

Albuquerque Solar Resource
Sandia National Laboratories
 Photovoltaic Systems Evaluation Laboratory
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| Annual Daytime Average Values | | | | | | | | | |
|-------------------------------|-----------------------------------|--|---|----------------------------|--|------------------------------|---------------------|---------------------|---------------------------|
| Year | Global Normal Irradiance | Direct Normal Irradiance (TMY3 = 6.7) | Global Horizontal Irradiance** (TMY3 = 5.43) | Latitude Tilt Irradiance** | Diffuse Horizontal Irradiance (TMY3 = 1.46) | Peak GNI (1-hr avg) | Peak DNI (1-hr avg) | Peak GHI (1-hr avg) | Peak Lat. Tilt (1-hr avg) |
| | ----- kWh/m ² /d ----- | | | | | ----- W/m ² ----- | | | |
| TMY2 | 8.8 | 6.7 | 5.6 | 6.4 | 1.6 | - | - | - | - |
| 2017 | 8.76 | 7.14 | 5.49 | 6.31 | 1.20 | 1194 | 1090 | 1102 | 1183 |
| 2016 | 8.72 | 7.10 | 5.50 | 6.16 | 1.25 | 1159 | 1073 | 1071 | 1133 |
| 2015 | 8.26 | 6.58 | 5.29 | 6.07 | 1.34 | 1167 | 1067 | 1090 | 1208 |
| 2014 | 8.85 | 7.10 | 5.54 | 6.40 | 1.28 | 1176 | 1083 | 1098 | 1196 |
| 2013 | 8.82 | 7.23 | 5.59 | 6.63 | 1.24 | 1192 | 1076 | 1093 | 1182 |
| 2012 | 9.17 | 7.41 | 5.69 | 6.65 | 1.21 | 1177 | 1080 | 1091 | 1204 |
| 2011 | 9.06 | 7.29 | 5.65 | 6.59 | 1.21 | 1210 | 1092 | 1084 | 1184 |
| 2010 | 9.02 | 7.33 | 5.58 | 6.40 | 1.14 | 1184 | 1083 | 1091 | 1180 |
| 2009 | 8.88 | 7.10 | 5.47 | 6.49 | 1.29 | 1195 | 1083 | 1091 | 1208 |
| 2008 | 9.01 | 7.31 | 5.57 | 6.54 | 1.22 | 1204 | 1086 | 1077 | 1233 |
| 2007 | 8.73 | 6.93 | 5.46 | 6.32 | 1.27 | 1180 | 1088 | 1072 | 1178 |
| 2006 | 8.80 | 6.88 | 5.51 | 6.43 | 1.31 | 1195 | 1096 | 1103 | 1228 |
| 2005 | 8.60 | 6.82 | 5.39 | 6.23 | 1.30 | 1171 | 1075 | 1100 | 1202 |
| 2004 | 8.82 | 7.06 | 5.55 | 6.31 | 1.24 | 1191 | 1078 | 1120 | 1176 |
| 2003 | 8.80 | 7.05 | 5.38 | 6.29 | 1.29 | 1181 | 1089 | 1080 | 1164 |
| 2002 | 8.96 | 7.15 | 5.58 | 6.50 | 1.29 | 1294 | 1118 | 1115 | 1211 |
| 2001 | 8.75 | 7.00 | 5.46 | 6.31 | 1.28 | 1195 | 1086 | 1105 | 1172 |
| 2000 | 8.73 | 7.01 | 5.48 | 6.29 | 1.27 | 1209 | 1083 | 1125 | 1209 |
| 1999 | 9.03 | 7.37 | 5.53 | 6.53 | 1.23 | 1167 | 1095 | 1107 | 1176 |
| 1998 | 8.81 | 7.04 | 5.45 | 6.23 | 1.30 | 1239 | 1091 | 1102 | 1217 |
| 1997 | 8.39 | 6.76 | 5.22 | 6.05 | 1.32 | 1212 | 1087 | 1099 | 1170 |
| 1996 | 8.76 | 7.19 | 5.42 | 6.39 | 1.24 | 1161 | 1076 | 1096 | 1173 |
| 1995 | 8.49 | 6.91 | 5.42 | 6.26 | 1.33 | 1183 | 1066 | 1082 | 1211 |
| 1994 | 8.53 | 6.71 | 5.35 | 6.19 | 1.33 | 1189 | 1066 | 1112 | 1206 |
| 1993 | 8.57 | 6.48 | 5.36 | 6.20 | 1.47 | 1210 | 1039 | 1132 | 1160 |
| 25 yr avg: | 8.77 | 7.04 | 5.48 | 6.35 | 1.27 | 1197 | 1081 | 1101 | 1192 |

Notes: * Includes daytime and nighttime values.

** Pyranometer corrected for angle of incidence starting in 1996 for horizontal and 1997 for latitude tilt.

Latitude tilt sensor moved from the equivalent of the back row to the front row of an array on 10/10/2007.

TMY = Typical Meteorological Year

Albuquerque Weather
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| Annual Average Values | | | | | | | | | |
|-----------------------|------------------------|---------------------------|--------------------|-------------------------|----------------------------|--------------------------|-----------------|--------------------------|---------------------------|
| Year | Ambient Temp. (24 hrs) | Ambient Temperature (day) | Relative Humidity* | Avg. Wind Speed (@10m)* | Peak Avg WndSpd (1hr avg)* | Peak Wnd Spd (Instant.)* | Wind Direction* | Rainfall (total annual)* | Lightning Near Strikes* ~ |
| | Degrees Celsius | % | meters/sec | | | deg | cm | # | |
| TMY2 | 13.4 | 16.0 | 44 | 4.3 | - | - | - | - | - |
| 2017 | 15.8 | 18.2 | 37 | 3.1 | 15.5 | 25.8 | 152 | 30.3 | 16 |
| 2016 | 15.1 | 18.1 | 39 | 2.9 | 14.3 | 25.7 | 161 | 20.7 | 65 |
| 2015 | 14.6 | 17.5 | 45 | 3.0 | 16.6 | 26.4 | 126 | 26.7 | 71 |
| 2014 | 14.8 | 17.7 | 38 | 3.2 | 14.8 | 27.2 | 142 | 21.2 | 49 |
| 2013 | 14.1 | 17.1 | 38 | 3.1 | 15.9 | 25.6 | 165 | 38.1 | 30 |
| 2012 | 15.4 | 17.9 | 34 | 3.1 | 15.7 | 24.8 | 111 | 13.7 | 18 |
| 2011 | 14.4 | 17.5 | 35 | 3.1 | 17.4 | 27.0 | 113 | 20.6 | 17 |
| 2010 | 14.5 | 17.3 | 47 | 3.2 | 15.6 | 25.2 | 121 | 34.4 | 51 |
| 2009 | 14.5 | 16.8 | 34 | 3.3 | 14.9 | 24.5 | 122 | 24.0 | 12 |
| 2008 | 14.2 | 16.6 | 36 | 3.4 | 14.7 | 24.0 | 148 | 26.9 | 20 |
| 2007 | 14.5 | 16.9 | 38 | 3.3 | 15.5 | 23.5 | 112 | 28.3 | 34 |
| 2006 | 14.5 | 17.0 | 36 | 3.5 | 15.0 | 25.4 | 137 | 51.4 | 61 |
| 2005 | 14.7 | 17.2 | 38 | 3.6 | 17.5 | 27.2 | 133 | 39.4 | 40 |
| 2004 | 13.9 | 16.8 | 37 | 3.9 | 19.0 | 27.0 | 138 | 42.1 | 41 |
| 2003 | 15.0 | 17.5 | 34 | 3.6 | 18.7 | 27.5 | 133 | 20.8 | 24 |
| 2002 | 14.4 | 17.0 | 36 | 3.6 | 18.9 | 32.2 | 135 | 20.8 | 40 |
| 2001 | 14.5 | 17.0 | 42 | 3.7 | 20.1 | 29.3 | 111 | 18.7 | 23 |
| 2000 | 14.6 | 17.2 | 42 | 3.9 | 18.6 | 27.5 | 104 | 34.2 | 59 |
| 1999 | 14.1 | 16.6 | 40 | 4.1 | 20.6 | 30.2 | 72 | 25.9 | - |
| 1998 | 13.9 | 16.4 | 32 | 4.0 | 17.4 | 25.8 | 91 | 32.3 | - |
| 1997 | 13.2 | 15.7 | 32 | 4.1 | 20.6 | 30.8 | 93 | 45.9 | - |
| 1996 | 14.2 | 16.8 | 32 | 3.4 | 19.8 | 31.8 | 99 | 39.3 | - |
| 1995 | 14.5 | 16.9 | 23 | 3.3 | 17.3 | 25.4 | - | 19.7 | - |
| 1994 | 14.0 | 16.6 | 26 | 3.4 | 18.4 | 28.4 | - | 45.3 | - |
| 1993 | 13.6 | 16.2 | 30 | 3.6 | 22.1 | 35.1 | - | 40.2 | - |
| 25 yr avg: | 14.4 | 17.1 | 36.1 | 3.5 | 17.4 | 27.3 | 124 | 30.4 | 37 |

Notes: ~ Near strike definition restricted 6/29/00 to be adjacent (< 4s) Potential Gradient readings of opposite polarity with magnitudes greater than 5kV/m.

Annual Averages

