,,0%chance of precipitation,Wind speed7 mph11 km/h NW7 mph11 km/hNorth Westerly, More details