

Department of
Plant and Environmental Sciences

INTRODUCTION

Plant growth and crop production are intrinsically linked to climate and daily weather conditions. Climate determines the types of plants that can be grown in a particular area and the management techniques required for successful landscapes and agricultural sustainability. Weather affects crop water requirements; timing of planting, cultivation, fertilization, and harvest; crop tolerance to disease and pests; total crop yield; and product quality. Agricultural and landscape planning begin with a thorough understanding of a locale's climate. To help provide this understanding for the Four Corners region, daily weather observations have been made since 1969 at the New Mexico State University (NMSU) Agricultural Science Center at Farmington (ASCF). ASCF is located in northwestern New Mexico (36° 4' N lat., 108° 2' W long.) about seven miles southwest of Farmington at an elevation of 5,640 feet above mean sea level. Two weather data recording stations are located at ASCF (Figure 1). Station 1 (WS-1) was established on bare soil about 150 feet WNW of the ASCF office building in January 1969 and was given an official designation by the National Weather Service (NWS) in 1978. Station 2 (WS-2) was installed in an alfalfa-grass field approximately 400 yards south of WS-1 in 1985 (Figure 1). This is an automated, computer-linked station that is operated and maintained by the New Mexico Climate Center (NMCC) at NMSU in Las Cruces. This report summarizes weather observations from these stations from 1969 through 2011.

SUMMARY

ASCF is located near the geographic center of the Southwest Climate Region of the U.S. (National Climate Data

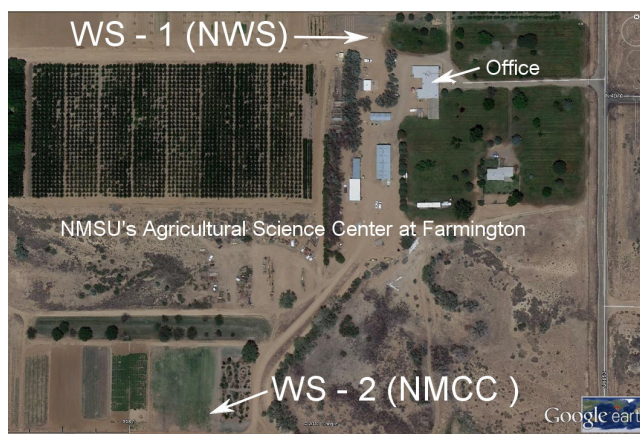


Figure 1. Satellite view showing locations of the two weather stations at NMSU's Agricultural Science Center at Farmington (Google, 2013).

Center, 2013) in United States Department of Agriculture (USDA) plant hardiness zone 7a (USDA-ARS, 2013), Sunset Garden Book zone 3A (Brenzel, 2007), and American Horticulture Society (AHS) heat unit zone 8 (AHS, 2013). Compared to the mountainous areas that surround it, climate at ASCF is relatively dry and mild. Summer days are typically warm (90–95°F) and dry, while nights are cool (55–60°F). During winter months of December and January, air temperatures commonly fall below 20°F in the early morning, while daytime highs typically range between 35 and 45°F. The frost-free period averages 162 days from early May to mid-October, but crops, such as potatoes, corn, spring cereals, etc., are frequently planted before May 1. Throughout the year, days are typically clear and sunny. When precipitation events occur, they are usually of short duration and deposit less than 0.10 inch of rain per event. During the winter snows are infrequent, and accumulated snow depths greater than a few inches are rare. Total annual precipitation averages slightly more than 8 inches, with about half of the total occurring

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Figure 2. View of National Weather Service weather station (WS-1) at NMSU's Agricultural Science Center at Farmington, January 2013.

in the four-month period of July to October. Twenty-four-hour precipitation depths exceeding one inch have occurred only 16 times during the entire 43 years of record. Compared to southern and eastern New Mexico, winds are relatively calm during the summer and winter, averaging about 110 miles per day (mpd) [4.6 miles per hour (mph)] between July and January. During March, April, and May, strong westerly winds are common, and average wind velocity increases to about 145 mpd (6.0 mph).

MATERIALS AND METHODS

Weather Station 1

Weather station 1 (Figure 2) air temperature measurements were recorded from standard U.S. Weather Bureau maximum (mercury) and minimum (alcohol) thermometers housed in a regulation, wooden, louvered instrument shelter until March 2005. From March 2005 through 2011, air temperatures were recorded with a Nimbus PL digital thermometer housed in a plastic, cylindrical, stacked plate radiation shield. A standard 8-inch-diameter rain gauge has been used since January 1969 to measure total daily precipitation. A battery-operated, constant-reading rain gauge was installed in 1982 to measure precipitation rate. Wind movement in mpd has been recorded at two heights since 1980 using standard three-cup anemometers. One is located 6 inches above a standard Class-A metal evaporation pan, while the other is set at a height of 6 feet above the soil surface.

Water evaporation from a Class-A pan (PAN) was measured daily with a hook gauge from May 1 through September 30 in all years from 1974 to 2011. PAN



Figure 3. View of New Mexico Climate Center weather station (WS-2) at NMSU's Agricultural Science Center at Farmington, January 2013.

measurements were also recorded for most days in April from 1977 to 1981, 1984 to 1986, and from 1989 through 2011. October measurements were recorded in 1972, 1974 to 1979, 1981, 1984, 1985, 1987, 1988, and from 1990 through 2011.

Maximum and minimum bare-soil temperatures at a depth of 4 inches have been recorded since 1976 using buried temperature sensors. The soil type is a Doak fine sandy loam with about 70% sand, 20% silt, and 10% clay.

From January 1977 to September 1996, global (direct and diffuse) solar radiation was measured with a star pyranometer set at a height of 6.5 feet near the WS-1 instrument shelter. Subsequent measurements were made with a LI-COR pyranometer set at a 10-foot height at WS-2.

Relative humidity (RH) data were recorded from 1980 to 1989 with hygrothermographs set in the WS-1 instrument shelter. From 1990 to 2011, RH was monitored with temperature/RH probes housed in a plastic, cylindrical, louvered shelter 6 feet above the ground at WS-2.

Data recorded at WS-1 are summarized on the Western Regional Climate Center website (<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm3142>) and the ASCF website (<http://aces.nmsu.edu/aces/farm/weather.html>).

Weather Station 2

The NMCC weather station (Figure 3) consists of air temperature, RH, solar radiation, wind speed, wind direction, soil temperature, and rain-depth sensors wired to a Campbell CR10 data logger. The data logger (powered by a 12-volt, deep-cycle, lead-acid battery) and all sensors were mounted to a 10-foot high steel and aluminum tripod. A solar panel provided recharge

to the battery. Measurements were recorded to the data logger every hour, and the data were downloaded to a PC at the NMCC via modem and telephone line. PAN measurements were also taken from a standard Class-A evaporation pan installed at WS-2 from 1985 through 1994. All data except PAN from WS-2 are accessible from the NMCC web site (<http://weather.nmsu.edu>).

Data Adjustment

From January 1, 1969, to March 31, 1980, weather data from WS-1 were recorded at 4:30 p.m. Mountain Time (MT). From April 1, 1980, onward, WS-1 data were recorded at 8:00 a.m. MT. In preparing this report, various assumptions (and data adjustments) were made based on these recording times. When recording occurred at 4:30 p.m., it was assumed that both minimum and maximum temperature and RH occurred on the day of record. Likewise, PAN, solar radiation (when recorded at WS-1), and wind run are also reported as occurring on the day of record even though a significant portion of the 24-hour totals for these parameters could have occurred on the previous day from 4:30 p.m. to midnight.

When data were recorded at 8:00 a.m., it was assumed that minimum temperature and maximum RH occurred on the day of record, (i.e., after midnight). It was assumed that maximum temperature, minimum RH, total solar radiation, and total wind run occurred on the previous day, and the records in this report for WS-1 reflect these assumptions. Data recorded from WS-2 reflect parameter summaries or totals from midnight to midnight and did not require adjustments.

Only temperature and precipitation measurements were made every day for the entire 43-year period, at WS-1. The other parameters were measured for either a portion of this time span (e.g., wind, solar radiation) or for selected days during the year (e.g., pan evaporation). Monthly averages shown in the summary tables in this report represent means of all reliable values recorded for each day within a month. Monthly means are not shown for months in which reliable daily measurements were not recorded or were missing due to instrument malfunctions or other issues.

In the original data records for WS-1, PAN measurements were entered as differences in hook gage readings from one day to the next, without adjustments for precipitation. In this report, PAN data reflect hook gage reading differences plus precipitation that occurred between readings.

RESULTS

Daily Averages

Temperature and Precipitation

Tables 1 through 12 summarize average and extreme air temperatures (highest and lowest) and maximum precipitation depth recorded for each day of each month at WS-1 from 1969 through 2011. The number of years in which measurable (at least 0.01 inch) precipitation was recorded for each day during the 43-year period is also shown, as well as the total accumulative depth for that day over the period. These records provide a baseline reference for determining how subsequent daily temperature or precipitation measurements compare to averages or extremes for the previous 43-year period (i.e., new records). Average daily high temperatures ranged from just above 40°F in January and December to 91°F in July (Figure 4). The highest temperature recorded at WS-1 over the 43-year period was 103°F and occurred on June 30, 1990 (Table 6); July 6, 1989; July 15, 2003; and July 21, 2005 (Table 7). A few notable periods with consecutive record-breaking high temperatures occurred from July 9 to July 26 in both 2003 and 2005 (Table 7). The lowest temperature of -18°F was recorded on January 7, 1971 (Table 1). Notable cold periods with sub-zero temperatures occurred from January 5 to 8, 1971 (Table 1); February 6 to 7, 1989 (Table 2); December 7 to 11, 1978 (Table 12); and December 23 to 27, 1990 (Table 12).

The highest 24-hour precipitation accumulation of 1.93 inches was recorded on September 6, 1970 (Table 9). Daily precipitation of greater than 1 inch was recorded on only 15 other dates during the entire 43-year period. Notable multi-day periods of significant precipitation occurred April 3 to 4, 1997 (1.88 in.); July 19 to 22, 1986 (2.66 in.); and September 8 to 12, 2002 (3.07 in.). August 20 has been the wettest day of the year, raining on the date 17 times (40% of the 43 years) with a cumulative total depth of 4.11 inches (Table 8). August 23 has a similar cumulative (43-year) total of 4.05 inches. Precipitation has not occurred on the leap year date of February 29 (10 years) or on May 30 (Table 5).

Wind Run

Table 13 (a and b) displays the average and maximum recorded 24-hour wind run and the calculated average miles per hour (avg. 24-hour wind run / 24) measured at a height of 6 feet for each day of the year from 1980 to 2011 at WS-1. High average wind runs in excess of 170 mpd or 7 mph have occurred on March 17, March 26, April 2, April 18, and April 25 (Table 13a). August and September have had the lowest average wind runs, with 6 days in each month having average wind runs of less than 100 mpd or 4.2 mph (Table 13b). From 1985 to

2011, daily wind speed recorded at a height of 3 feet at WS-1 averaged 80% of that recorded at a height of 10 feet at WS-2 (Figure 5). While part of the difference can be attributed to the logarithmic wind speed profile (i.e., inherent wind speed differences with height), prevailing south and southwest winds are partially blocked by trees and other obstructions at WS-1 (Figures 1 and 2) whereas WS-2 has a south and southwest fetch of several hundred feet (Figures 1 and 3).

Relative Humidity

In simple terms, relative humidity (RH) refers to the ratio of the amount of water vapor in the air compared to the amount of water vapor that would result in saturation of that air at the same temperature and pressure expressed as a percentage. At 100% RH, the air is saturated and water condenses (changes from a vapor to liquid). Average daily RH from 1980 through 2011, ranged from 34% in June to 64% in January (Table 14). The average daily high RH usually occurred in early morning and exceeded 85% for most days in December and January but averaged less than 55% in mid-June. The average daily low RH generally occurred during the warmest part of the day in mid-afternoon and was less than 20% for all days in June and most days in May and July (Table 14). Highest average minimum daily RH of greater than 40% occurred on most days in December (Table 14b) and January (Table 14a).

Solar Radiation

Solar radiation (SR) was measured in Langleys per day. A Langley (Ly) is a unit of energy equal to 1 calorie per square centimeter (cal/cm^2), and 1 Ly per day is equal to 0.1536 BTU/ ft^2 per hour (USDA-NRCS, 2013). The average number of Ly per day ranged from 176 on December 21 to 689 on June 22 (Table 15). Since skies are generally clear most days of the year in northwestern New Mexico, these two dates correspond with the dates of winter and summer solstices (December 20–21 and June 20–21), respectively. Solar radiation at the equinoxes (March 20–21 and September 22–23) averaged about 440 Ly per day (Table 15). Total solar radiation per month ranged from a low of 6,300 Ly in December (203 Ly/day) to 19,450 Ly (648 Ly/day) in June (Table 15 and Figure 6). Total Ly per year averaged 156,000.

Pan Evaporation

Evaporation is affected by temperature, wind, humidity, and solar radiation. With appropriate correction factors, it is sometimes used as an index of plant water use. Average daily PAN at WS-1 between April 1 and October 31 from 1972 to 2011 ranged from less than 0.20 inch/day in late October to greater than 0.45 inch/day from mid-June to mid-July (Table 16). The greatest average

(39-year) daily PAN of 0.49 inch/day occurred on June 22. Average PAN per month ranged from 5.8 inches in October to 13.2 inches in June, and totaled 71.1 inches from April through October. Despite the higher average wind speed at WS-2, PAN measurements taken from the WS-1 pan, which was situated over bare soil, averaged 18% greater (from 1985 to 1994) than PAN measurements taken from the pan situated over vegetation (alfalfa or grass) at WS-2 (Figure 7).

Soil Temperature

Since seeds require a minimum soil temperature for successful germination, soil temperature (ST) is an important factor to consider when determining when to plant agronomic and horticultural crops. While seeds of small grain crops such as wheat and barley and cool-season vegetables such as spinach, radishes, and peas may germinate at ST of less than 45°F, crops such as corn, melons, squash, and dry beans germinate best at ST above 55 or 60°F (Arizona Cooperative Extension, 1998; Pathak et. al., 2012). Ten-year average daily ST at 4 inches deep reached 60°F at WS-1 about the third week in April, and the average minimum nighttime ST stayed consistently above 60°F after May 13 (Table 17a). Average daily ST equaled or exceeded 85°F from the first week in July to the first week in August while average maximum daytime ST was greater than 95°F during this same time period (Table 17b). In the fall, average daily ST dropped below 60°F by about mid-October and was at 32°F or below from December 10 to February 6 (Table 17).

To evaluate the effects of vegetation cover on ST, average daily ST calculated at WS-1 from 2001 to 2011 was compared to that calculated at WS-2 for the same time period. Average daily ST at WS-1 (bare soil) was greater than that at WS-2 (vegetative cover) from about mid-March through mid-October, and less than that at WS-2 from about mid-November through mid-February (Figure 8). Maximum average ST at WS-2 did not exceed 75°F during the summer and did not fall below 32°F in the winter (Figure 8).

Freeze-Free Periods

The freeze-free period (consecutive days above 32°F) averaged 162 days over the 43 years (Table 18). The shortest freeze-free period of 115 days occurred in 1999, the only year in which a June freeze was recorded. The longest freeze-free period of 193 days occurred in 1977. The average dates of the last spring freeze and first autumn freeze were May 4 and October 13, respectively. The earliest and latest dates of the last spring freeze were April 10, 1990, and June 5, 1999, respectively. The earliest and latest dates of the first fall freeze were September 18, 1971, and November 12, 1988, respectively

(Table 18). The number of consecutive days without a killing freeze (28°F or less) averaged 184. A killing freeze results in substantial damage to most plants. A temperature of 28°F for more than 30 minutes, for example, will kill approximately 10% of apple or cherry blossoms during flowering (Longstroth, 2001).

Growing Degree-Days

Growing degree-days (GDD) or heat units are used to rate or predict the growth or development stage of plants or insects. Plant development is related to temperature, and each crop has an optimum temperature range for growth. That is, there is a minimum temperature below which plants will not grow (minimum cutoff or base temperature) and a maximum temperature at which plant growth rate will stabilize or decrease (maximum cutoff temperature). The average daily temperature (mean of daily minimum and maximum temperatures) minus the base temperature is equal to GDD for that day. However, if the observed minimum temperature for the day is less than the minimum cutoff temperature (CO_{min}), then it is set equal to CO_{min} . Correspondingly, if the observed maximum temperature exceeds the maximum cutoff temperature (CO_{max}), then it is set equal to CO_{max} , prior to calculating the average. In corn, the base temperature and CO_{min} are 50°F and CO_{max} is 86°F (Gregoire, 2005). In alfalfa, the base temperature and CO_{min} are 41°F and CO_{max} is 110°F (Lee et al., 2010). Alfalfa and corn GDD (using 43-year average temperature data) began to accumulate in February and March, respectively (Figure 9) totaling about 5,600 for alfalfa and 3,600 for corn for the entire year. Corn is usually not planted until about May 1, so the accumulation of 400 GDD between January 1 and May 1 should not be considered in the total for corn.

Reference Evapotranspiration

Evapotranspiration (ET) refers to the volume of water used by a crop during a given time period. It includes water that is actively transported through the plant from the roots to leaves during transpiration and water that is lost from plant and soil surfaces through evaporation. If crops are healthy and soil moisture is not limiting, plant size and weather (radiation, air temperature, humidity, and wind speed) are the primary factors affecting crop ET (Allen et al., 1998). Reference ET (ET_o or ET_r, for example) refers to the ET of a reference crop such as grass (ET_o) or alfalfa (ET_r) that is of a certain height and is growing under optimum conditions for maximum production. Since measured reference ET has been correlated with measurements of the weather parameters referred to previously, it can be calculated when these parameters are available. Correction values or crop coefficients (K_c), if available, can then be applied to reference

ET to estimate a particular crop's actual ET rate or water requirement throughout the growing season. These estimates can then be used in irrigation scheduling.

An Excel spreadsheet developed by Snyder and Eching (2007) was used to calculate standardized grass (ET_o) and alfalfa (ET_r) reference ET with inputs of daily average air temperature (recorded from WS-1) and SR, RH, and wind (recorded from WS-2) from 1985 through 2011. Both ET_o and ET_r were less than 0.10 inch/day in January and December (Figure 10). At about the beginning of the growing season (May 1), ET_o ranged from 0.20 to 0.25 inch/day and ET_r ranged from 0.30 to 0.35 inch/day. Peak ET_o and ET_r occurred from late June to early July and averaged 0.30 and 0.43 inch/day, respectively (Figure 10). Cumulative annual reference ET averaged 87 inches for ET_r and 60 inches for ET_o.

Monthly and Yearly Averages Temperature

Tables 19, 20, and 22 show that January has been the coldest month of the year with average daily mean, maximum, and minimum temperatures of 30.1°F, 41.0°F, and 19.1°F, respectively. The warmest month has been July with average daily mean, maximum, and minimum air temperatures of 75.7°F, 91.0°F, and 60.3°F, respectively. The average daily mean, maximum, and minimum annual temperatures were 52.6°F, 66.3°F, and 38.8°F (Figure 11). There was a statistically significant linear trend of increasing average annual mean and maximum temperature from 1991 (51.4°F and 64.5°F, respectively) to 2003, the warmest year on record (54.7°F and 69.2°F, respectively), but the average annual mean and maximum temperatures have been below the long-term mean from 2008 through 2011, (Table 20 and Figure 11).

Precipitation

Total monthly precipitation averaged slightly over 1 inch in August, September, and October, the three wettest months of the year, to less than 0.25 inch in June, the driest month of the year (Table 24). Average annual precipitation was 8.08 inches and ranged from a high of 14.58 inches in 1986 to a low of 3.57 inches in 1976 (Table 24). Accurate and regular snowfall measurements did not appear to be taken prior to 1987. From 1987 through 2011, the greatest total monthly snow depths of 19.0 inches (two events at 9.5 inches average per event) and 21.3 inches (5 events at 4.3 inches average per event) occurred in December and February, respectively, in 1987 (Table 25). December had a slightly higher average measurable snow frequency (2.9 days/month) and depth per month (3.5 inches) than January and February (Table 25).

Evaporation and Reference Evapotranspiration

Total monthly ETos during the growing season months averaged 4 inches in October to 9 inches in June (Figure 12). Average monthly ETs and PAN were similar and ranged from about 6 inches in October to 13 inches in June (Figure 12 and Table 28).

Growing Degree-Days

Total monthly growing degree-day accumulation averaged about 250 for alfalfa in March and corn in April to about 1,000 per month for alfalfa and 700 per month for corn in July and August (Figure 13).

Wind

Since 1980, wind run measured at a height of 6 feet has averaged 120 mpd (5 mph), ranging from a low of 88 mpd (3.7 mph) in 1988 to a high of 142 mpd (5.9 mph) in 1990 and 1996 (Table 26). On a monthly basis, daily wind run has averaged 150 mpd (6.3 mph) in March and April (the windiest months) and about 105 mpd (4.4 mph) in the calmest months of August through October (Table 26).

Solar Radiation

From 1977 through 2011, daily solar radiation has averaged 427 Ly, ranging from a low of 347 Ly per day in 1979 to a high of 482 Ly per day in 2003 and 2008 (Table 27).

Polynomial Regression Data Fit

To facilitate climatological modeling, polynomial regression (CoStat, 2008) was used to formulate the best line fits to daily data means shown in Figures 4 through 7 and 9 and 10 (Equations 1 through 11). Table 29 lists the coefficients that define these lines.



Dan Smeal has been conducting water-related research at NMSU's Agricultural Science Center at Farmington since 1983. Studies have focused on evaluating relationships between crop water use and production (or quality), and development of sprinkler and drip irrigation scheduling recommendations. Dan is a Certified Sprinkler Irrigation Designer and Landscape Irrigation Auditor.

LITERATURE CITED

- Allen, R.G., L.S. Pereira, D. Raes, and M. Smith. 1998. Crop evapotranspiration: Guidelines for computing crop water requirements [FAO Irrigation and Drainage Paper 56]. Rome: Food and Agriculture Organization of the United Nations.
- American Horticultural Society. 2013. American Horticultural Society plant heat zone map [Online]. Retrieved February 7, 2013, from http://www.ahs.org/pdfs/05_heat_map.pdf
- Arizona Cooperative Extension. 1998. Arizona Master Gardener manual [Online]. Retrieved February 7, 2013, from <http://ag.arizona.edu/pubs/garden/mg/vegetable/temperature.html>
- Brenzel, K.N. (Ed.). 2007. *Western garden book*. Menlo Park, CA: Sunset Publishing Corporation.
- CoStat. 2008. CoHort software. Monterey, CA.
- Google. 2013. Google Earth software. Mountain View, CA.
- Gregoire, T. 2005. Growing degree days and corn maturity [Online]. Retrieved September 19, 2013 from <http://www.ag.ndsu.edu/extension/procrop/growing-degree-days-and-corn-maturity>
- Lee, K., M. Allen, and R. Leep. 2010. Predicting optimum time of alfalfa harvest [Online]. Retrieved February 5, 2013, from <http://www.extension.org/pages/25471/predicting-optimum-time-of-alfalfa-harvest>
- Longstroth, M. 2001. Assessing frost damage to fruit buds of fruit trees [Online]. Retrieved February 7, 2013, from <http://www.msue.msu.edu/vanburen/frstflw.htm>
- National Climatic Data Center. 2013. U.S. climate regions [Online]. Retrieved February 5, 2013, from <http://www.ncdc.noaa.gov/temp-and-precip/us-climate-regions.php>
- Pathak, T.B., K.G. Hubbard, and M. Shulski. 2012. Soil temperature: A guide for planting agronomic and horticulture crops in Nebraska [Online]. Retrieved February 5, 2013, from <http://www.ianrpubs.unl.edu/epublic/pages/publicationD.jsp?publicationId=1457>
- Snyder, R.L., and S. Eching. 2003 (revised 2007). Penman-Monteith daily calculator [Online]. Retrieved February 5, 2013, from <http://biomet.ucdavis.edu/Evapotranspiration/PMdayXLS/PMday.xls>
- USDA-ARS. 2013. USDA plant hardiness zone map [Online]. Retrieved February 7, 2013, from <http://planthardiness.ars.usda.gov/PHZMWeb/>
- USDA-NRCS, 2013. Solar radiation unit conversions [Online]. Retrieved February 7, 2013, from <http://www.wcc.nrcs.usda.gov/ftpref/wntsc/H&H/GEM/SolarRadConversion.pdf>

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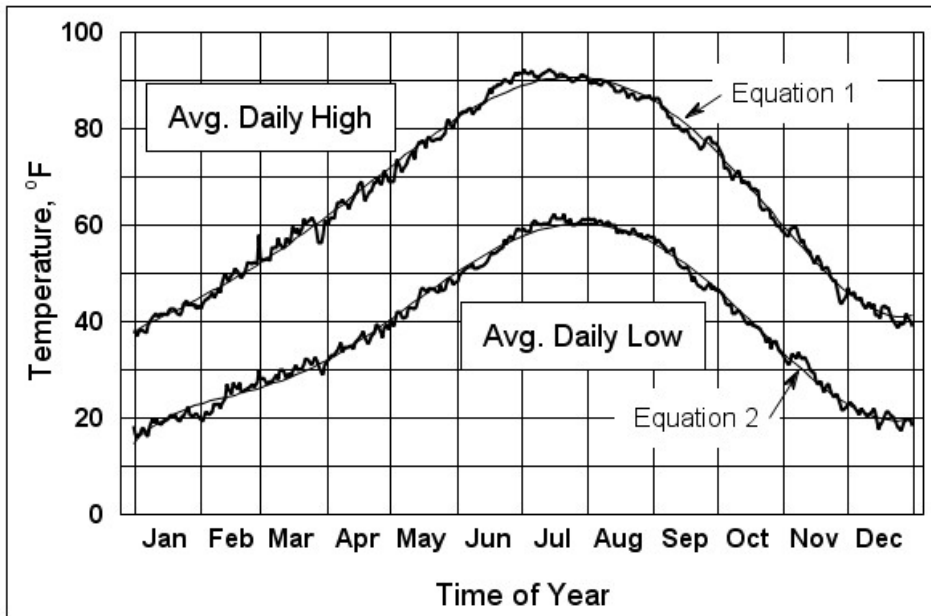


Figure 4. Average daily high and low temperatures at NMSU's Agricultural Science Center at Farmington, 1969–2011. See Table 29 for coefficients of best line fit equations 1 and 2.

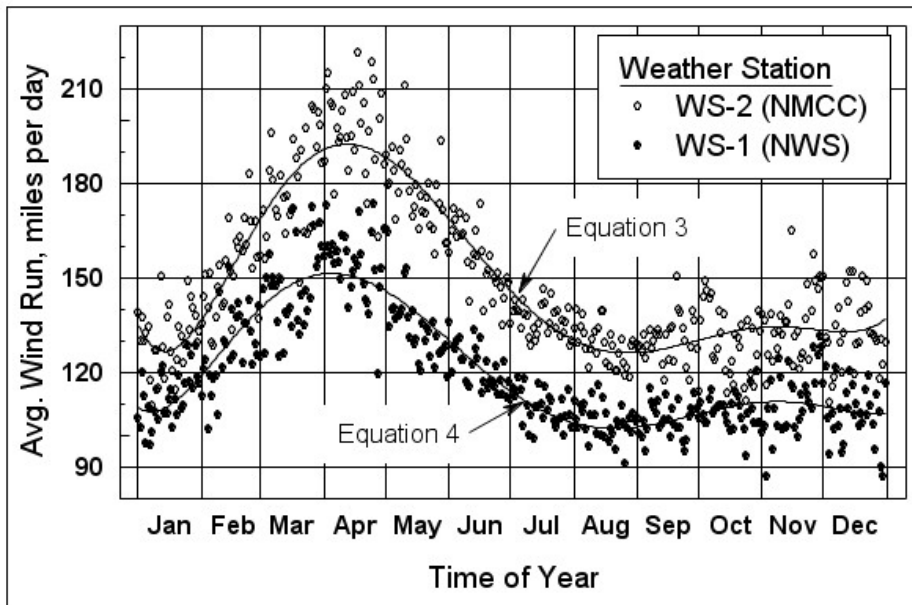


Figure 5. Average daily wind run measured at WS-1 and WS-2 at NMSU's Agricultural Science Center at Farmington, 1980–2011. See Table 29 for coefficients of best line fit equations 3 and 4.

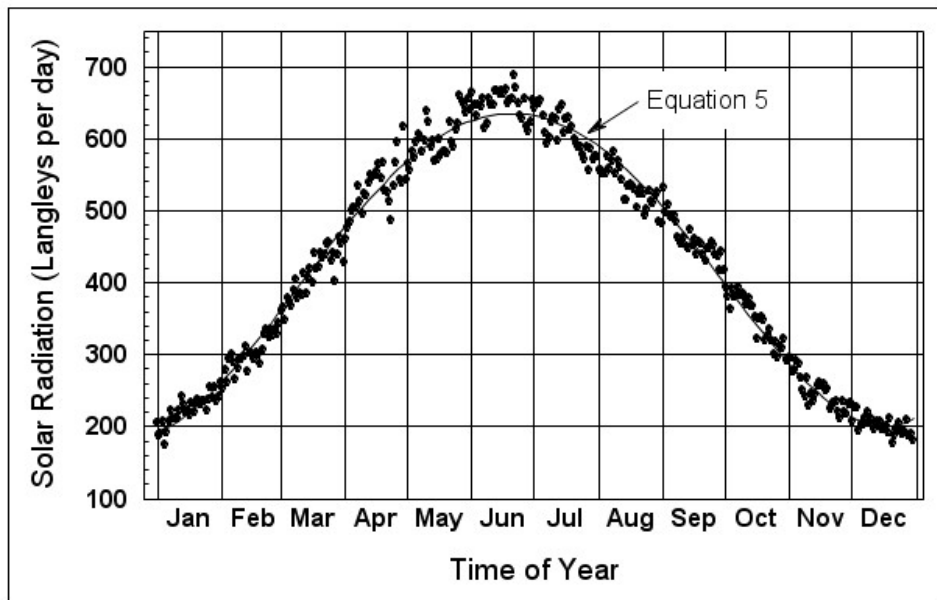


Figure 6. Average daily solar radiation at NMSU's Agricultural Science Center at Farmington, 1972–2011. See Table 29 for coefficients of best line fit equation 5.

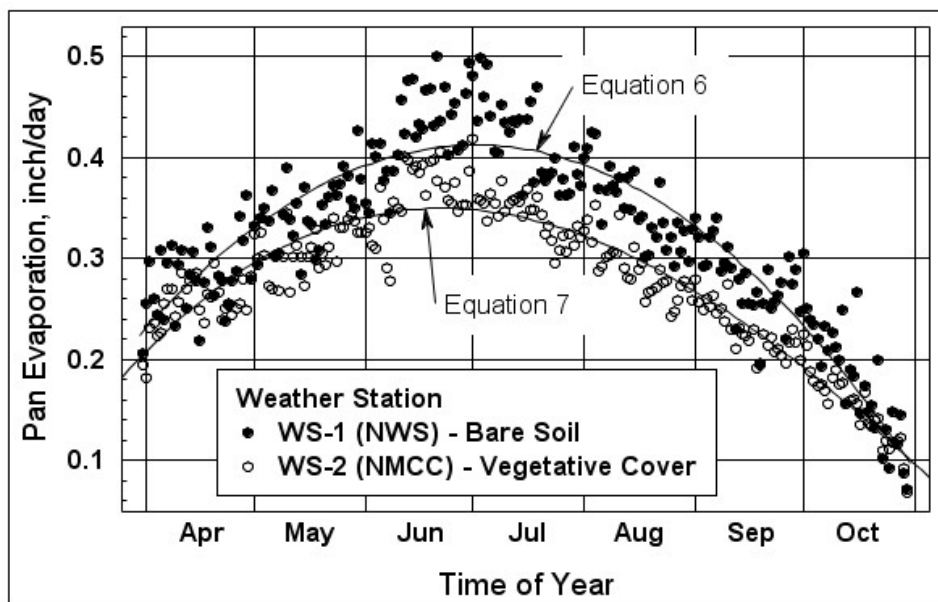


Figure 7. Average daily PAN evaporation measured at WS-1 and WS-2 at NMSU's Agricultural Science Center at Farmington, 1985–1994. See Table 29 for coefficients of best line fit equations 6 and 7.

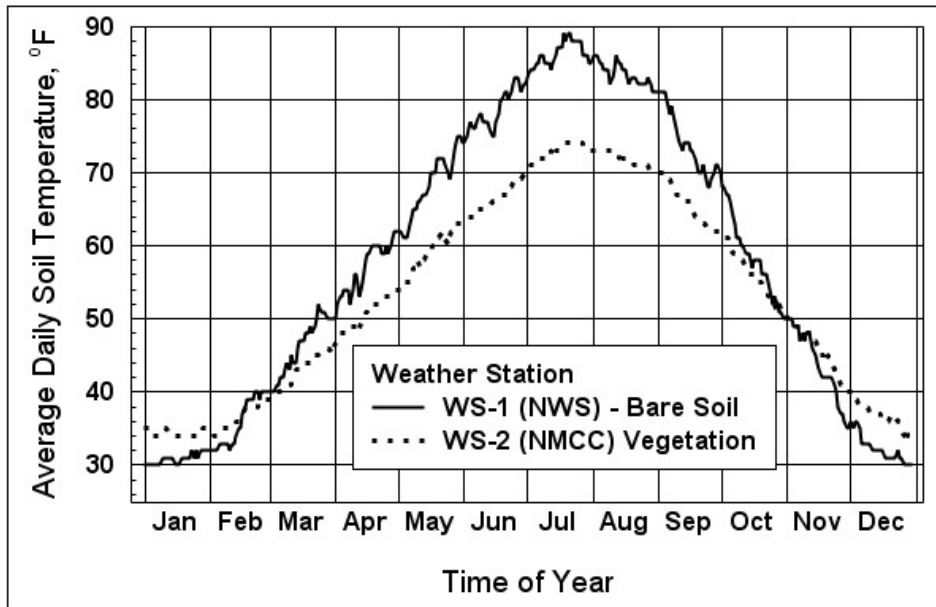


Figure 8. Average daily soil temperature measured at WS-1 and WS-2 at NMSU's Agricultural Science Center at Farmington, 2001–2011.

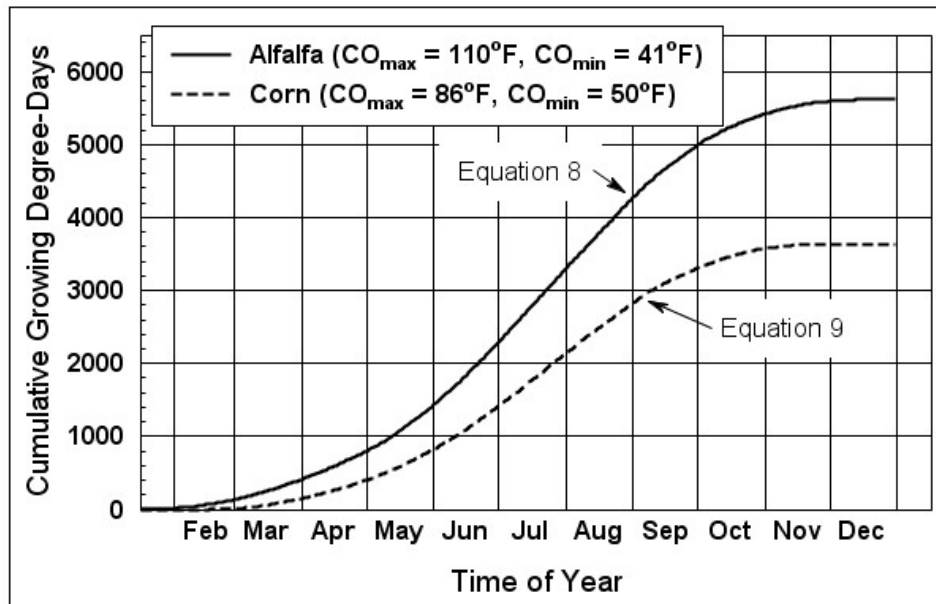


Figure 9. Cumulative average growing degree-days for alfalfa and corn at NMSU's Agricultural Science Center at Farmington, 1969–2011. See Table 29 for coefficients describing equations 8 and 9.

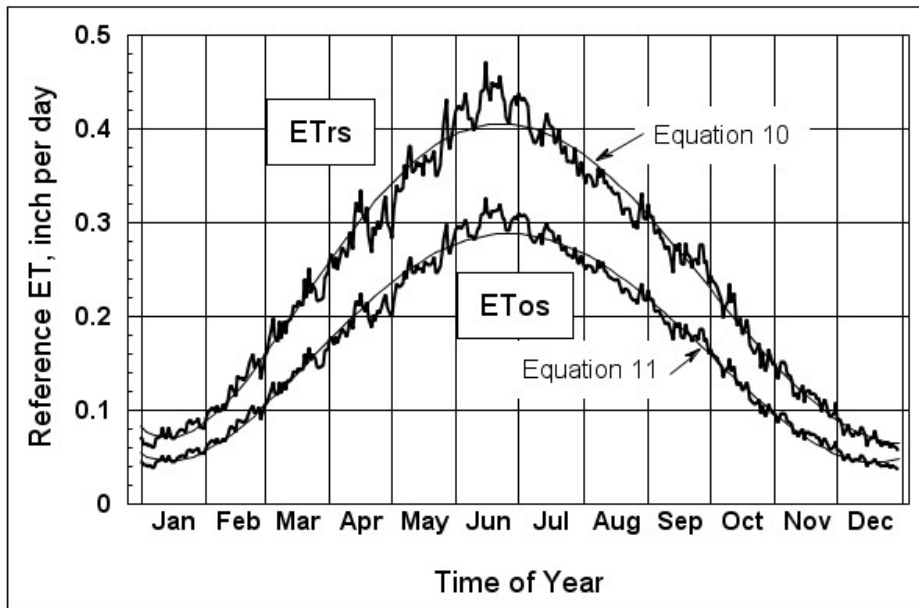


Figure 10. Average daily reference ET at NMSU’s Agricultural Science Center at Farmington, 1985–2011. See Table 29 for coefficients of best line fit equations 10 and 11.

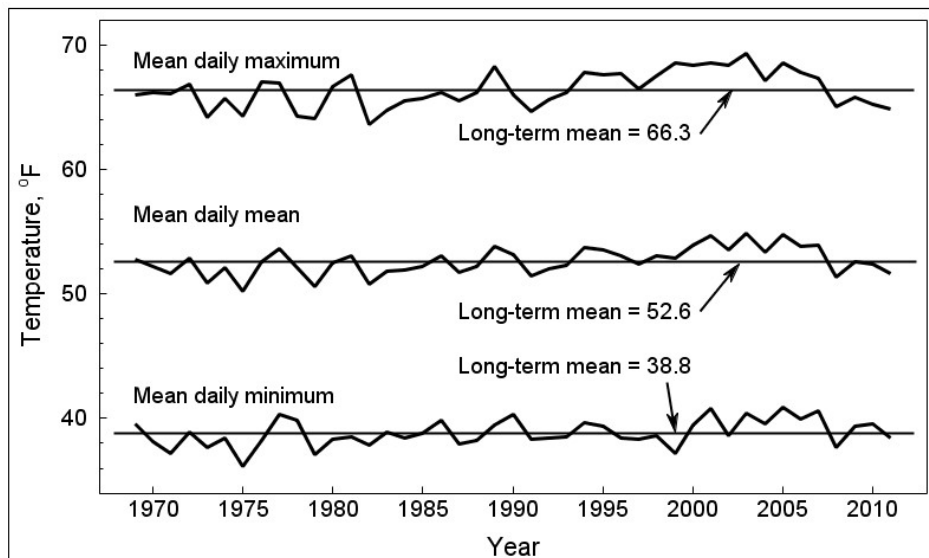


Figure 11. Average daily maximum, mean, and minimum air temperature for each year at NMSU’s Agricultural Science Center at Farmington, 1969–2011.

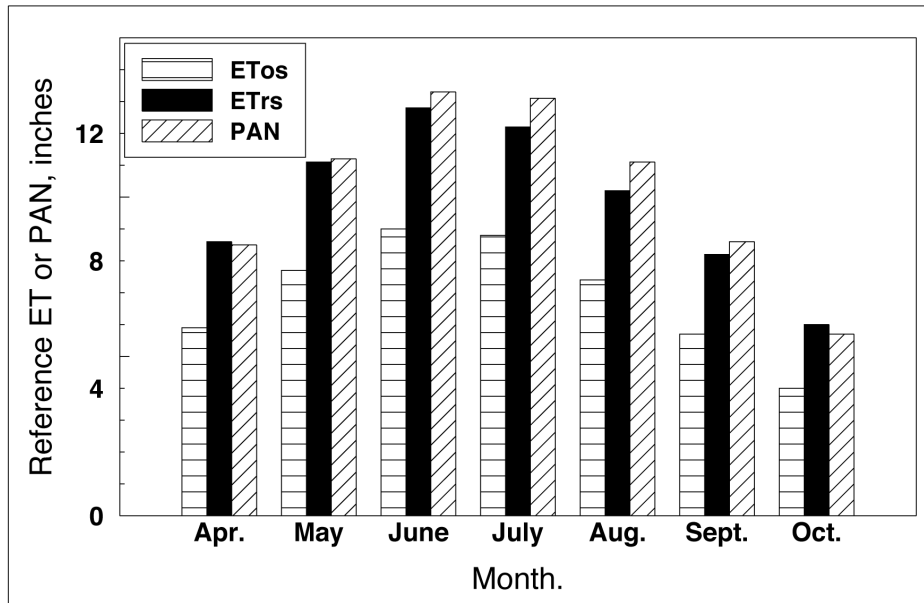


Figure 12. Average monthly grass reference ET (ETos), alfalfa reference ET (ETrs), and PAN at NMSU's Agricultural Science Center at Farmington, 1985–1994.

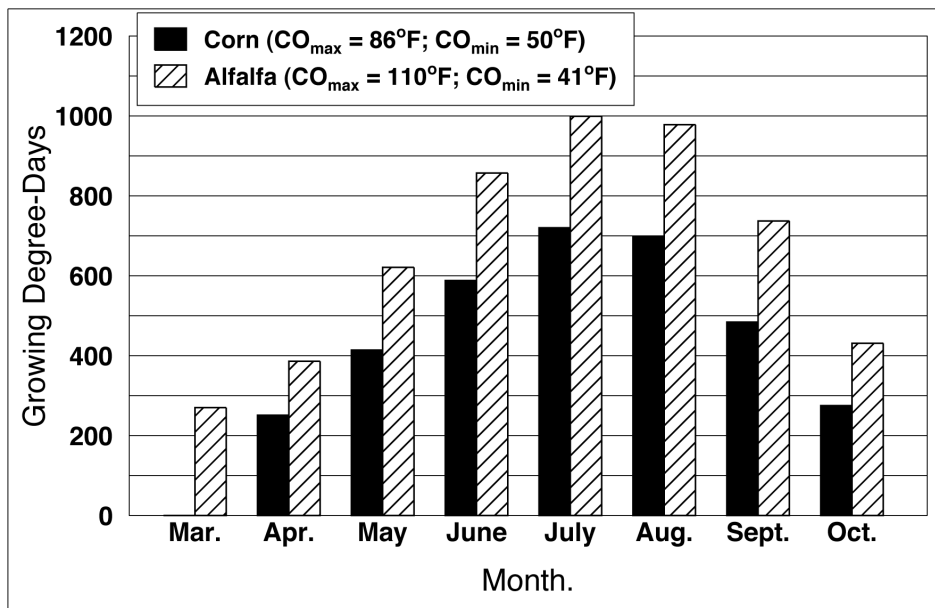


Figure 13. Average monthly growing degree-days for corn and alfalfa at NMSU's Agricultural Science Center at Farmington, 1969–2011.

Table 1. Average January High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each January Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Jan	38	18	60	1981	-5	2011	0.30	1974	4	0.61
2-Jan	38	17	57	2006	-4	1976	0.19	1974	8	0.68
3-Jan	37	16	58	1997	-11	1974	0.26	2009	9	1.03
4-Jan	38	17	56	1987	-9	1974	0.19	1991	7	0.74
5-Jan	38	18	58	1994	-11	1971	0.35	1988	13	1.45
6-Jan	38	18	55	2003	-13	1971	0.12	1993	9	0.57
7-Jan	38	16	55	2006	-18	1971	0.45	1993	5	0.96
8-Jan	39	16	53	2003	-8	1971	0.17	1993	7	0.69
9-Jan	40	18	56	1996	1	1971	0.15	2001	6	0.39
10-Jan	41	20	57	2005	-2	1977	0.29	2005	5	0.55
11-Jan	41	19	56	2007	0	1977	0.07	1980	6	0.28
12-Jan	42	20	56	1990	-3	1988	0.26	1979	5	0.63
13-Jan	41	19	56	1986	0	1977	0.13	1997	5	0.26
14-Jan	42	19	59	1980	1	1977	0.01	1980, 1993	2	0.02
15-Jan	41	19	59	2000	-1	1997	0.29	1978	6	1.11
16-Jan	41	19	66	2000	2	1997	0.28	1993	6	0.67
17-Jan	41	20	58	2000	-7	2008	0.41	1983	6	0.60
18-Jan	42	20	61	2000	-2	2008	0.80	1993	7	1.76
19-Jan	43	20	62	1999	-2	2008	0.18	2006	10	0.79
20-Jan	43	20	64	1986	3	1997	0.78	1980	10	1.45
21-Jan	42	21	57	2000	-2	1988	0.31	2010	4	0.40
22-Jan	41	19	55	1994, 2005	-2	1988	0.11	1969	5	0.32
23-Jan	41	19	58	1986	1	1973	0.26	1997	3	0.41
24-Jan	42	20	58	1999	5	1974	0.07	1989	6	0.20
25-Jan	44	20	62	1999	1	1988	0.29	1997	7	0.79
26-Jan	44	21	61	1972, 1975	5	1988	0.23	2005	8	0.63
27-Jan	43	22	59	2002	9	1979, 1988	0.94	1989	8	2.12
28-Jan	44	21	57	2003	0	1990	0.19	2010	5	0.37
29-Jan	43	20	63	1986	5	1974	0.20	1980	6	0.47
30-Jan	43	21	64	1986	-8	1979	0.11	2006	9	0.40
31-Jan	43	21	60	1971	3	1979	0.23	1978	7	0.96

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 2. Average February High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each February Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Feb	43	20	59	1971	-1	1985	0.19	1996	4	0.23
2-Feb	43	19	60	1995	0	2011	0.75	1988	5	0.90
3-Feb	43	19	61	1995	-6	2011	0.36	2008	7	0.91
4-Feb	45	21	58	2009	0	2011	0.23	1994	7	0.67
5-Feb	44	21	60	2009	1	1985	0.07	1983	4	0.16
6-Feb	45	20	62	2001	-7	1989	0.30	1986	5	0.41
7-Feb	46	21	62	2009	-14	1989	0.28	2005	11	0.89
8-Feb	45	23	61	1976, 2000	1	1974	0.62	2001	13	2.11
9-Feb	45	22	65	1999	7	1982	0.34	2009	5	0.54
10-Feb	47	23	61	1987, 1996	1	2011	0.11	1982	8	0.29
11-Feb	46	22	61	1970	7	2011	0.47	2005	5	0.81
12-Feb	48	23	61	1970	7	1999	0.20	2003	8	0.79
13-Feb	50	24	60	1996, 1999	6	2004	0.09	1992	5	0.31
14-Feb	49	27	62	1996	13	2004	0.41	1998	10	0.97
15-Feb	48	26	65	1996	13	2002	0.17	1986	8	0.62
16-Feb	50	25	64	1996	4	1990	0.17	1975, 1978	8	0.61
17-Feb	50	27	65	1970, 1996	0	1978	0.16	2003	6	0.44
18-Feb	51	26	64	1970	3	1978	0.39	2005	8	0.64
19-Feb	50	26	65	1981	12	1978	0.21	1987	8	1.16
20-Feb	50	27	65	1972, 1981, 1995, 2000	17	2009	0.26	1980	8	0.73
21-Feb	49	25	68	1995	5	1971	0.30	2010	8	0.82
22-Feb	50	26	64	1982, 2007	5	1971	0.17	2008	5	0.32
23-Feb	51	26	66	1995	10	1975	0.35	2004	8	0.62
24-Feb	52	26	67	1981	10	1974	0.43	1982	8	1.31
25-Feb	52	26	69	1986, 2009	13	1971	0.81	1987	6	1.35
26-Feb	52	27	70	1986	9	1971	0.21	2003	7	0.51
27-Feb	52	26	69	1986	5	1971	0.31	2003	8	1.05
28-Feb	52	27	67	2006	8	1987	0.44	1993	10	1.16
29-Feb	58	30	68	1976	23	1996, 2000	0.00	n/a	0	0.00

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 3. Average March High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each March Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Mar	53	28	69	2008	9	1987	0.38	1995	10	1.61
2-Mar	53	28	70	2009	8	2002	0.32	1981	7	0.92
3-Mar	53	27	68	1986, 1999, 2006	3	2002	0.35	1995	6	0.99
4-Mar	53	27	70	2000	6	2002	0.15	2003	7	0.46
5-Mar	53	28	68	1972, 1986	13	1997	0.30	1995	5	0.52
6-Mar	55	27	72	1972	9	1971	0.30	2000	3	0.34
7-Mar	55	28	70	1972	10	1971	0.77	2001	13	2.15
8-Mar	55	29	74	1989	17	1988, 1991	0.20	1973	7	0.50
9-Mar	57	28	79	1989	11	2002	0.41	2010	6	1.19
10-Mar	56	30	81	1989	15	1998	0.39	1981	10	1.57
11-Mar	55	30	74	1972	13	1969	0.43	1985	12	1.76
12-Mar	55	29	71	1972, 1989	11	1976	0.08	1975, 2009	6	0.26
13-Mar	57	28	74	1972, 2003	11	1976	0.36	1981	9	1.13
14-Mar	56	29	75	2007	9	1988	0.18	1991	7	0.40
15-Mar	57	29	71	1994, 2007	14	1971	0.22	1975	7	0.58
16-Mar	59	30	74	1994	17	1976	0.28	2001	6	0.80
17-Mar	58	31	76	2007	13	1980	0.16	1983	5	0.33
18-Mar	59	30	76	2007	11	1970	0.22	1987	6	0.63
19-Mar	58	30	76	2004	11	1970	0.27	1985	4	0.57
20-Mar	59	30	82	2004	20	2010	0.31	1983	7	0.87
21-Mar	61	31	78	2004	16	1976	0.33	1983	10	1.13
22-Mar	60	32	80	2004	19	1976	0.21	2000	6	0.48
23-Mar	61	32	75	2004	18	1975	1.13	2007	5	1.31
24-Mar	61	31	77	1998	19	1982	0.18	1983	4	0.47
25-Mar	62	31	77	2004	17	1969	0.05	2005	1	0.05
26-Mar	60	32	77	1971	16	1970	0.55	1982	10	1.82
27-Mar	58	32	77	1971, 1988	21	1975, 2009	0.39	1981	11	1.35
28-Mar	56	31	75	1986	9	1975	0.41	1985	13	1.67
29-Mar	56	29	73	1999	11	1975	0.25	1973	13	1.21
30-Mar	58	29	77	1971	13	1987	0.34	1992	9	0.88
31-Mar	61	31	79	1978	18	1995	0.32	2006	8	0.77

*Number of years between 1969 and 2011 in which measurable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 4. Average April High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each April Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Apr	60	32	76	1996, 2002	18	1971, 1980	0.49	1986	10	1.38
2-Apr	61	32	79	2011	16	1979	1.19	2004	8	2.55
3-Apr	62	33	75	2002, 2005, 2006	19	1975	1.26	1997	8	2.10
4-Apr	61	33	76	2002	20	1970	0.62	1997	7	1.20
5-Apr	63	34	78	2002	19	1981	0.15	1984	5	0.25
6-Apr	65	34	79	1991	19	2009	0.22	2002	6	0.60
7-Apr	65	35	78	1978, 1989, 2005	25	1983, 2010	0.38	2004	7	0.64
8-Apr	65	33	78	1977, 1989, 1996	18	1973, 1980	0.17	2007	4	0.38
9-Apr	65	35	81	1977	20	1980	0.36	1978	5	0.56
10-Apr	64	34	78	1972	21	1988, 1999, 2011	0.21	1979	6	0.53
11-Apr	63	35	78	1998	20	1997	0.20	2009	7	0.56
12-Apr	64	35	80	1992, 2006	19	1997	0.49	1975	7	0.90
13-Apr	65	34	80	1992, 2002, 2006	18	1974	0.12	1975	5	0.23
14-Apr	67	36	78	2002	20	1974	0.04	1988	2	0.06
15-Apr	66	36	80	1990, 2008	21	1983	0.17	1988	8	0.51
16-Apr	68	36	81	1994	20	1999	0.22	1988	6	0.58
17-Apr	69	37	80	1987, 1994, 2001	23	1983	0.06	1990	4	0.11
18-Apr	67	38	81	2001	26	1978, 1986, 1998	0.50	1970	9	1.52
19-Apr	65	37	85	1989	23	1986	0.30	1995	5	0.50
20-Apr	66	35	85	1989	24	1973, 1982	0.39	1995	6	0.73
21-Apr	67	36	85	1989	25	1987	0.63	1985	9	2.60
22-Apr	67	37	85	2006	27	1970, 2002	0.17	1988	6	0.57
23-Apr	69	38	82	2006	25	1970, 2008	0.56	1997	10	2.18
24-Apr	69	39	82	1996	24	2008	0.38	1997	6	1.33
25-Apr	70	39	80	1981	21	2008	0.16	2011	7	0.25
26-Apr	68	37	81	2000	18	1984	0.37	1998	5	0.54
27-Apr	69	37	85	2000	18	2008	0.29	1984	6	0.58
28-Apr	71	39	84	1992, 2000	27	1970, 1991	0.78	1985	7	1.04
29-Apr	70	39	86	1992	20	1996	0.07	1990	5	0.20
30-Apr	69	38	85	1992	24	1970, 1975	0.19	1990	8	0.66

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 5. Average May High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each May Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-May	69	40	85	2001	24	2008	0.51	1990	12	1.86
2-May	69	39	82	1986, 2000	15	2008	0.37	2009	8	1.17
3-May	71	40	85	2000	20	2008	0.40	1999	5	0.95
4-May	73	42	86	2000	25	2008	0.38	1982	2	0.48
5-May	72	42	87	2000	30	1991	0.44	1978	9	1.34
6-May	71	41	84	1989, 1996, 2000	25	1975	0.56	1969	11	1.79
7-May	71	40	89	1989	23	1975	0.32	1976	6	0.92
8-May	72	41	86	1989	27	1984	0.09	1971	5	0.18
9-May	73	42	86	1974, 1989	31	1971	1.19	1992	3	1.29
10-May	74	43	87	2004	29	2003	0.12	1979	3	0.16
11-May	75	43	86	1996	29	1979	0.57	1994	4	0.66
12-May	74	43	90	1996	27	2010	0.20	1982	4	0.38
13-May	76	43	90	1984	28	2008	0.04	1973	3	0.07
14-May	77	45	89	1984	29	1985	0.22	1977	3	0.36
15-May	77	47	88	1996	31	1983, 1998	0.24	2008	3	0.35
16-May	78	47	87	1988, 1996	36	1982	0.13	1995	3	0.31
17-May	76	46	89	2003, 2006	27	1983	0.25	1981	2	0.35
18-May	78	46	90	1996	31	1983	0.86	1988	3	1.12
19-May	78	47	90	2006	32	1983	0.70	2001	8	1.40
20-May	77	47	94	2005	28	1974	0.30	2007	7	0.94
21-May	77	47	90	2005	32	1974	0.38	1997	9	1.00
22-May	78	46	92	2005	35	1975, 2002	0.09	1975	10	0.42
23-May	78	46	93	2005	34	1975	0.50	1999	5	1.36
24-May	78	47	93	2005	33	1971	0.19	1994	4	0.33
25-May	78	46	92	2006	27	1980	0.53	1994	6	1.02
26-May	79	46	90	2001	30	1980	0.24	1973	4	0.35
27-May	81	48	93	2003	35	1987	0.29	1981	1	0.29
28-May	82	49	94	2000, 2003	34	1973	0.20	1995	4	0.41
29-May	80	49	97	2000	38	2006	0.25	1981	6	0.72
30-May	80	47	95	2002, 2003	34	1971	0.00	n/a	0	0.00
31-May	81	48	98	2002	34	1988	0.24	1991	4	0.48

*Number of years between 1969 and 2011 in which measurable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 6. Average June High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each June Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Jun	82	48	96	2003	38	1971, 1980, 1988	0.10	1991	3	0.17
2-Jun	83	50	92	2004, 2006	35	1990	0.10	1973	5	0.23
3-Jun	83	50	94	2004	41	1989	0.19	1986	3	0.44
4-Jun	84	51	95	2006	37	2005	0.43	1973	4	0.64
5-Jun	83	51	95	2006	32	1999	0.08	1984	2	0.12
6-Jun	84	51	99	2006	38	1982	0.33	1970	2	0.59
7-Jun	84	51	96	2006	38	2007	0.36	1997	5	0.42
8-Jun	83	52	95	2002	38	1974, 2007	0.22	2006	7	0.58
9-Jun	83	51	95	1985	36	1979	0.10	2000	6	0.33
10-Jun	84	51	95	1985	39	1979, 1995	0.10	1975	3	0.17
11-Jun	84	51	93	1981, 1994, 2006	38	1975	0.44	1970	3	0.69
12-Jun	85	51	95	2006	40	2008	0.10	2007, 2010	3	0.26
13-Jun	85	51	96	2006	41	2008	0.06	2009	2	0.07
14-Jun	86	52	96	1974, 2006	36	1983, 2001	0.30	1996	4	0.76
15-Jun	87	52	97	1974	37	1981	0.39	1984	3	0.50
16-Jun	88	53	95	1985, 2007	36	1981	0.05	1999	4	0.11
17-Jun	87	54	95	1974, 2001	44	1992	0.14	1969	5	0.32
18-Jun	88	54	98	1989	38	1995	0.02	1994	1	0.02
19-Jun	89	54	99	2006	40	1998	0.02	1999	2	0.03
20-Jun	89	54	97	1974, 2002, 2005	41	1973	0.09	1999	3	0.18
21-Jun	89	55	98	2005	44	2000	0.13	1996	2	0.18
22-Jun	90	55	99	1988	42	1989	0.07	1976	2	0.12
23-Jun	90	57	98	1981, 1990	46	1995	0.17	1983	3	0.29
24-Jun	90	56	98	1981	42	1976	0.21	1986	5	0.48
25-Jun	90	58	100	1981, 1990, 1994	43	1976	0.35	1969	6	0.76
26-Jun	89	57	100	1990	40	1975	0.34	1969	6	0.79
27-Jun	90	57	99	1990	39	1985	0.15	1996	4	0.18
28-Jun	91	58	99	1980, 1990	45	1985	0.08	2004	2	0.15
29-Jun	91	59	99	1998	51	2003	0.07	1980	4	0.13
30-Jun	91	59	103	1990	51	1970	0.44	1981	4	0.71

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 7. Average July High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each July Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Jul	91	59	99	1998, 1999, 2002	51	2011	0.31	2008	4	0.87
2-Jul	92	59	100	2002	47	1982, 1992	0.19	1979	1	0.19
3-Jul	92	58	98	1989, 2007	49	1992	0.10	1995	3	0.26
4-Jul	91	58	100	1989	45	1969, 1995	0.10	1986	3	0.21
5-Jul	92	59	102	1989	43	1969	0.25	2006	5	0.36
6-Jul	92	60	103	1989	44	1969	0.39	2006	3	0.63
7-Jul	91	61	100	1989	53	1980, 1982	0.17	1990	11	0.69
8-Jul	91	60	100	1989, 1995	46	1993	0.56	1999	10	2.88
9-Jul	90	60	99	1976, 2003	50	1999	0.52	1999	11	1.52
10-Jul	91	60	100	1976, 2003	53	1979, 1982, 2003	0.44	2001	5	0.67
11-Jul	91	60	100	2003	52	1979	0.42	2007	9	1.09
12-Jul	91	60	101	2005	55	1979, 2011	0.39	1992	8	1.06
13-Jul	92	60	101	2003	52	1979	0.20	1981, 1984	8	0.58
14-Jul	92	60	102	2003	51	1992	0.80	1974	7	1.59
15-Jul	92	61	103	2003	53	1992, 1995	0.12	2001	6	0.40
16-Jul	92	62	99	1971, 2005	55	1990, 1992, 1999	0.35	1979	15	1.98
17-Jul	91	61	100	2005, 2006	55	1992, 1993	0.59	2000	13	1.70
18-Jul	91	61	99	1989, 2005	50	1993	0.26	1977	10	0.95
19-Jul	91	61	100	1998, 2005	51	1987	0.78	1986	9	1.65
20-Jul	91	61	102	2005	54	1973, 1995	0.69	1986	7	1.44
21-Jul	91	62	103	2005	55	1996	0.80	1986	12	1.54
22-Jul	91	61	101	2003	53	1991, 1993	0.39	1986	9	1.58
23-Jul	90	61	99	2005	50	1995	0.22	1989	8	0.69
24-Jul	90	61	99	2005	54	1979, 1986, 2000	0.53	1998	15	2.49
25-Jul	90	60	97	2003	44	1981	0.19	1983, 1999	11	1.02
26-Jul	90	60	97	2003	45	1981	0.27	2011	13	1.43
27-Jul	90	60	97	1995	54	1993	0.43	1989	14	1.08
28-Jul	90	60	100	1995	49	1981	0.36	1982	11	1.23
29-Jul	91	61	101	1995	52	2004	0.42	1983	7	0.72
30-Jul	91	61	100	1972	55	1975, 1996	0.56	1988	13	2.09
31-Jul	91	61	99	2002	52	2000	1.16	1989	6	1.27

*Number of years between 1969 and 2011 in which measurable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 8. Average August High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each August Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Years of Highest	No. Years > 0*	Total for All Years
1-Aug	90	61	98	1972	55	1977	0.80	2010	10	1.93
2-Aug	90	61	99	1970	51	1975	0.36	1982	8	1.43
3-Aug	89	61	98	1977	49	1975	0.66	1999	8	1.14
4-Aug	90	61	97	1994	53	1975	0.68	2006	9	1.55
5-Aug	89	60	99	1983	52	1976, 1996	0.70	2005	12	1.80
6-Aug	89	60	98	2003	53	1990, 1996	0.30	2008	13	1.37
7-Aug	89	61	97	1995	54	1991, 1996	0.23	2010	9	0.97
8-Aug	89	60	96	2000	52	2009	0.09	1994	5	0.24
9-Aug	90	60	97	1969, 1998, 2000	48	2009	0.30	1984	4	0.34
10-Aug	90	60	98	2003	52	1974, 1996	0.32	1985	11	1.21
11-Aug	89	60	98	2003	55	1999	0.21	1988	10	0.69
12-Aug	89	60	97	1973	49	1999	1.13	1977	10	1.55
13-Aug	89	60	96	1970, 1996, 2003, 2007	49	1981	0.57	1990	10	1.19
14-Aug	88	60	96	1973, 1996	49	1981	0.59	1999	10	1.72
15-Aug	87	58	96	1973	48	1978	0.62	1983	9	1.66
16-Aug	88	59	94	1986, 1994, 2007	49	1981	0.51	1984	10	1.73
17-Aug	88	58	96	1986, 1994	51	2009	0.20	1989	8	0.48
18-Aug	88	58	98	2002	51	1979	0.41	1983	8	0.79
19-Aug	87	58	97	2002	48	1979	0.63	1987	10	2.28
20-Aug	86	58	94	1986	48	1980	1.10	1998	17	4.11
21-Aug	87	58	94	1986, 2003	41	1980	0.51	1985	9	1.37
22-Aug	87	59	95	2007	53	2000	0.38	2010	11	1.08
23-Aug	86	59	93	1973, 1988	52	1979, 1981, 2001	0.86	1987	13	4.05
24-Aug	86	58	95	2011	48	1989	0.79	1988	9	1.87
25-Aug	86	58	96	2002	48	1989, 1992	1.10	1982	11	2.13
26-Aug	86	58	94	1969, 2001, 2002	48	1992	0.24	1993	9	0.86
27-Aug	86	57	95	1970	46	1978, 1992	0.83	1993	10	1.83
28-Aug	86	57	95	1969	46	1978	0.16	1993	4	0.32
29-Aug	86	58	97	1969	51	1987	0.66	1986	5	0.95
30-Aug	87	58	95	1985	49	1975	0.63	2000	10	1.25
31-Aug	86	57	94	1995	49	1973	0.74	1997	10	1.39

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 9. Average September High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each September Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Sep	86	57	97	1995	47	1980, 1981	0.28	2011	6	0.52
2-Sep	86	56	94	1995	44	1973	0.48	1994	4	0.63
3-Sep	86	57	94	1995	40	1973	0.40	2004	3	0.64
4-Sep	85	56	95	1995	43	1973	0.44	1981	6	1.10
5-Sep	84	56	91	1976, 1977 1995	41	2004	0.44	1991	7	0.80
6-Sep	84	55	93	1977	44	2004	1.93	1970	6	2.59
7-Sep	83	54	94	1979	45	1970, 1999	1.10	1995	11	2.28
8-Sep	82	55	92	1979	40	2001	1.57	2002	11	3.82
9-Sep	82	55	94	1979	36	2001	0.61	2003	11	2.01
10-Sep	81	55	91	1974, 1990	46	2010	1.42	2002	13	3.58
11-Sep	81	53	91	1990	42	1986	0.58	1982	13	1.81
12-Sep	81	52	95	1969	37	1985	0.64	1991	14	2.66
13-Sep	80	52	93	1969, 1990	40	1985, 1989	0.64	1982	8	1.65
14-Sep	79	51	93	1990, 2000	36	1989	0.44	2006	8	1.13
15-Sep	79	51	92	2000	40	1987, 1988	0.66	1997	7	1.33
16-Sep	80	51	92	2000	39	1991	0.21	1990, 2007	6	0.73
17-Sep	79	51	92	2000	38	2006	0.26	1978	9	0.58
18-Sep	78	50	88	1998, 2010	28	1971	0.57	1985	9	1.88
19-Sep	78	48	89	2010	29	1996	0.85	2004	8	1.40
20-Sep	78	49	86	1998, 2005	33	1978	1.20	1969	12	3.10
21-Sep	77	48	86	2000, 2001	30	1983	0.22	1997	4	0.25
22-Sep	76	47	88	1993	31	2009	0.52	2010	9	1.01
23-Sep	75	47	87	2001	31	2006	0.72	1986	7	1.11
24-Sep	76	46	87	1998	33	2000	1.19	1978	4	1.27
25-Sep	77	47	88	2001	33	2000	0.58	1976	6	1.57
26-Sep	78	47	88	2005	34	1970	0.40	1976	4	0.52
27-Sep	78	48	89	2001	34	1996	0.32	2005	6	0.95
28-Sep	77	47	89	2001	31	1996	0.69	1990	7	1.97
29-Sep	77	47	88	2001	28	1999	0.39	1971	4	1.21
30-Sep	77	46	88	2010	31	1985	0.32	1997	4	0.75

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 10. Average October High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each October Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Oct	76	46	87	1987	31	1985	0.21	1983	8	0.81
2-Oct	75	46	84	2010	28	2009	0.83	1981	8	2.49
3-Oct	74	45	83	1988, 2005	32	1971	0.64	1969	9	1.65
4-Oct	71	45	83	2006	32	2002	0.59	2011	13	2.36
5-Oct	72	43	85	1999	30	1969	0.25	2010	11	1.13
6-Oct	71	43	84	1975	27	1998	0.53	1993	10	1.96
7-Oct	70	44	83	1979	28	2007	0.64	1972	8	1.03
8-Oct	69	42	82	1980	28	1992	0.51	2006	5	0.87
9-Oct	71	41	81	2003	28	1970	0.32	2000	8	1.24
10-Oct	71	42	82	1991, 1999	28	1982	0.31	1985	5	0.86
11-Oct	71	42	84	1999	28	2001	0.46	1986	6	1.14
12-Oct	69	41	82	1991	28	1982, 2008	0.19	1974	5	0.67
13-Oct	69	41	80	1979, 1989, 1998, 1999	23	1997	0.18	1972	7	0.57
14-Oct	68	40	80	1998, 1999	27	1975, 2008	0.35	2006	4	0.77
15-Oct	69	39	79	1979, 2011	28	1975	0.23	1980, 1994	5	0.57
16-Oct	68	40	80	1991	23	1984	0.39	1994	10	1.42
17-Oct	67	39	79	1973	21	1999	0.26	1993	9	1.09
18-Oct	67	39	78	1973, 2003	20	1999	0.36	1972	5	0.68
19-Oct	67	39	80	2003	24	1976	0.89	1990	5	1.52
20-Oct	67	39	78	1973, 1975, 1992	28	1995, 1999	0.88	1978	7	1.47
21-Oct	64	39	80	2003	26	1990, 1996	1.16	1979	8	1.96
22-Oct	63	37	80	2003	16	1996	1.47	1969	11	2.83
23-Oct	63	37	80	1973	22	2008	0.37	2000	9	1.66
24-Oct	63	35	75	1989, 2011	17	1980	0.40	2000	9	0.92
25-Oct	63	36	73	1988, 2005	22	1980	0.78	1998	11	1.85
26-Oct	61	34	79	1977	19	1997	0.74	2011	10	2.49
27-Oct	62	36	75	1985, 1990, 2001, 2007	21	1997	0.65	1974	9	2.25
28-Oct	60	36	76	2001	21	1970	0.63	2002	12	1.97
29-Oct	60	35	77	2001	21	1970, 1982	0.61	1987	9	1.72
30-Oct	60	34	78	2001	15	1989	0.18	1998	5	0.63
31-Oct	59	33	70	1988, 2001, 2008	19	1999	0.27	1986	9	0.91

*Number of years between 1969 and 2011 in which measurable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 11. Average November High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each November Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Nov	58	32	74	2008	15	1972	0.65	1986	6	1.00
2-Nov	58	32	74	2008	14	1989	0.39	1990	6	0.91
3-Nov	58	31	75	2001	11	1991	0.79	1978	7	1.52
4-Nov	59	31	74	1977, 2001	14	1992	0.11	2011	5	0.23
5-Nov	59	33	71	1975, 1977, 1999, 2009	20	1992	0.52	1987	2	0.64
6-Nov	60	32	75	1999	17	1993	0.48	1986	5	1.23
7-Nov	59	32	74	1999	13	2008	0.59	1977	7	1.64
8-Nov	58	33	71	1980, 1999	17	2000	0.61	1998	9	1.98
9-Nov	56	32	73	1980	18	1986	0.15	2004	7	0.43
10-Nov	57	32	74	2005	16	1986	0.70	2002	11	1.41
11-Nov	56	33	71	1973, 1999	19	1986, 1995	0.54	1994	11	1.96
12-Nov	54	31	72	1973	12	1975	0.71	2003	7	1.68
13-Nov	55	30	69	1999	15	2000	0.25	1970	9	0.72
14-Nov	54	30	70	1999	17	1982, 2010	0.35	1991	6	0.92
15-Nov	52	29	69	1999	16	1980, 1985	0.40	1991	4	0.65
16-Nov	52	27	68	1975, 1981, 1999	16	2005	0.53	1991	3	1.05
17-Nov	54	27	73	1975	12	2000	0.48	1983	6	1.26
18-Nov	52	27	69	2008	10	2000	0.37	1986	7	0.80
19-Nov	51	26	71	2007	8	1985	0.08	2004	6	0.26
20-Nov	51	25	64	2007	13	1980, 1985	0.12	1992	7	0.46
21-Nov	51	27	64	2006	16	1993	0.11	1971	5	0.29
22-Nov	50	27	65	2006	11	1975	0.25	2001	7	0.59
23-Nov	49	26	63	1981, 1998	9	1999	0.44	2000	2	0.56
24-Nov	48	24	66	1981	8	1979	0.21	1978	8	0.65
25-Nov	49	25	64	1970	6	2010	0.54	1978	7	1.65
26-Nov	47	25	64	1995	7	1975, 1992, 2010	0.20	1996	8	0.45
27-Nov	44	23	67	1998	8	1993	0.43	2008	5	0.67
28-Nov	44	22	63	1999	4	1976	0.41	1991	8	0.94
29-Nov	44	22	65	1998	1	1976	0.35	1996	9	0.83
30-Nov	45	22	62	1999	4	2006	0.38	2007	2	0.55

*Number of years between 1969 and 2011 in which measureable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 12. Average December High and Low Temperature, Highest and Lowest Temperature Recorded and Years of Occurrence, Highest Recorded Precipitation and Year(s) of Occurrence, and Number of Years Precipitation Occurred on Each December Date at NMSU's Agricultural Science Center at Farmington, 1969–2011

Date	Air Temperature (°F)						Precipitation (inches)			
	Average High	Average Low	Highest Recorded	Year(s) of Highest	Lowest Recorded	Year(s) of Lowest	Highest Recorded	Year(s) of Highest	No. Years > 0*	Total for All Years
1-Dec	47	22	67	1999	8	1996	0.19	2002	5	0.41
2-Dec	46	23	61	1995	5	1991	0.18	1997	4	0.25
3-Dec	46	22	59	2001, 2010	3	1991	0.06	1983	3	0.11
4-Dec	46	22	63	1980	1	2009	0.22	2001	6	0.55
5-Dec	45	21	61	1995	6	2005	0.48	1986	9	1.91
6-Dec	44	21	58	1995	2	1972	0.21	1986	6	0.41
7-Dec	45	22	63	1977	-1	1978	0.25	1997	10	0.81
8-Dec	44	22	61	1970	-8	1978	0.25	2008	7	0.70
9-Dec	42	20	58	1977	-9	1978	0.18	1982	6	0.66
10-Dec	43	20	59	1977	-2	1978	0.14	1982	6	0.48
11-Dec	44	21	63	1977	-2	1978	0.38	1991	4	0.67
12-Dec	43	21	57	1995	1	1978	0.40	1984	8	1.04
13-Dec	44	22	57	2004	8	1978	0.08	1984	7	0.26
14-Dec	41	21	59	2010	6	1972	0.17	1984	7	0.47
15-Dec	41	18	56	1977	1	1987	0.17	1990, 2004	8	0.64
16-Dec	41	18	55	1998	1	1987	0.18	2002	6	0.52
17-Dec	43	19	55	1970, 1980	4	1992	0.12	1995	7	0.32
18-Dec	43	21	58	1980	3	1996	0.33	1978	8	1.40
19-Dec	43	21	55	1969, 1998, 2003	8	1996	0.09	2011	5	0.19
20-Dec	43	21	56	1981	1	1992	0.11	1983	5	0.28
21-Dec	41	20	56	1969	-2	1992	0.13	2003	8	0.46
22-Dec	40	20	55	1994	2	1990, 1992	0.27	2008	12	1.05
23-Dec	39	19	53	1969, 2005	-12	1990	0.17	1994	8	0.54
24-Dec	39	18	57	1971	-16	1990	0.10	1997	4	0.17
25-Dec	40	18	57	1971	-15	1990	0.18	1983	3	0.38
26-Dec	39	17	59	2005	-8	1990	0.47	1979	7	1.05
27-Dec	39	19	55	1980	-6	1990	0.18	1979	5	0.41
28-Dec	41	19	56	2004	5	1990	0.26	2006	9	0.74
29-Dec	41	19	60	2004	1	1988	0.31	2001	11	1.30
30-Dec	40	19	55	2011	-5	1990	0.28	1973	7	0.77
31-Dec	39	18	55	1996	-8	1990	0.07	1973	4	0.17

*Number of years between 1969 and 2011 in which measurable precipitation (equal to or greater than 0.01 inch) fell on the date.

Table 13a. Average (Avg.) and Maximum (Max.) Recorded Wind Run in Miles per 24-Hour Day (MPD) and Average (Avg.) Miles per Hour (MPH) Measured at a Height of 6 Feet for Each Day Between January 1 and June 30 at NMSU's Agricultural Science Center at Farmington, 1980–2011

Day	January			February*			March			April			May			June		
	MPD		MPH	MPD		MPH	MPD		MPH	MPD		MPH	MPD		MPH	MPD		MPH
	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.
1	105	237	4.39	112	242	4.68	125	246	5.20	157	268	6.54	165	594	6.88	136	309	5.65
2	102	231	4.27	121	242	5.03	146	282	6.09	173	324	7.20	164	571	6.85	120	166	5.00
3	120	319	4.98	124	255	5.15	126	235	5.24	160	321	6.65	135	256	5.60	128	182	5.32
4	112	274	4.67	102	207	4.25	150	375	6.24	157	282	6.55	140	270	5.83	128	189	5.31
5	97	247	4.06	119	267	4.94	157	462	6.55	161	318	6.69	140	303	5.84	130	238	5.40
6	109	230	4.54	112	210	4.69	147	282	6.14	154	292	6.43	137	371	5.70	131	269	5.45
7	97	179	4.03	118	206	4.92	150	301	6.25	158	306	6.59	138	206	5.73	124	212	5.16
8	101	182	4.19	119	224	4.95	147	311	6.13	155	336	6.45	139	330	5.77	124	229	5.15
9	107	216	4.47	107	170	4.44	136	260	5.67	149	239	6.21	140	257	5.83	117	241	4.87
10	114	203	4.76	145	373	6.04	125	207	5.20	164	355	6.81	152	316	6.31	116	207	4.83
11	105	216	4.36	121	271	5.05	149	356	6.21	163	285	6.79	153	266	6.37	115	274	4.80
12	120	266	5.00	130	237	5.41	126	239	5.23	158	315	6.60	137	403	5.73	123	190	5.10
13	122	284	5.08	129	239	5.36	139	242	5.77	140	358	5.85	131	229	5.45	133	259	5.55
14	107	222	4.46	153	352	6.39	138	280	5.76	147	279	6.13	139	239	5.80	128	201	5.31
15	107	289	4.45	124	338	5.15	140	231	5.85	152	304	6.32	129	188	5.37	124	264	5.18
16	111	252	4.64	140	282	5.82	134	265	5.60	156	353	6.49	130	222	5.42	131	222	5.44
17	114	473	4.76	125	214	5.23	172	406	7.16	154	267	6.41	123	200	5.10	113	198	4.72
18	102	215	4.27	137	222	5.72	164	343	6.85	171	304	7.11	120	200	5.01	117	228	4.88
19	111	212	4.65	142	500	5.92	136	268	5.68	157	260	6.55	136	350	5.65	123	196	5.14
20	106	253	4.43	138	368	5.75	132	289	5.49	148	243	6.15	130	251	5.42	115	190	4.79
21	119	400	4.95	123	212	5.12	144	258	6.01	143	222	5.95	134	268	5.57	117	241	4.86
22	108	261	4.51	135	289	5.64	135	236	5.63	142	219	5.92	133	198	5.54	117	169	4.87
23	109	215	4.56	135	284	5.64	146	328	6.07	138	369	5.77	125	216	5.21	115	182	4.80
24	116	220	4.84	143	268	5.94	139	295	5.80	165	378	6.86	136	266	5.67	122	194	5.08
25	128	244	5.34	133	241	5.53	143	302	5.96	174	327	7.23	121	206	5.05	113	192	4.69
26	117	205	4.86	122	238	5.09	172	417	7.18	152	294	6.34	131	259	5.47	117	228	4.89
27	125	233	5.22	129	307	5.36	167	458	6.94	119	257	4.97	126	224	5.24	113	184	4.70
28	115	229	4.78	125	264	5.23	153	306	6.38	147	403	6.12	126	195	5.27	123	206	5.14
29	128	309	5.35	141	218	5.86	156	335	6.50	153	281	6.37	127	256	5.28	112	168	4.66
30	118	238	4.92	-	-	-	167	295	6.97	165	401	6.89	129	214	5.35	117	203	4.86
31	116	197	4.85	-	-	-	160	390	6.66	-	-	-	119	214	4.94	-	-	-
Mean	112	250	4.67	128	267	5.32	146	306	6.08	154	305	6.43	135	275	5.62	121	214	5.05

*Wind data shown for February 29 reflect summaries of 7 (leap) years only.

Table 13b. Average (Avg.) and Maximum (Max.) Recorded Wind Run in Miles per 24-Hour Day (MPD) and Average (Avg.) Miles per Hour (MPH) Measured at a Height of 6 Feet for Each Day Between July 1 and December 31 at NMSU's Agricultural Science Center at Farmington, 1980–2011

Day	July			August			September			October			November			December		
	MPD		MPH	MPD		MPH	MPD		MPH	MPD		MPH	MPD		MPH	MPD		MPH
	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.	Avg.	Max.	Avg.
1	111	182	4.64	111	185	4.62	105	196	4.39	105	157	4.39	101	193	4.20	117	216	4.86
2	115	228	4.79	105	168	4.36	100	171	4.18	111	165	4.61	103	233	4.29	122	279	5.07
3	112	208	4.68	103	177	4.27	99	184	4.14	106	211	4.42	87	148	3.63	106	224	4.40
4	114	177	4.74	110	199	4.56	104	215	4.34	104	298	4.33	108	291	4.51	94	194	3.91
5	119	182	4.94	107	205	4.46	95	151	3.95	104	198	4.32	117	214	4.89	107	202	4.46
6	115	188	4.77	110	172	4.58	102	194	4.24	111	208	4.64	95	191	3.97	102	172	4.24
7	103	196	4.29	102	188	4.23	115	195	4.79	114	246	4.76	108	196	4.52	122	255	5.06
8	118	209	4.91	96	160	4.01	110	204	4.59	107	215	4.46	103	232	4.28	103	222	4.28
9	109	189	4.56	106	185	4.43	109	192	4.54	108	175	4.50	125	300	5.19	108	252	4.50
10	100	151	4.15	113	188	4.72	107	176	4.46	109	181	4.54	118	252	4.93	94	181	3.92
11	106	159	4.42	107	172	4.44	111	366	4.61	110	230	4.56	102	220	4.25	97	189	4.03
12	99	158	4.12	100	208	4.18	102	214	4.27	109	250	4.56	102	230	4.27	114	206	4.73
13	109	210	4.54	116	206	4.82	104	176	4.33	110	261	4.56	103	179	4.29	108	244	4.51
14	109	196	4.54	100	159	4.15	105	190	4.37	107	220	4.44	123	304	5.14	120	306	5.01
15	117	194	4.86	112	178	4.67	113	201	4.70	104	195	4.33	116	337	4.82	116	273	4.82
16	110	146	4.57	99	173	4.13	105	191	4.36	101	189	4.23	115	241	4.78	106	266	4.44
17	105	166	4.39	107	214	4.45	99	181	4.14	110	249	4.57	102	231	4.26	110	297	4.58
18	115	169	4.79	98	183	4.08	108	196	4.52	102	187	4.24	99	259	4.13	103	241	4.29
19	108	175	4.50	102	192	4.24	103	189	4.31	114	212	4.75	105	335	4.37	107	283	4.44
20	112	201	4.66	100	186	4.17	102	185	4.27	112	259	4.68	113	204	4.69	104	308	4.32
21	111	232	4.62	96	163	3.98	111	188	4.63	109	226	4.56	107	229	4.46	114	322	4.76
22	104	184	4.34	104	180	4.35	102	204	4.27	105	240	4.39	115	218	4.81	106	260	4.43
23	102	150	4.27	103	196	4.28	98	208	4.07	102	202	4.25	113	238	4.70	119	339	4.94
24	104	193	4.35	109	244	4.55	95	164	3.94	93	188	3.89	110	206	4.59	110	274	4.56
25	106	175	4.40	94	157	3.93	99	157	4.10	107	203	4.46	108	297	4.50	103	259	4.31
26	111	173	4.63	91	146	3.79	106	238	4.41	117	224	4.86	128	292	5.32	95	231	3.97
27	100	147	4.17	102	162	4.26	108	203	4.51	108	174	4.51	116	370	4.84	113	287	4.70
28	106	165	4.41	105	222	4.38	108	324	4.49	104	179	4.33	125	225	5.22	107	283	4.48
29	114	232	4.76	101	153	4.19	113	203	4.71	121	246	5.02	131	258	5.47	90	216	3.75
30	106	161	4.43	107	173	4.45	108	219	4.52	104	177	4.32	128	262	5.32	87	179	3.61
31	102	186	4.26	104	206	4.34	-	-	-	104	291	4.33	-	-	-	116	260	4.85
Mean	109	183	4.53	104	184	4.33	105	203	4.37	107	215	4.48	111	246	4.62	107	249	4.46

Table 14a. Average Maximum (Max.), Minimum (Min.), and Average (Avg.) Relative Humidity ((Max. + Min.) / 2)) for Each Day Between January 1 and June 30 at NMSU's Agricultural Science Center at Farmington, 1980–2011

Day	January			February*			March			April			May			June		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
1	86	42	64	88	42	65	80	31	56	68	19	44	72	19	46	51	12	32
2	85	42	64	86	38	62	78	27	53	70	21	45	74	23	48	53	14	34
3	87	48	68	85	34	59	78	24	51	74	20	47	68	20	44	55	14	34
4	86	47	66	87	35	61	76	23	49	75	20	47	69	18	43	59	12	36
5	90	49	70	83	34	59	71	23	47	68	21	45	63	15	39	57	14	35
6	88	46	67	83	33	58	71	24	48	70	22	46	59	15	37	56	13	34
7	86	46	66	82	31	57	76	26	51	66	23	45	61	16	39	51	14	32
8	87	44	65	86	39	62	79	26	52	66	20	43	57	16	36	54	14	34
9	86	42	64	87	37	62	76	20	48	64	20	42	60	17	38	62	13	38
10	85	44	64	84	37	61	75	23	49	65	20	43	62	14	38	62	14	38
11	87	39	63	80	37	59	76	23	49	64	21	42	55	15	35	56	12	34
12	86	42	64	80	34	57	75	25	50	63	19	41	58	17	38	51	13	32
13	86	42	64	84	32	58	73	23	48	68	19	44	63	16	39	58	13	36
14	85	41	63	85	32	58	74	20	47	59	16	37	60	15	37	55	14	34
15	84	38	61	84	33	58	75	19	47	57	16	36	63	16	39	55	13	34
16	88	44	66	83	32	58	75	19	47	59	15	37	70	16	43	49	12	31
17	85	43	64	77	28	53	73	22	48	62	16	39	64	18	41	53	12	32
18	86	41	63	82	31	57	74	22	48	66	17	41	65	15	40	52	12	32
19	89	37	63	85	28	56	70	22	46	62	17	39	63	18	40	50	12	31
20	88	41	64	82	33	57	69	19	44	58	18	38	65	16	41	54	13	33
21	85	41	63	81	29	55	71	21	46	69	20	44	65	17	41	52	13	33
22	84	42	63	81	28	54	69	22	45	69	22	46	59	17	38	51	12	31
23	85	42	63	80	25	52	63	19	41	73	19	46	63	18	41	51	11	31
24	81	38	59	77	27	52	67	21	44	70	25	47	61	17	39	53	14	33
25	84	39	62	77	31	54	66	19	43	70	20	45	62	14	38	52	15	33
26	87	41	64	75	27	51	74	24	49	73	17	45	59	16	37	60	16	38
27	86	40	63	77	26	51	75	21	48	65	18	41	56	14	35	57	16	37
28	82	40	61	81	35	58	69	22	46	67	17	42	60	14	37	57	13	35
29	82	38	60	91	26	58	77	21	49	70	17	44	60	15	38	59	14	37
30	84	41	62	-	-	-	74	20	47	73	19	46	57	14	36	60	14	37
31	87	41	64	-	-	-	70	19	44	-	-	-	62	13	37	-	-	-
Mean	86	42	64	82	32	57	73	22	48	67	19	43	62	16	39	55	13	34

*Humidity data shown for February 29 reflect summaries of 7 (leap) years only.

Table 14b. Average Maximum (Max.), Minimum (Min.), and Average (Avg.) Relative Humidity ((Max. + Min.) / 2)) for Each Day Between July 1 and December 31 at NMSU's Agricultural Science Center at Farmington, 1980–2011

Day	July			August			September			October			November			December		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
1	58	14	36	76	21	48	75	24	50	68	23	46	75	28	51	80	33	56
2	60	13	36	77	25	51	73	22	47	70	27	49	73	26	50	83	35	59
3	60	15	37	76	24	50	74	24	49	74	27	51	75	27	51	82	33	58
4	56	13	34	75	23	49	72	25	49	75	25	50	73	29	51	81	32	57
5	55	15	35	77	23	50	76	24	50	71	26	49	72	27	49	85	40	62
6	56	15	36	76	22	49	76	26	51	76	25	51	73	25	49	84	37	60
7	63	20	41	77	22	49	76	24	50	78	26	52	71	26	48	86	37	62
8	67	19	43	74	21	47	76	25	50	79	26	53	76	30	53	88	41	64
9	68	21	45	69	21	45	76	25	50	72	25	48	75	31	53	84	42	63
10	68	19	44	73	22	48	79	27	53	71	24	48	77	33	55	86	39	62
11	68	17	43	73	21	47	81	27	54	70	21	45	82	37	60	84	40	62
12	66	17	42	76	21	49	81	24	53	72	21	46	83	36	60	86	44	65
13	67	19	43	77	22	50	80	27	54	71	19	45	84	39	61	86	41	63
14	71	17	44	80	24	52	82	25	54	74	21	48	84	35	59	86	39	62
15	63	16	40	78	23	51	73	23	48	74	24	49	80	33	56	86	42	64
16	68	17	43	76	22	49	75	22	48	73	21	47	77	33	55	86	46	66
17	72	19	46	74	22	48	71	23	47	73	25	49	79	30	55	87	44	65
18	71	19	45	74	21	48	79	25	52	75	25	50	77	28	53	84	43	64
19	75	18	46	74	24	49	73	23	48	75	24	50	76	27	52	87	43	65
20	74	19	46	81	26	53	75	24	49	77	25	51	75	27	51	85	42	63
21	69	18	44	83	25	54	74	22	48	76	28	52	78	29	53	90	46	68
22	73	20	46	81	22	52	74	21	48	76	30	53	82	31	57	87	43	65
23	72	20	46	79	25	52	74	24	49	77	28	53	79	33	56	88	45	67
24	71	20	46	78	23	51	72	20	46	71	26	48	81	31	56	85	41	63
25	75	20	48	79	25	52	67	19	43	80	26	53	79	29	54	87	45	66
26	76	21	49	75	28	52	69	22	45	77	32	54	79	30	54	88	42	65
27	75	20	48	74	26	50	68	18	43	77	31	54	78	31	54	87	46	66
28	76	20	48	81	26	53	68	22	45	76	33	55	84	34	59	85	43	64
29	75	20	47	75	23	49	68	23	46	78	30	54	82	36	59	88	49	69
30	77	23	50	71	21	46	66	22	44	74	27	50	82	35	58	89	48	69
31	77	23	50	75	25	50	-	-	-	75	28	51	-	-	-	-	-	-
Mean	68	18	43	76	23	50	74	23	49	74	26	50	78	31	54	86	41	63

Table 15. Average Daily Global Solar Radiation in Langleys (gram calories per square centimeter) as Measured with Pyranometers at NMSU's Agricultural Science Center at Farmington, 1972–2011

Day of Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	205	261	343	428	542	641	653	576	482	417	294	233
2	188	253	362	460	564	664	642	557	532	394	296	207
3	190	280	367	477	557	648	652	557	497	381	276	226
4	207	262	349	485	582	632	649	552	508	364	280	228
5	175	293	378	500	574	647	653	551	493	392	293	195
6	191	300	374	504	596	644	633	576	490	380	288	203
7	207	290	367	505	606	655	608	558	494	382	268	203
8	222	266	389	534	602	616	593	568	484	395	250	212
9	213	281	405	512	583	622	602	582	462	384	241	220
10	211	294	380	497	597	657	623	552	455	385	268	208
11	212	295	384	524	639	648	629	570	458	380	230	212
12	224	299	384	523	623	648	627	560	463	370	247	197
13	242	312	414	540	590	667	597	543	449	378	235	204
14	231	278	385	550	597	666	641	516	448	368	244	208
15	220	302	408	548	570	662	648	515	474	367	258	206
16	222	301	420	549	571	666	609	534	452	353	262	196
17	216	294	401	553	599	663	627	537	460	323	258	201
18	233	302	442	564	579	670	630	535	439	351	260	202
19	220	300	419	545	582	650	613	530	456	353	251	193
20	234	287	422	567	581	654	616	505	454	349	253	211
21	239	306	442	527	580	656	599	523	440	320	225	176
22	230	329	436	526	623	689	593	531	431	326	229	189
23	235	336	440	513	595	670	589	525	447	336	233	197
24	236	324	454	488	589	650	589	494	448	321	236	206
25	222	334	457	534	612	632	578	501	457	300	221	197
26	237	327	431	566	621	628	570	528	453	318	212	191
27	254	336	442	596	660	656	588	512	438	295	236	192
28	241	328	401	544	652	618	556	510	437	311	220	210
29	254	378	439	539	646	610	587	522	417	310	218	189
30	235	-	463	617	637	623	571	526	445	323	231	190
31	241	-	454	-	657	-	576	485	-	292	-	181
Total	6,886	8,750	12,651	15,815	18,604	19,450	18,943	16,631	13,862	10,919	7,515	6,282
Mean	222	302	408	527	600	648	611	536	462	352	251	203

Table 16. Average Daily Pan Evaporation in Inches (PAN) from April 1 through October 31 for Number of Years Indicated (N) at NMSU's Agricultural Science Center at Farmington, 1972–2011

Day of Month	April		May		June		July		August		September		October	
	PAN	N	PAN	N	PAN	N	PAN	N	PAN	N	PAN	N	PAN	N
1	0.219	21	0.304	36	0.388	39	0.489	40	0.402	38	0.326	39	0.249	39
2	0.267	23	0.284	36	0.435	39	0.451	40	0.383	39	0.342	40	0.251	38
3	0.261	28	0.319	36	0.398	39	0.452	40	0.380	40	0.330	40	0.232	38
4	0.229	31	0.335	37	0.416	39	0.461	40	0.415	40	0.306	40	0.212	38
5	0.261	31	0.332	37	0.432	39	0.465	40	0.385	40	0.321	40	0.203	39
6	0.264	31	0.347	37	0.412	38	0.466	40	0.381	39	0.319	40	0.220	39
7	0.254	31	0.355	37	0.413	39	0.430	40	0.345	39	0.303	40	0.220	39
8	0.291	31	0.335	38	0.413	39	0.430	40	0.395	40	0.312	40	0.196	38
9	0.275	31	0.333	38	0.382	39	0.396	40	0.388	40	0.294	40	0.222	34
10	0.235	31	0.361	38	0.407	39	0.453	39	0.378	40	0.278	40	0.218	35
11	0.278	31	0.388	37	0.436	39	0.428	39	0.385	40	0.274	39	0.228	35
12	0.261	31	0.366	37	0.445	39	0.430	39	0.384	40	0.295	40	0.205	35
13	0.253	31	0.360	38	0.441	39	0.414	40	0.372	40	0.268	40	0.225	34
14	0.297	30	0.367	38	0.467	39	0.448	40	0.362	40	0.291	40	0.183	35
15	0.301	31	0.330	38	0.452	39	0.437	40	0.368	40	0.262	40	0.204	34
16	0.290	32	0.368	39	0.436	39	0.420	39	0.371	40	0.284	40	0.202	33
17	0.282	32	0.348	39	0.458	40	0.394	40	0.358	40	0.281	39	0.200	33
18	0.312	32	0.361	39	0.443	40	0.422	40	0.353	40	0.256	40	0.168	33
19	0.324	32	0.333	39	0.470	40	0.388	40	0.345	40	0.276	40	0.188	34
20	0.312	32	0.354	39	0.443	39	0.446	40	0.334	40	0.265	40	0.180	32
21	0.290	32	0.368	39	0.455	39	0.401	40	0.332	40	0.276	39	0.151	30
22	0.276	32	0.345	39	0.491	39	0.404	40	0.335	40	0.253	40	0.151	31
23	0.301	33	0.349	39	0.454	39	0.390	40	0.342	40	0.238	40	0.167	30
24	0.265	33	0.385	39	0.459	40	0.402	39	0.345	40	0.258	39	0.158	31
25	0.289	33	0.352	39	0.432	40	0.377	40	0.342	40	0.266	37	0.134	28
26	0.300	33	0.358	39	0.457	40	0.372	40	0.318	40	0.273	38	0.141	30
27	0.285	34	0.400	38	0.445	40	0.397	40	0.343	40	0.264	40	0.143	31
28	0.318	35	0.404	39	0.456	40	0.389	40	0.324	40	0.262	40	0.121	30
29	0.320	35	0.367	39	0.444	40	0.392	40	0.327	40	0.268	40	0.142	30
30	0.333	33	0.389	39	0.471	39	0.400	40	0.351	39	0.288	40	0.131	29
31	-	-	0.423	39	-	-	0.384	38	0.324	40	-	-	0.115	7
Total	8.4		11.0		13.2		13.0		11.2		8.5		5.8	
Mean	0.281		0.356		0.438		0.420		0.360		0.284		0.186	

Table 17a. Average Maximum (Max.), Minimum (Min.), and Average (Avg.) Soil Temperature ((Max. + Min.) / 2) at 4-Inch Depth for Each Day between January 1 and June 30 at NMSU's Agricultural Science Center at Farmington, 2001–2011

Day	January			February*			March			April			May			June		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
1	32	28	30	34	30	32	46	35	40	61	43	52	71	52	62	85	66	75
2	32	28	30	34	30	32	46	35	40	61	44	53	70	53	61	86	67	76
3	32	28	30	34	29	32	47	35	41	61	44	53	70	52	61	86	69	77
4	32	28	30	34	30	32	47	35	41	62	46	54	70	52	61	84	68	76
5	32	29	30	34	29	32	47	36	42	62	46	54	73	53	63	84	68	76
6	31	28	30	35	30	33	48	36	42	61	46	54	74	54	64	85	68	77
7	32	28	30	36	30	33	50	37	43	60	43	52	75	55	65	87	68	78
8	31	28	30	36	30	33	51	38	44	63	45	54	75	56	65	87	69	78
9	32	29	30	36	31	33	49	37	43	65	46	56	76	57	66	86	69	77
10	32	29	31	36	30	33	51	39	45	65	47	56	75	57	66	85	69	77
11	32	29	31	35	30	32	50	38	44	60	46	53	76	58	67	86	68	77
12	32	29	31	34	31	33	51	37	44	63	45	54	77	57	67	85	68	76
13	32	29	31	36	31	33	53	39	46	65	46	55	77	58	67	82	67	75
14	32	29	31	37	31	34	55	40	47	68	48	58	76	60	68	84	67	75
15	32	29	31	38	32	35	54	39	47	68	50	59	78	61	70	86	68	77
16	32	28	30	38	32	35	54	39	47	68	50	59	78	62	70	87	70	78
17	32	28	30	40	33	37	56	40	48	69	51	60	79	62	70	88	72	80
18	32	28	30	42	33	38	56	41	48	69	51	60	81	62	72	88	71	80
19	33	29	31	43	35	39	57	41	49	70	50	60	81	62	72	90	71	81
20	33	29	31	44	35	39	55	41	48	70	51	60	81	63	72	90	71	81
21	33	29	31	43	34	39	57	41	49	68	52	60	81	63	72	89	72	80
22	33	30	31	44	34	39	57	43	50	68	51	59	82	60	71	89	73	81
23	32	29	31	44	35	40	60	43	52	68	51	59	78	61	70	90	73	82
24	33	30	32	44	35	40	59	43	51	69	51	60	77	60	69	91	74	83
25	33	30	31	43	35	39	59	43	51	68	51	59	80	61	70	91	74	83
26	34	30	32	45	35	40	60	43	51	69	50	60	83	63	73	90	74	82
27	33	30	31	45	35	40	59	42	50	70	51	61	83	65	74	89	73	81
28	34	29	32	45	34	40	59	41	50	72	52	62	84	65	75	91	73	82
29	34	31	32	45	35	40	58	42	50	71	53	62	84	66	75	91	74	82
30	34	31	32	-	-	-	58	42	50	71	54	62	82	65	74	91	75	83
31	33	30	32	-	-	-	58	42	50	-	-	-	83	65	74	-	-	-
Mean	32	29	31	39	32	36	54	39	47	66	48	57	78	59	69	87	70	79

*Soil temperature data shown for February 29 reflect summaries of 2 (leap) years only.

Table 17b. Average Maximum (Max.), Minimum (Min.), and Average (Avg.) Soil Temperature ((Max. + Min.) / 2)) at 4-Inch Depth for Each Day between July 1 and December 31 at NMSU's Agricultural Science Center at Farmington, 2001–2011

Day	July			August			September			October			November			December		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
1	93	75	84	95	76	86	90	73	81	76	60	68	56	44	50	38	32	35
2	93	75	84	95	76	86	90	73	81	74	60	67	56	44	50	39	33	36
3	93	75	84	94	75	85	89	73	81	75	59	67	55	43	49	39	33	36
4	94	76	85	94	75	85	87	72	80	73	59	66	55	43	49	39	31	35
5	95	76	85	93	76	84	86	71	78	72	57	64	55	42	49	37	30	33
6	94	77	86	93	75	84	87	71	79	69	57	63	53	42	47	35	30	33
7	94	77	86	93	75	84	86	69	78	69	54	61	54	42	48	36	30	33
8	93	77	85	91	74	82	84	68	76	68	54	61	53	42	47	36	31	33
9	94	76	85	93	74	83	83	67	75	67	52	60	53	43	48	36	30	33
10	94	75	85	94	74	84	81	67	74	68	52	60	53	42	48	34	30	32
11	94	75	84	95	76	86	81	66	73	66	52	59	52	42	47	34	30	32
12	96	75	85	94	76	85	82	65	74	67	51	59	50	41	46	34	30	32
13	96	76	86	94	76	85	82	66	74	66	51	59	50	41	45	34	30	32
14	97	76	87	93	76	84	83	66	74	65	49	57	48	40	44	34	30	32
15	97	77	87	93	74	84	81	66	73	65	50	58	48	38	43	35	29	32
16	97	78	87	91	74	83	81	65	73	65	50	58	46	37	42	33	29	31
17	99	79	89	92	73	82	80	65	72	66	51	58	46	37	42	33	29	31
18	98	78	88	92	73	83	78	63	71	63	52	58	47	36	42	33	29	31
19	98	79	89	92	74	83	79	61	70	63	50	56	47	37	42	33	29	31
20	98	79	89	92	74	83	79	61	70	63	49	56	47	37	42	33	30	31
21	96	80	88	91	74	82	78	63	71	63	50	56	47	37	42	33	30	31
22	96	80	88	91	73	82	78	61	70	62	49	55	46	36	41	33	30	32
23	96	80	88	90	74	82	76	61	68	60	47	53	45	35	40	33	29	31
24	96	79	88	90	73	82	77	59	68	59	46	52	43	34	38	33	29	31
25	97	78	88	90	73	82	79	60	69	60	47	53	40	33	37	33	28	30
26	95	77	86	91	74	83	79	60	70	58	46	52	40	33	37	32	27	30
27	95	78	86	91	74	82	79	62	71	57	45	51	40	33	36	32	27	30
28	96	77	86	89	72	81	79	62	71	57	45	51	38	32	35	32	27	30
29	93	76	85	90	72	81	78	63	70	56	44	50	39	32	35	33	27	30
30	96	75	85	89	73	81	75	61	68	56	44	50	38	33	36	33	28	30
31	96	77	86	90	73	81	-	-	-	56	44	50	-	-	-	33	28	30
Mean	96	77	86	92	74	83	82	65	73	65	51	58	48	38	43	34	30	32

Table 18. Freeze Dates and Number of Consecutive Freeze-Free Days at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Less Than or Equal to 32°F			Less Than or Equal to 28°F		
	Last Spring Freeze (date)	First Fall Freeze (date)	Freeze-Free Period (days)	Last Spring Killing Freeze (date)	First Fall Killing Freeze (date)	Killing-Freeze-Free Period (days)
1969	Apr. 27	Oct. 5	161	Apr. 26	Oct. 6	163
1970	May 2	Oct. 8	159	May 1	Oct. 9	161
1971	May 9	Sept. 18^a	132	Apr. 27	Sept. 18^a	144^a
1972	May 2	Oct. 30	181	Apr. 27	Oct. 31	187
1973	May 2	Oct. 11	162	May 2	Oct. 27	178
1974	May 21	Oct. 30	162	May 20	Nov. 4	168
1975	May 8	Oct. 14	159	May 7	Oct. 14	160
1976	Apr. 27	Oct. 7	163	Apr. 27	Oct. 19	175
1977	Apr. 21	Oct. 31	193^b	Apr. 5	Nov. 2	211
1978	May 6	Oct. 26	173	May 6	Nov. 13	191
1979	May 12	Oct. 21	162	Apr. 20	Oct. 22	185
1980	May 26	Oct. 16	143	May 25^b	Oct. 17	145
1981	May 9	Oct. 16	160	Apr. 5	Oct. 17	195
1982	May 6	Oct. 6	153	Apr. 21	Oct. 10	172
1983	May 19	Sept. 21	125	May 17	Nov. 9	176
1984	May 8	Oct. 15	160	May 8	Oct. 16	161
1985	May 14	Sept. 30	139	Apr. 1	Nov. 1	214
1986	Apr. 27	Oct. 12	168	Apr. 27	Oct. 13	169
1987	Apr. 21	Oct. 19	181	Apr. 21	Nov. 11	204
1988	May 7	Nov. 12^b	189	Apr. 11	Nov. 16^b	219
1989	Apr. 30	Oct. 18	171	Mar. 21	Oct. 27	220^b
1990	Apr. 10^a	Oct. 9	182	Mar. 31	Oct. 21	204
1991	May 5	Oct. 28	176	Mar. 29	Oct. 29	214
1992	Apr. 21	Oct. 8	170	Mar. 19^a	Oct. 8	203
1993	May 9	Oct. 19	163	Apr. 20	Oct. 27	190
1994	Apr. 30	Oct. 17	170	Apr. 8	Oct. 31	206
1995	Apr. 25	Oct. 6	164	Apr. 18	Oct. 6	171
1996	Apr. 30	Sept. 19	142	Apr. 29	Oct. 18	172
1997	May 2	Oct. 13	164	May 2	Oct. 13	164
1998	May 15	Oct. 6	144	Apr. 19	Oct. 6	170
1999	June 5^b	Sept. 28	115^a	Apr. 16	Sept. 29	166
2000	May 12	Oct. 14	155	Apr. 3	Nov. 2	213
2001	Apr. 23	Oct. 11	171	Apr. 13	Oct. 11	181
2002	Apr. 22	Oct. 4	165	Apr. 22	Nov. 4	196
2003	May 11	Oct. 27	169	Apr. 8	Oct. 27	202
2004	May 1	Oct. 23	175	Mar. 29	Oct. 30	215
2005	Apr. 22	Oct. 31	192	Apr. 21	Nov. 15	208
2006	Apr. 20	Sept. 23	156	Apr. 19	Oct. 22	186
2007	May 7	Oct. 19	165	Apr. 19	Oct. 22	187
2008	May 14	Oct. 12	151	May 13	Oct. 12	152
2009	Apr. 27	Sept. 22	148	Apr. 16	Oct. 2	169
2010	May 12	Oct. 26	167	May 12	Oct. 26	167
2011	May 3	Oct. 8	158	May 2	Oct. 25	176
Mean	May 4	Oct. 13	162	Apr. 21	Oct. 22	184

^aEarliest date (or shortest freeze-free period).

^bLatest date (or longest freeze-free period)

Table 19. Average Daily Mean Temperature (°F) Recorded in Each Month at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1969	33.5	35.0	37.4^a	52.3	63.0	67.3	75.7	75.9	69.1	50.4	39.3	33.4	52.7
1970	31.3	40.5	39.2	44.5^a	60.5	68.5	76.5	76.3^b	63.6	49.4	42.2	33.1	52.1
1971	29.6	33.9	42.7	49.6	57.5	70.6	76.8	73.4	63.5	51.7	39.6	29.6	51.5
1972	30.3	38.1	48.3	52.5	60.2	70.6	77.6	73.2	66.5	54.0	36.5	26.1	52.8
1973	22.2^a	33.9	39.2	45.6	58.6	67.8	74.9	74.9	63.6	55.2	43.7	30.2	50.8
1974	23.8	28.7^a	47.3	48.6	63.2	73.9	75.1	73.4	65.2	55.6	40.4	28.0	51.9
1975	25.6	33.4	40.1	45.7	55.4^a	66.6	74.5	72.4	64.3	54.6	38.5	30.5	50.1^a
1976	28.7	40.8	40.9	52.3	60.2	69.8	77.3	73.4	66.4	51.3	39.5	30.7	52.6
1977	24.6	36.5	39.3	53.7	59.0	74.4	76.2	75.1	68.2	56.4	42.8	36.2	53.5
1978	33.3	34.4	45.6	51.5	56.0	69.3	75.5	71.4	64.9	56.2	41.9	23.8	52.0
1979	23.5	31.9	39.8	49.7	57.5	67.2	74.0	71.6	68.5	55.4	35.4	31.5	50.5
1980	33.4	38.7	39.9	48.6	56.9	70.9	76.0	72.4	64.6	50.3	40.8	37.2	52.5
1981	34.3	37.6	41.1	55.0	58.3	71.1	74.0	71.5	64.9	51.0	43.7	33.6	53.0
1982	29.5	31.3	42.2	49.0	57.2	67.4	73.5	72.0	64.9	49.6	39.5	31.5	50.6
1983	30.7	36.6	42.1	44.7	56.7	66.4^a	74.0	75.3	67.2	54.5	40.2	33.6	51.8
1984	28.6	34.3	41.1	47.2	63.8	68.5	76.1	73.5	65.8	47.0^a	41.8	34.9	51.9
1985	30.0	32.1	43.3	52.9	60.4	70.7	75.5	74.2	61.4	53.8	39.8	31.2	52.1
1986	36.1	38.8	46.8	51.5	59.5	69.6	72.5	73.9	61.9	52.1	39.7	32.7	52.9
1987	29.0	35.7	39.2	53.6	59.4	70.1	73.2	71.4	64.5	55.4	39.1	29.2	51.6
1988	24.0	36.0	40.6	51.1	59.1	71.9	76.0	73.4	64.0	57.9	40.8	30.8	52.1
1989	27.1	34.9	48.8	56.4	63.2	70.2	78.0	72.3	68.7	54.0	40.8	30.8	53.8
1990	29.1	36.1	46.5	53.9	59.5	74.9^b	75.9	73.2	68.8	53.8	42.2	23.0^a	53.1
1991	25.6	36.9	41.6	49.3	59.5	68.4	74.6	73.6	65.3	54.8	37.9	29.4	51.4
1992	28.2	38.8	44.7	56.0	62.0	68.3	71.8^a	72.2	65.6	55.8	34.6^a	25.7	52.0
1993	35.0	37.9	44.2	51.2	60.8	68.6	73.8	70.8	64.0	51.5	37.7	31.4	52.2
1994	32.3	35.2	46.4	51.9	61.6	73.2	76.7	76.0	65.6	52.2	38.0	34.7	53.6
1995	33.3	43.4^b	44.5	48.2	57.1	66.7	74.5	75.7	66.2	53.3	43.8	34.5	53.4
1996	32.0	40.5	43.8	51.3	64.2	70.8	75.9	72.9	61.2	51.6	40.0	32.4	53.0
1997	28.9	35.7	46.2	46.7	61.5	69.8	74.0	73.0	68.1	51.9	40.6	30.8	52.3
1998	33.4	35.2	42.5	48.0	61.3	67.2	76.1	74.4	69.8^b	53.4	42.2	32.0	53.0
1999	35.4	39.1	47.8	48.7	58.3	68.1	73.9	70.5^a	62.8	54.2	45.4^b	29.3	52.8
2000	34.1	40.7	42.1	54.7	63.3	71.4	75.2	74.6	68.0	53.6	35.5	33.9	53.9
2001	31.1	37.1	45.3	53.9	63.4	71.7	76.9	73.8	69.5	56.9	44.7	30.7	54.6
2002	31.4	33.7	41.7	56.7^b	62.7	74.7	77.6	73.7	64.9	52.0	39.7	32.1	53.4
2003	38.2^b	35.7	43.9	51.0	62.9	70.5	80.4^b	76.3	65.7	58.2^b	40.3	33.5	54.7^b
2004	29.9	33.3	50.8^b	51.8	63.4	71.7	75.3	72.7	64.3	53.3	40.1	32.5	53.3
2005	38.1	39.8	42.7	52.5	62.7	69.1	79.2	73.0	68.2	55.7	43.0	31.7	54.6
2006	33.5	36.7	43.4	55.0	65.2^b	74.5	77.5	72.6	60.9^a	51.7	43.3	31.2	53.8
2007	27.2	36.9	46.4	52.5	61.1	72.1	77.4	76.2	66.9	54.4	43.2	32.0	53.9
2008	23.9	33.8	42.1	46.5	56.4	69.8	75.3	73.9	65.8	54.0	43.3	30.9	51.3
2009	32.2	38.0	45.0	49.3	63.5	67.8	77.0	73.1	66.4	49.4	42.7	25.9	52.5
2010	26.3	33.5	41.7	50.7	57.7	71.5	75.8	71.9	67.4	55.5	38.5	37.3^b	52.3
2011	24.5	31.8	45.3	49.8	56.8	71.1	76.4	75.7	65.2	52.2	39.9	29.7	51.5
Mean	30.1	36.1	43.3	50.8	60.2	70.1	75.7	73.5	65.6	53.4	40.5	31.2	52.6

^aLowest average daily mean temperature for month or year during 43-year period.

^bHighest average daily mean temperature for month or year during 43-year period.

Table 20. Average Daily Maximum Temperature (°F) in Each Month at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1969	41.9	46.0	50.3	69.3	78.3	83.3	90.8	89.9	83.2	62.3	50.9	44.7	65.9
1970	43.0	54.3	52.3	59.8	77.7	84.3	91.3	90.9	78.1	62.8	54.8	44.2	66.1
1971	42.6	48.3	59.4	66.4	73.5	87.2	92.8	86.8	79.5	65.1	51.2	38.7	66.0
1972	43.1	53.7	65.8	69.5	77.5	86.4	93.3	86.5	79.8	63.1	45.7^a	36.8	66.8
1973	32.4	42.3	49.5^a	59.1	73.5	84.0	90.3	90.2	78.8	70.3	56.7	41.4	64.0
1974	34.0	40.1^a	61.6	64.5	80.2	90.6	89.3	88.1	80.4	67.2	52.2	38.6	65.6
1975	36.7	44.0	52.5	60.1	71.4	84.7	88.9	87.9	78.5	70.2	53.1	42.2	64.2
1976	41.3	53.9	56.4	68.0	75.7	86.6	92.3	88.0	79.0	65.3	53.1	44.7	67.0
1977	33.7	50.6	53.4	68.7	73.7	90.2	90.2	88.8	81.4	70.5	54.2	46.7	66.8
1978	41.2	44.4	57.9	64.7	69.5^a	85.2	90.3	85.7	78.1	69.6	51.2	32.5^a	64.2
1979	31.2^a	42.2	51.9	65.1	71.5	84.3	90.2	86.4	84.4	71.0	46.3	43.1	64.0
1980	40.7	49.8	52.8	64.6	72.5	89.8	92.9	87.0	79.4	65.2	54.5	50.5^b	66.6
1981	48.6	52.1	53.0	70.8	73.1	88.4	90.0	87.2	80.1	64.5	57.2	45.7	67.6
1982	40.5	41.3	54.4	63.5	71.6	84.1	88.9	84.5	77.7	64.1	50.2	40.7	63.5^a
1983	40.1	46.9	53.1	58.7^a	72.5	82.0	89.5	89.5	82.0	67.9	51.8	42.9	64.7
1984	40.9	48.3	55.3	61.0	80.5	83.6	91.1	87.3	79.9	57.7^a	54.2	45.3	65.4
1985	40.0	45.3	54.8	68.1	75.4	87.9	90.5	89.5	75.2	66.4	50.8	42.9	65.6
1986	49.2	51.4	60.7	64.5	75.3	84.6	86.3^a	88.4	74.2^a	64.5	50.0	43.5	66.0
1987	40.1	46.9	52.3	68.7	74.0	87.3	89.8	85.8	79.7	70.6	50.4	39.7	65.4
1988	35.5	47.7	55.9	66.1	74.1	88.1	91.4	86.7	79.6	73.1^b	52.4	42.4	66.1
1989	38.5	45.7	63.3	72.9^b	79.5	86.4	92.7	86.5	83.4	67.5	55.6	45.3	68.1
1990	40.3	47.0	58.4	66.9	74.0	90.9	89.3	86.5	81.5	67.7	53.5	34.6	65.9
1991	35.1	48.7	53.3	64.9	75.5	84.1	89.8	88.0	79.4	69.9	48.4	37.4	64.5
1992	38.5	50.5	57.2	71.6	75.6	84.2	86.6	86.5	81.0	71.4	47.1	35.9	65.5
1993	43.9	47.9	59.0	66.9	76.6	85.7	90.8	84.1	79.5	65.2	50.2	42.8	66.1
1994	45.6	46.6	61.4	66.1	77.3	90.6	93.0	90.7	80.8	65.5	49.1	45.6	67.7
1995	42.6	57.5^b	57.9	61.7	71.4	83.6	90.9	90.4	80.2	69.5	58.4	46.3	67.5
1996	45.1	53.6	59.0	68.1	81.7	87.6	91.6	88.3	75.9	65.4	52.3	43.8	67.7
1997	38.9	47.7	64.0	61.4	77.4	86.0	89.5	86.8	82.1	67.0	53.6	41.6	66.3
1998	44.5	45.9	56.9	63.0	78.2	85.7	90.3	90.0	85.7^b	67.2	55.7	45.2	67.3
1999	49.9	54.4	64.3	63.2	73.3	86.1	88.6	84.1^a	79.2	72.2	62.5^b	43.5	68.4
2000	46.2	53.7	55.5	70.8	82.3^b	89.0	92.5	91.0	83.6	65.2	45.8	44.6	68.3
2001	40.9	48.6	58.2	68.3	79.5	89.1	91.3	88.4	85.4	71.8	57.5	42.9	68.5
2002	44.3	49.9	57.6	72.5	79.5	92.7^b	93.9	89.8	79.2	64.8	52.8	42.5	68.3
2003	51.5^b	47.6	57.4	66.6	79.4	87.7	97.2^b	91.2^b	81.5	72.9	51.6	45.5	69.2^b
2004	41.0	44.9	66.5^b	65.0	80.3	88.8	91.4	87.8	77.8	66.2	50.7	44.3	67.1
2005	47.9	49.0	55.7	67.8	78.7	86.5	96.5	87.3	82.3	68.2	56.5	44.6	68.4
2006	46.2	52.2	56.0	71.0	82.1	91.7	91.3	85.5	74.4	63.6	55.9	42.4	67.7
2007	38.0	48.3	61.3	66.8	74.3	88.6	92.4	90.2	81.0	69.3	58.3	38.4	67.2
2008	34.4	43.9	57.4	65.5	73.0	85.5	89.9	87.3	80.3	68.2	55.2	39.7	65.0
2009	42.3	50.8	58.7	64.4	77.7	81.4^a	91.6	88.1	79.9	62.5	55.1	35.8	65.7
2010	35.6	42.6	54.9	64.7	73.7	87.7	89.9	84.7	81.9	68.3	51.1	46.5	65.1
2011	35.5	44.4	59.8	63.5	71.5	87.4	91.4	89.7	78.3	65.1	50.9	39.6	64.8
Mean	41.0	48.2	57.1	65.9	75.9	86.7	91.0	87.9	80.1	67.1	52.8	42.2	66.3

^aLowest average daily maximum temperature for month or year during 43-year period.

^bHighest average daily maximum temperature for month or year during 43-year period.

Table 21. Highest Temperature (°F) Recorded in Each Month at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Max.
1969	57	61	74	82	89	96	96	97	95	78	63	56	97
1970	56	65	65	72	86	98	98	99	90	76	64	61	99
1971	60	64	77	77	84	97	101	91	90	76	70	57	101
1972	61	66	76	78	86	94	100	98	89	82	57	52	100
1973	47	61	63	76	85	98	99	97	88	81	73	65	99
1974	45	60	72	75	93	99	95	94	93	83	64	56	99
1975	61	58	65	77	85	96	95	95	89	84	73	57	96
1976	54	68	71	77	86	98	100	93	94	78	70	55	100
1977	46	65	69	81	91	98	97	98	93	82	74	63	98
1978	53	59	79	78	88	95	95	94	90	83	67	47	95
1979	46	60	62	78	82	96	97	96	94	83	60	54	97
1980	59	64	67	81	86	99	97	97	88	84	73	63	99
1981	60	67	71	84	84	100	98	96	87	74	68	56	100
1982	60	64	67	76	82	93	97	95	91	79	64	53	97
1983	53	63	68	83	89	92	96	99	93	74	70	50	99
1984	51	60	69	79	93	94	95	93	89	75	68	54	95
1985	50	60	70	79	85	95	100	95	91	75	68	51	100
1986	64	70	75	79	85	94	96	96	88	75	60	55	96
1987	56	61	69	81	82	93	98	93	89	83	66	58	98
1988	49	62	77	78	87	99	96	93	93	83	70	56	99
1989	50	67	81	85	90	98	103	92	91	81	67	53	103
1990	56	64	74	80	86	103	98	94	93	79	68	55	103
1991	44	58	67	79	85	94	97	93	91	82	67	47	97
1992	54	65	67	86	85	92	95	95	89	83	61	49	95
1993	58	61	72	81	89	96	96	96	88	84	61	56	96
1994	58	63	74	81	92	100	97	97	89	80	70	55	100
1995	53	68	74	77	82	92	101	97	97	83	68	64	101
1996	56	65	71	82	90	93	96	96	90	83	66	57	96
1997	58	60	75	76	91	93	98	92	91	84	68	54	98
1998	56	62	77	80	87	100	100	97	90	80	67	60	100
1999	62	65	75	78	85	94	99	91	89	85	75	67	99
2000	66	66	70	85	97	94	97	97	93	83	57	55	97
2001	51	62	70	81	90	97	99	94	93	81	75	59	99
2002	59	63	74	81	98	97	100	98	90	77	63	55	100
2003	59	59	74	78	95	96	103	98	92	87	64	62	103
2004	51	62	82	78	89	96	99	97	91	78	67	60	99
2005	57	57	68	80	94	98	103	95	89	83	74	59	103
2006	57	67	71	85	92	99	100	92	87	83	69	54	100
2007	56	64	76	83	85	95	98	96	89	80	71	53	98
2008	51	61	70	81	87	93	95	97	87	81	74	53	97
2009	53	69	73	78	88	92	96	96	88	77	72	49	96
2010	44	50	75	78	90	98	98	94	89	86	71	59	98
2011	50	63	72	79	87	96	97	95	88	81	68	56	97
Max.	66	70	82	86	98	103	103	99	97	87	75	67	

Table 22. Average Daily Minimum Temperature (°F) Recorded in Each Month at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1969	25.1	24.0	24.5^a	35.2	47.8	51.3	60.7	61.9	54.9	38.5	27.6	22.1	39.5
1970	19.5	26.6	26.2	29.2	43.2	52.7	61.7	61.6	49.0	35.9	29.6	22.1	38.1
1971	16.5	19.5	26.0	32.8	41.4	54.0	60.7	60.0	47.5	38.3	28.0	20.5	37.1
1972	17.5	22.5	30.8	35.5	42.9	54.7	61.8	59.9	53.2	45.0^b	27.2	15.4	38.9
1973	12.0^a	25.5	29.0	32.0	43.6	51.5	59.5	59.6	48.5	40.0	30.7	18.9	37.6
1974	13.7	17.3^a	32.9	32.8	46.2	57.1	60.8	58.8	50.0	44.0	28.5	17.4	38.3
1975	14.5	22.9	27.7	31.3	39.5^a	48.6^a	60.1	56.8	50.0	39.0	23.9	18.9	36.1^a
1976	16.2	27.7	25.4	36.5	44.7	53.0	62.4	58.8	53.8	37.4	25.8	16.7	38.2
1977	15.5	22.3	25.2	38.7	44.4	58.5	62.2	61.4	54.9	42.2	31.4	25.6	40.2
1978	25.4	24.5	33.4	38.3	42.5	53.4	60.7	57.1	51.6	42.7	32.5^b	15.0	39.8
1979	15.8	21.6	27.6	34.3	43.5	50.2	57.9	56.7	52.7	39.9	24.5	19.9	37.0
1980	26.1	27.7	27.0	32.6	41.3	52.0	59.2	57.7	49.7	35.4	27.1	23.8	38.3
1981	20.0	23.0	29.2	39.2	43.5	53.7	57.9	55.9^a	49.6	37.5	30.3	21.5	38.5
1982	18.4	21.4	29.9	34.4	42.8	50.7	58.0	59.5	52.1	35.2^a	28.9	22.2	37.8
1983	21.4	26.3	31.0	30.6	40.8	50.7	58.4	61.1	52.4	41.2	28.6	24.3	38.9
1984	16.3	20.3	26.9	33.4	47.1	53.4	61.1	59.8	51.7	36.4	29.5	24.6	38.4
1985	19.9	18.9	31.9	37.6	45.5	53.5	60.5	58.9	47.6	41.2	28.9	19.4	38.7
1986	23.1	26.3	32.8	38.5	43.7	54.5	58.7	59.5	49.6	39.7	29.4	21.9	39.8
1987	18.0	24.6	26.1	38.5	44.8	52.9	56.5^a	56.9	49.3	40.2	27.7	18.7	37.9
1988	12.4	24.3	25.2	36.0	44.0	55.8	60.7	60.2	48.4	42.7	29.3	19.2	38.2
1989	15.6	24.1	34.3	39.9	46.9	53.9	63.2	58.0	53.9	40.5	26.1	16.3	39.4
1990	17.9	25.3	34.6	40.9^b	45.1	58.9^b	62.6	59.8	56.0^b	39.9	31.0	11.4^a	40.3
1991	16.2	25.0	30.0	33.7	43.5	52.7	59.4	59.2	51.2	39.7	27.3	21.4	38.3
1992	17.9	27.0	32.3	40.3	48.3	52.3	57.0	57.8	50.1	40.3	22.0^a	15.5	38.4
1993	26.0	27.9	29.5	35.5	44.9	51.5	56.7	57.6	48.4	37.8	25.2	20.0	38.4
1994	19.0	23.8	31.4	37.6	45.9	55.8	60.3	61.2	50.3	38.9	27.0	23.8	39.6
1995	24.0	29.3	31.1	34.7	42.8	49.8	58.1	61.0	52.1	37.0	29.2	22.7	39.3
1996	18.8	27.5	28.5	34.4	46.7	53.9	60.2	57.5	46.5	37.8	27.7	21.1	38.4
1997	19.0	23.7	28.4	31.9	45.6	53.6	58.5	59.3	54.2	36.8	27.7	20.1	38.2
1998	22.3	24.4	28.1	32.9	44.5	48.8	62.0	58.7	53.9	39.6	28.8	18.7	38.6
1999	20.9	23.8	31.3	34.2	43.3	50.1	59.2	57.0	46.3^a	36.2	28.3	15.0	37.1
2000	22.0	27.7	28.7	38.6	44.3	53.8	57.8	58.2	52.4	42.0	25.2	23.1	39.5
2001	21.3	25.6	32.4	39.6	47.4	54.2	62.6	59.2	53.6	42.0	31.9	18.6	40.7
2002	18.5	17.5	25.7	40.8	45.9	56.7	61.3	57.6	50.7	39.2	26.5	21.6	38.5
2003	24.9	23.9	30.5	35.4	46.5	53.4	63.6	61.5	49.9	43.5	29.0	21.6	40.3
2004	18.8	21.8	35.1^b	38.7	46.5	54.6	59.1	57.6	50.8	40.5	29.5	20.7	39.5
2005	28.4^b	30.5^b	29.7	37.3	46.6	51.7	62.0	58.8	54.0	43.2	29.4	18.7	40.9^b
2006	20.7	21.2	30.7	39.0	48.3	57.2	63.7^b	59.7	47.5	39.8	30.7	20.0	39.9
2007	16.5	25.5	31.5	38.2	47.8	55.7	62.3	62.2^b	52.9	39.5	28.2	25.5	40.5
2008	13.4	23.7	26.9	27.5^a	39.8	54.1	60.7	60.4	51.3	39.9	31.5	22.1	37.6
2009	22.2	25.1	31.4	34.1	49.3^b	54.3	62.3	58.1	52.8	36.3	30.2	15.9	39.3
2010	17.0	24.3	28.4	36.6	41.6	55.4	61.6	59.1	52.9	42.7	25.9	28.0^b	39.5
2011	13.5	19.2	30.8	36.1	42.1	54.7	61.4	61.7	52.2	39.4	28.9	19.8	38.3
Mean	19.1	24.1	29.5	35.7	44.6	53.5	60.3	59.2	51.2	39.6	28.3	20.2	38.8

^aLowest average daily minimum temperature for month or year during 43-year period.

^bHighest average daily minimum temperature for month or year during 43-year period.

Table 23. Lowest Temperature (°F) Recorded in Each Month and Year at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Min.
1969	9	12	13	27	37	44	43	52	46	26	14	7	7
1970	0	15	11	20	27	39	53	54	34	21	18	14	0
1971	-18	5	6	17	31	38	54	54	28	18	17	4	-18
1972	2	2	14	24	30	47	56	54	37	22	15	2	2
1973	1	10	20	18	28	41	52	49	37	26	14	9	1
1974	-11	1	20	18	28	38	53	52	33	30	14	1	-11
1975	-2	9	9	19	23	38	55	49	40	20	7	6	-2
1976	-4	12	11	23	34	38	54	52	42	22	1	9	-4
1977	-2	13	12	21	33	51	57	54	46	32	20	10	-2
1978	12	0	20	26	28	45	51	46	33	31	18	-9	-9
1979	-8	5	17	16	29	36	51	48	42	23	6	9	-8
1980	14	18	13	18	27	36	53	41	37	17	12	11	11
1981	10	11	21	19	32	36	44	49	42	21	13	4	4
1982	-1	-3	19	22	30	38	47	54	38	21	17	6	-3
1983	9	20	22	20	27	36	45	55	30	35	11	10	9
1984	2	11	14	18	27	40	53	54	39	23	15	13	2
1985	6	-1	13	28	29	39	53	51	31	29	8	8	-1
1986	8	8	19	23	33	42	53	52	40	28	16	8	8
1987	2	8	9	24	35	43	50	47	40	30	14	1	1
1988	-3	16	9	21	30	38	54	54	33	36	12	1	-3
1989	4	-14	14	29	36	41	55	48	36	15	9	3	-14
1990	0	4	19	30	39	35	55	52	45	26	16	-16	-16
1991	-3	12	17	24	30	39	53	54	39	20	11	3	-3
1992	10	17	20	30	40	41	47	46	37	28	7	-2	-2
1993	10	18	15	24	32	39	46	52	38	17	8	8	8
1994	7	4	12	26	35	46	50	57	39	26	8	11	4
1995	12	21	18	24	34	38	45	55	36	24	13	9	9
1996	6	12	16	20	39	41	54	52	29	16	19	3	3
1997	-1	13	13	19	26	46	51	53	43	19	17	8	-1
1998	12	15	13	25	31	40	59	52	46	27	16	3	3
1999	11	7	21	20	30	32	50	49	28	19	9	3	3
2000	1	14	17	28	29	44	52	52	33	32	10	11	1
2001	10	8	21	24	34	36	57	52	36	28	13	8	8
2002	3	6	3	27	35	48	56	50	39	30	19	8	3
2003	17	8	22	24	29	46	53	57	41	28	12	7	7
2004	8	6	21	32	32	44	52	51	35	26	8	4	4
2005	19	18	20	20	34	37	56	53	42	30	16	-2	-2
2006	10	11	17	27	35	48	56	49	31	24	4	5	4
2007	4	3	9	24	32	38	56	56	33	19	14	12	3
2008	-7	4	17	18	15	40	54	53	41	22	13	7	-7
2009	15	12	21	19	43	44	56	48	31	22	12	1	1
2010	5	12	18	21	26	44	49	53	44	24	6	3	3
2011	-5	-6	19	21	26	46	51	57	44	27	19	4	-6
Min.	-18	-14	3	16	15	32	43	41	28	15	1	-16	

Table 24. Total Monthly Measureable* Precipitation (inches) Recorded at NMSU's Agricultural Science Center at Farmington, 1969–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1969	0.85	0.31	0.21	0.30	1.13	1.00^a	0.69	0.47	2.07	2.88	0.38	0.29	10.58
1970	0.06	0.03	0.54	0.60	0.11	0.81	0.68	0.02	2.48	0.48	0.46	0.20	6.47
1971	0.18	0.09	0.05	0.11	0.41	0.00	0.31	1.72	1.13	1.08	0.77	0.16	6.01
1972	0.03	0.00	0.03	0.00	0.02	0.18	0.04	1.34	0.57	3.53^a	0.19	0.93	6.86
1973	0.28	0.17	1.82	1.54	0.65	0.95	0.27	0.61	1.49	0.35	0.30	0.37	8.80
1974	1.10	0.13	0.01	0.20	0.02	0.09	1.48	0.12	0.37	2.39	0.48	0.38	6.77
1975	0.11	0.61	1.52	0.78	0.35	0.13	0.84	0.24	0.80	0.14	0.22	0.20	5.94
1976	0.06	0.16	0.00	0.10	0.41	0.09	0.62	0.80	1.31	0.01	0.01	0.00	3.57^b
1977	0.42	0.00	0.00	0.03	0.29	0.04	1.03	1.41	0.38	0.30	0.62	0.63	5.15
1978	0.90	0.64	1.27	0.71	0.96	0.00	0.07	0.18	1.55	1.46	2.24	0.59	10.57
1979	0.88	0.19	0.46	0.28	0.58	0.43	1.40	0.49	0.08	1.37	0.97	0.73	7.86
1980	1.45	0.70	0.63	0.25	0.25	0.07	0.08	0.89	1.05	0.84	0.02	0.00	6.23
1981	0.00	0.30	1.76	0.21	1.05	0.60	0.90	0.28	0.69	0.89	0.36	0.10	7.14
1982	0.25	0.77	1.20	0.65	0.82	0.00	1.27	2.78	1.50	0.16	0.92	0.76	11.08
1983	0.94	0.77	1.76	0.39	0.05	0.35	1.67	0.72	0.69	0.36	0.91	0.67	9.28
1984	0.00	0.12	0.54	1.00	0.06	0.61	0.62	1.79	0.30	1.13	0.23	0.87	7.27
1985	0.39	0.13	1.74	1.76	0.29	0.01	1.38	0.43	1.31	1.21	0.52	0.22	9.39
1986	0.11	0.77	0.51	0.97	0.13	0.74	4.10^a	0.93	2.18	0.92	2.46^a	0.76	14.58^a
1987	0.10	1.75	0.66	0.04	0.64	0.02	0.28	1.17	0.27	1.20	1.52	0.59	8.24
1988	0.63	0.82	0.06	0.68	1.11	0.33	0.58	2.34	0.27	0.22	0.78	0.19	8.01
1989	1.19	0.56	0.06	0.00	0.00	0.00	2.40	0.46	0.14	0.51	0.00	0.00	5.32
1990	0.53	0.61	0.66	1.04	0.88	0.07	0.35	1.32	1.97	1.12	0.78	0.59	9.92
1991	0.59	0.42	0.51	0.01	0.51	0.45	0.37	0.56	1.38	0.38	2.24	0.84	8.26
1992	0.15	0.18	0.84	0.15	1.78^a	0.02	0.98	1.34	0.76	0.43	0.30	0.63	7.56
1993	2.18^a	1.13	0.49	0.28	0.38	0.04	0.03	2.06	0.84	1.25	0.47	0.15	9.30
1994	0.09	0.48	0.24	0.57	1.32	0.07	0.20	0.66	1.69	0.86	0.96	0.64	7.78
1995	0.57	0.36	1.23	1.29	0.89	0.14	0.12	1.88	2.04	0.16	0.08	0.39	9.15
1996	0.28	0.24	0.28	0.17	0.00	0.65	0.23	1.07	0.63	2.21	0.72	0.22	6.70
1997	1.03	0.51	0.00	2.88^a	0.82	0.62	1.28	1.86	1.94	0.43	0.67	0.80	12.84
1998	0.12	0.61	0.65	0.73	0.03	0.02	1.39	1.57	0.58	2.19	1.15	0.09	9.13
1999	0.11	0.05	0.13	1.33	1.14	0.44	2.51	3.01^a	0.23	0.01	0.06	0.18	9.20
2000	0.68	0.13	2.19^a	0.07	0.03	0.12	0.80	1.22	0.50	2.16	0.78	0.22	8.90
2001	0.44	0.80	1.37	0.67	0.87	0.03	0.87	0.98	0.24	0.24	0.48	0.55	7.54
2002	0.04	0.04	0.17	0.37	0.00	0.00	0.42	0.32	3.26^a	1.75	0.72	0.60	7.69
2003	0.08	1.34	0.44	0.02	0.16	0.00	0.11	1.24	0.87	0.72	1.03	0.31	6.32
2004	0.40	0.84	0.00	2.50	0.00	0.14	0.38	0.16	2.53	0.60	0.82	0.37	8.74
2005	1.12	1.78^a	0.36	0.85	0.55	0.11	0.52	1.84	0.48	0.92	0.06	0.10	8.69
2006	0.39	0.05	1.03	0.26	0.09	0.24	1.83	0.77	1.38	1.90	0.06	0.73	8.73
2007	0.62	0.43	1.65	0.39	1.69	0.10	0.68	0.81	0.74	0.11	0.59	0.61	8.42
2008	1.21	0.74	0.14	0.03	0.25	0.13	0.63	0.60	0.21	0.76	0.61	0.96^a	6.27
2009	0.38	0.44	0.35	0.28	0.78	0.47	0.15	0.27	0.09	0.68	0.32	0.42	4.63
2010	1.34	0.95	0.82	0.26	0.10	0.10	0.65	2.50	0.84	1.32	0.12	0.78	9.78
2011	0.03	0.18	0.34	1.09	0.86	0.01	0.65	0.05	1.02	1.86	0.55	0.30	6.94
Mean	0.52	0.50	0.67	0.60	0.52	0.24	0.83	1.05	1.04	1.01	0.65	0.44	8.08

*Traces of precipitation less than 0.01 inch may have occurred in months showing 0.00 inches.

^aHighest recorded precipitation for month (or year) in 43-year period.

^bLowest recorded precipitation for year in 43-year period.

Table 25. Total Number of Days in Which Measureable Snow Was Recorded (D), Total Depth of Snow in Inches (TOT), and Average Depth of Snow per Event (AV; in inches) in Each Month at NMSU's Agricultural Science Center at Farmington, 1987–2011

Year	October			November			December			January			February			March			April		
	D	TOT	AV	D	TOT	AV	D	TOT	AV	D	TOT	AV	D	TOT	AV	D	TOT	AV	D	TOT	AV
1987	0	-	-	1	2.0	2.0	2	19.0	9.5	0	-	-	5	21.3	4.3	2	3.0	1.5	0	-	-
1988	0	-	-	2	4.0	2.0	5	7.0	1.4	2	4.5	2.3	0	-	-	0	-	-	0	-	-
1989	0	-	-	0	-	-	0	-	-	3	9.5	3.2	4	8.5	2.1	1	2.0	2.0	0	-	-
1990	0	-	-	1	2.0	2.0	5	8.5	1.7	3	8.0	2.7	3	6.0	2.0	1	3.0	3.0	0	-	-
1991	1	2.0	2.0	5	10.0	2.0	3	1.8	0.6	2	3.0	1.5	0	-	-	2	4.5	2.3	0	-	-
1992	0	-	-	0	-	-	5	11.0	2.2	1	1.0	1.0	1	1.0	1.0	0	-	-	0	-	-
1993	0	-	-	0	-	-	0	-	-	0	-	-	2	2.0	1.0	1	0.3	0.3	0	-	-
1994	1	2.0	2.0	3	1.8	0.6	1	0.3	0.3	2	1.5	0.8	4	5.8	1.4	0	-	-	0	-	-
1995	0	-	-	0	-	-	4	1.5	0.4	4	4.0	1.0	0	-	-	0	-	-	0	-	-
1996	0	-	-	1	4.5	4.5	1	1.5	1.5	2	0.3	0.2	3	1.4	0.5	1	0.8	0.8	0	-	-
1997	1	2.0	2.0	0	-	-	2	4.0	2.0	4	8.3	2.1	5	4.8	1.0	0	-	-	0	-	-
1998	0	-	-	1	0.2	0.2	2	0.4	0.2	2	0.8	0.4	0	-	-	1	1.0	1.0	0	-	-
1999	0	-	-	1	0.4	0.4	1	1.0	1.0	0	-	-	0	-	-	1	1.5	1.5	1	2.0	2.0
2000	0	-	-	1	1.0	1.0	1	0.2	0.2	3	2.6	0.9	1	0.2	0.2	0	-	-	0	-	-
2001	0	-	-	0	-	-	3	1.9	0.6	6	5.6	0.9	2	6.8	3.4	1	1.0	1.0	2	1.2	0.6
2002	1	1.0	1.0	0	-	-	1	2.0	2.0	1	0.5	0.5	0	-	-	2	0.4	0.2	0	-	-
2003	0	-	-	1	0.8	0.8	0	-	-	0	-	-	3	3.0	1.0	1	2.0	2.0	0	-	-
2004	0	-	-	0	-	-	5	4.0	0.8	4	4.0	1.0	3	3.5	1.2	0	-	-	0	-	-
2005	0	-	-	0	-	-	1	0.4	0.4	3	2.2	0.7	2	1.0	0.5	1	0.1	0.1	0	-	-
2006	0	-	-	1	0.3	0.3	4	2.6	0.7	2	2.9	1.5	1	0.2	0.2	3	1.8	0.6	0	-	-
2007	0	-	-	1	0.3	0.3	4	1.0	0.3	5	5.4	1.1	1	0.3	0.3	0	-	-	0	-	-
2008	0	-	-	0	-	-	8	8.9	1.1	5	9.3	1.9	2	4.4	2.2	1	1.6	1.6	0	-	-
2009	2	3.4	1.7	1	0.5	0.5	4	3.2	0.8	4	4.0	1.0	2	4.0	2.0	4	0.8	0.2	0	-	-
2010	0	-	-	2	0.4	0.2	3	6.0	2.0	5	3.4	0.7	6	9.3	1.6	3	7.4	2.5	0	-	-
2011	0	-	-	1	0.5	0.5	7	1.8	0.3	1	1.0	1.0	0	-	-	0	-	-	0	-	-
Mean	0.2	0.4	1.7	0.9	1.1	1.2	2.9	3.5	1.2	2.6	3.3	1.3	2.0	3.3	1.7	1.0	1.2	1.2	0.1	0.1	1.1

Table 26. Average Daily (24-hour) Wind Run (miles/day) Measured at a Height of 6 Feet During Each Month at NMSU's Agricultural Science Center at Farmington, 1980–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1980	-	-	-	-	135	132	114	97	81	77	88	83	-
1981	111	79	144	121	115	81	64	85	74	82	76	54	90
1982	93	63	107	115	99	129	99	91	102	91	87	95	98
1983	115	138	154	146	143	120	115	105	113	111	132	134	127
1984	63	115	95	133	90	97	50	50	46	64	139	114	88
1985	91	127	185	156	142	136	135	134	126	126	73	118	129
1986	116	130	145	179	155	138	129	132	129	124	122	96	133
1987	139	133	140	159	137	127	120	120	130	114	116	77	126
1988	125	123	158	154	164	138	132	132	121	82	98	102	128
1989	93	135	151	148	130	124	128	118	123	115	110	107	124
1990	125	153	146	172	164	156	141	134	128	134	126	129	142
1991	103	123	191	192	167	134	140	121	129	114	106	88	134
1992	113	122	136	140	136	137	116	118	110	113	109	112	122
1993	160	140	155	174	136	86	56	82	102	85	94	-	-
1994	132	155	143	165	137	128	135	127	119	119	144	116	135
1995	140	125	149	168	174	137	129	116	113	136	130	102	135
1996	167	148	161	184	146	141	127	119	111	135	121	144	142
1997	107	151	146	153	135	114	110	103	104	117	121	105	122
1998	102	137	143	140	111	121	111	109	102	131	113	107	119
1999	140	145	148	187	190	92	84	100	106	98	95	126	126
2000	131	143	149	162	139	135	107	103	110	108	115	108	126
2001	116	126	175	146	140	129	105	109	119	126	112	125	127
2002	123	141	163	135	123	115	115	97	107	91	110	110	119
2003	98	131	144	140	134	127	105	108	113	103	115	130	121
2004	94	119	134	133	123	112	111	100	99	102	119	89	111
2005	93	113	147	153	117	113	111	94	98	99	119	114	114
2006	129	140	140	145	122	128	104	96	103	103	123	107	120
2007	94	135	120	147	120	129	109	89	95	116	106	128	116
2008	106	124	144	170	136	127	103	95	93	109	127	126	122
2009	100	120	145	155	109	97	97	86	99	101	87	112	109
2010	72	104	129	155	123	92	92	78	80	89	110	88	101
2011	80	112	134	157	123	108	80	79	78	84	104	74	101
Mean	112	127	146	154	135	121	109	104	105	106	111	107	120

Table 27. Average Daily Solar Radiation in Langleys (gram calories per square centimeter) as Measured with Pyranometers for Each Month at NMSU's Agricultural Science Center at Farmington, 1976–2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1976	-	-	-	-	508	603	535	-	-	-	-	-	-
1977	205	306	386	552	438	530	501	464	396	360	332	-	-
1978	157	295	334	459	490	586	636	491	400	292	185	167	374
1979	166	260	302	423	445	527	489	477	459	267	190	155	347
1980	135	225	300	489	557	646	610	507	436	342	274	145	389
1981	190	296	289	519	554	643	589	520	422	314	243	200	398
1982	129	215	369	536	596	707	651	565	470	393	227	210	422
1983	188	295	345	478	-	-	-	-	-	339	229	177	
1984	247	345	418	533	662	664	639	573	484	280	234	188	439
1985	204	303	359	475	561	648	590	561	413	335	228	214	408
1986	237	300	410	468	586	573	549	509	352	313	215	205	393
1987	222	281	458	548	540	635	618	443	468	346	228	182	414
1988	220	305	474	496	626	623	621	555	486	486	255	216	447
1989	224	280	419	544	628	633	557	570	498	361	277	219	434
1990	221	282	339	479	593	662	620	529	463	361	234	203	415
1991	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	189	259	355	510	531	609	548	501	451	323	238	167	390
1993	174	252	403	546	579	637	689	501	516	371	264	225	430
1994	241	288	398	481	558	648	623	538	430	261	192	154	401
1995	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	245	317	464	579	653	610	678	612	448	362	259	221	454
1997	242	306	535	514	614	658	641	568	492	390	268	221	454
1998	237	261	444	564	663	726	606	566	507	215	267	244	442
1999	263	363	459	528	625	703	623	516	503	439	319	241	465
2000	247	306	399	582	692	694	636	603	478	326	257	214	453
2001	241	323	408	584	652	604	616	581	542	397	287	242	456
2002	251	383	492	593	707	741	661	598	477	366	289	231	482
2003	255	315	452	596	640	719	692	604	510	394	200	191	464
2004	186	264	418	451	656	703	646	583	468	346	214	207	428
2005	206	272	402	526	624	639	664	539	442	347	277	239	431
2006	258	362	375	539	644	616	533	472	426	308	249	196	415
2007	228	284	397	539	562	676	535	455	407	406	310	220	418
2008	287	341	497	617	673	729	641	587	503	396	286	230	482
2009	262	352	431	541	608	589	637	581	473	358	276	206	443
2010	232	293	451	553	677	695	624	547	501	374	286	174	451
2011	272	359	465	562	668	712	651	570	465	374	260	209	464
Mean	220	300	407	527	600	648	611	540	462	350	253	190	427

Table 28. Total (TOT) and Average Daily (AV) PAN Evaporation in Inches for Each Month from April through October at NMSU's Agricultural Science Center at Farmington, 1972–2011^a

Year	April		May		June		July		August		September		October ^b	
	TOT	AV	TOT	AV	TOT	AV	TOT	AV	TOT	AV	TOT	AV	TOT	AV
1972	-	-	-	-	-	-	14.8	0.48	-	-	9.6	0.32	-	-
1973	-	-	-	-	-	-	11.5	0.37	10.7	0.35	-	-	-	-
1974	-	-	13.0	0.42	15.4	0.51	13.0	0.42	12.2	0.39	9.5	0.32	4.6	0.15
1975	-	-	9.4	0.30	12.1	0.40	12.1	0.39	12.6	0.41	8.0	0.27	7.3	0.24
1976	-	-	11.8	0.38	15.4	0.51	14.0	0.45	13.1	0.42	-	-	5.7	0.19
1977	9.1	0.30	12.1	0.39	15.1	0.50	13.1	0.42	12.2	0.39	9.5	0.32	-	-
1978	-	-	9.6	0.31	12.8	0.43	14.5	0.47	13.1	0.42	-	-	-	-
1979	8.3	0.28	8.6	0.28	-	-	-	-	10.6	0.34	9.5	0.32	-	-
1980	-	-	10.1	0.33	13.6	0.45	14.2	0.46	-	-	8.1	0.27	-	-
1981	7.9	0.26	9.5	0.30	13.1	0.44	-	-	-	-	7.7	0.26	-	-
1982	-	-	-	-	12.9	0.43	12.0	0.39	9.9	0.32	-	-	-	-
1983	-	-	-	-	11.6	0.39	12.2	0.39	11.2	0.36	8.7	0.29	-	-
1984	-	-	12.3	0.40	12.2	0.41	12.4	0.40	10.3	0.33	8.0	0.27	-	-
1985	-	-	9.0	0.29	12.4	0.41	12.6	0.41	11.6	0.37	6.8	0.23	-	-
1986	-	-	9.8	0.32	11.0	0.37	11.6	0.37	10.9	0.35	6.8	0.23	-	-
1987	-	-	-	-	11.5	0.38	-	-	-	-	8.4	0.28	-	-
1988	-	-	11.4	0.37	-	-	12.9	0.42	9.7	0.31	8.7	0.29	5.9	0.20
1989	-	-	12.3	0.40	12.6	0.42	-	-	11.0	0.36	9.3	0.31	-	-
1990	-	-	12.0	0.39	15.6	0.52	12.7	0.41	11.2	0.36	8.7	0.29	-	-
1991	9.1	0.30	11.5	0.37	11.2	0.37	12.7	0.41	11.2	0.36	8.3	0.28	-	-
1992	-	-	8.8	0.28	12.3	0.41	11.4	0.37	10.8	0.35	-	-	6.2	0.21
1993	9.8	0.33	10.6	0.34	14.0	0.47	14.7	0.47	9.9	0.32	9.5	0.32	-	-
1994	8.1	0.27	12.4	0.40	14.6	0.49	15.5	0.50	12.3	0.40	9.6	0.32	-	-
1995	-	-	9.9	0.32	12.6	0.42	14.1	0.45	11.5	0.37	8.5	0.28	7.4	0.25
1996	9.5	0.32	13.4	0.43	12.7	0.42	14.1	0.45	11.1	0.36	-	-	5.4	0.18
1997	7.4	0.25	9.9	0.32	12.0	0.40	12.0	0.39	9.5	0.31	7.9	0.26	5.5	0.18
1998	7.5	0.25	11.5	0.37	14.3	0.48	12.8	0.41	11.3	0.37	9.9	0.33	5.6	0.19
1999	7.9	0.26	10.9	0.35	13.4	0.45	11.5	0.37	9.3	0.30	8.1	0.27	7.2	0.24
2000	10.0	0.33	13.2	0.43	14.0	0.47	13.2	0.43	11.2	0.36	9.0	0.30	4.5	0.15
2001	8.4	0.28	12.2	0.39	14.0	0.47	12.2	0.40	11.1	0.36	10.7	0.36	7.0	0.23
2002	-	-	13.5	0.43	14.8	0.49	14.0	0.45	12.2	0.39	7.7	0.26	4.4	0.15
2003	8.4	0.28	11.8	0.38	14.7	0.49	15.6	0.50	12.3	0.40	9.4	0.31	6.2	0.21
2004	7.4	0.25	12.8	0.41	14.2	0.47	13.7	0.44	11.4	0.37	7.9	0.26	4.8	0.16
2005	8.3	0.28	11.4	0.37	12.6	0.42	15.1	0.49	10.5	0.34	8.1	0.27	4.8	0.16
2006	-	-	12.9	0.42	14.8	0.49	12.5	0.40	10.4	0.34	7.5	0.25	4.8	0.16
2007	8.0	0.27	9.8	0.32	13.5	0.45	12.9	0.42	11.1	0.36	8.7	0.29	6.3	0.21
2008	9.7	0.32	11.1	0.36	13.8	0.46	11.9	0.39	11.3	0.36	8.9	0.30	6.1	0.20
2009	8.4	0.28	-	-	10.2	0.34	13.3	0.43	11.1	0.36	8.1	0.27	-	-
2010	8.4	0.28	11.2	0.36	12.4	0.41	11.9	0.38	9.7	0.31	8.6	0.29	5.3	0.18
2011	8.7	0.29	11.2	0.36	14.4	0.48	13.0	0.42	11.6	0.37	7.7	0.26	-	-
Mean	8.5	0.28	11.2	0.36	13.3	0.44	13.1	0.42	11.1	0.36	8.6	0.29	5.7	0.19

^aData are shown only for months in which PAN evaporation measurements were taken every day of the month except for October.

^bValues shown for October represent totals and means from the 1st to 30th only.

Table 29. Coefficients of Polynomial Regression Equations (EQ) Shown in Figures of This Report Describing the Relationships of Various Parameters with Day of Year (x) in the Form: $Y = a + b_1x^1 + b_2x^2 + b_3x^3 + b_4x^4 + b_5x^5 + b_6x^6$

EQ	Parameter (Y)	a	b ₁	b ₂	b ₃	b ₄	b ₅	b ₆	r ²
1	Daily High, °F	37.37	0.25	-0.0013724	2.836606 x 10 ⁻⁵	-1.46 x 10 ⁻⁷	2.017555 x 10 ⁻¹⁰	n.s.	0.993
2	Daily Low, °F	13.96	0.492	-0.010036	1.1591 x 10 ⁻⁴	-5.48073 x 10 ⁻⁷	1.0803 x 10 ⁻⁹	-7.37639 x 10 ⁻¹³	0.993
3	Wind (NMCC), mpd	136.5	-1.56	0.07076	-8.02748 x 10 ⁻⁴	3.83336 x 10 ⁻⁶	-8.33433 x 10 ⁻⁹	6.8226 x 10 ⁻¹²	0.828
4	Wind (NWS), mpd	109.0	-0.4615	0.03667	-4.6154 x 10 ⁻⁴	2.29786 x 10 ⁻⁶	-5.08915 x 10 ⁻⁹	4.19078 x 10 ⁻¹²	0.794
5	Solar Radiation, Ly	190.5	0.961	0.04603	-2.83776 x 10 ⁻⁴	4.132716 x 10 ⁻⁷	n.s.	n.s.	0.985
6	PAN (NWS), in./day	-0.312	0.00789	-2.1475 x 10 ⁻⁵	n.s. ^a	n.s.	n.s.	n.s.	0.846
7	PAN (NMCC), in./day	-0.367	0.00915	-3.4122 x 10 ⁻⁵	2.99517 x 10 ⁻⁸	n.s.	n.s.	n.s.	0.899
8	GDD (Alfalfa)	-125.6	12.3197	-0.26856	0.002797	-8.5897 x 10 ⁻⁶	8.24688 x 10 ⁻⁹	n.s.	1.000
9	GDD (Corn)	-88.0	9.3306	-0.24314	0.002421	-7.44087 x 10 ⁻⁶	7.25814 x 10 ⁻⁹	n.s.	1.000
10	ETrs, in./day	0.0843	-0.002	7.8545 x 10 ⁻⁵	-4.8227 x 10 ⁻⁷	1.037 x 10 ⁻⁹	-7.2568 x 10 ⁻¹³	n.s.	0.981
11	ETos, in./day	0.0551	-0.00136	5.1296 x 10 ⁻⁵	-2.9107 x 10 ⁻⁷	5.3573 x 10 ⁻¹⁰	-2.62416 x 10 ⁻¹³	n.s.	0.986

^an.s.- Coefficient not significant (P > 0.05).

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