

**Albuquerque Solar Resource**  
**Sandia National Laboratories**  
 Photovoltaic Systems Evaluation Laboratory  
 W. E. Boyson, 505-844-5979, weboyso@sandia.gov

Annual Daytime Average Values									
Year	Total Normal Irradiance	Direct Normal Irradiance	Total Horizontal Irradiance**	Latitude Tilt Irradiance**	Diffuse Horizontal Irradiance	Peak TNI (1-hr avg)	Peak DNI (1-hr avg)	Peak THI (1-hr avg)	Peak Lat. Tilt (1-hr avg)
	----- kWh/m <sup>2</sup> /d -----					----- W/m <sup>2</sup> -----			
<b>TMY2*</b>	8.8	6.7	5.6	6.4	1.6	-	-	-	-
<b>2007</b>	8.73	6.93	5.46	6.32	1.27	1180	1088	1072	1178
<b>2006</b>	8.80	6.88	5.51	6.43	1.31	1195	1096	1103	1228
<b>2005</b>	8.60	6.82	5.39	6.23	1.30	1171	1075	1100	1202
<b>2004</b>	8.82	7.06	5.55	6.31	1.24	1191	1078	1120	1176
<b>2003</b>	8.80	7.05	5.38	6.29	1.29	1181	1089	1080	1164
<b>2002</b>	8.96	7.15	5.58	6.50	1.29	1294	1118	1115	1211
<b>2001</b>	8.75	7.00	5.46	6.31	1.28	1195	1086	1105	1172
<b>2000</b>	8.73	7.01	5.48	6.29	1.27	1209	1083	1125	1209
<b>1999</b>	9.03	7.37	5.53	6.53	1.23	1167	1095	1107	1176
<b>1998</b>	8.81	7.04	5.45	6.23	1.30	1239	1091	1102	1217
<b>1997</b>	8.39	6.76	5.22	6.05	1.32	1212	1087	1099	1170
<b>1996</b>	8.76	7.19	5.42	6.39	1.24	1161	1076	1096	1173
<b>1995</b>	8.49	6.91	5.42	6.26	1.33	1183	1066	1082	1211
<b>1994</b>	8.53	6.71	5.35	6.19	1.33	1189	1066	1112	1206
<b>1993</b>	8.57	6.48	5.36	6.20	1.47	1210	1039	1132	1160
<b>1992***</b>	7.92	5.48	5.26	5.80	1.74	1172	987	1100	1162
<b>1991</b>	8.52	6.52	5.45	-	1.49	1174	1076	1124	-
<b>1990</b>	8.38	6.63	5.50	-	1.40	1259	1071	1125	-
<b>1989</b>	9.17	7.32	5.94	-	1.26	1198	1081	1159	-

Notes: \* Includes daytime and nighttime values.

\*\* AOI-corrected pyranometer used starting in 1996 for horizontal and 1997 for latitude tilt.

\*\*\*Mt. Pinatubo, Phillipines, erupted 6/91, reduced solar resource late 1991, 1992, early 1993.

**TMY2 = Typical Meteorological Year** See: [http://rredc.nrel.gov/solar/old\\_data/nsrdb/tmy2/](http://rredc.nrel.gov/solar/old_data/nsrdb/tmy2/)

**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	#	
<b>TMY2</b>	13.4	16.0	44	4.3	-	-	-	-	-
<b>2007</b>	14.5	16.9	38	3.3	15.5	23.5	112	28.3	34
<b>2006</b>	14.5	17.0	36	3.5	15.0	25.4	137	51.4	61
<b>2005</b>	14.7	17.2	38	3.6	17.5	27.2	133	39.4	40
<b>2004</b>	13.9	16.8	37	3.9	19.0	27.0	138	42.1	41
<b>2003</b>	15.0	17.5	34	3.6	18.7	27.5	133	20.8	24
<b>2002</b>	14.4	17.0	36	3.6	18.9	32.2	135	20.8	40
<b>2001</b>	14.5	17.0	42	3.7	20.1	29.3	111	18.7	23
<b>2000</b>	14.6	17.2	42	3.9	18.6	27.5	104	34.2	59
<b>1999</b>	14.1	16.6	40	4.1	20.6	30.2	72	25.9	81
<b>1998</b>	13.9	16.4	32	4.0	17.4	25.8	91	32.3	94
<b>1997</b>	13.2	15.7	32	4.1	20.6	30.8	93	45.9	163
<b>1996</b>	14.2	16.8	32	3.4	19.8	31.8	99	39.3	77
<b>1995</b>	14.5	16.9	23	3.3	17.3	25.4	-	19.7	-
<b>1994</b>	14.0	16.6	26	3.4	18.4	28.4	-	45.3	-
<b>1993</b>	13.6	16.2	30	3.6	22.1	35.1	-	40.2	-
<b>1992</b>	12.9	15.4	38	3.3	18.9	29.0	-	37.1	-
<b>1991</b>	13.0	15.5	40	4.0	19.6	30.0	-	30.6	-
<b>1990</b>	13.0	15.5	43	3.9	20.8	31.5	-	30.9	-
<b>1989</b>	14.1	16.7	37	3.8	20.7	31.2	-	-	-

Notes: ~ Near strike definition restricted 6/29/00 to be adjacent (< 3s) Potential Gradient readings of opposite polarity with magnitudes greater than 5kV/m.

### Annual Averages

