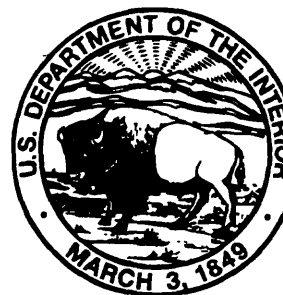


Selected Meteorological and Micrometeorological Data for an Arid Site Near Beatty, Nye County, Nevada, Calendar Year 1992

By James L. Wood

U.S. GEOLOGICAL SURVEY

Open-File Report 96-434



Carson City, Nevada
1996

**U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary**

**U.S. GEOLOGICAL SURVEY
GORDON P. EATON, Director**

Any use of trade names in this publication is for descriptive purposes only and does not constitute endorsement by the U.S. Government

**For additional information
write to:**

**District Chief
U.S. Geological Survey
333 West Nye Lane, Room 203
Carson City, NV 89706-0866**

**Copies of this report can be
purchased from:**

**U.S. Geological Survey
Branch of Information Services
Box 25286
Denver, CO 80225-0046**

CONTENTS

| | |
|--|----|
| Abstract | 1 |
| Introduction | 1 |
| Instrumentation | 3 |
| Selected Meteorological Data | 5 |
| Air Temperature..... | 5 |
| Relative Humidity..... | 5 |
| Vapor Pressure | 6 |
| Incident Solar Radiation | 6 |
| Net Radiation..... | 6 |
| Windspeed and Wind Vector | 6 |
| Barometric Pressure..... | 9 |
| Precipitation..... | 9 |
| Soil Temperature and Soil-Heat Flux..... | 11 |
| Summary | 11 |
| References Cited | 14 |
| Basic Data | 15 |

FIGURES

| | |
|---|----|
| 1-2. Maps showing location of: | |
| 1. Study site and adjacent waste-disposal facility near Beatty, Nev..... | 2 |
| 2. Weather station and related unsaturated-zone monitoring shaft, psychrometer borehole, and neutron-probe access tubes at study site..... | 4 |
| 3-8. Graphs showing meteorological data for 1992, computed from hourly or 20-minute mean values: | |
| 3. Daily maximum, daily mean, and daily minimum air temperature..... | 7 |
| 4. Daily mean relative humidity | 7 |
| 5. Daily mean vapor pressure | 7 |
| 6. Daily maximum incident solar radiation | 8 |
| 7. Daily maximum net radiation..... | 8 |
| 8. Daily mean windspeed | 8 |
| 9. Diagram showing computation of daily mean wind-vector direction and magnitude..... | 10 |
| 10-13. Graphs showing: | |
| 10. Daily mean barometric pressure for 1992 computed from 10-minute mean values | 10 |
| 11. Precipitation at and near study site for 1992 | 12 |
| 12. Daily mean soil temperature for 1992 computed from 20-minute mean values | 13 |
| 13. Daily mean soil-heat flux for 1992 computed from 20-minute mean values | 13 |

TABLES

| | |
|---|----|
| 1. Monthly maximum, minimum, and mean measured air temperatures at study site for 1992..... | 5 |
| 2. Daily total precipitation at study site for 1992..... | 11 |
| 3. Summary of selected meteorological data collected at study site in 1992..... | 16 |
| 4. Summary of soil-temperature, soil-heat-flux, and net-radiation measurements collected at study site in 1992..... | 27 |
| 5. Summary of barometric-pressure data collected at study site in 1992 | 30 |

CONVERSION FACTORS AND VERTICAL DATUM

| Multiply | By | To obtain |
|---|----------|--|
| centimeter (cm) | 0.3937 | inch |
| kilometer (km) | 0.6214 | mile |
| kilopascal (kPa) | 0.1450 | pound per square inch |
| meter (m) | 3.281 | foot |
| meter per second (m/s) | 3.281 | foot per second |
| millimeter (mm) | 0.03937 | inch |
| millimeter per hour (mm/hr) | 25.40 | inch per hour |
| watt per square meter (W/m ²) | 0.005290 | British Thermal Unit per square foot per minute |

Temperature: Degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) by using the formula °F = [1.8(°C)]+32. Degrees Fahrenheit can be converted to degrees Celsius by using the formula °C = 0.556(°F-32).

Sea level: In this report, “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929, formerly called “Sea-Level Datum of 1929”), which is derived from a general adjustment of the first-order leveling networks of the United States and Canada.

Selected Meteorological and Micrometeorological Data for an Arid Site Near Beatty, Nye County, Nevada, Calendar Year 1992

By James L. Wood

ABSTRACT

Selected meteorological, soil-temperature, and soil-heat-flux data were collected at a study site adjacent to a low-level radioactive-waste burial facility near Beatty, Nevada, for calendar year 1992. Data were collected in support of ongoing studies to estimate the potential for downward movement of radionuclides into the unsaturated sediments beneath waste-burial trenches at the arid facility. Data collected for the whole year include air temperature, relative humidity, vapor pressure, incident solar radiation, windspeed, wind direction, barometric pressure, and precipitation. Net radiation, soil temperature, and soil-heat flux data also were collected for part of the year. The data are summarized in tables and graphs.

Instrumentation used at the site is discussed. The discussion includes the type, reported accuracy, and the mounting height of each sensor.

During 1992, the hourly and 20-minute mean air temperatures ranged from -8.6 degrees Celsius, in January, to 42.3 degrees Celsius, in July. Hourly and 20-minute mean relative humidity ranged from 2 percent to 100 percent. Hourly and 20-minute mean vapor pressures ranged from 0.07 to 2.47 kilopascals. Daily maximum incident solar radiation values ranged from 115 to 1,021 watts per square meter. Daily maximum net-radiation values ranged from 195 to 632 watts per square meter. Daily mean windspeed ranged from 0.6 to 8.1 meters per second. Wind direction was primarily from the northwest in fall, winter, and spring and was from the southeast, southwest, or northwest during the summer. Barometric

pressures ranged from 100.16 kilopascals to 103.38 kilopascals. Total precipitation for 1992 was 165.3 millimeters, with more than 50 percent in February and March. Daily mean soil temperatures at a depth from 2 to 6 centimeters ranged from 10.7 to 39.1 degrees Celsius between June and October. Daily mean soil-heat flux at a depth of 8 centimeters ranged from -13.4 to 12.2 watts per square meter during the same period.

INTRODUCTION

Meteorological data were collected near the low-level radioactive-waste burial facility near Beatty, Nev., in support of ongoing studies (Andraski and others, 1995) to estimate the potential for downward movement of radionuclides into the unsaturated sediments beneath waste-burial trenches at the facility (fig. 1B). This report presents and summarizes the data collected for calendar year 1992. Instrumentation used to collect the data is described also. This report is the sixth in a series of meteorological data reports published for this site (Wood and Fischer, 1991, 1992; Wood and others, 1992; Wood and Andraski, 1992, 1994) that present data for the overall 7-year period 1986-92. The meteorological data collected in calendar year 1992 include air temperature, relative humidity, vapor pressure, incident solar radiation, windspeed, wind direction, barometric pressure, and precipitation. Windspeed and wind vector are assumed horizontal. In addition, data on net radiation, soil temperature, and soil-heat flux were collected from June through October. Hourly, 20-minute, and summary data are available in digital form by contacting the U.S. Geological Survey, Water Resources Division office in Carson City, Nev.

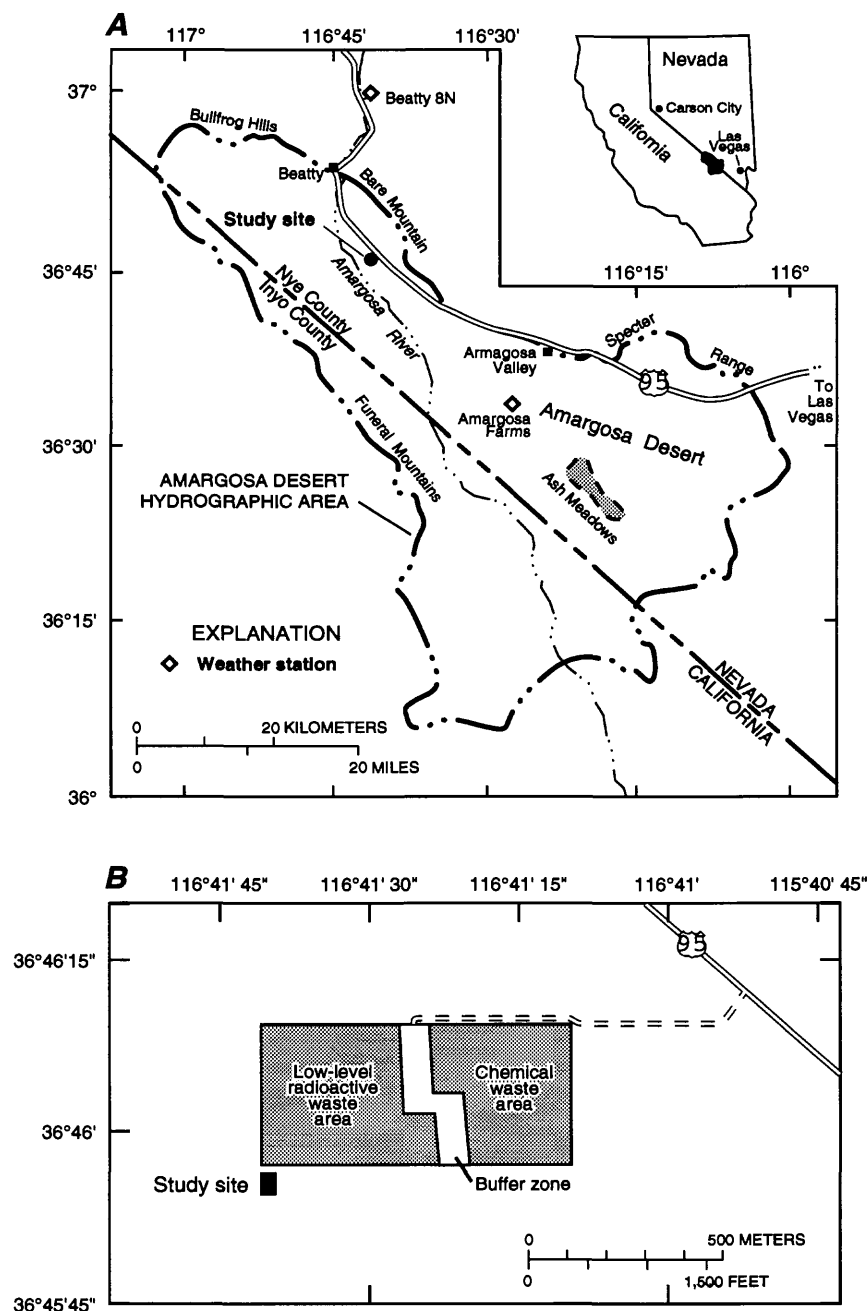


Figure 1. Location of study site and adjacent waste-burial site near Beatty, Nev.

The waste-burial facility in the Amargosa Desert, 17 km southeast of Beatty and 169 km northwest of Las Vegas, Nev., (fig. 1A) has been operating since 1962. The disposal facility was the first commercially operated in the United States. Burial of low-level radioactive wastes ceased at the end of 1992, although burial of hazardous chemical wastes continues (fig. 1B). At this facility, waste is emplaced in 2- to 15-m deep trenches and covered by backfilling with previously excavated materials. The Amargosa Desert in the vicinity of the waste-burial facility is a northwest trending

valley about 13 km wide. Vegetation is sparse, with creosote bush (*Larrea tridentata*) being the dominant species.

The study site (altitude 847 m above sea level), is situated in one of the most arid parts of the United States. Annual precipitation at the study site between 1986 and 1992 ranged from 14 mm in 1989 to 165 mm in 1992 and averaged 90 mm. Mean annual precipitation is about 114 mm at Beatty (altitude, 1,005 m), and 74 mm at Amargosa Farms (formerly Lathrop Wells; altitude, 817 m), 30 km southeast of the site (Nichols,

1987, p. 15). No perennial streams are within 16 km of the site and the dry (ephemeral) bed of the Amargosa River is the principal drainage channel (fig. 1A).

A detailed view of part of the study site is shown in figure 2. The site is enclosed by a chainlink fence approximately 2-m high topped with $\frac{1}{2}$ m of razor ribbon and is patrolled by security personnel from the adjacent commercial waste-disposal facility; this provides protection against vandalism. In addition to data collected at the meteorological station, soil-moisture data are collected from three neutron-probe access tubes, and soil-temperature and water-potential data are collected from sensors installed at several depths in a monitoring shaft (fig. 2). An undisturbed area is maintained south of the shaft site where no vehicle traffic is allowed and foot traffic is restricted to a designated path. A description of the unsaturated-zone monitoring is presented by Fischer (1992).

INSTRUMENTATION

Meteorological sensors consisting of an air-temperature and relative-humidity sensor, silicon pyranometer, anemometer, wind vane, and tipping-bucket rain gage were installed in July 1991. These sensors were replaced as part of annual rotation in April 1992. Temperature, relative-humidity, solar-radiation, wind-speed, wind-direction, and precipitation sensors were replaced with identical sensors during the reinstrumentation procedure. A barometric-pressure sensor was installed in June 1990. Because of cost, the barometer was not scheduled for annual rotation with an equivalent sensor. In June 1992, soil-temperature probes, soil-heat-flux plates, and a net radiometer also were installed at the site. All sensors were factory calibrated prior to installation.

Data from the sensors were recorded using a Campbell Scientific, Inc., (CSI) 21X data logger. The temperature/relative-humidity sensor, silicon pyranometer, anemometer, and wind vane were mounted on a CSI CM10 tripod. The temperature/relative-humidity sensor was installed at 1.6 m above ground level. Windspeed and wind-direction sensors were mounted at 3.4 m. The solar-radiation sensor was mounted on a horizontal arm at a height of 3.0 m, and the precipitation tipping-bucket gage was installed on a separate mount about 10 m from the tripod at a height of 1.0 m. All heights are approximate. The CSI CM10 tripod is approximately 40 m from the CSI data logger housed in a shed on the site (fig. 2).

Soil-temperature probes and soil-heat-flux plates were buried according to accepted procedures about 5 m from the tripod. Two soil-heat-flux plates were used in conjunction with four soil-temperature measuring thermocouples to measure soil-heat flux. Two thermocouples were buried in the soil at depths of 2 cm and 6 cm directly above a heat flux plate, which was buried at a depth of 8 cm. Another thermocouple pair and heat-flux plate were buried in the same manner about 2 m away. The location of the two heat-flux plates/thermocouples was chosen to be representative of the area being studied. The net radiometer was mounted on a separate upright approximately 10 m from the tripod at a height of 2.5 m. An approximate ratio of bare soil to vegetation was determined and the location of the net radiometer was chosen to be representative of this ratio.

The Vaisala HMP35c temperature-relative humidity probe is capable of making measurements over a full range of 0-100 percent relative humidity. The 0-10-percent range is of particular interest at the arid study site near Beatty. According to manufacturer specifications, accuracy of the probe at 20°C against factory references is ± 1 percent within the range of 0 to 90 percent relative humidity. The accuracy of the probe against field references is ± 2 percent within the range of 0 to 90 percent relative humidity, and ± 3 percent within the range of 90 to 100 percent relative humidity. Temperature dependence is listed as ± 0.04 percent relative humidity per degree Celsius, with a typical long-term stability less than 1 percent relative humidity per year. The "worst case" temperature accuracy is $\pm 0.4^\circ\text{C}$ over the range of -33 to $+48^\circ\text{C}$. The Vaisala probe was mounted inside a 12-plate Gill radiation shield.

The anemometer is a model 014A, supplied by MET ONE, with an accuracy of 1.5 percent and a threshold of 0.45 m/s. The wind vane is a model 024A, also from MET ONE, and has a specified accuracy of ± 5 degrees and a threshold of 0.45 m/s. The tipping-bucket rain gage is a Weathermeasure model P-501 with a sensitivity and resolution of 0.25 mm and an accuracy of 0.5 percent at 128.7 mm/hr. The silicon pyranometer is a LICOR LI200S calibrated against an Eppley Precision Spectral Pyranometer, which has a maximum error of ± 5 percent. The CSI SBP270 barometric pressure sensor has a range of 80 to 110 kilopascals (kPa), and an accuracy of ± 0.02 kPa. The barometer is mounted alongside the data logger inside the shed (fig. 2). All sensor specifications are supplied by manufacturers.

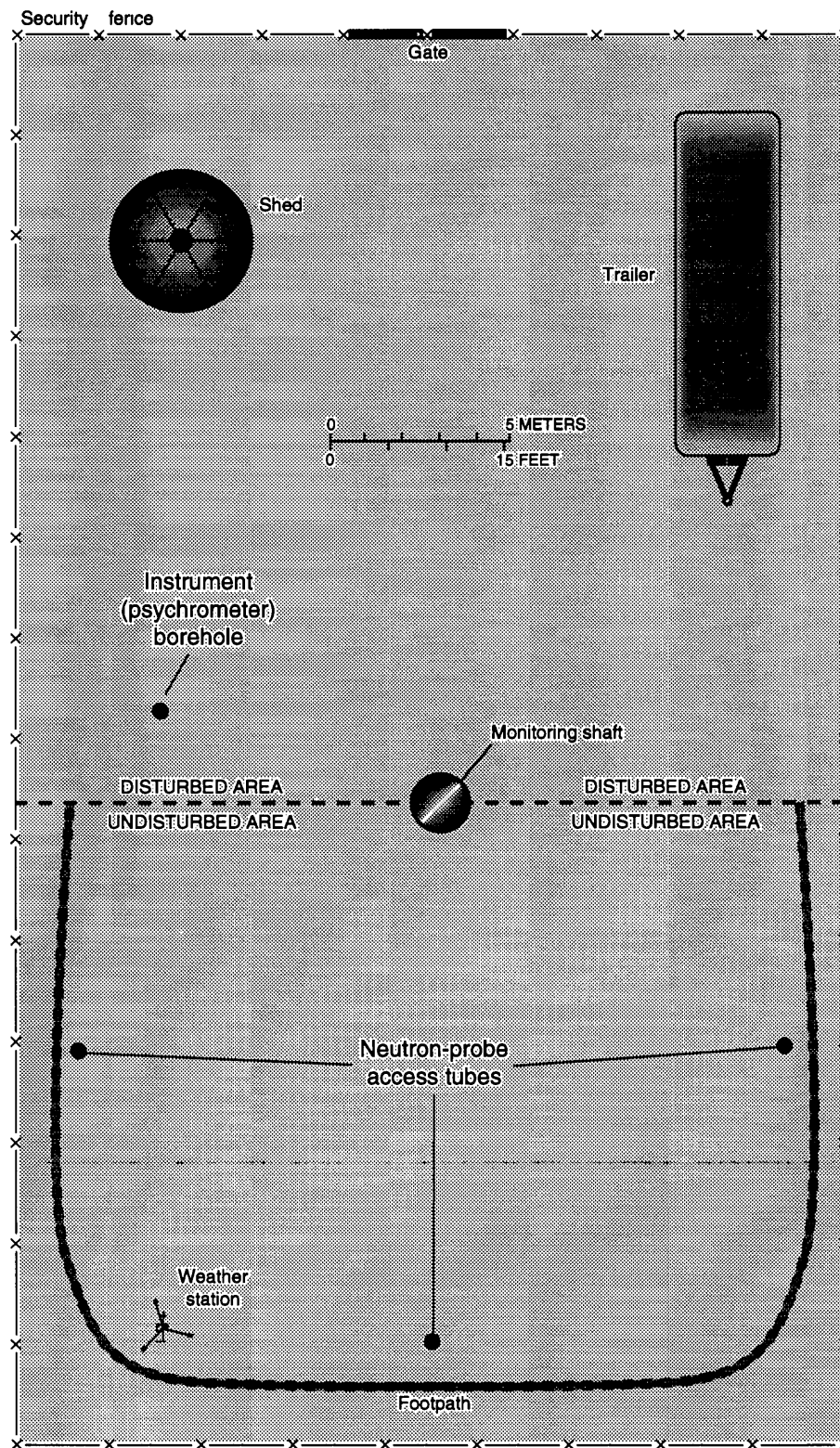


Figure 2. Location of weather station and related unsaturated-zone monitoring shaft, psychrometer borehole, and neutron-probe access tubes at study site near Beatty, Nev. Monitoring shaft is used to measure water potentials and neutron-probe access tubes are used to measure moisture content. Location of study site is shown in figure 1.

The soil-temperature probe is a TCAV Averaging Soil Thermocouple Probe manufactured by CSI. The TCAV probe parallels four separate thermocouple junctions into one. The TCAV probe, which is constructed with Type-E thermocouple wire (chromel-constantan), is used in conjunction with two HFT-1 soil-heat-flux plates (nominal resistance 2 ohms) manufactured by Radiation and Energy Balance Systems, Inc., (REBS) to calculate heat flux at the surface of the soil.

Net radiation is measured with a REBS Q-6 net radiometer, which contains a high-output, 62-junction thermopile. Nominal resistance of the thermopile is 4 ohms.

SELECTED METEOROLOGICAL DATA

Measurements of air temperature, relative humidity, incoming solar radiation, windspeed, and wind direction were made by the 21X data logger every 10 seconds. Barometric pressure, soil temperature, soil-heat flux, and net radiation were measured every 30 seconds. From January 1 to May 31, these measurements were used by the 21X data logger to compute hourly means of air temperature, relative humidity, vapor pressure, solar radiation, windspeed, wind direction, and standard deviation of the wind direction. From June 1 through December 31, these means were computed at 20-minute intervals. An average barometric pressure was computed every 10 minutes for the year. Precipitation was recorded at 5-minute intervals only during storms, and totaled for each day. The hourly and 20-minute mean values and total precipitation values were automatically retrieved from the data logger to a personal computer using telecommunications and data-retrieval programs. Data from the data logger were retrieved daily. A cassette tape connected to the data logger was used as a backup to the automatic data-retrieval system. The hourly mean values were used to compute daily means, daily maximums, and daily minimums of air temperature, relative humidity, vapor pressure, solar radiation, windspeed, wind direction, barometric pressure, soil temperature, soil-heat flux, and net radiation and are summarized in tables 3, 4, and 5 at the end of this report.

Air Temperature

Maximum and minimum values of hourly mean air temperatures for each month and a monthly mean value are listed in table 1. The minimum temperature of -8.6°C was measured on December 21, and the maximum of 42.3°C was measured on August 10.

Seasonal and daily temperature fluctuations are large in the vicinity of the study area. Differences between daily maximum and minimum hourly mean temperatures commonly exceed 20°C. The difference between winter minimum and summer maximum temperatures was more than 50°C. Daily maximum, daily mean, and daily minimum air temperatures for 1992 are shown in figure 3.

Table 1. Monthly maximum, minimum, and mean measured air temperatures at study site near Beatty, Nev., for 1992

[Temperatures are degrees Celsius. Hourly or 20-minute mean values --, indicates missing data]

| Month | Maximum | Day | Minimum | Day | Mean |
|-----------|---------|-----|---------|-----|------|
| January | 20.3 | 27 | -3.7 | 2 | 6.1 |
| February | 22.6 | 27 | -1.9 | 4 | 10.3 |
| March | 23.1 | 11 | 3.6 | 24 | 12.0 |
| April | 31.4 | 30 | 6.4 | 20 | -- |
| May | 34.5 | 25 | 11.9 | 20 | 24.4 |
| June | 38.9 | 27 | 7.6 | 15 | 25.9 |
| July | 41.5 | 17 | 13.6 | 2 | 29.5 |
| August | 42.3 | 10 | 10.8 | 30 | 29.0 |
| September | 37.3 | 8 | 9.9 | 26 | 25.7 |
| October | 34.3 | 11 | 6.7 | 6 | 19.5 |
| November | 25.8 | 13 | -8.4 | 26 | 8.6 |
| December | 17.4 | 23 | -8.6 | 21 | 3.7 |

Relative Humidity

Relative humidity is the ratio of the amount of water vapor in the air at a specific temperature to the maximum amount of water vapor the air can hold at that temperature and is expressed as a percent. Daily mean, daily maximum, and daily minimum relative-humidity values computed from hourly and 20-minute mean values are listed in table 3. Daily mean relative-humidity values are shown in figure 4. Daily mean values ranged from 6 to 93 percent. In contrast, hourly mean values range from 2 percent during the drier summer months to 100 percent during winter storms.

Vapor Pressure

Water-vapor content of air can be expressed in terms of the partial pressure exerted by the water vapor, or vapor pressure (Campbell, 1977, p. 21). Vapor pressure was determined by first calculating the saturation vapor pressure at the measured air temperature, which is the highest concentration of water vapor that can exist in equilibrium with a plane free-water surface at that temperature. This value was obtained by using the formula from Lowe (1977):

$$E = a_0 + a_1T + a_2T^2 + a_3T^3 + a_4T^4 + a_5T^5 + a_6T^6 \quad (1)$$

where,

E is saturation vapor pressure, in millibars;
 T is temperature, in degrees Celsius; and
 a_i is numerical constant for each term of the polynomial ($i=0,1,\dots,6$).

The numerical constants in equation 1 are as follows:

$$a_0=6.10779991$$

$$a_1=4.436518521 \times 10^{-1}$$

$$a_2=1.428945805 \times 10^{-2}$$

$$a_3=2.650648471 \times 10^{-4}$$

$$a_4=3.031240396 \times 10^{-6}$$

$$a_5=2.034080948 \times 10^{-8}$$

$$a_6=6.136820929 \times 10^{-11}$$

The saturation vapor pressure value was then divided by 10 to convert from millibars to kilopascals. Ambient vapor pressure was computed each time relative humidity and temperature were measured (10 seconds).

Daily mean, daily maximum, and daily minimum values of vapor pressure are listed in table 3. Daily mean vapor pressures are shown in figure 5. Hourly and 20-minute mean values during 1992 range from 0.07 kPa on October 7 and 8 to 2.47 kPa on May 12. Vapor pressures generally are greater during the warmer summer months and smaller during cooler winter months (fig. 5). Vapor-pressure peaks throughout the year generally correlate with precipitation listed in table 2 and shown in figure 12.

Incident Solar Radiation

Daily mean and daily maximum incident solar radiation computed from hourly and 20-minute mean values are listed in table 3. Incident solar radiation is the amount of short-wave radiation that reaches the earth. Generally, daily mean and daily maximum radiation values were

greater from May through August, and smaller from November through February, coinciding with seasonal cycles.

Maximum solar radiation values computed from hourly and 20-minute mean values for each day are shown in figure 6. Computed values ranged from 115 W/m² on February 6 to 1,021 W/m² on May 24.

Net Radiation

Net radiation is the difference between total upward and downward radiation fluxes and is a measure of the energy available at the ground surface. Alternately, net radiation can be described as the radiative energy retained by the surface for heating soil and air, plant growth, and water evaporation. Net radiation is important because it drives the processes of evapotranspiration, soil and air heating, and other, smaller energy-consuming processes such as photosynthesis (Rosenberg and others, 1983).

Daily mean, daily maximum, and daily minimum values of net radiation are listed in table 4. Daily mean values of net radiation computed from the 20-minute mean values are shown in figure 7. Computed values ranged from 232 W/m² on October 29 to 632 W/m² on July 15.

Windspeed and Wind Vector

Daily mean, daily maximum, and daily minimum values of windspeed computed from hourly and 20-minute mean values are listed in table 3. Daily mean windspeeds are shown in figure 8. Daily mean windspeeds ranged from a minimum of 0.6 m/s on December 9 to a maximum of 8.1 m/s on January 12. The hourly and 20-minute mean values range from the threshold value of 0.45 m/s on numerous days to 13.6 m/s on January 11 and 12. Because the data logger was programmed to record only values at least as great as the threshold value, actual windspeeds may have been significantly less than 0.45 m/s, possibly approaching zero at times.

Daily mean horizontal wind vector is summarized in table 3 in terms of wind-vector direction and magnitude as described by Campbell Scientific, Inc. (1989, p. 11-4 through 11-8). Wind vector was used in summarizing daily mean wind direction and is reported as a daily mean wind-vector direction.

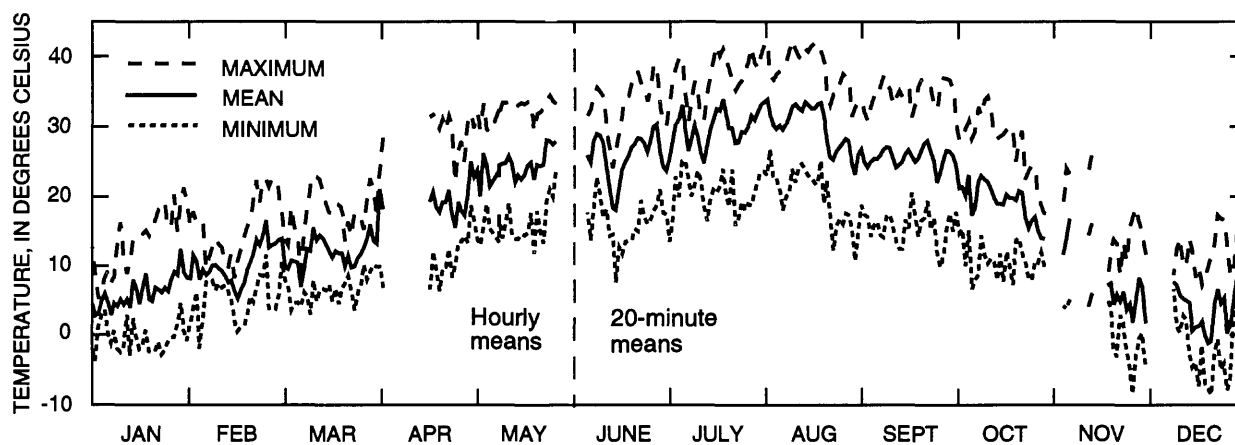


Figure 3. Daily maximum, daily mean, and daily minimum air temperature for a site near Beatty, Nev., 1992, computed from hourly mean values from January 1 to May 31 and 20-minute mean values from June 1 to December 31.

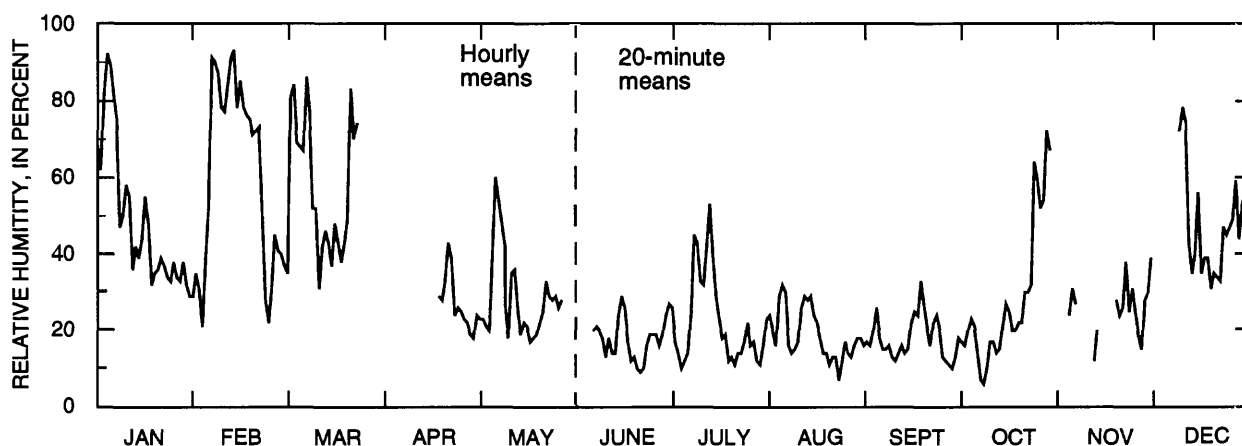


Figure 4. Daily mean relative humidity for a site near Beatty, Nev., 1992, computed from hourly mean values from January 1 to May 31 and 20-minute mean values from June 1 to December 31.

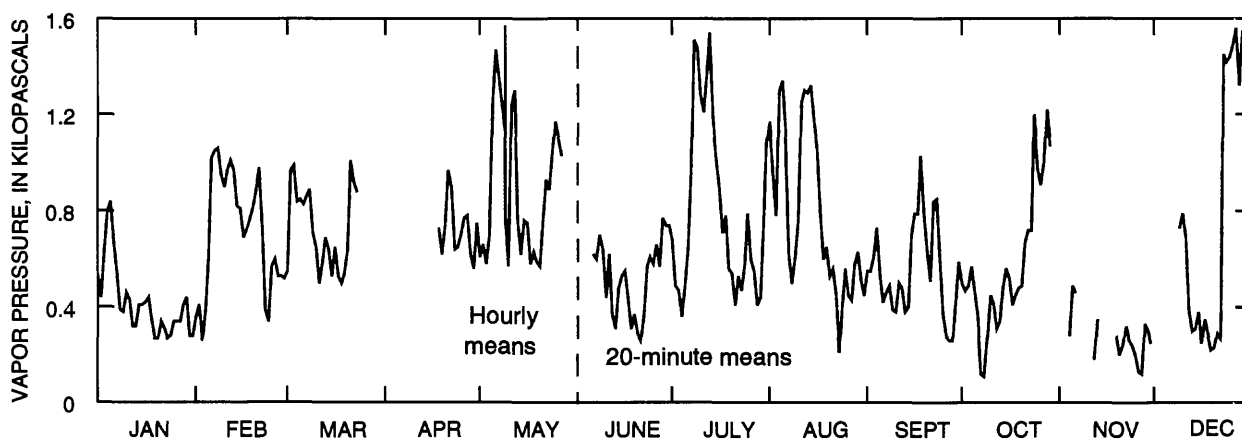


Figure 5. Daily mean vapor pressure for a site near Beatty, Nev., 1992, computed from hourly mean values from January 1 to May 31 and 20-minute mean values from June 1 to December 31.

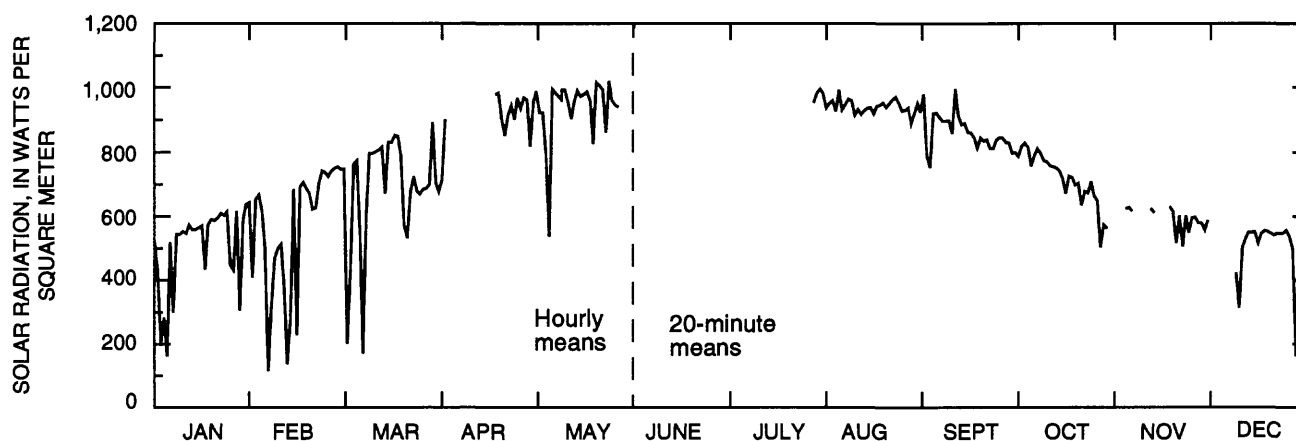


Figure 6. Daily maximum incident solar radiation from a site near Beatty, Nev., 1992, computed from hourly mean values from January 1 to May 31 and 20-minute mean values from June 1 to December 31.

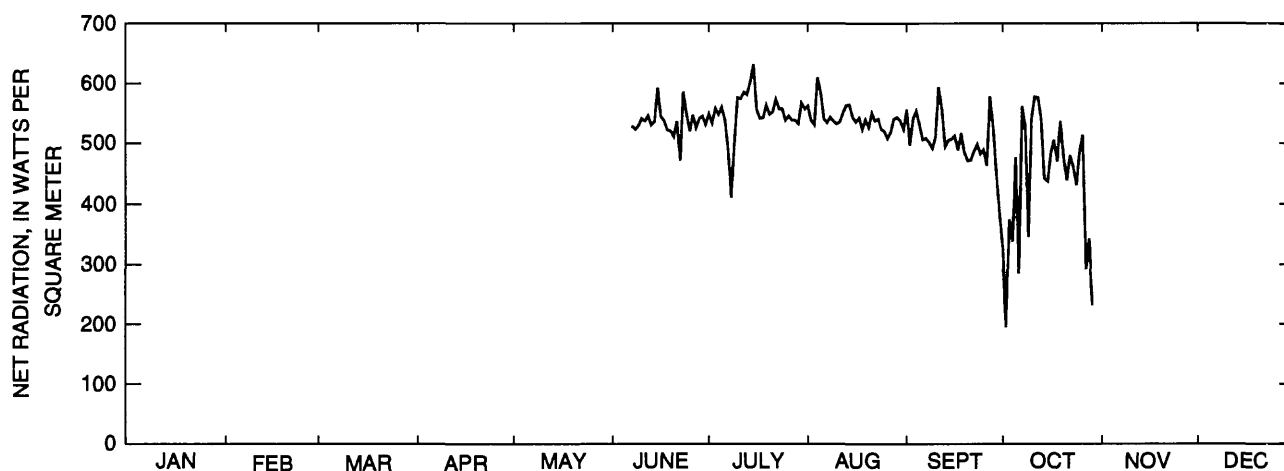


Figure 7. Daily maximum net radiation for a site near Beatty, Nev., 1992, computed from 20-minute mean values.

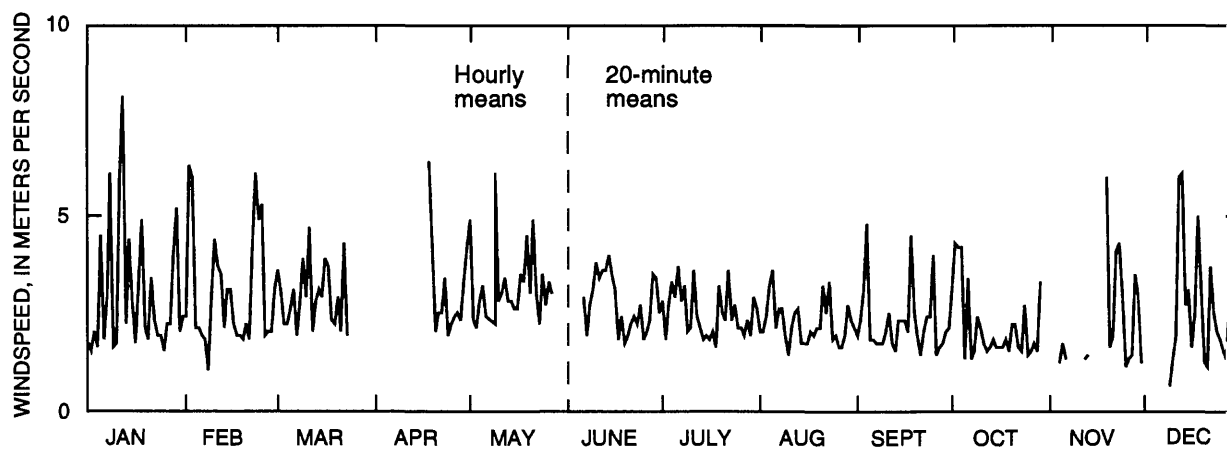


Figure 8. Daily mean windspeed for a site near Beatty, Nev., 1992, computed from hourly mean values from January 1 to May 31 and 20-minute mean values from June 1 to December 31.

Daily mean wind-vector magnitude, in degrees Azimuth, and wind-vector direction, in meters per second, were determined by summing the hourly and 20-minute mean wind vectors as shown in figure 9. At the end of each 24-hour period, the daily mean wind-vector direction ($\bar{\theta}$) was calculated using Campbell Scientific, Inc. (1989a), equation 11-6:

$$\bar{\theta} = \text{atan}(\bar{X}/\bar{Y}) \quad (2)$$

where,

\bar{X} is the sum of each hourly wind-vector magnitude multiplied by the sine of the hourly or 20-minute mean wind-vector direction and divided by the number of mean values. \bar{X} is positive to the east; and

\bar{Y} is the sum of each hourly or 20-minute mean wind-vector magnitude multiplied by the cosine of the hourly wind-vector direction and divided by the number of mean values. \bar{Y} is positive to the north.

The daily mean wind-vector magnitude (\bar{U}) was calculated using Campbell Scientific, Inc. (1989a), equation 11-3:

$$\bar{U} = \sqrt{\bar{X}^2 + \bar{Y}^2} \quad (3)$$

Daily mean wind-vector direction ranges from 0 to 360 degrees Azimuth (increasing degrees clockwise from north). The wind-vector direction calculated from equation 2 was transformed into degrees Azimuth on the basis of \bar{X} and \bar{Y} . For positive \bar{X} and \bar{Y} , the value calculated from equation 2 is the daily mean wind-vector direction in degrees Azimuth. For negative values of \bar{Y} , the calculated value of wind-vector direction is added to 180 degrees, and for a negative value of \bar{X} and a positive value of \bar{Y} , the calculated value is added to 360 degrees. Equation 2 is indeterminate when \bar{Y} is zero. Therefore, when $\bar{Y}=0$, the daily mean wind-vector direction was set to 90 degrees Azimuth for positive values of \bar{X} and 270 degrees Azimuth for negative values of \bar{X} .

Daily mean wind-vector directions indicate seasonal variability in wind direction for 1992. Wind at the study site was predominantly from the northwest during January and February. Northwest winds also prevailed during March, April, and May but with a somewhat larger proportion coming from the southwest and southeast. Winds in June, July, and August were more evenly distributed from the northwest,

southwest, and southeast. Winds changed again in September and northwesterly patterns dominated for the remainder of the year.

Barometric Pressure

A CSI SBP270 Barometric Pressure Sensor is installed next to the 21X data logger in the shed (fig. 2). Ten-minute pressure values were gathered throughout the year. The true barometric pressure at the site was determined by calculating the correction factor (P), in millibars, using the formula (Campbell Scientific, Inc., 1989b):

$$P = mv \times 1.2 + 800 + \left[1 - \left(1 - \frac{\text{altitude}}{44307.69} \right)^{5.253} \right] \quad (4)$$

where,

mv is millivolt output of barometer,

1.2 is barometer multiplier,

800 is barometer offset,

altitude is in meters above sea level, and

P is output, in millibars, and is multiplied by 0.1 to obtain kilopascals.

Daily mean, daily maximum, and daily minimum values of barometric pressures for 1992 are listed in table 5. Daily mean barometric-pressure values computed from 10-minute mean values are shown in figure 10. The minimum barometric pressure measured in 1992 was 100.16 kPa, on January 5, and the maximum was 103.38 kPa, on November 27.

Precipitation

Due to the infrequent precipitation at the study site, precipitation is not included in table 3, but is summarized in table 2 and figure 11. Total measured precipitation for the year was 165.3 mm, which is the most precipitation measured for any year from 1986 to 1992 (Wood and Fischer, 1991, 1992; Wood and others, 1992; Wood and Andraski, 1992, 1994). Mean annual precipitation from 1986 through 1992 is 90 mm.

Monthly precipitation values measured at the study site are shown in figure 11A. Monthly precipitation ranged from 45.0 mm in March to zero in April, June, September, and November. More than 50 percent of the precipitation occurred in February and March. Summer precipitation was from local convective storms, whereas winter events were from regional frontal systems.

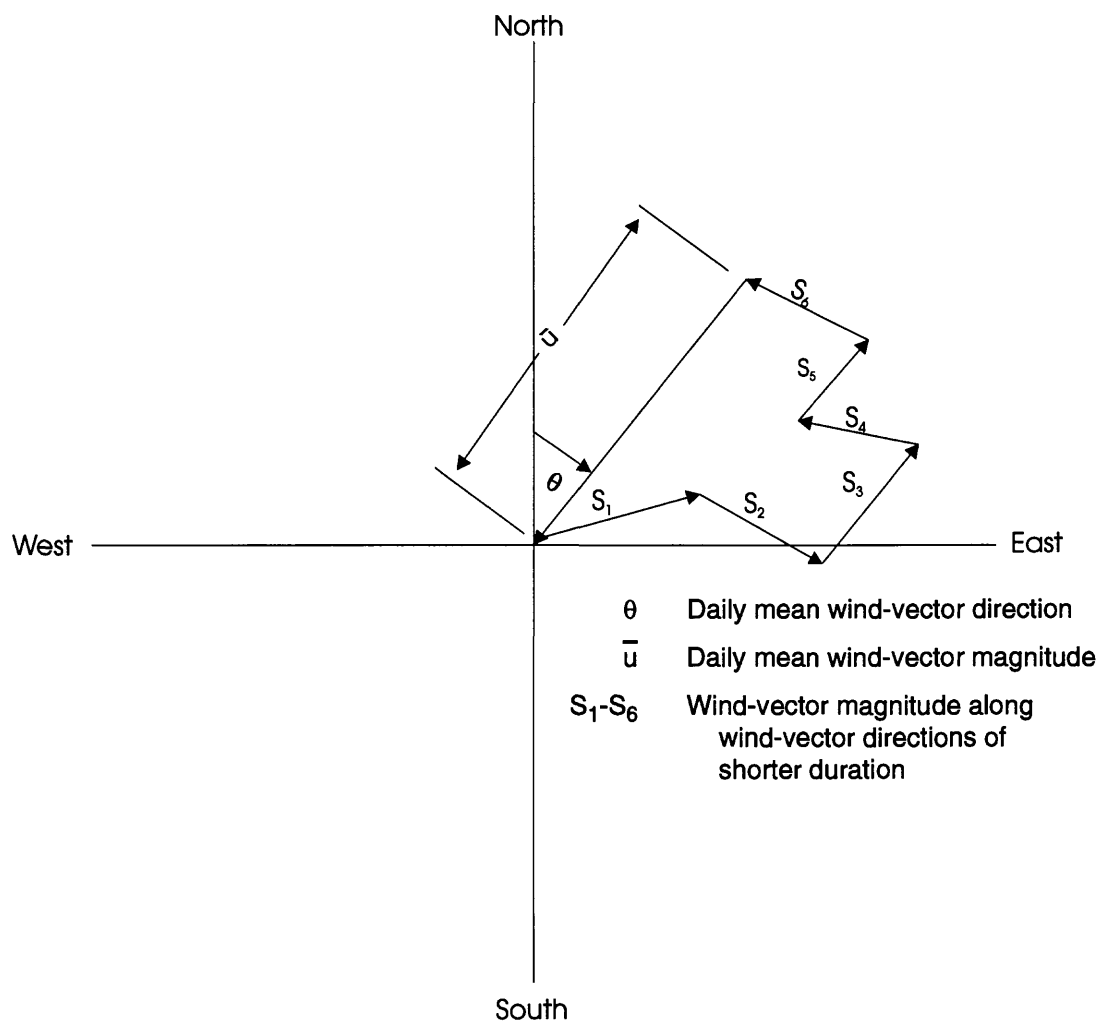


Figure 9. Computation of daily mean wind-vector direction and magnitude for a site near Beatty, Nev., 1992. (Modified from Campbell Scientific, Inc., 1989, figure 11-1.)

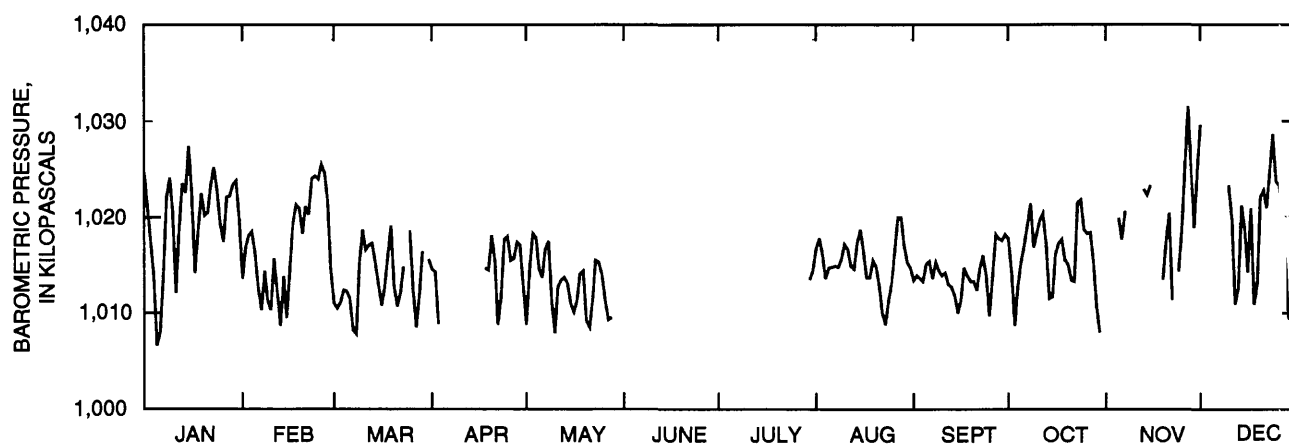


Figure 10. Daily mean barometric pressure for a site near Beatty, Nev., 1992, computed from 10-minute mean values.

Table 2. Daily total precipitation at study site near Beatty, Nev., for 1992.
All unlisted dates had no precipitation.

[Values are in millimeters]

| Month | Day | Total precipitation | Month | Day | Total precipitation |
|----------|-----|---------------------|----------|-----|---------------------|
| January | 3 | 2.5 | March | 27 | 1.3 |
| January | 4 | 1.5 | March | 29 | 5.1 |
| January | 5 | 9.9 | March | 30 | 24.9 |
| January | 6 | 1.8 | March | 31 | 5.1 |
| February | 6 | 12.4 | May | 5 | 2.3 |
| February | 7 | 8.1 | May | 6 | 4.1 |
| February | 10 | 4.8 | May | 8 | .8 |
| February | 11 | 2.8 | May | 29 | |
| February | 12 | 10.7 | July | 13 | |
| February | 13 | 3.8 | August | 12 | |
| February | 15 | 2.0 | October | 26 | 1.3 |
| February | 16 | .3 | October | 28 | 5.1 |
| March | 2 | 14.0 | December | 8 | 24.9 |
| March | 3 | .3 | December | 18 | 5.1 |
| March | 6 | .5 | December | 27 | 2.3 |
| March | 7 | 2.8 | December | 28 | 4.1 |
| March | 20 | 3.0 | December | 29 | .8 |
| March | 21 | 5.6 | | | |
| March | 22 | 1.3 | | | |
| March | 23 | 2.3 | | | |

Figure 11B compares monthly precipitation at the study site (altitude 847 m) and two National Oceanic and Atmospheric Administration (NOAA) sites. One of the these sites is designated Beatty 8N (lat. 37°00' N., long. 116°43' W.) and is 12.9 km north of Beatty at an altitude of 1,007 m (fig. 1); the other is Amargosa Farms (lat. 36°34' N., long. 116°28' W.), which is about 35 km southeast of the study site at an altitude of 747 m. Monthly values can differ considerably between sites.

Daily precipitation totals for the study site are shown in figure 11C and table 2. The largest storms occurred during the winter and spring months. Daily precipitation exceeded 10 mm during 4 days in 1992. Summer storms are usually of short duration but can be intense.

SOIL TEMPERATURE AND SOIL-HEAT FLUX

Heat generally is conducted downward into the soil during the day and upward at night. By convention, all energy fluxes from the atmosphere downward through the surface are considered positive, and all energy fluxes upward from the surface to the atmosphere are negative. The flux of heat into and out of

soils can be measured by means of soil-heat-flux plates and soil-temperature probes. A soil-heat-flux plate consists of a differential thermopile, which is connected between the top and bottom parts of the sensing plate, and the temperature drop is measured across a known thermal resistance.

Daily mean, daily maximum, and daily minimum values of soil temperature and soil-heat flux at an 8-cm depth are listed in table 4. Daily mean values of soil temperature and soil-heat flux computed from 20-minute mean values are shown in figures 12 and 13, respectively. Daily mean values of soil temperature ranged from 10.7°C on October 27 to 39.1°C on July 19. The daily mean soil-heat flux ranged from -13.4 W/m² on October 29 to 12.2 W/m² on June 27.

SUMMARY

Meteorological, soil-temperature, and soil-heat-flux data were collected adjacent to a low-level radioactive-waste facility near Beatty, Nev., for calendar year 1992 in support of an ongoing study to estimate the potential for downward movement of radionuclides into the unsaturated sediments beneath waste-burial trenches at the arid facility. This report provides daily

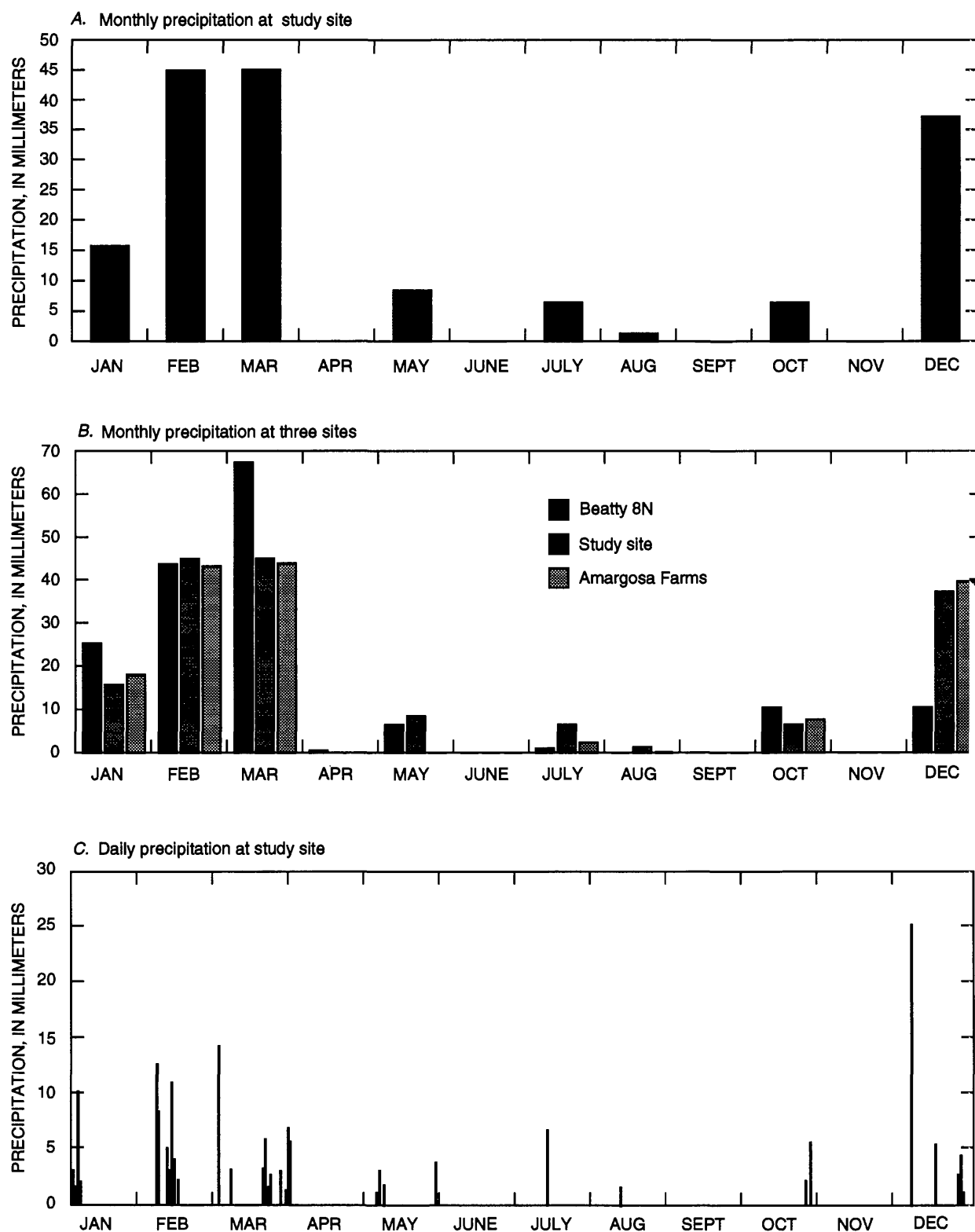


Figure 11. Precipitation at and near study site near Beatty, Nev., for 1992. (A) Monthly precipitation at study site. (B) Comparison of monthly precipitation at study site with monthly precipitation at two National Oceanographic and Atmospheric Administration (NOAA) sites (Beatty 8N and Amargosa Farms) near study site. (C) Daily precipitation at study site.

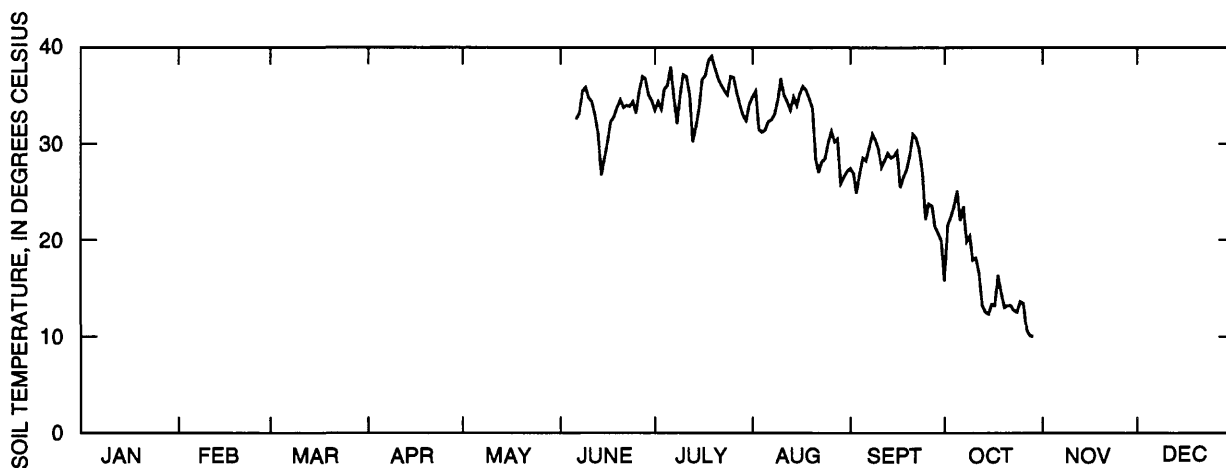


Figure 12. Daily mean soil temperature for a site near Beatty, Nev., 1992, computed from 20-minute mean values.

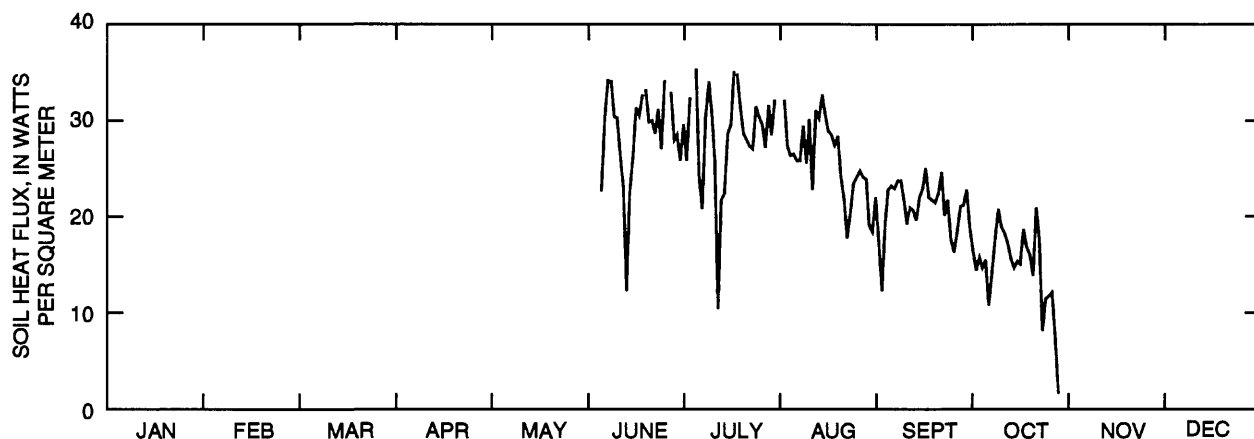


Figure 13. Daily mean soil-heat flux for a site near Beatty, Nev., 1992, computed from 20-minute mean values.

mean values of air temperature, relative humidity, vapor pressure, incident solar radiation, net radiation, windspeed, wind direction, barometric pressure, daily totals of precipitation, soil temperature, and soil-heat flux. A general description of instrumentation used and sensor installation is given.

The hourly minimum and 20-minute mean air temperature for the year was -8.6°C in December and the maximum was 42.3°C in August. Hourly and 20-minute mean values for relative humidity ranged from 2 percent to 100 percent. Hourly and 20-minute mean vapor pressures ranged from 0.07 kPa in October to 2.47 kPa in May. Daily maximum incident solar-radiation values ranged from 115 W/m^2 in February, to $1,021\text{ W/m}^2$ in May. Daily maximum net-radiation values ranged from 195 W/m^2 in October to 632 W/m^2 in July. Daily mean windspeed ranged from 0.6 m/s in December to 8.1 m/s in January. Daily

mean wind-vector direction determined from hourly and 20-minute mean data was predominantly from the northwest between January through March and October through December. The wind shifted during the summer months and was commonly from the southeast, southwest, and northwest. Barometric pressure ranged from 100.16 kPa to 103.38 kPa . Total measured precipitation for the year was 165.3 mm . Monthly precipitation ranged from 45.0 mm in March to zero in April, June, September, and November. Daily precipitation totaled more than 10 mm 4 days in 1992. Soil temperature and soil-heat flux were measured from June through October. Daily mean soil temperature at a depth from 2 to 6 cm ranged from 10.7°C on October 27 to 39.1°C on July 19. Daily mean soil-heat flux at a depth of 8 cm ranged from -13.4 W/m^2 on October 29 to 12.2 W/m^2 on June 27.

REFERENCES CITED

- Andraski, B.J., Prudic, D.E., and Nichols, W.D., 1995, Waste burial in arid environments—Application of information from a field laboratory in the Mojave Desert, Southern Nevada: U.S. Geological Survey Fact Sheet 179-95, 4 p.
- Campbell, G.S., 1977, Introduction to environmental biophysics: New York, Springer-Verlag, 159 p.
- Campbell Scientific, Inc., 1989a, 21X micrologger operators manual: Logan, Utah, Campbell Scientific, Inc., Revision 11/89, 300 p.
- 1989b, SBP270 barometric pressure sensor instruction manual: Logan, Utah, Campbell Scientific, Inc., Revision 4/89, 8 p.
- Fischer, J.M., 1992, Sediment properties and water movement through shallow unsaturated alluvium at an arid site for disposal of low-level radioactive waste near Beatty, Nye County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 92-4032, 48 p.
- Lowe, P.R., 1977, An approximating polynomial for the computation of saturation vapor pressure: *Journal of Applied Meteorology*, v. 16, no. 1, p. 100-103.
- Nichols, W.D., 1987, Geohydrology of the unsaturated zone at the burial site for low-level radioactive waste near Beatty, Nye County, Nevada: U.S. Geological Survey Water-Supply Paper 2312, 57 p.
- Rosenberg, N.J., Blad, B.L., and Verma, S.B., 1983, Microclimate, the biological environment (2d ed): New York, John Wiley, 495 p.
- Wood, J.L., and Andraski, B.J., 1992, Selected meteorological data for an arid site near Beatty, Nye County, Nevada, calendar year 1989: U.S. Geological Survey Open-File Report 92-484, 27 p.
- 1994, Selected meteorological data for an arid site near Beatty, Nye County, Nevada, calendar years 1990 and 1991: U.S. Geological Survey Open-File Report 94-489, 49 p.
- Wood, J.L., and Fischer, J.M., 1991, Selected meteorological data for an arid site near Beatty, Nye County, Nevada, calendar year 1986: U.S. Geological Survey Open-File Report 91-189, 27 p.
- 1992, Selected meteorological data for an arid site near Beatty, Nye County, Nevada, calendar year 1987: U.S. Geological Survey Open-File Report 92-50, 27 p.
- Wood, J.L., Hill, K.J., and Andraski, B.J., 1992, Selected meteorological data for an arid site near Beatty, Nye County, Nevada, calendar year 1988: U.S. Geological Survey Open-File Report 92-61, 27 p.

BASIC DATA

This section contains tables 3-5, which summarize selected meteorological and micrometeorological data collected at the study site for 1992. Table 3 lists daily mean, maximum, and minimum values of air temperature, incident solar radiation, relative humidity, vapor pressure, windspeed, and wind-vector magnitude and direction. Table 4 lists daily mean, maximum, and minimum values of net radiation, soil temperature, and soil-heat flux for June through October 1992. Table 5 lists daily mean, maximum, and minimum values of barometric pressure for 1992.

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values

[Symbols and abbreviations: --, data not available; max, maximum; min, minimum; std. dev., standard deviation; °az, degrees Azimuth]

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | | | Relative humidity (percent) | | | | Vapor pressure (kilopascals) | | | | Windspeed (meters per second) | | | | Wind vector | | | |
|----------|------------------|-------------------------------|-----------|---------|-----|--|-------|------|-----------|-----------------------------|----------|---------|---------|------------------------------|-----|---------|---------|-------------------------------|-----|---------|---------|-------------------------------|-----------|-----------|--|
| | | Mean | | Max/min | | Mean | | Max | | Mean | | Max/min | | Mean | | Max/min | | Mean | | Max/min | | Magnitude (meters per second) | | Direction | |
| | | Mean | Max/min | Max | Min | Mean | Max | Mean | Max/min | Max | Min | Mean | Max/min | Max | Min | Mean | Max/min | Max | Min | Mean | Max/min | °az | Std. dev. | | |
| 92/01/01 | 24 | 4.4 | 12.7/-1.8 | 130 | 524 | 68 | 92/33 | 0.53 | 0.59/0.48 | 1.7 | 3.0/0.9 | 1.5 | 256 | 30 | | | | | | | | | | | |
| 92/01/02 | 24 | 2.8 | 8.7/-3.7 | 84 | 428 | 62 | 88/32 | 0.44 | 0.51/0.36 | 1.5 | 2.2/0.7 | 1.2 | 280 | 36 | | | | | | | | | | | |
| 92/01/03 | 24 | 3.1 | 5.3/ 1.3 | 32 | 196 | 82 | 99/65 | 0.63 | 0.75/0.48 | 2.0 | 4.5/0.9 | 1.8 | 285 | 24 | | | | | | | | | | | |
| 92/01/04 | 24 | 5.0 | 7.0/ 3.0 | 52 | 284 | 92 | 99/79 | 0.80 | 0.87/0.75 | 1.6 | 3.3/0.7 | 1.5 | 242 | 22 | | | | | | | | | | | |
| 92/01/05 | 24 | 6.0 | 8.3/ 3.6 | 34 | 162 | 89 | 96/83 | 0.84 | 1.01/0.72 | 4.5 | 6.7/1.4 | 4.3 | 239 | 16 | | | | | | | | | | | |
| 92/01/06 | 24 | 4.7 | 9.3/ 0.4 | 119 | 519 | 81 | 98/50 | 0.68 | 0.76/0.56 | 1.8 | 4.0/0.9 | 1.5 | 271 | 33 | | | | | | | | | | | |
| 92/01/07 | 24 | 2.9 | 7.6/-1.2 | 73 | 300 | 75 | 94/58 | 0.55 | 0.65/0.48 | 2.9 | 7.4/0.9 | 2.5 | 303 | 28 | | | | | | | | | | | |
| 92/01/08 | 24 | 4.6 | 8.5/ 0.6 | 136 | 544 | 47 | 60/36 | 0.39 | 0.47/0.33 | 6.1 | 8.9/1.4 | 5.8 | 301 | 22 | | | | | | | | | | | |
| 92/01/09 | 24 | 4.2 | 14.0/-1.9 | 136 | 544 | 50 | 76/18 | 0.38 | 0.50/0.28 | 1.6 | 3.0/0.8 | 1.1 | 290 | 49 | | | | | | | | | | | |
| 92/01/10 | 24 | 5.2 | 16.3/-2.4 | 135 | 553 | 58 | 85/20 | 0.46 | 0.57/0.38 | 1.7 | 2.4/1.0 | 1.3 | 246 | 37 | | | | | | | | | | | |
| 92/01/11 | 24 | 4.4 | 11.4/-1.5 | 130 | 547 | 55 | 89/24 | 0.43 | 0.54/0.30 | 6.0 | 13.6/1.2 | 5.8 | 314 | 19 | | | | | | | | | | | |
| 92/01/12 | 24 | 5.2 | 8.9/ 2.9 | 141 | 574 | 36 | 44/25 | 0.32 | 0.35/0.29 | 8.1 | 13.6/3.8 | 7.9 | 339 | 13 | | | | | | | | | | | |
| 92/01/13 | 24 | 4.0 | 10.9/-3.0 | 136 | 559 | 42 | 66/18 | 0.32 | 0.40/0.24 | 2.2 | 5.4/1.2 | 1.7 | 212 | 40 | | | | | | | | | | | |
| 92/01/14 | 24 | 8.0 | 13.8/ 2.4 | 140 | 559 | 39 | 48/28 | 0.41 | 0.50/0.32 | 4.4 | 6.7/1.7 | 3.9 | 301 | 27 | | | | | | | | | | | |
| 92/01/15 | 24 | 6.8 | 13.7/-0.2 | 143 | 565 | 44 | 73/24 | 0.41 | 0.46/0.37 | 2.8 | 6.8/1.2 | 2.3 | 257 | 35 | | | | | | | | | | | |
| 92/01/16 | 24 | 4.5 | 13.9/-2.0 | 143 | 571 | 55 | 82/23 | 0.42 | 0.46/0.36 | 1.7 | 2.3/0.8 | 1.4 | 339 | 30 | | | | | | | | | | | |
| 92/01/17 | 24 | 7.0 | 14.7/-1.5 | 112 | 435 | 48 | 80/23 | 0.44 | 0.46/0.39 | 3.3 | 7.5/1.0 | 3.0 | 287 | 27 | | | | | | | | | | | |
| 92/01/18 | 24 | 8.9 | 15.2/ 0.7 | 139 | 575 | 32 | 50/17 | 0.35 | 0.46/0.26 | 4.9 | 7.7/1.1 | 4.5 | 286 | 28 | | | | | | | | | | | |
| 92/01/19 | 24 | 5.2 | 14.4/-2.3 | 151 | 591 | 35 | 57/15 | 0.27 | 0.31/0.22 | 2.1 | 5.8/1.0 | 1.7 | 257 | 38 | | | | | | | | | | | |
| 92/01/20 | 24 | 4.9 | 15.2/-2.5 | 151 | 588 | 36 | 58/13 | 0.27 | 0.35/0.21 | 1.8 | 2.8/1.1 | 1.5 | 233 | 33 | | | | | | | | | | | |
| 92/01/21 | 24 | 6.9 | 16.7/-2.3 | 154 | 596 | 39 | 66/17 | 0.34 | 0.38/0.30 | 3.4 | 7.0/1.3 | 3.0 | 278 | 24 | | | | | | | | | | | |
| 92/01/22 | 24 | 6.6 | 18.1/-1.0 | 158 | 610 | 37 | 61/10 | 0.31 | 0.38/0.20 | 2.3 | 5.2/1.1 | 2.0 | 285 | 29 | | | | | | | | | | | |
| 92/01/23 | 24 | 6.2 | 17.8/-2.8 | 157 | 604 | 34 | 58/10 | 0.27 | 0.33/0.21 | 1.9 | 2.9/1.1 | 1.7 | 234 | 27 | | | | | | | | | | | |
| 92/01/24 | 24 | 6.9 | 18.9/-2.1 | 157 | 615 | 33 | 56/10 | 0.28 | 0.33/0.22 | 1.9 | 2.6/1.0 | 1.7 | 248 | 26 | | | | | | | | | | | |
| 92/01/25 | 24 | 6.4 | 15.7/-1.0 | 101 | 449 | 38 | 54/15 | 0.34 | 0.42/0.27 | 1.5 | 2.9/0.8 | 1.3 | 268 | 34 | | | | | | | | | | | |
| 92/01/26 | 24 | 8.0 | 15.7/-0.3 | 106 | 432 | 34 | 55/16 | 0.34 | 0.40/0.29 | 2.2 | 5.6/0.6 | 1.9 | 287 | 32 | | | | | | | | | | | |
| 92/01/27 | 24 | 9.2 | 20.3/-0.3 | 161 | 617 | 33 | 58/12 | 0.34 | 0.40/0.30 | 2.2 | 4.9/1.2 | 1.9 | 337 | 29 | | | | | | | | | | | |
| 92/01/28 | 24 | 8.7 | 15.0/ 1.5 | 76 | 306 | 38 | 52/20 | 0.41 | 0.55/0.33 | 4.0 | 8.7/0.8 | 3.8 | 300 | 23 | | | | | | | | | | | |
| 92/01/29 | 24 | 12.5 | 19.4/ 4.6 | 153 | 591 | 32 | 45/17 | 0.44 | 0.57/0.31 | 5.2 | 9.0/1.7 | 4.9 | 304 | 21 | | | | | | | | | | | |
| 92/01/30 | 24 | 9.1 | 21.3/ 0.7 | 167 | 638 | 29 | 49/9 | 0.28 | 0.34/0.22 | 2.0 | 3.0/1.0 | 1.7 | 260 | 30 | | | | | | | | | | | |
| 92/01/31 | 24 | 8.3 | 19.1/-0.8 | 170 | 644 | 29 | 48/12 | 0.28 | 0.32/0.26 | 2.4 | 4.0/0.8 | 2.2 | 271 | 21 | | | | | | | | | | | |
| 92/02/01 | 24 | 8.2 | 15.8/ 1.7 | 101 | 409 | 35 | 50/21 | 0.36 | 0.39/0.31 | 2.4 | 4.3/1.0 | 2.3 | 264 | 20 | | | | | | | | | | | |
| 92/02/02 | 24 | 11.6 | 17.9/ 4.1 | 151 | 655 | 31 | 49/20 | 0.41 | 0.46/0.35 | 6.3 | 8.8/1.4 | 6.2 | 313 | 13 | | | | | | | | | | | |
| 92/02/03 | 24 | 10.8 | 16.3/ 6.2 | 177 | 668 | 21 | 32/11 | 0.26 | 0.32/0.21 | 6.0 | 9.2/1.7 | 5.8 | 303 | 18 | | | | | | | | | | | |
| 92/02/04 | 24 | 8.1 | 16.6/-1.9 | 150 | 614 | 38 | 59/22 | 0.39 | 0.46/0.31 | 2.1 | 3.2/1.2 | 1.8 | 250 | 26 | | | | | | | | | | | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | | | Relative humidity (percent) | | | | Vapor pressure (kilopascals) | | | | Windspeed (meters per second) | | | | Wind vector | | | |
|----------|------------------|-------------------------------|-----------|---------|-----|--|--------|------|-----------|-----------------------------|---------|---------|---------|------------------------------|---------|---------|---------|-------------------------------|---------|---------|-----------|-------------------------------|--|-----------|--|
| | | Mean | | Max/min | | Mean | | Max | | Mean | | Max/min | | Mean | | Max/min | | Mean | | Max/min | | Magnitude (meters per second) | | Direction | |
| | | Mean | Max/min | Mean | Max | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | Mean | Max/min | Mean | Max/min | Mean | Max/min | °az | Std. dev. | | | | |
| 92/02/05 | 24 | 9.5 | 16.2/ 24 | 112 | 500 | 52 | 82/31 | 0.60 | 0.93/0.44 | 2.1 | 3.0/1.1 | 1.9 | 236 | 24 | | | | | | | | | | | |
| 92/02/06 | 24 | 8.7 | 9.7/ 7.7 | 24 | 115 | 91 | 99/81 | 1.02 | 1.08/0.88 | 1.9 | 2.6/1.2 | 1.7 | 292 | 26 | | | | | | | | | | | |
| 92/02/07 | 24 | 9.2 | 11.4/ 7.8 | 56 | 319 | 90 | 97/78 | 1.05 | 1.10/1.01 | 1.8 | 3.6/0.7 | 1.6 | 220 | 27 | | | | | | | | | | | |
| 92/02/08 | 24 | 10.1 | 12.7/ 7.9 | 77 | 469 | 87 | 98/70 | 1.06 | 1.15/1.02 | 1.0 | 1.3/0.6 | 0.7 | 287 | 42 | | | | | | | | | | | |
| 92/02/09 | 24 | 10.2 | 14.0/ 6.5 | 125 | 500 | 78 | 100/55 | 0.95 | 1.11/0.88 | 2.9 | 6.0/0.9 | 2.7 | 317 | 21 | | | | | | | | | | | |
| 92/02/10 | 24 | 9.7 | 13.2/ 7.5 | 116 | 513 | 77 | 96/53 | 0.90 | 1.02/0.78 | 4.4 | 7.1/2.0 | 4.3 | 256 | 14 | | | | | | | | | | | |
| 92/02/11 | 24 | 9.3 | 12.7/ 6.9 | 85 | 371 | 84 | 97/67 | 0.97 | 1.02/0.93 | 3.7 | 5.4/1.8 | 3.6 | 240 | 13 | | | | | | | | | | | |
| 92/02/12 | 24 | 8.6 | 10.3/ 7.2 | 22 | 137 | 91 | 97/81 | 1.01 | 1.06/0.95 | 3.5 | 5.6/1.2 | 3.4 | 239 | 18 | | | | | | | | | | | |
| 92/02/13 | 24 | 7.6 | 10.0/ 6.3 | 61 | 277 | 93 | 100/81 | 0.97 | 1.04/0.91 | 2.1 | 3.9/1.2 | 1.9 | 304 | 23 | | | | | | | | | | | |
| 92/02/14 | 24 | 7.9 | 11.7/ 5.1 | 141 | 685 | 78 | 96/57 | 0.82 | 0.87/0.74 | 3.1 | 4.7/1.2 | 3.0 | 262 | 15 | | | | | | | | | | | |
| 92/02/15 | 24 | 6.4 | 8.3/ 2.0 | 33 | 228 | 85 | 97/76 | 0.81 | 0.90/0.69 | 3.1 | 6.1/1.3 | 2.9 | 264 | 20 | | | | | | | | | | | |
| 92/02/16 | 24 | 5.3 | 10.9/ 0.5 | 191 | 693 | 78 | 98/54 | 0.69 | 0.83/0.58 | 2.2 | 4.0/1.1 | 1.9 | 224 | 27 | | | | | | | | | | | |
| 92/02/17 | 24 | 6.6 | 12.6/ 1.1 | 173 | 707 | 76 | 95/48 | 0.72 | 0.83/0.62 | 1.9 | 2.7/0.9 | 1.7 | 267 | 24 | | | | | | | | | | | |
| 92/02/18 | 24 | 7.5 | 14.2/ 1.4 | 143 | 689 | 75 | 94/48 | 0.76 | 0.89/0.64 | 1.9 | 2.5/0.9 | 1.8 | 254 | 21 | | | | | | | | | | | |
| 92/02/19 | 24 | 9.5 | 15.6/ 3.1 | 177 | 673 | 71 | 91/44 | 0.81 | 0.99/0.69 | 1.8 | 2.5/0.8 | 1.5 | 252 | 29 | | | | | | | | | | | |
| 92/02/20 | 24 | 10.5 | 17.0/ 5.6 | 162 | 623 | 72 | 91/47 | 0.88 | 1.00/0.80 | 2.2 | 3.0/1.0 | 2.0 | 261 | 20 | | | | | | | | | | | |
| 92/02/21 | 24 | 11.7 | 19.0/ 4.8 | 171 | 627 | 73 | 92/46 | 0.98 | 1.20/0.78 | 1.8 | 2.8/0.8 | 1.6 | 244 | 27 | | | | | | | | | | | |
| 92/02/22 | 24 | 13.9 | 22.4/ 6.9 | 196 | 704 | 51 | 92/16 | 0.73 | 1.09/0.31 | 4.2 | 9.7/1.7 | 4.0 | 316 | 19 | | | | | | | | | | | |
| 92/02/23 | 24 | 13.1 | 19.2/ 8.7 | 209 | 742 | 28 | 44/15 | 0.39 | 0.51/0.28 | 6.1 | 9.3/3.1 | 5.9 | 338 | 13 | | | | | | | | | | | |
| 92/02/24 | 24 | 14.4 | 22.2/ 8.6 | 209 | 738 | 22 | 34/9 | 0.34 | 0.48/0.24 | 4.9 | 8.7/2.2 | 4.6 | 316 | 19 | | | | | | | | | | | |
| 92/02/25 | 24 | 16.6 | 22.5/11.6 | 206 | 725 | 31 | 43/20 | 0.57 | 0.64/0.47 | 5.3 | 7.8/2.2 | 5.0 | 244 | 20 | | | | | | | | | | | |
| 92/02/26 | 24 | 12.7 | 21.4/ 3.9 | 211 | 742 | 45 | 79/18 | 0.60 | 0.70/0.47 | 1.9 | 3.1/0.8 | 1.4 | 234 | 39 | | | | | | | | | | | |
| 92/02/27 | 24 | 13.1 | 22.6/ 4.1 | 215 | 751 | 41 | 73/16 | 0.53 | 0.70/0.43 | 2.0 | 3.1/0.7 | 1.7 | 230 | 30 | | | | | | | | | | | |
| 92/02/28 | 24 | 13.3 | 22.5/ 3.8 | 212 | 755 | 40 | 68/15 | 0.53 | 0.69/0.40 | 2.0 | 2.9/0.8 | 1.8 | 257 | 23 | | | | | | | | | | | |
| 92/02/29 | 24 | 13.8 | 20.9/ 5.7 | 181 | 747 | 37 | 61/18 | 0.52 | 0.62/0.43 | 3.1 | 5.6/1.2 | 2.9 | 224 | 16 | | | | | | | | | | | |
| 92/03/01 | 24 | 14.0 | 17.7/10.6 | 147 | 748 | 35 | 45/25 | 0.55 | 0.70/0.44 | 3.6 | 5.6/1.9 | 3.3 | 143 | 20 | | | | | | | | | | | |
| 92/03/02 | 24 | 9.9 | 13.9/ 7.9 | 40 | 201 | 81 | 97/39 | 0.97 | 1.12/0.62 | 3.0 | 5.3/1.1 | 2.6 | 136 | 29 | | | | | | | | | | | |
| 92/03/03 | 24 | 9.6 | 13.1/ 7.1 | 116 | 433 | 84 | 99/61 | 0.99 | 1.05/0.89 | 2.2 | 4.1/1.3 | 2.1 | 165 | 19 | | | | | | | | | | | |
| 92/03/04 | 24 | 10.8 | 18.5/ 3.6 | 220 | 764 | 69 | 98/34 | 0.84 | 0.96/0.70 | 2.2 | 4.9/1.0 | 1.9 | 249 | 31 | | | | | | | | | | | |
| 92/03/05 | 24 | 10.7 | 15.6/ 4.6 | 189 | 774 | 68 | 92/48 | 0.85 | 0.93/0.77 | 2.6 | 4.6/1.9 | 2.4 | 215 | 22 | | | | | | | | | | | |
| 92/03/06 | 24 | 10.5 | 14.1/ 4.7 | 157 | 540 | 67 | 90/45 | 0.83 | 0.98/0.72 | 3.1 | 5.0/1.7 | 2.8 | 160 | 22 | | | | | | | | | | | |
| 92/03/07 | 24 | 7.0 | 9.1/ 4.1 | 46 | 170 | 86 | 94/73 | 0.86 | 0.96/0.76 | 1.9 | 5.2/0.6 | 1.6 | 248 | 34 | | | | | | | | | | | |
| 92/03/08 | 24 | 9.6 | 15.0/ 6.2 | 104 | 601 | 77 | 95/43 | 0.89 | 1.01/0.74 | 2.8 | 6.4/0.9 | 2.4 | 206 | 28 | | | | | | | | | | | |
| 92/03/09 | 24 | 12.5 | 18.2/ 5.6 | 165 | 797 | 52 | 90/31 | 0.71 | 0.89/0.60 | 3.9 | 7.3/1.2 | 3.6 | 283 | 24 | | | | | | | | | | | |
| 92/03/10 | 24 | 12.2 | 21.1/ 3.0 | 233 | 797 | 52 | 90/18 | 0.65 | 0.81/0.46 | 2.9 | 6.0/1.1 | 2.8 | 266 | 19 | | | | | | | | | | | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | | |
|----------|------------------|-------------------------------|-----------|---------|---------|--|-------|-----------------------------|-----------|------------------------------|---------|-------------------------------|---------|-------------------------------|-----|-----------|
| | | Mean | | Max/min | | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | Magnitude (meters per second) | °az | Std. dev. |
| | | Mean | Max/min | Max/min | Max/min | | | | | | | | | | | |
| 92/03/11 | 24 | 15.5 | 23.1/ 7.9 | 236 | 802 | 31 | 62/13 | 0.50 | 0.68/0.37 | 4.7 | 7.6/1.3 | 4.4 | 301 | 21 | | |
| 92/03/12 | 24 | 13.8 | 22.9/ 4.9 | 240 | 808 | 42 | 69/16 | 0.59 | 0.78/0.45 | 2.0 | 2.9/1.0 | 1.6 | 280 | 31 | | |
| 92/03/13 | 24 | 14.5 | 22.5/ 6.6 | 240 | 817 | 46 | 73/22 | 0.69 | 0.80/0.60 | 2.8 | 4.7/1.0 | 2.5 | 237 | 22 | | |
| 92/03/14 | 24 | 14.1 | 20.7/ 6.7 | 198 | 672 | 43 | 76/18 | 0.64 | 0.82/0.42 | 3.1 | 6.4/1.4 | 2.8 | 220 | 23 | | |
| 92/03/15 | 24 | 13.2 | 19.1/ 6.5 | 243 | 832 | 37 | 56/23 | 0.53 | 0.64/0.45 | 2.9 | 4.2/1.5 | 2.5 | 144 | 28 | | |
| 92/03/16 | 24 | 12.2 | 17.8/ 7.3 | 247 | 832 | 48 | 64/25 | 0.65 | 0.74/0.51 | 3.9 | 9.1/1.5 | 3.6 | 206 | 22 | | |
| 92/03/17 | 24 | 11.3 | 17.7/ 4.9 | 241 | 852 | 43 | 70/22 | 0.53 | 0.66/0.42 | 3.7 | 5.7/1.8 | 3.5 | 311 | 18 | | |
| 92/03/18 | 24 | 12.2 | 17.6/ 6.8 | 238 | 849 | 38 | 63/21 | 0.50 | 0.63/0.41 | 2.3 | 4.1/0.9 | 1.8 | 206 | 35 | | |
| 92/03/19 | 24 | 11.9 | 18.9/ 4.5 | 199 | 790 | 43 | 65/18 | 0.54 | 0.69/0.38 | 2.2 | 3.7/0.7 | 2.0 | 237 | 24 | | |
| 92/03/20 | 24 | 11.9 | 18.3/ 7.0 | 122 | 573 | 49 | 89/23 | 0.64 | 0.97/0.46 | 2.9 | 5.7/1.4 | 2.5 | 261 | 28 | | |
| 92/03/21 | 24 | 10.0 | 13.7/ 7.4 | 117 | 533 | 83 | 95/62 | 1.01 | 1.07/0.96 | 2.0 | 4.2/1.0 | 1.8 | 191 | 25 | | |
| 92/03/22 | 24 | 11.5 | 16.4/ 8.6 | 177 | 678 | 70 | 90/40 | 0.92 | 1.06/0.73 | 4.3 | 6.2/0.8 | 4.0 | 170 | 19 | | |
| 92/03/23 | 24 | 9.8 | 14.4/ 6.5 | 186 | 724 | 74 | 93/48 | 0.88 | 0.96/0.78 | 1.9 | 3.5/0.8 | 1.5 | 243 | 33 | | |
| 92/03/24 | 24 | 10.0 | 17.7/ 3.6 | 161 | 680 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/25 | 24 | 11.2 | 17.0/ 6.1 | 166 | 671 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/26 | 24 | 11.8 | 16.9/ 7.3 | 163 | 685 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/27 | 24 | 12.7 | 15.3/10.2 | 159 | 688 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/28 | 24 | 14.0 | 19.9/ 8.1 | 190 | 700 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/29 | 24 | 16.0 | 22.6/ 9.3 | 259 | 892 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/30 | 24 | 13.7 | 21.1/10.2 | 155 | 703 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/03/31 | 24 | 13.3 | 17.5/ 9.9 | 145 | 678 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/04/01 | 24 | 21.1 | 24.0/ 9.9 | 158 | 714 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/04/02 | 24 | 18.3 | 28.4/ 6.9 | 279 | 901 | -- | --- | -- | --- | -- | -- | -- | -- | -- | | |
| 92/04/03 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/04 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/05 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/06 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/07 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/08 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/09 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/10 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/11 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/12 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/13 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 92/04/14 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | |
|----------|------------------|-------------------------------|-----------|---------|---------|--|-----|-----------------------------|---------|------------------------------|-----------|-------------------------------|---------|-------------------------------|-------------------------|
| | | Mean | | Max/min | | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | Magnitude (meters per second) | Direction °az Std. dev. |
| | | Mean | Max/min | Max/min | Max/min | | | | | | | | | | |
| 92/04/15 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/04/16 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/04/17 | 24 | 19.3 | 31.4/ 6.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/04/18 | 24 | 20.7 | 31.7/12.1 | 321 | 979 | 29 | 979 | 29 | 43/17 | 0.73 | 1.20/0.49 | 6.4 | 9.0/2.4 | 6.1 | 340 17 |
| 92/04/19 | 24 | 18.5 | 30.7/ 9.4 | 325 | 983 | 28 | 983 | 28 | 39/15 | 0.62 | 1.15/0.44 | 4.2 | 6.6/1.7 | 3.7 | 303 24 |
| 92/04/20 | 24 | 17.8 | 29.7/ 6.4 | 311 | 904 | 33 | 904 | 33 | 57/14 | 0.74 | 1.55/0.50 | 2.0 | 3.2/0.7 | 1.5 | 254 35 |
| 92/04/21 | 24 | 19.2 | 31.1/ 9.7 | 233 | 852 | 43 | 852 | 43 | 67/21 | 0.97 | 1.95/0.67 | 2.5 | 4.1/1.2 | 2.1 | 239 30 |
| 92/04/22 | 24 | 19.2 | 29.6/ 9.8 | 274 | 915 | 39 | 915 | 39 | 71/19 | 0.90 | 1.75/0.68 | 2.5 | 4.2/1.3 | 2.1 | 232 32 |
| 92/04/23 | 24 | 20.9 | 31.5/12.5 | 298 | 945 | 24 | 945 | 24 | 35/10 | 0.64 | 1.72/0.42 | 3.4 | 7.4/1.5 | 3.0 | 258 27 |
| 92/04/24 | 24 | 17.5 | 30.0/ 8.4 | 286 | 902 | 26 | 902 | 26 | 48/9 | 0.65 | 1.29/0.50 | 1.9 | 2.8/0.9 | 1.6 | 246 32 |
| 92/04/25 | 24 | 15.6 | 22.1/10.2 | 312 | 968 | 25 | 968 | 25 | 52/8 | 0.70 | 1.29/0.44 | 2.2 | 3.2/1.0 | 1.9 | 264 26 |
| 92/04/26 | 24 | 19.2 | 26.6/13.6 | 299 | 936 | 23 | 936 | 23 | 42/9 | 0.77 | 1.48/0.61 | 2.4 | 3.7/0.9 | 2.2 | 210 26 |
| 92/04/27 | 24 | 18.0 | 27.9/13.6 | 323 | 969 | 22 | 969 | 22 | 45/5 | 0.78 | 1.48/0.37 | 2.5 | 4.5/1.2 | 2.2 | 267 25 |
| 92/04/28 | 24 | 17.3 | 25.2/14.4 | 318 | 962 | 19 | 962 | 19 | 34/4 | 0.62 | 1.21/0.32 | 2.3 | 3.5/1.3 | 2.0 | 225 30 |
| 92/04/29 | 24 | 20.3 | 30.7/13.4 | 249 | 820 | 18 | 820 | 18 | 33/6 | 0.56 | 0.87/0.40 | 3.3 | 6.9/1.2 | 3.1 | 214 20 |
| 92/04/30 | 24 | 25.0 | 31.8/18.7 | 326 | 957 | 24 | 957 | 24 | 46/5 | 0.75 | 1.17/0.30 | 4.2 | 6.5/1.5 | 3.9 | 165 20 |
| 92/05/01 | 24 | 22.9 | 29.8/16.6 | 330 | 988 | 23 | 988 | 23 | 44/9 | 0.61 | 0.87/0.36 | 4.9 | 7.3/1.4 | 4.6 | 285 19 |
| 92/05/02 | 24 | 23.8 | 31.9/13.9 | 325 | 923 | 23 | 923 | 23 | 43/9 | 0.66 | 0.87/0.45 | 2.3 | 6.3/1.0 | 1.8 | 231 37 |
| 92/05/03 | 24 | 20.1 | 29.7/13.1 | 295 | 923 | 21 | 923 | 21 | 41/6 | 0.58 | 0.72/0.38 | 2.1 | 3.7/0.9 | 1.7 | 236 33 |
| 92/05/04 | 24 | 26.2 | 33.3/16.0 | 229 | 797 | 20 | 797 | 20 | 30/11 | 0.70 | 0.97/0.52 | 2.8 | 5.2/0.9 | 2.2 | 168 36 |
| 92/05/05 | 24 | 24.6 | 29.7/18.9 | 188 | 538 | 41 | 538 | 41 | 72/24 | 1.25 | 1.59/0.91 | 3.2 | 7.4/1.7 | 2.6 | 157 35 |
| 92/05/06 | 24 | 21.5 | 29.1/15.4 | 212 | 995 | 60 | 995 | 60 | 90/34 | 1.47 | 1.87/1.11 | 2.4 | 4.5/1.0 | 1.9 | 206 36 |
| 92/05/07 | 24 | 23.7 | 32.5/13.5 | 322 | 962 | 42 | 962 | 42 | 82/15 | 1.12 | 1.46/0.77 | 2.2 | 3.0/1.3 | 1.6 | 231 37 |
| 92/05/08 | 24 | 22.8 | 31.5/17.4 | 332 | 957 | 39 | 957 | 39 | 74/20 | 1.57 | 1.78/0.97 | 3.7 | 6.7/1.3 | 2.9 | 217 34 |
| 92/05/09 | 24 | 24.5 | 31.9/16.7 | 332 | 993 | 27 | 993 | 27 | 75/8 | 0.78 | 1.56/0.39 | 6.1 | 8.4/1.9 | 5.7 | 304 18 |
| 92/05/10 | 24 | 24.7 | 33.4/14.1 | 331 | 993 | 18 | 993 | 18 | 26/9 | 0.57 | 1.03/0.38 | 2.8 | 5.4/1.2 | 2.4 | 237 29 |
| 92/05/11 | 24 | 24.8 | 33.4/16.2 | 323 | 954 | 35 | 954 | 35 | 56/20 | 1.24 | 2.32/0.58 | 3.0 | 4.5/0.9 | 2.5 | 191 30 |
| 92/05/12 | 24 | 25.8 | 33.5/19.1 | 323 | 904 | 36 | 904 | 36 | 57/18 | 1.30 | 2.47/0.74 | 3.4 | 5.7/1.5 | 3.1 | 173 23 |
| 92/05/13 | 24 | 24.7 | 33.2/14.5 | 326 | 957 | 25 | 957 | 25 | 47/10 | 0.76 | 1.17/0.49 | 2.8 | 4.2/1.2 | 2.3 | 209 32 |
| 92/05/14 | 24 | 22.1 | 32.6/14.0 | 326 | 990 | 19 | 990 | 19 | 31/8 | 0.62 | 1.22/0.40 | 2.8 | 4.4/1.5 | 2.5 | 238 26 |
| 92/05/15 | 24 | 23.1 | 33.1/14.0 | 340 | 973 | 22 | 973 | 22 | 36/13 | 0.76 | 1.64/0.40 | 2.6 | 3.5/1.7 | 2.3 | 234 24 |
| 92/05/16 | 24 | 22.5 | 33.4/14.7 | 329 | 979 | 21 | 979 | 21 | 34/10 | 0.75 | 1.59/0.46 | 2.6 | 4.6/1.2 | 2.3 | 228 26 |
| 92/05/17 | 24 | 23.1 | 33.2/14.5 | 342 | 987 | 17 | 987 | 17 | 28/7 | 0.58 | 0.86/0.38 | 3.5 | 5.7/1.6 | 3.1 | 209 22 |
| 92/05/18 | 24 | 24.5 | 33.5/14.8 | 335 | 959 | 18 | 959 | 18 | 31/8 | 0.63 | 0.96/0.42 | 3.3 | 5.9/1.3 | 3.0 | 243 24 |
| 92/05/19 | 24 | 24.9 | 33.2/17.7 | 255 | 828 | 19 | 828 | 19 | 35/6 | 0.59 | 0.74/0.28 | 4.5 | 7.8/1.4 | 4.2 | 185 23 |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | | | Relative humidity (percent) | | | | Vapor pressure (kilopascals) | | | | Windspeed (meters per second) | | | | Wind vector | | | |
|----------|------------------|-------------------------------|-----------|---------|------|--|-------|------|-----------|-----------------------------|---------|---------|---------|------------------------------|---------|---------|---------|-------------------------------|---------|---------|-----------|-------------------------------|-----------|-----------|--|
| | | Mean | | Max/min | | Mean | | Max | | Mean | | Max/min | | Mean | | Max/min | | Mean | | Max/min | | Magnitude (meters per second) | | Direction | |
| | | Mean | Max/min | Max/min | Max | Mean | Max | Mean | Max/min | Max/min | Max/min | Mean | Max/min | Max/min | Max/min | Mean | Max/min | Max/min | Max/min | °az | Std. dev. | °az | Std. dev. | | |
| 92/05/20 | 24 | 22.5 | 29.5/11.9 | 358 | 1016 | 22 | 41/8 | 0.57 | 0.87/0.33 | 3.0 | 5.1/1.1 | 2.5 | 207 | 31 | | | | | | | | | | | |
| 92/05/21 | 24 | 24.6 | 31.8/18.0 | 304 | 1006 | 25 | 49/14 | 0.76 | 1.09/0.44 | 4.9 | 7.6/1.6 | 4.4 | 216 | 25 | | | | | | | | | | | |
| 92/05/22 | 24 | 24.4 | 32.1/15.0 | 283 | 993 | 33 | 59/17 | 0.93 | 1.12/0.63 | 3.0 | 6.0/1.1 | 2.5 | 193 | 33 | | | | | | | | | | | |
| 92/05/23 | 24 | 24.6 | 32.6/13.4 | 302 | 862 | 29 | 52/17 | 0.89 | 1.14/0.66 | 2.2 | 3.6/0.8 | 1.7 | 254 | 35 | | | | | | | | | | | |
| 92/05/24 | 24 | 28.1 | 33.8/19.4 | 301 | 1021 | 28 | 40/17 | 1.04 | 1.32/0.77 | 3.5 | 5.6/1.5 | 3.1 | 171 | 27 | | | | | | | | | | | |
| 92/05/25 | 24 | 28.0 | 34.5/21.1 | 339 | 961 | 29 | 47/14 | 1.17 | 1.53/0.85 | 2.7 | 3.9/1.4 | 2.3 | 183 | 30 | | | | | | | | | | | |
| 92/05/26 | 24 | 27.5 | 33.6/20.0 | 316 | 946 | 26 | 44/12 | 1.10 | 1.31/0.82 | 3.3 | 4.9/1.6 | 2.8 | 172 | 28 | | | | | | | | | | | |
| 92/05/27 | 24 | 27.9 | 33.3/23.5 | 324 | 940 | 28 | 42/14 | 1.03 | 1.22/0.75 | 3.0 | 4.9/1.4 | 2.6 | 197 | 28 | | | | | | | | | | | |
| 92/05/28 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/05/29 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/05/30 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/05/31 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/06/01 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/06/02 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/06/03 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/06/04 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/06/05 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | |
| 92/06/06 | 72 | 25.9 | 31.6/17.7 | -- | -- | 20 | 26/13 | 0.62 | 0.76/0.51 | 2.9 | 4.8/0.6 | -- | -- | -- | | | | | | | | | | | |
| 92/06/07 | 72 | 24.9 | 32.5/13.8 | -- | -- | 21 | 37/11 | 0.60 | 0.71/0.50 | 1.9 | 4.4/0.5 | -- | -- | -- | | | | | | | | | | | |
| 92/06/08 | 72 | 28.0 | 34.6/18.7 | -- | -- | 20 | 33/11 | 0.70 | 0.90/0.51 | 2.7 | 4.2/1.1 | -- | -- | -- | | | | | | | | | | | |
| 92/06/09 | 72 | 29.0 | 35.6/22.8 | -- | -- | 18 | 31/6 | 0.64 | 0.93/0.35 | 3.1 | 4.9/1.5 | -- | -- | -- | | | | | | | | | | | |
| 92/06/10 | 72 | 28.8 | 35.0/20.4 | -- | -- | 13 | 24/5 | 0.44 | 0.63/0.25 | 3.8 | 5.6/0.9 | -- | -- | -- | | | | | | | | | | | |
| 92/06/11 | 72 | 27.8 | 34.3/17.0 | -- | -- | 18 | 32/12 | 0.62 | 0.78/0.50 | 3.4 | 5.4/1.1 | -- | -- | -- | | | | | | | | | | | |
| 92/06/12 | 72 | 24.5 | 30.1/18.2 | -- | -- | 14 | 28/2 | 0.37 | 0.66/0.09 | 3.6 | 6.1/1.1 | -- | -- | -- | | | | | | | | | | | |
| 92/06/13 | 72 | 21.3 | 27.1/14.4 | -- | -- | 14 | 21/7 | 0.31 | 0.41/0.24 | 3.6 | 6.4/0.6 | -- | -- | -- | | | | | | | | | | | |
| 92/06/14 | 72 | 18.4 | 24.1/14.6 | -- | -- | 24 | 37/12 | 0.48 | 0.64/0.33 | 4.0 | 8.1/1.2 | -- | -- | -- | | | | | | | | | | | |
| 92/06/15 | 72 | 18.1 | 26.4/ 7.6 | -- | -- | 29 | 47/12 | 0.53 | 0.72/0.39 | 3.5 | 7.5/0.6 | -- | -- | -- | | | | | | | | | | | |
| 92/06/16 | 72 | 21.1 | 28.8/12.8 | -- | -- | 26 | 48/9 | 0.55 | 0.73/0.36 | 3.1 | 5.4/0.7 | -- | -- | -- | | | | | | | | | | | |
| 92/06/17 | 72 | 23.9 | 32.2/11.8 | -- | -- | 17 | 33/7 | 0.43 | 0.60/0.30 | 1.8 | 4.1/0.6 | -- | -- | -- | | | | | | | | | | | |
| 92/06/18 | 72 | 25.0 | 34.3/13.6 | -- | -- | 12 | 23/2 | 0.31 | 0.57/0.09 | 2.4 | 4.2/0.7 | -- | -- | -- | | | | | | | | | | | |
| 92/06/19 | 72 | 25.8 | 34.4/13.7 | -- | -- | 13 | 23/6 | 0.37 | 0.50/0.21 | 1.7 | 3.4/0.5 | -- | -- | -- | | | | | | | | | | | |
| 92/06/20 | 72 | 27.1 | 36.3/13.8 | -- | -- | 10 | 20/2 | 0.29 | 0.43/0.14 | 1.9 | 4.0/0.8 | -- | -- | -- | | | | | | | | | | | |
| 92/06/21 | 72 | 27.5 | 37.7/15.4 | -- | -- | 9 | 19/2 | 0.26 | 0.40/0.14 | 2.2 | 4.7/0.5 | -- | -- | -- | | | | | | | | | | | |
| 92/06/22 | 72 | 28.4 | 37.8/15.1 | -- | -- | 10 | 19/4 | 0.37 | 0.54/0.20 | 2.4 | 5.3/0.8 | -- | -- | -- | | | | | | | | | | | |
| 92/06/23 | 72 | 28.3 | 36.0/19.5 | -- | -- | 16 | 28/8 | 0.57 | 0.75/0.43 | 2.2 | 4.8/0.5 | -- | -- | -- | | | | | | | | | | | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | |
|----------|------------------|-------------------------------|-----------|--|-----|-----------------------------|---------|------------------------------|-----------|-------------------------------|---------|-------------------------------|---------------|
| | | Mean | | Max/min | | Mean | | Max/min | | Mean | | Magnitude (meters per second) | Direction °az |
| | | Mean | Max/min | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | | |
| 92/06/24 | 72 | 27.7 | 35.5/17.1 | -- | -- | 19 | 35/6 | 0.61 | 0.82/0.34 | 2.7 | 5.2/0.7 | -- | -- |
| 92/06/25 | 72 | 26.4 | 33.6/16.1 | -- | -- | 19 | 33/11 | 0.58 | 0.70/0.49 | 1.8 | 4.4/0.5 | -- | -- |
| 92/06/26 | 72 | 28.0 | 35.7/16.8 | -- | -- | 19 | 32/11 | 0.66 | 0.87/0.53 | 2.0 | 4.2/0.5 | -- | -- |
| 92/06/27 | 72 | 30.0 | 38.9/18.0 | -- | -- | 16 | 31/7 | 0.57 | 0.73/0.43 | 2.3 | 4.3/0.8 | -- | -- |
| 92/06/28 | 72 | 30.4 | 38.1/18.8 | -- | -- | 19 | 29/10 | 0.77 | 1.04/0.48 | 3.5 | 7.3/0.6 | -- | -- |
| 92/06/29 | 72 | 26.6 | 32.9/21.0 | -- | -- | 24 | 43/11 | 0.74 | 1.04/0.51 | 3.4 | 5.8/1.2 | -- | -- |
| 92/06/30 | 72 | 24.3 | 30.6/17.7 | -- | -- | 27 | 41/11 | 0.74 | 0.87/0.37 | 2.5 | 4.7/0.7 | -- | -- |
| 92/07/01 | 72 | 23.7 | 30.2/17.5 | -- | -- | 26 | 43/13 | 0.68 | 0.89/0.50 | 2.8 | 4.7/0.6 | -- | -- |
| 92/07/02 | 72 | 25.5 | 33.5/13.6 | -- | -- | 17 | 32/9 | 0.49 | 0.63/0.43 | 1.8 | 3.7/0.6 | -- | -- |
| 92/07/03 | 72 | 27.7 | 36.7/16.6 | -- | -- | 14 | 25/7 | 0.47 | 0.53/0.40 | 2.7 | 5.3/0.6 | -- | -- |
| 92/07/04 | 72 | 30.3 | 38.4/22.9 | -- | -- | 10 | 22/2 | 0.36 | 0.64/0.11 | 3.3 | 5.2/1.0 | -- | -- |
| 92/07/05 | 72 | 31.2 | 39.7/20.0 | -- | -- | 12 | 19/6 | 0.49 | 0.61/0.33 | 2.9 | 5.2/0.5 | -- | -- |
| 92/07/06 | 72 | 33.0 | 39.9/25.1 | -- | -- | 14 | 20/9 | 0.65 | 0.75/0.57 | 3.7 | 6.3/0.5 | -- | -- |
| 92/07/07 | 72 | 29.8 | 34.5/25.2 | -- | -- | 25 | 46/16 | 0.95 | 1.44/0.74 | 2.8 | 5.7/0.5 | -- | -- |
| 92/07/08 | 72 | 26.6 | 30.9/22.5 | -- | -- | 45 | 59/34 | 1.51 | 1.73/1.33 | 3.2 | 5.6/0.5 | -- | -- |
| 92/07/09 | 72 | 28.1 | 34.0/20.1 | -- | -- | 43 | 69/27 | 1.48 | 1.74/1.22 | 2.0 | 4.3/0.6 | -- | -- |
| 92/07/10 | 72 | 30.2 | 36.4/21.7 | -- | -- | 33 | 50/21 | 1.28 | 1.48/1.14 | 2.1 | 3.9/0.5 | -- | -- |
| 92/07/11 | 72 | 28.7 | 34.4/23.7 | -- | -- | 32 | 42/22 | 1.21 | 1.34/1.08 | 3.6 | 4.7/1.2 | -- | -- |
| 92/07/12 | 72 | 26.3 | 31.0/22.4 | -- | -- | 42 | 53/29 | 1.37 | 1.53/1.19 | 2.4 | 6.5/0.7 | -- | -- |
| 92/07/13 | 72 | 24.8 | 31.2/18.6 | -- | -- | 53 | 77/32 | 1.54 | 1.98/1.30 | 2.1 | 6.9/0.6 | -- | -- |
| 92/07/14 | 72 | 27.3 | 35.1/16.5 | -- | -- | 40 | 78/15 | 1.18 | 1.54/0.79 | 1.8 | 3.4/0.4 | -- | -- |
| 92/07/15 | 72 | 29.3 | 36.7/19.4 | -- | -- | 29 | 50/14 | 1.02 | 1.31/0.80 | 1.9 | 4.4/0.7 | -- | -- |
| 92/07/16 | 72 | 31.1 | 39.5/21.0 | -- | -- | 23 | 48/10 | 0.90 | 1.16/0.64 | 1.8 | 4.4/0.6 | -- | -- |
| 92/07/17 | 72 | 32.5 | 41.5/20.6 | -- | -- | 18 | 39/6 | 0.71 | 1.00/0.49 | 2.0 | 4.8/0.4 | -- | -- |
| 92/07/18 | 72 | 32.3 | 40.1/21.5 | -- | -- | 19 | 40/8 | 0.78 | 1.06/0.49 | 1.6 | 3.7/0.4 | -- | -- |
| 92/07/19 | 72 | 33.9 | 41.1/24.0 | -- | -- | 12 | 20/4 | 0.56 | 0.77/0.31 | 3.2 | 6.8/0.4 | -- | -- |
| 92/07/20 | 72 | 31.6 | 39.5/20.3 | -- | -- | 13 | 24/6 | 0.54 | 0.66/0.41 | 2.5 | 4.5/0.5 | -- | -- |
| 92/07/21 | 72 | 29.8 | 38.2/18.6 | -- | -- | 11 | 22/4 | 0.41 | 0.57/0.24 | 2.3 | 4.5/0.5 | -- | -- |
| 92/07/22 | 72 | 29.8 | 36.5/23.9 | -- | -- | 14 | 23/7 | 0.53 | 0.68/0.35 | 3.6 | 6.0/0.8 | -- | -- |
| 92/07/23 | 72 | 27.7 | 35.2/15.9 | -- | -- | 14 | 26/7 | 0.47 | 0.58/0.35 | 2.3 | 3.9/0.4 | -- | -- |
| 92/07/24 | 72 | 27.8 | 36.0/17.0 | -- | -- | 17 | 34/7 | 0.58 | 1.06/0.38 | 2.7 | 4.6/0.7 | -- | -- |
| 92/07/25 | 72 | 29.3 | 36.6/19.3 | -- | -- | 22 | 43/10 | 0.79 | 1.15/0.43 | 2.1 | 4.0/0.6 | -- | -- |
| 92/07/26 | 72 | 29.2 | 38.0/18.1 | -- | -- | 16 | 22/10 | 0.60 | 0.82/0.42 | 2.1 | 3.8/0.4 | -- | -- |
| 92/07/27 | 72 | 29.9 | 39.1/19.0 | -- | -- | 17 | 24/8 | 0.55 | 0.61/0.50 | 1.9 | 2.9/0.7 | -- | -- |
| 92/07/28 | 72 | 31.6 | 41.3/18.8 | 312 | 954 | 12 | 24/6 | 0.41 | 0.49/0.30 | 2.3 | 4.0/1.1 | 1.2 | 242 |
| | | | | | | | | | | | | | 39 |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | |
|----------|------------------|-------------------------------|-----------|-----|------|--|-------|-----------------------------|-----------|------------------------------|---------|-------------------------------|-------------------------------|-------------|-----------|
| | | Mean | Max/min | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | Mean | Max/min | Magnitude (meters per second) | Direction | |
| | | | | | | | | | | | | | | °az | Std. dev. |
| 92/07/29 | 72 | 31.0 | 39.2/20.5 | 341 | 982 | 11 | 21/4 | 0.44 | 0.51/0.32 | 1.9 | 3.8/0.6 | 1.1 | 246 | 51 | |
| 92/07/30 | 72 | 32.1 | 38.3/22.2 | 314 | 995 | 16 | 24/9 | 0.75 | 1.05/0.43 | 2.9 | 5.6/1.1 | 2.3 | 239 | 34 | |
| 92/07/31 | 72 | 33.1 | 40.1/23.6 | 299 | 982 | 23 | 34/15 | 1.08 | 1.26/0.89 | 2.6 | 6.7/0.7 | 1.8 | 236 | 46 | |
| 92/08/01 | 72 | 33.5 | 41.6/23.6 | 314 | 937 | 24 | 39/15 | 1.17 | 1.25/1.10 | 2.0 | 3.7/0.5 | 1.2 | 261 | 48 | |
| 92/08/02 | 72 | 33.9 | 42.0/23.1 | 325 | 951 | 20 | 38/10 | 0.96 | 1.22/0.76 | 2.0 | 4.4/0.4 | 1.3 | 230 | 49 | |
| 92/08/03 | 72 | 31.6 | 37.3/26.8 | 327 | 960 | 16 | 28/6 | 0.78 | 1.07/0.51 | 2.4 | 4.1/0.7 | 1.6 | 282 | 44 | |
| 92/08/04 | 72 | 30.3 | 36.7/22.6 | 282 | 927 | 29 | 45/17 | 1.30 | 1.66/1.02 | 3.2 | 4.6/1.5 | 2.4 | 349 | 38 | |
| 92/08/05 | 72 | 29.7 | 37.5/22.6 | 313 | 992 | 32 | 44/17 | 1.34 | 1.70/1.03 | 3.6 | 6.6/0.7 | 2.9 | 296 | 38 | |
| 92/08/06 | 72 | 30.2 | 37.9/21.3 | 295 | 931 | 30 | 51/12 | 1.13 | 1.52/0.69 | 2.1 | 3.9/0.4 | 1.3 | 257 | 46 | |
| 92/08/07 | 72 | 29.6 | 38.6/18.1 | 320 | 947 | 16 | 32/5 | 0.62 | 0.85/0.24 | 2.6 | 4.6/0.7 | 1.8 | 295 | 42 | |
| 92/08/08 | 72 | 30.4 | 39.2/20.1 | 330 | 964 | 14 | 26/4 | 0.50 | 0.77/0.27 | 2.6 | 4.7/1.0 | 1.8 | 270 | 40 | |
| 92/08/09 | 72 | 31.5 | 40.7/20.4 | 322 | 960 | 15 | 21/9 | 0.61 | 0.77/0.43 | 1.9 | 3.8/1.0 | 1.2 | 219 | 46 | |
| 92/08/10 | 72 | 32.9 | 42.3/24.0 | 249 | 915 | 17 | 24/10 | 0.76 | 0.96/0.57 | 1.4 | 2.8/0.4 | 0.8 | 239 | 45 | |
| 92/08/11 | 72 | 33.2 | 41.0/22.1 | 313 | 932 | 26 | 53/12 | 1.25 | 2.28/0.82 | 2.1 | 7.8/0.6 | 1.3 | 226 | 47 | |
| 92/08/12 | 72 | 32.6 | 40.0/24.2 | 282 | 917 | 29 | 62/13 | 1.30 | 1.71/0.96 | 2.5 | 4.8/0.9 | 1.8 | 244 | 42 | |
| 92/08/13 | 72 | 32.3 | 39.6/24.7 | 310 | 928 | 28 | 43/16 | 1.29 | 1.42/1.17 | 2.6 | 8.9/0.4 | 1.9 | 215 | 45 | |
| 92/08/14 | 72 | 33.5 | 41.1/24.0 | 293 | 936 | 29 | 45/18 | 1.32 | 1.45/1.11 | 1.7 | 3.8/0.4 | 0.9 | 242 | 48 | |
| 92/08/15 | 72 | 33.1 | 40.7/23.2 | 310 | 938 | 24 | 38/13 | 1.17 | 1.32/0.98 | 1.7 | 4.4/0.4 | 0.9 | 237 | 53 | |
| 92/08/16 | 72 | 32.6 | 41.5/22.8 | 305 | 919 | 22 | 37/12 | 1.06 | 1.22/0.87 | 1.7 | 4.1/0.4 | 1.0 | 267 | 53 | |
| 92/08/17 | 72 | 32.6 | 41.9/22.0 | 313 | 943 | 18 | 34/7 | 0.79 | 0.99/0.55 | 2.0 | 4.2/0.4 | 1.3 | 242 | 43 | |
| 92/08/18 | 72 | 33.2 | 42.1/21.8 | 314 | 946 | 14 | 25/5 | 0.60 | 0.80/0.38 | 1.9 | 3.4/0.4 | 1.2 | 240 | 47 | |
| 92/08/19 | 72 | 33.4 | 40.8/25.2 | 293 | 953 | 14 | 23/6 | 0.65 | 0.74/0.49 | 2.1 | 4.1/0.4 | 1.4 | 246 | 42 | |
| 92/08/20 | 72 | 31.4 | 39.5/19.1 | 311 | 939 | 11 | 21/3 | 0.53 | 0.73/0.26 | 2.1 | 4.2/0.4 | 1.5 | 269 | 44 | |
| 92/08/21 | 72 | 28.3 | 34.7/22.3 | 313 | 951 | 13 | 23/6 | 0.56 | 0.74/0.42 | 3.2 | 5.8/0.7 | 2.5 | 284 | 39 | |
| 92/08/22 | 72 | 25.7 | 33.1/17.5 | 315 | 963 | 13 | 28/4 | 0.45 | 0.79/0.18 | 2.5 | 4.1/1.0 | 1.7 | 291 | 44 | |
| 92/08/23 | 72 | 25.3 | 34.6/12.3 | 318 | 971 | 7 | 13/4 | 0.21 | 0.26/0.17 | 3.3 | 7.0/0.8 | 2.8 | 205 | 38 | |
| 92/08/24 | 72 | 26.5 | 34.6/15.9 | 310 | 951 | 12 | 16/5 | 0.41 | 0.64/0.22 | 1.8 | 3.3/0.4 | 1.1 | 276 | 49 | |
| 92/08/25 | 72 | 27.1 | 36.2/16.8 | 301 | 928 | 17 | 28/8 | 0.56 | 0.79/0.42 | 1.9 | 3.6/0.4 | 1.2 | 256 | 44 | |
| 92/08/26 | 72 | 27.7 | 37.5/16.1 | 301 | 930 | 14 | 24/7 | 0.45 | 0.53/0.38 | 1.6 | 3.6/0.4 | 1.0 | 225 | 48 | |
| 92/08/27 | 72 | 28.3 | 37.0/17.6 | 304 | 937 | 13 | 21/4 | 0.43 | 0.54/0.26 | 1.6 | 3.4/0.4 | 1.0 | 212 | 45 | |
| 92/08/28 | 72 | 28.0 | 36.6/17.4 | 292 | 889 | 16 | 23/10 | 0.58 | 0.69/0.48 | 1.9 | 4.0/0.4 | 1.2 | 254 | 43 | |
| 92/08/29 | 72 | 24.9 | 31.5/15.6 | 297 | 920 | 18 | 27/7 | 0.63 | 0.76/0.45 | 2.7 | 5.7/0.7 | 1.9 | 260 | 45 | |
| 92/08/30 | 72 | 23.2 | 32.8/10.8 | 305 | 951 | 18 | 37/3 | 0.51 | 0.91/0.15 | 2.3 | 5.1/0.4 | 1.6 | 275 | 42 | |
| 92/08/31 | 72 | 26.0 | 33.6/15.2 | 299 | 924 | 16 | 22/12 | 0.45 | 0.61/0.26 | 2.1 | 4.3/0.5 | 1.4 | 244 | 41 | |
| 92/09/01 | 72 | 26.8 | 33.6/18.8 | 283 | 979 | 17 | 27/12 | 0.55 | 0.67/0.48 | 1.9 | 3.7/0.4 | 1.2 | 257 | 44 | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | |
|----------|------------------|-------------------------------|-----------|---------|-----|--|---------|-----------------------------|-----------|------------------------------|---------|-------------------------------|-----------|-------------------------------|-----------|
| | | Mean | | Max/min | | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | Magnitude (meters per second) | Direction |
| | | Mean | Max/min | Max | Min | Mean | Max/min | Mean | Max/min | Mean | Max/min | °az | Std. dev. | | |
| 92/09/02 | 72 | 25.0 | 32.0/17.5 | 194 | 789 | 16 | 23/10 | 0.55 | 0.63/0.47 | 2.3 | 4.3/0.7 | 1.7 | 256 | 38 | |
| 92/09/03 | 72 | 24.2 | 30.8/17.1 | 168 | 754 | 20 | 27/13 | 0.61 | 0.72/0.51 | 3.1 | 6.4/0.9 | 2.5 | 240 | 34 | |
| 92/09/04 | 72 | 25.0 | 32.9/14.3 | 294 | 920 | 26 | 43/14 | 0.73 | 0.99/0.58 | 4.8 | 6.9/2.3 | 3.7 | 297 | 36 | |
| 92/09/05 | 72 | 25.4 | 34.7/15.9 | 268 | 921 | 18 | 34/8 | 0.53 | 0.65/0.38 | 1.8 | 4.5/0.4 | 1.2 | 252 | 45 | |
| 92/09/06 | 72 | 25.4 | 34.5/16.4 | 287 | 909 | 15 | 26/5 | 0.42 | 0.54/0.28 | 1.8 | 3.4/0.4 | 1.2 | 240 | 43 | |
| 92/09/07 | 72 | 25.9 | 35.8/14.5 | 282 | 897 | 15 | 22/9 | 0.46 | 0.57/0.37 | 1.7 | 3.7/0.4 | 1.0 | 221 | 47 | |
| 92/09/08 | 72 | 26.7 | 37.3/14.2 | 282 | 897 | 16 | 27/7 | 0.49 | 0.61/0.43 | 1.7 | 3.4/0.4 | 1.2 | 225 | 43 | |
| 92/09/09 | 72 | 27.1 | 36.1/17.2 | 281 | 898 | 13 | 26/5 | 0.39 | 0.48/0.29 | 1.7 | 3.7/0.4 | 1.1 | 235 | 42 | |
| 92/09/10 | 72 | 27.0 | 35.4/17.5 | 265 | 859 | 12 | 20/5 | 0.38 | 0.44/0.29 | 2.0 | 4.5/0.4 | 1.4 | 283 | 38 | |
| 92/09/11 | 72 | 25.6 | 33.1/15.9 | 208 | 995 | 14 | 20/8 | 0.50 | 0.63/0.36 | 2.5 | 4.4/0.8 | 2.0 | 260 | 33 | |
| 92/09/12 | 72 | 24.2 | 34.2/13.6 | 232 | 914 | 16 | 27/7 | 0.48 | 0.69/0.34 | 1.7 | 3.1/0.7 | 1.1 | 252 | 43 | |
| 92/09/13 | 72 | 24.6 | 35.1/12.5 | 276 | 886 | 14 | 24/6 | 0.38 | 0.40/0.30 | 1.5 | 3.5/0.4 | 0.9 | 240 | 49 | |
| 92/09/14 | 72 | 25.0 | 34.3/12.5 | 278 | 889 | 15 | 25/4 | 0.40 | 0.57/0.21 | 2.3 | 4.1/0.9 | 1.7 | 252 | 38 | |
| 92/09/15 | 72 | 26.1 | 34.8/16.7 | 268 | 862 | 22 | 32/15 | 0.70 | 0.94/0.39 | 2.3 | 4.6/0.4 | 1.6 | 274 | 41 | |
| 92/09/16 | 72 | 26.7 | 35.6/15.5 | 262 | 860 | 25 | 43/12 | 0.79 | 1.14/0.57 | 2.3 | 5.2/0.5 | 1.7 | 249 | 38 | |
| 92/09/17 | 72 | 25.8 | 31.4/20.6 | 259 | 845 | 24 | 38/14 | 0.79 | 1.13/0.59 | 2.0 | 7.0/0.5 | 1.3 | 229 | 50 | |
| 92/09/18 | 72 | 25.0 | 33.2/17.5 | 250 | 814 | 33 | 50/18 | 1.03 | 1.21/0.81 | 4.5 | 8.2/1.6 | 3.6 | 288 | 35 | |
| 92/09/19 | 72 | 25.5 | 35.7/14.3 | 258 | 845 | 27 | 46/15 | 0.79 | 0.94/0.63 | 2.5 | 5.0/0.4 | 1.9 | 217 | 39 | |
| 92/09/20 | 72 | 26.5 | 36.7/16.6 | 255 | 836 | 21 | 37/10 | 0.63 | 0.71/0.55 | 1.9 | 4.2/0.9 | 1.4 | 228 | 37 | |
| 92/09/21 | 72 | 27.6 | 36.9/17.0 | 255 | 839 | 16 | 27/8 | 0.51 | 0.57/0.46 | 1.4 | 2.9/0.4 | 0.8 | 237 | 51 | |
| 92/09/22 | 72 | 28.0 | 36.5/19.4 | 245 | 813 | 22 | 32/17 | 0.84 | 1.20/0.48 | 2.0 | 4.0/0.6 | 1.5 | 219 | 36 | |
| 92/09/23 | 72 | 26.5 | 35.5/15.3 | 186 | 813 | 24 | 42/10 | 0.85 | 1.09/0.56 | 2.4 | 5.1/0.4 | 1.9 | 278 | 38 | |
| 92/09/24 | 72 | 25.2 | 32.8/17.0 | 253 | 838 | 20 | 44/6 | 0.61 | 1.02/0.34 | 2.4 | 6.3/0.6 | 1.7 | 240 | 41 | |
| 92/09/25 | 72 | 22.1 | 32.6/11.9 | 254 | 846 | 13 | 23/5 | 0.37 | 0.50/0.23 | 4.0 | 6.5/0.8 | 3.3 | 287 | 39 | |
| 92/09/26 | 72 | 23.3 | 35.3/ 9.9 | 256 | 845 | 12 | 21/5 | 0.28 | 0.34/0.25 | 1.4 | 2.3/0.5 | 0.9 | 223 | 48 | |
| 92/09/27 | 72 | 25.2 | 36.9/11.4 | 251 | 832 | 11 | 20/3 | 0.26 | 0.30/0.20 | 1.6 | 3.5/0.4 | 1.1 | 207 | 40 | |
| 92/09/28 | 72 | 26.6 | 36.8/15.3 | 248 | 830 | 10 | 19/3 | 0.26 | 0.31/0.17 | 1.7 | 3.3/0.4 | 1.1 | 291 | 41 | |
| 92/09/29 | 72 | 26.5 | 36.6/17.6 | 230 | 798 | 13 | 21/7 | 0.43 | 0.56/0.28 | 2.0 | 4.2/0.4 | 1.5 | 211 | 36 | |
| 92/09/30 | 72 | 25.9 | 35.3/15.1 | 224 | 800 | 18 | 28/10 | 0.59 | 0.71/0.48 | 2.1 | 4.5/0.4 | 1.5 | 237 | 39 | |
| 92/10/01 | 72 | 24.5 | 31.2/17.8 | 227 | 788 | 17 | 31/6 | 0.50 | 0.71/0.25 | 3.2 | 6.7/1.4 | 2.7 | 234 | 32 | |
| 92/10/02 | 72 | 21.3 | 28.0/14.8 | 242 | 819 | 16 | 29/6 | 0.47 | 0.73/0.26 | 4.3 | 7.0/0.9 | 3.6 | 256 | 32 | |
| 92/10/03 | 72 | 21.4 | 28.9/15.4 | 244 | 830 | 20 | 29/11 | 0.49 | 0.62/0.40 | 4.2 | 6.1/1.2 | 3.5 | 273 | 34 | |
| 92/10/04 | 72 | 20.2 | 29.6/10.1 | 239 | 817 | 23 | 32/14 | 0.57 | 0.62/0.49 | 4.2 | 6.6/1.0 | 3.6 | 285 | 34 | |
| 92/10/05 | 72 | 23.1 | 30.8/15.2 | 217 | 758 | 21 | 36/11 | 0.46 | 0.50/0.42 | 1.3 | 2.3/0.4 | 0.8 | 234 | 49 | |
| 92/10/06 | 72 | 17.4 | 28.3/ 6.7 | 233 | 788 | 14 | 27/3 | 0.37 | 0.56/0.15 | 3.4 | 6.7/0.7 | 2.6 | 301 | 42 | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | | | | | |
|----------|------------------|-------------------------------|-----------|--|-----|-----------------------------|---------|------------------------------|-----------|-------------------------------|---------|-------------|-----|-------------------------------|-----------|-----|-----------|
| | | Mean | | Max/min | | Mean | | Max/min | | Mean | | Max/min | | Magnitude (meters per second) | Direction | °az | Std. dev. |
| | | Mean | Max/min | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | | | | | | |
| 92/10/07 | 72 | 18.5 | 29.3/ 8.1 | 232 | 812 | 7 | 16/2 | 0.12 | 0.17/0.07 | 1.3 | 2.1/0.4 | 0.8 | 230 | 48 | | | |
| 92/10/08 | 72 | 22.1 | 32.8/ 8.8 | 212 | 798 | 6 | 11/2 | 0.11 | 0.18/0.07 | 1.5 | 3.0/0.5 | 1.1 | 210 | 39 | | | |
| 92/10/09 | 72 | 23.0 | 31.6/14.5 | 225 | 775 | 10 | 17/6 | 0.27 | 0.40/0.16 | 2.4 | 4.7/0.5 | 1.8 | 264 | 39 | | | |
| 92/10/10 | 72 | 22.5 | 33.8/11.7 | 222 | 771 | 17 | 25/10 | 0.45 | 0.50/0.39 | 2.1 | 5.4/0.5 | 1.4 | 260 | 49 | | | |
| 92/10/11 | 72 | 22.2 | 34.3/10.4 | 219 | 759 | 17 | 28/8 | 0.41 | 0.45/0.36 | 1.7 | 3.3/0.5 | 1.1 | 231 | 44 | | | |
| 92/10/12 | 72 | 21.2 | 32.0/11.1 | 218 | 756 | 14 | 27/4 | 0.31 | 0.39/0.23 | 1.5 | 2.6/0.5 | 1.0 | 312 | 40 | | | |
| 92/10/13 | 72 | 19.9 | 29.3/10.6 | 215 | 752 | 15 | 23/7 | 0.34 | 0.40/0.29 | 1.6 | 2.6/0.4 | 1.1 | 311 | 38 | | | |
| 92/10/14 | 72 | 19.0 | 28.3/ 8.0 | 210 | 743 | 21 | 30/12 | 0.48 | 0.61/0.35 | 1.8 | 3.1/0.4 | 1.3 | 266 | 38 | | | |
| 92/10/15 | 72 | 19.0 | 28.6/11.8 | 203 | 720 | 27 | 40/14 | 0.56 | 0.67/0.43 | 1.6 | 2.9/0.4 | 1.1 | 272 | 42 | | | |
| 92/10/16 | 72 | 18.9 | 28.9/ 7.7 | 191 | 673 | 25 | 39/13 | 0.52 | 0.60/0.41 | 1.6 | 2.9/0.4 | 1.1 | 302 | 40 | | | |
| 92/10/17 | 72 | 20.3 | 29.5/12.1 | 194 | 726 | 20 | 34/11 | 0.41 | 0.47/0.34 | 1.6 | 2.8/0.4 | 1.1 | 300 | 37 | | | |
| 92/10/18 | 72 | 19.8 | 30.0/10.0 | 201 | 722 | 20 | 28/12 | 0.45 | 0.53/0.39 | 1.8 | 2.7/0.6 | 1.3 | 233 | 38 | | | |
| 92/10/19 | 72 | 19.8 | 30.0/ 7.3 | 195 | 699 | 22 | 33/11 | 0.48 | 0.55/0.42 | 1.5 | 3.6/0.4 | 1.2 | 211 | 42 | | | |
| 92/10/20 | 72 | 19.5 | 25.1/13.8 | 197 | 704 | 22 | 35/12 | 0.49 | 0.59/0.35 | 2.2 | 5.2/0.6 | 1.1 | 253 | 39 | | | |
| 92/10/21 | 72 | 20.8 | 27.6/14.1 | 126 | 636 | 30 | 39/21 | 0.67 | 0.79/0.50 | 2.2 | 5.2/0.6 | 1.7 | 273 | 36 | | | |
| 92/10/22 | 72 | 20.6 | 29.4/11.7 | 190 | 679 | 30 | 42/21 | 0.72 | 0.81/0.60 | 1.6 | 3.5/0.4 | 1.0 | 265 | 49 | | | |
| 92/10/23 | 72 | 17.0 | 22.5/10.6 | 188 | 674 | 32 | 60/18 | 0.72 | 1.25/0.62 | 1.5 | 5.7/0.4 | 0.9 | 257 | 50 | | | |
| 92/10/24 | 72 | 15.5 | 23.6/ 8.1 | 115 | 709 | 64 | 89/39 | 1.20 | 1.44/1.07 | 2.7 | 6.6/0.6 | 2.1 | 265 | 39 | | | |
| 92/10/25 | 72 | 16.6 | 24.5/ 8.1 | 182 | 666 | 59 | 86/34 | 0.98 | 1.06/0.92 | 1.4 | 2.3/0.4 | 1.0 | 225 | 38 | | | |
| 92/10/26 | 72 | 17.1 | 24.0/10.8 | 162 | 650 | 52 | 81/28 | 0.91 | 1.00/0.85 | 1.5 | 2.3/0.4 | 1.1 | 309 | 38 | | | |
| 92/10/27 | 72 | 15.2 | 20.4/10.5 | 146 | 504 | 54 | 91/31 | 1.00 | 1.45/0.84 | 1.7 | 4.1/0.5 | 1.3 | 240 | 42 | | | |
| 92/10/28 | 72 | 14.1 | 18.8/12.0 | 150 | 574 | 72 | 96/50 | 1.22 | 1.36/1.07 | 1.5 | 3.5/0.4 | 1.0 | 256 | 43 | | | |
| 92/10/29 | 72 | 14.0 | 17.5/10.0 | 157 | 564 | 67 | 78/47 | 1.07 | 1.10/1.02 | 3.3 | 4.2/2.0 | 2.8 | 221 | 29 | | | |
| 92/10/30 | 72 | 13.8 | 17.2/ 9.7 | 152 | 554 | 59 | 67/38 | 0.97 | 1.02/0.83 | 2.7 | 3.8/1.5 | 2.3 | 209 | 34 | | | |
| 92/10/31 | 72 | 13.5 | 17.3/ 9.0 | 150 | 555 | 48 | 58/36 | 0.82 | 0.94/0.59 | 2.3 | 4.0/1.2 | 2.2 | 267 | 42 | | | |
| 92/11/01 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| 92/11/02 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| 92/11/03 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| 92/11/04 | 72 | 11.7 | 18.3/ 4.2 | 136 | 625 | 24 | 37/15 | 0.28 | 0.32/0.25 | 1.2 | 1.8/0.4 | 0.7 | 279 | 48 | | | |
| 92/11/05 | 72 | 14.1 | 24.1/ 3.8 | 194 | 629 | 31 | 49/19 | 0.49 | 0.59/0.35 | 1.7 | 3.9/0.8 | 1.1 | 236 | 49 | | | |
| 92/11/06 | 72 | 16.8 | 23.3/ 5.1 | 371 | 618 | 27 | 52/17 | 0.46 | 0.49/0.42 | 1.3 | 1.6/1.0 | 0.4 | 250 | 65 | | | |
| 92/11/07 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| 92/11/08 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |
| 92/11/09 | 72 | 14.2 | 20.9/ 3.5 | 478 | 639 | 12 | 21/8 | 0.20 | 0.28/0.16 | 1.8 | 2.8/1.2 | 1.1 | 283 | 49 | | | |
| 92/11/10 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | | |
|----------|------------------|-------------------------------|------------|---------|---------|--|-------|-----------------------------|-----------|------------------------------|---------|-------------------------------|---------|-------------------------------|-----|-----------|
| | | Mean | | Max/min | | Mean | Max | Mean | Max/min | Mean | Max/min | Mean | Max/min | Magnitude (meters per second) | °az | Std. dev. |
| | | Mean | Max/min | Max/min | Max/min | | | | | | | | | | | |
| 92/11/11 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/11/12 | 72 | 14.5 | 23.5/ 4.2 | 172 | 625 | 12 | 22/6 | 0.18 | 0.20/0.16 | 1.3 | 2.6/0.4 | 0.9 | 293 | 43 | | |
| 92/11/13 | 72 | 16.1 | 25.8/ 6.0 | 239 | 613 | 20 | 33/13 | 0.35 | 0.41/0.27 | 1.4 | 2.3/0.4 | 0.9 | 224 | 49 | | |
| 92/11/14 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/11/15 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/11/16 | 72 | 15.9 | 23.9/ 5.5 | 218 | 591 | 25 | 39/17 | 0.41 | 0.45/0.33 | 1.4 | 2.3/0.5 | 1.0 | 244 | 39 | | |
| 92/11/17 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/11/18 | 72 | 7.2 | 8.2/ 5.1 | 234 | 631 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/11/19 | 72 | 7.5 | 12.5/ 3.8 | 155 | 616 | 28 | 41/17 | 0.28 | 0.39/0.22 | 6.0 | 8.1/4.4 | 5.0 | 230 | 32 | | |
| 92/11/20 | 72 | 4.4 | 13.9/ -2.0 | 123 | 518 | 24 | 35/15 | 0.20 | 0.22/0.16 | 1.6 | 6.5/0.5 | 1.1 | 237 | 48 | | |
| 92/11/21 | 72 | 5.9 | 13.3/ -3.1 | 153 | 603 | 26 | 35/13 | 0.24 | 0.38/0.16 | 1.9 | 3.9/0.6 | 1.5 | 254 | 39 | | |
| 92/11/22 | 72 | 4.9 | 8.7/ 2.9 | 109 | 507 | 38 | 44/28 | 0.32 | 0.33/0.31 | 4.1 | 6.6/1.3 | 2.8 | 247 | 46 | | |
| 92/11/23 | 72 | 6.3 | 13.5/ 1.7 | 182 | 603 | 25 | 34/18 | 0.26 | 0.31/0.24 | 4.3 | 6.4/1.4 | 3.0 | 244 | 39 | | |
| 92/11/24 | 72 | 3.7 | 10.7/ -2.0 | 130 | 550 | 31 | 41/22 | 0.24 | 0.28/0.18 | 2.9 | 5.6/0.4 | 2.5 | 223 | 30 | | |
| 92/11/25 | 72 | 4.5 | 15.5/ -4.6 | 143 | 596 | 25 | 33/16 | 0.20 | 0.24/0.12 | 1.1 | 2.0/0.4 | 0.7 | 237 | 43 | | |
| 92/11/26 | 72 | 1.9 | 17.0/ -8.4 | 150 | 598 | 19 | 33/8 | 0.13 | 0.15/0.11 | 1.3 | 2.1/0.4 | 0.9 | 258 | 41 | | |
| 92/11/27 | 72 | 5.1 | 18.5/ -3.1 | 146 | 581 | 15 | 23/6 | 0.12 | 0.14/0.11 | 1.4 | 2.3/0.4 | 1.0 | 262 | 39 | | |
| 92/11/28 | 72 | 8.3 | 16.4/ -0.5 | 141 | 580 | 28 | 49/16 | 0.33 | 0.45/0.13 | 3.5 | 6.0/0.7 | 2.8 | 239 | 39 | | |
| 92/11/29 | 72 | 7.0 | 15.0/ 0.3 | 130 | 558 | 30 | 39/21 | 0.3 | 0.35/0.25 | 2.9 | 6.0/0.8 | 2.3 | 255 | 39 | | |
| 92/11/30 | 72 | 1.8 | 11.8/ -4.1 | 182 | 588 | 39 | 53/17 | 0.25 | 0.29/0.22 | 1.2 | 1.7/0.5 | 0.8 | 276 | 47 | | |
| 92/12/01 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/02 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/03 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/04 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/05 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/06 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/07 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/08 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 92/12/09 | 72 | 7.7 | 8.8/ 6.6 | 131 | 423 | 72 | 89/61 | 0.73 | 0.86/0.55 | 0.6 | 1.8/0.4 | 0.4 | 264 | 42 | | |
| 92/12/10 | 72 | 7.2 | 12.5/ 1.4 | 159 | 314 | 78 | 94/64 | 0.79 | 0.88/0.62 | 1.3 | 2.8/0.4 | 1.0 | 291 | 37 | | |
| 92/12/11 | 72 | 5.8 | 14.1/ 0.4 | 110 | 504 | 74 | 94/53 | 0.69 | 0.82/0.59 | 1.9 | 4.8/0.4 | 1.4 | 281 | 41 | | |
| 92/12/12 | 72 | 5.3 | 10.0/ 2.8 | 128 | 532 | 43 | 78/30 | 0.39 | 0.61/0.31 | 6.0 | 9.6/1.9 | 4.8 | 291 | 35 | | |
| 92/12/13 | 72 | 5.0 | 10.3/ 2.1 | 134 | 551 | 35 | 41/26 | 0.30 | 0.32/0.28 | 6.1 | 8.0/2.7 | 4.0 | 289 | 46 | | |
| 92/12/14 | 72 | 4.7 | 14.0/ -2.6 | 132 | 551 | 40 | 82/22 | 0.31 | 0.45/0.23 | 2.7 | 8.3/0.4 | 2.0 | 252 | 43 | | |
| 92/12/15 | 72 | 0.6 | 12.2/ -4.6 | 163 | 552 | 56 | 83/27 | 0.38 | 0.44/0.24 | 3.1 | 6.9/0.6 | 2.5 | 225 | 40 | | |

Table 3. Summary of selected meteorological data collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from hourly or 20-minute mean values—Continued

| Date | Number of values | Temperature (degrees Celsius) | | Solar radiation (watts per square meter) | | Relative humidity (percent) | | Vapor pressure (kilopascals) | | Windspeed (meters per second) | | Wind vector | |
|----------|------------------|-------------------------------|-----------|--|-----|-----------------------------|--------|------------------------------|-----------|-------------------------------|---------|-------------------------------|---------------|
| | | Mean | | Mean | | Mean | | Mean | | Mean | | Magnitude (meters per second) | Direction °az |
| | | Max/min | | Max | | Max/min | | Max/min | | Max/min | | | |
| 92/12/16 | 72 | 1.1 | 8.4/-3.9 | 148 | 517 | 35 | 52/28 | 0.25 | 0.27/0.24 | 1.6 | 3.6/0.4 | 1.3 | 244 |
| 92/12/17 | 72 | 1.3 | 9.9/-7.3 | 132 | 547 | 39 | 55/30 | 0.35 | 0.63/0.26 | 2.5 | 6.9/0.5 | 2.0 | 262 |
| 92/12/18 | 72 | 2.0 | 7.3/-1.5 | 133 | 556 | 39 | 54/29 | 0.29 | 0.52/0.20 | 5.0 | 6.8/2.9 | 4.2 | 216 |
| 92/12/19 | 72 | 0.0 | 8.5/-7.3 | 134 | 554 | 31 | 53/25 | 0.22 | 0.26/0.20 | 3.1 | 6.8/0.4 | 2.6 | 241 |
| 92/12/20 | 72 | -1.2 | 10.3/-7.8 | 127 | 548 | 35 | 55/24 | 0.23 | 0.27/0.15 | 1.2 | 2.0/0.4 | 0.9 | 240 |
| 92/12/21 | 72 | -0.9 | 11.6/-8.6 | 132 | 542 | 34 | 50/28 | 0.29 | 0.33/0.12 | 1.1 | 2.4/0.4 | 0.8 | 238 |
| 92/12/22 | 72 | 4.6 | 13.4/-2.8 | 133 | 548 | 33 | 96/19 | 0.27 | 0.33/0.17 | 3.7 | 5.7/1.3 | 3.0 | 215 |
| 92/12/23 | 72 | 6.6 | 17.4/-0.6 | 132 | 547 | 47 | 99/19 | 1.45 | 1.82/1.17 | 2.5 | 5.9/0.5 | 1.7 | 206 |
| 92/12/24 | 72 | 4.6 | 16.9/-5.0 | 133 | 549 | 45 | 100/21 | 1.42 | 1.72/1.11 | 2.0 | 7.7/0.6 | 1.4 | 233 |
| 92/12/25 | 72 | 5.4 | 16.7/-4.1 | 137 | 557 | 47 | 100/13 | 1.44 | 2.17/1.09 | 1.8 | 6.9/0.4 | 1.4 | 225 |
| 92/12/26 | 72 | 0.3 | 13/-7.9 | 133 | 537 | 49 | 100/19 | 1.49 | 2.22/1.19 | 1.5 | 2.5/0.4 | 1.2 | 226 |
| 92/12/27 | 72 | 1.3 | 8.7/-6.4 | 88 | 498 | 59 | 100/23 | 1.56 | 2.31/1.13 | 1.3 | 2.3/0.4 | 1.0 | 224 |
| 92/12/28 | 72 | 4.8 | 8.7/ 1.8 | 35 | 162 | 44 | 70/32 | 1.32 | 2.07/1.02 | 2.7 | 5.8/0.6 | 2.4 | 269 |
| 92/12/29 | 72 | 8.1 | 14.0/ 4.9 | 93 | 568 | 53 | 100/32 | 1.55 | 1.86/1.09 | 4.2 | 6.9/0.8 | 3.6 | 266 |
| 92/12/30 | 72 | 5.8 | 13.2/-0.4 | 130 | 555 | 56 | 100/33 | 1.45 | 1.79/1.22 | 2.1 | 3.7/0.4 | 1.6 | 249 |
| 92/12/31 | 72 | 5.5 | 12.9/ 0.3 | 139 | 523 | 61 | 88/36 | 0.58 | 1.16/0.33 | 1.2 | 1.5/0.4 | 1.0 | 304 |

Table 4. Summary of soil-temperature, soil-heat-flux, and net-radiation measurements collected at study site near Beatty, Nev., in 1992. Daily mean, daily maximum, and daily minimum values were determined from 20-minute mean values. All listed daily values based on 72 values.

[Symbols and abbreviations: °C, degrees Celsius; W/m², watts per meter squared; --, data not available; max, maximum; min, minimum]

| Date | Soil temperature (°C) | | Soil-heat flux (W/m ²) | | Net radiation (W/m ²) | |
|----------|-----------------------|------------|------------------------------------|------------|-----------------------------------|-----------|
| | Mean | Max/min | Mean | Max/min | Mean | Max/min |
| 92/06/06 | 32.6 | 44.7/ 23.9 | 2.4 | 42.4/-22.5 | 131 | 580/ -94 |
| 92/06/07 | 33.2 | 49.8/ 19.1 | 8.1 | 56.5/-27.8 | 133 | 528/ -100 |
| 92/06/08 | 35.5 | 51.7/ 22.9 | 11.1 | 58.1/-20.0 | 135 | 523/ -99 |
| 92/06/09 | 35.9 | 51.1/ 24.0 | 11.0 | 56.6/-19.0 | 133 | 529/ -102 |
| 92/06/10 | 34.8 | 49.1/ 23.5 | 8.2 | 50.9/-20.3 | 134 | 541/ -107 |
| 92/06/11 | 34.4 | 49.3/ 22.4 | 8.1 | 52.4/-22.4 | 135 | 537/ -99 |
| 92/06/12 | 33.0 | 48.4/ 21.8 | 5.2 | 50.6/-24.2 | 130 | 546/ -117 |
| 92/06/13 | 31.0 | 47.1/ 19.2 | 2.7 | 50.7/-27.9 | 131 | 530/ -105 |
| 92/06/14 | 26.7 | 38.6/ 18.8 | -5.4 | 28.7/-27.6 | 138 | 536/ -88 |
| 92/06/15 | 28.5 | 44.7/ 14.6 | 2.4 | 48.4/-32.1 | 144 | 593/ -76 |
| 92/06/16 | 30.1 | 46.8/ 17.3 | 5.2 | 51.9/-26.2 | 142 | 545/ -99 |
| 92/06/17 | 32.3 | 49.1/ 17.6 | 8.9 | 58.6/-27.8 | 138 | 537/ -104 |
| 92/06/18 | 32.8 | 50.1/ 18.6 | 8.3 | 59.4/-27.2 | 135 | 522/ -118 |
| 92/06/19 | 33.8 | 51.6/ 18.5 | 9.9 | 61.6/-28.3 | 131 | 520/ -107 |
| 92/06/20 | 34.6 | 52.5/ 19.4 | 10.3 | 62.9/-27.6 | 129 | 511/ -105 |
| 92/06/21 | 33.8 | 50.0/ 20.3 | 7.8 | 54.6/-26.6 | 120 | 536/ -105 |
| 92/06/22 | 34.0 | 50.8/ 19.6 | 7.9 | 57.4/-28.4 | 114 | 472/ -78 |
| 92/06/23 | 33.9 | 48.0/ 23.1 | 6.9 | 52.9/-19.9 | 96 | 586/ -81 |
| 92/06/24 | 34.4 | 50.4/ 21.4 | 8.8 | 53.5/-23.2 | 129 | 550/ -96 |
| 92/06/25 | 33.2 | 46.7/ 21.0 | 5.7 | 47.1/-25.4 | 108 | 520/ -92 |
| 92/06/26 | 35.5 | 51.8/ 20.9 | 11.0 | 58.4/-24.4 | 139 | 547/ -92 |
| 92/06/27 | 37.0 | 53.7/ 22.5 | 12.2 | 60.6/-23.5 | 139 | 525/ -100 |
| 92/06/28 | 36.8 | 52.7/ 23.3 | 10.1 | 57.5/-23.7 | 140 | 541/ -82 |
| 92/06/29 | 35.1 | 49.6/ 25.2 | 6.4 | 50.5/-20.5 | 131 | 545/ -88 |
| 92/06/30 | 34.5 | 50.5/ 21.9 | 6.8 | 53.8/-25.5 | 142 | 531/ -99 |
| 92/07/01 | 33.5 | 49.2/ 21.7 | 4.8 | 50.8/-25.1 | 143 | 549/ -95 |
| 92/07/02 | 34.4 | 51.7/ 19.6 | 7.6 | 56.7/-29.4 | 138 | 533/ -99 |
| 92/07/03 | 33.6 | 48.5/ 21.1 | 4.8 | 49.3/-26.7 | 118 | 558/ -83 |
| 92/07/04 | 35.7 | 51.9/ 23.2 | 9.7 | 56.8/-19.8 | 139 | 548/ -110 |
| 92/07/05 | 36.1 | 51.3/ 23.9 | 9.5 | 53.7/-22.0 | 127 | 560/ -93 |
| 92/07/06 | 38.0 | 53.1/ 25.5 | 11.9 | 57.2/-20.1 | 148 | 538/ -76 |
| 92/07/07 | 34.9 | 45.4/ 27.1 | 3.5 | 38.0/-16.7 | 74 | 489/ -59 |
| 92/07/08 | 32.1 | 41.1/ 25.9 | 1.0 | 27.6/-15.3 | 82 | 411/ -50 |
| 92/07/09 | 35.2 | 48.7/ 24.2 | 8.3 | 47.6/-17.6 | 120 | 500/ -63 |
| 92/07/10 | 37.2 | 51.6/ 25.0 | 10.9 | 54.9/-18.9 | 135 | 576/ -64 |
| 92/07/11 | 37.0 | 51.6/ 27.0 | 8.2 | 49.5/-15.9 | 139 | 574/ -62 |
| 92/07/12 | 35.2 | 47.1/ 26.0 | 4.7 | 38.3/-18.8 | 125 | 585/ -58 |
| 92/07/13 | 30.2 | 46.1/ 20.7 | -6.8 | 43.9/-34.2 | 94 | 581/ -58 |
| 92/07/14 | 31.8 | 46.8/ 17.7 | 1.7 | 65.6/-34.6 | 156 | 602/ -78 |
| 92/07/15 | 33.8 | 46.3/ 22.0 | 2.2 | 63.7/-31.6 | 120 | 632/ -77 |
| 92/07/16 | 36.7 | 52.8/ 23.7 | 6.9 | 63.5/-26.7 | 144 | 556/ -85 |
| 92/07/17 | 37.1 | 53.0/ 24.3 | 7.6 | 56.0/-25.0 | 139 | 541/ -85 |
| 92/07/18 | 38.7 | 55.0/ 24.9 | 11.7 | 58.8/-22.3 | 143 | 542/ -92 |
| 92/07/19 | 39.1 | 54.7/ 28.5 | 11.5 | 56.2/-18.8 | 140 | 563/ -98 |
| 92/07/20 | 37.9 | 54.4/ 24.6 | 9.0 | 56.8/-24.5 | 143 | 548/ -94 |

Table 4. Summary of soil temperature, soil-heat-flux, and net-radiation measurements collected at study site near Beatty, Nev., in 1992—Continued

| Date | Soil temperature (°C) | | Soil-heat flux (W/m ²) | | Net radiation (W/m ²) | |
|----------|--------------------------|------------|---------------------------------------|------------|--------------------------------------|-----------|
| | Mean | Max/min | Mean | Max/min | Mean | Max/min |
| 92/07/21 | 36.8 | 53.3/ 22.9 | 6.9 | 54.6/-28.1 | 139 | 552/ -91 |
| 92/07/22 | 36.2 | 51.5/ 25.4 | 6.4 | 50.2/-20.6 | 145 | 573/ -92 |
| 92/07/23 | 35.6 | 52.1/ 22.6 | 5.9 | 53.6/-26.0 | 141 | 557/ -100 |
| 92/07/24 | 35.1 | 51.2/ 21.7 | 5.7 | 52.5/-27.5 | 147 | 557/ -85 |
| 92/07/25 | 37.0 | 53.5/ 24.3 | 9.0 | 56.5/-21.7 | 143 | 538/ -94 |
| 92/07/26 | 36.9 | 53.6/ 22.6 | 8.2 | 56.1/-26.9 | 144 | 545/ -90 |
| 92/07/27 | 35.3 | 50.6/ 23.9 | 7.6 | 50.3/-24.5 | 157 | 538/ -59 |
| 92/07/28 | 34.0 | 50.2/ 18.7 | 5.8 | 58.5/-28.7 | 133 | 538/ -92 |
| 92/07/29 | 33.0 | 48.1/ 20.4 | 9.1 | 58.7/-26.5 | 137 | 532/ -93 |
| 92/07/30 | 32.4 | 47.5/ 22.1 | 6.8 | 54.7/-25.3 | 137 | 567/ -67 |
| 92/07/31 | 34.1 | 49.5/ 23.4 | 9.5 | 52.7/-19.5 | 127 | 557/ -72 |
| 92/08/01 | 34.9 | 50.8/ 23.5 | 11.7 | 54.3/-19.1 | 141 | 562/ -75 |
| 92/08/02 | 35.5 | 50.9/ 23.1 | 10.4 | 55.2/-20.4 | 142 | 538/ -81 |
| 92/08/03 | 31.5 | 46.5/ 26.6 | 9.5 | 55.0/-22.5 | 141 | 530/ -78 |
| 92/08/04 | 31.2 | 46.1/ 22.5 | 5.9 | 50.5/-14.8 | 114 | 610/ -73 |
| 92/08/05 | 31.4 | 46.4/ 22.6 | 5.2 | 48.8/-19.3 | 150 | 586/ -58 |
| 92/08/06 | 32.3 | 47.0/ 21.2 | 5.3 | 48.2/-19.3 | 133 | 540/ -82 |
| 92/08/07 | 32.5 | 47.8/ 18.1 | 4.8 | 49.7/-24.1 | 137 | 534/ -99 |
| 92/08/08 | 33.1 | 48.6/ 20.0 | 4.8 | 51.5/-27.0 | 138 | 543/ -90 |
| 92/08/09 | 34.6 | 49.7/ 20.6 | 7.5 | 56.4/-25.5 | 136 | 536/ -82 |
| 92/08/10 | 36.8 | 51.5/ 24.1 | 4.6 | 44.6/-24.3 | 93 | 532/ -74 |
| 92/08/11 | 35.1 | 50.1/ 22.1 | 8.0 | 58.2/-21.8 | 153 | 535/ -46 |
| 92/08/12 | 34.4 | 49.4/ 24.6 | 2.5 | 45.4/-26.1 | 137 | 551/ -65 |
| 92/08/13 | 33.5 | 48.9/ 24.5 | 8.7 | 50.8/-20.1 | 156 | 563/ -59 |
| 92/08/14 | 34.9 | 50.2/ 23.9 | 8.1 | 51.5/-18.6 | 137 | 564/ -67 |
| 92/08/15 | 34.0 | 49.8/ 23.3 | 9.9 | 54.1/-19.3 | 141 | 543/ -77 |
| 92/08/16 | 35.2 | 50.7/ 22.9 | 8.3 | 52.4/-22.9 | 137 | 535/ -73 |
| 92/08/17 | 36.0 | 50.8/ 22.1 | 7.1 | 53.2/-22.6 | 138 | 542/ -83 |
| 92/08/18 | 35.6 | 51.0/ 21.8 | 6.8 | 55.4/-24.6 | 133 | 523/ -87 |
| 92/08/19 | 34.7 | 49.9/ 25.1 | 6.0 | 54.8/-24.7 | 126 | 539/ -78 |
| 92/08/20 | 33.7 | 48.7/ 19.2 | 6.7 | 52.9/-21.1 | 129 | 526/ -87 |
| 92/08/21 | 28.4 | 43.7/ 22.5 | 3.5 | 48.4/-24.8 | 134 | 550/ -79 |
| 92/08/22 | 27.0 | 42.0/ 17.8 | 1.7 | 47.1/-25.8 | 126 | 537/ -89 |
| 92/08/23 | 28.1 | 43.5/ 12.5 | -1.3 | 44.2/-27.8 | 123 | 540/ -91 |
| 92/08/24 | 28.4 | 43.5/ 16.0 | 0.6 | 50.8/-33.3 | 127 | 523/ -81 |
| 92/08/25 | 30.1 | 45.1/ 16.9 | 3.0 | 50.4/-26.3 | 126 | 520/ -80 |
| 92/08/26 | 31.3 | 46.6/ 16.3 | 3.5 | 52.2/-26.4 | 124 | 508/ -81 |
| 92/08/27 | 30.2 | 45.8/ 17.9 | 4.0 | 53.9/-28.3 | 125 | 518/ -81 |
| 92/08/28 | 30.5 | 45.6/ 17.6 | 3.5 | 47.0/-24.7 | 121 | 540/ -75 |
| 92/08/29 | 25.8 | 40.7/ 15.7 | 3.3 | 50.1/-24.9 | 130 | 543/ -71 |
| 92/08/30 | 26.5 | 41.9/ 11.2 | -0.3 | 43.8/-28.5 | 125 | 537/ -86 |
| 92/08/31 | 27.1 | 42.9/ 15.3 | -0.8 | 48.2/-32.4 | 128 | 523/ -73 |
| 92/09/01 | 27.4 | 42.9/ 18.8 | 1.9 | 48.9/-26.7 | 116 | 556/ -54 |
| 92/09/02 | 26.9 | 41.9/ 17.6 | -1.6 | 32.0/-21.1 | 75 | 497/ -65 |
| 92/09/03 | 24.8 | 40.0/ 17.2 | -5.4 | 27.8/-22.3 | 62 | 541/ -62 |
| 92/09/04 | 26.8 | 42.1/ 14.8 | -0.1 | 35.4/-20.7 | 135 | 554/ -60 |
| 92/09/05 | 28.5 | 43.5/ 16.1 | 2.5 | 47.0/-25.3 | 114 | 531/ -70 |
| 92/09/06 | 28.2 | 43.3/ 16.5 | 2.8 | 50.4/-25.4 | 120 | 506/ -82 |
| 92/09/07 | 29.6 | 45.0/ 15.0 | 2.6 | 48.5/-25.5 | 121 | 508/ -76 |
| 92/09/08 | 31.0 | 46.3/ 14.0 | 3.2 | 51.5/-25.7 | 119 | 502/ -81 |
| 92/09/09 | 30.4 | 45.5/ 17.5 | 3.2 | 52.8/-27.4 | 118 | 491/ -79 |
| 92/09/10 | 29.4 | 44.4/ 17.7 | 1.6 | 45.0/-24.7 | 109 | 510/ -71 |

Table 4. Summary of soil temperature, soil-heat-flux, and net-radiation measurements collected at study site near Beatty, Nev., in 1992—Continued

| Date | Soil temperature (°C) | | Soil-heat flux (W/m ²) | | Net radiation (W/m ²) | |
|----------|-----------------------|------------|------------------------------------|------------|-----------------------------------|----------|
| | Mean | Max/min | Mean | Max/min | Mean | Max/min |
| 92/09/11 | 27.5 | 42.4/ 16.5 | -0.2 | 40.6/-23.0 | 86 | 594/ -58 |
| 92/09/12 | 28.2 | 43.3/ 14.2 | 1.1 | 46.7/-23.3 | 90 | 556/ -64 |
| 92/09/13 | 29.0 | 44.2/ 12.7 | 0.9 | 49.1/-28.2 | 113 | 494/ -78 |
| 92/09/14 | 28.5 | 43.4/ 12.8 | 0.1 | 46.8/-27.8 | 117 | 505/ -75 |
| 92/09/15 | 28.7 | 43.5/ 16.9 | 1.9 | 48.3/-27.0 | 120 | 507/ -62 |
| 92/09/16 | 29.2 | 44.3/ 15.8 | 2.6 | 46.3/-21.5 | 120 | 512/ -66 |
| 92/09/17 | 25.4 | 40.6/ 20.6 | 4.2 | 48.8/-24.3 | 117 | 488/ -56 |
| 92/09/18 | 26.5 | 42.0/ 17.5 | 1.9 | 37.0/-16.1 | 116 | 516/ -59 |
| 92/09/19 | 27.3 | 42.8/ 14.9 | 1.7 | 45.2/-21.2 | 110 | 485/ -73 |
| 92/09/20 | 28.8 | 44.5/ 17.5 | 1.5 | 47.7/-25.2 | 110 | 471/ -69 |
| 92/09/21 | 31.0 | 46.0/ 17.3 | 2.2 | 49.3/-25.3 | 106 | 472/ -76 |
| 92/09/22 | 30.6 | 45.9/ 19.4 | 3.9 | 47.7/-22.9 | 113 | 486/ -59 |
| 92/09/23 | 29.4 | 44.4/ 15.4 | 0.5 | 41.8/-19.6 | 82 | 498/ -47 |
| 92/09/24 | 27.0 | 41.9/ 17.3 | 1.7 | 44.7/-23.6 | 106 | 482/ -72 |
| 92/09/25 | 22.1 | 37.2/ 12.4 | -1.4 | 34.7/-23.0 | 103 | 489/ -71 |
| 92/09/26 | 23.7 | 38.7/ 10.8 | -2.4 | 44.8/-30.5 | 99 | 463/ -77 |
| 92/09/27 | 23.5 | 39.1/ 11.8 | -0.7 | 48.6/-29.5 | 95 | 578/ -83 |
| 92/09/28 | 21.4 | 36.4/ 15.5 | 1.2 | 49.1/-26.6 | 96 | 524/ -78 |
| 92/09/29 | 20.7 | 35.7/ 17.7 | 1.3 | 44.4/-24.5 | 68 | 446/ -62 |
| 92/09/30 | 19.9 | 34.8/ 15.3 | 2.5 | 44.6/-19.0 | 60 | 383/ -61 |
| 92/10/01 | 17.7 | 30.4/ 15.8 | -0.5 | 37.4/-22.9 | 49 | 323/ -52 |
| 92/10/02 | 21.5 | 37.1/ 14.8 | -2.3 | 30.8/-21.1 | 30 | 195/ -63 |
| 92/10/03 | 22.4 | 38.0/ 15.8 | -3.8 | 30.3/-21.2 | 58 | 374/ -68 |
| 92/10/04 | 23.4 | 38.6/ 9.9 | -2.8 | 30.2/-20.2 | 48 | 338/ -61 |
| 92/10/05 | 25.0 | 40.2/ 14.9 | -3.6 | 38.1/-27.5 | 79 | 476/ -73 |
| 92/10/06 | 22.0 | 37.1/ 7.9 | -3.0 | 32.3/-23.2 | 38 | 285/ -62 |
| 92/10/07 | 23.4 | 38.4/ 8.8 | -6.5 | 37.8/-32.6 | 92 | 561/ -83 |
| 92/10/08 | 19.8 | 34.9/ 9.7 | -4.0 | 39.3/-28.1 | 76 | 528/ -76 |
| 92/10/09 | 20.4 | 35.4/ 15.0 | -1.3 | 38.3/-26.5 | 62 | 346/ -70 |
| 92/10/10 | 17.9 | 32.8/ 11.6 | 1.0 | 39.9/-21.0 | 86 | 541/ -59 |
| 92/10/11 | 18.1 | 33.4/ 11.1 | -0.4 | 43.8/-24.5 | 90 | 577/ -76 |
| 92/10/12 | 16.5 | 31.3/ 11.0 | -0.9 | 44.1/-25.9 | 93 | 576/ -75 |
| 92/10/13 | 13.2 | 28.2/ 11.0 | -1.7 | 41.3/-24.8 | 97 | 540/ -68 |
| 92/10/14 | 12.5 | 27.5/ 8.7 | -2.9 | 34.9/-24.6 | 83 | 442/ -61 |
| 92/10/15 | 12.3 | 27.5/ 12.0 | -3.6 | 34.2/-24.8 | 76 | 437/ -60 |
| 92/10/16 | 13.3 | 28.2/ 8.1 | -3.1 | 32.7/-22.2 | 81 | 482/ -69 |
| 92/10/17 | 13.2 | 28.4/ 12.4 | -3.3 | 37.5/-25.9 | 81 | 505/ -59 |
| 92/10/18 | 17.3 | 32.2/ 10.2 | -0.6 | 37.0/-20.1 | 89 | 470/ -65 |
| 92/10/19 | 14.5 | 29.5/ 7.9 | -2.0 | 38.0/-22.2 | 89 | 536/ -68 |
| 92/10/20 | 13.0 | 24.9/ 14.2 | -2.6 | 38.6/-26.0 | 81 | 478/ -65 |
| 92/10/21 | 12.8 | 26.7/ 14.5 | -4.2 | 27.0/-19.4 | 71 | 439/ -43 |
| 92/10/22 | 13.2 | 28.5/ 12.4 | 1.1 | 34.7/-15.8 | 78 | 479/ -64 |
| 92/10/23 | 12.7 | 22.4/ 10.8 | -1.3 | 34.3/-22.5 | 86 | 462/ -62 |
| 92/10/24 | 12.5 | 22.7/ 8.4 | -8.5 | 19.4/-24.3 | 25 | 431/ -48 |
| 92/10/25 | 13.6 | 23.9/ 8.5 | -6.0 | 33.6/424.6 | 92 | 485/ -60 |
| 92/10/26 | 13.4 | 23.7/ 11.1 | -5.8 | 30.9/-24.8 | 77 | 513/ -58 |
| 92/10/27 | 10.7 | 19.7/ 10.6 | -5.5 | 24.7/-19.6 | 22 | 292/ -60 |
| 92/10/28 | 12.1 | 18.6/ 10.1 | -9.2 | 28.3/-26.4 | 42 | 343/ -67 |
| 92/10/29 | 11.0 | 17.6/ 10.0 | -13.4 | 18.5/-25.1 | 38 | 232/ -36 |

Table 5. Summary of barometric-pressure data collected at study site near Beatty, Nev., in 1992. All daily mean, daily maximum, and daily minimum values were determined from individual measurements made every 30 seconds and averaged and recorded at 10-minute intervals

| Date | Barometric pressure (kilopascals) | | | Date | Barometric pressure (kilopascals) | | |
|----------|-----------------------------------|---------|---------|----------|-----------------------------------|---------|---------|
| | Mean | Maximum | Minimum | | Mean | Maximum | Minimum |
| 92/01/01 | 102.46 | 102.66 | 102.32 | 92/02/16 | 101.45 | 101.77 | 101.02 |
| 92/01/02 | 102.08 | 102.44 | 101.65 | 92/02/17 | 101.94 | 102.10 | 101.78 |
| 92/01/03 | 101.40 | 101.65 | 101.22 | 92/02/18 | 102.13 | 102.29 | 102.00 |
| 92/01/04 | 101.39 | 101.65 | 101.28 | 92/02/19 | 102.09 | 102.28 | 101.86 |
| 92/01/05 | 100.66 | 101.27 | 100.16 | 92/02/20 | 101.83 | 101.96 | 101.68 |
| 92/01/06 | 100.80 | 101.22 | 100.35 | 92/02/21 | 102.11 | 102.28 | 101.95 |
| 92/01/07 | 101.40 | 101.94 | 101.15 | 92/02/22 | 102.03 | 102.40 | 101.74 |
| 92/01/08 | 102.21 | 102.48 | 101.93 | 92/02/23 | 102.40 | 102.58 | 102.19 |
| 92/01/09 | 102.41 | 102.65 | 102.25 | 92/02/24 | 102.43 | 102.73 | 102.18 |
| 92/01/10 | 102.05 | 102.41 | 101.67 | 92/02/25 | 102.40 | 102.58 | 102.20 |
| 92/01/11 | 101.21 | 101.66 | 100.89 | 92/02/26 | 102.55 | 102.81 | 102.30 |
| 92/01/12 | 101.89 | 102.39 | 101.28 | 92/02/27 | 102.46 | 102.70 | 102.24 |
| 92/01/13 | 102.35 | 102.62 | 102.17 | 92/02/28 | 102.17 | 102.44 | 101.89 |
| 92/01/14 | 102.26 | 102.43 | 102.10 | 92/02/29 | 101.44 | 101.88 | 101.05 |
| 92/01/15 | 102.74 | 103.00 | 102.42 | 92/03/01 | 101.10 | 101.25 | 100.95 |
| 92/01/16 | 102.27 | 102.86 | 101.70 | 92/03/02 | 101.05 | 101.26 | 100.85 |
| 92/01/17 | 101.42 | 101.70 | 101.21 | 92/03/03 | 101.11 | 101.23 | 101.00 |
| 92/01/18 | 101.86 | 102.21 | 101.47 | 92/03/04 | 101.24 | 101.41 | 101.08 |
| 92/01/19 | 102.25 | 102.50 | 102.07 | 92/03/05 | 101.23 | 101.42 | 101.07 |
| 92/01/20 | 102.02 | 102.20 | 101.81 | 92/03/06 | 101.15 | 101.31 | 101.03 |
| 92/01/21 | 102.05 | 102.23 | 101.89 | 92/03/07 | 100.82 | 101.12 | 100.55 |
| 92/01/22 | 102.33 | 102.50 | 102.15 | 92/03/08 | 100.78 | 101.11 | 100.55 |
| 92/01/23 | 102.52 | 102.72 | 102.33 | 92/03/09 | 101.53 | 101.99 | 101.11 |
| 92/01/24 | 102.28 | 102.52 | 102.01 | 92/03/10 | 101.87 | 102.15 | 101.59 |
| 92/01/25 | 101.92 | 102.15 | 101.67 | 92/03/11 | 101.66 | 101.89 | 101.42 |
| 92/01/26 | 101.75 | 102.03 | 101.60 | 92/03/12 | 101.71 | 101.91 | 101.55 |
| 92/01/27 | 102.21 | 102.43 | 102.01 | 92/03/13 | 101.73 | 101.96 | 101.52 |
| 92/01/28 | 102.22 | 102.33 | 102.05 | 92/03/14 | 101.53 | 101.75 | 101.33 |
| 92/01/29 | 102.34 | 102.51 | 102.17 | 92/03/15 | 101.30 | 101.56 | 101.10 |
| 92/01/30 | 102.38 | 102.57 | 102.19 | 92/03/16 | 101.08 | 101.25 | 100.83 |
| 92/01/31 | 101.97 | 102.30 | 101.58 | 92/03/17 | 101.26 | 101.42 | 101.14 |
| 92/02/01 | 101.36 | 101.58 | 101.15 | 92/03/18 | 101.59 | 101.82 | 101.41 |
| 92/02/02 | 101.69 | 101.89 | 101.42 | 92/03/19 | 101.91 | 102.20 | 101.69 |
| 92/02/03 | 101.81 | 101.98 | 101.58 | 92/03/20 | 101.27 | 101.68 | 100.83 |
| 92/02/04 | 101.85 | 102.05 | 101.69 | 92/03/21 | 101.07 | 101.27 | 100.90 |
| 92/02/05 | 101.62 | 101.82 | 101.39 | 92/03/22 | 101.22 | 101.39 | 101.07 |
| 92/02/06 | 101.26 | 101.43 | 101.03 | 92/03/23 | 101.48 | 101.83 | 101.22 |
| 92/02/07 | 101.03 | 101.30 | 100.88 | 92/03/24 | -- | -- | -- |
| 92/02/08 | 101.44 | 101.65 | 101.29 | 92/03/25 | 101.86 | 102.15 | 101.35 |
| 92/02/09 | 101.13 | 101.40 | 100.83 | 92/03/26 | 101.24 | 101.35 | 100.84 |
| 92/02/10 | 101.03 | 101.35 | 100.68 | 92/03/27 | 100.85 | 100.94 | 100.75 |
| 92/02/11 | 101.57 | 101.73 | 101.34 | 92/03/28 | 101.21 | 101.51 | 100.78 |
| 92/02/12 | 101.22 | 101.64 | 100.94 | 92/03/29 | 101.64 | 101.86 | 101.37 |
| 92/02/13 | 100.87 | 101.27 | 100.68 | 92/03/30 | -- | -- | -- |
| 92/02/14 | 101.38 | 101.58 | 101.25 | 92/03/31 | 101.56 | 101.69 | 101.26 |
| 92/02/15 | 100.95 | 101.24 | 100.68 | | | | |

Table 5. Summary of barometric-pressure data collected at study site near Beatty, Nev., in 1992—Continued

| Barometric pressure (kilopascals) | | | | Barometric pressure (kilopascals) | | | |
|-----------------------------------|--------|---------|---------|-----------------------------------|--------|---------|---------|
| Date | Mean | Maximum | Minimum | Date | Mean | Maximum | Minimum |
| 92/04/01 | 101.46 | 101.58 | 101.34 | 92/05/16 | 101.01 | 101.19 | 100.81 |
| 92/04/02 | 101.43 | 101.56 | 101.17 | 92/05/17 | 101.12 | 101.30 | 100.95 |
| 92/04/03 | 100.89 | 101.71 | 100.41 | 92/05/18 | 101.41 | 101.54 | 101.23 |
| 92/04/04 | -- | -- | -- | 92/05/19 | 101.44 | 101.73 | 101.15 |
| 92/04/05 | -- | -- | -- | 92/05/20 | 100.92 | 101.17 | 100.62 |
| 92/04/06 | -- | -- | -- | 92/05/21 | 100.85 | 101.08 | 100.61 |
| 92/04/07 | -- | -- | -- | 92/05/22 | 101.15 | 101.51 | 100.84 |
| 92/04/08 | -- | -- | -- | 92/05/23 | 101.55 | 101.69 | 101.40 |
| 92/04/09 | -- | -- | -- | 92/05/24 | 101.53 | 101.76 | 101.28 |
| 92/04/10 | -- | -- | -- | 92/05/25 | 101.40 | 101.61 | 101.14 |
| 92/04/11 | -- | -- | -- | 92/05/26 | 101.13 | 101.39 | 100.80 |
| 92/04/12 | -- | -- | -- | 92/05/27 | 100.93 | 101.18 | 100.63 |
| 92/04/13 | -- | -- | -- | 92/05/28 | 100.95 | 101.24 | 100.66 |
| 92/04/14 | -- | -- | -- | 92/05/29 | -- | -- | -- |
| 92/04/15 | -- | -- | -- | 92/05/30 | -- | -- | -- |
| 92/04/16 | -- | -- | -- | 92/05/31 | -- | -- | -- |
| 92/04/17 | -- | -- | -- | 92/06/01 | -- | -- | -- |
| 92/04/18 | 101.47 | 101.60 | 101.35 | 92/06/02 | -- | -- | -- |
| 92/04/19 | 101.45 | 101.89 | 101.15 | 92/06/03 | -- | -- | -- |
| 92/04/20 | 101.81 | 102.05 | 101.55 | 92/06/04 | -- | -- | -- |
| 92/04/21 | 101.54 | 101.92 | 101.12 | 92/06/05 | -- | -- | -- |
| 92/04/22 | 100.88 | 101.16 | 100.59 | 92/06/06 | -- | -- | -- |
| 92/04/23 | 101.16 | 101.47 | 100.86 | 92/06/07 | -- | -- | -- |
| 92/04/24 | 101.77 | 101.96 | 101.47 | 92/06/08 | -- | -- | -- |
| 92/04/25 | 101.80 | 102.03 | 101.58 | 92/06/09 | -- | -- | -- |
| 92/04/26 | 101.55 | 101.74 | 101.33 | 92/06/10 | -- | -- | -- |
| 92/04/27 | 101.57 | 101.73 | 101.43 | 92/06/11 | -- | -- | -- |
| 92/04/28 | 101.74 | 101.90 | 101.62 | 92/06/12 | -- | -- | -- |
| 92/04/29 | 101.71 | 101.96 | 101.48 | 92/06/13 | -- | -- | -- |
| 92/04/30 | 101.29 | 101.53 | 100.98 | 92/06/14 | -- | -- | -- |
| 92/05/01 | 100.88 | 101.07 | 100.64 | 92/06/15 | -- | -- | -- |
| 92/05/02 | 101.45 | 101.67 | 100.98 | 92/06/16 | -- | -- | -- |
| 92/05/03 | 101.83 | 102.06 | 101.65 | 92/06/17 | -- | -- | -- |
| 92/05/04 | 101.79 | 102.03 | 101.57 | 92/06/18 | -- | -- | -- |
| 92/05/05 | 101.47 | 101.69 | 101.15 | 92/06/19 | -- | -- | -- |
| 92/05/06 | 101.37 | 101.53 | 101.21 | 92/06/20 | -- | -- | -- |
| 92/05/07 | 101.67 | 101.89 | 101.45 | 92/06/21 | -- | -- | -- |
| 92/05/08 | 101.75 | 101.99 | 101.49 | 92/06/22 | -- | -- | -- |
| 92/05/09 | 101.11 | 101.53 | 100.72 | 92/06/23 | -- | -- | -- |
| 92/05/10 | 100.79 | 101.09 | 100.64 | 92/06/24 | -- | -- | -- |
| 92/05/11 | 101.27 | 101.46 | 101.09 | 92/06/25 | -- | -- | -- |
| 92/05/12 | 101.34 | 101.57 | 101.13 | 92/06/26 | -- | -- | -- |
| 92/05/13 | 101.37 | 101.59 | 101.14 | 92/06/27 | -- | -- | -- |
| 92/05/14 | 101.31 | 101.52 | 101.08 | 92/06/28 | -- | -- | -- |
| 92/05/15 | 101.10 | 101.31 | 100.82 | 92/06/29 | -- | -- | -- |
| | | | | 92/06/30 | -- | -- | -- |

Table 5. Summary of barometric-pressure data collected at study site near Beatty, Nev., in 1992—Continued

| Date | Barometric pressure (kilopascals) | | | Date | Barometric pressure (kilopascals) | | |
|----------|-----------------------------------|---------|---------|----------|-----------------------------------|---------|---------|
| | Mean | Maximum | Minimum | | Mean | Maximum | Minimum |
| 92/07/01 | -- | -- | -- | 92/08/21 | 101.27 | 101.55 | 100.98 |
| 92/07/02 | -- | -- | -- | 92/08/22 | 101.00 | 101.24 | 100.71 |
| 92/07/03 | -- | -- | -- | 92/08/23 | 100.88 | 101.09 | 100.56 |
| 92/07/04 | -- | -- | -- | 92/08/24 | 101.14 | 101.33 | 100.94 |
| 92/07/05 | -- | -- | -- | 92/08/25 | 101.32 | 101.48 | 101.11 |
| 92/07/06 | -- | -- | -- | 92/08/26 | 101.65 | 101.83 | 101.47 |
| 92/07/07 | -- | -- | -- | 92/08/27 | 102.00 | 102.24 | 101.75 |
| 92/07/08 | -- | -- | -- | 92/08/28 | 102.00 | 102.26 | 101.75 |
| 92/07/09 | -- | -- | -- | 92/08/29 | 101.71 | 101.94 | 101.46 |
| 92/07/10 | -- | -- | -- | 92/08/30 | 101.53 | 101.76 | 101.31 |
| 92/07/11 | -- | -- | -- | 92/08/31 | 101.47 | 101.71 | 101.20 |
| 92/07/12 | -- | -- | -- | 92/09/01 | 101.34 | 101.52 | 101.12 |
| 92/07/13 | -- | -- | -- | 92/09/02 | 101.39 | 101.56 | 101.25 |
| 92/07/14 | -- | -- | -- | 92/09/03 | 101.60 | 101.79 | 101.43 |
| 92/07/15 | -- | -- | -- | 92/09/04 | 101.33 | 101.62 | 100.91 |
| 92/07/16 | -- | -- | -- | 92/09/05 | 101.51 | 101.68 | 101.17 |
| 92/07/17 | -- | -- | -- | 92/09/06 | 101.54 | 101.80 | 101.32 |
| 92/07/18 | -- | -- | -- | 92/09/07 | 101.36 | 101.52 | 101.21 |
| 92/07/19 | -- | -- | -- | 92/09/08 | 101.53 | 101.76 | 101.38 |
| 92/07/20 | -- | -- | -- | 92/09/09 | 101.44 | 101.65 | 101.22 |
| 92/07/21 | -- | -- | -- | 92/09/10 | 101.39 | 101.60 | 101.21 |
| 92/07/22 | -- | -- | -- | 92/09/11 | 101.42 | 101.65 | 101.22 |
| 92/07/23 | -- | -- | -- | 92/09/12 | 101.30 | 101.53 | 101.09 |
| 92/07/24 | -- | -- | -- | 92/09/13 | 101.27 | 101.48 | 101.10 |
| 92/07/25 | -- | -- | -- | 92/09/14 | 101.18 | 101.43 | 100.93 |
| 92/07/26 | -- | -- | -- | 92/09/15 | 101.00 | 101.23 | 100.75 |
| 92/07/27 | -- | -- | -- | 92/09/16 | 101.13 | 101.29 | 100.95 |
| 92/07/28 | -- | -- | -- | 92/09/17 | 101.47 | 101.70 | 101.31 |
| 92/07/29 | -- | -- | -- | 92/09/18 | 101.39 | 101.66 | 101.13 |
| 92/07/30 | 101.35 | 101.58 | 101.06 | 92/09/19 | 101.33 | 101.47 | 101.21 |
| 92/07/31 | 101.45 | 101.58 | 101.26 | 92/09/20 | 101.33 | 101.58 | 101.04 |
| 92/08/01 | 101.68 | 101.85 | 101.46 | 92/09/21 | 101.24 | 101.41 | 101.07 |
| 92/08/02 | 101.78 | 102.00 | 101.53 | 92/09/22 | 101.46 | 101.64 | 101.31 |
| 92/08/03 | 101.60 | 101.85 | 101.33 | 92/09/23 | 101.60 | 101.82 | 101.43 |
| 92/08/04 | 101.36 | 101.59 | 101.11 | 92/09/24 | 101.39 | 101.63 | 101.15 |
| 92/08/05 | 101.47 | 101.67 | 101.28 | 92/09/25 | 100.97 | 101.20 | 100.61 |
| 92/08/06 | 101.48 | 101.66 | 101.30 | 92/09/26 | 101.39 | 101.68 | 101.03 |
| 92/08/07 | 101.49 | 101.73 | 101.21 | 92/09/27 | 101.82 | 102.08 | 101.64 |
| 92/08/08 | 101.48 | 101.71 | 101.26 | 92/09/28 | 101.78 | 101.99 | 101.56 |
| 92/08/09 | 101.57 | 101.78 | 101.35 | 92/09/29 | 101.76 | 101.94 | 101.58 |
| 92/08/10 | 101.72 | 101.94 | 101.51 | 92/09/30 | 101.82 | 102.03 | 101.67 |
| 92/08/11 | 101.67 | 101.93 | 101.44 | 92/10/01 | 101.78 | 102.01 | 101.56 |
| 92/08/12 | 101.49 | 101.69 | 101.26 | 92/10/02 | 101.43 | 101.74 | 101.08 |
| 92/08/13 | 101.46 | 101.65 | 101.25 | 92/10/03 | 100.87 | 101.11 | 100.60 |
| 92/08/14 | 101.74 | 101.91 | 101.58 | 92/10/04 | 101.26 | 101.42 | 100.96 |
| 92/08/15 | 101.87 | 102.10 | 101.63 | 92/10/05 | 101.52 | 101.74 | 101.36 |
| 92/08/16 | 101.65 | 101.91 | 101.32 | 92/10/06 | 101.70 | 101.87 | 101.56 |
| 92/08/17 | 101.37 | 101.61 | 101.08 | 92/10/07 | 101.91 | 102.11 | 101.73 |
| 92/08/18 | 101.37 | 101.55 | 101.21 | 92/10/08 | 102.14 | 102.44 | 101.93 |
| 92/08/19 | 101.55 | 101.73 | 101.36 | 92/10/09 | 101.69 | 101.96 | 101.38 |
| 92/08/20 | 101.48 | 101.72 | 101.23 | 92/10/19 | 101.54 | 101.72 | 101.38 |

Table 5. Summary of barometric-pressure data collected at study site near Beatty, Nev., in 1992—Continued

| Date | Barometric pressure (kilopascals) | | | Date | Barometric pressure (kilopascals) | | |
|----------|-----------------------------------|---------|---------|----------|-----------------------------------|---------|---------|
| | Mean | Maximum | Minimum | | Mean | Maximum | Minimum |
| 92/10/11 | 101.97 | 102.19 | 101.72 | 92/11/26 | 102.53 | 103.05 | 102.07 |
| 92/10/12 | 102.04 | 102.30 | 101.85 | 92/11/27 | 103.15 | 103.38 | 102.99 |
| 92/10/13 | 101.73 | 102.04 | 101.42 | 92/11/28 | 102.53 | 103.03 | 101.98 |
| 92/10/14 | 101.15 | 101.43 | 100.87 | 92/11/29 | 101.89 | 102.14 | 101.73 |
| 92/10/15 | 101.17 | 101.34 | 100.98 | 92/11/30 | 102.47 | 102.88 | 102.12 |
| 92/10/16 | 101.61 | 101.80 | 101.35 | 92/12/01 | 102.96 | 103.08 | 102.85 |
| 92/10/17 | 101.73 | 101.89 | 101.60 | 92/12/02 | -- | -- | -- |
| 92/10/18 | 101.77 | 101.99 | 101.59 | 92/12/03 | -- | -- | -- |
| 92/10/19 | 101.56 | 101.78 | 101.31 | 92/12/04 | -- | -- | -- |
| 92/10/20 | 101.50 | 101.67 | 101.39 | 92/12/05 | -- | -- | -- |
| 92/10/21 | 101.34 | 101.59 | 101.10 | 92/12/06 | -- | -- | -- |
| 92/10/22 | 101.33 | 101.76 | 101.08 | 92/12/07 | -- | -- | -- |
| 92/10/23 | 102.15 | 102.38 | 101.77 | 92/12/08 | -- | -- | -- |
| 92/10/24 | 102.18 | 102.48 | 101.86 | 92/12/09 | -- | -- | -- |
| 92/10/25 | 101.87 | 102.21 | 101.60 | 92/12/10 | 102.33 | 102.46 | 102.19 |
| 92/10/26 | 101.83 | 101.97 | 101.69 | 92/12/11 | 101.98 | 102.38 | 101.49 |
| 92/10/27 | 101.84 | 102.03 | 101.65 | 92/12/12 | 101.09 | 101.47 | 100.79 |
| 92/10/28 | 101.52 | 101.73 | 101.24 | 92/12/13 | 101.27 | 101.86 | 100.93 |
| 92/10/29 | 101.08 | 101.38 | 100.78 | 92/12/14 | 102.12 | 102.35 | 101.82 |
| 92/10/30 | 100.80 | 100.91 | 100.70 | 92/12/15 | 101.87 | 102.22 | 101.36 |
| 92/10/31 | 100.76 | 100.90 | 100.64 | 92/12/16 | 101.43 | 102.23 | 101.22 |
| 92/11/01 | -- | -- | -- | 92/12/17 | 102.09 | 102.36 | 101.89 |
| 92/11/02 | -- | -- | -- | 92/12/18 | 101.09 | 101.93 | 100.49 |
| 92/11/03 | -- | -- | -- | 92/12/19 | 101.31 | 101.92 | 100.58 |
| 92/11/04 | -- | -- | -- | 92/12/20 | 102.21 | 102.40 | 101.91 |
| 92/11/05 | 101.99 | 102.28 | 101.86 | 92/12/21 | 102.28 | 102.44 | 102.17 |
| 92/11/06 | 101.77 | 101.95 | 101.57 | 92/12/22 | 102.10 | 102.27 | 101.87 |
| 92/11/07 | 102.06 | 102.29 | 101.77 | 92/12/23 | 102.46 | 102.71 | 102.16 |
| 92/11/08 | -- | -- | -- | 92/12/24 | 102.86 | 103.08 | 102.68 |
| 92/11/09 | -- | -- | -- | 92/12/25 | 102.37 | 102.77 | 102.08 |
| 92/11/10 | 101.28 | 101.45 | 101.10 | 92/12/26 | 102.33 | 102.58 | 102.15 |
| 92/11/11 | -- | -- | -- | 92/12/27 | 101.98 | 102.21 | 101.79 |
| 92/11/12 | -- | -- | -- | 92/12/28 | 101.51 | 101.80 | 101.14 |
| 92/11/13 | 102.29 | 102.44 | 102.20 | 92/12/29 | 100.95 | 101.13 | 100.75 |
| 92/11/14 | 102.23 | 102.46 | 102.10 | 92/12/30 | 100.94 | 101.09 | 100.75 |
| 92/11/15 | 102.33 | 102.39 | 102.27 | 92/12/31 | 101.78 | 102.30 | 101.07 |
| 92/11/16 | -- | -- | -- | | | | |
| 92/11/17 | 101.30 | 101.58 | 101.17 | | | | |
| 92/11/18 | -- | -- | -- | | | | |
| 92/11/19 | 101.35 | 101.50 | 101.30 | | | | |
| 92/11/20 | 101.75 | 102.19 | 101.31 | | | | |
| 92/11/21 | 102.04 | 102.36 | 101.68 | | | | |
| 92/11/22 | 101.14 | 101.68 | 100.74 | | | | |
| 92/11/23 | 101.31 | 101.70 | 100.98 | | | | |
| 92/11/24 | 101.44 | 101.75 | 101.30 | | | | |
| 92/11/25 | 101.88 | 102.10 | 101.70 | | | | |