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Shell rock iowa weather

Thursday 3 DEC 2020 12 PM 37° 29° Bright 0% 0% Thunder(0% severe) W 12 58% 24° High 40° 3 PM 39° 32° Bright WSW 12 54% 24° Partly cloudy 6 PM 34° 29° Partly 0% 0% 0%. serious) SW 6 63% 23° 9 PM 32° 26° Partly cloudy WSW 7 68% 23° Friday 4 DEC 2020 12 AM 31° 24° Bright 0% 0% Thunder(4% severe) WSW 7 71% 23° Low 25° 3 AM 29° 23° Clear WSW 6 77% 23° High 43° 6 AM 27° 20° Clear 2% 0% Thunder(0% severe) W 6 84% 23° Clear 9 AM 33° 25° Clear NW 9 74% 26° 12 PM 40° 34° Clear 1% 0% Thunder(0% NNW 9 6 2% 28° 3 PM 42° 36° Clear NNW 9 57% 28° 6 PM 37° 32° Clear 0% Thunder(0% severe) NNW 6 69% 28° 28° 31° 28° Clear 3 81% 26° Saturday 5 DEC 2020 AM 27° 24° Bright 0% 0% Thunder(0% severe) NE 1 87% 24° Low 21° 3 AM 24° 20° Clear CALM 96% 23° High 41° 6 AM 23° 19° Bright 0% 0% 0% Thunder(0% severe) CALM 95% 22° Partly cloudy 9 AM 31° 28° Clear S 3 81% 26° 12 PM 38° 33° Partly cloudy 0% 0% Thunder(0% severe) SW 7 67% 28° 3 PM 3 PM 3 40° 35° Partly cloudy W 7 62% 28° 6 PM 35° 30° Partly cloudy WNW 6 75% 28° Sunday 6 DEC 2020 Monday 7 DEC 2020 Tuesday 8 DEC 2020 Wednesday 9 DEC 2020 Thursday10 DEC 2020 Low 25° Low 24° Low 24° Low 29° Low 34° High 34° High 40° High 44° High 50° High 45° Partly cloudy 3% Rain/snow mostly cloudy 6% Snow Clear 2% Rain/snow Clear 13% Rain partly cloudy 18% Rain TonightNat clear, with a low around 26. West southwest wind 7 to 9 mph. FridaySunny, with a high near 41. North wind 7 to 11 mph. Friday NightNally clear, with a low around 21. North winds 5 to 7 mph becoming calm after midnight. SaturdaySunny, with a high near 39. Light and changeable winds becoming west 5 to 7 mph in the morning. Saturday NightMostly bright, with a low around 23. West Northwest Wind around 1:80 a.m. SundaySate it is sunny, with a high near 38.Sunday NightPartly cloudy, with a low around 22.MondaySy sunny, with a high near 41.Monday NightMostly bright, with lows around 24.TuesdayA sunny, with a high near 45.Tuesday NightPartly cloudy, with lows around 28.WednesdaySunny, with highs near 51.Wednesday NightMostly bright, with a low around 29.ThursdayA sunny, with highs near 46. Mostly clear. Low around 25F. Wind WSW at 5 to 10 mph. Mostly sunny. High 44F. Wind NNW at 10 to 15 mph. Clear. Low 19F. Windlight and variable. A few clouds from time to time. High 41F. Windlight and variable. A few clouds from time to time. Low near 20F. Windlight and variable. Intervals of clouds and sunshine. High 41F. Wind N at 5 to 10 mph. Partly cloudy skies. Low 23F. Wind NNW at 5 to 10 mph. Partly cloudy skies. High around 45F. Wind WNW at 5 to 10 mph. clear skies. Low 24F. Winds W at 5 to 10 mph. Partly cloudy. High near 45F. Wind W at 10 to 15 mph. A few clouds from time to time. Low 28F. Winds W up up to 10 mph. Mostly sunny. High 51F. Winds W at 10 to 15 mph. Generally honest. Low 28F. Wind WSW at 5 to 10 mph. Intervals of clouds and sunshine. High 47F. Wind WSW at 10 to 15 mph. Mostly cloudy. Low 28F. Wind NW at 5 to 10 mph. Considerable turbidity. High 43F. Wind NW at 10 to 15 mph. Changeable clouds with snow showers. Low 28F. Wind NW at 5 to 10 mph. Chance of snow 40%. Snow accumulations less than an inch. Some sun in the morning with increasing clouds in the afternoon. High near 40F. Wind NW at 10 to 15 mph. Significant clouds early. Some drop clouds late. Low 21F. Wind WNW at 5 to 10 mph. Sunshine and clouds mixed. High near 35F. Wind WNW at 10 to 20 mph. A few clouds. Low 18F. Wind WNW at 10 to 15 mph. Intervals of clouds and sunshine. High around 35F. Wind WNW at 10 to 20 mph. A few clouds from time to time. Low 18F. Wind WNW at 5 to 10 mph. Considerable turbidity. High 33F. Wind WNW at 10 to 15 mph. Partly cloudy. Low 17F. Wind NW at 10 to 15 mph. Partly cloudy. High 31F. Wind WNW at 10 to 20 mph. Partly cloudy. Low near 15F. Wind WNW at 5 to 10 mph. Intervals of clouds and sunshine. High 32F. Winds W at 10 to 15 mph. Partly cloudy. Low 18F. Winds W at 10 to 15 mph. In Shell Rock, summers are long, warm and wet; the winters are freezing, dry and windy; and it is partly cloudy all year round. During the year the temperature usually varies from 11°F to 83°F and is rarely below -9°F or above 91°F. Based on the tourist score, the best time of year to visit Shell Rock for hot weather activities is from mid-June to early September. The warm season lasts 4.1 months, from 17 May to 21 September, with an average daily high temperature above 72°F. The hottest day of the year is July 17, with an average high of 83°F and a low of 64°F. The cold season lasts 3.2 months, from 28 November to 2 March, with an average daily high temperature below 38°F. The coldest day of the year is January 22, with an average low of 11°F and highs of 27°F. The figure below shows you a compact characterization of the whole year of average hourly temperatures per hour. The horizontal axis is the day of the year, the vertical axis is the hour of the day and the color is the average temperature for that hour and that day. Almaty, Kazakhstan (6,469 miles away) is the distant foreign site with temperatures most similar to Shell Rock (view comparison). In Shell Rock, the average percentage of sky covered with clouds experiences significant seasonal variation over the course of the year. The clearer part of the year in Shell Rock starts around June 7 and lasts 4.5 months, ending around 23 On July 27, the brightest day of the year, the sky is clear, mostly clear, or partly cloudy 70% of the time, and cloudy or mostly cloudy 30% of the time. The cloudy part of the year starts around 23 October and lasts 7.5 months, months, June 7. On December 28, the cloudiest day of the year, the sky is cloudy or mostly cloudy 58% of the time, and clear, mostly clear, or partly cloudy 42% of the time. A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. The chance of wet days in Shell Rock varies considerably throughout the year. The wetter season lasts 5.9 months, from April 4 to October 2, with a greater chance of more than 27% that a given day is a wet day. The chance of a wet day peaks at 44% on June 8. The drier season lasts 6.1 months, from October 2 to April 4. The smallest chance of a wet day is 11% on January 8. Under wet days, we distinguish between those who experience only rain, snow only, or a mixture of the two. Based on this categorization, the most common form of precipitation in Shell Rock changes throughout the year. Rain alone is the most common for 9.6 months, from February 21 to December 10. The best chance of a day with rain alone is 44% on June 8. Snow alone is the most common for 2.4 months, from December 10 to February 21. The best chance of a day with snow only is 8% on January 10. Precipitation To show variation within the months and not just the monthly totals, we show the precipitation collected over a sliding period of 31 days centered around each day of the year. Shell Rock experiences extreme seasonal variation in monthly rainfall. The rainy period of the year lasts 10 months, from February 18 to December 22, with a sliding 31-day rainfall of at least 0.5 inches. Most of the rain falls during the 31 days centered around June 17, with an average total accumulation of 4.7 inches. The rainless period of the year lasts 1.9 months, from 22 December to 18 February. The least rain falls around January 22, with an average total accumulation of 0.2 inches. Snowfall We report snowfall in liquid equivalent terms. The actual depth of new snowfall is usually between 5 and 10 times the liquid-equivalent amount, assuming the ground is frozen. Colder, drier snow tends to be at the higher end of that range and warmer, wetter snow at the bottom. As with rainfall, we consider the snowfall accumulated over a sliding period of 31 days centered around each day of the year. Shell Rock is experiencing some seasonal variation in monthly liquid-equivalent snowfall. The snowy period of the year lasts 4.9 months, from November 4 to March 31, with a sliding 31-day liquid-equivalent snowfall of at least 0.1 inches. Most snow falls during the 31 days centered around December 16, with an average total liquid-equivalent accumulation of 0.5 inches. The snowless period of the year lasts 7.1 months, March 31 to November 4. The least snow falls around July 26, with an average total liquid-equivalent accumulation of 0.0 inches. The length of the day in Shell Rock varies considerably over the course of the year. In 2020, the shortest day December 21, with 9 hours, 2 minutes of daylight; the longest day is June 20, with 15 hours, 20 minutes of daylight. The earliest sunrise is at 5:31 a.m. on June 14, and the last sunrise is 2 hours, 12 minutes later at 7:43 a.m. on October 31. The earliest sunset is at 4:36 p.m. on December 8, and the last sunset is 4 hours, 16 minutes later at 8:52 p.m. on June 26. Daylight saving time (DST) is observed in Shell Rock in 2020, starting in spring on March 8, which lasts 7.8 months and ends in autumn on November 1. The figure below gives a compact view of the most important lunar data for 2020. 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 grey beams (new moons) and blue bars (full moons) indicate the most important lunar phases. We base the humidity comfort level on the dew point, because it determines whether perspiration evaporates from the skin, causing the body to cool down. Lower dew points feel drier and higher dew points feel wetter. Unlike the temperature, which usually varies considerably between night and day, dew point tends to change more slowly, so while the temperature can drop at night, a balmy day is usually followed by a balmy night. Shell Rock experiences significant seasonal variation in the observed humidity. The muggier period of the year lasts 3.4 months, from June 3 to September 15, during which time the comfort level is sultry, oppressive, or miserable at least 12% of the time. The muggiest day of the year is July 20, with balmy conditions 48% of the time. The least balmy day of the year is February 16, when balmy conditions are essentially unheard of. This section discusses the wide area per hour average wind vector (speed and direction) at 10 meters above the ground. The wind experienced at a particular location depends heavily on local topography and other factors, and instantaneous wind speed and direction vary more than hourly averages. The average wind speed per hour in Shell Rock has significant seasonal fluctuations over the course of the year. The windier part of the year lasts 7.9 months, from September 30 to May 27, with average wind speeds of more than 10.4 miles per hour. The windiest day of the year is March 31, with an average wind speed per hour of 13.0 miles per hour. The quieter time of year lasts 4.1 months, from 27 May to 30 September. The quietest day of the year is August 2,

with an average wind speed per hour of 7.9 miles per hour. The predominant average hourly wind direction in Shell Rock varies throughout the year. Winds typically come 3.7 months from the north, from January 1 to April 22, with a peak rate of 36% on March 7. The wind is coming 7.3 months from the south, from April 22 to December 1, with a peak rate of 42% on September 4. The wind comes out most often 4.3 weeks, from 1 December to 31 December, with a peak rate of 32% on 29 December. To characterize how pleasant the weather is in Shell Rock all year round, we calculate two travel scores. The tourist score favors bright, rainless days with observed temperatures between 65°F and 80°F. Based on this score, the best time of year to visit Shell Rock for general outdoor tourist activities is from mid-June to early September, with a peak score in the first week of August. The beach/pool score favors clear, rainless days with observed temperatures between 75°F and 90°F. Based on this score, the best time of year is to visit Shell Rock for hot weather activities from late June to mid-August, with a peak score in the third week of July. Methodology For every hour between 8:00 a.m. and 9:00 p.m. each day in the analysis period (1980-2016), independent scores are calculated for observed temperature, cloud cover, and total precipitation. These scores are combined into a single composite score per hour, which is then aggregated into days, on average over all years in the analysis period, and smoothed out. Our cloud cover is 10 for completely clear skies, dropping linearly to 9 for mostly clear skies, and up to 1 for completely cloudy skies. Our precipitation score, which is based on the three-hour precipitation centered on the hour in question, is 10 for no precipitation, drops linearly to 9 for trace precipitation, and 0 for 0.04 inches of precipitation or more. Our tourist temperature score is 0 for observed temperatures below 50°F, linearly rise to 9 for 65°F, to 10 for 75°F, drops linearly to 9 for 80°F, and to 1 for 90°F or hot. Our beach/pool temperature score is 0 for observed temperatures below 65°F, linearly rising to 9 for 75°F, up to 10 for 82°F, dropping linearly to 9 for 90°F, and up to 1 for 100°F or hot. Definitions of the growing season vary around the world, but for the purposes of this report, we define it as the longest continuous period of non-freezing temperatures ($\geq 32^\circ\text{F}$) in the year (the calendar year in the Northern Hemisphere, or from July 1 to June 30 in the Southern Hemisphere). The growing season in Shell Rock usually lasts 5.5 months (168 days), from about April 20 to about October 5, rarely starting before April 1 or after May 9, and rarely ending before September 18 or after October 22. Growing degree days are a measure of annual heat accumulation used to predict the development of plants and animals, and defined as the integral of heat above a base temperature, throwing excess above a maximum temperature. In this report, we use a base of 50°F and an 86°F limit. Based on growing levels of days the first spring bloom in Shell Rock should appear around April 16, only rarely appear before April 5 or after May 1. This section discusses the total daily shortwave shortwave incident energy that reaches 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 shortwave solar incident experiences extreme seasonal variation over the course of the year. The bright period of the year lasts 3.5 months, from May 3 to August 21, with an average daily incident shortwave energy per square meter above 5.9 kWh. The brightest day of the year is July 3, with an average of 7.0 kWh. The dark period of the year lasts 3.4 months, from October 30 to February 10, with an average daily incident shortwave energy per square meter below 2.7 kWh. The darkest day of the year is December 20, with an average of 1.7 kWh. For the purposes of this report, the geographic coordinates of Shell Rock are 42,710 deg latitude, -92,583 deg longitude, and 909 ft height. The topography within 2 miles of Shell Rock contains only modest variations in altitude, with a maximum elevation change of 118 feet and an average altitude above sea level of 923 feet. Within 10 miles also contains only modest variations in altitude (233 feet). Within 50 miles contains only modest variations in altitude (640 feet). The area within 2 miles of Shell Rock is covered with arable land (84%) and trees (11%), within 10 miles per arable land (91%), and within 50 miles of arable land (96%). This report illustrates the typical weather in Shell Rock, 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 estimate of the temperature and dew point in Shell Rock. For each station, the records are corrected for the height difference between that station and Shell Rock 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 Shell Rock is calculated as the weighted average of the individual contributions of each station, with weights proportional to the inverse of the distance between Shell Rock and a particular station. The stations contributing to this reconstruction are: Waterloo Municipal Airport (60%, 23 kilometers, southeast); Charles City Municipal Airport (25%, 40 km, north); and Iowa Falls Municipal Airport (15%, 58 kilometers, southwest). Other data All data related to the position of the sun (e.g. sunrise and sunset) are calculated using astronomical formulas from the book, *Astronomical Algorithms* 2nd Edition, Jean Meeus. All other weather data, including cloud cover, precipitation, wind speed and direction, and solar energy, come from MERRA-2 Modern-Era Retrospective Analysis. This reanalysis combines a variety of measurements in the broad area in a state-of-the-art global meteorological model to reconstruct the hour history of weather around 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. Altitude 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 Geographic 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 it is, without any guarantees regarding its accuracy or suitability for any purpose. Weather data is prone to errors, outages, and other defects. We do not take responsibility for decisions made based on the content presented on this site. We draw particular caution to our reliance on merra-2 model-based reconstructions for a number of important data sets. Although these reconstructions have the enormous advantages of temporal and spatial completeness, these reconstructions are: (1) based on computer models that can have model-based errors(2) are crudely sampled on a grid of 50 km 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 underlying them, that weather conditions at a particular location and time are unpredictable and variable, and that the definition of scores reflects a particular set of preferences that may not agree with those of a particular reader. Reader.

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