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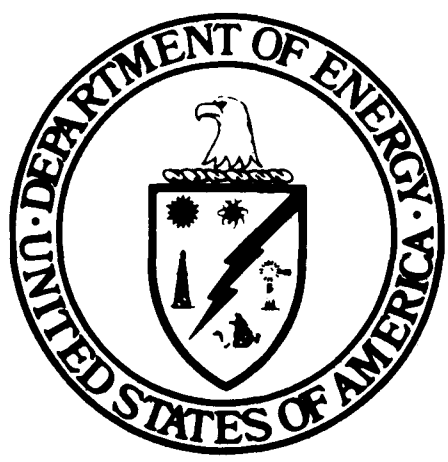
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SOLAR/0010-81/07
(DE81028176)

MASTER

**Environmental Data
for Sites in the
National Solar Data Network**

July 1981



U.S. DEPARTMENT OF ENERGY

NATIONAL SOLAR DATA PROGRAM

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JULY 1981 ENVIRONMENTAL DATA
FOR SITES IN THE
NATIONAL SOLAR DATA NETWORK

PREPARED FOR

U.S. DEPARTMENT OF ENERGY
DE-AC01-79CS30027
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No Valid Data

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ENVIRONMENTAL DATA
FOR
SITES IN THE NATIONAL SOLAR DATA NETWORK

INTRODUCTION

The Department of Energy's National Solar Data Program established solar energy systems in residential and commercial buildings across the United States. These solar sites are linked to Vitro Laboratories Division's computer in the National Solar Data Network (NSDN). Vitro collects and analyzes data from this network to determine the thermal performance of each of the solar systems.

The network consists of: (1) sensors which measure key performance parameters at a selected site; (2) a Site Data Acquisition Subsystem (SDAS); (3) telephone transmission circuits; and (4) a Central Data Processing System (CDPS). Sensor data are collected and stored on a cassette tape in the SDAS. The CDPS collects and processes the information at Vitro and performs the required computations.

For the majority of parameters, raw data is collected approximately every five minutes. Solar radiation and certain other parameters, which are subject to rapid variance, are sampled every 32 seconds. The CDPS interrogates each SDAS on a daily basis and retrieves all accumulated data. At the conclusion of data retrieval, the SDAS cassette is reset by command from the CDPS for continuing data collection.

This report presents environmental information collected at the sites for the reporting month. Only those sites for which the data are found to be valid are reported.

Organization of the Data

The environmental data for the NSDN are presented in the form of tables for each solar site. The solar sites are grouped into 12 zones, each of which consists of several adjacent states (as shown in Figure 1). The solar energy sites are in alphabetical sequence within each zone.

The tables provide available meteorological data for reporting sites in the NSDN as follows:

- o Insolation. The insolation table presents the total, diffuse, direct, maximum, and extraterrestrial radiation for the solar site. It also shows the ratio of total to extraterrestrial radiation, as a percent, representing the ratio of tilted radiation outside the atmosphere to tilted radiation available at the solar collection aperture tilt at the surface.

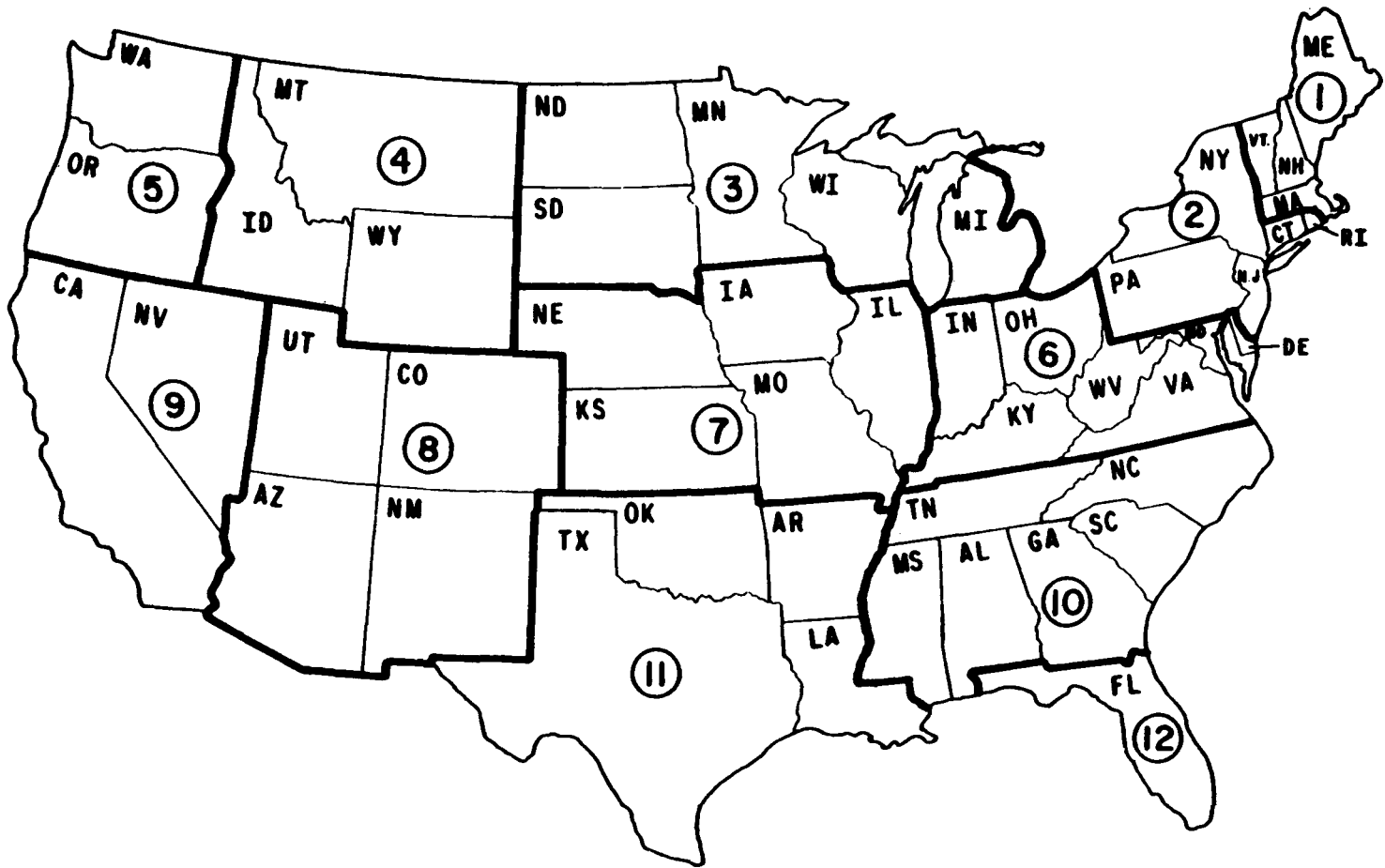


Figure 1. National Solar Data Program Zones

- o Temperature. The temperature table gives the average, daytime, nighttime, maximum, minimum and inlet-water temperatures for the solar site. Outdoor ambient temperature sensors are mounted near the collectors in appropriate radiation shields.

Additional tables are presented for some of these NSDN sites, supplying either wind or relative humidity data, or both.

- o Wind. All of the passive and some of the active solar sites are equipped with wind sensors. These provide information for two wind tables. The first furnishes wind speed and direction. The second table correlates wind speed with time (similar to speed bin-hours) for each day.
- o Humidity. The humidity table provides relative humidity values for day and night. It also gives values for the maximum and minimum humidity for each day.

A technical discussion of the instruments and measurements used to obtain these data tables follows.

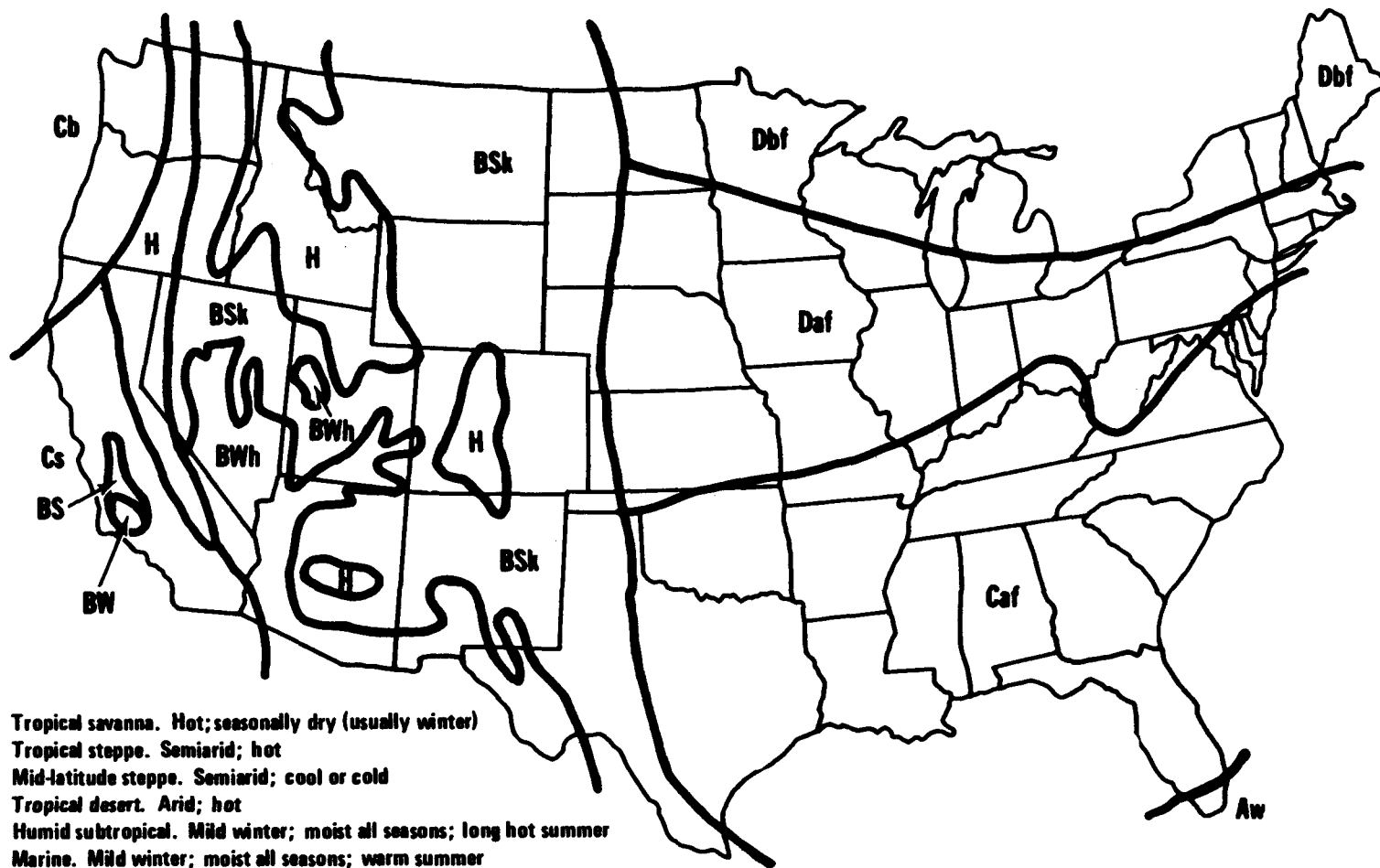
A map illustrating the climate zones is provided in Figure 2, for comparison to NSDN zones and site locations.

SENSOR TECHNOLOGY

Insolation

Eppley pyranometers and shadowband pyranometers are used to measure the amount of radiant energy incident on a surface. A standard pyranometer measures the total amount of solar energy available, including both the direct beam component and the diffuse component, while the shadowband instrument is designed to measure the diffuse component only. The instruments are calibrated in the horizontal position, with an Eppley thermopile used as the signal generator of the sensor. The heating of the thermopile by the radiation of the sun generates the signal, with the response being linear over the operating range. Measurements are in BTU/ft²-hr.

The addition of a shadowband to a pyranometer enables the instrument to record only the diffuse portion of the sunlight by shielding the sensor from the direct rays of the sun (the beam component). The amount of beam radiation available is readily calculated by subtracting the diffuse radiation measurement from the total radiation measured by the unshaded standard pyranometer. This beam radiation measurement is useful when working with focusing solar collectors. When using the shadowband pyranometer, the accuracy of its measurement depends on the correct adjustment of the shadowband to be certain that the sensor is shielded from the direct rays of the sun.



KEY

- Aw** Tropical savanna. Hot; seasonally dry (usually winter)
BS Tropical steppe. Semiarid; hot
BSk Mid-latitude steppe. Semiarid; cool or cold
BWh Tropical desert. Arid; hot
Caf Humid subtropical. Mild winter; moist all seasons; long hot summer
Cb Marine. Mild winter; moist all seasons; warm summer
Cs Coastal Mediterranean. Mild winter; dry summer; short warm summer
Daf Humid continental. Severe winter; moist all seasons; long, hot summer
Dbf Humid continental. Severe winter; moist all seasons; short warm summer
H Undifferentiated highland climates

Figure 2. Climate Zones

Trewartha, G.T. *The Earth's Problem Climates*. University Wisconsin Press, Madison, WI, 1961.

The pyramoneter includes a circular multijunction thermopile of the wire-wound type. The thermopile has the advantage of withstanding some mechanical vibration and shock. The receiver is circular, and coated with Parsons black lacquer. The instrument has a pair of removable precision ground and polished hemispheres of Schott optical glass. It also has a spirit level and a desiccator that can be readily inspected. The clear glass is transparent from a wavelength of about 285 to 2,800 nanometers. The temperature dependence is +1% over the range of -4°F to 140°F . It has a fairly fast response time of one second and a linearity of +5% over the range of the instrument.

Temperature

Temperatures are measured by a Minco Products S53P platinum Resistance Temperature Detector (RTD). Because the resistance of platinum wire varies as a function of temperature, measurement of the resistance of a calibrated length of platinum wire can be used to accurately determine the temperature of the wire. This is the principle of the platinum RTD which utilizes a tiny coil of platinum wire encased in a copper-tipped probe to measure temperature. The probes are designed to have a normal resistance of 100 Ohms at 32°F .

Ambient temperature sensors are housed in a WeatherMeasure Radiation Shield in order to protect the probe from solar radiation. Care is taken to locate the sensor away from extraneous heat sources which could produce erroneous temperature readings. Temperature probes mounted in ducts or pipes are installed in stainless steel thermowells for physical protection of the sensor and to allow easy removal and replacement of the sensors. A thermally conductive grease is used between the probe and the thermowell to assure faster temperature response.

The RTDs are connected in a Wheatstone bridge arrangement to yield an output signal of 0-100 millivolts, which is measured by the SDAS. Different resistance values are used in the bridge, depending on the temperature range the sensor must measure. A third wire is brought out from the sensor and connected into the bridge to compensate for the resistance of the lead wires between the sensor and the SDAS.

The RTDs are individually calibrated to National Bureau of Standards traceable standards at the factory. In addition, a five-point check is done at the site in an attempt to take into account any deviation of the measurement system from nominal values.

The data processing software takes these checks and calibrations into account, using a third-order polynomial curve fit to relate SDAS output to temperature.

Wind

Wind speed and direction are measured by a Model W101-P-DC/360 (or W102-P-DC/360) sensor made by the WeatherMeasure Corporation. This sensor is rugged,

reliable and accurate and will withstand severe environments such as icing and hurricane winds.

Wind speed is measured by a four-bladed propeller coupled to a DC generator. The balanced propeller is fabricated from a special low-density, fiberglass-reinforced plastic to yield maximum sensitivity and strength. The DC generator has excellent linearity but somewhat higher threshold due to brush friction. Thus, wind speeds below one-two mph are typically not reported as valid data.

Dual-wiper, precious-metal slip rings are used to bring the wind speed signals (15 Volts DC at 100 miles per hour) to the base of the sensor. These generally provide trouble-free use for several years.

Wind direction is measured by means of a dual-wiper 1000-Ohm long-life conductive plastic potentiometer housed in the base of the sensor (0-360°). It is attached to the stainless steel shaft which supports and rotates with the upper body assembly.

The potentiometer is of high commercial grade and has sealed bearings. The conductive plastic resistance element has infinite resolution and a lifetime about 10 times that of wire-wound potentiometers. The base is of aluminum, and corrosion-resistant materials are used in the construction.

Humidity

Relative humidity is measured by a WeatherMeasure Corporation Model HM111-P/HM14-P sensor. This measurement is of particular importance in monitoring atmospheric corrosion at solar sites.

This solid-state sensor measures relative humidity over the full range of 0-100%. Response of the sensing element is linear within approximately 1%, from 0-80% relative humidity, with small hysteresis and negligible temperature dependence.

The sensor is based upon the capacitance change of a polymer thin-film capacitor. A one-micron thick dielectric polymer layer absorbs water molecules through a thin metal electrode and causes capacitance change proportional to relative humidity. The thin polymer layer reacts very quickly and, therefore, the response time is very short (one second to 90% humidity change at 68°F).

The polymer material is resistant to most chemicals. Because the sensor response is based on "bulk" effect, under normal conditions dust and dirt do not easily influence its operation. For use outdoors, a sintered filter is used because sulphur dioxide absorbed on small particles can corrode the thin film electrodes of the sensor. The smaller the pore size of the filter, the greater the protection. The response time, however, is increased.

The sensor is mounted in a small probe which contains all the electronics necessary to provide a millivolt output. The output of the probe electronics is linear from 0-100% relative humidity. Because the capacitance change of the sensor is sensitive only to ambient water vapor, temperature compensation is not required in most situations.

MEASUREMENT OF THE DATA

Insolation

Total insolation in the wavelength band of approximately 285 to 2,800 nanometers at the site specific collector tilt angle is given. At some sites the pyranometer is shaded during certain times of the day, varying with the season, or there may be snow, dust or frost on some pyranometers. Figure 3 illustrates insolation and its measurement at typical instrumented sites in the NSDN. The typical mounting configuration for the meteorological measurement of total insolation is horizontal, as shown for NOAA pyranometers. NSDN pyranometer mounting typifies the solar energy available to actual installed collection subsystems or passive apertures and should be compared to, but not equated with, long-term global insolation data.

For sites with concentrating or evacuated tube collectors, diffuse insolation is also measured. Diffuse radiation is measured in the mean plane of tilt of the collectors with a shadowband pyranometer. The diffuse radiation readings have not been corrected for sky radiation blocked by the band. Maladjustment of the shadowband may, in some cases, cause erroneous readings.

Direct insolation is computed by subtracting the diffuse insolation from the total insolation value. The maximum value of total insolation and its time of occurrence in local standard time are also given for each day of the month.

Extraterrestrial radiation values are computed¹ for each site and given for each day of the month. The ratio of total insolation on a tilted surface to extraterrestrial radiation on a parallel surface is given in the last column of the data sheet. This parameter indicates the effects of cloudiness and atmospheric transmission on the insolation received at the earth's surface for each site.

Temperature

The temperature sensors and supporting data acquisition systems in the NSDN have rapid time response and sufficient accuracy to resolve temperatures to $\pm 1^{\circ}\text{F}$ over the monthly reporting period. This feature provides good accuracy of the monthly values to the user.

¹See TRNSYS, a Transient Simulation Program, Engineering Experiment Station Report #38, Solar Energy Laboratory, University of Wisconsin, Madison, 1975.

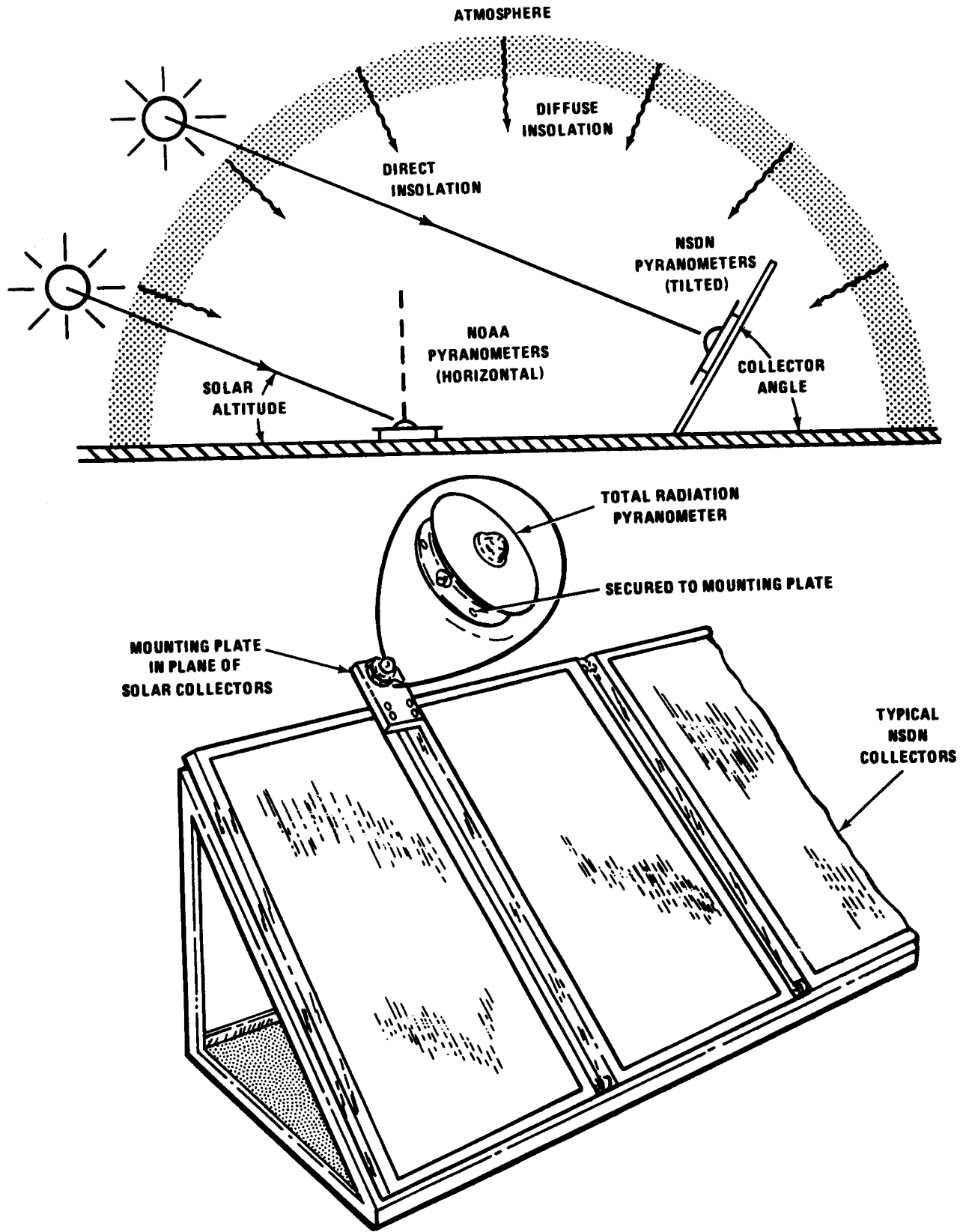


Figure 3. Measurement of Incoming Solar Radiation

The on-site ambient temperature sensor is mounted near the collector array or solar structure and records temperatures in the SDAS that are considered representative of the microclimate temperature near the solar equipment, e.g., collector array, passive structure aperture or mounting location of concentrating collectors.

Average monthly temperature is computed on the basis of all data values for temperature, as opposed to the NWS method: $(\text{Min} + \text{Max})/2$.EO.

Daytime temperature average is computed on the basis of temperatures monitored from 30 minutes prior to sunrise to 30 minutes after sunset.

Nighttime temperatures are computed on the basis of remaining data acquired outside the daytime time parameters.

Maximum and minimum temperatures are obtained at a sampling point, meaning that they reflect a temperature value (Max or Min) which could have occurred for as short a time as a five-minute interval during the month. These temperature data reflect microclimate thermal variance at the site.

System cold-water inlet temperatures are provided for sites with domestic hot water systems. These data are most representative under flow conditions. Some elevation of this temperature can be expected if the sensor is mounted near the hot water heating equipment or in the outdoor environment. These temperatures represent average daily values of DHW cold-water inlet temperature, not necessarily the groundwater temperature provided by municipalities or private wells to the system. For sites with reasonable DHW consumption these temperatures should approximate local soil temperatures.

Wind

The wind data are presented as averages of speed and direction for the 24-hour period, averages of speed and direction for the daytime, and maximum speed for the 24-hour period, with corresponding direction and time of occurrence.

The daytime wind data are tabulated over the period from 30 minutes prior to sunrise to 30 minutes after sunset. Wind speed is in miles per hour and wind direction is expressed in common convention used by the National Weather Service (NWS), where the angle or compass heading refers to the direction from which the wind is blowing. Thus, a tabular entry of 315° indicates that the wind is blowing from the Northwest.

The second page of wind data presents a frequency distribution of wind speeds, giving the number of hours in each velocity interval.

The anemometers in the NSDN are placed to measure the wind at the collector array and thus may not be fully representative of regional wind resources because some sensors may be in the turbulent wake of an object or otherwise shielded from the wind.

Relative Humidity

Relative humidity is measured at some of the solar sites because this is one of the parameters used in studies of atmospheric corrosion. Site selection was based on the availability of SDAS channels, rather than on environmental factors.

These relative humidity data are presented for those sites for which data is available.

OTHER PUBLICATIONS

These environmental data reports will be issued monthly and will include all sites which are transmitting valid data at the time of publication.

Previous reports are:

SOLAR/0010-78/09, September 1978
SOLAR/0010-78/10, October 1978
SOLAR/0010-78/11, November 1978
SOLAR/0010-78/12, December 1978
SOLAR/0010-79/01, January 1979
SOLAR/0010-79/02, February 1979
SOLAR/0010-79/03, March 1979
SOLAR/0010-79/04, April 1979
SOLAR/0010-79/05, May 1979
SOLAR/0010-79/06, June 1979
SOLAR/0010-79/07, July 1979
SOLAR/0010-79/08, August 1979
SOLAR/0010-79/09, September 1979
SOLAR/0010-79/10, October 1979
SOLAR/0010-79/11, November 1979
SOLAR/0010-79/12, December 1979
SOLAR/0010-80/01, January 1980
SOLAR/0010-80/02, February 1980
SOLAR/0010-80/03, March 1980
SOLAR/0010-80/04, April 1980
SOLAR/0010-80/05, May 1980
SOLAR/0010-80/06, June 1980
SOLAR/0010-80/07, July 1980
SOLAR/0010-80/08, August 1980
SOLAR/0010-80/09, September 1980
SOLAR/0010-80/10, October 1980
SOLAR/0010-80/11, November 1980
SOLAR/0010-80/12, December 1980
SOLAR/0010-81/01, January 1981
SOLAR/0010-81/02, February 1981
SOLAR/0010-81/03, March 1981
SOLAR/0010-81/04, April 1981
SOLAR/0010-81/05, May 1981
SOLAR/0010-81/06, June 1981



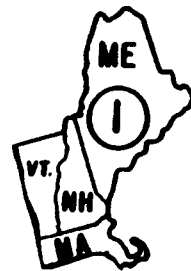
NATIONAL SOLAR DATA NETWORK

ENVIRONMENTAL DATA TABLES

13

* denotes data missing due to sensor failure or transmission problems.
N.A. denotes data for this parameter not measured at this site.

ZONE 1



ENVIRONMENTAL SUMMARY REPORT

SITE: CATHEDRAL SQUARE
BURLINGTON, VERMONT

REPORT PERIOD: 81/ 7
SITE NUMBER: 168

LATITUDE: 44.00 DEG NORTH
LONGITUDE: 73.00 DEG WEST

AZIMUTH: 42 DEG
PYRANOMETER TILT: 44 DEG

TIME ZONE: EASTERN
ALTITUDE: 200 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1683.	N.A.	N.A.	317.	14:43	3169.	53.
2	1647.	N.A.	N.A.	328.	13:57	3170.	52.
3	1225.	N.A.	N.A.	328.	12:55	3170.	39.
4	1075.	N.A.	N.A.	229.	13:54	3171.	34.
5	1384.	N.A.	N.A.	328.	14:41	3170.	44.
6	1543.	N.A.	N.A.	292.	12:28	3171.	49.
7	1843.	N.A.	N.A.	297.	13:40	3173.	58.
8	1996.	N.A.	N.A.	303.	13:21	3171.	63.
9	1029.	N.A.	N.A.	258.	11:24	3173.	32.
10	2003.	N.A.	N.A.	309.	13:26	3171.	63.
11	1935.	N.A.	N.A.	306.	13:36	3175.	61.
12	1485.	N.A.	N.A.	309.	14:32	3176.	47.
13	1102.	N.A.	N.A.	306.	13:22	3176.	35.
14	348.	N.A.	N.A.	130.	14: 7	3175.	11.
15	2032.	N.A.	N.A.	311.	13:21	3176.	64.
16	1771.	N.A.	N.A.	345.	13:20	3179.	56.
17	1554.	N.A.	N.A.	311.	12:45	3177.	49.
18	826.	N.A.	N.A.	314.	14:16	3177.	26.
19	*	N.A.	N.A.	*	*:*	3180.	*
20	343.	N.A.	N.A.	85.	9:29	3180.	11.
21	708.	N.A.	N.A.	235.	10:35	3180.	22.
22	1976.	N.A.	N.A.	339.	13:28	3181.	62.
23	2023.	N.A.	N.A.	314.	13:33	3180.	64.
24	1900.	N.A.	N.A.	311.	13:23	3183.	60.
25	1743.	N.A.	N.A.	300.	13: 7	3183.	55.
26	1347.	N.A.	N.A.	320.	13:19	3182.	42.
27	2046.	N.A.	N.A.	317.	13:24	3184.	64.
28	862.	N.A.	N.A.	252.	11: 3	3183.	27.
29	137.	N.A.	N.A.	34.	11:37	3185.	4.
30	1906.	N.A.	N.A.	303.	13:29	3185.	60.
31	1952.	N.A.	N.A.	308.	13:15	3184.	61.
MEAN	1447.	N.A.	N.A.			3177.	
STANDARD DEVIATION	564.	N.A.	N.A.			5.	

ENVIRONMENTAL SUMMARY REPORT

**SITE: CATHEDRAL SQUARE
BURLINGTON, VERMONT**

**REPORT PERIOD: 81/ 7
SITE NUMBER: 168**

**LATITUDE: 44.00 DEG NORTH
LONGITUDE: 73.00 DEG WEST**

**AZIMUTH: 42 DEG
PYRANOMETER TILT: 44 DEG**

**TIME ZONE: EASTERN
ALTITUDE: 200 FEET**

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	77.	80.	73.	90.	14:43	66.	4:41	67.
2	78.	80.	76.	88.	13:30	69.	1: 9	64.
3	73.	73.	73.	80.	12:55	68.	11: 8	66.
4	73.	74.	72.	78.	14: 4	69.	0:28	69.
5	74.	78.	70.	88.	14:41	66.	3:30	70.
6	76.	78.	75.	88.	11:51	67.	4:44	67.
7	79.	81.	76.	87.	14: 2	70.	23:18	67.
8	82.	85.	78.	93.	14:41	69.	1:26	69.
9	81.	85.	78.	96.	13:53	74.	23:55	70.
10	79.	82.	76.	90.	13:58	68.	3:50	69.
11	80.	83.	77.	91.	13:52	68.	4:48	69.
12	77.	78.	75.	92.	16: 2	63.	5:15	69.
13	72.	73.	71.	85.	14:21	65.	3:52	71.
14	64.	63.	64.	69.	0:21	58.	7:17	69.
15	71.	73.	69.	81.	14:30	58.	3:39	67.
16	74.	76.	71.	87.	13:25	59.	5: 4	72.
17	75.	79.	72.	90.	13:44	64.	4:40	73.
18	68.	68.	69.	79.	14:48	63.	12: 8	73.
19	78.	80.	77.	87.	13:35	72.	23:37	71.
20	72.	74.	70.	77.	9:40	68.	20:38	73.
21	73.	76.	70.	82.	11:12	61.	23:57	74.
22	69.	72.	66.	77.	14:27	60.	0:29	67.
23	67.	71.	64.	78.	10: 0	57.	4: 8	70.
24	69.	71.	67.	83.	15: 4	53.	4:45	71.
25	73.	75.	71.	82.	13:55	62.	4:19	73.
26	73.	75.	71.	79.	12:52	67.	4:19	75.
27	70.	72.	69.	77.	15:32	64.	23:56	72.
28	64.	69.	60.	77.	12:44	57.	3:56	72.
29	58.	58.	58.	60.	7:15	57.	12:46	71.
30	69.	71.	67.	82.	14: 1	57.	3:47	70.
31	73.	75.	71.	87.	15:55	58.	4:43	72.
MEAN	73.	75.	71.					70.
STANDARD DEVIATION	5.3	5.9	4.9					2.5

ENVIRONMENTAL SUMMARY REPORT

SITE: CONCORD MUNICIPAL LIGHT
CONCORD, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 189

LATITUDE: 42.47 DEG NORTH
LONGITUDE: 71.35 DEG WEST

AZIMUTH: -14 DEG
PYRANOMETER TILT: 57 DEG

TIME ZONE: EASTERN
ALTITUDE: 125 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1292.	N.A.	N.A.	340.	11:35	2432.	53.
2	826.	N.A.	N.A.	227.	13:38	2435.	34.
3	808.	N.A.	N.A.	308.	12:33	2438.	33.
4	927.	N.A.	N.A.	209.	10: 4	2439.	38.
5	325.	N.A.	N.A.	190.	12: 0	2443.	13.
6	1441.	N.A.	N.A.	293.	11:23	2447.	59.
7	1734.	N.A.	N.A.	290.	11:44	2452.	71.
8	1906.	N.A.	N.A.	280.	11:11	2456.	78.
9	1818.	N.A.	N.A.	280.	11:20	2461.	74.
10	1975.	N.A.	N.A.	290.	11:17	2467.	80.
11	1847.	N.A.	N.A.	293.	11:44	2472.	75.
12	1661.	N.A.	N.A.	305.	10:58	2478.	67.
13	841.	N.A.	N.A.	268.	9:59	2482.	34.
14	1516.	N.A.	N.A.	321.	11:13	2489.	61.
15	1880.	N.A.	N.A.	305.	12:30	2495.	75.
16	1999.	N.A.	N.A.	293.	11:15	2502.	80.
17	1816.	N.A.	N.A.	321.	12: 9	2507.	72.
18	1525.	N.A.	N.A.	302.	12:29	2517.	61.
19	1566.	N.A.	N.A.	308.	10:38	2525.	62.
20	396.	N.A.	N.A.	240.	9:50	2531.	16.
21	1286.	N.A.	N.A.	290.	11: 2	2539.	51.
22	1175.	N.A.	N.A.	308.	12:25	2545.	46.
23	2027.	N.A.	N.A.	296.	11: 6	2554.	79.
24	1928.	N.A.	N.A.	308.	11:17	2563.	75.
25	1795.	N.A.	N.A.	321.	10:57	2572.	70.
26	1401.	N.A.	N.A.	305.	11:43	2582.	54.
27	1890.	N.A.	N.A.	312.	10:55	2591.	73.
28	1818.	N.A.	N.A.	293.	10:56	2599.	70.
29	345.	N.A.	N.A.	109.	10:49	2609.	13.
30	1281.	N.A.	N.A.	324.	11:27	2616.	49.
31	2001.	N.A.	N.A.	293.	11:28	2630.	76.
MEAN	1453.	N.A.	N.A.			2512.	
STANDARD DEVIATION	518.	N.A.	N.A.			61.	

ENVIRONMENTAL SUMMARY REPORT

SITE: CONCORD MUNICIPAL LIGHT
CONCORD, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 189

LATITUDE: 42.47 DEG NORTH AZIMUTH: -14 DEG TIME ZONE: EASTERN
LONGITUDE: 71.35 DEG WEST PYRANOMETER TILT: 57 DEG ALTITUDE: 125 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	70.	78.	63.	87.	13:43	60.	2:58	N.A.
2	70.	76.	64.	88.	15:41	63.	2:47	N.A.
3	73.	79.	68.	89.	13:21	64.	2:47	N.A.
4	75.	81.	70.	89.	14:52	68.	21:59	N.A.
5	70.	72.	69.	77.	12:16	68.	22:40	N.A.
6	76.	84.	70.	95.	16:48	66.	2:46	N.A.
7	79.	90.	70.	97.	15: 4	65.	4:11	N.A.
8	82.	93.	73.	99.	14:55	62.	3: 0	N.A.
9	84.	94.	76.	101.	15:20	70.	4: 2	N.A.
10	79.	88.	71.	95.	16:54	64.	23:49	N.A.
11	77.	88.	67.	97.	16:27	59.	4:16	N.A.
12	77.	88.	67.	101.	14:37	61.	2:29	N.A.
13	74.	81.	68.	89.	11:19	63.	23:35	N.A.
14	68.	73.	64.	77.	12:55	60.	23:58	N.A.
15	70.	81.	61.	88.	16:35	55.	4:35	N.A.
16	72.	85.	61.	98.	17: 7	52.	4:46	N.A.
17	75.	88.	64.	96.	15: 5	56.	4: 9	N.A.
18	75.	86.	65.	97.	12:34	61.	4:50	N.A.
19	72.	80.	64.	95.	15:53	59.	4:41	N.A.
20	71.	74.	68.	80.	9:55	65.	1:29	N.A.
21	76.	81.	72.	95.	13:53	70.	23:48	N.A.
22	70.	77.	64.	84.	14:23	55.	23:44	N.A.
23	68.	80.	57.	90.	16:32	50.	4: 0	N.A.
24	67.	79.	56.	90.	16: 0	50.	4:11	N.A.
25	70.	81.	59.	90.	13:58	51.	4:43	N.A.
26	72.	80.	64.	91.	13:13	58.	2:46	N.A.
27	73.	81.	67.	85.	15:37	55.	23:38	N.A.
28	67.	77.	59.	90.	14:35	49.	4:36	N.A.
29	62.	63.	61.	68.	6:54	56.	23:48	N.A.
30	65.	74.	58.	86.	16:52	55.	23:50	N.A.
31	72.	86.	58.	101.	16:22	50.	4:22	N.A.
MEAN	73.	81.	65.					N.A.
STANDARD DEVIATION	4.9	6.6	5.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 36
 MEDWAY, MASSACHUSETTS

REPORT PERIOD: 81/ 7
 SITE NUMBER: 83

LATITUDE: 42.00 DEG NORTH
 LONGITUDE: 71.00 DEG WEST

AZIMUTH: 0 DEG
 PYRANOMETER TILT: 58 DEG

TIME ZONE: EASTERN
 ALTITUDE: 200 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	1373.	N.A.	N.A.	282.	11:34	2317.	59.
2	871.	N.A.	N.A.	251.	12:35	2320.	38.
3	901.	N.A.	N.A.	254.	11:56	2324.	39.
4	792.	N.A.	N.A.	172.	9:36	2328.	34.
5	565.	N.A.	N.A.	166.	10: 8	2332.	24.
6	1418.	N.A.	N.A.	251.	12:21	2334.	61.
7	1624.	N.A.	N.A.	245.	11:44	2339.	69.
8	1729.	N.A.	N.A.	248.	11:25	2344.	74.
9	1676.	N.A.	N.A.	251.	11:11	2349.	71.
10	1725.	N.A.	N.A.	251.	11:19	2355.	73.
11	1731.	N.A.	N.A.	257.	11:39	2361.	73.
12	1596.	N.A.	N.A.	263.	11:15	2367.	67.
13	642.	N.A.	N.A.	154.	14:16	2372.	27.
14	1216.	N.A.	N.A.	282.	11:40	2379.	51.
15	1709.	N.A.	N.A.	270.	12:50	2386.	72.
16	1787.	N.A.	N.A.	257.	11:33	2394.	75.
17	1304.	N.A.	N.A.	260.	10:47	2401.	54.
18	1413.	N.A.	N.A.	273.	11:35	2409.	59.
19	1520.	N.A.	N.A.	260.	11:46	2415.	63.
20	384.	N.A.	N.A.	169.	9:49	2424.	16.
21	1292.	N.A.	N.A.	257.	11:59	2431.	53.
22	1079.	N.A.	N.A.	276.	11:27	2440.	44.
23	1813.	N.A.	N.A.	260.	11:16	2449.	74.
24	1539.	N.A.	N.A.	282.	11:28	2459.	63.
25	1410.	N.A.	N.A.	273.	11:30	2469.	57.
26	1374.	N.A.	N.A.	273.	11:33	2477.	55.
27	1705.	N.A.	N.A.	266.	11:12	2487.	69.
28	1698.	N.A.	N.A.	270.	10:46	2498.	68.
29	729.	N.A.	N.A.	179.	10:26	2509.	29.
30	1339.	N.A.	N.A.	282.	11:42	2517.	53.
31	1884.	N.A.	N.A.	263.	11:11	2529.	74.
MEAN	1350.	N.A.	N.A.			2404.	
STANDARD DEVIATION	412.	N.A.	N.A.			65.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 36
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 83

LATITUDE: 42.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 58 DEG ALTITUDE: 200 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	74.	84.	65.	98.	16:11	60.	4:27	81.
2	72.	78.	67.	93.	14: 5	63.	3:25	80.
3	74.	79.	69.	90.	13:21	63.	4:27	79.
4	73.	77.	69.	84.	11:55	67.	23:28	76.
5	70.	81.	68.	78.	12:11	67.	22:35	78.
6	77.	83.	72.	97.	15:23	66.	2:24	76.
7	80.	88.	74.	97.	14:15	68.	23:57	77.
8	81.	89.	75.	97.	15:46	64.	2:10	79.
9	84.	90.	79.	99.	16:15	71.	4: 4	84.
10	81.	87.	76.	102.	16:39	67.	23:55	86.
11	79.	87.	71.	102.	15: 1	63.	4:11	87.
12	78.	86.	71.	97.	14:59	62.	4:37	87.
13	73.	78.	69.	88.	16:24	61.	23:40	84.
14	68.	72.	64.	78.	13:38	61.	3:19	80.
15	70.	77.	64.	89.	15:52	56.	4: 8	82.
16	71.	80.	65.	93.	16: 7	57.	4:32	79.
17	75.	85.	67.	101.	14:31	55.	4:23	82.
18	74.	83.	66.	97.	12:55	60.	3:35	82.
19	75.	83.	67.	105.	16: 2	57.	4:12	85.
20	71.	74.	69.	83.	10:48	66.	20: 4	81.
21	76.	81.	72.	91.	13:46	70.	0: 4	79.
22	73.	78.	68.	93.	13:13	60.	23:58	82.
23	70.	80.	62.	100.	15:10	53.	4:52	78.
24	70.	79.	62.	95.	16:22	54.	4:54	81.
25	69.	77.	62.	89.	12:18	54.	4:10	81.
26	71.	78.	64.	88.	12:53	55.	4: 2	82.
27	74.	80.	68.	87.	14:56	57.	23:34	79.
28	68.	76.	60.	94.	14:30	49.	4:49	80.
29	65.	69.	62.	78.	12:29	56.	23:26	78.
30	66.	73.	60.	93.	15:26	56.	0: 4	75.
31	72.	83.	63.	104.	15: 0	51.	4:25	80.
MEAN	73.	80.	67.					81.
STANDARD DEVIATION	4.6	5.4	4.7					3.0

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 73
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 84

LATITUDE: 42.00 DEG NORTH
LONGITUDE: 71.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 200 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1676.	N.A.	N.A.	318.	11:28	2855.	59.
2	952.	N.A.	N.A.	305.	12:34	2857.	33.
3	960.	N.A.	N.A.	295.	13:27	2859.	34.
4	811.	N.A.	N.A.	184.	9:36	2861.	28.
5	556.	N.A.	N.A.	161.	10: 6	2864.	19.
6	1616.	N.A.	N.A.	292.	12:25	2866.	56.
7	1890.	N.A.	N.A.	279.	11:42	2869.	66.
8	2009.	N.A.	N.A.	282.	11:48	2873.	70.
9	1899.	N.A.	N.A.	292.	11:46	2876.	66.
10	2092.	N.A.	N.A.	292.	11:32	2879.	73.
11	2018.	N.A.	N.A.	289.	11:38	2883.	70.
12	1853.	N.A.	N.A.	305.	11:18	2887.	64.
13	642.	N.A.	N.A.	187.	11: 2	2891.	22.
14	1298.	N.A.	N.A.	322.	12:12	2895.	45.
15	1970.	N.A.	N.A.	318.	12:17	2900.	68.
16	2026.	N.A.	N.A.	299.	12: 4	2904.	70.
17	1443.	N.A.	N.A.	302.	11: 7	2909.	50.
18	1520.	N.A.	N.A.	312.	11:41	2914.	52.
19	1742.	N.A.	N.A.	315.	12:47	2919.	60.
20	347.	N.A.	N.A.	187.	9:46	2924.	12.
21	1367.	N.A.	N.A.	285.	11:22	2929.	47.
22	1216.	N.A.	N.A.	338.	10:49	2935.	41.
23	2103.	N.A.	N.A.	299.	11:12	2941.	72.
24	1845.	N.A.	N.A.	315.	11:28	2946.	63.
25	1496.	N.A.	N.A.	312.	12:19	2952.	51.
26	1506.	N.A.	N.A.	295.	11:35	2958.	51.
27	1899.	N.A.	N.A.	299.	11:14	2962.	64.
28	1869.	N.A.	N.A.	322.	13: 2	2968.	63.
29	758.	N.A.	N.A.	246.	11:31	2974.	25.
30	1462.	N.A.	N.A.	318.	11:58	2981.	49.
31	2146.	N.A.	N.A.	295.	11:12	2988.	72.
MEAN	1516.	N.A.	N.A.			2910.	
STANDARD DEVIATION	511.	N.A.	N.A.			41.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 73
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 84

LATITUDE: 42.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: EASTERN
ALTITUDE: 200 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	68.	74.	62.	81.	10:29	58.	4: 0	73.
2	68.	71.	64.	78.	13:16	62.	1:32	74.
3	73.	77.	68.	89.	10:36	62.	0: 2	73.
4	75.	80.	69.	90.	11: 6	68.	22:24	75.
5	70.	72.	69.	76.	12:20	67.	21:40	75.
6	81.	92.	71.	101.	10: 1	65.	4:14	77.
7	83.	96.	70.	104.	12: 9	63.	4:20	80.
8	85.	98.	72.	107.	10:28	60.	3:54	82.
9	89.	102.	77.	109.	9:44	66.	4: 2	82.
10	82.	92.	73.	99.	11:38	65.	21:25	80.
11	82.	96.	68.	106.	10: 2	57.	4: 5	81.
12	77.	88.	67.	101.	12:22	58.	4:10	80.
13	75.	82.	68.	90.	11:12	61.	23:40	78.
14	71.	79.	64.	90.	9:58	59.	3:45	77.
15	74.	86.	62.	96.	10:41	53.	4:17	75.
16	74.	92.	60.	100.	10: 1	48.	4:30	77.
17	77.	92.	62.	104.	9:36	51.	4:27	76.
18	75.	87.	62.	104.	10:21	56.	4: 8	77.
19	73.	81.	65.	95.	11:16	57.	4:13	77.
20	71.	73.	68.	83.	9:51	65.	0:20	77.
21	79.	85.	72.	97.	12:10	70.	0:15	76.
22	73.	80.	66.	89.	12:25	54.	23:55	77.
23	70.	83.	57.	92.	11:49	47.	4:16	76.
24	68.	81.	56.	93.	11:17	47.	3:49	75.
25	70.	81.	59.	95.	9:23	52.	2:21	76.
26	69.	77.	62.	87.	13:11	52.	4: 3	75.
27	77.	88.	67.	98.	11: 3	52.	23:58	76.
28	68.	79.	58.	89.	11:21	46.	4:41	74.
29	66.	70.	62.	82.	8:51	57.	23:58	74.
30	66.	74.	58.	84.	12: 9	51.	23:55	73.
31	74.	91.	58.	100.	10:30	46.	4:22	73.
MEAN	74.	84.	65.					76.
STANDARD DEVIATION	5.9	8.5	5.4					2.5

ENVIRONMENTAL SUMMARY REPORT

SITE: TECHNOLOGY PROPERTIES TRUST
BURLINGTON, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 146

LATITUDE: 42.50 DEG NORTH
LONGITUDE: 71.00 DEG WEST

AZIMUTH: -21 DEG
PYRANOMETER TILT: 60 DEG

TIME ZONE: EASTERN
ALTITUDE: 180 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1351.	N.A.	N.A.	350.	11:21	2363.	57.
2	884.	N.A.	N.A.	238.	13:12	2366.	37.
3	828.	N.A.	N.A.	291.	11:22	2370.	35.
4	801.	N.A.	N.A.	209.	10:14	2373.	34.
5	359.	N.A.	N.A.	247.	12:30	2375.	15.
6	1197.	N.A.	N.A.	284.	11:47	2382.	50.
7	1629.	N.A.	N.A.	275.	10:27	2387.	68.
8	1870.	N.A.	N.A.	288.	11:24	2392.	78.
9	1836.	N.A.	N.A.	281.	11:12	2397.	77.
10	2021.	N.A.	N.A.	294.	10:27	2400.	84.
11	1832.	N.A.	N.A.	288.	11:27	2406.	76.
12	1592.	N.A.	N.A.	284.	11:35	2412.	66.
13	827.	N.A.	N.A.	297.	10:20	2416.	34.
14	1360.	N.A.	N.A.	322.	11:32	2423.	56.
15	1844.	N.A.	N.A.	294.	11:34	2430.	76.
16	2059.	N.A.	N.A.	300.	10:31	2437.	84.
17	1843.	N.A.	N.A.	300.	11:16	2445.	75.
18	1532.	N.A.	N.A.	300.	10:21	2453.	62.
19	1595.	N.A.	N.A.	306.	11:13	2459.	65.
20	359.	N.A.	N.A.	138.	9:58	2467.	15.
21	1195.	N.A.	N.A.	300.	11: 6	2476.	48.
22	1028.	N.A.	N.A.	306.	11:22	2485.	41.
23	2023.	N.A.	N.A.	303.	11:33	2494.	81.
24	1824.	N.A.	N.A.	300.	10: 0	2501.	73.
25	1506.	N.A.	N.A.	319.	10: 8	2511.	60.
26	1385.	N.A.	N.A.	266.	11:34	2518.	55.
27	1869.	N.A.	N.A.	309.	10:46	2528.	74.
28	1845.	N.A.	N.A.	316.	11:12	2539.	73.
29	291.	N.A.	N.A.	72.	11:13	2549.	11.
30	1284.	N.A.	N.A.	319.	12:37	2557.	50.
31	2074.	N.A.	N.A.	297.	10:50	2568.	81.
MEAN	1418.	N.A.	N.A.			2448.	
STANDARD DEVIATION	526.	N.A.	N.A.			63.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TECHNOLOGY PROPERTIES TRUST
BURLINGTON, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 146

LATITUDE: 42.50 DEG NORTH AZIMUTH: -21 DEG TIME ZONE: EASTERN
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 180 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	70.	77.	63.	88.	13:35	60.	3: 0	N.A.
2	69.	75.	64.	85.	15: 4	63.	0:56	N.A.
3	74.	80.	68.	89.	12:48	63.	0:10	N.A.
4	75.	80.	71.	85.	10:51	68.	21: 4	N.A.
5	71.	72.	69.	78.	12:30	68.	3:55	N.A.
6	78.	86.	72.	93.	14:43	68.	3:47	N.A.
7	82.	92.	73.	98.	12:35	67.	23:56	N.A.
8	84.	94.	75.	100.	14:20	64.	2:26	N.A.
9	86.	95.	78.	100.	14:14	71.	23:37	N.A.
10	81.	89.	75.	94.	14:54	70.	23:59	N.A.
11	80.	90.	72.	95.	12:58	63.	2:50	N.A.
12	79.	87.	71.	95.	13:22	64.	5:19	N.A.
13	74.	80.	68.	89.	10:20	63.	19:54	N.A.
14	70.	75.	66.	78.	10:50	62.	23:44	N.A.
15	72.	81.	65.	86.	13:15	59.	4:16	N.A.
16	75.	86.	66.	93.	13:54	56.	4:33	N.A.
17	78.	89.	69.	100.	13:40	60.	4:36	N.A.
18	76.	86.	67.	98.	12: 3	63.	23:57	N.A.
19	73.	82.	65.	91.	14:41	60.	2:37	N.A.
20	71.	74.	69.	79.	10: 9	67.	0:54	N.A.
21	77.	82.	73.	93.	13:35	71.	0: 5	N.A.
22	73.	79.	68.	86.	13:51	60.	23:54	N.A.
23	70.	81.	60.	90.	15: 6	52.	3:44	N.A.
24	69.	80.	59.	87.	14:26	51.	4:40	N.A.
25	70.	80.	61.	87.	10: 8	52.	3:38	N.A.
26	74.	81.	67.	90.	14:14	61.	4:58	N.A.
27	75.	82.	70.	86.	11:29	61.	23:44	N.A.
28	70.	78.	62.	86.	12:59	52.	4:37	N.A.
29	62.	63.	62.	69.	6:51	57.	21:14	N.A.
30	67.	75.	60.	83.	15:12	57.	23:54	N.A.
31	74.	87.	62.	97.	15:11	52.	4:31	N.A.
MEAN	74.	82.	67.					N.A.
STANDARD DEVIATION	5.2	6.8	5.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: TECHNOLOGY PROPERTIES TRUST
BURLINGTON, MASSACHUSETTS

REPORT PERIOD: 81/ 7
SITE NUMBER: 146

LATITUDE: 42.50 DEG NORTH AZIMUTH: -21 DEG TIME ZONE: EASTERN
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 180 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	121.	2.	123.	3.	7.	117.	14:12
2	112.	2.	117.	4.	8.	128.	15:20
3	*	1.	*	2.	5.	*	14:14
4	*	1.	*	2.	6.	*	15: 2
5	196.	2.	268.	2.	8.	294.	14:22
6	*	2.	*	2.	5.	*	15:31
7	*	2.	*	3.	6.	*	16:55
8	275.	4.	277.	6.	12.	278.	16:23
9	282.	3.	285.	4.	8.	295.	11:55
10	282.	2.	280.	3.	6.	291.	12:51
11	289.	2.	288.	3.	7.	286.	11: 0
12	*	1.	*	1.	3.	*	16:50
13	*	1.	*	1.	7.	*	19:27
14	297.	4.	299.	6.	9.	297.	12:58
15	299.	3.	300.	5.	9.	290.	14:56
16	*	2.	*	3.	6.	*	13:11
17	*	1.	*	2.	5.	*	14:44
18	*	1.	*	2.	8.	*	20: 8
19	*	1.	*	2.	5.	*	17:37
20	162.	2.	162.	3.	9.	165.	2:57
21	222.	2.	250.	2.	8.	244.	15:17
22	*	2.	*	2.	4.	*	14:34
23	*	1.	*	2.	5.	*	12:16
24	*	1.	*	1.	4.	*	18:29
25	*	1.	*	2.	6.	*	15: 6
26	*	2.	*	2.	5.	*	23:29
27	280.	3.	292.	5.	8.	310.	15:13
28	159.	2.	155.	2.	8.	150.	23:18
29	*	2.	*	2.	7.	*	13:26
30	*	2.	*	2.	5.	*	11:17
31	*	1.	*	1.	4.	*	7:43
MEAN	256.	2.	268.	3.			
STANDARD DEVIATION	75.7	0.8	77.1	1.2			

ENVIRONMENTAL SUMMARY REPORT

SITE: TECHNOLOGY PROPERTIES TRUST
BURLINGTON, MASSACHUSETTS

REPORT PERIOD: 8/ 7
SITE NUMBER: 146

LATITUDE: 42.50 DEG NORTH
LONGITUDE: 71.00 DEG WEST

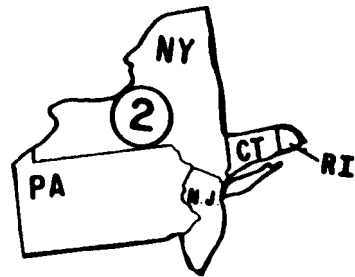
AZIMUTH: -21 DEG
PYRANOMETER TILT: 60 DEG

TIME ZONE: EASTERN
ALTITUDE: 180 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	20	4	0	0	0	0	0	0	0
2	20	4	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	22	2	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	24	0	0	0	0	0	0	0	0
8	14	9	1	0	0	0	0	0	0
9	20	4	0	0	0	0	0	0	0
10	22	2	0	0	0	0	0	0	0
11	23	1	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	13	1	0	0	0	0	0	0	0
15	15	9	0	0	0	0	0	0	0
16	22	2	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	23	1	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	22	2	0	0	0	0	0	0	0
21	22	2	0	0	0	0	0	0	0
22	24	0	0	0	0	0	0	0	0
23	24	0	0	0	0	0	0	0	0
24	24	0	0	0	0	0	0	0	0
25	22	2	0	0	0	0	0	0	0
26	24	0	0	0	0	0	0	0	0
27	15	9	0	0	0	0	0	0	0
28	20	4	0	0	0	0	0	0	0
29	23	1	0	0	0	0	0	0	0
30	24	0	0	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	21.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	673	69	1	0	0	0	0	0	1

ZONE 2





ENVIRONMENTAL SUMMARY REPORT

SITE: BELL OF PENNSYLVANIA
WEST GOSHEN, PENNSYLVANIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 20

LATITUDE: 39.90 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 75.70 DEG WEST PYRANOMETER TILT: 55 DEG
TIME ZONE: EASTERN
ALTITUDE: 5 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	*	N.A.	N.A.	*	*:*	2359.	*
2	*	N.A.	N.A.	*	*:*	2360.	*
3	*	N.A.	N.A.	*	*:*	2363.	*
4	*	N.A.	N.A.	*	*:*	2367.	*
5	*	N.A.	N.A.	*	*:*	2371.	*
6	*	N.A.	N.A.	*	*:*	2375.	*
7	*	N.A.	N.A.	*	*:*	2380.	*
8	1646.	N.A.	N.A.	245.	11:29	2385.	69.
9	1513.	N.A.	N.A.	245.	11:55	2390.	63.
10	1627.	N.A.	N.A.	266.	12: 2	2396.	68.
11	1758.	N.A.	N.A.	260.	11:47	2400.	73.
12	1709.	N.A.	N.A.	251.	11:37	2406.	71.
13	1317.	N.A.	N.A.	269.	11:53	2412.	55.
14	1634.	N.A.	N.A.	272.	13: 0	2419.	68.
15	1610.	N.A.	N.A.	293.	12: 1	2424.	66.
16	871.	N.A.	N.A.	233.	9:55	2431.	36.
17	1471.	N.A.	N.A.	278.	12: 0	2439.	60.
18	1639.	N.A.	N.A.	257.	11:51	2447.	67.
19	1597.	N.A.	N.A.	251.	11:52	2455.	65.
20	816.	N.A.	N.A.	221.	12:29	2461.	33.
21	1245.	N.A.	N.A.	236.	13: 5	2470.	50.
22	1297.	N.A.	N.A.	296.	11:51	2479.	52.
23	1806.	N.A.	N.A.	278.	11:55	2488.	73.
24	1169.	N.A.	N.A.	275.	11:32	2497.	47.
25	711.	N.A.	N.A.	257.	10:12	2505.	28.
26	1010.	N.A.	N.A.	224.	13:19	2515.	40.
27	1399.	N.A.	N.A.	257.	12:31	2522.	55.
28	668.	N.A.	N.A.	209.	11:16	2533.	26.
29	1561.	N.A.	N.A.	278.	12: 9	2543.	61.
30	1857.	N.A.	N.A.	275.	11:31	2554.	73.
31	1854.	N.A.	N.A.	275.	12:10	2563.	72.
MEAN	1408.	N.A.	N.A.			2442.	
STANDARD DEVIATION	363.	N.A.	N.A.			63.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BELL OF PENNSYLVANIA
WEST GOSHEN, PENNSYLVANIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 20

LATITUDE: 39.90 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 75.70 DEG WEST PYRANOMETER TILT: 55 DEG TIME ZONE: EASTERN
ALTITUDE: 5 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	*	*	*	*	*:*	*	*:*	N.A.
2	*	*	*	*	*:*	*	*:*	N.A.
3	*	*	*	*	*:*	*	*:*	N.A.
4	*	*	*	*	*:*	*	*:*	N.A.
5	*	*	*	*	*:*	*	*:*	N.A.
6	*	*	*	*	*:*	*	*:*	N.A.
7	77.	*	77.	78.	23:29	76.	23:45	N.A.
8	82.	86.	78.	91.	15:39	71.	5:10	N.A.
9	84.	88.	81.	93.	14:51	76.	4:27	N.A.
10	82.	85.	80.	88.	13:33	75.	23:37	N.A.
11	78.	83.	75.	90.	15:31	66.	4:30	N.A.
12	81.	86.	76.	92.	15:37	68.	4: 3	N.A.
13	80.	83.	77.	90.	14:59	71.	4: 9	N.A.
14	77.	80.	74.	83.	15:30	67.	23:45	N.A.
15	72.	75.	69.	83.	15: 2	62.	5: 5	N.A.
16	72.	76.	69.	82.	13:55	63.	1:39	N.A.
17	76.	80.	72.	88.	16:48	66.	4:21	N.A.
18	78.	83.	73.	91.	14:41	65.	5:32	N.A.
19	81.	86.	76.	92.	14:32	67.	5:16	N.A.
20	78.	81.	76.	89.	14:48	71.	19:50	N.A.
21	78.	83.	75.	89.	14:41	71.	23:56	N.A.
22	72.	75.	70.	79.	15:56	64.	23:49	N.A.
23	69.	72.	67.	79.	16:48	58.	5: 9	N.A.
24	74.	76.	73.	81.	14:33	64.	7:10	N.A.
25	72.	75.	70.	78.	12:42	67.	6: 7	N.A.
26	77.	80.	74.	85.	13:40	68.	5:30	N.A.
27	77.	80.	75.	84.	15: 0	70.	23:54	N.A.
28	72.	73.	71.	77.	11:22	67.	2:23	N.A.
29	72.	76.	68.	79.	13:18	60.	23:47	N.A.
30	69.	74.	64.	82.	16:14	56.	4: 3	N.A.
31	73.	79.	67.	85.	15:11	59.	5:40	N.A.
MEAN	76.	80.	73.					N.A.
STANDARD DEVIATION	4.2	4.7	4.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: BROOKHAVEN NATIONAL LABORATORY
 UPTON, NEW YORK

REPORT PERIOD: 81/ 7
 SITE NUMBER: 214

LATITUDE: 40.50 DEG NORTH
 LONGITUDE: 72.75 DEG WEST

AZIMUTH: 0 DEG
 PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
 ALTITUDE: 20 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	924.	N.A.	N.A.	202.	10: 8	2799.	33.
2	1085.	N.A.	N.A.	257.	14: 8	2801.	39.
3	715.	N.A.	N.A.	224.	9: 55	2804.	25.
4	489.	N.A.	N.A.	134.	11: 38	2806.	17.
5	737.	N.A.	N.A.	250.	12: 22	2809.	26.
6	1434.	N.A.	N.A.	261.	12: 22	2812.	51.
7	1674.	N.A.	N.A.	250.	12: 17	2815.	59.
8	1688.	N.A.	N.A.	250.	12: 20	2819.	60.
9	1669.	N.A.	N.A.	243.	12: 26	2822.	59.
10	1777.	N.A.	N.A.	261.	13: 28	2826.	63.
11	1720.	N.A.	N.A.	261.	12: 26	2830.	61.
12	1602.	N.A.	N.A.	284.	13: 35	2834.	57.
13	1075.	N.A.	N.A.	246.	11: 54	2839.	38.
14	1822.	N.A.	N.A.	269.	12: 44	2840.	64.
15	1731.	N.A.	N.A.	276.	12: 38	2845.	61.
16	1720.	N.A.	N.A.	272.	13: 43	2850.	60.
17	*	N.A.	N.A.	*	*: *	2855.	*
18	1528.	N.A.	N.A.	254.	12: 28	2861.	53.
19	1485.	N.A.	N.A.	257.	12: 12	2866.	52.
20	216.	N.A.	N.A.	82.	9: 37	2872.	8.
21	1623.	N.A.	N.A.	243.	12: 26	2878.	56.
22	1714.	N.A.	N.A.	269.	12: 16	2884.	59.
23	1741.	N.A.	N.A.	272.	13: 10	2887.	60.
24	1311.	N.A.	N.A.	280.	13: 59	2893.	45.
25	1706.	N.A.	N.A.	280.	13: 57	2900.	59.
26	959.	N.A.	N.A.	269.	13: 22	2906.	33.
27	1750.	N.A.	N.A.	269.	12: 7	2913.	60.
28	1473.	N.A.	N.A.	257.	12: 56	2920.	50.
29	1532.	N.A.	N.A.	284.	12: 42	2927.	52.
30	1760.	N.A.	N.A.	295.	12: 41	2934.	60.
31	1668.	N.A.	N.A.	302.	12: 18	2941.	57.
MEAN	1411.	N.A.	N.A.			2858.	
STANDARD DEVIATION	432.	N.A.	N.A.			43.	

ENVIRONMENTAL SUMMARY REPORT

**SITE: BROOKHAVEN NATIONAL LABORATORY
UPTON, NEW YORK**

**REPORT PERIOD: 81/ 7
SITE NUMBER: 214**

**LATITUDE: 40.50 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 72.75 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 20 FEET**

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	73.	78.	68.	84.	10:13	64.	0: 5	74.
2	73.	76.	71.	79.	15:54	68.	6:34	77.
3	73.	76.	71.	81.	9:55	70.	2:54	76.
4	72.	73.	70.	76.	9:25	69.	18:55	77.
5	74.	76.	71.	83.	13: 5	69.	2:29	77.
6	79.	85.	73.	93.	11:45	68.	5:10	75.
7	83.	90.	76.	97.	12:38	70.	3:34	78.
8	86.	93.	80.	98.	11:16	70.	4:41	81.
9	88.	94.	82.	98.	11: 1	73.	5: 4	84.
10	83.	89.	78.	96.	12:24	71.	23:48	85.
11	83.	91.	75.	98.	12:47	68.	2:44	82.
12	80.	87.	73.	94.	10:34	68.	2:44	82.
13	80.	85.	76.	91.	12:21	72.	3:54	77.
14	78.	84.	72.	88.	12:12	67.	23:55	79.
15	76.	83.	69.	87.	12:54	65.	4:38	77.
16	78.	85.	70.	91.	10:31	64.	5: 0	78.
17	70.	*	70.	73.	19: 8	67.	23:56	81.
18	75.	82.	69.	92.	10:57	62.	2:57	80.
19	78.	84.	71.	96.	12: 6	66.	4:34	82.
20	74.	74.	74.	81.	9:42	67.	14:30	76.
21	79.	84.	73.	88.	10: 7	71.	22:14	76.
22	76.	82.	71.	88.	12:32	66.	22:14	78.
23	74.	81.	66.	86.	12:49	62.	21: 0	76.
24	72.	79.	66.	87.	11:24	62.	3:19	76.
25	71.	77.	65.	80.	11:44	63.	5: 4	79.
26	73.	76.	69.	80.	9:54	61.	1:52	80.
27	80.	87.	74.	93.	12:28	64.	23:42	77.
28	73.	78.	68.	86.	9:28	59.	2:59	77.
29	77.	83.	71.	89.	12:21	64.	23:59	77.
30	72.	79.	65.	84.	12:41	59.	5: 3	75.
31	73.	83.	63.	92.	10:53	56.	2:14	75.
MEAN	77.	83.	71.					78.
STANDARD DEVIATION	4.6	5.5	4.4					2.8

ENVIRONMENTAL SUMMARY REPORT

SITE: ENVIRONMENTAL PARTNERSHIP
CREAM RIDGE, NEW JERSEY

REPORT PERIOD: 81/ 7
SITE NUMBER: 149

LATITUDE: 40.00 DEG NORTH
LONGITUDE: 74.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: EASTERN
ALTITUDE: 100 FEET

DAY	INSOLATION						
	TOTAL INSOLATION BTU/FT2	TOTAL HORIZONTAL INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	*	*	N.A.	*	*:*	674.	*
2	*	*	N.A.	*	*:*	677.	*
3	*	*	N.A.	*	*:*	682.	*
4	*	*	N.A.	*	*:*	686.	*
5	161.	481.	N.A.	71.	9:24	692.	23.
6	230.	1244.	N.A.	45.	11:37	697.	33.
7	281.	1536.	N.A.	77.	9:55	702.	40.
8	*	*	N.A.	*	*:*	709.	*
9	340.	1305.	N.A.	74.	9:44	715.	48.
10	339.	1334.	N.A.	83.	13:50	723.	47.
11	524.	1440.	N.A.	115.	11:29	729.	72.
12	498.	1337.	N.A.	115.	10:54	738.	68.
13	407.	1202.	N.A.	93.	12:31	746.	55.
14	*	*	N.A.	*	*:*	754.	*
15	*	*	N.A.	*	*:*	763.	*
16	463.	1135.	N.A.	131.	11:49	772.	60.
17	354.	986.	N.A.	109.	10:53	782.	45.
18	535.	1101.	N.A.	106.	11:11	792.	68.
19	431.	1164.	N.A.	109.	12: 6	803.	54.
20	*	*	N.A.	*	*:*	813.	*
21	*	*	N.A.	*	*:*	825.	*
22	492.	1203.	N.A.	122.	11:45	836.	59.
23	*	*	N.A.	*	*:*	847.	*
24	367.	869.	N.A.	115.	10:39	860.	43.
25	459.	1043.	N.A.	96.	10:12	873.	53.
26	307.	839.	N.A.	93.	13:21	887.	35.
27	*	*	N.A.	*	*:*	899.	*
28	123.	405.	N.A.	42.	12:13	914.	13.
29	400.	930.	N.A.	128.	12:40	928.	43.
30	*	*	N.A.	*	*:*	942.	*
31	500.	1067.	N.A.	147.	12:25	958.	52.
MEAN	380.	1085.	N.A.			788.	
STANDARD DEVIATION	120.	292.	N.A.			87.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ENVIRONMENTAL PARTNERSHIP
CREAM RIDGE, NEW JERSEY

REPORT PERIOD: 81/ 7
SITE NUMBER: 149

LATITUDE: 40.00 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: EASTERN
LONGITUDE: 74.00 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 100 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	69.	78.	69.	78.	8:50	67.	3:52	74.
2	71.	70.	71.	73.	19:32	68.	0: 2	*
3	78.	83.	77.	85.	15:16	71.	23:32	*
4	72.	73.	72.	75.	14:12	70.	4:52	*
5	77.	79.	73.	82.	15:31	70.	5: 8	*
6	83.	90.	78.	94.	13:45	70.	3:31	*
7	84.	93.	77.	99.	14: 6	68.	4:46	75.
8	79.	*	79.	81.	19:52	76.	23:58	75.
9	85.	94.	80.	101.	15:20	74.	4:40	75.
10	82.	91.	78.	99.	14:59	70.	23:55	77.
11	78.	89.	72.	101.	15:13	63.	5:15	71.
12	81.	92.	75.	102.	15:54	69.	4:49	79.
13	85.	92.	78.	96.	13:40	74.	4:31	79.
14	73.	80.	73.	81.	8:18	65.	23:59	74.
15	67.	83.	64.	95.	15:21	60.	4:52	77.
16	73.	82.	68.	92.	13:41	58.	5: 9	*
17	78.	92.	73.	100.	14:32	69.	23:59	74.
18	72.	81.	67.	85.	11:11	65.	4:58	*
19	93.	97.	86.	102.	14:52	78.	21:58	71.
20	74.	*	74.	75.	22:23	74.	23: 6	*
21	77.	83.	76.	89.	11:38	74.	0:36	72.
22	74.	81.	70.	90.	13:42	65.	23:54	*
23	62.	66.	62.	66.	8: 0	56.	5: 4	*
24	70.	78.	66.	85.	15:16	59.	2: 2	*
25	71.	77.	68.	80.	11:38	65.	4:26	*
26	80.	85.	75.	90.	14:20	70.	3:22	*
27	75.	94.	73.	99.	14:36	66.	23:46	72.
28	72.	76.	70.	81.	16: 7	62.	1:54	70.
29	77.	85.	72.	95.	14:27	60.	23:46	68.
30	68.	82.	63.	93.	15:42	54.	5: 1	*
31	70.	83.	64.	94.	15:27	57.	4:47	72.
MEAN	76.	84.	72.					74.
STANDARD DEVIATION	6.5	7.6	5.5					3.1

ENVIRONMENTAL SUMMARY REPORT

SITE: ENVIRONMENTAL PARTNERSHIP
CREAM RIDGE, NEW JERSEY

REPORT PERIOD: 81/ 7
SITE NUMBER: 149

LATITUDE: 40.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 74.00 DEG WEST PYRANOMETER TILT: 89 DEG

TIME ZONE: EASTERN
ALTITUDE: 100 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM VALUE	HUMIDITY TIME HR:MN	MINIMUM VALUE	HUMIDITY TIME HR:MN
1	51.	47.	52.	57.	5:54	46.	9:33
2	58.	59.	58.	66.	3:41	47.	19:32
3	42.	38.	43.	60.	5: 8	31.	16: 9
4	66.	63.	66.	71.	23:32	55.	0: 4
5	60.	57.	66.	72.	1: 3	50.	18:11
6	43.	39.	46.	67.	7:31	34.	13: 2
7	44.	39.	48.	63.	7:15	32.	13:29
8	47.	0.	47.	52.	23:58	41.	19:58
9	49.	45.	50.	60.	6:27	37.	14:54
10	45.	40.	48.	58.	6:11	27.	14:27
11	41.	36.	44.	54.	7: 2	26.	14: 9
12	41.	36.	43.	59.	5:53	21.	15: 6
13	43.	41.	44.	57.	9:56	32.	13:24
14	44.	44.	44.	58.	5:54	25.	19:21
15	42.	38.	42.	51.	6:49	26.	16: 9
16	41.	37.	44.	55.	6:45	27.	13:25
17	44.	32.	47.	57.	6: 5	26.	14:11
18	57.	57.	57.	65.	7:54	47.	10:39
19	34.	32.	37.	46.	21:58	27.	13:16
20	62.	0.	62.	63.	23:54	59.	21:35
21	65.	65.	65.	77.	7:22	46.	17:46
22	51.	48.	53.	63.	6:19	37.	16:49
23	44.	49.	44.	51.	23:54	38.	20:10
24	49.	50.	49.	68.	7:54	30.	16:10
25	52.	48.	54.	62.	7:11	41.	11:38
26	54.	51.	59.	66.	5:56	46.	14:41
27	45.	37.	46.	68.	2:41	32.	16:12
28	51.	47.	53.	68.	22:53	41.	16:34
29	55.	46.	62.	73.	6:32	34.	14:43
30	44.	40.	46.	56.	7:25	29.	12:56
31	46.	44.	46.	67.	7:37	28.	17:40
MEAN	49.	45.	51.				
STANDARD DEVIATION	8.	9.	8.				

ENVIRONMENTAL SUMMARY REPORT

SITE: GIL HARROP
BIG FLATS, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 92

LATITUDE: 44.05 DEG NORTH
LONGITUDE: 77.21 DEG WEST

AZIMUTH: -10 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: EASTERN
ALTITUDE: 860 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	*	N.A.	N.A.	*	*:*	921.	*
2	550.	N.A.	N.A.	242.	8: 5	926.	59.
3	537.	N.A.	N.A.	126.	12:27	930.	58.
4	469.	N.A.	N.A.	100.	14:24	935.	50.
5	370.	N.A.	N.A.	142.	12:16	941.	39.
6	789.	N.A.	N.A.	142.	11: 5	946.	83.
7	874.	N.A.	N.A.	129.	11:59	951.	92.
8	*	N.A.	N.A.	*	*:*	958.	*
9	726.	N.A.	N.A.	132.	12:24	964.	75.
10	801.	N.A.	N.A.	187.	16:20	970.	83.
11	792.	N.A.	N.A.	132.	12:41	979.	81.
12	736.	N.A.	N.A.	132.	12:21	986.	75.
13	647.	N.A.	N.A.	142.	10:56	996.	65.
14	799.	N.A.	N.A.	158.	12:23	1004.	80.
15	701.	N.A.	N.A.	148.	11:37	1013.	69.
16	831.	N.A.	N.A.	171.	11:21	1022.	81.
17	717.	N.A.	N.A.	142.	12:39	1033.	69.
18	776.	N.A.	N.A.	145.	11:56	1041.	75.
19	453.	N.A.	N.A.	132.	13: 3	1053.	43.
20	308.	N.A.	N.A.	132.	13:51	1064.	29.
21	275.	N.A.	N.A.	132.	13:30	1075.	26.
22	699.	N.A.	N.A.	148.	11:27	1087.	64.
23	833.	N.A.	N.A.	155.	11:49	1099.	76.
24	602.	N.A.	N.A.	132.	10:11	1112.	54.
25	140.	N.A.	N.A.	32.	9:55	1125.	12.
26	44.	N.A.	N.A.	26.	8:35	1138.	4.
27	726.	N.A.	N.A.	151.	12: 9	1152.	63.
28	89.	N.A.	N.A.	39.	8:28	1166.	8.
29	163.	N.A.	N.A.	58.	15:47	1181.	14.
30	807.	N.A.	N.A.	142.	11:40	1194.	68.
31	784.	N.A.	N.A.	145.	12:37	1210.	65.
MEAN	587.	N.A.	N.A.			1038.	
STANDARD DEVIATION	253.	N.A.	N.A.			89.	

ENVIRONMENTAL SUMMARY REPORT

SITE: GIL HARROP
BIG FLATS, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 92

LATITUDE: 44.05 DEG NORTH AZIMUTH: -10 DEG
LONGITUDE: 77.21 DEG WEST PYRANOMETER TILT: 89 DEG
TIME ZONE: EASTERN
ALTITUDE: 860 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	62.	47.	64.	83.	18:53	47.	4:44	N.A.
2	76.	74.	77.	83.	1:50	66.	23:55	N.A.
3	70.	75.	67.	80.	13:58	61.	2:40	N.A.
4	69.	74.	66.	76.	12:54	62.	23:50	N.A.
5	67.	70.	65.	80.	12:16	61.	0: 6	N.A.
6	72.	81.	67.	87.	14:17	61.	5:40	N.A.
7	76.	87.	65.	92.	15:11	61.	2:44	N.A.
8	72.	84.	72.	84.	10: 2	70.	23:36	N.A.
9	80.	88.	75.	91.	14:32	67.	4:40	N.A.
10	76.	86.	70.	94.	16:20	60.	23:53	N.A.
11	72.	86.	64.	90.	14:43	53.	5: 7	N.A.
12	74.	85.	68.	91.	14: 2	60.	4:35	N.A.
13	76.	83.	71.	89.	13:14	64.	2: 8	N.A.
14	69.	74.	66.	79.	13: 6	61.	22:49	N.A.
15	69.	78.	63.	83.	13:29	52.	23:58	N.A.
16	67.	81.	59.	87.	15: 0	47.	4:41	N.A.
17	69.	81.	61.	87.	14:10	52.	5:11	N.A.
18	71.	84.	64.	89.	13: 0	54.	4:44	N.A.
19	72.	79.	68.	86.	13:30	61.	4:28	N.A.
20	73.	78.	70.	86.	14:34	67.	4:31	N.A.
21	71.	74.	69.	82.	13:40	64.	23:59	N.A.
22	64.	71.	60.	76.	14:18	47.	23:59	N.A.
23	60.	72.	52.	77.	14:50	43.	4:42	N.A.
24	62.	72.	56.	77.	15:47	45.	4:40	N.A.
25	66.	69.	65.	70.	10:59	63.	2: 0	N.A.
26	69.	70.	68.	72.	9: 1	64.	0: 3	N.A.
27	69.	75.	64.	79.	14:59	55.	22:58	N.A.
28	62.	65.	61.	68.	15:46	55.	0: 2	N.A.
29	61.	62.	61.	69.	16:30	49.	23:14	N.A.
30	64.	77.	56.	84.	14:52	47.	4:44	N.A.
31	67.	80.	59.	86.	17: 3	50.	3:27	N.A.
MEAN	69.	76.	65.					N.A.
STANDARD DEVIATION	5.0	8.5	5.6					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: GIL HARROP
BIG FLATS, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 92

LATITUDE: 44.05 DEG NORTH AZIMUTH: -10 DEG TIME ZONE: EASTERN
LONGITUDE: 77.21 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 860 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	*	2.	*	3.	10.	*	16: 6
2	*	1.	*	1.	10.	*	12:48
3	*	0.	*	0.	5.	*	1: 4
4	*	0.	*	0.	4.	*	14:40
5	*	0.	*	1.	8.	*	13:19
6	*	*	*	*	*	*	*:*
7	*	2.	*	3.	7.	*	16:47
8	*	0.	*	4.	4.	*	10: 2
9	*	2.	*	3.	10.	*	12: 8
10	174.	2.	175.	4.	9.	191.	11:28
11	*	1.	*	2.	7.	*	12:57
12	*	1.	*	1.	7.	*	13:30
13	*	1.	*	2.	8.	*	11:49
14	164.	5.	162.	8.	12.	165.	10:58
15	173.	3.	172.	5.	9.	180.	13: 8
16	*	1.	*	1.	6.	*	13:34
17	*	1.	*	0.	6.	*	19:34
18	*	2.	*	0.	7.	*	14: 4
19	*	1.	*	0.	5.	*	15:48
20	*	0.	*	0.	5.	*	14:39
21	*	0.	*	0.	14.	*	14: 2
22	179.	3.	177.	5.	10.	211.	11:33
23	199.	2.	209.	3.	8.	190.	15:17
24	*	0.	*	1.	6.	*	0:24
25	*	0.	*	1.	5.	*	12:45
26	*	0.	*	0.	4.	*	19:31
27	197.	3.	204.	4.	9.	197.	8:30
28	*	0.	*	1.	8.	*	16:18
29	172.	2.	174.	4.	9.	201.	14:16
30	169.	2.	167.	3.	8.	173.	19:59
31	*	1.	*	1.	6.	*	19:58
MEAN	179.	1.	180.	2.			
STANDARD DEVIATION	12.8	1.1	17.1	1.9			

ENVIRONMENTAL SUMMARY REPORT

SITE: GIL HARROP
BIG FLATS, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 92

LATITUDE: 44.05 DEG NORTH
LONGITUDE: 77.21 DEG WEST

AZIMUTH: -10 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: EASTERN
ALTITUDE: 860 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	17	0	0	0	0	0	0	0	7
2	24	0	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	23	1	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	15	2	0	0	0	0	0	0	7
8	5	1	0	0	0	0	0	0	18
9	21	3	0	0	0	0	0	0	0
10	17	7	0	0	0	0	0	0	0
11	23	1	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	23	1	0	0	0	0	0	0	0
14	11	10	3	0	0	0	0	0	0
15	14	10	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	22	2	0	0	0	0	0	0	0
18	23	1	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	24	0	0	0	0	0	0	0	0
21	24	0	0	0	0	0	0	0	0
22	13	11	0	0	0	0	0	0	0
23	17	7	0	0	0	0	0	0	0
24	24	0	0	0	0	0	0	0	0
25	24	0	0	0	0	0	0	0	0
26	24	0	0	0	0	0	0	0	0
27	17	7	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	18	6	0	0	0	0	0	0	0
30	19	5	0	0	0	0	0	0	0
31	21	2	0	0	0	0	0	0	1
AVERAGE	20.4	2.5	0.1	0.0	0.0	0.0	0.0	0.0	1.1
TOTAL	631	77	3	0	0	0	0	0	33

ENVIRONMENTAL SUMMARY REPORT

SITE: GIL HARROP
BIG FLATS, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 92

LATITUDE: 44.05 DEG NORTH AZIMUTH: -10 DEG
LONGITUDE: 77.21 DEG WEST PYRANOMETER TILT: 89 DEG

TIME ZONE: EASTERN
ALTITUDE: 860 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM VALUE	HUMIDITY TIME HR:MN	MINIMUM VALUE	HUMIDITY TIME HR:MN
1	67.	58.	69.	78.	22:44	43.	15:34
2	69.	68.	70.	85.	13:36	51.	17:20
3	70.	62.	75.	84.	4:43	52.	14: 3
4	74.	67.	79.	87.	4: 0	62.	15:34
5	81.	77.	83.	89.	23:59	56.	12:16
6	70.	54.	79.	89.	1:45	41.	14:28
7	61.	42.	80.	91.	5:35	35.	15:16
8	68.	46.	69.	76.	23:47	46.	10: 2
9	61.	48.	69.	85.	5:33	44.	13:49
10	52.	33.	63.	83.	4:22	23.	13:36
11	53.	32.	65.	87.	5:55	21.	13:18
12	56.	39.	65.	81.	5:23	29.	15:44
13	62.	50.	69.	81.	6: 2	43.	13:20
14	47.	36.	54.	66.	0: 2	26.	13:22
15	51.	35.	61.	80.	5:45	27.	14: 6
16	51.	31.	64.	87.	5:50	23.	15:37
17	55.	36.	66.	83.	5:38	27.	11:56
18	59.	38.	71.	86.	5: 0	27.	13:16
19	70.	60.	76.	88.	7:13	48.	15:38
20	78.	70.	83.	87.	2:50	56.	14:39
21	78.	69.	83.	88.	3:27	52.	13:51
22	62.	45.	73.	83.	2:55	31.	15:59
23	59.	39.	72.	89.	3:54	29.	15: 6
24	63.	48.	73.	88.	6:16	39.	12: 8
25	69.	66.	71.	80.	23:52	61.	11: 4
26	80.	79.	81.	89.	23:37	70.	9: 7
27	65.	47.	76.	89.	0:30	39.	15:10
28	77.	70.	82.	90.	21:12	59.	8:44
29	74.	69.	78.	89.	2: 0	48.	17: 1
30	63.	42.	76.	91.	5:22	28.	14:58
31	60.	40.	74.	89.	6:18	28.	13:14
MEAN	65.	52.	73.				
STANDARD DEVIATION	9.	15.	7.				

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH BRIDGE TOWER
NEW YORK, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 206

LATITUDE: 40.00 DEG NORTH
LONGITUDE: 74.00 DEG WEST

AZIMUTH: 14 DEG
PYRANOMETER TILT: 41 DEG

TIME ZONE: EASTERN
ALTITUDE: 137 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	265.	N.A.	N.A.	106.	13: 9	2958.	9.
2	1377.	N.A.	N.A.	334.	12:34	2959.	47.
3	910.	N.A.	N.A.	248.	13:38	2961.	31.
4	310.	N.A.	N.A.	88.	14: 9	2963.	10.
5	830.	N.A.	N.A.	191.	10:31	2965.	28.
6	1726.	N.A.	N.A.	276.	12:35	2967.	58.
7	1696.	N.A.	N.A.	269.	13:50	2970.	57.
8	1670.	N.A.	N.A.	259.	13: 4	2972.	56.
9	1206.	N.A.	N.A.	259.	13:39	2975.	41.
10	1223.	N.A.	N.A.	272.	13:17	2978.	41.
11	1782.	N.A.	N.A.	272.	13: 3	2981.	60.
12	1720.	N.A.	N.A.	320.	12:57	2984.	58.
13	893.	N.A.	N.A.	228.	14:13	2988.	30.
14	1763.	N.A.	N.A.	300.	13: 8	2991.	59.
15	1537.	N.A.	N.A.	303.	13: 7	2995.	51.
16	1421.	N.A.	N.A.	303.	13:31	2999.	47.
17	1083.	N.A.	N.A.	269.	13:28	3003.	36.
18	1705.	N.A.	N.A.	252.	12:49	3007.	57.
19	*	N.A.	N.A.	*	*:*	3011.	*
20	180.	N.A.	N.A.	143.	15: 7	3015.	6.
21	1329.	N.A.	N.A.	252.	12:11	3020.	44.
22	1421.	N.A.	N.A.	313.	13:38	3024.	47.
23	1134.	N.A.	N.A.	276.	14:26	3029.	37.
24	1125.	N.A.	N.A.	279.	12:38	3034.	37.
25	1259.	N.A.	N.A.	296.	13: 9	3039.	41.
26	685.	N.A.	N.A.	187.	11:43	3044.	22.
27	1814.	N.A.	N.A.	289.	13:30	3049.	59.
28	787.	N.A.	N.A.	235.	12: 5	3054.	26.
29	1547.	N.A.	N.A.	293.	12:39	3059.	51.
30	1652.	N.A.	N.A.	300.	12:44	3065.	54.
31	1582.	N.A.	N.A.	265.	11:45	3070.	52.
MEAN	1254.	N.A.	N.A.			3004.	
STANDARD DEVIATION	471.	N.A.	N.A.			35.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH BRIDGE TOWER
NEW YORK, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 206

LATITUDE: 40.00 DEG NORTH
LONGITUDE: 74.00 DEG WEST

AZIMUTH: 14 DEG
PYRANOMETER TILT: 41 DEG

TIME ZONE: EASTERN
ALTITUDE: 137 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	74.	75.	73.	77.	13: 9	71.	4:48	66.
2	74.	75.	74.	78.	13:44	71.	5:57	66.
3	75.	75.	74.	78.	13:43	72.	6:36	67.
4	74.	75.	73.	76.	8:49	71.	18:31	67.
5	77.	78.	77.	81.	13: 2	72.	4:33	67.
6	81.	81.	80.	86.	16:19	75.	4:57	66.
7	84.	85.	83.	91.	16:46	76.	5:18	66.
8	88.	88.	87.	94.	15:49	81.	5:31	66.
9	89.	90.	89.	94.	16:19	84.	5:34	67.
10	86.	87.	85.	91.	13:54	82.	23:54	67.
11	84.	85.	84.	91.	15:27	75.	5:35	68.
12	86.	87.	85.	91.	16: 4	81.	7:11	69.
13	86.	87.	85.	91.	14:29	82.	5: 8	68.
14	80.	81.	78.	85.	0: 9	71.	23:10	68.
15	76.	77.	76.	84.	16:24	68.	4:46	68.
16	80.	81.	79.	86.	15:50	73.	3:29	68.
17	82.	83.	81.	88.	13:23	78.	5:17	68.
18	81.	82.	78.	87.	13:10	75.	4:22	70.
19	84.	87.	82.	89.	13:21	81.	21:58	69.
20	79.	79.	79.	83.	2: 3	76.	23:49	69.
21	81.	84.	79.	89.	14:35	76.	0:16	68.
22	77.	78.	76.	84.	15:25	71.	23:57	68.
23	75.	76.	73.	81.	16:45	67.	4:24	68.
24	76.	78.	75.	80.	13:42	73.	3:39	68.
25	76.	77.	76.	79.	13:19	75.	0:31	69.
26	77.	77.	77.	78.	12:52	74.	3:33	69.
27	80.	81.	78.	85.	15:59	76.	1:40	68.
28	76.	76.	75.	78.	10:45	74.	4:42	68.
29	77.	80.	73.	84.	14:57	66.	23:45	68.
30	74.	75.	74.	82.	17:53	65.	5:16	68.
31	80.	81.	78.	83.	11:40	76.	4:49	68.
MEAN	80.	81.	79.					68.
STANDARD DEVIATION	4.5	4.6	4.6					1.1

ENVIRONMENTAL SUMMARY REPORT

SITE: STEWART-TEELE-MITCHELL
MALTA, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 62

LATITUDE: 43.00 DEG NORTH
LONGITUDE: 74.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 277 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1332.	N.A.	N.A.	317.	13:40	2891.	46.
2	1526.	N.A.	N.A.	320.	12:17	2893.	53.
3	862.	N.A.	N.A.	277.	11:25	2895.	30.
4	506.	N.A.	N.A.	87.	12:50	2897.	17.
5	980.	N.A.	N.A.	271.	13: 2	2899.	34.
6	1932.	N.A.	N.A.	271.	11:47	2902.	67.
7	1599.	N.A.	N.A.	280.	10:54	2905.	55.
8	2021.	N.A.	N.A.	274.	12: 3	2908.	70.
9	1632.	N.A.	N.A.	277.	13: 1	2911.	56.
10	1956.	N.A.	N.A.	320.	12: 4	2914.	67.
11	1964.	N.A.	N.A.	286.	12:10	2918.	67.
12	1379.	N.A.	N.A.	323.	12:19	2921.	47.
13	1278.	N.A.	N.A.	277.	10:38	2925.	44.
14	1234.	N.A.	N.A.	305.	12:14	2929.	42.
15	1852.	N.A.	N.A.	314.	11:17	2933.	63.
16	1970.	N.A.	N.A.	323.	11:51	2937.	67.
17	1596.	N.A.	N.A.	314.	11:36	2942.	54.
18	1512.	N.A.	N.A.	286.	12:34	2947.	51.
19	1574.	N.A.	N.A.	286.	12:50	2951.	53.
20	180.	N.A.	N.A.	34.	11:36	2956.	6.
21	993.	N.A.	N.A.	286.	11:33	2961.	34.
22	1400.	N.A.	N.A.	333.	12:11	2966.	47.
23	1949.	N.A.	N.A.	311.	12: 1	2972.	66.
24	1988.	N.A.	N.A.	308.	11:58	2977.	67.
25	1505.	N.A.	N.A.	299.	12:11	2983.	50.
26	665.	N.A.	N.A.	190.	9: 0	2988.	22.
27	2061.	N.A.	N.A.	299.	11:45	2994.	69.
28	633.	N.A.	N.A.	215.	8:51	3000.	21.
29	966.	N.A.	N.A.	320.	12:20	3006.	32.
30	1969.	N.A.	N.A.	299.	12:10	3012.	65.
31	2151.	N.A.	N.A.	295.	11:55	3018.	71.
MEAN	1457.	N.A.	N.A.			2944.	
STANDARD DEVIATION	522.	N.A.	N.A.			39.	

ENVIRONMENTAL SUMMARY REPORT

SITE: STEWART-TEELE-MITCHELL
MALTA, NEW YORK

REPORT PERIOD: 81/ 7
SITE NUMBER: 62

LATITUDE: 43.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 74.00 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: EASTERN
ALTITUDE: 277 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	73.	80.	67.	88.	13:46	58.	4:42	81.
2	75.	81.	69.	87.	13:27	64.	23:57	82.
3	72.	74.	69.	83.	16:23	62.	2: 0	82.
4	71.	74.	69.	77.	14:20	66.	23:40	79.
5	72.	75.	69.	83.	15:10	66.	1: 0	81.
6	76.	82.	71.	88.	15:26	67.	4:25	84.
7	78.	84.	71.	93.	15:10	68.	4:14	83.
8	81.	88.	74.	94.	15:53	67.	2:22	86.
9	83.	89.	79.	95.	14:21	73.	3:30	87.
10	80.	87.	73.	93.	15:37	66.	23:48	89.
11	77.	85.	69.	94.	15:16	62.	2:18	89.
12	76.	82.	70.	92.	13:34	64.	4:52	89.
13	76.	81.	71.	90.	14:54	67.	3:47	85.
14	69.	72.	67.	76.	9:45	61.	23:59	83.
15	71.	79.	62.	87.	15:38	56.	3:22	82.
16	72.	81.	63.	90.	15:25	54.	4:33	84.
17	72.	82.	63.	92.	15:41	55.	5: 7	85.
18	71.	80.	63.	91.	16: 2	59.	4:50	88.
19	72.	78.	67.	91.	14:47	61.	0:18	89.
20	70.	70.	69.	73.	23:17	66.	3:46	84.
21	75.	78.	72.	84.	11:49	69.	23:55	85.
22	68.	71.	65.	80.	16: 0	59.	22:57	84.
23	65.	72.	58.	82.	16:17	50.	5:10	85.
24	66.	74.	58.	84.	16: 4	49.	4:41	84.
25	70.	75.	64.	81.	12:22	58.	1:32	83.
26	71.	75.	67.	80.	13:43	63.	2:30	82.
27	71.	77.	66.	84.	14:52	56.	23:47	87.
28	63.	68.	59.	73.	10:59	53.	2:27	86.
29	64.	67.	60.	75.	10:23	53.	23:59	82.
30	65.	73.	57.	81.	16:42	50.	5: 8	83.
31	68.	78.	59.	89.	16: 5	52.	5: 4	85.
MEAN	72.	78.	66.					84.
STANDARD DEVIATION	4.9	5.7	5.2					2.7

ENVIRONMENTAL SUMMARY REPORT

**SITE: SUMMERWOOD
OLD SAYBROOK, CONNECTICUT**

**REPORT PERIOD: 81/ 7
SITE NUMBER: 226**

**LATITUDE: 41.00 DEG NORTH AZIMUTH: 12 DEG TIME ZONE: EASTERN
LONGITUDE: 73.00 DEG WEST PYRANOMETER TILT: 50 DEG ALTITUDE: 100 FEET**

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	1322.	N.A.	N.A.	301.	12:58	2649.	50.
2	1382.	N.A.	N.A.	289.	12:29	2651.	52.
3	1049.	N.A.	N.A.	242.	11:48	2654.	40.
4	452.	N.A.	N.A.	155.	12:10	2657.	17.
5	1051.	N.A.	N.A.	307.	11:14	2660.	40.
6	1696.	N.A.	N.A.	261.	12:34	2664.	64.
7	1649.	N.A.	N.A.	264.	13: 1	2667.	62.
8	1797.	N.A.	N.A.	261.	12:14	2671.	67.
9	1601.	N.A.	N.A.	261.	12:24	2676.	60.
10	1818.	N.A.	N.A.	270.	12: 4	2680.	68.
11	1835.	N.A.	N.A.	264.	11:53	2685.	68.
12	1662.	N.A.	N.A.	298.	11:58	2690.	62.
13	1116.	N.A.	N.A.	245.	13: 2	2695.	41.
14	1750.	N.A.	N.A.	282.	12: 5	2700.	65.
15	1571.	N.A.	N.A.	298.	12:34	2706.	58.
16	1861.	N.A.	N.A.	282.	12:11	2709.	69.
17	1688.	N.A.	N.A.	267.	12: 5	2715.	62.
18	1799.	N.A.	N.A.	261.	12:11	2722.	66.
19	1376.	N.A.	N.A.	258.	12: 5	2728.	50.
20	190.	N.A.	N.A.	81.	9:30	2735.	7.
21	1630.	N.A.	N.A.	258.	12:12	2739.	60.
22	1493.	N.A.	N.A.	304.	11:50	2746.	54.
23	1814.	N.A.	N.A.	301.	12:55	2756.	66.
24	1774.	N.A.	N.A.	301.	13: 0	2764.	64.
25	1785.	N.A.	N.A.	301.	12: 1	2771.	64.
26	1275.	N.A.	N.A.	273.	13:18	2777.	46.
27	1760.	N.A.	N.A.	273.	12:24	2785.	63.
28	1647.	N.A.	N.A.	276.	12: 8	2793.	59.
29	1636.	N.A.	N.A.	276.	12:13	2801.	58.
30	1692.	N.A.	N.A.	307.	12:29	2807.	60.
31	1943.	N.A.	N.A.	279.	12:21	2816.	69.
MEAN	1520.	N.A.	N.A.			2718.	
STANDARD DEVIATION	400.	N.A.	N.A.			52.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SUMMERWOOD
OLD SAYBROOK, CONNECTICUT

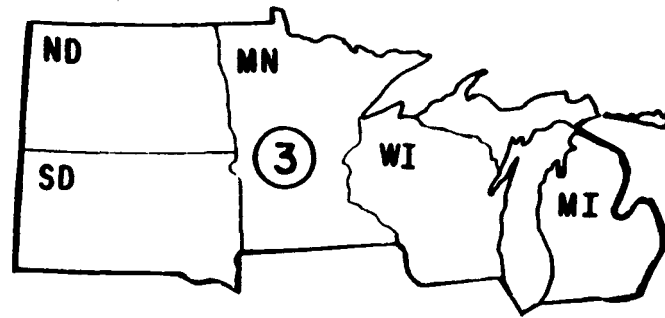
REPORT PERIOD: 81/ 7
SITE NUMBER: 226

LATITUDE: 41.00 DEG NORTH AZIMUTH: 12 DEG TIME ZONE: EASTERN
LONGITUDE: 73.00 DEG WEST PYRANOMETER TILT: 50 DEG ALTITUDE: 100 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	73.	77.	69.	82.	8:42	64.	1:41	74.
2	71.	73.	69.	77.	14:10	67.	21:29	76.
3	72.	75.	69.	81.	13:13	67.	0:14	74.
4	71.	73.	69.	78.	12:31	68.	19:54	75.
5	74.	78.	71.	89.	14: 5	68.	4:52	73.
6	80.	88.	72.	97.	9:54	66.	3:25	74.
7	83.	92.	75.	100.	11: 9	66.	4:24	74.
8	85.	94.	77.	99.	10:11	68.	4:19	77.
9	85.	94.	77.	99.	10:27	70.	4:24	80.
10	81.	88.	74.	95.	13:24	69.	23:32	80.
11	81.	90.	73.	98.	10:49	62.	4:36	80.
12	78.	81.	74.	89.	9:18	70.	4:47	79.
13	80.	87.	74.	96.	11:42	71.	3:10	78.
14	76.	83.	69.	91.	7:33	64.	23:46	76.
15	74.	81.	67.	89.	11:25	58.	4:34	76.
16	77.	88.	67.	94.	9: 9	57.	4:32	74.
17	78.	89.	68.	96.	11: 7	60.	4:37	74.
18	77.	84.	70.	95.	9:26	63.	3:55	74.
19	75.	80.	70.	86.	15:33	64.	1:47	75.
20	72.	73.	72.	78.	9:36	69.	17:30	77.
21	78.	84.	72.	91.	14: 4	69.	23:45	75.
22	74.	80.	69.	90.	12:49	64.	23:35	76.
23	72.	79.	65.	89.	13: 5	59.	4: 7	77.
24	69.	74.	65.	82.	10:15	60.	4:44	76.
25	72.	77.	66.	83.	10:36	61.	3:40	75.
26	72.	76.	69.	80.	10:59	62.	4:23	74.
27	79.	86.	71.	93.	13:39	59.	23:57	77.
28	70.	74.	66.	82.	15: 9	57.	4:40	76.
29	77.	85.	70.	94.	12:29	61.	23:47	75.
30	69.	77.	62.	84.	12:45	53.	4:40	76.
31	73.	83.	64.	91.	14: 2	55.	2: 7	76.
MEAN	76.	82.	70.					76.
STANDARD DEVIATION	4.5	6.4	3.7					1.9

ZONE 3





ENVIRONMENTAL SUMMARY REPORT

SITE: ARNO KAHN
DULUTH, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 143

LATITUDE: 47.00 DEG NORTH
LONGITUDE: 92.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: CENTRAL
ALTITUDE: 800 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	981.	N.A.	N.A.	159.	11:44	1027.	95.
2	979.	N.A.	N.A.	156.	11:25	1031.	95.
3	366.	N.A.	N.A.	127.	10: 8	1036.	35.
4	841.	N.A.	N.A.	168.	11:57	1040.	81.
5	953.	N.A.	N.A.	153.	11:21	1046.	91.
6	960.	N.A.	N.A.	153.	11:59	1052.	91.
7	1008.	N.A.	N.A.	171.	11:45	1057.	95.
8	825.	N.A.	N.A.	168.	12: 7	1063.	78.
9	999.	N.A.	N.A.	159.	11:46	1071.	93.
10	1011.	N.A.	N.A.	159.	11:32	1078.	94.
11	980.	N.A.	N.A.	153.	11:26	1085.	90.
12	420.	N.A.	N.A.	147.	13:22	1093.	38.
13	985.	N.A.	N.A.	165.	11:40	1100.	89.
14	57.	N.A.	N.A.	15.	12:18	1110.	5.
15	382.	N.A.	N.A.	144.	14: 4	1119.	34.
16	660.	N.A.	N.A.	171.	11: 1	1129.	58.
17	953.	N.A.	N.A.	183.	12:31	1139.	84.
18	969.	N.A.	N.A.	165.	11:32	1149.	84.
19	802.	N.A.	N.A.	168.	13:11	1159.	69.
20	478.	N.A.	N.A.	177.	10:52	1171.	41.
21	969.	N.A.	N.A.	180.	12: 6	1181.	82.
22	1018.	N.A.	N.A.	180.	13:39	1194.	85.
23	288.	N.A.	N.A.	156.	10:59	1206.	24.
24	207.	N.A.	N.A.	56.	15:36	1219.	17.
25	530.	N.A.	N.A.	156.	14: 1	1232.	43.
26	1012.	N.A.	N.A.	192.	12:53	1244.	81.
27	831.	N.A.	N.A.	156.	10:27	1258.	66.
28	766.	N.A.	N.A.	183.	11:46	1272.	60.
29	834.	N.A.	N.A.	192.	12:10	1287.	65.
30	250.	N.A.	N.A.	100.	14:54	1301.	19.
31	155.	N.A.	N.A.	44.	8:13	1317.	12.
MEAN	725.	N.A.	N.A.			1144.	
STANDARD DEVIATION	311.	N.A.	N.A.			89.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ARNO KAHN
DULUTH, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 143

LATITUDE: 47.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 92.00 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: CENTRAL
ALTITUDE: 800 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	61.	63.	60.	76.	1:47	46.	4:43	55.
2	61.	67.	57.	71.	11:36	46.	4:40	55.
3	72.	76.	70.	*101.	14:15	57.	0:0	58.
4	79.	89.	73.	*110.	15:14	58.	4:18	65.
5	82.	95.	75.	*117.	12:9	56.	4:39	61.
6	84.	94.	78.	*117.	10:23	68.	23:21	57.
7	83.	88.	80.	*117.	16:55	71.	0:4	59.
8	79.	88.	73.	95.	12:28	66.	23:41	59.
9	74.	84.	69.	93.	14:32	57.	23:27	54.
10	79.	90.	72.	95.	16:9	56.	0:15	54.
11	81.	86.	77.	97.	15:5	68.	23:5	60.
12	78.	82.	75.	97.	17:54	63.	2:54	59.
13	83.	92.	78.	104.	16:7	69.	4:50	59.
14	72.	70.	73.	98.	23:56	64.	10:37	56.
15	69.	69.	69.	98.	0:1	63.	5:48	57.
16	77.	85.	73.	102.	14:34	65.	1:46	54.
17	79.	91.	71.	*112.	10:7	63.	23:10	55.
18	74.	85.	67.	*104.	12:46	61.	4:14	56.
19	83.	93.	77.	*117.	19:40	63.	0:9	57.
20	78.	85.	74.	*108.	11:3	65.	23:23	57.
21	67.	72.	64.	*117.	8:43	60.	22:4	54.
22	68.	75.	64.	95.	9:7	50.	2:52	52.
23	70.	73.	68.	*105.	17:39	65.	2:6	55.
24	75.	76.	74.	*114.	17:2	65.	0:14	56.
25	70.	72.	68.	*117.	16:46	49.	23:42	55.
26	68.	74.	64.	*113.	18:50	48.	1:23	52.
27	61.	70.	56.	79.	0:21	45.	4:42	55.
28	63.	71.	58.	78.	18:29	47.	5:6	56.
29	66.	72.	61.	76.	12:53	48.	5:20	57.
30	68.	69.	68.	74.	17:7	64.	3:31	58.
31	71.	71.	70.	76.	17:51	66.	5:59	57.
MEAN	73.	80.	70.					57.
STANDARD DEVIATION	7.1	9.5	6.5					2.7

ENVIRONMENTAL SUMMARY REPORT

SITE: ARNO KAHN
DULUTH, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 143

LATITUDE: 47.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 92.00 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 800 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	254.	5.	255.	8.	17.	254.	13:52
2	260.	3.	264.	5.	12.	257.	0:45
3	*	1.	*	2.	9.	*	14:41
4	*	1.	*	2.	10.	*	12:13
5	*	1.	*	2.	9.	*	17:40
6	55.	3.	34.	4.	9.	52.	12: 4
7	19.	5.	25.	7.	21.	38.	8:59
8	62.	6.	28.	7.	19.	124.	17:43
9	113.	4.	108.	6.	16.	79.	16:34
10	58.	3.	25.	4.	18.	127.	23:10
11	310.	3.	298.	3.	13.	91.	0: 4
12	*	1.	*	2.	7.	*	14:36
13	187.	2.	234.	3.	10.	187.	10:58
14	248.	5.	249.	6.	18.	268.	16:34
15	254.	3.	256.	5.	13.	295.	13:58
16	*	1.	*	3.	8.	*	16:10
17	102.	3.	103.	7.	19.	128.	13:14
18	*	1.	*	2.	6.	*	14:22
19	*	1.	*	2.	13.	*	16:44
20	229.	3.	205.	3.	16.	278.	16:28
21	259.	4.	263.	6.	13.	285.	13: 5
22	255.	4.	259.	6.	14.	241.	12:41
23	267.	4.	273.	3.	11.	272.	0: 3
24	35.	3.	20.	3.	12.	340.	14:38
25	144.	4.	151.	5.	14.	141.	3: 5
26	155.	3.	152.	5.	13.	124.	14:39
27	*	1.	*	2.	8.	*	10:53
28	*	1.	*	2.	10.	*	14:47
29	30.	3.	22.	6.	15.	30.	16:19
30	325.	3.	334.	4.	10.	343.	23:25
31	16.	4.	20.	5.	17.	7.	8: 7
MEAN	165.	3.	163.	4.			
STANDARD DEVIATION	104.7	1.4	111.5	1.8			

ENVIRONMENTAL SUMMARY REPORT

SITE: ARNO KAHN
DULUTH, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 143

LATITUDE: 47.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 92.00 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: CENTRAL
ALTITUDE: 800 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	11	10	3	0	0	0	0	0	0
2	15	9	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	22	2	0	0	0	0	0	0	0
7	7	15	2	0	0	0	0	0	0
8	4	16	4	0	0	0	0	0	0
9	9	14	1	0	0	0	0	0	0
10	15	8	1	0	0	0	0	0	0
11	19	5	0	0	0	0	0	0	0
12	23	1	0	0	0	0	0	0	0
13	19	5	0	0	0	0	0	0	0
14	8	9	7	0	0	0	0	0	0
15	14	10	0	0	0	0	0	0	0
16	23	1	0	0	0	0	0	0	0
17	15	7	2	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	13	10	1	0	0	0	0	0	0
21	15	8	1	0	0	0	0	0	0
22	10	14	0	0	0	0	0	0	0
23	15	9	0	0	0	0	0	0	0
24	22	2	0	0	0	0	0	0	0
25	7	16	1	0	0	0	0	0	0
26	13	11	0	0	0	0	0	0	0
27	23	1	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	15	8	1	0	0	0	0	0	0
30	12	12	0	0	0	0	0	0	0
31	18	3	2	0	0	0	0	0	1
AVERAGE	16.5	6.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	511	206	26	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 15

LATITUDE: 43.90 DEG NORTH
LONGITUDE: 103.50 DEG WEST

AZIMUTH: -19 DEG
PYRANOMETER TILT: 46 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5265 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1447.	N.A.	N.A.	294.	11:57	2946.	49.
2	614.	N.A.	N.A.	136.	16:38	2948.	21.
3	1419.	N.A.	N.A.	329.	12:36	2950.	48.
4	2036.	N.A.	N.A.	294.	12:47	2952.	69.
5	1857.	N.A.	N.A.	353.	13: 1	2954.	63.
6	2026.	N.A.	N.A.	287.	12:18	2956.	69.
7	1734.	N.A.	N.A.	283.	12:28	2959.	59.
8	2079.	N.A.	N.A.	294.	12:42	2961.	70.
9	1159.	N.A.	N.A.	290.	12: 3	2964.	39.
10	1624.	N.A.	N.A.	301.	12: 3	2967.	55.
11	1468.	N.A.	N.A.	304.	12: 6	2970.	49.
12	298.	N.A.	N.A.	91.	9:19	2974.	10.
13	886.	N.A.	N.A.	231.	11:25	2977.	30.
14	1257.	N.A.	N.A.	297.	13:44	2981.	42.
15	1182.	N.A.	N.A.	308.	12:12	2985.	40.
16	1055.	N.A.	N.A.	339.	13:11	2989.	35.
17	1127.	N.A.	N.A.	280.	10:40	2993.	38.
18	1689.	N.A.	N.A.	297.	12:27	2997.	56.
19	1645.	N.A.	N.A.	308.	11:56	3001.	55.
20	1483.	N.A.	N.A.	311.	13:21	3006.	49.
21	1806.	N.A.	N.A.	311.	13:18	3010.	60.
22	1053.	N.A.	N.A.	308.	12:11	3015.	35.
23	1690.	N.A.	N.A.	304.	12:33	3020.	56.
24	1544.	N.A.	N.A.	322.	12:40	3025.	51.
25	166.	N.A.	N.A.	87.	9:20	3030.	5.
26	344.	N.A.	N.A.	87.	10: 0	3035.	11.
27	361.	N.A.	N.A.	105.	10:48	3040.	12.
28	1922.	N.A.	N.A.	315.	12:22	3045.	63.
29	1852.	N.A.	N.A.	304.	12: 0	3051.	61.
30	1873.	N.A.	N.A.	297.	11:58	3056.	61.
31	1968.	N.A.	N.A.	308.	12:20	3062.	64.
MEAN	1376.	N.A.	N.A.			2994.	
STANDARD DEVIATION	557.	N.A.	N.A.			36.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 15

LATITUDE: 43.90 DEG NORTH AZIMUTH: -19 DEG
LONGITUDE: 103.50 DEG WEST PYRANOMETER TILT: 46 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5265 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM VALUE	HUMIDITY TIME HR:MN	MINIMUM VALUE	HUMIDITY TIME HR:MN
1	42.	42.	42.	49.	11:41	36.	10:21
2	40.	40.	39.	47.	9:28	34.	23:13
3	39.	42.	37.	50.	14:39	33.	3:40
4	36.	38.	35.	45.	16:20	28.	20:47
5	33.	34.	32.	39.	12:45	27.	8:44
6	29.	29.	28.	34.	11:57	23.	7:25
7	30.	32.	29.	39.	16: 7	25.	7:14
8	21.	20.	21.	33.	0:53	14.	8:15
9	27.	29.	25.	36.	11:57	17.	0: 3
10	33.	35.	31.	43.	13:44	28.	17:32
11	35.	36.	33.	48.	15:40	26.	5:48
12	41.	39.	42.	48.	3:39	33.	17: 8
13	48.	50.	46.	52.	10:48	42.	1: 6
14	50.	50.	50.	58.	12:24	42.	9:28
15	50.	49.	51.	57.	6: 4	42.	23:41
16	45.	46.	44.	53.	17:25	40.	23:28
17	39.	38.	40.	45.	20:59	28.	12:42
18	39.	41.	37.	44.	10:25	33.	22:58
19	36.	36.	35.	39.	23:13	29.	9:53
20	32.	32.	32.	38.	0: 1	26.	9:42
21	37.	37.	37.	44.	17:50	30.	0: 3
22	39.	40.	39.	46.	11:34	33.	22:35
23	39.	39.	38.	48.	17: 7	32.	8: 7
24	44.	44.	44.	51.	17:54	39.	13:44
25	43.	45.	42.	50.	13:20	38.	23:44
26	40.	42.	38.	44.	12:56	35.	3:44
27	44.	46.	42.	48.	15:18	38.	0: 8
28	46.	47.	45.	52.	21:14	40.	4: 1
29	43.	42.	43.	48.	0:16	39.	4:16
30	36.	35.	36.	50.	15:13	24.	8:40
31	44.	46.	42.	52.	15:15	36.	20: 8
MEAN	39.	39.	38.				
STANDARD DEVIATION	7.	7.	7.				

ENVIRONMENTAL SUMMARY REPORT

SITE: SPEARFISH
SPEARFISH, SOUTH DAKOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 194

LATITUDE: 44.40 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 103.75 DEG WEST PYRANOMETER TILT: 60 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 3500 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS
				VALUE	TIME		EXT INS PERCENT
1	1408.	N.A.	N.A.	274.	11:56	2334.	60.
2	871.	N.A.	N.A.	234.	12:48	2337.	37.
3	1723.	N.A.	N.A.	281.	12:47	2341.	74.
4	1797.	N.A.	N.A.	254.	11:53	2345.	77.
5	1789.	N.A.	N.A.	251.	11:24	2349.	76.
6	1804.	N.A.	N.A.	254.	11:35	2353.	77.
7	1638.	N.A.	N.A.	254.	11:40	2358.	69.
8	1902.	N.A.	N.A.	271.	12: 8	2363.	80.
9	1770.	N.A.	N.A.	261.	11:22	2366.	75.
10	1094.	N.A.	N.A.	284.	12:13	2372.	46.
11	1815.	N.A.	N.A.	267.	12:40	2378.	76.
12	220.	N.A.	N.A.	67.	12: 9	2384.	9.
13	1316.	N.A.	N.A.	314.	12:25	2391.	55.
14	775.	N.A.	N.A.	217.	14:34	2398.	32.
15	1740.	N.A.	N.A.	257.	11:26	2405.	72.
16	1637.	N.A.	N.A.	264.	10:22	2410.	68.
17	1052.	N.A.	N.A.	297.	10:59	2418.	44.
18	1766.	N.A.	N.A.	267.	12:52	2426.	73.
19	1791.	N.A.	N.A.	254.	12: 0	2432.	74.
20	1493.	N.A.	N.A.	277.	12:32	2440.	61.
21	1563.	N.A.	N.A.	261.	12:31	2449.	64.
22	1069.	N.A.	N.A.	291.	11:47	2458.	43.
23	1699.	N.A.	N.A.	274.	11:59	2465.	69.
24	1649.	N.A.	N.A.	264.	12:17	2475.	67.
25	159.	N.A.	N.A.	40.	9:48	2485.	6.
26	653.	N.A.	N.A.	237.	9: 6	2495.	26.
27	742.	N.A.	N.A.	231.	12:12	2505.	30.
28	1907.	N.A.	N.A.	267.	12: 2	2513.	75.
29	1905.	N.A.	N.A.	267.	11:48	2524.	76.
30	1689.	N.A.	N.A.	287.	11:49	2532.	67.
31	1950.	N.A.	N.A.	274.	11:59	2544.	77.
MEAN	1432.	N.A.	N.A.			2421.	
STANDARD DEVIATION	504.	N.A.	N.A.			64.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SPEARFISH
SPEARFISH, SOUTH DAKOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 194

LATITUDE: 44.40 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 103.75 DEG WEST PYRANOMETER TILT: 60 DEG
TIME ZONE: MOUNTAIN ALTITUDE: 3500 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	86.	98.	76.	105.	14:14	64.	23:49	N.A.
2	69.	72.	67.	85.	18: 4	59.	23:56	N.A.
3	73.	80.	66.	85.	15:32	56.	1:53	N.A.
4	79.	88.	71.	94.	16:25	59.	4:36	N.A.
5	86.	95.	78.	102.	15:19	66.	1: 8	N.A.
6	95.	103.	87.	112.	15:56	75.	23:56	N.A.
7	89.	103.	77.	109.	13:32	65.	23:59	N.A.
8	65.	70.	61.	79.	15:41	52.	23:59	N.A.
9	78.	86.	71.	97.	16:50	51.	1: 8	N.A.
10	83.	90.	76.	99.	13:33	66.	23:58	N.A.
11	83.	90.	76.	96.	15:31	65.	0:30	N.A.
12	71.	74.	69.	81.	11: 0	65.	5: 3	N.A.
13	72.	77.	68.	87.	14:39	59.	4: 4	N.A.
14	74.	76.	72.	86.	16: 5	64.	4:37	N.A.
15	72.	77.	68.	89.	16:56	61.	7:15	N.A.
16	69.	73.	66.	81.	13:34	56.	7:36	N.A.
17	69.	75.	63.	82.	12:51	61.	22:23	N.A.
18	71.	79.	65.	88.	14:34	55.	4:52	N.A.
19	76.	83.	71.	95.	15:55	65.	23:39	N.A.
20	78.	87.	71.	95.	12:27	60.	4:43	N.A.
21	76.	85.	68.	91.	11:37	59.	4:52	N.A.
22	70.	78.	63.	90.	11:47	57.	23:59	N.A.
23	71.	80.	64.	90.	13:56	56.	0:31	N.A.
24	69.	75.	64.	83.	14:57	56.	4:49	N.A.
25	57.	57.	57.	64.	0:17	52.	3:56	N.A.
26	59.	63.	56.	67.	10:52	53.	2:57	N.A.
27	59.	62.	57.	70.	15:46	54.	6: 4	N.A.
28	70.	77.	63.	83.	13:59	48.	4:39	N.A.
29	78.	85.	72.	91.	11:11	59.	3:59	N.A.
30	84.	90.	78.	97.	11:22	65.	23:43	N.A.
31	72.	81.	65.	84.	17: 6	59.	20: 2	N.A.
MEAN	74.	81.	69.					N.A.
STANDARD DEVIATION	8.6	10.9	7.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 167

LATITUDE: 44.00 DEG NORTH
LONGITUDE: 94.25 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 55 DEG

TIME ZONE: CENTRAL
ALTITUDE: 1150 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	72.	75.	69.	82.	16:48	62.	4:47	77.
2	74.	78.	70.	87.	15:13	63.	4:17	78.
3	71.	73.	70.	81.	18:19	65.	23:49	76.
4	75.	81.	69.	89.	14:13	63.	3:12	77.
5	75.	82.	69.	92.	15:23	60.	4:43	78.
6	77.	84.	70.	90.	14:24	60.	3:55	78.
7	78.	82.	75.	87.	14:32	69.	4:53	78.
8	78.	84.	72.	90.	15: 4	64.	23:55	79.
9	70.	78.	63.	88.	14:45	53.	4:53	77.
10	75.	82.	69.	89.	15:18	53.	4: 7	78.
11	80.	80.	79.	93.	16:26	67.	6:34	79.
12	81.	85.	77.	96.	16:56	73.	3:27	80.
13	79.	83.	75.	89.	15:41	70.	4:13	80.
14	82.	88.	77.	96.	15: 9	69.	22:11	79.
15	70.	72.	68.	76.	14:43	65.	21:58	78.
16	72.	76.	68.	86.	15:12	63.	5: 4	78.
17	75.	81.	70.	91.	13:36	66.	23:46	79.
18	76.	82.	71.	90.	16:13	64.	4:45	79.
19	76.	83.	69.	89.	16:11	64.	23:49	79.
20	71.	76.	67.	84.	16:23	61.	4:53	78.
21	69.	75.	64.	84.	14: 9	58.	4:33	78.
22	69.	73.	64.	80.	13:16	60.	22: 3	78.
23	68.	70.	66.	81.	16:49	60.	3: 7	77.
24	71.	77.	67.	84.	14: 7	65.	0:28	78.
25	67.	71.	64.	74.	12:44	59.	23:56	76.
26	61.	63.	59.	70.	17:34	53.	23:58	74.
27	57.	60.	55.	64.	9:23	51.	4:41	74.
28	62.	66.	58.	75.	14:53	53.	3:52	76.
29	63.	66.	59.	70.	16: 9	51.	1:59	76.
30	72.	76.	69.	82.	14: 1	65.	1:56	77.
31	74.	77.	72.	83.	15:59	67.	0:26	77.
MEAN	72.	77.	68.					78.
STANDARD DEVIATION	6.0	6.8	5.7					1.4

ENVIRONMENTAL SUMMARY REPORT

SITE: UNIVERSITY OF MINNESOTA
MINNEAPOLIS, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 131

LATITUDE: 45.00 DEG NORTH AZIMUTH: 5 DEG
LONGITUDE: 93.00 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: CENTRAL
ALTITUDE: 834 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2206.	307.	1899.	305.	12:19	2969.	74.
2	1823.	532.	1291.	322.	12:41	2971.	61.
3	1121.	706.	415.	252.	12:19	2973.	38.
4	1602.	651.	950.	299.	11:19	2975.	54.
5	2093.	362.	1731.	302.	11:16	2977.	70.
6	2095.	339.	1756.	289.	11:59	2979.	70.
7	1890.	718.	1171.	299.	11:32	2981.	63.
8	1541.	659.	883.	292.	11:53	2984.	52.
9	2184.	264.	1920.	299.	12: 9	2987.	73.
10	1964.	456.	1508.	299.	12:33	2989.	66.
11	1228.	586.	642.	325.	11:34	2993.	41.
12	643.	462.	181.	168.	15:23	2996.	21.
13	1716.	673.	1042.	332.	12:33	2999.	57.
14	673.	530.	143.	164.	12: 0	3003.	22.
15	535.	429.	106.	138.	14:31	3006.	18.
16	1782.	636.	1146.	295.	11:56	3010.	59.
17	1845.	479.	1366.	305.	12:16	3014.	61.
18	1855.	559.	1295.	302.	12:26	3018.	61.
19	1801.	622.	1179.	325.	11:55	3022.	60.
20	1416.	523.	893.	312.	12: 1	3026.	47.
21	746.	558.	188.	208.	11:58	3031.	25.
22	910.	641.	269.	309.	12:28	3035.	30.
23	907.	590.	317.	238.	10:16	3040.	30.
24	656.	463.	193.	262.	12:36	3044.	22.
25	1503.	759.	743.	329.	13:58	3049.	49.
26	1338.	547.	791.	322.	13: 3	3054.	44.
27	729.	517.	211.	191.	9:45	3059.	24.
28	1510.	436.	1074.	329.	12:12	3064.	49.
29	1532.	625.	907.	332.	12:33	3069.	50.
30	1354.	655.	700.	302.	12:11	3075.	44.
31	933.	568.	365.	292.	13:48	3080.	30.
MEAN	1424.	544.	880.			3015.	
STANDARD DEVIATION	515.	123.	554.			34.	

ENVIRONMENTAL SUMMARY REPORT

SITE: UNIVERSITY OF MINNESOTA
MINNEAPOLIS, MINNESOTA

REPORT PERIOD: 81/ 7
SITE NUMBER: 131

LATITUDE: 45.00 DEG NORTH AZIMUTH: 5 DEG TIME ZONE: CENTRAL
LONGITUDE: 93.00 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 834 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	76.	82.	70.	92.	15:36	63.	4:56	N.A.
2	78.	85.	71.	92.	14:39	62.	4:36	N.A.
3	77.	82.	72.	94.	14:36	69.	2:53	N.A.
4	81.	88.	74.	98.	13:48	68.	5:27	N.A.
5	84.	94.	75.	103.	13:46	65.	4:33	N.A.
6	87.	95.	78.	103.	14: 2	69.	3:43	N.A.
7	85.	91.	79.	98.	12:31	73.	3:38	N.A.
8	83.	91.	75.	98.	11:21	66.	23:59	N.A.
9	79.	89.	70.	100.	14:49	59.	4:25	N.A.
10	82.	90.	74.	100.	15: 7	63.	3:55	N.A.
11	77.	79.	75.	90.	13:37	67.	4: 1	N.A.
12	77.	79.	75.	90.	15:34	71.	23:29	N.A.
13	81.	87.	75.	97.	14:35	69.	4: 6	N.A.
14	71.	73.	69.	79.	11:50	65.	18:47	N.A.
15	67.	68.	66.	76.	14:31	61.	7:19	N.A.
16	77.	84.	70.	96.	14:47	62.	2:41	N.A.
17	82.	90.	74.	100.	13:25	66.	4:27	N.A.
18	81.	89.	73.	98.	14:13	65.	4:58	N.A.
19	82.	90.	75.	101.	14:41	70.	4:26	N.A.
20	73.	77.	69.	91.	12:33	65.	23:37	N.A.
21	68.	70.	66.	79.	14:54	62.	6:59	N.A.
22	69.	73.	65.	84.	13:48	59.	2:25	N.A.
23	71.	76.	67.	91.	15:57	61.	22:34	N.A.
24	71.	74.	68.	85.	13:40	63.	4:42	N.A.
25	71.	75.	66.	85.	14:46	61.	23:50	N.A.
26	67.	73.	62.	86.	14:49	57.	23:53	N.A.
27	64.	69.	58.	76.	11:48	55.	2:17	N.A.
28	69.	76.	63.	86.	13: 5	54.	4:33	N.A.
29	70.	76.	64.	84.	12:33	55.	4:11	N.A.
30	77.	81.	72.	90.	13:57	68.	3: 1	N.A.
31	78.	81.	75.	92.	14:20	70.	1: 0	N.A.
MEAN	76.	82.	71.					N.A.
STANDARD DEVIATION	6.1	7.9	5.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: UNIVERSITY OF MINNESOTA
MINNEAPOLIS, MINNESOTA

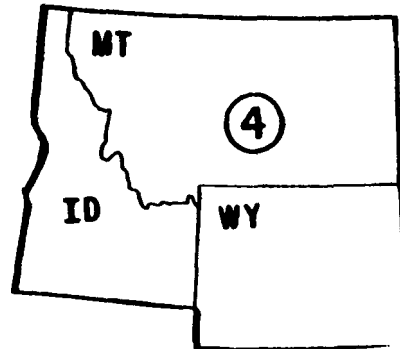
REPORT PERIOD: 81/ 7
SITE NUMBER: 131

LATITUDE: 45.00 DEG NORTH AZIMUTH: 5 DEG
LONGITUDE: 93.00 DEG WEST PYRANOMETER TILT: 45 DEG TIME_ZONE: CENTRAL
ALTITUDE: 834 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

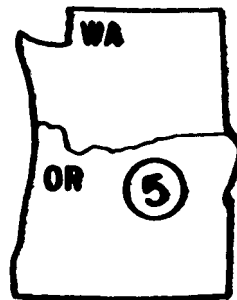
DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	*	2.	*	2.	9.	*	21:51
2	*	1.	*	1.	8.	*	15:11
3	*	0.	*	1.	6.	*	18:41
4	*	1.	*	2.	8.	*	16:33
5	*	1.	*	1.	6.	*	19:27
6	*	1.	*	1.	12.	*	17:46
7	*	1.	*	2.	11.	*	9: 3
8	254.	2.	241.	3.	13.	246.	14:44
9	*	1.	*	1.	6.	*	14:55
10	*	1.	*	1.	9.	*	16:22
11	*	2.	*	1.	11.	*	4:12
12	*	1.	*	1.	8.	*	9:21
13	82.	2.	83.	4.	11.	92.	10:51
14	80.	3.	79.	4.	14.	69.	17:31
15	*	2.	*	2.	11.	*	9: 1
16	*	0.	*	1.	9.	*	17:32
17	*	1.	*	2.	9.	*	14: 8
18	*	1.	*	1.	9.	*	11:44
19	*	1.	*	1.	10.	*	22:46
20	*	2.	*	3.	13.	*	9:53
21	*	2.	*	2.	8.	*	5: 2
22	*	1.	*	1.	10.	*	11: 2
23	*	1.	*	1.	10.	*	21:24
24	*	0.	*	1.	7.	*	16:58
25	*	1.	*	2.	9.	*	14:35
26	*	1.	*	1.	10.	*	14:23
27	*	1.	*	2.	11.	*	13: 8
28	*	1.	*	1.	10.	*	17:31
29	*	1.	*	2.	13.	*	14:35
30	*	1.	*	1.	10.	*	20:38
31	*	1.	*	2.	13.	*	14:14
MEAN	138.	1.	134.	2.			
STANDARD DEVIATION	99.7	0.7	92.7	0.9			

ZONE 4



NO VALID DATA

ZONE 5



ENVIRONMENTAL SUMMARY REPORT

SITE: LANDURA CORPORATION
STAYTON, OREGON

REPORT PERIOD: 81/ 7
SITE NUMBER: 156

LATITUDE: 45.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 0 DEG ALTITUDE: 1000 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	60.	64.	55.	72.	17: 9	44.	4: 25	82.
2	70.	76.	61.	89.	16: 11	47.	4: 36	83.
3	75.	82.	64.	93.	16: 25	56.	3: 50	85.
4	73.	77.	64.	87.	16: 25	54.	4: 20	86.
5	66.	69.	60.	80.	17: 1	53.	23: 25	87.
6	54.	55.	50.	66.	10: 53	47.	23: 41	86.
7	54.	57.	48.	71.	17: 55	44.	23: 57	84.
8	59.	65.	49.	78.	15: 21	39.	4: 40	84.
9	58.	62.	50.	72.	13: 23	47.	23: 50	84.
10	57.	62.	49.	71.	12: 6	44.	1: 15	83.
11	59.	64.	50.	72.	16: 34	44.	4: 28	83.
12	60.	65.	52.	78.	13: 52	44.	4: 44	84.
13	62.	66.	55.	77.	13: 14	50.	23: 58	84.
14	65.	69.	58.	78.	15: 15	49.	4: 19	83.
15	68.	72.	60.	84.	16: 51	48.	4: 35	85.
16	67.	73.	58.	85.	16: 8	50.	4: 35	86.
17	62.	66.	57.	79.	16: 46	50.	3: 46	86.
18	62.	65.	57.	76.	17: 18	49.	3: 20	86.
19	64.	69.	58.	78.	16: 27	49.	3: 52	86.
20	64.	67.	59.	77.	16: 25	55.	5: 31	86.
21	62.	65.	57.	74.	15: 10	52.	23: 58	86.
22	62.	67.	55.	76.	15: 7	51.	3: 58	86.
23	62.	66.	57.	76.	14: 51	52.	0: 26	86.
24	61.	63.	58.	71.	16: 29	55.	6: 50	85.
25	67.	71.	62.	83.	16: 56	55.	1: 28	86.
26	76.	83.	67.	92.	16: 12	56.	3: 46	87.
27	77.	84.	66.	95.	16: 58	60.	5: 5	89.
28	65.	70.	58.	78.	14: 48	52.	4: 36	89.
29	60.	64.	55.	70.	14: 49	50.	4: 14	88.
30	62.	66.	54.	74.	15: 28	44.	5: 6	87.
31	63.	68.	55.	78.	15: 32	45.	4: 27	87.
MEAN	64.	68.	57.					85.
STANDARD DEVIATION	5.8	6.7	4.9					1.7

ENVIRONMENTAL SUMMARY REPORT

SITE: MODENA HOMES
EUGENE, OREGON

REPORT PERIOD: 81/ 7
SITE NUMBER: 72

LATITUDE: 44.00 DEG NORTH
LONGITUDE: 123.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: PACIFIC
ALTITUDE: 359 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	202.	N.A.	N.A.	26.	11:45	874.	23.
2	194.	N.A.	N.A.	26.	10:46	879.	22.
3	200.	N.A.	N.A.	29.	12:40	884.	23.
4	281.	N.A.	N.A.	48.	11:52	888.	32.
5	325.	N.A.	N.A.	54.	10:49	892.	36.
6	98.	N.A.	N.A.	22.	9:24	898.	11.
7	*	N.A.	N.A.	*	*:*	903.	*
8	*	N.A.	N.A.	*	*:*	911.	*
9	337.	N.A.	N.A.	64.	10: 1	917.	37.
10	303.	N.A.	N.A.	61.	12: 8	923.	33.
11	*	N.A.	N.A.	*	*:*	932.	*
12	286.	N.A.	N.A.	48.	12:27	939.	30.
13	260.	N.A.	N.A.	41.	11:38	948.	27.
14	221.	N.A.	N.A.	35.	11:30	957.	23.
15	223.	N.A.	N.A.	29.	9:23	966.	23.
16	212.	N.A.	N.A.	29.	11:13	975.	22.
17	198.	N.A.	N.A.	67.	12:49	986.	20.
18	209.	N.A.	N.A.	61.	10:41	994.	21.
19	227.	N.A.	N.A.	67.	11:47	1006.	23.
20	199.	N.A.	N.A.	51.	10:27	1017.	20.
21	207.	N.A.	N.A.	57.	10:18	1027.	20.
22	262.	N.A.	N.A.	51.	9:44	1040.	25.
23	191.	N.A.	N.A.	54.	13:22	1053.	18.
24	226.	N.A.	N.A.	48.	13:11	1064.	21.
25	245.	N.A.	N.A.	57.	10:14	1078.	23.
26	205.	N.A.	N.A.	26.	9:52	1092.	19.
27	194.	N.A.	N.A.	26.	10:56	1104.	18.
28	184.	N.A.	N.A.	26.	14:29	1118.	16.
29	312.	N.A.	N.A.	57.	11:38	1133.	28.
30	208.	N.A.	N.A.	26.	10: 2	1148.	18.
31	210.	N.A.	N.A.	26.	9:32	1163.	18.
MEAN	229.	N.A.	N.A.			991.	
STANDARD DEVIATION	51.	N.A.	N.A.			89.	

ENVIRONMENTAL SUMMARY REPORT

SITE: MODENA HOMES
EUGENE, OREGON

REPORT PERIOD: 81/ 7
SITE NUMBER: 72

LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: PACIFIC
ALTITUDE: 359 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	62.	66.	59.	73.	16:38	47.	4:43	N.A.
2	69.	76.	66.	89.	17:14	49.	4:32	N.A.
3	76.	86.	71.	94.	16:29	55.	4:37	N.A.
4	74.	81.	70.	90.	15:20	57.	4:45	N.A.
5	68.	76.	64.	85.	16:15	54.	23:53	N.A.
6	56.	58.	54.	61.	12:47	52.	4:52	N.A.
7	*	*	*	*	*:*	*	*:*	N.A.
8	59.	*	59.	74.	18: 6	53.	23:21	N.A.
9	61.	67.	58.	73.	10:33	52.	1:29	N.A.
10	62.	67.	57.	75.	15:30	50.	4:29	N.A.
11	46.	*	46.	48.	1:56	45.	5: 3	N.A.
12	65.	70.	62.	77.	14:35	55.	21:57	N.A.
13	63.	71.	56.	75.	14:45	51.	4:43	N.A.
14	73.	76.	72.	81.	15:15	63.	23:53	N.A.
15	70.	75.	67.	87.	17: 0	53.	4:51	N.A.
16	68.	77.	64.	86.	15:13	53.	5: 0	N.A.
17	64.	67.	62.	86.	16:33	53.	2:57	N.A.
18	65.	69.	62.	81.	17:32	54.	2: 4	N.A.
19	66.	70.	63.	80.	16:30	52.	5: 0	N.A.
20	66.	71.	64.	79.	14:49	57.	5: 2	N.A.
21	65.	68.	63.	77.	16: 2	56.	2:45	N.A.
22	64.	68.	62.	78.	16:56	53.	3:47	N.A.
23	63.	65.	61.	77.	18:20	53.	1:49	N.A.
24	62.	64.	61.	73.	17:10	55.	0: 1	N.A.
25	69.	73.	67.	84.	16:33	57.	4:11	N.A.
26	77.	84.	72.	94.	15:38	56.	5:10	N.A.
27	78.	87.	73.	97.	16:42	60.	4:53	N.A.
28	68.	77.	63.	84.	14:24	54.	4:58	N.A.
29	63.	68.	61.	73.	16: 0	54.	23:54	N.A.
30	63.	69.	59.	76.	14:50	47.	4:42	N.A.
31	66.	72.	62.	80.	15:24	49.	5: 6	N.A.
MEAN	66.	72.	63.					N.A.
STANDARD DEVIATION	6.4	6.8	5.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: MODENA HOMES
EUGENE, OREGON

REPORT PERIOD: 81/ 7
SITE NUMBER: 72

LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 359 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	184.	7.	184.	12.	22.	187.	8:54
2	176.	4.	178.	8.	15.	149.	14:51
3	*	2.	*	3.	10.	*	15:14
4	144.	3.	174.	5.	13.	28.	23:14
5	78.	4.	119.	3.	18.	84.	17:13
6	72.	3.	71.	4.	12.	64.	15:59
7	*	*	*	*	*	*	*:*
8	50.	4.	*	0.	12.	74.	18: 6
9	125.	4.	141.	4.	15.	149.	14:12
10	94.	3.	69.	4.	12.	92.	12:29
11	*	0.	*	0.	2.	*	3:43
12	86.	5.	102.	6.	15.	85.	16:48
13	*	2.	*	3.	9.	*	11:43
14	172.	7.	166.	12.	21.	167.	17: 2
15	164.	4.	170.	5.	12.	160.	15:21
16	120.	4.	158.	4.	13.	167.	15:44
17	65.	3.	82.	2.	11.	88.	19:24
18	116.	3.	133.	3.	11.	111.	12:17
19	168.	4.	162.	7.	14.	193.	15:31
20	177.	5.	171.	7.	14.	167.	15:10
21	180.	5.	175.	7.	17.	201.	13:30
22	174.	5.	172.	8.	15.	161.	12:40
23	144.	3.	143.	5.	13.	117.	15:36
24	183.	5.	179.	7.	13.	202.	16:38
25	182.	4.	176.	7.	20.	180.	14:51
26	177.	4.	174.	7.	17.	184.	17: 4
27	154.	4.	171.	6.	15.	160.	16:58
28	113.	3.	150.	4.	18.	106.	17: 9
29	173.	5.	167.	6.	14.	194.	17:52
30	175.	5.	176.	9.	17.	154.	12: 0
31	176.	4.	171.	7.	15.	230.	16:11
MEAN	142.	4.	151.	6.			
STANDARD DEVIATION	42.9	1.4	34.7	2.4			

ENVIRONMENTAL SUMMARY REPORT

SITE: MODENA HOMES
EUGENE, OREGON

REPORT PERIOD: 81/ 7
SITE NUMBER: 72

LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: PACIFIC
ALTITUDE: 359 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	9	4	9	2	0	0	0	0	0
2	12	6	6	0	0	0	0	0	0
3	18	6	0	0	0	0	0	0	0
4	11	13	0	0	0	0	0	0	0
5	15	5	4	0	0	0	0	0	0
6	11	6	0	0	0	0	0	0	7
7	0	0	0	0	0	0	0	0	24
8	3	3	1	0	0	0	0	0	17
9	15	7	2	0	0	0	0	0	0
10	10	8	0	0	0	0	0	0	6
11	5	0	0	0	0	0	0	0	19
12	8	3	5	0	0	0	0	0	8
13	13	1	0	0	0	0	0	0	10
14	5	1	5	1	0	0	0	0	12
15	13	10	1	0	0	0	0	0	0
16	14	8	2	0	0	0	0	0	0
17	20	4	0	0	0	0	0	0	0
18	16	8	0	0	0	0	0	0	0
19	10	13	1	0	0	0	0	0	0
20	9	11	4	0	0	0	0	0	0
21	12	6	6	0	0	0	0	0	0
22	10	11	3	0	0	0	0	0	0
23	16	8	0	0	0	0	0	0	0
24	8	15	1	0	0	0	0	0	0
25	15	6	3	0	0	0	0	0	0
26	14	5	5	0	0	0	0	0	0
27	13	7	4	0	0	0	0	0	0
28	16	5	2	1	0	0	0	0	0
29	11	11	2	0	0	0	0	0	0
30	12	3	9	0	0	0	0	0	0
31	11	8	4	0	0	0	0	0	1
AVERAGE	11.5	6.5	2.5	0.1	0.0	0.0	0.0	0.0	3.4
TOTAL	355	202	79	4	0	0	0	0	104

ENVIRONMENTAL SUMMARY REPORT

SITE: MODENA HOMES
EUGENE, OREGON

REPORT PERIOD: 81/ 7
SITE NUMBER: 72

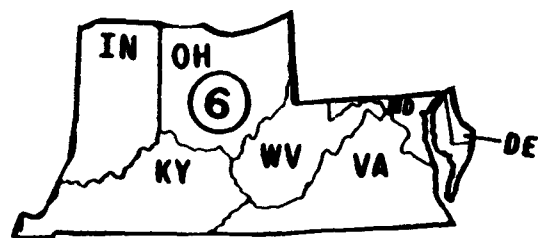
LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 89 DEG

TIME ZONE: PACIFIC
ALTITUDE: 359 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM HUMIDITY VALUE	HUMIDITY TIME HR:MN	MINIMUM HUMIDITY VALUE	HUMIDITY TIME HR:MN
1	41.	30.	46.	69.	4:59	23.	15:23
2	36.	27.	41.	68.	4:48	12.	16:37
3	30.	17.	38.	64.	3:33	6.	15:14
4	32.	24.	36.	56.	3:41	17.	17:1
5	31.	25.	34.	48.	6:16	16.	18:49
6	44.	38.	48.	66.	15:27	28.	10:33
7	*	*	*	*	*:*	*	*:*
8	29.	0.	29.	41.	23:53	19.	18:6
9	34.	28.	37.	48.	5:8	20.	10:39
10	33.	24.	42.	58.	4:56	15.	15:14
11	66.	0.	66.	69.	3:48	62.	2:23
12	33.	25.	37.	51.	23:39	16.	14:35
13	38.	20.	52.	63.	5:4	14.	14:7
14	26.	22.	28.	49.	23:59	13.	16:9
15	38.	29.	44.	72.	5:2	14.	17:0
16	39.	26.	46.	69.	5:16	15.	15:2
17	48.	38.	54.	70.	3:13	19.	16:33
18	48.	38.	55.	76.	2:36	22.	16:28
19	49.	41.	53.	74.	5:37	25.	18:1
20	48.	35.	55.	74.	3:31	20.	16:3
21	45.	34.	51.	71.	2:55	17.	16:2
22	45.	34.	52.	73.	4:13	20.	17:49
23	49.	44.	53.	70.	2:16	24.	16:49
24	49.	42.	52.	67.	0:28	28.	17:10
25	44.	36.	49.	71.	4:17	19.	16:43
26	34.	24.	41.	68.	5:26	11.	16:10
27	30.	19.	36.	59.	4:10	8.	15:38
28	33.	22.	40.	54.	5:25	15.	13:20
29	36.	26.	43.	54.	23:54	19.	11:49
30	42.	29.	50.	74.	4:0	18.	14:50
31	40.	30.	47.	68.	3:8	15.	15:35
MEAN	40.	30.	45.				
STANDARD DEVIATION	9.	7.	9.				

ZONE 6



ENVIRONMENTAL SUMMARY REPORT

SITE: BAKER CONSTRUCTION
CINCINNATI, OHIO

REPORT PERIOD: 81/ 7
SITE NUMBER: 63

LATITUDE: 39.07 DEG NORTH
LONGITUDE: 84.30 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 62 DEG

TIME ZONE: CENTRAL
ALTITUDE: 550 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	998.	N.A.	N.A.	233.	11:30	1994.	50.
2	672.	N.A.	N.A.	201.	13:18	1997.	34.
3	938.	N.A.	N.A.	224.	11:34	1999.	47.
4	664.	N.A.	N.A.	194.	11: 9	2004.	33.
5	387.	N.A.	N.A.	118.	10:39	2009.	19.
6	865.	N.A.	N.A.	197.	11:27	2014.	43.
7	1201.	N.A.	N.A.	243.	12: 5	2020.	59.
8	1347.	N.A.	N.A.	240.	12:46	2025.	66.
9	1515.	N.A.	N.A.	256.	11:27	2030.	75.
10	1377.	N.A.	N.A.	240.	12:16	2036.	68.
11	1666.	N.A.	N.A.	250.	11:42	2041.	82.
12	1217.	N.A.	N.A.	214.	13:43	2048.	59.
13	1303.	N.A.	N.A.	227.	11:30	2056.	63.
14	1538.	N.A.	N.A.	270.	9:57	2064.	74.
15	1005.	N.A.	N.A.	237.	11: 6	2073.	48.
16	1114.	N.A.	N.A.	253.	12:16	2079.	54.
17	1265.	N.A.	N.A.	230.	11:27	2089.	61.
18	1499.	N.A.	N.A.	233.	12:26	2098.	71.
19	414.	N.A.	N.A.	253.	13:34	2106.	20.
20	772.	N.A.	N.A.	237.	13: 4	2116.	36.
21	1087.	N.A.	N.A.	266.	11:59	2124.	51.
22	1053.	N.A.	N.A.	263.	11:24	2135.	49.
23	1092.	N.A.	N.A.	224.	11:22	2146.	51.
24	1431.	N.A.	N.A.	240.	11:42	2155.	66.
25	1076.	N.A.	N.A.	237.	11:52	2167.	50.
26	1062.	N.A.	N.A.	253.	12:49	2179.	49.
27	898.	N.A.	N.A.	240.	10:48	2189.	41.
28	653.	N.A.	N.A.	201.	14:19	2199.	30.
29	604.	N.A.	N.A.	174.	11:34	2212.	27.
30	1749.	N.A.	N.A.	263.	11:55	2225.	79.
31	1622.	N.A.	N.A.	247.	11:50	2236.	73.
MEAN	1099.	N.A.	N.A.			2092.	
STANDARD DEVIATION	362.	N.A.	N.A.			75.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BAKER CONSTRUCTION
CINCINNATI, OHIO

REPORT PERIOD: 81/ 7
SITE NUMBER: 63

LATITUDE: 39.07 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 84.30 DEG WEST PYRANOMETER TILT: 62 DEG ALTITUDE: 550 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	76.	80.	74.	87.	13:44	68.	6:16	N.A.
2	72.	75.	69.	82.	13:18	67.	22:52	N.A.
3	74.	78.	71.	87.	16:13	66.	1:48	N.A.
4	72.	77.	69.	88.	11:19	65.	5:22	N.A.
5	73.	75.	72.	79.	10:45	69.	6:15	N.A.
6	79.	83.	76.	90.	14:45	70.	1:51	N.A.
7	81.	87.	77.	99.	17:34	69.	4:26	N.A.
8	84.	90.	79.	100.	18:12	71.	5:29	N.A.
9	85.	90.	81.	99.	16:10	73.	4:52	N.A.
10	81.	85.	77.	90.	18:43	65.	23:58	N.A.
11	76.	86.	69.	100.	16:40	57.	5:28	N.A.
12	79.	87.	73.	101.	17:59	58.	4:46	N.A.
13	85.	90.	80.	99.	17:11	72.	5:49	N.A.
14	80.	84.	78.	92.	18:6	68.	23:38	N.A.
15	74.	77.	71.	83.	11:16	65.	6:12	N.A.
16	78.	82.	74.	91.	15:17	69.	2:13	N.A.
17	80.	87.	74.	97.	17:3	67.	2:45	N.A.
18	79.	88.	72.	98.	15:38	63.	5:41	N.A.
19	74.	79.	71.	88.	11:39	68.	4:26	N.A.
20	80.	83.	78.	92.	18:30	69.	23:54	N.A.
21	75.	79.	72.	84.	12:58	68.	2:29	N.A.
22	72.	76.	68.	83.	14:26	63.	4:55	N.A.
23	71.	77.	66.	82.	10:40	58.	5:30	N.A.
24	77.	84.	71.	94.	14:22	63.	6:0	N.A.
25	79.	86.	74.	96.	13:49	65.	5:28	N.A.
26	81.	85.	78.	91.	15:56	74.	0:8	N.A.
27	78.	81.	76.	90.	15:58	69.	6:0	N.A.
28	76.	79.	74.	86.	14:57	66.	23:39	N.A.
29	65.	67.	63.	74.	15:44	58.	23:55	N.A.
30	67.	74.	62.	82.	17:20	52.	5:52	N.A.
31	73.	81.	66.	94.	15:8	55.	5:0	N.A.
MEAN	77.	82.	73.					N.A.
STANDARD DEVIATION	4.8	5.5	4.8					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: BAKER CONSTRUCTION
CINCINNATI, OHIO

REPORT PERIOD: 81/ 7
SITE NUMBER: 63

LATITUDE: 39.07 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 84.30 DEG WEST PYRANOMETER TILT: 62 DEG

TIME ZONE: CENTRAL
ALTITUDE: 550 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM VALUE	HUMIDITY TIME HR:MN	MINIMUM VALUE	HUMIDITY TIME HR:MN
1	78.	72.	84.	*	*:*	37.	16:45
2	91.	79.	100.	*	*:*	54.	13:34
3	85.	78.	91.	*	*:*	49.	16:23
4	93.	85.	100.	*	*:*	50.	11:25
5	99.	99.	100.	*	*:*	88.	10:50
6	84.	74.	93.	*	*:*	51.	14:50
7	80.	66.	91.	*	*:*	42.	14:34
8	75.	58.	88.	*	*:*	36.	16:46
9	73.	57.	86.	*	*:*	39.	15:59
10	75.	67.	82.	*	*:*	37.	17:30
11	62.	36.	82.	*	*:*	16.	17: 7
12	70.	52.	85.	*	*:*	29.	15:41
13	76.	58.	91.	*	*:*	43.	16:29
14	75.	62.	83.	*	*:*	33.	18:11
15	68.	52.	80.	*	*:*	28.	11:16
16	83.	72.	92.	*	*:*	47.	15:17
17	69.	48.	86.	*	*:*	27.	17:19
18	67.	45.	86.	*	*:*	23.	16:47
19	95.	89.	100.	*	*:*	61.	11:50
20	88.	85.	91.	*	*:*	53.	17:58
21	85.	74.	95.	*	*:*	51.	12:53
22	81.	71.	90.	*	*:*	44.	15:19
23	73.	53.	92.	*	*:*	37.	10:40
24	73.	52.	90.	*	*:*	33.	14:16
25	80.	65.	92.	*	*:*	38.	14: 0
26	81.	68.	92.	*	*:*	45.	16:33
27	92.	84.	98.	*	*:*	58.	15:58
28	94.	90.	98.	*	*:*	61.	15: 2
29	85.	75.	93.	*	*:*	52.	15:50
30	68.	46.	86.	*	*:*	30.	17:31
31	73.	49.	93.	*	*:*	31.	15:24
MEAN	80.	66.	91.				
STANDARD DEVIATION	10.	15.	6.				

ENVIRONMENTAL SUMMARY REPORT

SITE: FOREST CITY DILLON
WASHINGTON, D.C.

REPORT PERIOD: 81/ 7
SITE NUMBER: 125

LATITUDE: 38.80 DEG NORTH
LONGITUDE: 77.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: EASTERN
ALTITUDE: 250 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1280.	N.A.	N.A.	314.	12:11	2921.	44.
2	1488.	N.A.	N.A.	328.	12:26	2923.	51.
3	769.	N.A.	N.A.	195.	9: 7	2925.	26.
4	598.	N.A.	N.A.	294.	14:22	2927.	20.
5	676.	N.A.	N.A.	190.	11: 8	2929.	23.
6	1122.	N.A.	N.A.	274.	13:21	2931.	38.
7	1952.	N.A.	N.A.	286.	11:38	2934.	67.
8	*	N.A.	N.A.	*	*:*	2937.	*
9	*	N.A.	N.A.	*	*:*	2940.	*
10	*	N.A.	N.A.	*	*:*	2943.	*
11	*	N.A.	N.A.	*	*:*	2946.	*
12	*	N.A.	N.A.	*	*:*	2950.	*
13	*	N.A.	N.A.	*	*:*	2953.	*
14	*	N.A.	N.A.	*	*:*	2957.	*
15	*	N.A.	N.A.	322.	11:45	2961.	*
16	543.	N.A.	N.A.	127.	8:24	2965.	18.
17	1902.	N.A.	N.A.	305.	12: 6	2969.	64.
18	1695.	N.A.	N.A.	280.	11:22	2974.	57.
19	*	N.A.	N.A.	*	*:*	2978.	*
20	*	N.A.	N.A.	*	*:*	2983.	*
21	1650.	N.A.	N.A.	311.	12:40	2988.	55.
22	1704.	N.A.	N.A.	325.	12:13	2993.	57.
23	2250.	N.A.	N.A.	305.	12:17	2998.	75.
24	806.	N.A.	N.A.	212.	9:11	3003.	27.
25	333.	N.A.	N.A.	88.	14:48	3008.	11.
26	1424.	N.A.	N.A.	286.	12:28	3014.	47.
27	1781.	N.A.	N.A.	280.	11: 9	3019.	59.
28	853.	N.A.	N.A.	190.	14:27	3025.	28.
29	2069.	N.A.	N.A.	328.	12: 6	3030.	68.
30	2254.	N.A.	N.A.	305.	12:33	3036.	74.
31	1799.	N.A.	N.A.	334.	11:54	3042.	59.
MEAN	1449.*	N.A.	N.A.			2971.	
STANDARD DEVIATION	672.*	N.A.	N.A.			38.	

ENVIRONMENTAL SUMMARY REPORT

SITE: FOREST CITY DILLON
WASHINGTON, D.C.

REPORT PERIOD: 81/ 7
SITE NUMBER: 125

LATITUDE: 38.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 77.00 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 250 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	71.	73.	68.	82.	12:11	65.	14:18	80.
2	73.	76.	70.	82.	13: 3	66.	2:52	80.
3	72.	75.	70.	79.	13: 2	67.	6: 1	80.
4	69.	70.	68.	79.	15: 5	65.	4:19	79.
5	74.	78.	70.	86.	11:24	66.	4:30	79.
6	79.	84.	75.	91.	13:53	71.	5: 6	79.
7	79.	85.	73.	91.	11:12	72.	4: 5	79.
8	*	*	*	*	*:*	*	*:*	*
9	*	*	*	*	*:*	*	*:*	*
10	*	*	*	*	*:*	*	*:*	*
11	*	*	*	*	*:*	*	*:*	*
12	*	*	*	*	*:*	*	*:*	*
13	*	*	*	*	*:*	*	*:*	*
14	*	*	*	*	*:*	*	*:*	*
15	77.	77.	0.	85.	13:21	71.	7:18	83.
16	74.	77.	71.	85.	8:24	66.	5: 4	83.
17	76.	82.	68.	91.	12:16	66.	4:44	83.
18	76.	85.	68.	94.	10:23	66.	5:14	83.
19	81.	83.	75.	88.	8:11	74.	5:38	82.
20	*	*	*	*	*:*	*	*:*	*
21	86.	91.	80.	97.	14:22	76.	23:46	83.
22	76.	79.	74.	85.	13: 1	71.	5:17	83.
23	73.	77.	70.	85.	13:32	64.	5:25	83.
24	72.	75.	69.	82.	9:11	63.	5:16	83.
25	69.	68.	70.	73.	17:54	65.	11:57	83.
26	79.	85.	74.	94.	12:44	71.	0:34	83.
27	81.	86.	76.	93.	15:43	72.	3: 6	83.
28	75.	78.	73.	85.	16:40	70.	19:18	82.
29	76.	80.	71.	83.	8:38	64.	23:56	82.
30	73.	78.	67.	88.	15:35	58.	5: 0	82.
31	75.	82.	70.	90.	12:47	62.	3:17	82.
MEAN	76.	79.	71.					82.
STANDARD DEVIATION	4.1	5.3	3.3					1.7

ENVIRONMENTAL SUMMARY REPORT

SITE: HOGATE'S RESTAURANT
WASHINGTON, D.C.

REPORT PERIOD: 81/ 7
SITE NUMBER: 42

LATITUDE: 38.90 DEG NORTH
LONGITUDE: 77.00 DEG WEST

AZIMUTH: 45 DEG
PYRANOMETER TILT: 55 DEG

TIME ZONE: EASTERN
ALTITUDE: 10 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	882.	N.A.	N.A.	272.	13:19	2690.	33.
2	893.	N.A.	N.A.	255.	13: 4	2693.	33.
3	438.	N.A.	N.A.	145.	12: 3	2693.	16.
4	429.	N.A.	N.A.	181.	15:13	2696.	16.
5	387.	N.A.	N.A.	124.	10:52	2697.	14.
6	1035.	N.A.	N.A.	261.	13:37	2700.	38.
7	1322.	N.A.	N.A.	264.	14: 4	2700.	49.
8	1312.	N.A.	N.A.	264.	14:14	2701.	49.
9	1281.	N.A.	N.A.	258.	13:47	2704.	47.
10	1416.	N.A.	N.A.	290.	13:52	2707.	52.
11	1357.	N.A.	N.A.	269.	14:21	2710.	50.
12	1380.	N.A.	N.A.	272.	14: 1	2714.	51.
13	736.	N.A.	N.A.	187.	15:37	2714.	27.
14	1342.	N.A.	N.A.	278.	14:28	2718.	49.
15	1313.	N.A.	N.A.	287.	14: 6	2721.	48.
16	301.	N.A.	N.A.	65.	10:29	2724.	11.
17	702.	N.A.	N.A.	252.	14:41	2728.	26.
18	1038.	N.A.	N.A.	258.	13:15	2731.	38.
19	1209.	N.A.	N.A.	258.	13:54	2732.	44.
20	1075.	N.A.	N.A.	234.	13:22	2738.	39.
21	997.	N.A.	N.A.	269.	14:20	2741.	36.
22	1093.	N.A.	N.A.	281.	12:58	2745.	40.
23	1380.	N.A.	N.A.	329.	14:18	2749.	50.
24	450.	N.A.	N.A.	136.	10:58	2751.	16.
25	156.	N.A.	N.A.	121.	14: 7	2755.	6.
26	1106.	N.A.	N.A.	246.	12:58	2761.	40.
27	1232.	N.A.	N.A.	255.	13:19	2762.	45.
28	566.	N.A.	N.A.	213.	14:45	2767.	20.
29	1374.	N.A.	N.A.	284.	14: 6	2771.	50.
30	1405.	N.A.	N.A.	281.	14:14	2776.	51.
31	1118.	N.A.	N.A.	293.	14: 7	2777.	40.
MEAN	991.	N.A.	N.A.			2728.	
STANDARD DEVIATION	384.	N.A.	N.A.			27.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HOGATE'S RESTAURANT
WASHINGTON, D.C.

REPORT PERIOD: 81/ 7
SITE NUMBER: 42

LATITUDE: 38.90 DEG NORTH AZIMUTH: 45 DEG TIME ZONE: EASTERN
LONGITUDE: 77.00 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 10 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	72.	75.	69.	83.	12:10	66.	19:28	80.
2	74.	76.	73.	83.	12:27	67.	3: 7	80.
3	74.	75.	74.	81.	12:14	68.	5:45	80.
4	70.	69.	71.	78.	18:14	66.	5:42	80.
5	74.	76.	73.	82.	12:28	68.	4:49	79.
6	79.	80.	78.	90.	15:19	71.	5: 0	78.
7	83.	85.	81.	94.	14: 9	73.	3:19	78.
8	85.	87.	83.	96.	14: 4	75.	5: 0	79.
9	89.	90.	88.	99.	15:44	79.	4:59	81.
10	87.	89.	86.	98.	15: 6	77.	23:57	82.
11	84.	88.	81.	98.	16: 7	71.	3:35	84.
12	84.	87.	82.	98.	15: 5	71.	4:50	84.
13	84.	86.	83.	93.	10:22	74.	3:26	85.
14	84.	87.	81.	93.	14: 7	73.	23:58	85.
15	77.	78.	76.	90.	16:20	65.	4:30	85.
16	74.	76.	73.	80.	8:16	68.	4: 5	84.
17	80.	83.	77.	93.	14:46	69.	4:49	83.
18	83.	86.	80.	98.	13:20	69.	4:48	82.
19	85.	88.	82.	97.	15:41	72.	5:15	82.
20	83.	87.	81.	97.	14:10	71.	18:15	83.
21	83.	85.	81.	96.	14:26	71.	14:58	84.
22	79.	80.	77.	89.	14:50	72.	5: 0	85.
23	76.	77.	76.	89.	16:16	66.	4:53	84.
24	74.	75.	74.	81.	10:58	68.	5:28	84.
25	70.	68.	72.	73.	0:15	66.	10:29	83.
26	79.	83.	77.	91.	14:18	72.	22:55	82.
27	81.	84.	79.	92.	14:44	72.	2:55	81.
28	77.	78.	76.	89.	16:25	72.	21:56	81.
29	76.	80.	73.	83.	8:36	65.	23:56	81.
30	74.	77.	72.	89.	15:34	60.	5:26	81.
31	78.	82.	75.	92.	14:34	65.	5:19	81.
MEAN	79.	81.	78.					82.
STANDARD DEVIATION	5.1	5.8	4.6					2.1

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 33

LATITUDE: 39.10 DEG NORTH
LONGITUDE: 77.60 DEG WEST

AZIMUTH: 15 DEG
PYRANOMETER TILT: 37 DEG

TIME ZONE: EASTERN
ALTITUDE: 400 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1190.	N.A.	N.A.	302.	13:45	3066.	39.
2	1051.	N.A.	N.A.	293.	12: 6	3067.	34.
3	720.	N.A.	N.A.	230.	10:27	3068.	23.
4	525.	N.A.	N.A.	154.	12:23	3070.	17.
5	559.	N.A.	N.A.	139.	12:29	3071.	18.
6	1578.	N.A.	N.A.	278.	12:18	3073.	51.
7	2039.	N.A.	N.A.	290.	13: 1	3075.	66.
8	1927.	N.A.	N.A.	284.	12:51	3077.	63.
9	1857.	N.A.	N.A.	293.	13: 7	3079.	60.
10	1919.	N.A.	N.A.	287.	13:16	3081.	62.
11	2064.	N.A.	N.A.	296.	13:15	3087.	67.
12	2044.	N.A.	N.A.	299.	13:35	3089.	66.
13	1108.	N.A.	N.A.	260.	14:29	3092.	36.
14	1940.	N.A.	N.A.	305.	13:31	3095.	63.
15	2093.	N.A.	N.A.	317.	14: 9	3097.	68.
16	473.	N.A.	N.A.	160.	14: 5	3100.	15.
17	1899.	N.A.	N.A.	320.	13: 6	3103.	61.
18	2019.	N.A.	N.A.	302.	13: 9	3107.	65.
19	1908.	N.A.	N.A.	308.	13:16	3110.	61.
20	1551.	N.A.	N.A.	278.	12:34	3113.	50.
21	1129.	N.A.	N.A.	305.	12:46	3117.	36.
22	1859.	N.A.	N.A.	293.	14: 5	3120.	60.
23	2150.	N.A.	N.A.	323.	13: 0	3124.	69.
24	364.	N.A.	N.A.	145.	15:38	3127.	12.
25	185.	N.A.	N.A.	42.	15: 7	3131.	6.
26	1169.	N.A.	N.A.	275.	14:41	3135.	37.
27	1742.	N.A.	N.A.	287.	13:37	3139.	55.
28	920.	N.A.	N.A.	257.	13:55	3143.	29.
29	1707.	N.A.	N.A.	320.	13:25	3147.	54.
30	2115.	N.A.	N.A.	302.	13: 7	3151.	67.
31	1449.	N.A.	N.A.	308.	13:52	3155.	46.
MEAN	1460.	N.A.	N.A.			3103.	
STANDARD DEVIATION	608.	N.A.	N.A.			28.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 33

LATITUDE: 39.10 DEG NORTH
LONGITUDE: 77.60 DEG WEST

AZIMUTH: 15 DEG
PYRANOMETER TILT: 37 DEG

TIME ZONE: EASTERN
ALTITUDE: 400 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	71.	73.	68.	84.	13:45	65.	1: 7	78.
2	71.	74.	68.	83.	12:43	65.	5:10	74.
3	72.	74.	69.	81.	11:15	66.	23:57	79.
4	68.	68.	67.	73.	17:17	65.	23:46	79.
5	72.	75.	68.	82.	12:45	62.	4:29	71.
6	79.	83.	74.	91.	15:46	69.	1:11	75.
7	82.	86.	78.	93.	13:55	71.	4: 2	76.
8	84.	89.	79.	97.	14:48	71.	5: 2	72.
9	87.	92.	81.	99.	13:23	74.	4:56	74.
10	84.	88.	80.	93.	15:40	75.	23:55	75.
11	81.	86.	75.	94.	16:11	68.	23:29	82.
12	81.	88.	73.	96.	14:45	62.	4:43	73.
13	83.	86.	79.	93.	9:57	73.	3:11	75.
14	81.	86.	75.	92.	14:30	67.	23: 8	78.
15	73.	78.	69.	87.	14:57	62.	4:54	75.
16	70.	73.	68.	80.	14:53	61.	4: 8	77.
17	76.	82.	69.	91.	14:37	61.	4: 8	77.
18	79.	86.	71.	97.	13:20	62.	2:18	84.
19	83.	90.	76.	99.	14:42	64.	5: 9	74.
20	81.	87.	75.	97.	14:58	71.	17:13	79.
21	80.	84.	76.	94.	15:16	70.	5: 2	75.
22	76.	80.	72.	86.	13:38	65.	23:45	76.
23	72.	76.	67.	85.	15:40	59.	5:10	76.
24	67.	69.	65.	72.	15:43	60.	3:48	80.
25	69.	69.	69.	73.	16:33	66.	3:18	81.
26	76.	81.	71.	91.	14:52	69.	2:41	74.
27	79.	84.	73.	91.	14:20	69.	22:53	79.
28	73.	76.	71.	86.	15:57	69.	9:12	78.
29	73.	77.	69.	81.	9:57	61.	23:52	79.
30	71.	76.	65.	86.	15:25	57.	4:29	77.
31	72.	79.	66.	89.	13:52	57.	4:32	74.
MEAN	76.	80.	72.					77.
STANDARD DEVIATION	5.5	6.8	4.6					2.9

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 33

LATITUDE: 39.10 DEG NORTH AZIMUTH: 15 DEG TIME ZONE: EASTERN
LONGITUDE: 77.60 DEG WEST PYRANOMETER TILT: 37 DEG ALTITUDE: 400 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	216.	3.	226.	4.	17.	240.	14:49
2	*	0.	*	0.	10.	*	20:33
3	*	*	*	*	*	*	*:*
4	*	0.	*	0.	6.	*	8:55
5	*	*	*	*	*	*	*:*
6	*	*	*	*	*	*	*:*
7	*	0.	*	0.	11.	*	14:27
8	*	1.	*	1.	12.	*	10:59
9	*	1.	*	1.	18.	*	11:36
10	*	0.	*	1.	12.	*	14:25
11	*	0.	*	0.	7.	*	11:55
12	*	0.	*	0.	8.	*	11:54
13	*	0.	*	0.	3.	*	14:29
14	*	1.	*	3.	15.	*	15:23
15	*	0.	*	0.	8.	*	9:32
16	*	0.	*	0.	8.	*	11:9
17	*	0.	*	0.	3.	*	14:26
18	*	*	*	*	*	*	*:*
19	*	0.	*	0.	9.	*	12:18
20	6.	2.	5.	4.	15.	347.	16:2
21	*	0.	*	1.	13.	*	12:46
22	*	1.	*	2.	12.	*	14:26
23	*	0.	*	0.	13.	*	12:33
24	*	*	*	*	*	*	*:*
25	*	*	*	*	*	*	*:*
26	*	1.	*	2.	13.	*	14:36
27	*	1.	*	1.	10.	*	9:32
28	*	0.	*	0.	11.	*	18:3
29	103.	2.	101.	4.	21.	125.	10:19
30	*	0.	*	0.	7.	*	4:8
31	*	0.	*	0.	8.	*	15:34
MEAN	108.	1.	111.	1.			
STANDARD DEVIATION	105.0	0.8	111.1	1.4			

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 33

LATITUDE: 39.10 DEG NORTH AZIMUTH: 15 DEG TIME ZONE: EASTERN
LONGITUDE: 77.60 DEG WEST PYRANOMETER TILT: 37 DEG ALTITUDE: 400 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	18	2	4	0	0	0	0	0	0
2	24	0	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	24	0	0	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	23	1	0	0	0	0	0	0	0
10	24	0	0	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	20	4	0	0	0	0	0	0	0
15	24	0	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	18	4	2	0	0	0	0	0	0
21	24	0	0	0	0	0	0	0	0
22	24	0	0	0	0	0	0	0	0
23	24	0	0	0	0	0	0	0	0
24	24	0	0	0	0	0	0	0	0
25	24	0	0	0	0	0	0	0	0
26	21	3	0	0	0	0	0	0	0
27	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	18	4	2	0	0	0	0	0	0
30	24	0	0	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	23.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	717	18	8	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: RYMARK II
FREDERICK, MARYLAND

REPORT PERIOD: 81/ 7
SITE NUMBER: 224

LATITUDE: 39.30 DEG NORTH
LONGITUDE: 77.25 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: EASTERN
ALTITUDE: 290 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	529.	N.A.	N.A.	150.	10:44	640.	83.
2	471.	N.A.	N.A.	161.	11:21	643.	73.
3	322.	N.A.	N.A.	124.	10:20	648.	50.
4	146.	N.A.	N.A.	46.	14: 5	653.	22.
5	219.	N.A.	N.A.	81.	11:50	657.	33.
6	702.	N.A.	N.A.	130.	12:11	663.	106.
7	679.	N.A.	N.A.	124.	10:41	668.	102.
8	716.	N.A.	N.A.	124.	11: 3	675.	106.
9	691.	N.A.	N.A.	127.	11:13	681.	102.
10	657.	N.A.	N.A.	138.	10:48	688.	95.
11	669.	N.A.	N.A.	124.	10:46	694.	96.
12	688.	N.A.	N.A.	124.	10:35	703.	98.
13	540.	N.A.	N.A.	124.	11:35	711.	76.
14	644.	N.A.	N.A.	141.	11:43	719.	90.
15	695.	N.A.	N.A.	147.	11:42	728.	96.
16	227.	N.A.	N.A.	63.	7:33	737.	31.
17	746.	N.A.	N.A.	127.	11:17	747.	100.
18	*	N.A.	N.A.	*	*:*	757.	*
19	607.	N.A.	N.A.	130.	12:10	767.	79.
20	567.	N.A.	N.A.	135.	10:39	777.	73.
21	371.	N.A.	N.A.	132.	12:22	788.	47.
22	596.	N.A.	N.A.	144.	12:16	800.	74.
23	756.	N.A.	N.A.	135.	10:47	812.	93.
24	188.	N.A.	N.A.	78.	10: 6	825.	23.
25	39.	N.A.	N.A.	17.	13:58	837.	5.
26	423.	N.A.	N.A.	132.	11:50	850.	50.
27	*	N.A.	N.A.	*	*:*	864.	*
28	*	N.A.	N.A.	*	*:*	877.	*
29	*	N.A.	N.A.	*	*:*	892.	*
30	*	N.A.	N.A.	*	*:*	907.	*
31	*	N.A.	N.A.	*	*:*	922.	*
MEAN	516.	N.A.	N.A.			753.	
STANDARD DEVIATION	214.	N.A.	N.A.			87.	

ENVIRONMENTAL SUMMARY REPORT

SITE: RYMARK II
FREDERICK, MARYLAND

REPORT PERIOD: 81/ 7
SITE NUMBER: 224

LATITUDE: 39.30 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 77.25 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: EASTERN
ALTITUDE: 290 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	72.	78.	69.	83.	14:54	65.	0:14	N.A.
2	73.	78.	71.	83.	12:30	66.	4:41	N.A.
3	73.	78.	70.	83.	15:9	67.	1:0	N.A.
4	69.	68.	70.	79.	18:31	65.	8:45	N.A.
5	73.	77.	71.	83.	17:53	65.	4:34	N.A.
6	78.	84.	75.	89.	12:38	67.	4:22	N.A.
7	81.	86.	79.	95.	18:25	68.	4:54	N.A.
8	84.	89.	82.	95.	16:34	72.	5:16	N.A.
9	87.	91.	85.	96.	16:1	77.	5:16	N.A.
10	84.	87.	82.	94.	17:12	72.	23:55	N.A.
11	80.	86.	77.	100.	17:20	65.	4:27	N.A.
12	81.	88.	77.	99.	16:50	65.	4:59	N.A.
13	83.	86.	81.	92.	16:44	75.	5:16	N.A.
14	80.	85.	77.	87.	13:29	69.	23:58	N.A.
15	74.	78.	72.	90.	17:23	61.	5:13	N.A.
16	72.	77.	70.	81.	15:39	64.	1:36	N.A.
17	76.	82.	72.	95.	16:53	61.	4:47	N.A.
18	*	*	*	*	*:*	*	*:*	N.A.
19	89.	94.	87.	99.	17:57	80.	23:59	N.A.
20	81.	89.	77.	97.	15:11	74.	20:5	N.A.
21	79.	82.	77.	90.	17:32	72.	4:44	N.A.
22	75.	79.	73.	85.	17:15	66.	23:56	N.A.
23	70.	75.	68.	91.	16:55	59.	5:11	N.A.
24	67.	70.	65.	79.	10:12	60.	5:2	N.A.
25	68.	69.	68.	71.	14:35	66.	5:42	N.A.
26	76.	82.	73.	89.	15:7	68.	4:48	N.A.
27	*	*	*	*	*:*	*	*:*	N.A.
28	*	*	*	*	*:*	*	*:*	N.A.
29	*	*	*	*	*:*	*	*:*	N.A.
30	*	*	*	*	*:*	*	*:*	N.A.
31	*	*	*	*	*:*	*	*:*	N.A.
MEAN	77.	82.	75.					N.A.
STANDARD DEVIATION	5.9	6.8	5.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: TERRELL E. MOSELEY
LYNCHBURG, VIRGINIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 14

LATITUDE: 37.46 DEG NORTH
LONGITUDE: 70.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 50 DEG

TIME ZONE: EASTERN
ALTITUDE: 700 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	888.	N.A.	N.A.	267.	14: 0	2471.	36.
2	560.	N.A.	N.A.	159.	10: 8	2474.	23.
3	336.	N.A.	N.A.	129.	10:28	2477.	14.
4	1334.	N.A.	N.A.	273.	11:41	2478.	54.
5	1051.	N.A.	N.A.	234.	13:19	2482.	42.
6	752.	N.A.	N.A.	147.	11: 1	2486.	30.
7	1626.	N.A.	N.A.	252.	11:49	2490.	65.
8	1711.	N.A.	N.A.	249.	12: 9	2495.	69.
9	1496.	N.A.	N.A.	255.	12:26	2500.	60.
10	1344.	N.A.	N.A.	258.	10:45	2505.	54.
11	1548.	N.A.	N.A.	240.	11:36	2510.	62.
12	1184.	N.A.	N.A.	219.	12:12	2516.	47.
13	1248.	N.A.	N.A.	228.	10:25	2522.	49.
14	1412.	N.A.	N.A.	282.	11:45	2526.	56.
15	1726.	N.A.	N.A.	255.	12:19	2533.	68.
16	585.	N.A.	N.A.	177.	14:17	2539.	23.
17	1516.	N.A.	N.A.	264.	12:56	2547.	60.
18	1231.	N.A.	N.A.	249.	12:15	2554.	48.
19	1285.	N.A.	N.A.	231.	12:41	2562.	50.
20	1450.	N.A.	N.A.	255.	12: 9	2569.	56.
21	1645.	N.A.	N.A.	270.	12:27	2575.	64.
22	1395.	N.A.	N.A.	285.	12:36	2583.	54.
23	1429.	N.A.	N.A.	261.	12:20	2592.	55.
24	122.	N.A.	N.A.	42.	12:52	2598.	5.
25	573.	N.A.	N.A.	210.	13: 3	2607.	22.
26	1444.	N.A.	N.A.	261.	12:23	2616.	55.
27	1476.	N.A.	N.A.	240.	12: 7	2626.	56.
28	1315.	N.A.	N.A.	243.	12:40	2635.	50.
29	1788.	N.A.	N.A.	279.	13: 1	2643.	68.
30	2126.	N.A.	N.A.	273.	11:50	2652.	80.
31	1527.	N.A.	N.A.	357.	12: 0	2663.	57.
MEAN	1262.	N.A.	N.A.			2549.	
STANDARD DEVIATION	456.	N.A.	N.A.			59.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TERRELL E. MOSELEY
LYNCHBURG, VIRGINIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 14

LATITUDE: 37.46 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 70.00 DEG WEST PYRANOMETER TILT: 50 DEG ALTITUDE: 700 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	67.	72.	63.	84.	14:16	59.	4:35	N.A.
2	66.	69.	63.	78.	14: 7	61.	2:45	N.A.
3	66.	68.	63.	73.	11:26	61.	20:13	N.A.
4	72.	79.	66.	90.	15:46	63.	0: 2	N.A.
5	74.	80.	68.	89.	11:11	64.	2:15	N.A.
6	75.	78.	73.	89.	16:58	68.	2:23	N.A.
7	81.	88.	75.	95.	14: 6	69.	3:54	N.A.
8	81.	89.	75.	96.	16:41	66.	4:57	N.A.
9	85.	92.	79.	101.	14:24	70.	4:42	N.A.
10	81.	89.	73.	100.	14:51	69.	16:37	N.A.
11	79.	85.	74.	96.	13:28	69.	4:35	N.A.
12	80.	86.	75.	94.	12:12	67.	4:51	N.A.
13	81.	86.	76.	93.	10:57	70.	5:32	N.A.
14	85.	91.	81.	97.	13:37	73.	23:42	N.A.
15	76.	82.	71.	90.	16:35	63.	5: 7	N.A.
16	72.	73.	71.	80.	12:41	66.	6: 6	N.A.
17	78.	84.	73.	92.	15:10	67.	4: 8	N.A.
18	78.	84.	72.	94.	14:23	65.	5:25	N.A.
19	79.	85.	74.	92.	13:13	66.	4:47	N.A.
20	82.	87.	77.	94.	13:29	74.	4: 4	N.A.
21	82.	88.	77.	94.	12:16	71.	5:26	N.A.
22	79.	84.	74.	93.	13:51	70.	23:16	N.A.
23	75.	79.	71.	87.	15:43	66.	4:42	N.A.
24	67.	68.	66.	70.	0:15	64.	23:54	N.A.
25	71.	73.	69.	81.	16:15	64.	0:15	N.A.
26	81.	85.	77.	94.	16: 7	70.	0: 5	N.A.
27	85.	91.	79.	98.	14:41	74.	4:12	N.A.
28	80.	86.	74.	96.	13:50	71.	4:51	N.A.
29	78.	84.	72.	89.	13:17	63.	23:56	N.A.
30	68.	75.	59.	84.	14:36	55.	5:26	N.A.
31	70.	78.	63.	87.	16:11	53.	5: 4	N.A.
MEAN	77.	82.	72.					N.A.
STANDARD DEVIATION	5.9	7.0	5.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: TROY-MIAMI COUNTY LIBRARY
TROY, OHIO

REPORT PERIOD: 81/ 7
SITE NUMBER: 32

LATITUDE: 40.10 DEG NORTH AZIMUTH: 28 DEG TIME ZONE: EASTERN
LONGITUDE: 84.40 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 850 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1516.	822.	694.	283.	13:57	3079.	49.
2	1076.	695.	381.	302.	14:51	3080.	35.
3	1133.	716.	417.	283.	13:37	3081.	37.
4	990.	762.	228.	244.	12:17	3083.	32.
5	1039.	764.	275.	296.	12:34	3084.	34.
6	1687.	864.	823.	283.	13:32	3086.	55.
7	1584.	803.	781.	283.	12:12	3088.	51.
8	1569.	657.	913.	289.	14:25	3090.	51.
9	1531.	724.	807.	302.	13:42	3092.	50.
10	2048.	460.	1588.	305.	13:51	3094.	66.
11	1987.	430.	1557.	305.	13:46	3096.	64.
12	1235.	881.	355.	209.	11:44	3099.	40.
13	1333.	713.	619.	296.	13:25	3101.	43.
14	1977.	440.	1537.	292.	13:14	3104.	64.
15	766.	646.	120.	202.	10:43	3107.	25.
16	1670.	659.	1010.	312.	14:12	3109.	54.
17	1667.	733.	934.	299.	13:31	3112.	54.
18	1815.	640.	1175.	280.	13:10	3118.	58.
19	208.	172.	36.	55.	13:28	3120.	7.
20	*	*	*	*	*:*	3123.	*
21	*	*	*	*	*:*	3126.	*
22	1612.	673.	939.	337.	13:50	3128.	52.
23	1156.	681.	475.	273.	13:53	3131.	37.
24	1523.	692.	831.	296.	13: 9	3134.	49.
25	1152.	757.	395.	244.	12:50	3136.	37.
26	675.	530.	145.	206.	15:55	3141.	21.
27	780.	489.	291.	318.	14:40	3141.	25.
28	851.	661.	190.	235.	13:53	3146.	27.
29	1329.	587.	742.	350.	13:59	3149.	42.
30	2054.	234.	1820.	309.	13:40	3151.	65.
31	1952.	469.	1483.	328.	13:30	3156.	62.
MEAN	1376.	633.	743.			3112.	
STANDARD DEVIATION	464.	170.	498.			24.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TROY-MIAMI COUNTY LIBRARY
TROY, OHIO

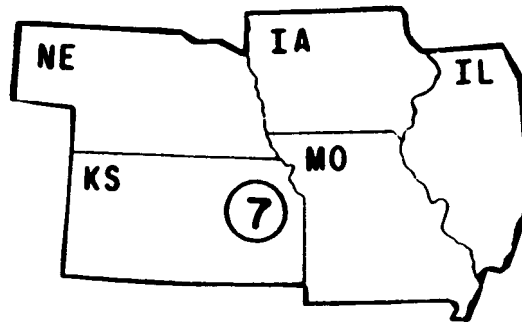
REPORT PERIOD: 81/ 7
SITE NUMBER: 32

LATITUDE: 40.10 DEG NORTH AZIMUTH: 28 DEG TIME ZONE: EASTERN
LONGITUDE: 84.40 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 850 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	76.	78.	74.	89.	13:19	67.	3:37	N.A.
2	70.	73.	67.	83.	16:6	65.	17:54	N.A.
3	70.	72.	68.	83.	15:18	64.	3:40	N.A.
4	72.	75.	69.	89.	12:22	65.	5:26	N.A.
5	74.	76.	72.	84.	15:3	68.	2:19	N.A.
6	79.	82.	76.	93.	13:27	68.	5:43	N.A.
7	81.	84.	79.	94.	13:21	70.	5:11	N.A.
8	83.	86.	80.	94.	13:42	72.	5:37	N.A.
9	83.	87.	79.	95.	13:48	75.	4:12	N.A.
10	80.	83.	76.	92.	11:49	68.	23:54	N.A.
11	78.	82.	74.	97.	13:46	60.	5:30	N.A.
12	79.	80.	77.	92.	17:4	63.	5:3	N.A.
13	83.	87.	79.	100.	12:48	76.	3:54	N.A.
14	78.	81.	76.	88.	13:4	69.	23:58	N.A.
15	73.	75.	72.	85.	9:34	65.	5:2	N.A.
16	75.	77.	73.	89.	12:20	66.	4:41	N.A.
17	78.	81.	74.	92.	13:42	64.	5:4	N.A.
18	80.	83.	77.	96.	13:42	65.	5:26	N.A.
19	73.	72.	73.	76.	0:6	70.	13:1	N.A.
20	71.	*	71.	71.	0:8	71.	0:29	N.A.
21	70.	*	70.	72.	20:51	67.	23:58	N.A.
22	70.	72.	67.	81.	12:56	62.	23:50	N.A.
23	68.	72.	64.	83.	12:33	54.	5:31	N.A.
24	75.	78.	70.	90.	13:51	62.	5:41	N.A.
25	77.	80.	74.	90.	12:2	63.	5:22	N.A.
26	76.	76.	76.	82.	12:32	69.	5:17	N.A.
27	74.	73.	75.	81.	16:43	69.	6:51	N.A.
28	74.	77.	71.	83.	13:53	63.	23:51	N.A.
29	65.	67.	64.	76.	13:17	58.	23:53	N.A.
30	68.	73.	63.	87.	13:45	52.	4:41	N.A.
31	73.	78.	68.	92.	13:19	57.	4:52	N.A.
MEAN	75.	78.	73.					N.A.
STANDARD DEVIATION	4.7	5.0	4.7					N.A.

ZONE 7





ENVIRONMENTAL SUMMARY REPORT

SITE: ARGONNE NATIONAL LABORATORY
ARGONNE, ILLINOIS

REPORT PERIOD: 81/ 7
SITE NUMBER: 217

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 88.00 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: CENTRAL
ALTIITUDE: 750 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	INSOLATION	-----	
				BTU/HR/FT2	BTU/FT2	EXT INS	
				TIME		PERCENT	
				HR:MN			
1	1664.	N.A.	N.A.	285.	11:12	2845.	58.
2	2112.	N.A.	N.A.	295.	11:53	2847.	74.
3	1792.	N.A.	N.A.	298.	12: 4	2849.	63.
4	872.	N.A.	N.A.	308.	13:20	2851.	31.
5	1823.	N.A.	N.A.	272.	11:23	2854.	64.
6	2114.	N.A.	N.A.	292.	12: 0	2857.	74.
7	1762.	N.A.	N.A.	298.	12:16	2860.	62.
8	1626.	N.A.	N.A.	308.	11:35	2863.	57.
9	1206.	N.A.	N.A.	275.	13: 9	2866.	42.
10	2080.	N.A.	N.A.	285.	11:38	2870.	72.
11	1538.	N.A.	N.A.	295.	10:28	2871.	54.
12	1292.	N.A.	N.A.	285.	12:48	2875.	45.
13	963.	N.A.	N.A.	214.	14: 8	2879.	33.
14	1895.	N.A.	N.A.	318.	11:16	2883.	66.
15	351.	N.A.	N.A.	139.	14:51	2888.	12.
16	1584.	N.A.	N.A.	298.	12:18	2892.	55.
17	1849.	N.A.	N.A.	298.	13: 8	2897.	64.
18	1506.	N.A.	N.A.	285.	11:26	2902.	52.
19	806.	N.A.	N.A.	249.	13:43	2907.	28.
20	1153.	N.A.	N.A.	298.	11:30	2913.	40.
21	703.	N.A.	N.A.	204.	11: 8	2918.	24.
22	1902.	N.A.	N.A.	305.	11:59	2924.	65.
23	944.	N.A.	N.A.	266.	10:25	2930.	32.
24	1793.	N.A.	N.A.	314.	11:39	2935.	61.
25	653.	N.A.	N.A.	214.	13:54	2941.	22.
26	336.	N.A.	N.A.	52.	9:25	2948.	11.
27	348.	N.A.	N.A.	87.	11: 6	2954.	12.
28	469.	N.A.	N.A.	188.	14: 5	2960.	16.
29	2166.	N.A.	N.A.	334.	10:30	2967.	73.
30	2128.	N.A.	N.A.	308.	12: 8	2973.	72.
31	2134.	N.A.	N.A.	298.	11:54	2980.	72.
MEAN	1405.	N.A.	N.A.			2900.	
STANDARD DEVIATION	606.	N.A.	N.A.			42.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ARGONNE NATIONAL LABORATORY
ARGONNE, ILLINOIS

REPORT PERIOD: 81/ 7
SITE NUMBER: 217

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 88.00 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 750 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	68.	72.	65.	77.	12:21	59.	0:10	N.A.
2	73.	78.	68.	83.	16: 9	65.	2:22	N.A.
3	75.	83.	68.	92.	12:15	62.	3:32	N.A.
4	71.	73.	69.	81.	17:10	66.	0:11	N.A.
5	74.	80.	68.	86.	15:23	64.	23:34	N.A.
6	76.	85.	68.	93.	13:31	60.	4: 0	N.A.
7	83.	93.	73.	100.	14:31	62.	1:52	N.A.
8	84.	89.	79.	95.	14:36	75.	3:45	N.A.
9	77.	81.	73.	88.	9:25	63.	23:17	N.A.
10	78.	88.	68.	96.	14:18	59.	3: 6	N.A.
11	80.	88.	72.	97.	13:40	62.	4:10	N.A.
12	82.	87.	78.	102.	15: 2	71.	8: 6	N.A.
13	79.	82.	77.	89.	14:51	70.	23:32	N.A.
14	76.	81.	71.	85.	15: 0	69.	4:31	N.A.
15	68.	68.	68.	71.	4:43	63.	8:48	N.A.
16	73.	78.	68.	85.	13:28	65.	23:59	N.A.
17	78.	87.	69.	96.	14: 7	61.	3:59	N.A.
18	81.	89.	74.	95.	11:37	67.	4:46	N.A.
19	78.	81.	74.	91.	14: 4	72.	22:31	N.A.
20	75.	79.	71.	91.	14:21	67.	23:35	N.A.
21	65.	67.	63.	72.	13:37	56.	23: 6	N.A.
22	65.	72.	58.	77.	15: 0	52.	4: 4	N.A.
23	67.	72.	63.	77.	10:30	57.	0:11	N.A.
24	75.	83.	67.	93.	15:39	59.	4: 6	N.A.
25	74.	79.	69.	88.	14:53	65.	2: 5	N.A.
26	66.	66.	65.	68.	0:18	62.	22:29	N.A.
27	63.	63.	63.	66.	7:59	59.	16:40	N.A.
28	61.	61.	60.	66.	17:10	54.	23:55	N.A.
29	66.	73.	59.	83.	16:56	51.	4:16	N.A.
30	71.	79.	63.	84.	14: 0	55.	4: 3	N.A.
31	74.	82.	66.	89.	13:21	59.	4:26	N.A.
MEAN	73.	79.	68.					N.A.
STANDARD DEVIATION	6.2	8.2	5.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLES HENNING
WICHITA, KANSAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 158

LATITUDE: 37.75 DEG NORTH AZIMUTH: 3* DEG TIME ZONE: CENTRAL
LONGITUDE: 97.40 DEG WEST PYRANOMETER TILT: 89* DEG ALTITUDE: 1305 FEET

DAY	INSOLATION				90 DEG EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT	
	TOTAL HORIZONTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE TIME BTU/HR/FT2 HR:MN			
1	1166.	N.A.	N.A.	295.	11:53	569.	*
2	1300.	N.A.	N.A.	292.	12:40	574.	*
3	302.	N.A.	N.A.	273.	14:12	577.	*
4	826.	N.A.	N.A.	266.	12: 4	581.	*
5	1297.	N.A.	N.A.	269.	12:13	587.	*
6	1681.	N.A.	N.A.	269.	12:29	591.	*
7	1007.	N.A.	N.A.	341.	13:23	598.	*
8	1281.	N.A.	N.A.	292.	12:32	603.	*
9	1696.	N.A.	N.A.	305.	13: 9	610.	*
10	1564.	N.A.	N.A.	282.	12:31	616.	*
11	1664.	N.A.	N.A.	256.	12:42	624.	*
12	1623.	N.A.	N.A.	247.	12:10	631.	*
13	1279.	N.A.	N.A.	266.	13: 4	639.	*
14	1545.	N.A.	N.A.	253.	12:54	648.	*
15	1440.	N.A.	N.A.	250.	13:31	655.	*
16	1370.	N.A.	N.A.	269.	11:56	665.	*
17	862.	N.A.	N.A.	273.	13:51	674.	*
18	79.	N.A.	N.A.	62.	10:16	684.	*
19	1355.	N.A.	N.A.	250.	12:25	695.	*
20	1606.	N.A.	N.A.	243.	12:20	704.	*
21	1131.	N.A.	N.A.	256.	11:24	716.	*
22	1157.	N.A.	N.A.	276.	12:37	727.	*
23	280.	N.A.	N.A.	172.	10:52	740.	*
24	1397.	N.A.	N.A.	263.	13: 8	752.	*
25	713.	N.A.	N.A.	269.	12:44	765.	*
26	1049.	N.A.	N.A.	221.	13:37	777.	*
27	847.	N.A.	N.A.	266.	13: 5	790.	*
28	802.	N.A.	N.A.	302.	12:50	805.	*
29	420.	N.A.	N.A.	214.	14:34	818.	*
30	508.	N.A.	N.A.	250.	12:35	833.	*
31	1262.	N.A.	N.A.	250.	12:27	847.	*
MEAN	1113.	N.A.	N.A.			680.	
STANDARD DEVIATION	450.	N.A.	N.A.			85.	

ENVIRONMENTAL SUMMARY REPORT

**SITE: CHARLES HENNING
WICHITA, KANSAS**

**REPORT PERIOD: 81/ 7
SITE NUMBER: 158**

**LATITUDE: 37.75 DEG NORTH AZIMUTH: 3*DEG TIME ZONE: CENTRAL
LONGITUDE: 97.40 DEG WEST PYRANOMETER TILT: 89*DEG ALTITUDE: 1305 FEET**

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	80.	87.	77.	94.	15: 5	68.	4: 3	N.A.
2	82.	91.	77.	97.	11:20	69.	5:17	N.A.
3	74.	74.	74.	86.	17: 2	67.	4:32	N.A.
4	75.	78.	74.	86.	16: 9	67.	5:29	N.A.
5	77.	85.	73.	93.	14:53	64.	5:18	N.A.
6	79.	89.	75.	95.	13:38	63.	4:29	N.A.
7	79.	85.	75.	91.	16:51	67.	4:50	N.A.
8	82.	90.	78.	99.	15:18	70.	4:59	N.A.
9	86.	97.	81.	106.	15:23	72.	5: 9	N.A.
10	88.	98.	83.	103.	12:31	73.	4:52	N.A.
11	90.	100.	85.	106.	14:50	74.	5:14	N.A.
12	90.	100.	85.	107.	14:13	76.	5:36	N.A.
13	88.	98.	83.	106.	13:25	74.	5: 4	N.A.
14	90.	101.	85.	108.	13:37	74.	4:53	N.A.
15	86.	102.	78.	111.	15:29	71.	16:52	N.A.
16	82.	93.	76.	103.	14:46	68.	4: 6	N.A.
17	82.	91.	77.	100.	14: 1	69.	4:57	N.A.
18	75.	76.	75.	87.	18:21	69.	5:38	N.A.
19	85.	91.	82.	103.	15:42	72.	0: 8	N.A.
20	87.	97.	82.	105.	12:52	73.	2:49	N.A.
21	79.	86.	76.	96.	15:24	69.	23:49	N.A.
22	87.	96.	82.	110.	14:24	67.	3:38	N.A.
23	83.	85.	82.	96.	17: 0	75.	5:59	N.A.
24	93.	103.	88.	112.	15: 0	77.	6: 6	N.A.
25	88.	94.	85.	106.	16:28	75.	23:45	N.A.
26	84.	97.	77.	107.	14:14	67.	21:47	N.A.
27	73.	79.	70.	96.	15: 7	64.	7:45	N.A.
28	71.	75.	69.	89.	15:51	62.	23:59	N.A.
29	68.	73.	66.	83.	15: 0	58.	3:54	N.A.
30	72.	76.	70.	85.	12:35	64.	0:56	N.A.
31	81.	89.	76.	99.	16:43	68.	0:27	N.A.
MEAN	82.	89.	78.					N.A.
STANDARD DEVIATION	6.3	9.0	5.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLES HENNING
WICHITA, KANSAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 158

LATITUDE: 37.75 DEG NORTH AZIMUTH: 3*DEG TIME_ZONE: CENTRAL
LONGITUDE: 97.40 DEG WEST PYRANOMETER TILT: 89*DEG ALTITUDE: 1305 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM SPEED	WIND DIRECTION	TIME HR:MN
1	*	1.	*	2.	7.	*	14:49
2	*	1.	*	1.	7.	*	12:45
3	*	1.	*	1.	7.	*	16: 4
4	351.	3.	347.	4.	14.	346.	8:57
5	*	1.	*	2.	7.	*	12:55
6	*	1.	*	2.	8.	*	12:34
7	*	2.	*	2.	16.	*	14:27
8	195.	2.	203.	3.	15.	174.	11:39
9	*	2.	*	2.	9.	*	9:36
10	191.	2.	206.	2.	12.	188.	17:29
11	199.	2.	216.	2.	11.	215.	8: 5
12	185.	2.	193.	2.	12.	199.	18:13
13	*	2.	*	3.	9.	*	19:23
14	193.	2.	204.	3.	11.	180.	16:49
15	*	2.	*	2.	10.	*	16:38
16	*	1.	*	1.	11.	*	0:49
17	*	2.	*	2.	9.	*	10:49
18	*	1.	*	1.	8.	*	0:13
19	*	1.	*	2.	8.	*	16:41
20	*	1.	*	2.	10.	*	9:13
21	109.	2.	107.	3.	10.	168.	20:32
22	179.	2.	195.	3.	13.	211.	13:20
23	*	1.	*	1.	8.	*	17:27
24	201.	2.	230.	2.	11.	206.	15:42
25	231.	2.	238.	2.	10.	214.	1:43
26	*	2.	*	2.	14.	*	21:31
27	*	2.	*	2.	10.	*	13:26
28	*	2.	*	2.	7.	*	11:46
29	*	2.	*	2.	9.	*	17:55
30	170.	2.	177.	3.	14.	175.	14:32
31	186.	2.	198.	3.	14.	209.	10:14
MEAN	189.	2.	205.	2.			
STANDARD DEVIATION	56.7	0.5	54.6	0.7			

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLES HENNING
WICHITA, KANSAS

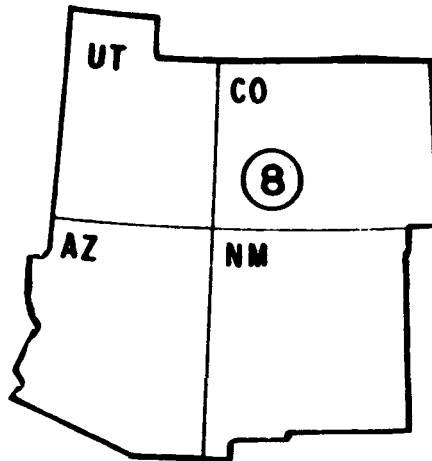
REPORT PERIOD: 81/ 7
SITE NUMBER: 158

LATITUDE: 37.75 DEG NORTH AZIMUTH: 3*DEG
LONGITUDE: 97.40 DEG WEST PYRANOMETER TILT: 89*DEG
TIME ZONE: CENTRAL
ALTITUDE: 1305 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	24	0	0	0	0	0	0	0	0
2	24	0	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	19	5	0	0	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	24	0	0	0	0	0	0	0	0
8	22	2	0	0	0	0	0	0	0
9	24	0	0	0	0	0	0	0	0
10	24	0	0	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	23	1	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	23	1	0	0	0	0	0	0	0
15	22	2	0	0	0	0	0	0	0
16	23	1	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	23	1	0	0	0	0	0	0	0
21	23	1	0	0	0	0	0	0	0
22	22	2	0	0	0	0	0	0	0
23	24	0	0	0	0	0	0	0	0
24	22	2	0	0	0	0	0	0	0
25	24	0	0	0	0	0	0	0	0
26	22	2	0	0	0	0	0	0	0
27	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	22	2	0	0	0	0	0	0	0
31	22	1	0	0	0	0	0	0	1
AVERAGE	23.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	720	23	0	0	0	0	0	0	1

ZONE 8





ENVIRONMENTAL SUMMARY REPORT

SITE: CROWN REALTY #1
LAKWOOD, COLORADO

REPORT PERIOD: 81/ 7
SITE NUMBER: 88

LATITUDE: 39.41 DEG NORTH
LONGITUDE: 105.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 55 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5280 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1327.	N.A.	N.A.	303.	12:26	2335.	57.
2	489.	N.A.	N.A.	203.	9:18	2338.	21.
3	1074.	N.A.	N.A.	272.	10:31	2341.	46.
4	1392.	N.A.	N.A.	255.	11:55	2345.	59.
5	1707.	N.A.	N.A.	258.	11:46	2349.	73.
6	*	N.A.	N.A.	*	*:*	2354.	*
7	*	N.A.	N.A.	*	*:*	2359.	*
8	1353.	N.A.	N.A.	283.	10:38	2364.	57.
9	1043.	N.A.	N.A.	258.	11:50	2367.	44.
10	1500.	N.A.	N.A.	258.	13: 9	2372.	63.
11	1535.	N.A.	N.A.	258.	11:58	2378.	65.
12	1374.	N.A.	N.A.	286.	13:13	2385.	58.
13	912.	N.A.	N.A.	252.	11:58	2391.	38.
14	1710.	N.A.	N.A.	272.	13:54	2398.	71.
15	1645.	N.A.	N.A.	258.	11:31	2405.	68.
16	1256.	N.A.	N.A.	303.	11:29	2410.	52.
17	994.	N.A.	N.A.	248.	10:35	2418.	41.
18	1266.	N.A.	N.A.	283.	11:50	2426.	52.
19	2127.	N.A.	N.A.	272.	11:31	2432.	87.
20	1603.	N.A.	N.A.	289.	12:15	2441.	66.
21	1708.	N.A.	N.A.	269.	11:36	2450.	70.
22	1138.	N.A.	N.A.	272.	11: 9	2459.	46.
23	1570.	N.A.	N.A.	265.	11:55	2466.	64.
24	1592.	N.A.	N.A.	269.	11:52	2475.	64.
25	1184.	N.A.	N.A.	283.	11:37	2485.	48.
26	548.	N.A.	N.A.	231.	14:11	2495.	22.
27	1372.	N.A.	N.A.	283.	12: 8	2505.	55.
28	1840.	N.A.	N.A.	272.	11:49	2514.	73.
29	1845.	N.A.	N.A.	283.	11:55	2524.	73.
30	1721.	N.A.	N.A.	310.	11:27	2533.	68.
31	1084.	N.A.	N.A.	289.	11: 6	2544.	43.
MEAN	1376.	N.A.	N.A.			2421.	
STANDARD DEVIATION	375.	N.A.	N.A.			64.	

ENVIRONMENTAL SUMMARY REPORT

SITE: CROWN REALTY #1
LAKWOOD, COLORADO

REPORT PERIOD: 81/ 7
SITE NUMBER: 88

LATITUDE: 39.41 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 105.00 DEG WEST PYRANOMETER TILT: 55 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 5280 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	76.	85.	69.	101.	12:26	63.	3:28	N.A.
2	69.	74.	65.	81.	9:28	62.	20:23	N.A.
3	70.	77.	63.	92.	12:59	58.	4:34	N.A.
4	74.	83.	66.	98.	12:48	57.	3: 7	N.A.
5	81.	92.	64.	103.	14:37	62.	4:48	N.A.
6	*	*	*	*	*:*	*	*:*	N.A.
7	77.	86.	75.	96.	15:26	70.	19:38	N.A.
8	75.	78.	71.	89.	12:42	61.	23:52	N.A.
9	74.	82.	66.	99.	11:34	58.	5:10	N.A.
10	81.	90.	73.	100.	12:26	64.	5:30	N.A.
11	81.	92.	72.	107.	13:28	66.	22:27	N.A.
12	78.	89.	69.	105.	13:34	61.	20: 4	N.A.
13	72.	79.	65.	96.	12: 9	62.	3:16	N.A.
14	80.	91.	71.	104.	15:30	62.	4:40	N.A.
15	79.	93.	67.	106.	14:16	62.	4:51	N.A.
16	77.	84.	70.	102.	14:25	64.	5: 0	N.A.
17	72.	80.	65.	97.	14:51	62.	23:39	N.A.
18	72.	78.	66.	89.	11:50	60.	3:39	N.A.
19	90.	96.	80.	109.	14:11	68.	23:58	N.A.
20	80.	90.	71.	107.	14:34	59.	4:35	N.A.
21	84.	94.	74.	110.	14:37	62.	3:57	N.A.
22	77.	86.	69.	99.	14:21	62.	5: 6	N.A.
23	79.	87.	72.	106.	13:47	62.	5:15	N.A.
24	77.	87.	69.	100.	14:43	61.	23:58	N.A.
25	70.	79.	63.	95.	14:54	57.	4:57	N.A.
26	62.	67.	58.	84.	14:53	55.	22:32	N.A.
27	67.	75.	60.	90.	13:39	51.	5: 1	N.A.
28	75.	85.	66.	98.	15: 1	54.	4:53	N.A.
29	81.	92.	71.	107.	12: 0	63.	6: 3	N.A.
30	82.	93.	73.	109.	12:47	65.	5:25	N.A.
31	78.	86.	71.	102.	11:11	63.	3:59	N.A.
MEAN	76.	85.	69.					N.A.
STANDARD DEVIATION	5.5	6.9	4.6					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: CROWN REALTY #II
ENGLEWOOD, COLORADO

REPORT PERIOD: 81/ 7
SITE NUMBER: 89

LATITUDE: 39.41 DEG NORTH
LONGITUDE: 105.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 55 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5280 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	*	N.A.	N.A.	*	*:*	2335.	*
2	*	N.A.	N.A.	*	*:*	2338.	*
3	*	N.A.	N.A.	*	*:*	2341.	*
4	*	N.A.	N.A.	*	*:*	2345.	*
5	*	N.A.	N.A.	*	*:*	2349.	*
6	*	N.A.	N.A.	*	*:*	2354.	*
7	*	N.A.	N.A.	*	*:*	2359.	*
8	1049.	N.A.	N.A.	287.	11:41	2364.	44.
9	1532.	N.A.	N.A.	277.	12:12	2367.	65.
10	1752.	N.A.	N.A.	263.	12: 3	2372.	74.
11	1618.	N.A.	N.A.	263.	11:55	2378.	68.
12	1168.	N.A.	N.A.	294.	12:35	2385.	49.
13	885.	N.A.	N.A.	256.	12:30	2391.	37.
14	1746.	N.A.	N.A.	291.	13:37	2398.	73.
15	1633.	N.A.	N.A.	266.	11:47	2405.	68.
16	1529.	N.A.	N.A.	280.	11:43	2410.	63.
17	1070.	N.A.	N.A.	305.	12: 3	2418.	44.
18	1382.	N.A.	N.A.	280.	12:19	2426.	57.
19	1795.	N.A.	N.A.	270.	11:53	2432.	74.
20	1769.	N.A.	N.A.	305.	12:30	2441.	72.
21	1776.	N.A.	N.A.	280.	12:22	2450.	73.
22	1096.	N.A.	N.A.	311.	11:45	2459.	45.
23	1833.	N.A.	N.A.	273.	12:10	2466.	74.
24	1755.	N.A.	N.A.	277.	13:37	2475.	71.
25	1202.	N.A.	N.A.	273.	12: 9	2485.	48.
26	636.	N.A.	N.A.	246.	14:43	2495.	25.
27	1273.	N.A.	N.A.	280.	12:30	2505.	51.
28	2180.	N.A.	N.A.	280.	12: 2	2514.	87.
29	1897.	N.A.	N.A.	280.	12:11	2524.	75.
30	1943.	N.A.	N.A.	318.	11:55	2533.	77.
31	1129.	N.A.	N.A.	270.	11:17	2544.	44.
MEAN	1485.	N.A.	N.A.			2421.	
STANDARD DEVIATION	388.	N.A.	N.A.			64.	

ENVIRONMENTAL SUMMARY REPORT

SITE: CROWN REALTY #II
ENGLEWOOD, COLORADO

REPORT PERIOD: 81/ 7
SITE NUMBER: 89

LATITUDE: 39.41 DEG NORTH
LONGITUDE: 105.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 55 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5280 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	*	*	*	*	*:*	*	*:*	N.A.
2	*	*	*	*	*:*	*	*:*	N.A.
3	*	*	*	*	*:*	*	*:*	N.A.
4	*	*	*	*	*:*	*	*:*	N.A.
5	*	*	*	*	*:*	*	*:*	N.A.
6	*	*	*	*	*:*	*	*:*	N.A.
7	*	*	*	*	*:*	*	*:*	N.A.
8	73.	77.	68.	88.	12:56	58.	23:58	N.A.
9	74.	84.	65.	98.	14:57	57.	4:49	N.A.
10	83.	93.	73.	107.	13:44	65.	4:56	N.A.
11	81.	93.	70.	111.	14:13	63.	18:24	N.A.
12	75.	86.	65.	106.	12:57	59.	19:47	N.A.
13	71.	78.	64.	99.	12:35	60.	5:23	N.A.
14	81.	93.	70.	106.	15:18	62.	4:54	N.A.
15	78.	92.	67.	109.	12:46	60.	22: 7	N.A.
16	76.	83.	69.	98.	16:20	63.	0:52	N.A.
17	72.	81.	65.	97.	12:25	61.	22:54	N.A.
18	72.	81.	65.	96.	13:34	59.	1:39	N.A.
19	81.	94.	71.	109.	15: 5	61.	2:22	N.A.
20	80.	91.	69.	112.	15:21	57.	5: 2	N.A.
21	86.	99.	74.	114.	15:13	64.	1:31	N.A.
22	78.	87.	70.	100.	15:29	65.	5:26	N.A.
23	79.	90.	70.	109.	14:55	61.	5:30	N.A.
24	77.	89.	67.	106.	14: 9	60.	23:58	N.A.
25	70.	80.	62.	98.	14:28	58.	4:30	N.A.
26	63.	70.	58.	89.	15:36	54.	22:54	N.A.
27	67.	76.	60.	93.	14: 0	50.	4:46	N.A.
28	73.	84.	58.	100.	13:17	56.	5:22	N.A.
29	88.	95.	76.	109.	14:51	66.	6: 3	N.A.
30	82.	94.	72.	109.	11: 1	65.	0:37	N.A.
31	78.	88.	69.	107.	11:17	61.	4:21	N.A.
MEAN	77.	86.	67.					N.A.
STANDARD DEVIATION	5.8	7.3	4.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: HONEYWELL SALT RIVER PROJECT
PHOENIX, ARIZONA

REPORT PERIOD: 81/ 7
SITE NUMBER: 129

LATITUDE: 33.50 DEG NORTH
LONGITUDE: 112.00 DEG WEST

AZIMUTH: -34 DEG
PYRANOMETER TILT: 20 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 1000 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2157.	N.A.	N.A.	292.	13: 5	3425.	63.
2	*	N.A.	N.A.	*	*:*	3424.	*
3	*	N.A.	N.A.	*	*:*	3423.	*
4	*	N.A.	N.A.	*	*:*	3423.	*
5	*	N.A.	N.A.	*	*:*	3422.	*
6	*	N.A.	N.A.	*	*:*	3421.	*
7	3117.	N.A.	N.A.	292.	12:10	3420.	91.
8	2026.	N.A.	N.A.	299.	14: 8	3423.	59.
9	2219.	N.A.	N.A.	289.	12:46	3422.	65.
10	2196.	N.A.	N.A.	289.	13: 5	3418.	64.
11	1825.	N.A.	N.A.	324.	14:30	3417.	53.
12	2062.	N.A.	N.A.	306.	14:29	3419.	60.
13	1828.	N.A.	N.A.	306.	12: 3	3418.	53.
14	2084.	N.A.	N.A.	345.	14:45	3417.	61.
15	2206.	N.A.	N.A.	317.	12:38	3416.	65.
16	2037.	N.A.	N.A.	306.	13:27	3415.	60.
17	2226.	N.A.	N.A.	303.	13:41	3417.	65.
18	2273.	N.A.	N.A.	303.	13: 8	3415.	67.
19	2297.	N.A.	N.A.	306.	13:10	3411.	67.
20	2250.	N.A.	N.A.	303.	12:48	3412.	66.
21	2214.	N.A.	N.A.	299.	13:21	3411.	65.
22	1247.	N.A.	N.A.	267.	15:31	3409.	37.
23	2152.	N.A.	N.A.	296.	13: 1	3408.	63.
24	2248.	N.A.	N.A.	299.	12:40	3409.	66.
25	1949.	N.A.	N.A.	352.	13:22	3404.	57.
26	2257.	N.A.	N.A.	299.	13: 5	3405.	66.
27	2228.	N.A.	N.A.	303.	12:49	3403.	65.
28	2170.	N.A.	N.A.	303.	11:40	3401.	64.
29	2035.	N.A.	N.A.	352.	12:58	3399.	60.
30	1984.	N.A.	N.A.	313.	12:49	3400.	58.
31	1440.	N.A.	N.A.	338.	12:33	3394.	42.
MEAN	2105.	N.A.	N.A.			3414.	
STANDARD DEVIATION	324.	N.A.	N.A.			9.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HONEYWELL SALT RIVER PROJECT
PHOENIX, ARIZONA

REPORT PERIOD: 81/ 7
SITE NUMBER: 129

LATITUDE: 33.50 DEG NORTH AZIMUTH: -34 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 112.00 DEG WEST PYRANOMETER TILT: 20 DEG ALTITUDE: 1000 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	89.	95.	80.	105.	14:47	78.	2:32	N.A.
2	*	*	*	*	*:*	*	*:*	N.A.
3	*	*	*	*	*:*	*	*:*	N.A.
4	*	*	*	*	*:*	*	*:*	N.A.
5	*	*	*	*	*:*	*	*:*	N.A.
6	*	*	*	*	*:*	*	*:*	N.A.
7	100.	103.	91.	107.	15:26	83.	23:23	N.A.
8	92.	97.	86.	105.	15:17	81.	3:55	N.A.
9	95.	101.	89.	108.	15:58	82.	5: 9	N.A.
10	95.	100.	88.	108.	15: 8	83.	23:56	N.A.
11	87.	92.	82.	100.	14:30	80.	5:42	N.A.
12	89.	95.	81.	105.	16:43	78.	5:42	N.A.
13	89.	94.	83.	103.	14:49	80.	5:47	N.A.
14	91.	96.	85.	106.	16:53	81.	5:31	N.A.
15	93.	99.	86.	106.	15:34	72.	22:31	N.A.
16	87.	93.	81.	103.	14: 4	73.	0:23	N.A.
17	91.	96.	85.	107.	14:51	79.	5: 9	N.A.
18	95.	100.	89.	107.	15:26	81.	5: 2	N.A.
19	96.	99.	92.	107.	16: 0	83.	5:50	N.A.
20	96.	100.	91.	107.	16:27	82.	5:10	N.A.
21	98.	102.	94.	111.	15:55	86.	6:19	N.A.
22	93.	96.	90.	106.	16:24	83.	6: 6	N.A.
23	97.	102.	92.	111.	15:52	83.	5:27	N.A.
24	97.	101.	91.	110.	14:53	84.	5: 7	N.A.
25	90.	92.	89.	97.	15:46	86.	6: 5	N.A.
26	94.	99.	88.	107.	15:50	80.	4:55	N.A.
27	94.	99.	88.	108.	14:25	84.	6:19	N.A.
28	93.	98.	88.	106.	15:50	80.	4:38	N.A.
29	94.	98.	89.	105.	16:41	74.	23:55	N.A.
30	87.	92.	83.	101.	17:31	73.	0: 1	N.A.
31	89.	92.	86.	99.	14: 4	81.	5:53	N.A.
MEAN	93.	97.	87.					N.A.
STANDARD DEVIATION	3.5	3.5	3.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 24

LATITUDE: 35.06 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 106.60 DEG WEST PYRANOMETER TILT: 30 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 5350 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	1097.	N.A.	N.A.	314.	10:33	3130.	35.
2	2127.	N.A.	N.A.	303.	11:54	3131.	68.
3	2218.	N.A.	N.A.	303.	11:49	3132.	71.
4	2238.	N.A.	N.A.	311.	12:37	3134.	71.
5	2291.	N.A.	N.A.	307.	12:26	3135.	73.
6	2154.	N.A.	N.A.	326.	13:30	3136.	69.
7	1491.	N.A.	N.A.	326.	12:20	3138.	48.
8	1955.	N.A.	N.A.	292.	12: 9	3139.	62.
9	1609.	N.A.	N.A.	359.	11:31	3144.	51.
10	1679.	N.A.	N.A.	393.	11:15	3146.	53.
11	2279.	N.A.	N.A.	311.	12:41	3148.	72.
12	2327.	N.A.	N.A.	303.	12:14	3150.	74.
13	2155.	N.A.	N.A.	303.	12: 5	3152.	68.
14	2177.	N.A.	N.A.	303.	12:33	3154.	69.
15	1504.	N.A.	N.A.	311.	11:21	3156.	48.
16	2057.	N.A.	N.A.	348.	14: 3	3159.	65.
17	1759.	N.A.	N.A.	337.	11:40	3161.	56.
18	1982.	N.A.	N.A.	311.	12:33	3167.	63.
19	2071.	N.A.	N.A.	326.	11:56	3169.	65.
20	2229.	N.A.	N.A.	307.	12: 7	3172.	70.
21	2229.	N.A.	N.A.	311.	12:15	3174.	70.
22	2154.	N.A.	N.A.	299.	11:49	3177.	68.
23	2052.	N.A.	N.A.	303.	12:15	3180.	65.
24	2066.	N.A.	N.A.	303.	11:57	3183.	65.
25	1891.	N.A.	N.A.	337.	11:49	3186.	59.
26	1799.	N.A.	N.A.	363.	12: 6	3189.	56.
27	1780.	N.A.	N.A.	314.	12:49	3192.	56.
28	2116.	N.A.	N.A.	311.	13:22	3195.	66.
29	1965.	N.A.	N.A.	303.	12:13	3198.	61.
30	2159.	N.A.	N.A.	333.	11:30	3201.	67.
31	1461.	N.A.	N.A.	307.	13:30	3205.	46.
MEAN	1970.	N.A.	N.A.			3162.	
STANDARD DEVIATION	297.	N.A.	N.A.			24.	

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 24

LATITUDE: 35.06 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 106.60 DEG WEST PYRANOMETER TILT: 30 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 5350 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE TIME HR:MN	MIN TEMPERATURE VALUE TIME HR:MN	INLET WATER TEMPERATURE
1	68.	72.	63.	89. 14:33	59. 23:44	N.A.
2	75.	83.	67.	91. 15:29	57. 4:48	N.A.
3	79.	88.	71.	100. 14: 7	60. 4:39	N.A.
4	82.	90.	74.	96. 14:39	61. 4: 5	N.A.
5	83.	90.	75.	105. 16:15	68. 3:17	N.A.
6	83.	93.	74.	106. 15:43	64. 5:30	N.A.
7	75.	84.	66.	100. 14: 7	59. 16:57	N.A.
8	74.	86.	63.	103. 14:33	56. 3:21	N.A.
9	74.	81.	66.	91. 14:37	59. 5:12	N.A.
10	77.	83.	71.	94. 13:39	65. 2:32	N.A.
11	82.	89.	74.	98. 14: 1	67. 4:57	N.A.
12	79.	87.	71.	96. 12:46	63. 4:31	N.A.
13	79.	88.	69.	101. 13:51	61. 4:47	N.A.
14	79.	88.	69.	98. 15:23	60. 4:49	N.A.
15	73.	83.	63.	98. 14:12	60. 4:52	N.A.
16	76.	84.	68.	97. 14: 8	60. 4:53	N.A.
17	77.	84.	70.	99. 14:25	66. 3:51	N.A.
18	79.	86.	72.	93. 13:16	66. 3:40	N.A.
19	83.	91.	74.	103. 15:24	59. 5:26	N.A.
20	84.	94.	74.	107. 14:48	62. 4:49	N.A.
21	87.	97.	76.	108. 14:44	65. 4:42	N.A.
22	86.	95.	76.	107. 15:59	65. 5:19	N.A.
23	83.	92.	74.	103. 13:45	64. 4:25	N.A.
24	82.	88.	75.	102. 16:11	68. 4:45	N.A.
25	81.	89.	72.	101. 13:52	67. 23:33	N.A.
26	77.	84.	70.	99. 13:21	67. 1:25	N.A.
27	77.	84.	69.	97. 14: 9	63. 23:57	N.A.
28	78.	87.	68.	102. 16: 8	58. 5:33	N.A.
29	77.	84.	70.	99. 13:44	62. 5:28	N.A.
30	80.	88.	71.	105. 15:48	60. 5:22	N.A.
31	74.	81.	67.	98. 13:56	62. 5: 3	N.A.
MEAN	79.	87.	70.			N.A.
STANDARD DEVIATION	4.1	4.9	3.8			N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 24

LATITUDE: 35.06 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: MOUNTAIN
LONGITUDE: 106.60 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 5350 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	WIND DIRECTION	TIME HR:MN
1	*	0.	*	0.	12.	*	12:25
2	*	0.	*	0.	3.	*	12:0
3	*	0.	*	0.	7.	*	23:54
4	267.	2.	143.	1.	18.	264.	23:6
5	*	2.	*	1.	15.	*	0:10
6	*	0.	*	0.	9.	*	17:40
7	*	1.	*	2.	16.	*	17:40
8	*	0.	*	0.	9.	*	18:0
9	*	0.	*	0.	7.	*	13:55
10	*	0.	*	0.	1.	*	14:48
11	*	0.	*	0.	8.	*	19:11
12	*	0.	*	0.	4.	*	18:34
13	*	0.	*	0.	14.	*	16:38
14	*	0.	*	0.	4.	*	17:8
15	*	0.	*	1.	17.	*	17:9
16	*	0.	*	0.	20.	*	15:40
17	*	0.	*	0.	6.	*	17:26
18	*	0.	*	0.	3.	*	16:33
19	*	0.	*	0.	8.	*	21:16
20	*	*	*	*	*	*	*:*
21	*	0.	*	0.	0.	*	16:31
22	*	0.	*	0.	3.	*	14:14
23	*	0.	*	1.	16.	*	16:40
24	*	0.	*	0.	7.	*	17:20
25	*	0.	*	0.	9.	*	23:44
26	*	1.	*	0.	17.	*	16:17
27	*	0.	*	0.	9.	*	16:18
28	*	1.	*	0.	8.	*	17:38
29	*	2.	*	1.	12.	*	20:40
30	*	0.	*	0.	9.	*	20:42
31	*	0.	*	1.	15.	*	16:38
MEAN	267.	0.	143.	0.			
STANDARD DEVIATION	*****	0.5	*****	0.4			

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 24

LATITUDE: 35.06 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 106.60 DEG WEST PYRANOMETER TILT: 30 DEG
TIME ZONE: MOUNTAIN
ALTITUDE: 5350 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	24	0	0	0	0	0	0	0	0
2	24	0	0	0	0	0	0	0	0
3	23	1	0	0	0	0	0	0	0
4	18	3	3	0	0	0	0	0	0
5	22	2	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	22	1	1	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	24	0	0	0	0	0	0	0	0
10	24	0	0	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	23	1	0	0	0	0	0	0	0
16	23	1	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	24	0	0	0	0	0	0	0	0
21	24	0	0	0	0	0	0	0	0
22	24	0	0	0	0	0	0	0	0
23	23	1	0	0	0	0	0	0	0
24	24	0	0	0	0	0	0	0	0
25	23	1	0	0	0	0	0	0	0
26	23	1	0	0	0	0	0	0	0
27	24	0	0	0	0	0	0	0	0
28	22	2	0	0	0	0	0	0	0
29	21	3	0	0	0	0	0	0	0
30	23	1	0	0	0	0	0	0	0
31	22	1	0	0	0	0	0	0	1
AVERAGE	23.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	720	19	4	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: PERL-MACK ENTERPRISES
DENVER, COLORADO

REPORT PERIOD: 81/ 7
SITE NUMBER: 60

LATITUDE: 39.80 DEG NORTH
LONGITUDE: 104.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5250 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2163.	N.A.	N.A.	352.	12:29	3270.	66.
2	1073.	N.A.	N.A.	236.	8:31	3270.	33.
3	1796.	N.A.	N.A.	340.	11:27	3274.	55.
4	1789.	N.A.	N.A.	303.	11:43	3274.	55.
5	2257.	N.A.	N.A.	329.	11:32	3274.	69.
6	2288.	N.A.	N.A.	308.	11:16	3275.	70.
7	1948.	N.A.	N.A.	297.	11:37	3276.	59.
8	1429.	N.A.	N.A.	352.	12: 3	3276.	44.
9	1628.	N.A.	N.A.	308.	11: 7	3277.	50.
10	2168.	N.A.	N.A.	303.	11:48	3275.	66.
11	2032.	N.A.	N.A.	306.	11:47	3279.	62.
12	1638.	N.A.	N.A.	308.	13: 5	3280.	50.
13	1401.	N.A.	N.A.	277.	12:39	3280.	43.
14	2170.	N.A.	N.A.	311.	11:50	3281.	66.
15	2137.	N.A.	N.A.	323.	12:25	3282.	65.
16	1637.	N.A.	N.A.	323.	11:22	3286.	50.
17	1424.	N.A.	N.A.	323.	12:22	3287.	43.
18	1545.	N.A.	N.A.	308.	12:29	3288.	47.
19	2206.	N.A.	N.A.	306.	11:33	3289.	67.
20	2228.	N.A.	N.A.	320.	12:53	3290.	68.
21	2178.	N.A.	N.A.	314.	12:19	3291.	66.
22	1598.	N.A.	N.A.	360.	11:55	3292.	49.
23	2011.	N.A.	N.A.	311.	11:44	3293.	61.
24	1940.	N.A.	N.A.	326.	13:32	3297.	59.
25	1690.	N.A.	N.A.	323.	12:15	3299.	51.
26	749.	N.A.	N.A.	259.	14:50	3300.	23.
27	1755.	N.A.	N.A.	340.	12:10	3303.	53.
28	2277.	N.A.	N.A.	311.	11:35	3304.	69.
29	2111.	N.A.	N.A.	314.	11:57	3305.	64.
30	1944.	N.A.	N.A.	363.	12:18	3307.	59.
31	1665.	N.A.	N.A.	357.	11:58	3308.	50.
MEAN	1835.	N.A.	N.A.			3287.	
STANDARD DEVIATION	374.	N.A.	N.A.			12.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TAOS STATE OFFICE BLDG.
TAOS, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 186

LATITUDE: 36.50 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 105.50 DEG WEST PYRANOMETER TILT: 0 DEG
TIME ZONE: MOUNTAIN
ALTITUDE: 5200 FEET

DAY	INSOLATION				EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT	
	TOTAL HORIZONTAL INSOLATION BTU/FT2	TOTAL 90 DEG INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2			
				TIME HR:MN			
1	1090.	495.	N.A.	368.	11:54	3701.	29.
2	2448.	727.	N.A.	322.	10:25	3697.	66.
3	2615.	728.	N.A.	334.	12:23	3694.	71.
4	2165.	674.	N.A.	384.	12:17	3689.	59.
5	1955.	701.	N.A.	384.	12:46	3687.	53.
6	2095.	760.	N.A.	362.	13:24	3682.	57.
7	1291.	572.	N.A.	325.	11:16	3677.	35.
8	1825.	737.	N.A.	359.	11:29	3674.	50.
9	1511.	639.	N.A.	384.	11:36	3668.	41.
10	2403.	782.	N.A.	318.	12: 0	3664.	66.
11	1583.	651.	N.A.	347.	12:24	3658.	43.
12	1871.	728.	N.A.	350.	11:39	3654.	51.
13	2281.	794.	N.A.	340.	11:14	3647.	63.
14	2199.	813.	N.A.	334.	13:15	3639.	60.
15	1011.	462.	N.A.	259.	12:53	3634.	28.
16	2217.	831.	N.A.	347.	12:49	3628.	61.
17	1949.	768.	N.A.	340.	12: 3	3620.	54.
18	2120.	767.	N.A.	347.	12:10	3614.	59.
19	2197.	728.	N.A.	340.	13:10	3608.	61.
20	2616.	838.	N.A.	315.	12:33	3601.	73.
21	2386.	894.	N.A.	337.	13:51	3592.	66.
22	2283.	982.	N.A.	340.	13:38	3584.	64.
23	1773.	819.	N.A.	315.	12:32	3574.	50.
24	2064.	843.	N.A.	347.	12:26	3566.	58.
25	1756.	836.	N.A.	334.	12:45	3558.	49.
26	1702.	752.	N.A.	343.	13:24	3549.	48.
27	1982.	961.	N.A.	378.	12:47	3538.	56.
28	2336.	1060.	N.A.	315.	12:22	3531.	66.
29	2212.	1055.	N.A.	334.	12:36	3520.	63.
30	2254.	1122.	N.A.	372.	13:29	3510.	64.
31	1593.	978.	N.A.	337.	12:34	3500.	46.
MEAN	1993.	790.	N.A.			3618.	
STANDARD DEVIATION	407.	153.	N.A.			61.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TAOS STATE OFFICE BLDG.
TAOS, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 186

LATITUDE: 36.50 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 105.50 DEG WEST PYRANOMETER TILT: 0 DEG
TIME ZONE: MOUNTAIN
ALTITUDE: 5200 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	62.	64.	58.	74.	9: 8	55.	4:58	69.
2	68.	73.	62.	83.	15:34	55.	0:22	69.
3	73.	78.	65.	88.	15:40	58.	1:54	70.
4	72.	76.	65.	88.	14:36	55.	5:21	72.
5	70.	74.	64.	86.	12:46	55.	4:54	73.
6	72.	77.	64.	90.	13:19	53.	5:18	73.
7	66.	71.	61.	84.	11:27	57.	23:25	73.
8	66.	72.	57.	83.	14:41	51.	5:33	72.
9	64.	68.	58.	83.	13:54	51.	4:29	71.
10	68.	72.	62.	84.	15:12	53.	4:27	70.
11	68.	72.	62.	84.	12:40	58.	2:43	71.
12	69.	75.	61.	85.	15:50	55.	3:25	72.
13	69.	75.	61.	83.	12:50	52.	5:10	72.
14	68.	74.	61.	86.	13:31	52.	5:15	72.
15	64.	67.	59.	80.	14:19	55.	23:56	72.
16	66.	71.	57.	84.	13:58	50.	3:18	71.
17	68.	73.	61.	82.	16:19	58.	4:19	71.
18	69.	74.	61.	84.	14: 7	56.	5:40	72.
19	70.	77.	61.	90.	15:29	52.	5: 8	73.
20	73.	81.	62.	93.	15: 7	50.	5:21	74.
21	75.	83.	64.	94.	16:31	53.	4:26	75.
22	74.	81.	65.	92.	13:12	55.	5:22	76.
23	70.	75.	64.	88.	12:42	56.	5:25	76.
24	71.	75.	65.	87.	15:48	58.	5:56	76.
25	67.	72.	61.	86.	14:53	57.	3: 4	75.
26	64.	68.	58.	82.	14:12	55.	5:49	74.
27	67.	72.	60.	82.	12:20	55.	4:15	73.
28	70.	75.	63.	86.	16:57	52.	5:10	73.
29	70.	75.	63.	87.	12:57	55.	4:52	74.
30	70.	76.	62.	91.	13:29	50.	4:47	74.
31	70.	75.	63.	86.	12: 2	55.	4:44	75.
MEAN	69.	74.	62.					73.
STANDARD DEVIATION	3.1	4.0	2.4					1.8

ENVIRONMENTAL SUMMARY REPORT

SITE: TAOS STATE OFFICE BLDG.
TAOS, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 186

LATITUDE: 36.50 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 105.50 DEG WEST PYRANOMETER TILT: 0 DEG ALTITUDE: 5200 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	*	3.	*	3.	15.	*	10:55
2	346.	5.	5.	6.	20.	8.	14:46
3	323.	7.	359.	7.	20.	9.	16:54
4	212.	10.	*	7.	30.	167.	21: 5
5	210.	8.	200.	8.	32.	180.	14:38
6	241.	6.	*	6.	29.	4.	15:32
7	247.	6.	*	6.	21.	209.	12:42
8	200.	7.	194.	10.	32.	180.	15:18
9	253.	4.	*	5.	23.	329.	15:41
10	312.	6.	1.	6.	18.	0.	18:32
11	223.	7.	219.	7.	30.	204.	14: 5
12	243.	8.	*	7.	29.	205.	18: 9
13	10.	7.	9.	8.	27.	338.	15:25
14	199.	6.	188.	7.	24.	218.	17:20
15	*	3.	*	4.	28.	*	15:12
16	261.	6.	278.	8.	28.	253.	17:39
17	348.	6.	3.	6.	20.	42.	13:23
18	47.	4.	56.	6.	23.	87.	17:24
19	104.	5.	82.	7.	39.	92.	16:49
20	*	5.	*	4.	19.	*	15:18
21	*	5.	*	5.	18.	*	13:40
22	336.	7.	360.	7.	31.	355.	15: 4
23	226.	6.	*	7.	28.	278.	20:58
24	*	6.	*	6.	31.	*	17:28
25	*	7.	*	9.	22.	*	15:14
26	*	6.	*	7.	27.	*	16:15
27	*	4.	*	4.	20.	*	13:40
28	*	5.	*	6.	22.	*	3:34
29	226.	8.	227.	10.	31.	202.	13:18
30	242.	6.	272.	6.	30.	212.	13:45
31	230.	6.	234.	7.	23.	173.	15:35
MEAN	244.	6.	168.	6.			
STANDARD DEVIATION	87.6	1.5	125.4	1.6			

ENVIRONMENTAL SUMMARY REPORT

SITE: TAOS STATE OFFICE BLDG.
TAOS, NEW MEXICO

REPORT PERIOD: 81/ 7
SITE NUMBER: 186

LATITUDE: 36.50 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 105.50 DEG WEST PYRANOMETER TILT: 0 DEG
TIME ZONE: MOUNTAIN
ALTITUDE: 5200 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	16	8	0	0	0	0	0	0	0
2	10	6	8	0	0	0	0	0	0
3	7	8	8	1	0	0	0	0	0
4	6	4	7	5	2	0	0	0	0
5	6	9	4	4	1	0	0	0	0
6	6	11	6	1	0	0	0	0	0
7	7	11	5	1	0	0	0	0	0
8	13	4	0	5	2	0	0	0	0
9	14	8	2	0	0	0	0	0	0
10	5	15	3	1	0	0	0	0	0
11	6	11	4	3	0	0	0	0	0
12	5	9	8	2	0	0	0	0	0
13	9	7	4	3	1	0	0	0	0
14	11	8	2	3	0	0	0	0	0
15	16	5	2	1	0	0	0	0	0
16	11	5	3	3	0	0	0	0	0
17	14	7	3	1	0	0	0	0	0
18	15	4	5	0	0	0	0	0	0
19	14	5	3	1	0	1	0	0	0
20	10	8	6	0	0	0	0	0	0
21	10	10	4	0	0	0	0	0	0
22	7	8	6	1	2	0	0	0	0
23	9	8	5	2	0	0	0	0	0
24	9	8	6	0	1	0	0	0	0
25	7	8	5	4	0	0	0	0	0
26	8	9	4	3	0	0	0	0	0
27	15	7	2	0	0	0	0	0	0
28	10	8	4	0	0	0	0	0	0
29	6	10	1	5	2	0	0	0	0
30	9	11	2	2	0	0	0	0	0
31	11	5	4	3	0	0	0	0	1
AVERAGE	9.7	7.8	4.2	1.8	0.4	0.0	0.0	0.0	0.0
TOTAL	302	242	130	57	11	1	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: TEMPE UNION HIGH SCHOOL
TEMPE, ARIZONA

REPORT PERIOD: 8/ 7
SITE NUMBER: 34

LATITUDE: 33.26 DEG NORTH
LONGITUDE: 111.50 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 32 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 1117 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2184.	N.A.	N.A.	276.	12:23	3008.	73.
2	2069.	N.A.	N.A.	285.	12:17	3009.	69.
3	1976.	N.A.	N.A.	279.	12:14	3011.	66.
4	1291.	N.A.	N.A.	247.	10:38	3012.	43.
5	2032.	N.A.	N.A.	282.	12:19	3014.	67.
6	1961.	N.A.	N.A.	276.	12:19	3016.	65.
7	1842.	N.A.	N.A.	285.	11:15	3018.	61.
8	1945.	N.A.	N.A.	276.	12:16	3021.	64.
9	1994.	N.A.	N.A.	276.	12:27	3023.	66.
10	1995.	N.A.	N.A.	276.	12:24	3026.	66.
11	1828.	N.A.	N.A.	298.	12:27	3029.	60.
12	1970.	N.A.	N.A.	282.	12:11	3032.	65.
13	1720.	N.A.	N.A.	301.	12:32	3035.	57.
14	1935.	N.A.	N.A.	311.	10:51	3038.	64.
15	2045.	N.A.	N.A.	292.	11:33	3041.	67.
16	1892.	N.A.	N.A.	285.	12:24	3045.	62.
17	2029.	N.A.	N.A.	282.	12:28	3048.	67.
18	2066.	N.A.	N.A.	282.	12:12	3052.	68.
19	2133.	N.A.	N.A.	288.	12:24	3056.	70.
20	2067.	N.A.	N.A.	285.	12: 8	3060.	68.
21	2044.	N.A.	N.A.	282.	11:52	3064.	67.
22	1357.	N.A.	N.A.	311.	11:33	3068.	44.
23	2001.	N.A.	N.A.	282.	12:22	3072.	65.
24	2062.	N.A.	N.A.	282.	12:36	3076.	67.
25	1580.	N.A.	N.A.	292.	11: 8	3083.	51.
26	2085.	N.A.	N.A.	282.	12:20	3088.	68.
27	2157.	N.A.	N.A.	308.	12:42	3092.	70.
28	1981.	N.A.	N.A.	282.	12:25	3097.	64.
29	1794.	N.A.	N.A.	323.	10:44	3102.	58.
30	1595.	N.A.	N.A.	298.	12:29	3106.	51.
31	1270.	N.A.	N.A.	352.	12:27	3111.	41.
MEAN	1900.	N.A.	N.A.			3050.	
STANDARD DEVIATION	244.	N.A.	N.A.			32.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TEMPE UNION HIGH SCHOOL
TEMPE, ARIZONA

REPORT PERIOD: 8/ 7
SITE NUMBER: 34

LATITUDE: 33.26 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 111.50 DEG WEST PYRANOMETER TILT: 32 DEG ALTITUDE: 1117 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	90.	100.	82.	111.	15:24	75.	5:37	89.
2	93.	101.	85.	110.	15: 2	73.	5:42	89.
3	97.	104.	91.	116.	16:40	76.	5:26	89.
4	95.	100.	90.	114.	18: 6	81.	4:40	91.
5	97.	105.	89.	114.	14: 6	77.	3:52	93.
6	96.	103.	90.	111.	13:50	80.	5:39	88.
7	93.	99.	87.	110.	14:49	78.	6:22	85.
8	92.	101.	85.	109.	14:51	77.	5:45	84.
9	97.	104.	89.	111.	13:31	79.	5: 4	85.
10	95.	103.	87.	114.	16:17	80.	4:34	90.
11	88.	96.	79.	109.	14:25	74.	18:14	91.
12	88.	98.	79.	108.	14:40	75.	2: 4	89.
13	89.	95.	84.	107.	15:55	75.	5:47	87.
14	93.	100.	85.	109.	13:52	80.	4:53	87.
15	93.	101.	85.	107.	13:41	70.	22:58	88.
16	87.	94.	79.	105.	14:32	69.	5:38	86.
17	91.	99.	83.	110.	16:55	73.	5:53	83.
18	95.	102.	88.	111.	15:29	76.	5:32	87.
19	95.	102.	87.	109.	14:22	79.	5:43	91.
20	96.	103.	89.	112.	18: 0	80.	4: 8	90.
21	98.	104.	91.	112.	15:51	82.	4:51	90.
22	95.	100.	90.	114.	16:32	78.	6:31	91.
23	97.	105.	90.	115.	15:12	79.	5:26	90.
24	97.	105.	89.	115.	15: 5	81.	4:14	93.
25	90.	94.	86.	101.	16:44	79.	23:29	95.
26	93.	101.	85.	112.	16: 4	77.	4: 7	93.
27	93.	101.	86.	113.	14:44	80.	5:56	92.
28	94.	101.	87.	115.	15:35	76.	2:11	89.
29	95.	102.	88.	112.	15:57	74.	23:23	89.
30	89.	94.	83.	107.	17:47	73.	0:27	89.
31	90.	94.	85.	103.	13:36	77.	4:43	87.
MEAN	93.	100.	86.					89.
STANDARD DEVIATION	3.2	3.4	3.4					2.8

ZONE 9



ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 31

LATITUDE: 36.80 DEG NORTH
LONGITUDE: 119.43 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: PACIFIC
ALTITUDE: 328 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2046.	N.A.	N.A.	275.	12: 9	3184.	64.
2	2001.	N.A.	N.A.	272.	12: 2	3184.	63.
3	2061.	N.A.	N.A.	281.	11: 49	3185.	65.
4	1889.	N.A.	N.A.	275.	10: 20	3186.	59.
5	1985.	N.A.	N.A.	269.	11: 49	3187.	62.
6	2036.	N.A.	N.A.	275.	11: 54	3188.	64.
7	2092.	N.A.	N.A.	281.	11: 38	3192.	66.
8	2075.	N.A.	N.A.	281.	11: 38	3193.	65.
9	2038.	N.A.	N.A.	287.	13: 45	3195.	64.
10	2043.	N.A.	N.A.	278.	12: 1	3196.	64.
11	2108.	N.A.	N.A.	281.	11: 41	3198.	66.
12	2133.	N.A.	N.A.	284.	11: 44	3199.	67.
13	2123.	N.A.	N.A.	284.	11: 39	3201.	66.
14	2064.	N.A.	N.A.	281.	11: 50	3203.	64.
15	2014.	N.A.	N.A.	269.	11: 43	3207.	63.
16	1983.	N.A.	N.A.	269.	11: 49	3209.	62.
17	2187.	N.A.	N.A.	278.	11: 48	3211.	68.
18	2077.	N.A.	N.A.	278.	11: 46	3213.	65.
19	2059.	N.A.	N.A.	281.	11: 54	3215.	64.
20	2086.	N.A.	N.A.	281.	11: 54	3217.	65.
21	1929.	N.A.	N.A.	281.	12: 2	3219.	60.
22	2023.	N.A.	N.A.	278.	11: 44	3222.	63.
23	2066.	N.A.	N.A.	278.	11: 45	3224.	64.
24	2076.	N.A.	N.A.	278.	11: 48	3226.	64.
25	2038.	N.A.	N.A.	275.	11: 45	3228.	63.
26	2076.	N.A.	N.A.	278.	12: 15	3231.	64.
27	2015.	N.A.	N.A.	269.	11: 43	3236.	62.
28	1988.	N.A.	N.A.	272.	11: 50	3238.	61.
29	2013.	N.A.	N.A.	272.	12: 4	3240.	62.
30	2021.	N.A.	N.A.	275.	12: 2	3243.	62.
31	2074.	N.A.	N.A.	275.	11: 40	3245.	64.
MEAN	2046.	N.A.	N.A.			3210.	
STANDARD DEVIATION	58.	N.A.	N.A.			19.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 31

LATITUDE: 36.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 119.43 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 328 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	87.	95.	79.	107.	16:39	71.	4:52	83.
2	86.	93.	78.	106.	16:24	66.	4:39	78.
3	87.	95.	79.	107.	15:23	67.	4:56	97.
4	89.	97.	80.	107.	15: 8	70.	5: 0	101.
5	87.	94.	81.	107.	15:44	71.	5: 4	92.
6	87.	95.	79.	104.	13:52	70.	4:48	79.
7	79.	84.	73.	96.	15:22	66.	5: 4	80.
8	83.	92.	73.	103.	15:42	58.	4:48	79.
9	86.	96.	76.	107.	15:45	65.	5: 2	82.
10	83.	91.	75.	102.	15:25	64.	4:44	78.
11	82.	91.	73.	101.	14:53	61.	4:56	86.
12	79.	87.	71.	97.	15:18	61.	4:59	82.
13	80.	89.	70.	99.	16: 1	57.	4: 6	77.
14	84.	94.	74.	104.	15:11	61.	4:22	77.
15	88.	97.	78.	108.	15:44	65.	5: 3	79.
16	86.	94.	77.	104.	16: 6	68.	4:43	78.
17	81.	89.	73.	99.	15:19	62.	4:54	79.
18	82.	90.	73.	102.	15:30	60.	4:23	83.
19	87.	96.	77.	108.	16: 5	62.	5: 1	84.
20	88.	97.	78.	108.	15:57	65.	4:47	78.
21	87.	97.	77.	107.	14:18	65.	4:34	80.
22	87.	96.	77.	108.	15: 1	62.	4:59	80.
23	85.	94.	76.	105.	15:16	65.	4:22	80.
24	85.	95.	76.	107.	15: 7	62.	5: 8	76.
25	86.	95.	77.	106.	16:11	64.	5:10	92.
26	85.	94.	76.	106.	14:50	62.	4:58	101.
27	86.	94.	77.	105.	15:18	66.	5:14	77.
28	86.	95.	77.	106.	15:10	64.	4:59	79.
29	86.	96.	76.	107.	14:42	64.	5: 2	79.
30	83.	92.	74.	103.	15: 2	64.	5:16	81.
31	81.	89.	72.	101.	16:18	60.	4:17	78.
MEAN	85.	93.	76.					82.
STANDARD DEVIATION	2.7	3.1	2.6					6.8

ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 31

LATITUDE: 36.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 119.43 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 328 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	WIND DIRECTION	TIME HR:MN
1	276.	3.	272.	1.	14.	288.	0:14
2	*	2.	*	1.	13.	*	22:32
3	*	2.	*	1.	9.	*	21:10
4	281.	5.	268.	3.	21.	281.	21:0
5	287.	5.	298.	2.	20.	296.	19:33
6	280.	5.	271.	4.	23.	283.	17:41
7	282.	6.	281.	6.	16.	286.	1:46
8	*	1.	*	1.	8.	*	13:57
9	283.	3.	*	3.	16.	288.	22:15
10	284.	4.	276.	3.	15.	290.	18:16
11	280.	4.	269.	2.	13.	280.	21:12
12	282.	5.	276.	4.	16.	291.	17:26
13	271.	2.	264.	3.	12.	274.	17:53
14	*	2.	*	3.	10.	*	14:9
15	273.	3.	255.	3.	14.	287.	22:51
16	284.	4.	278.	3.	15.	291.	17:58
17	281.	4.	270.	4.	12.	277.	16:23
18	*	2.	*	2.	10.	*	15:56
19	*	1.	*	1.	10.	*	18:18
20	279.	3.	278.	3.	13.	263.	16:39
21	*	2.	*	4.	12.	*	14:29
22	*	1.	*	2.	8.	*	15:49
23	*	2.	*	2.	11.	*	18:12
24	*	1.	*	1.	10.	*	0:25
25	*	1.	*	2.	9.	*	15:34
26	*	2.	*	2.	10.	*	15:11
27	278.	3.	272.	3.	13.	275.	16:17
28	274.	3.	269.	3.	14.	262.	17:40
29	281.	3.	278.	4.	17.	286.	18:4
30	282.	3.	263.	3.	13.	254.	18:9
31	281.	3.	268.	2.	11.	278.	18:37
MEAN	280.	3.	273.	3.			
STANDARD DEVIATION	3.9	1.4	9.0	1.1			

ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 31

LATITUDE: 36.80 DEG NORTH
LONGITUDE: 119.43 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: PACIFIC
ALTITUDE: 328 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	16	8	0	0	0	0	0	0	0
2	23	1	0	0	0	0	0	0	0
3	19	5	0	0	0	0	0	0	0
4	13	3	8	0	0	0	0	0	0
5	12	6	6	0	0	0	0	0	0
6	11	4	7	2	0	0	0	0	0
7	6	12	6	0	0	0	0	0	0
8	23	1	0	0	0	0	0	0	0
9	14	7	3	0	0	0	0	0	0
10	11	11	2	0	0	0	0	0	0
11	14	7	3	0	0	0	0	0	0
12	11	7	6	0	0	0	0	0	0
13	20	4	0	0	0	0	0	0	0
14	20	4	0	0	0	0	0	0	0
15	13	8	3	0	0	0	0	0	0
16	14	6	4	0	0	0	0	0	0
17	14	9	1	0	0	0	0	0	0
18	20	4	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	15	9	0	0	0	0	0	0	0
21	19	5	0	0	0	0	0	0	0
22	24	0	0	0	0	0	0	0	0
23	19	5	0	0	0	0	0	0	0
24	23	1	0	0	0	0	0	0	0
25	21	3	0	0	0	0	0	0	0
26	21	3	0	0	0	0	0	0	0
27	16	8	0	0	0	0	0	0	0
28	16	8	0	0	0	0	0	0	0
29	12	10	2	0	0	0	0	0	0
30	15	8	1	0	0	0	0	0	0
31	15	8	0	0	0	0	0	0	1
AVERAGE	16.6	5.6	1.7	0.1	0.0	0.0	0.0	0.0	0.0
TOTAL	514	175	52	2	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: EL TORO LIBRARY
EL TORO, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 173

LATITUDE: 33.68 DEG NORTH
LONGITUDE: 117.70 DEG WEST

AZIMUTH: -30 DEG
PYRANOMETER TILT: 33 DEG

TIME ZONE: PACIFIC
ALTITUDE: 135 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2117.	N.A.	N.A.	301.	11:24	3099.	68.
2	2275.	N.A.	N.A.	287.	11:39	3100.	73.
3	2239.	N.A.	N.A.	291.	11:51	3101.	72.
4	2214.	N.A.	N.A.	284.	11:51	3102.	71.
5	2182.	N.A.	N.A.	284.	11:51	3104.	70.
6	2143.	N.A.	N.A.	280.	12:13	3105.	69.
7	2173.	N.A.	N.A.	284.	11:46	3107.	70.
8	*	N.A.	N.A.	*	*:*	3109.	*
9	*	N.A.	N.A.	*	*:*	3111.	*
10	*	N.A.	N.A.	*	*:*	3113.	*
11	*	N.A.	N.A.	*	*:*	3115.	*
12	*	N.A.	N.A.	*	*:*	3114.	*
13	*	N.A.	N.A.	*	*:*	3116.	*
14	*	N.A.	N.A.	*	*:*	3118.	*
15	*	N.A.	N.A.	*	*:*	3121.	*
16	*	N.A.	N.A.	*	*:*	3124.	*
17	*	N.A.	N.A.	*	*:*	3126.	*
18	*	N.A.	N.A.	*	*:*	3126.	*
19	*	N.A.	N.A.	*	*:*	3131.	*
20	*	N.A.	N.A.	*	*:*	3134.	*
21	*	N.A.	N.A.	*	*:*	3137.	*
22	*	N.A.	N.A.	*	*:*	3137.	*
23	*	N.A.	N.A.	*	*:*	3140.	*
24	*	N.A.	N.A.	*	*:*	3143.	*
25	*	N.A.	N.A.	*	*:*	3147.	*
26	*	N.A.	N.A.	*	*:*	3150.	*
27	*	N.A.	N.A.	*	*:*	3149.	*
28	1615.	N.A.	N.A.	287.	12: 4	3156.	51.
29	1876.	N.A.	N.A.	287.	13: 3	3159.	59.
30	2079.	N.A.	N.A.	294.	11:45	3159.	66.
31	2114.	N.A.	N.A.	298.	13: 1	3162.	67.
MEAN	1945.*	N.A.	N.A.			3126.	
STANDARD DEVIATION	543.*	N.A.	N.A.			20.	

ENVIRONMENTAL SUMMARY REPORT

SITE: EL TORO LIBRARY
EL TORO, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 173

LATITUDE: 33.68 DEG NORTH AZIMUTH: -30 DEG TIME ZONE: PACIFIC
LONGITUDE: 117.70 DEG WEST PYRANOMETER TILT: 33 DEG ALTITUDE: 135 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	72.	79.	65.	89.	12: 2	63.	3: 8	N.A.
2	77.	86.	68.	97.	11: 50	63.	5: 58	N.A.
3	84.	95.	72.	106.	12: 2	65.	4: 44	N.A.
4	78.	86.	70.	92.	13: 59	67.	4: 18	N.A.
5	80.	89.	71.	96.	11: 57	67.	4: 23	N.A.
6	80.	88.	72.	98.	11: 30	68.	4: 45	N.A.
7	76.	82.	70.	89.	11: 30	68.	4: 39	N.A.
8	75.	81.	70.	87.	10: 38	68.	1: 50	N.A.
9	71.	71.	70.	83.	15: 44	68.	6: 8	N.A.
10	*	*	*	*	*:*	*	*:*	N.A.
11	*	*	*	*	*:*	*	*:*	N.A.
12	*	*	*	*	*:*	*	*:*	N.A.
13	*	*	*	*	*:*	*	*:*	N.A.
14	*	*	*	*	*:*	*	*:*	N.A.
15	*	*	*	*	*:*	*	*:*	N.A.
16	*	*	*	*	*:*	*	*:*	N.A.
17	*	*	*	*	*:*	*	*:*	N.A.
18	*	*	*	*	*:*	*	*:*	N.A.
19	*	*	*	*	*:*	*	*:*	N.A.
20	*	*	*	*	*:*	*	*:*	N.A.
21	*	*	*	*	*:*	*	*:*	N.A.
22	*	*	*	*	*:*	*	*:*	N.A.
23	*	*	*	*	*:*	*	*:*	N.A.
24	*	*	*	*	*:*	*	*:*	N.A.
25	*	*	*	*	*:*	*	*:*	N.A.
26	*	*	*	*	*:*	*	*:*	N.A.
27	*	*	*	*	*:*	*	*:*	N.A.
28	76.	78.	70.	93.	11: 59	67.	23: 38	N.A.
29	73.	79.	67.	91.	11: 54	63.	23: 13	N.A.
30	73.	80.	67.	92.	12: 22	64.	2: 52	N.A.
31	75.	82.	67.	94.	12: 7	64.	4: 55	N.A.
MEAN	76.	83.	69.					N.A.
STANDARD DEVIATION	3.6	6.0	2.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: IRVINE SCHOOL
IRVINE, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 16

LATITUDE: 33.73 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 117.78 DEG WEST PYRANOMETER TILT: 25 DEG
TIME ZONE: PACIFIC
ALTITUDE: 200 FEET

DAY	TOTAL INSOLATION				EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT	
	TOTAL INSOLATION BTU/FT2	HORIZONTAL TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2			
				TIME HR:MN			
1	1953.	2146.	N.A.	312.	11:39	3240.	60.
2	2226.	2450.	N.A.	305.	11:45	3241.	69.
3	2196.	2437.	N.A.	302.	11:34	3242.	68.
4	2194.	2436.	N.A.	294.	11:18	3242.	68.
5	2184.	2407.	N.A.	298.	11:51	3243.	67.
6	2160.	2379.	N.A.	291.	11:13	3244.	67.
7	2119.	2295.	N.A.	294.	11:17	3245.	65.
8	2172.	2350.	N.A.	294.	11:22	3245.	67.
9	2092.	2254.	N.A.	291.	11:26	3246.	64.
10	2102.	2267.	N.A.	302.	11:42	3250.	65.
11	2065.	2220.	N.A.	302.	11:27	3251.	64.
12	1997.	2160.	N.A.	305.	11:29	3252.	61.
13	2248.	2458.	N.A.	309.	11:24	3254.	69.
14	1741.	1895.	N.A.	351.	11:51	3255.	53.
15	1055.	1162.	N.A.	284.	10:40	3256.	32.
16	2151.	2303.	N.A.	298.	11:25	3260.	66.
17	2229.	2385.	N.A.	309.	11:33	3261.	68.
18	2254.	2399.	N.A.	312.	11:29	3263.	69.
19	2294.	2450.	N.A.	312.	11:27	3264.	70.
20	2205.	2346.	N.A.	305.	11:27	3266.	68.
21	2066.	2198.	N.A.	404.	12:21	3267.	63.
22	2203.	2326.	N.A.	309.	11:43	3269.	67.
23	2295.	2401.	N.A.	309.	11:41	3270.	70.
24	2149.	2249.	N.A.	312.	11:44	3272.	66.
25	2228.	2342.	N.A.	316.	11:32	3276.	68.
26	2160.	2255.	N.A.	316.	11:31	3277.	66.
27	1899.	1980.	N.A.	309.	11:43	3279.	58.
28	1848.	1935.	N.A.	309.	11:42	3280.	56.
29	1838.	1929.	N.A.	302.	11:40	3282.	56.
30	2105.	2174.	N.A.	309.	11:35	3284.	64.
31	2137.	2202.	N.A.	316.	11:54	3285.	65.
MEAN	2083.	2232.	N.A.			3260.	
STANDARD DEVIATION	235.	254.	N.A.			15.	

ENVIRONMENTAL SUMMARY REPORT

SITE: IRVINE SCHOOL
IRVINE, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 16

LATITUDE: 33.73 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 117.78 DEG WEST PYRANOMETER TILT: 25 DEG ALTITUDE: 200 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	71.	78.	63.	86.	11:44	60.	1:25	N.A.
2	74.	83.	65.	91.	15:29	60.	0: 1	N.A.
3	81.	93.	68.	104.	14:19	59.	4:55	N.A.
4	81.	91.	71.	101.	15: 2	66.	3:50	N.A.
5	79.	87.	70.	93.	9:43	65.	4:27	N.A.
6	78.	86.	69.	91.	14:57	64.	3:19	N.A.
7	76.	84.	69.	89.	15:33	65.	3:29	N.A.
8	76.	82.	69.	90.	9:14	67.	20:35	N.A.
9	75.	82.	68.	88.	11:58	65.	23:53	N.A.
10	74.	80.	68.	86.	10:43	65.	0: 3	N.A.
11	75.	81.	68.	88.	10:39	65.	23:54	N.A.
12	74.	80.	67.	88.	12: 1	63.	1:46	N.A.
13	77.	86.	67.	92.	9:43	62.	4:17	N.A.
14	78.	87.	68.	96.	10:57	61.	4:17	N.A.
15	77.	83.	71.	93.	11:23	68.	23:57	N.A.
16	76.	84.	68.	90.	10:31	66.	2:42	N.A.
17	76.	83.	69.	90.	10: 2	66.	22:52	N.A.
18	77.	85.	69.	91.	10: 9	65.	23:51	N.A.
19	76.	84.	67.	93.	11:32	63.	23:54	N.A.
20	76.	85.	66.	92.	11:27	61.	1:51	N.A.
21	76.	84.	68.	93.	11:54	62.	23:48	N.A.
22	73.	82.	64.	88.	9:51	59.	5:14	N.A.
23	74.	82.	66.	88.	10:21	62.	0:36	N.A.
24	74.	81.	67.	87.	10:24	63.	0:48	N.A.
25	73.	79.	66.	88.	10:12	63.	23:21	N.A.
26	73.	79.	67.	86.	11:42	64.	0: 4	N.A.
27	73.	79.	66.	86.	10:55	62.	23:21	N.A.
28	71.	77.	64.	86.	12:46	61.	1:40	N.A.
29	71.	77.	64.	85.	12:28	61.	23:41	N.A.
30	71.	78.	64.	87.	10:53	60.	0:13	N.A.
31	72.	79.	65.	86.	11:22	60.	0:53	N.A.
MEAN	75.	83.	67.					N.A.
STANDARD DEVIATION	2.7	3.8	2.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: LAKE VALLEY FIREHOUSE
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 11

LATITUDE: 38.57 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 119.58 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 6300 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1767.	N.A.	N.A.	265.	11:48	2298.	77.
2	1619.	N.A.	N.A.	289.	12: 6	2301.	70.
3	1646.	N.A.	N.A.	265.	11:52	2305.	71.
4	1499.	N.A.	N.A.	279.	12:56	2309.	65.
5	1665.	N.A.	N.A.	305.	12:19	2313.	72.
6	1243.	N.A.	N.A.	265.	10:48	2317.	54.
7	1820.	N.A.	N.A.	275.	11:47	2320.	78.
8	1828.	N.A.	N.A.	275.	11:57	2325.	79.
9	*	N.A.	N.A.	*	*:*	2331.	*
10	*	N.A.	N.A.	*	*:*	2336.	*
11	1708.	N.A.	N.A.	272.	11:41	2340.	73.
12	1827.	N.A.	N.A.	275.	11:55	2347.	78.
13	1884.	N.A.	N.A.	282.	12:18	2353.	80.
14	1949.	N.A.	N.A.	275.	12: 5	2360.	83.
15	1787.	N.A.	N.A.	265.	11:44	2368.	75.
16	1804.	N.A.	N.A.	269.	11:34	2375.	76.
17	1820.	N.A.	N.A.	272.	11:36	2381.	76.
18	1884.	N.A.	N.A.	282.	12: 2	2389.	79.
19	2029.	N.A.	N.A.	282.	11:51	2398.	85.
20	1871.	N.A.	N.A.	279.	11:51	2406.	78.
21	1877.	N.A.	N.A.	285.	12: 2	2415.	78.
22	1854.	N.A.	N.A.	289.	12:16	2422.	77.
23	1799.	N.A.	N.A.	292.	11:34	2432.	74.
24	1843.	N.A.	N.A.	275.	11:54	2439.	76.
25	1972.	N.A.	N.A.	282.	12:17	2449.	81.
26	1872.	N.A.	N.A.	279.	12:30	2460.	76.
27	1882.	N.A.	N.A.	279.	12:25	2470.	76.
28	1807.	N.A.	N.A.	279.	12: 2	2479.	73.
29	1860.	N.A.	N.A.	285.	11:52	2490.	75.
30	1826.	N.A.	N.A.	285.	11:52	2501.	73.
31	1935.	N.A.	N.A.	289.	11:32	2512.	77.
MEAN	1799.	N.A.	N.A.			2385.	
STANDARD DEVIATION	153.	N.A.	N.A.			66.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LAKE VALLEY FIREHOUSE
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 11

LATITUDE: 38.57 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 119.58 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 6300 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	65.	80.	53.	86.	14: 6	37.	5:13	77.
2	66.	79.	57.	90.	14:22	46.	5:37	77.
3	67.	81.	56.	90.	16:46	43.	4:40	78.
4	68.	81.	58.	92.	14:48	45.	3:58	77.
5	68.	78.	59.	86.	14:22	53.	2:54	78.
6	63.	73.	55.	78.	10:43	47.	5:18	76.
7	65.	77.	55.	84.	16:24	40.	5:28	75.
8	61.	77.	49.	84.	13:28	34.	5:28	75.
9	59.	77.	38.	85.	13: 0	35.	4:50	74.
10	67.	78.	56.	82.	14:21	44.	23:57	71.
11	58.	75.	46.	82.	14:42	36.	4:34	69.
12	58.	74.	44.	80.	14:14	34.	4:43	73.
13	57.	73.	43.	85.	15:46	27.	4: 7	73.
14	63.	79.	49.	90.	16:32	33.	4:53	73.
15	65.	81.	52.	90.	15: 8	39.	4:43	74.
16	66.	82.	53.	90.	13:21	41.	5: 5	76.
17	63.	79.	49.	89.	14: 5	36.	5:28	74.
18	63.	79.	48.	90.	14:10	30.	4:44	74.
19	63.	81.	48.	94.	14:15	30.	5:16	75.
20	64.	80.	50.	92.	14:42	36.	5: 6	75.
21	64.	81.	49.	92.	14:51	31.	5:12	74.
22	62.	79.	48.	94.	15:23	33.	5: 4	75.
23	64.	79.	50.	92.	15: 6	34.	4:59	75.
24	64.	81.	49.	90.	13: 8	36.	5:30	75.
25	62.	79.	49.	90.	15: 2	34.	5:15	76.
26	65.	79.	52.	88.	16:57	39.	4:51	77.
27	65.	81.	52.	92.	15: 4	41.	5: 2	78.
28	61.	77.	51.	90.	13: 6	37.	5: 6	77.
29	61.	78.	47.	86.	13: 1	34.	5:12	78.
30	60.	78.	45.	87.	14:48	33.	5:22	77.
31	61.	77.	47.	88.	15: 9	34.	5:44	77.
MEAN	63.	78.	50.					75.
STANDARD DEVIATION	2.9	2.4	4.6					2.1

ENVIRONMENTAL SUMMARY REPORT

SITE: LAWRENCE BERKELEY
BERKELEY, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 228

LATITUDE: 37.83 DEG NORTH
LONGITUDE: 122.22 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: PACIFIC
ALTITUDE: 700 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	1983.	N.A.	N.A.	278.	11:55	2693.	74.
2	1979.	N.A.	N.A.	278.	12: 8	2696.	73.
3	1975.	N.A.	N.A.	295.	11:46	2698.	73.
4	1722.	N.A.	N.A.	284.	12:13	2701.	64.
5	1090.	N.A.	N.A.	298.	11:44	2704.	40.
6	2087.	N.A.	N.A.	281.	12:16	2708.	77.
7	1981.	N.A.	N.A.	284.	11:50	2711.	73.
8	2118.	N.A.	N.A.	284.	12: 0	2715.	78.
9	1928.	N.A.	N.A.	291.	11:56	2719.	71.
10	2070.	N.A.	N.A.	288.	12:11	2723.	76.
11	2070.	N.A.	N.A.	288.	12: 0	2728.	76.
12	2034.	N.A.	N.A.	288.	11:56	2733.	74.
13	2009.	N.A.	N.A.	281.	11:51	2738.	73.
14	2007.	N.A.	N.A.	281.	12: 1	2743.	73.
15	2084.	N.A.	N.A.	295.	12:27	2746.	76.
16	1001.	N.A.	N.A.	302.	12:53	2751.	36.
17	990.	N.A.	N.A.	257.	14:24	2757.	36.
18	*	N.A.	N.A.	*	*:*	2763.	*
19	2315.	N.A.	N.A.	291.	12: 8	2769.	84.
20	2114.	N.A.	N.A.	291.	11:52	2776.	76.
21	2093.	N.A.	N.A.	291.	12: 2	2782.	75.
22	2085.	N.A.	N.A.	298.	12:22	2789.	75.
23	1796.	N.A.	N.A.	302.	12:16	2796.	64.
24	1858.	N.A.	N.A.	291.	12: 8	2803.	66.
25	2024.	N.A.	N.A.	291.	12:16	2811.	72.
26	981.	N.A.	N.A.	240.	11:59	2815.	35.
27	1017.	N.A.	N.A.	226.	13:35	2823.	36.
28	1846.	N.A.	N.A.	284.	12:46	2831.	65.
29	1486.	N.A.	N.A.	291.	12:50	2839.	52.
30	867.	N.A.	N.A.	151.	13:30	2847.	30.
31	1042.	N.A.	N.A.	267.	14: 5	2852.	37.
MEAN	1755.	N.A.	N.A.			2760.	
STANDARD DEVIATION	449.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LAWRENCE BERKELEY
BERKELEY, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 228

LATITUDE: 37.83 DEG NORTH
LONGITUDE: 122.22 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: PACIFIC
ALTITUDE: 700 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	60.	66.	54.	72.	13:47	52.	2:25	67.
2	61.	69.	54.	76.	9:54	51.	2:26	67.
3	62.	71.	54.	78.	12:13	49.	1:34	74.
4	67.	75.	60.	91.	15:35	50.	3:57	76.
5	68.	73.	64.	85.	11:39	55.	23:44	82.
6	63.	71.	55.	80.	14: 8	51.	3:18	76.
7	72.	80.	64.	88.	15: 7	52.	2:40	68.
8	74.	83.	65.	92.	11:18	53.	23:50	69.
9	64.	72.	55.	80.	14: 4	50.	5:58	69.
10	63.	70.	55.	80.	13:57	51.	4:59	69.
11	60.	67.	53.	73.	14:50	50.	5:30	76.
12	61.	68.	55.	79.	14:36	50.	4: 0	76.
13	73.	82.	65.	90.	15:45	52.	0:55	69.
14	78.	88.	67.	96.	13:26	53.	23:55	70.
15	59.	67.	52.	74.	12: 1	50.	5:10	69.
16	54.	58.	51.	68.	13:31	50.	3:12	69.
17	54.	57.	50.	68.	14:46	32.	19: 5	68.
18	*	*	*	*	*:*	*	*:*	*
19	67.	73.	57.	80.	13: 1	49.	22:32	76.
20	62.	72.	53.	86.	14:32	46.	1:49	68.
21	61.	70.	52.	80.	15: 4	48.	3:52	69.
22	59.	67.	52.	73.	11:12	48.	1:10	68.
23	58.	64.	53.	72.	14:24	51.	2:35	68.
24	59.	65.	53.	73.	15: 4	50.	2:58	67.
25	59.	66.	52.	73.	13:31	49.	22:19	69.
26	57.	61.	53.	69.	13:25	51.	0:22	69.
27	57.	62.	53.	70.	13:35	52.	3:17	67.
28	59.	65.	53.	74.	13:13	50.	23:14	68.
29	58.	63.	53.	71.	14:13	51.	4:13	67.
30	56.	60.	52.	65.	13:52	51.	23:30	68.
31	56.	60.	52.	70.	14: 0	50.	0: 2	67.
MEAN	62.	69.	55.					70.
STANDARD DEVIATION	6.0	7.5	4.9					3.8

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 159

LATITUDE: 38.38 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 121.35 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 17 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL 45 DEG INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1495.	1931.	N.A.	205.	11:47	2056.	73.
2	1467.	1863.	N.A.	201.	11:27	2060.	71.
3	1462.	1873.	N.A.	208.	12:33	2064.	71.
4	1344.	1637.	N.A.	233.	12:49	2068.	65.
5	1129.	1362.	N.A.	230.	11:35	2070.	55.
6	1506.	1970.	N.A.	208.	12: 1	2075.	73.
7	1508.	1963.	N.A.	230.	12: 24	2081.	72.
8	1568.	2042.	N.A.	214.	12:35	2087.	75.
9	1543.	1969.	N.A.	236.	12:17	2093.	74.
10	1512.	1968.	N.A.	214.	12:24	2100.	72.
11	1595.	2065.	N.A.	227.	12:48	2104.	76.
12	1559.	2034.	N.A.	214.	12:11	2111.	74.
13	1552.	2016.	N.A.	220.	11:50	2117.	73.
14	1562.	2017.	N.A.	223.	12:40	2125.	74.
15	1553.	2028.	N.A.	220.	12:32	2133.	73.
16	1562.	2024.	N.A.	217.	12:31	2141.	73.
17	1566.	2002.	N.A.	227.	12:28	2148.	73.
18	1591.	2027.	N.A.	230.	12:29	2157.	74.
19	1618.	2081.	N.A.	217.	13: 2	2167.	75.
20	1546.	1980.	N.A.	223.	12: 3	2177.	71.
21	1590.	2021.	N.A.	230.	11:56	2185.	73.
22	1604.	2024.	N.A.	230.	12:52	2195.	73.
23	1578.	2024.	N.A.	230.	12:40	2204.	72.
24	1551.	1974.	N.A.	217.	12:46	2215.	70.
25	1566.	1997.	N.A.	227.	12:45	2226.	70.
26	1560.	1985.	N.A.	211.	12:34	2236.	70.
27	1548.	1967.	N.A.	211.	11:46	2248.	69.
28	1528.	1946.	N.A.	214.	12:53	2260.	68.
29	1603.	2037.	N.A.	230.	12:50	2270.	71.
30	1648.	2081.	N.A.	236.	11:52	2280.	72.
31	1641.	2068.	N.A.	233.	12:50	2294.	72.
MEAN	1537.	1967.	N.A.			2153.	
STANDARD DEVIATION	96.	140.	N.A.			73.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 159

LATITUDE: 38.38 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 121.35 DEG WEST PYRANOMETER TILT: 60 DEG
TIME ZONE: PACIFIC
ALTITUDE: 17 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	74.	86.	65.	96.	15:10	53.	5:1	N.A.
2	80.	91.	71.	101.	15:0	57.	4:21	N.A.
3	83.	94.	74.	107.	14:52	60.	5:21	N.A.
4	83.	94.	76.	107.	15:45	61.	5:0	N.A.
5	82.	90.	76.	99.	12:44	67.	23:56	N.A.
6	78.	89.	69.	100.	13:27	60.	5:5	N.A.
7	75.	83.	69.	92.	16:3	60.	3:8	N.A.
8	80.	93.	71.	100.	15:7	57.	5:23	N.A.
9	78.	89.	68.	97.	13:48	58.	5:21	N.A.
10	76.	86.	68.	93.	14:43	57.	5:7	N.A.
11	72.	83.	63.	92.	15:1	53.	5:14	N.A.
12	73.	83.	65.	92.	15:7	53.	4:26	N.A.
13	79.	91.	69.	101.	16:24	52.	4:22	N.A.
14	84.	96.	75.	109.	16:48	59.	5:22	N.A.
15	81.	94.	70.	105.	15:33	59.	5:26	N.A.
16	71.	83.	62.	93.	15:2	52.	4:53	N.A.
17	68.	77.	61.	88.	14:36	51.	5:26	N.A.
18	75.	85.	66.	101.	15:41	52.	4:34	N.A.
19	79.	91.	68.	103.	16:3	53.	5:17	N.A.
20	80.	90.	71.	103.	14:6	57.	5:7	N.A.
21	81.	93.	72.	107.	16:9	57.	5:21	N.A.
22	78.	91.	68.	103.	13:45	59.	4:57	N.A.
23	76.	88.	66.	103.	15:47	51.	5:7	N.A.
24	77.	88.	67.	101.	14:43	55.	5:12	N.A.
25	80.	93.	69.	107.	16:13	54.	4:35	N.A.
26	78.	90.	69.	101.	14:48	59.	5:28	N.A.
27	75.	86.	67.	96.	14:56	59.	5:12	N.A.
28	75.	85.	66.	97.	16:13	57.	4:48	N.A.
29	73.	84.	64.	93.	14:32	57.	4:24	N.A.
30	70.	80.	61.	90.	15:24	53.	5:12	N.A.
31	70.	80.	61.	90.	15:2	52.	4:44	N.A.
MEAN	77.	88.	68.					N.A.
STANDARD DEVIATION	4.2	4.7	4.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 159

LATITUDE: 38.38 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 121.35 DEG WEST PYRANOMETER TILT: 60 DEG TIME ZONE: PACIFIC
ALTIMITUDE: 17 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM VALUE	HUMIDITY TIME HR:MN	MINIMUM VALUE	HUMIDITY TIME HR:MN
1	41.	27.	52.	75.	5:28	8.	16: 9
2	31.	20.	40.	69.	5:35	7.	12:20
3	28.	18.	36.	59.	5:21	5.	17: 0
4	26.	19.	31.	58.	5:10	5.	15:50
5	30.	25.	34.	47.	23:56	17.	12:44
6	33.	21.	42.	67.	4:49	3.	16:39
7	18.	10.	23.	43.	0:12	2.	15:47
8	16.	7.	23.	43.	5:55	*	*:*
9	27.	17.	36.	54.	5:32	7.	13:32
10	32.	19.	42.	63.	4:30	7.	15:17
11	38.	25.	49.	72.	5:36	6.	14:13
12	36.	22.	48.	73.	4:10	1.	16:48
13	31.	15.	43.	75.	4:59	3.	17: 6
14	24.	13.	32.	62.	5:44	3.	15:50
15	29.	14.	40.	60.	23:59	*	*:*
16	46.	29.	59.	77.	5:41	12.	15:29
17	52.	40.	62.	87.	5:48	21.	15:46
18	43.	30.	55.	81.	4:29	5.	15:25
19	35.	22.	46.	76.	5:33	1.	17:29
20	33.	22.	42.	68.	4:46	2.	17: 0
21	32.	20.	43.	68.	5:10	2.	15:16
22	36.	22.	48.	65.	5:13	4.	16:24
23	43.	27.	56.	81.	5:44	9.	16:14
24	40.	27.	51.	74.	5:28	11.	17: 7
25	38.	22.	51.	78.	5:39	6.	16:29
26	38.	26.	49.	65.	5:49	15.	14:32
27	41.	30.	51.	67.	6: 5	18.	14:51
28	45.	33.	54.	75.	5:25	17.	15:41
29	47.	32.	59.	78.	5: 1	15.	15:14
30	49.	34.	61.	79.	5:49	15.	15:40
31	50.	35.	63.	81.	5:11	18.	15:50
MEAN	36.	23.	46.				
STANDARD DEVIATION	9.	8.	11.				

ENVIRONMENTAL SUMMARY REPORT

SITE: MONTECITO PINES
SANTA ROSA, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 164

LATITUDE: 37.61 DEG NORTH AZIMUTH: 22 DEG
LONGITUDE: 122.38 DEG WEST PYRANOMETER TILT: 45 DEG
TIME ZONE: PACIFIC
ALTITUDE: 8 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	1835.	N.A.	N.A.	306.	11:19	2778.	66.
2	1855.	N.A.	N.A.	261.	11:15	2781.	67.
3	1820.	N.A.	N.A.	272.	11:34	2783.	65.
4	1750.	N.A.	N.A.	272.	11:44	2786.	63.
5	854.	N.A.	N.A.	312.	12:33	2788.	31.
6	1871.	N.A.	N.A.	275.	11:13	2791.	67.
7	2009.	N.A.	N.A.	286.	11:21	2795.	72.
8	2011.	N.A.	N.A.	284.	11:21	2798.	72.
9	1955.	N.A.	N.A.	286.	11:17	2802.	70.
10	2010.	N.A.	N.A.	284.	11:17	2803.	72.
11	2005.	N.A.	N.A.	281.	11: 9	2807.	71.
12	2065.	N.A.	N.A.	286.	11:28	2811.	73.
13	1968.	N.A.	N.A.	281.	11:28	2816.	70.
14	1988.	N.A.	N.A.	281.	11:20	2821.	70.
15	1958.	N.A.	N.A.	284.	11:29	2826.	69.
16	1765.	N.A.	N.A.	281.	11:25	2831.	62.
17	1617.	N.A.	N.A.	284.	11:21	2836.	57.
18	1799.	N.A.	N.A.	281.	11:36	2841.	63.
19	1958.	N.A.	N.A.	278.	11:15	2847.	69.
20	1780.	N.A.	N.A.	284.	11:31	2853.	62.
21	1968.	N.A.	N.A.	278.	11:17	2859.	69.
22	1762.	N.A.	N.A.	281.	11:19	2865.	62.
23	1852.	N.A.	N.A.	275.	11:18	2871.	64.
24	1773.	N.A.	N.A.	281.	11:39	2878.	62.
25	1894.	N.A.	N.A.	275.	11:17	2884.	66.
26	1650.	N.A.	N.A.	275.	11:24	2891.	57.
27	1232.	N.A.	N.A.	323.	11: 8	2895.	43.
28	1711.	N.A.	N.A.	275.	11:19	2902.	59.
29	1585.	N.A.	N.A.	298.	9:45	2909.	54.
30	1592.	N.A.	N.A.	281.	11: 9	2917.	55.
31	1479.	N.A.	N.A.	301.	10: 4	2924.	51.
MEAN	1786.	N.A.	N.A.			2838.	
STANDARD DEVIATION	252.	N.A.	N.A.			45.	

ENVIRONMENTAL SUMMARY REPORT

SITE: MONTECITO PINES
SANTA ROSA, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 164

LATITUDE: 37.61 DEG NORTH AZIMUTH: 22 DEG TIME ZONE: PACIFIC
LONGITUDE: 122.38 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 8 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	59.	66.	52.	76.	13:54	45.	2:10	77.
2	63.	72.	55.	82.	13:34	49.	0:14	76.
3	64.	71.	57.	86.	13:58	48.	1:48	76.
4	68.	73.	64.	89.	12:59	47.	4:11	81.
5	67.	71.	63.	83.	13:42	53.	23:56	77.
6	64.	70.	59.	83.	15: 8	50.	4:54	75.
7	69.	77.	62.	91.	17: 2	46.	5: 0	78.
8	71.	81.	60.	91.	14:11	48.	5:13	79.
9	66.	75.	57.	88.	16:11	45.	4:48	79.
10	65.	73.	57.	84.	12:43	44.	4:21	76.
11	62.	70.	55.	79.	15:15	44.	4:35	77.
12	62.	69.	55.	81.	17: 4	42.	4: 3	77.
13	71.	80.	63.	92.	13:10	46.	4:54	79.
14	73.	84.	63.	97.	13:12	51.	5:18	80.
15	62.	71.	53.	88.	13: 0	46.	3:56	77.
16	59.	65.	53.	77.	12:35	48.	4:40	78.
17	58.	63.	53.	75.	13:35	47.	23:36	78.
18	62.	69.	54.	86.	15:36	48.	23:52	79.
19	64.	72.	55.	86.	14: 1	47.	0:24	79.
20	63.	70.	57.	89.	13:39	48.	3:42	77.
21	64.	75.	55.	90.	12:42	44.	5: 9	79.
22	59.	68.	52.	85.	12:50	44.	4:18	78.
23	62.	70.	55.	84.	12:59	49.	21:58	77.
24	62.	68.	56.	84.	14:39	49.	5:20	76.
25	63.	72.	55.	86.	14:24	46.	5: 9	77.
26	60.	65.	54.	76.	13: 0	49.	4:16	77.
27	59.	63.	55.	74.	14:36	52.	4:28	79.
28	60.	66.	54.	77.	13:32	50.	5:16	78.
29	58.	64.	53.	77.	13:55	50.	3:27	78.
30	58.	64.	53.	77.	12:40	50.	5:23	77.
31	59.	64.	54.	77.	13:58	50.	5: 5	77.
MEAN	63.	70.	56.					78.
STANDARD DEVIATION	4.2	5.4	3.5					1.4

ENVIRONMENTAL SUMMARY REPORT

SITE: OAKMEAD
SANTA CLARA, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 197

LATITUDE: 37.20 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 121.55 DEG WEST PYRANOMETER TILT: 45 DEG
TIME ZONE: PACIFIC
ALTITUDE: 0 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	65.	71.	59.	80.	10:26	54.	4:18	73.
2	66.	73.	60.	83.	10:28	55.	4:41	72.
3	69.	75.	63.	85.	14: 8	58.	0:21	68.
4	72.	78.	66.	92.	12:32	58.	5: 4	73.
5	72.	78.	67.	86.	13:31	60.	22:29	75.
6	66.	72.	61.	79.	13:31	57.	4:27	73.
7	69.	78.	61.	86.	14:33	54.	4:32	75.
8	74.	86.	64.	101.	11:58	56.	4:14	74.
9	65.	75.	62.	79.	15:46	56.	23:19	73.
10	65.	72.	58.	81.	11:41	52.	3:30	72.
11	63.	70.	56.	79.	10:13	51.	5:25	71.
12	63.	70.	57.	80.	10:40	50.	5:31	72.
13	71.	80.	62.	93.	13:41	51.	4:48	73.
14	75.	87.	65.	100.	12:45	58.	4:50	72.
15	64.	71.	58.	82.	11:19	56.	2:57	73.
16	62.	68.	58.	74.	10:48	56.	3:36	73.
17	62.	67.	57.	76.	10:27	55.	21:56	73.
18	65.	72.	59.	81.	15:21	56.	23:53	70.
19	67.	75.	60.	87.	13: 5	56.	4: 9	69.
20	68.	76.	60.	87.	13:32	55.	2:36	73.
21	67.	75.	60.	85.	14:13	57.	0:37	71.
22	65.	73.	58.	84.	11:19	55.	5:37	73.
23	64.	71.	59.	83.	12:46	54.	5:50	73.
24	66.	74.	59.	86.	12:40	54.	5:17	74.
25	65.	72.	59.	86.	13: 2	54.	5:18	75.
26	65.	72.	59.	87.	11:25	54.	3:42	74.
27	65.	72.	59.	85.	11:25	55.	5:22	73.
28	66.	73.	59.	84.	11:46	56.	1:59	73.
29	64.	72.	57.	82.	12: 1	55.	23:53	73.
30	63.	71.	56.	80.	10:22	52.	4:25	73.
31	63.	69.	58.	79.	9:55	55.	5:18	73.
MEAN	66.	74.	60.					73.
STANDARD DEVIATION	3.4	4.5	2.7					1.6

ENVIRONMENTAL SUMMARY REPORT

SITE: SAN ANSELMO SCHOOL
SAN JOSE, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 145

LATITUDE: 37.21 DEG NORTH
LONGITUDE: 121.54 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: PACIFIC
ALTITUDE: 0 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS	
				VALUE BTU/HR/FT2	TIME HR:MN		EXT	INS PERCENT
1	1785.	N.A.	N.A.	257.	11:55	2864.	62.	
2	1780.	N.A.	N.A.	257.	11:54	2865.	62.	
3	1775.	N.A.	N.A.	282.	12:50	2868.	62.	
4	1539.	N.A.	N.A.	275.	12:44	2870.	54.	
5	1481.	N.A.	N.A.	275.	12:37	2872.	52.	
6	1793.	N.A.	N.A.	261.	11:55	2875.	62.	
7	1769.	N.A.	N.A.	272.	12:16	2878.	61.	
8	1858.	N.A.	N.A.	275.	12:23	2881.	64.	
9	1812.	N.A.	N.A.	268.	12: 5	2884.	63.	
10	1850.	N.A.	N.A.	272.	12:24	2888.	64.	
11	1857.	N.A.	N.A.	268.	12: 9	2891.	64.	
12	1921.	N.A.	N.A.	282.	12:25	2895.	66.	
13	1948.	N.A.	N.A.	275.	12: 9	2899.	67.	
14	1841.	N.A.	N.A.	272.	12: 7	2903.	63.	
15	1814.	N.A.	N.A.	272.	12: 9	2908.	62.	
16	1717.	N.A.	N.A.	272.	12: 5	2912.	59.	
17	1780.	N.A.	N.A.	268.	11:59	2917.	61.	
18	1876.	N.A.	N.A.	275.	12: 5	2922.	64.	
19	1828.	N.A.	N.A.	272.	12: 7	2927.	62.	
20	1900.	N.A.	N.A.	275.	12: 7	2932.	65.	
21	1819.	N.A.	N.A.	286.	12:13	2935.	62.	
22	1874.	N.A.	N.A.	282.	12: 3	2940.	64.	
23	1820.	N.A.	N.A.	279.	12: 4	2946.	62.	
24	1828.	N.A.	N.A.	272.	11:51	2951.	62.	
25	1796.	N.A.	N.A.	286.	11:54	2957.	61.	
26	1768.	N.A.	N.A.	279.	11:57	2963.	60.	
27	1820.	N.A.	N.A.	282.	11:57	2969.	61.	
28	1803.	N.A.	N.A.	279.	12: 6	2975.	61.	
29	1931.	N.A.	N.A.	279.	11:49	2982.	65.	
30	1897.	N.A.	N.A.	286.	11:58	2988.	63.	
31	1870.	N.A.	N.A.	286.	11:52	2995.	62.	
MEAN	1811.	N.A.	N.A.			2918.		
STANDARD DEVIATION	97.	N.A.	N.A.			40.		

ENVIRONMENTAL SUMMARY REPORT

SITE: SAN ANSELMO SCHOOL
SAN JOSE, CALIFORNIA

REPORT PERIOD: 8/ 7
SITE NUMBER: 145

LATITUDE: 37.21 DEG NORTH
LONGITUDE: 121.54 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: PACIFIC
ALTITUDE: 0 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	68.	77.	58.	89.	12:11	51.	4: 6	N.A.
2	69.	80.	59.	92.	12:16	53.	2:24	N.A.
3	72.	82.	60.	93.	14:10	53.	4:52	N.A.
4	75.	81.	69.	95.	14:10	60.	4:55	N.A.
5	76.	84.	69.	93.	13:15	61.	23:39	N.A.
6	70.	78.	62.	84.	11:33	57.	4:59	N.A.
7	71.	80.	62.	91.	14:25	54.	4:32	N.A.
8	77.	91.	64.	103.	13: 0	52.	4:39	N.A.
9	71.	81.	61.	90.	12: 5	54.	4:58	N.A.
10	68.	78.	58.	86.	12:56	50.	5:12	N.A.
11	66.	76.	56.	87.	11:16	48.	4:25	N.A.
12	66.	75.	56.	83.	15: 5	47.	4:41	N.A.
13	72.	83.	60.	96.	15:10	48.	5: 7	N.A.
14	79.	91.	67.	104.	14:42	56.	4:55	N.A.
15	70.	79.	61.	90.	14:23	55.	23:54	N.A.
16	65.	73.	58.	82.	12:26	55.	0: 5	N.A.
17	65.	72.	58.	82.	11:54	56.	23:54	N.A.
18	69.	78.	61.	89.	16: 5	55.	4:26	N.A.
19	72.	83.	62.	96.	14:47	53.	5:41	N.A.
20	72.	84.	61.	96.	14:58	49.	4:39	N.A.
21	72.	82.	61.	97.	14:48	55.	1:49	N.A.
22	68.	79.	58.	95.	13:28	50.	4:19	N.A.
23	67.	77.	58.	95.	14: 2	52.	4:42	N.A.
24	68.	78.	58.	94.	14:10	52.	4:45	N.A.
25	68.	77.	58.	97.	13:56	51.	2:18	N.A.
26	68.	79.	59.	96.	13: 6	53.	3:54	N.A.
27	67.	77.	58.	94.	13:49	53.	2:31	N.A.
28	68.	78.	58.	91.	13:10	52.	3:34	N.A.
29	67.	77.	58.	92.	12:48	53.	2:45	N.A.
30	66.	76.	56.	93.	13:50	51.	4:46	N.A.
31	66.	74.	57.	88.	13:23	53.	4: 8	N.A.
MEAN	70.	79.	60.					N.A.
STANDARD DEVIATION	3.5	4.4	3.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: SAN ANSELMO SCHOOL
SAN JOSE, CALIFORNIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 145

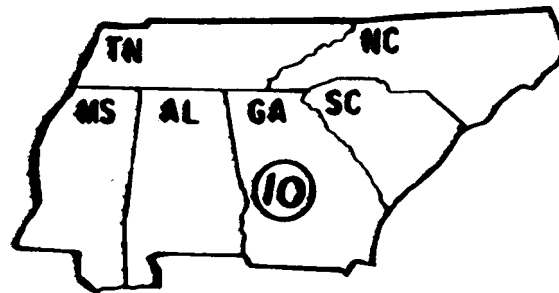
LATITUDE: 37.21 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 121.54 DEG WEST PYRANOMETER TILT: 40 DEG

TIME ZONE: PACIFIC
ALTITUDE: 0 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM VALUE	HUMIDITY TIME HR:MN	MINIMUM VALUE	HUMIDITY TIME HR:MN
1	32.	34.	30.	37.	9:42	28.	3:50
2	31.	33.	30.	34.	8:21	29.	3:44
3	33.	35.	31.	38.	9:45	29.	0: 4
4	32.	32.	31.	33.	8: 7	28.	22:26
5	30.	31.	30.	32.	14:45	29.	0:23
6	32.	33.	31.	36.	8:11	28.	23:23
7	25.	25.	24.	34.	7:49	17.	19: 3
8	20.	18.	21.	24.	6: 4	15.	11:29
9	26.	28.	24.	31.	8:10	22.	0:32
10	27.	27.	26.	30.	8:19	25.	12: 3
11	27.	28.	27.	29.	9:40	26.	4: 4
12	27.	27.	27.	29.	22:17	26.	3:32
13	27.	27.	26.	32.	7:47	22.	16:18
14	23.	23.	23.	27.	8:18	17.	15: 3
15	29.	31.	27.	35.	9:24	23.	0: 4
16	31.	32.	29.	36.	8: 5	28.	1:41
17	31.	32.	30.	36.	11: 1	28.	16:53
18	29.	29.	30.	31.	22:50	28.	11:38
19	29.	29.	30.	30.	21:54	28.	13:11
20	29.	29.	28.	32.	11:19	24.	16:44
21	30.	32.	28.	37.	8:34	26.	21:34
22	30.	30.	29.	33.	10:16	26.	4: 8
23	31.	32.	29.	34.	10: 7	28.	3:16
24	32.	33.	30.	37.	10:26	28.	0:50
25	31.	32.	31.	33.	18:12	29.	3: 6
26	33.	33.	32.	35.	17:33	30.	0:20
27	34.	34.	33.	35.	8: 2	32.	23:50
28	34.	36.	33.	39.	10: 4	32.	0:17
29	34.	35.	32.	39.	9:36	31.	23:36
30	32.	33.	31.	37.	9:34	29.	13:50
31	32.	34.	31.	38.	9:55	30.	0:24
MEAN	30.	31.	29.				
STANDARD DEVIATION	3.	4.	3.				

ZONE 10





ENVIRONMENTAL SUMMARY REPORT

SITE: G.E. MUSCLE SHOALS
MUSCLE SHOALS, ALABAMA

REPORT PERIOD: 81/ 7
SITE NUMBER: 111

LATITUDE: 34.41 DEG NORTH
LONGITUDE: 87.37 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 25 DEG

TIME ZONE: CENTRAL
ALTITUDE: 550 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1226.	N.A.	N.A.	328.	12:24	3260.	38.
2	1614.	N.A.	N.A.	319.	12:23	3261.	50.
3	1445.	N.A.	N.A.	325.	12:23	3261.	44.
4	1719.	N.A.	N.A.	331.	12:18	3262.	53.
5	712.	N.A.	N.A.	274.	11:13	3262.	22.
6	1489.	N.A.	N.A.	328.	11:45	3263.	46.
7	1666.	N.A.	N.A.	303.	12:18	3263.	51.
8	2093.	N.A.	N.A.	303.	12:13	3264.	64.
9	1772.	N.A.	N.A.	331.	11:50	3265.	54.
10	1641.	N.A.	N.A.	322.	11:29	3269.	50.
11	1622.	N.A.	N.A.	293.	11:13	3270.	50.
12	1876.	N.A.	N.A.	300.	11:53	3270.	57.
13	2087.	N.A.	N.A.	306.	11:48	3271.	64.
14	2130.	N.A.	N.A.	300.	11:29	3272.	65.
15	2064.	N.A.	N.A.	303.	12:11	3274.	63.
16	1775.	N.A.	N.A.	303.	11:16	3275.	54.
17	1519.	N.A.	N.A.	306.	11:39	3276.	46.
18	2013.	N.A.	N.A.	290.	11:54	3277.	61.
19	1938.	N.A.	N.A.	303.	13:15	3278.	59.
20	2066.	N.A.	N.A.	300.	12: 6	3282.	63.
21	1834.	N.A.	N.A.	325.	12:44	3283.	56.
22	2130.	N.A.	N.A.	315.	11: 2	3285.	65.
23	1472.	N.A.	N.A.	271.	11:31	3286.	45.
24	1704.	N.A.	N.A.	303.	11:38	3290.	52.
25	778.	N.A.	N.A.	221.	14:21	3291.	24.
26	2056.	N.A.	N.A.	287.	12: 2	3292.	62.
27	1942.	N.A.	N.A.	303.	12:39	3294.	59.
28	1568.	N.A.	N.A.	325.	11:53	3295.	48.
29	963.	N.A.	N.A.	312.	11:10	3296.	29.
30	2129.	N.A.	N.A.	334.	11:46	3297.	65.
31	1334.	N.A.	N.A.	284.	11:54	3301.	40.
MEAN	1690.	N.A.	N.A.			3277.	
STANDARD DEVIATION	386.	N.A.	N.A.			13.	

ENVIRONMENTAL SUMMARY REPORT

**SITE: G.E. MUSCLE SHOALS
MUSCLE SHOALS, ALABAMA**

**REPORT PERIOD: 81/ 7
SITE NUMBER: 111**

**LATITUDE: 34.41 DEG NORTH
LONGITUDE: 87.37 DEG WEST**

**AZIMUTH: 0 DEG
PYRANOMETER TILT: 25 DEG**

**TIME ZONE: CENTRAL
ALTITUDE: 550 FEET**

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	76.	81.	71.	94.	14:21	69.	18:15	N.A.
2	76.	81.	71.	92.	14:21	69.	1: 1	N.A.
3	77.	82.	72.	89.	15:51	69.	4:50	N.A.
4	79.	84.	75.	90.	15:30	69.	5: 0	N.A.
5	75.	76.	74.	88.	14:30	71.	9:21	N.A.
6	78.	82.	74.	91.	15:30	71.	1:10	N.A.
7	81.	87.	74.	94.	17:28	70.	4:34	N.A.
8	83.	90.	75.	99.	16:24	70.	4: 2	N.A.
9	86.	93.	77.	101.	15:57	72.	5: 5	N.A.
10	81.	89.	73.	100.	13: 0	70.	22: 9	N.A.
11	81.	86.	75.	99.	14:14	69.	0:49	N.A.
12	85.	92.	78.	98.	14:54	73.	4:17	N.A.
13	85.	91.	77.	97.	15: 5	73.	4:20	N.A.
14	85.	92.	78.	98.	14:36	75.	5: 0	N.A.
15	85.	92.	79.	97.	12:59	75.	3:50	N.A.
16	84.	89.	78.	97.	13:24	76.	4:58	N.A.
17	80.	86.	74.	98.	12:27	71.	23:38	N.A.
18	82.	88.	75.	96.	15:22	71.	0:37	N.A.
19	85.	92.	78.	99.	15:28	72.	4:42	N.A.
20	85.	92.	77.	97.	14: 8	67.	23:24	N.A.
21	79.	85.	72.	94.	16:28	67.	1:32	N.A.
22	82.	88.	74.	95.	16:54	69.	3:40	N.A.
23	80.	85.	74.	93.	12:14	68.	4:24	N.A.
24	81.	88.	73.	98.	14:29	70.	23:36	N.A.
25	75.	79.	72.	93.	16:35	68.	4:35	N.A.
26	83.	89.	76.	95.	16:18	70.	2:43	N.A.
27	83.	91.	75.	101.	16:12	71.	4: 2	N.A.
28	81.	86.	76.	94.	15:16	72.	1: 2	N.A.
29	76.	78.	73.	83.	12:57	66.	23:57	N.A.
30	75.	81.	68.	91.	14:53	64.	5: 1	N.A.
31	75.	81.	69.	91.	14:44	62.	3:27	N.A.
MEAN	81.	86.	74.					N.A.
STANDARD DEVIATION	3.6	4.7	2.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: HELIO THERMICS
GREENVILLE, SOUTH CAROLINA

REPORT PERIOD: 81/ 7
SITE NUMBER: 73

LATITUDE: 34.70 DEG NORTH AZIMUTH: 10 DEG TIME ZONE: EASTERN
LONGITUDE: 82.40 DEG WEST PYRANOMETER TILT: 51 DEG ALTITUDE: 980 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	661.	N.A.	N.A.	187.	14:32	2330.	28.
2	472.	N.A.	N.A.	190.	14:38	2333.	20.
3	652.	N.A.	N.A.	179.	13:34	2334.	28.
4	1474.	N.A.	N.A.	290.	14: 1	2338.	63.
5	1245.	N.A.	N.A.	275.	13:15	2342.	53.
6	1252.	N.A.	N.A.	284.	14:27	2349.	53.
7	909.	N.A.	N.A.	290.	13:48	2354.	39.
8	1455.	N.A.	N.A.	263.	12:12	2357.	62.
9	1484.	N.A.	N.A.	275.	13: 2	2362.	63.
10	1579.	N.A.	N.A.	269.	12:40	2368.	67.
11	1544.	N.A.	N.A.	258.	12:52	2374.	65.
12	1399.	N.A.	N.A.	243.	12:50	2378.	59.
13	1462.	N.A.	N.A.	258.	12:55	2384.	61.
14	*	N.A.	N.A.	*	*:*	2391.	*
15	*	N.A.	N.A.	*	*:*	2399.	*
16	*	N.A.	N.A.	*	*:*	2406.	*
17	*	N.A.	N.A.	*	*:*	2414.	*
18	*	N.A.	N.A.	*	*:*	2419.	*
19	*	N.A.	N.A.	*	*:*	2428.	*
20	*	N.A.	N.A.	*	*:*	2434.	*
21	*	N.A.	N.A.	*	*:*	2445.	*
22	*	N.A.	N.A.	*	*:*	2452.	*
23	*	N.A.	N.A.	*	*:*	2461.	*
24	*	N.A.	N.A.	*	*:*	2471.	*
25	*	N.A.	N.A.	*	*:*	2478.	*
26	*	N.A.	N.A.	*	*:*	2489.	*
27	*	N.A.	N.A.	*	*:*	2499.	*
28	*	N.A.	N.A.	*	*:*	2510.	*
29	*	N.A.	N.A.	*	*:*	2518.	*
30	*	N.A.	N.A.	*	*:*	2529.	*
31	*	N.A.	N.A.	*	*:*	2538.	*
MEAN	1199.	N.A.	N.A.			2416.	
STANDARD DEVIATION	388.	N.A.	N.A.			65.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HONEYWELL NEWNAN
NEWNAN, GEORGIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 115

LATITUDE: 33.00 DEG NORTH
LONGITUDE: 84.00 DEG WEST

AZIMUTH: 10 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: EASTERN
ALTITUDE: 500 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	*	N.A.	N.A.	*	*:*	3077.	*
2	*	N.A.	N.A.	*	*:*	3079.	*
3	*	N.A.	N.A.	*	*:*	3080.	*
4	*	N.A.	N.A.	*	*:*	3081.	*
5	*	N.A.	N.A.	*	*:*	3083.	*
6	*	N.A.	N.A.	*	*:*	3085.	*
7	*	N.A.	N.A.	*	*:*	3086.	*
8	*	N.A.	N.A.	*	*:*	3088.	*
9	*	N.A.	N.A.	*	*:*	3090.	*
10	*	N.A.	N.A.	*	*:*	3093.	*
11	*	N.A.	N.A.	*	*:*	3095.	*
12	*	N.A.	N.A.	*	*:*	3097.	*
13	*	N.A.	N.A.	*	*:*	3100.	*
14	*	N.A.	N.A.	*	*:*	3103.	*
15	*	N.A.	N.A.	*	*:*	3105.	*
16	2285.	N.A.	N.A.	289.	13:17	3108.	74.
17	1764.	N.A.	N.A.	295.	12:48	3114.	57.
18	1699.	N.A.	N.A.	289.	13: 1	3117.	55.
19	1618.	N.A.	N.A.	286.	12:31	3120.	52.
20	1562.	N.A.	N.A.	302.	12:45	3123.	50.
21	1902.	N.A.	N.A.	273.	12: 1	3127.	61.
22	1802.	N.A.	N.A.	286.	12:59	3130.	58.
23	1859.	N.A.	N.A.	273.	12:29	3133.	59.
24	1838.	N.A.	N.A.	276.	12:31	3137.	59.
25	1129.	N.A.	N.A.	302.	12: 3	3141.	36.
26	1573.	N.A.	N.A.	267.	13: 3	3144.	50.
27	809.	N.A.	N.A.	258.	14:21	3148.	26.
28	1819.	N.A.	N.A.	295.	12:10	3155.	58.
29	1320.	N.A.	N.A.	349.	12:24	3158.	42.
30	1145.	N.A.	N.A.	276.	13:47	3162.	36.
31	307.	N.A.	N.A.	104.	12: 4	3166.	10.
MEAN	1527.	N.A.	N.A.			3114.	
STANDARD DEVIATION	485.	N.A.	N.A.			28.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HONEYWELL NEWNAN
NEWNAN, GEORGIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 115

LATITUDE: 33.00 DEG NORTH AZIMUTH: 10 DEG
LONGITUDE: 84.00 DEG WEST PYRANOMETER TILT: 30 DEG TIME ZONE: EASTERN
ALTITUDE: 500 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	*	*	*	*	*:*	*	*:*	*
2	*	*	*	*	*:*	*	*:*	*
3	*	*	*	*	*:*	*	*:*	*
4	*	*	*	*	*:*	*	*:*	*
5	*	*	*	*	*:*	*	*:*	*
6	*	*	*	*	*:*	*	*:*	*
7	*	*	*	*	*:*	*	*:*	*
8	*	*	*	*	*:*	*	*:*	*
9	*	*	*	*	*:*	*	*:*	*
10	*	*	*	*	*:*	*	*:*	*
11	*	*	*	*	*:*	*	*:*	*
12	*	*	*	*	*:*	*	*:*	*
13	*	*	*	*	*:*	*	*:*	*
14	*	*	*	*	*:*	*	*:*	*
15	*	*	*	*	*:*	*	*:*	*
16	90.	93.	84.	97.	15:41	77.	23:55	71.
17	83.	88.	78.	96.	13:31	71.	5:41	73.
18	84.	88.	79.	100.	16:19	69.	4:54	77.
19	83.	88.	78.	103.	14: 7	69.	4:45	77.
20	83.	87.	78.	98.	14:31	71.	5: 1	85.
21	81.	85.	77.	92.	16:12	69.	5:43	84.
22	80.	85.	74.	94.	14:35	66.	6: 8	75.
23	80.	87.	73.	100.	17:22	61.	4:50	78.
24	84.	90.	77.	104.	15:49	66.	6: 2	79.
25	81.	85.	77.	97.	17:55	70.	3: 4	78.
26	79.	86.	72.	98.	13:46	67.	6: 0	81.
27	77.	81.	74.	94.	14:37	69.	5:54	74.
28	82.	88.	76.	97.	17:14	69.	5:46	77.
29	77.	83.	71.	94.	14:48	69.	5:33	78.
30	73.	76.	70.	86.	11: 2	64.	23:48	75.
31	66.	67.	65.	71.	11:59	63.	4:42	74.
MEAN	80.	85.	75.					77.
STANDARD DEVIATION	5.2	6.0	4.4					3.6

ENVIRONMENTAL SUMMARY REPORT

SITE: HONEYWELL OCMULGEE
OCMULGEE, GEORGIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 118

LATITUDE: 32.60 DEG NORTH
LONGITUDE: 83.50 DEG WEST

AZIMUTH: 39 DEG
PYRANOMETER TILT: 20 DEG

TIME ZONE: EASTERN
ALTITUDE: 463 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	INSOLATION	-----	
				BTU/HR/FT2	BTU/FT2	EXT INS	
				TIME		PERCENT	
				HR:MN			
1	1317.	N.A.	N.A.	282.	12:51	3416.	39.
2	845.	N.A.	N.A.	246.	11:45	3414.	25.
3	954.	N.A.	N.A.	216.	13: 5	3416.	28.
4	1509.	N.A.	N.A.	327.	13: 5	3414.	44.
5	1452.	N.A.	N.A.	318.	14:36	3413.	43.
6	1530.	N.A.	N.A.	331.	12:17	3412.	45.
7	1780.	N.A.	N.A.	347.	13:18	3413.	52.
8	1937.	N.A.	N.A.	324.	12:55	3411.	57.
9	1726.	N.A.	N.A.	295.	13: 8	3412.	51.
10	1627.	N.A.	N.A.	291.	11:41	3410.	48.
11	1874.	N.A.	N.A.	285.	13:21	3411.	55.
12	1455.	N.A.	N.A.	285.	12:31	3409.	43.
13	1735.	N.A.	N.A.	268.	13:10	3409.	51.
14	1800.	N.A.	N.A.	308.	13:20	3407.	53.
15	1747.	N.A.	N.A.	304.	13:27	3407.	51.
16	1903.	N.A.	N.A.	314.	12:50	3405.	56.
17	1886.	N.A.	N.A.	321.	13:44	3405.	55.
18	1665.	N.A.	N.A.	318.	13:11	3405.	49.
19	1940.	N.A.	N.A.	298.	13:23	3405.	57.
20	1206.	N.A.	N.A.	288.	12:58	3402.	35.
21	2242.	N.A.	N.A.	311.	12:58	3402.	66.
22	1931.	N.A.	N.A.	324.	13:41	3402.	57.
23	2087.	N.A.	N.A.	308.	13:14	3398.	61.
24	1929.	N.A.	N.A.	291.	13:48	3398.	57.
25	1450.	N.A.	N.A.	278.	14: 4	3397.	43.
26	1298.	N.A.	N.A.	308.	13:10	3396.	38.
27	1835.	N.A.	N.A.	318.	13:32	3393.	54.
28	1641.	N.A.	N.A.	327.	13:41	3391.	48.
29	1279.	N.A.	N.A.	311.	12:49	3390.	38.
30	1072.	N.A.	N.A.	304.	15:15	3386.	32.
31	296.	N.A.	N.A.	56.	13:54	3387.	9.
MEAN	1579.	N.A.	N.A.			3404.	
STANDARD DEVIATION	408.	N.A.	N.A.			9.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HONEYWELL OCMULGEE
OCMULGEE, GEORGIA

REPORT PERIOD: 81/ 7
SITE NUMBER: 118

LATITUDE: 32.60 DEG NORTH
LONGITUDE: 83.50 DEG WEST

AZIMUTH: 39 DEG
PYRANOMETER TILT: 20 DEG

TIME ZONE: EASTERN
ALTITUDE: 463 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	76.	81.	70.	92.	13:18	68.	5:11	83.
2	72.	73.	71.	83.	15:50	67.	6: 1	83.
3	76.	80.	72.	88.	13:10	69.	4:30	87.
4	79.	82.	75.	93.	14: 9	67.	4:29	81.
5	82.	87.	75.	99.	14:30	72.	23:56	88.
6	79.	86.	72.	101.	15:45	69.	5: 5	83.
7	82.	86.	78.	101.	14:17	68.	5:26	86.
8	86.	92.	80.	104.	15: 5	72.	5: 7	87.
9	87.	93.	80.	103.	13:46	75.	5:14	84.
10	87.	93.	80.	104.	11:52	73.	5:32	83.
11	88.	94.	82.	106.	14:41	73.	5:26	84.
12	85.	90.	81.	103.	13:14	75.	5:48	85.
13	88.	94.	82.	105.	15:30	72.	5:55	86.
14	89.	94.	82.	108.	13:58	74.	4:54	85.
15	90.	96.	83.	109.	14:46	74.	4:55	84.
16	90.	96.	84.	109.	13:33	75.	5:12	88.
17	90.	96.	83.	109.	13:55	74.	5:39	91.
18	84.	89.	79.	102.	13:59	73.	5:27	90.
19	85.	90.	79.	103.	15:59	71.	5:32	89.
20	81.	87.	74.	103.	14:23	71.	16:14	90.
21	87.	93.	80.	106.	15:17	72.	4:36	89.
22	85.	91.	79.	103.	14:34	69.	5:39	89.
23	85.	91.	78.	106.	15:54	67.	6: 7	86.
24	86.	92.	80.	105.	15:40	70.	6:12	89.
25	85.	89.	80.	102.	14:15	74.	5:59	88.
26	83.	88.	77.	102.	13: 4	73.	5:40	92.
27	86.	91.	80.	104.	13:43	71.	5:31	88.
28	87.	93.	80.	106.	15: 6	73.	5:43	87.
29	81.	87.	74.	104.	12:49	73.	21: 6	85.
30	75.	78.	71.	87.	11:47	67.	23:52	87.
31	69.	70.	68.	73.	17:44	65.	2:32	81.
MEAN	83.	88.	78.					86.
STANDARD DEVIATION	5.4	6.5	4.3					2.8

ENVIRONMENTAL SUMMARY REPORT

SITE: HYDE BROTHERS
CLARKSDALE, MISSISSIPPI

REPORT PERIOD: 81/ 7
SITE NUMBER: 237

LATITUDE: 34.10 DEG NORTH AZIMUTH: 7 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.40 DEG WEST PYRANOMETER TILT: 34 DEG ALTITUDE: 175 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	323.	N.A.	N.A.	114.	16:24	2976.	11.
2	1123.	N.A.	N.A.	279.	12:45	2977.	38.
3	1179.	N.A.	N.A.	272.	12:42	2979.	40.
4	1182.	N.A.	N.A.	287.	11:54	2981.	40.
5	824.	N.A.	N.A.	235.	11:51	2983.	28.
6	1066.	N.A.	N.A.	294.	12:47	2985.	36.
7	1449.	N.A.	N.A.	298.	12: 9	2987.	48.
8	1508.	N.A.	N.A.	302.	11:51	2990.	50.
9	1696.	N.A.	N.A.	287.	12: 4	2992.	57.
10	1794.	N.A.	N.A.	290.	12:19	2995.	60.
11	1799.	N.A.	N.A.	279.	13:27	2998.	60.
12	1760.	N.A.	N.A.	287.	12:35	3001.	59.
13	1523.	N.A.	N.A.	279.	12: 3	3005.	51.
14	1668.	N.A.	N.A.	279.	11:21	3008.	55.
15	1811.	N.A.	N.A.	283.	12: 7	3012.	60.
16	1991.	N.A.	N.A.	290.	12:11	3015.	66.
17	1758.	N.A.	N.A.	287.	12: 2	3019.	58.
18	1695.	N.A.	N.A.	272.	11:37	3023.	56.
19	1793.	N.A.	N.A.	279.	12: 8	3027.	59.
20	1956.	N.A.	N.A.	302.	12:45	3032.	65.
21	1604.	N.A.	N.A.	290.	12:17	3036.	53.
22	1477.	N.A.	N.A.	287.	12:51	3040.	49.
23	1792.	N.A.	N.A.	279.	13:17	3045.	59.
24	1675.	N.A.	N.A.	279.	11:18	3050.	55.
25	1619.	N.A.	N.A.	250.	11:51	3054.	53.
26	1887.	N.A.	N.A.	287.	12:43	3059.	62.
27	1772.	N.A.	N.A.	279.	11:44	3064.	58.
28	1136.	N.A.	N.A.	261.	11:18	3069.	37.
29	543.	N.A.	N.A.	177.	13:18	3074.	18.
30	1836.	N.A.	N.A.	287.	11:14	3079.	60.
31	1847.	N.A.	N.A.	287.	12:30	3084.	60.
MEAN	1519.	N.A.	N.A.			3021.	
STANDARD DEVIATION	411.	N.A.	N.A.			34.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HYDE BROTHERS
CLARKSDALE, MISSISSIPPI

REPORT PERIOD: 81/ 7
SITE NUMBER: 237

LATITUDE: 34.10 DEG NORTH AZIMUTH: 7 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.40 DEG WEST PYRANOMETER TILT: 34 DEG ALTITUDE: 175 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	75.	75.	74.	80.	16:40	72.	0:13	80.
2	78.	81.	74.	89.	15:30	71.	2:53	88.
3	78.	82.	75.	89.	14:50	70.	5: 7	92.
4	79.	84.	74.	91.	14:12	72.	2: 2	84.
5	77.	79.	75.	85.	13:43	71.	5: 3	82.
6	79.	81.	77.	86.	14:28	73.	0: 4	85.
7	81.	85.	76.	92.	13:40	73.	3:59	93.
8	84.	90.	78.	96.	11:56	73.	4:49	84.
9	85.	92.	78.	97.	13:34	75.	4: 9	84.
10	85.	93.	77.	99.	13:28	73.	1:44	*
11	84.	90.	78.	97.	13:32	72.	4:55	*
12	85.	91.	79.	95.	13:39	74.	3:51	*
13	84.	89.	81.	95.	11:52	76.	2:16	*
14	87.	93.	81.	98.	12: 4	75.	5: 8	*
15	87.	93.	81.	97.	15:25	75.	4:45	*
16	87.	93.	81.	99.	13:36	75.	4:11	*
17	86.	92.	79.	99.	11:36	73.	4:24	107.
18	87.	94.	80.	99.	10:59	73.	4:19	111.
19	88.	93.	82.	98.	11: 9	76.	5:13	*
20	87.	92.	82.	98.	15: 4	77.	5: 6	*
21	80.	82.	77.	92.	14:46	68.	7:24	95.
22	85.	91.	79.	96.	12:30	75.	4:46	*
23	86.	91.	81.	97.	13:33	75.	5: 1	*
24	88.	95.	81.	101.	13:48	77.	5:21	*
25	84.	91.	76.	99.	13: 6	72.	19:19	*
26	83.	89.	78.	95.	12:38	70.	3:57	*
27	85.	90.	81.	95.	12: 0	76.	2:46	93.
28	80.	85.	75.	90.	11:18	73.	23:58	94.
29	74.	75.	72.	80.	13:13	66.	23:46	87.
30	73.	78.	68.	84.	15:19	62.	4:23	89.
31	76.	82.	71.	88.	13:45	64.	3:10	105.
MEAN	82.	87.	77.					91.
STANDARD DEVIATION	4.5	5.9	3.5					9.0

ENVIRONMENTAL SUMMARY REPORT

SITE: RHRU CLEMSON
CLEMSON, SOUTH CAROLINA

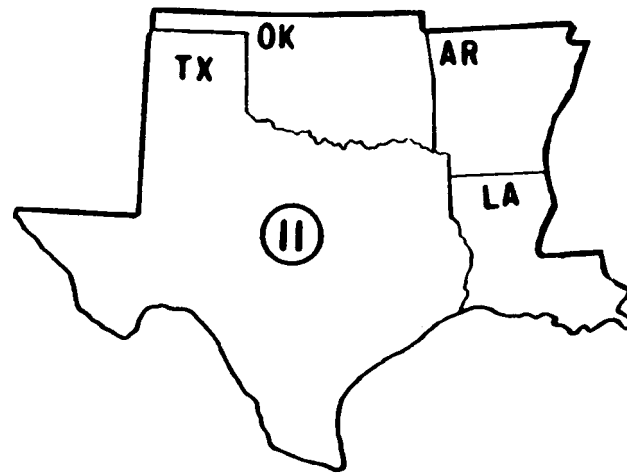
REPORT PERIOD: 81/ 7
SITE NUMBER: 216

LATITUDE: 34.54 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 83.13 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 937 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	69.	71.	68.	77.	14: 0	65.	4:34	81.
2	68.	71.	67.	82.	15:18	63.	2:25	79.
3	71.	75.	68.	81.	14:18	65.	23: 1	78.
4	74.	80.	69.	87.	16:32	61.	4:43	79.
5	74.	79.	70.	89.	14:19	66.	2:45	83.
6	77.	82.	74.	88.	13:52	70.	2:30	80.
7	79.	84.	76.	93.	16: 4	69.	4:38	81.
8	83.	90.	77.	101.	15:27	69.	4:36	83.
9	85.	92.	79.	99.	15: 4	70.	5:39	85.
10	85.	93.	79.	102.	17: 3	70.	5:30	82.
11	83.	93.	74.	100.	14:15	71.	18:38	85.
12	79.	86.	73.	99.	14:24	70.	2:54	85.
13	84.	90.	78.	98.	15:18	70.	5:15	83.
14	85.	92.	79.	101.	14:11	69.	5:18	81.
15	84.	92.	78.	103.	14:47	72.	4:55	85.
16	82.	89.	77.	101.	15:30	72.	5:28	81.
17	84.	92.	78.	104.	15:29	69.	6: 4	84.
18	81.	84.	79.	94.	15:31	74.	8:35	84.
19	80.	86.	75.	99.	14:45	72.	22:39	82.
20	82.	87.	77.	96.	16:31	70.	5:41	85.
21	83.	90.	78.	98.	14:52	71.	2: 4	87.
22	82.	92.	75.	101.	15:35	65.	5: 0	85.
23	83.	89.	77.	102.	15:42	69.	5:39	87.
24	81.	87.	77.	98.	14: 4	70.	23:54	87.
25	80.	86.	75.	101.	16:42	68.	1:41	85.
26	80.	87.	74.	99.	14:35	69.	5:46	83.
27	82.	90.	75.	103.	15:44	69.	4:27	89.
28	83.	91.	77.	99.	15:18	70.	5:31	88.
29	81.	87.	76.	95.	13:46	72.	23:53	87.
30	68.	69.	68.	74.	2:12	64.	6:12	83.
31	70.	74.	66.	79.	10:37	63.	21:49	83.
MEAN	79.	85.	75.					83.
STANDARD DEVIATION	5.3	7.1	4.1					2.8

ZONE 11





ENVIRONMENTAL SUMMARY REPORT

SITE: FIRST MANUFACTURED HOMES #09
LUBBOCK, TEXAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 236

LATITUDE: 33.50 DEG NORTH
LONGITUDE: 101.80 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: CENTRAL
ALTITUDE: 3250 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1515.	N.A.	N.A.	246.	12:24	2515.	60.
2	1406.	N.A.	N.A.	258.	12:32	2518.	56.
3	660.	N.A.	N.A.	234.	11:29	2521.	26.
4	1045.	N.A.	N.A.	252.	12:38	2524.	41.
5	1537.	N.A.	N.A.	228.	14: 2	2528.	61.
6	1518.	N.A.	N.A.	249.	12:16	2532.	60.
7	1351.	N.A.	N.A.	261.	13:25	2536.	53.
8	1418.	N.A.	N.A.	261.	12:38	2541.	56.
9	1393.	N.A.	N.A.	261.	13:24	2546.	55.
10	1296.	N.A.	N.A.	264.	12:22	2548.	51.
11	1597.	N.A.	N.A.	234.	12:37	2553.	63.
12	1567.	N.A.	N.A.	240.	13:16	2559.	61.
13	1598.	N.A.	N.A.	231.	12:28	2565.	62.
14	1593.	N.A.	N.A.	237.	12:50	2568.	62.
15	1164.	N.A.	N.A.	282.	13: 5	2575.	45.
16	1284.	N.A.	N.A.	267.	11:47	2581.	50.
17	1381.	N.A.	N.A.	246.	12:47	2588.	53.
18	1544.	N.A.	N.A.	228.	12:43	2595.	60.
19	1517.	N.A.	N.A.	234.	12: 0	2603.	58.
20	1540.	N.A.	N.A.	231.	13:20	2610.	59.
21	1649.	N.A.	N.A.	234.	12:22	2616.	63.
22	1669.	N.A.	N.A.	240.	12:21	2624.	64.
23	1663.	N.A.	N.A.	237.	12:17	2632.	63.
24	1665.	N.A.	N.A.	240.	12:28	2640.	63.
25	1641.	N.A.	N.A.	240.	12:23	2649.	62.
26	1475.	N.A.	N.A.	276.	12:52	2658.	56.
27	824.	N.A.	N.A.	213.	13:45	2667.	31.
28	405.	N.A.	N.A.	144.	13:58	2674.	15.
29	1416.	N.A.	N.A.	288.	11:41	2683.	53.
30	1580.	N.A.	N.A.	270.	13: 1	2690.	59.
31	1608.	N.A.	N.A.	237.	12:22	2700.	60.
MEAN	1404.	N.A.	N.A.			2592.	
STANDARD DEVIATION	302.	N.A.	N.A.			57.	

ENVIRONMENTAL SUMMARY REPORT

SITE: GSA
BASTROP, TEXAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 47

LATITUDE: 30.10 DEG NORTH AZIMUTH: 30 DEG TIME ZONE: CENTRAL
LONGITUDE: 97.30 DEG WEST PYRANOMETER TILT: 25 DEG ALTITUDE: 700 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE	TIME		
				BTU/HR/FT2	HR:MN		
1	1462.	N.A.	N.A.	304.	12:32	3213.	45.
2	1600.	N.A.	N.A.	311.	12:37	3213.	50.
3	*	N.A.	N.A.	*	*:*	3216.	*
4	670.	N.A.	N.A.	129.	17:18	3216.	21.
5	179.	N.A.	N.A.	56.	16:46	3215.	6.
6	*	N.A.	N.A.	*	*:*	3216.	*
7	*	N.A.	N.A.	*	*:*	3215.	*
8	*	N.A.	N.A.	*	*:*	3218.	*
9	*	N.A.	N.A.	*	*:*	3221.	*
10	2090.	N.A.	N.A.	294.	12:28	3221.	65.
11	1926.	N.A.	N.A.	291.	13:14	3223.	60.
12	*	N.A.	N.A.	*	*:*	3223.	*
13	*	N.A.	N.A.	*	*:*	3223.	*
14	1879.	N.A.	N.A.	317.	13:45	3226.	58.
15	1503.	N.A.	N.A.	321.	13:16	3226.	47.
16	2465.	N.A.	N.A.	297.	12:51	3229.	76.
17	2013.	N.A.	N.A.	314.	12:50	3231.	62.
18	1958.	N.A.	N.A.	327.	12:43	3231.	61.
19	2037.	N.A.	N.A.	324.	13:32	3234.	63.
20	2068.	N.A.	N.A.	297.	13: 0	3233.	64.
21	2108.	N.A.	N.A.	321.	12:35	3236.	65.
22	2098.	N.A.	N.A.	311.	13:20	3238.	65.
23	2058.	N.A.	N.A.	291.	13:33	3238.	64.
24	1949.	N.A.	N.A.	291.	13:11	3241.	60.
25	1894.	N.A.	N.A.	327.	13:12	3243.	58.
26	1531.	N.A.	N.A.	327.	13: 7	3245.	47.
27	1554.	N.A.	N.A.	307.	11:42	3245.	48.
28	2050.	N.A.	N.A.	321.	12:47	3247.	63.
29	1871.	N.A.	N.A.	334.	13:24	3249.	58.
30	1951.	N.A.	N.A.	321.	13: 2	3252.	60.
31	1997.	N.A.	N.A.	327.	13: 3	3251.	61.
MEAN	1788.	N.A.	N.A.			3230.	
STANDARD DEVIATION	486.	N.A.	N.A.			12.	

ENVIRONMENTAL SUMMARY REPORT

SITE: GSA
BASTROP, TEXAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 47

LATITUDE: 30.10 DEG NORTH AZIMUTH: 30 DEG TIME_ZONE: CENTRAL
LONGITUDE: 97.30 DEG WEST PYRANOMETER TILT: 25 DEG ALTITUDE: 700 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	81.	85.	77.	95.	13:41	72.	5:20	N.A.
2	83.	87.	75.	101.	14:13	73.	3:49	N.A.
3	79.	*	79.	80.	21:55	78.	23: 5	N.A.
4	80.	82.	78.	87.	17:18	75.	5:23	N.A.
5	72.	72.	73.	79.	9: 2	68.	12:35	N.A.
6	69.	80.	68.	85.	15: 5	67.	3:53	N.A.
7	78.	80.	71.	84.	12:46	71.	4:19	N.A.
8	*	*	*	*	*:*	*	*:*	N.A.
9	77.	79.	77.	81.	18: 2	74.	23:48	N.A.
10	82.	88.	73.	100.	15:24	67.	21:46	N.A.
11	83.	89.	77.	101.	15: 6	69.	1:19	N.A.
12	74.	74.	74.	79.	7:16	72.	5:30	N.A.
13	81.	86.	77.	87.	9:25	77.	20:57	N.A.
14	83.	87.	79.	97.	15:37	73.	4:47	N.A.
15	82.	86.	79.	95.	13:32	73.	4:52	N.A.
16	84.	91.	79.	98.	14:22	70.	4:14	N.A.
17	84.	88.	80.	97.	16: 2	73.	5:22	N.A.
18	84.	88.	80.	97.	16:22	72.	5:31	N.A.
19	84.	88.	81.	99.	16:34	73.	4:33	N.A.
20	84.	88.	80.	98.	14:36	73.	4:55	N.A.
21	85.	89.	80.	100.	15:42	72.	5: 2	N.A.
22	85.	88.	81.	98.	15:23	73.	4:54	N.A.
23	85.	89.	81.	100.	14:16	75.	5:49	N.A.
24	85.	90.	81.	104.	14:52	70.	5:48	N.A.
25	85.	91.	79.	102.	14:38	74.	5:28	N.A.
26	82.	88.	77.	99.	13:55	73.	5:44	N.A.
27	82.	85.	79.	95.	14: 6	73.	8:14	N.A.
28	84.	89.	80.	97.	15: 5	74.	5: 8	N.A.
29	84.	88.	80.	98.	16:30	72.	5:40	N.A.
30	84.	88.	81.	101.	14:44	72.	4:57	N.A.
31	85.	89.	81.	101.	14: 2	72.	5: 3	N.A.
MEAN	82.	86.	78.					N.A.
STANDARD DEVIATION	4.1	4.8	3.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: HURST - EULESS
BEDFORD, TEXAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 233

LATITUDE: 32.50 DEG NORTH
LONGITUDE: 96.80 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 9 DEG

TIME ZONE: CENTRAL
ALTITUDE: 0 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2032.	N.A.	N.A.	300.	13: 9	3566.	57.
2	2048.	N.A.	N.A.	315.	11:45	3564.	57.
3	1377.	N.A.	N.A.	262.	14:35	3565.	39.
4	1597.	N.A.	N.A.	318.	12:40	3563.	45.
5	1683.	N.A.	N.A.	336.	12:54	3561.	47.
6	1852.	N.A.	N.A.	303.	12:43	3560.	52.
7	2137.	N.A.	N.A.	354.	13:42	3557.	60.
8	1981.	N.A.	N.A.	339.	11:49	3555.	56.
9	2070.	N.A.	N.A.	342.	12:53	3555.	58.
10	2101.	N.A.	N.A.	312.	12:12	3552.	59.
11	2190.	N.A.	N.A.	306.	12:27	3552.	62.
12	1972.	N.A.	N.A.	297.	13:15	3549.	56.
13	1943.	N.A.	N.A.	315.	12:59	3547.	55.
14	2230.	N.A.	N.A.	303.	12:21	3544.	63.
15	2377.	N.A.	N.A.	294.	12:17	3543.	67.
16	2275.	N.A.	N.A.	288.	12:31	3539.	64.
17	2309.	N.A.	N.A.	288.	12:11	3536.	65.
18	2337.	N.A.	N.A.	294.	12:42	3532.	66.
19	2198.	N.A.	N.A.	306.	12:37	3531.	62.
20	2266.	N.A.	N.A.	285.	12:16	3530.	64.
21	2306.	N.A.	N.A.	288.	12:53	3526.	65.
22	2286.	N.A.	N.A.	288.	12:46	3522.	65.
23	2204.	N.A.	N.A.	288.	12:28	3520.	63.
24	2256.	N.A.	N.A.	285.	12:34	3515.	64.
25	2007.	N.A.	N.A.	312.	12:27	3511.	57.
26	2250.	N.A.	N.A.	315.	12:42	3509.	64.
27	1337.	N.A.	N.A.	333.	12:42	3506.	38.
28	1277.	N.A.	N.A.	351.	12:44	3501.	36.
29	2175.	N.A.	N.A.	306.	12:21	3496.	62.
30	2326.	N.A.	N.A.	291.	12: 3	3493.	67.
31	2103.	N.A.	N.A.	300.	12:29	3487.	60.
MEAN	2048.	N.A.	N.A.			3535.	
STANDARD DEVIATION	301.	N.A.	N.A.			24.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HURST - EULESS
BEDFORD, TEXAS

REPORT PERIOD: 81/ 7
SITE NUMBER: 233

LATITUDE: 32.50 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 96.80 DEG WEST PYRANOMETER TILT: 9 DEG ALTITUDE: 0 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE	TIME HR:MN	MIN TEMPERATURE VALUE	TIME HR:MN	INLET WATER TEMPERATURE
1	86.	90.	82.	99.	14:34	75.	5:25	83.
2	87.	92.	82.	101.	13:43	78.	5:21	84.
3	81.	85.	75.	95.	14:30	72.	20:46	84.
4	80.	83.	76.	93.	14: 0	74.	6: 0	84.
5	82.	86.	78.	95.	12: 6	73.	3:58	83.
6	82.	85.	77.	93.	12:11	72.	5:36	82.
7	81.	84.	78.	91.	13:58	73.	5:42	82.
8	85.	88.	81.	94.	13:51	77.	2:50	83.
9	86.	89.	81.	98.	14:13	76.	5:14	82.
10	88.	93.	82.	101.	14:15	75.	5:32	83.
11	89.	93.	83.	100.	11:39	76.	5:36	83.
12	87.	91.	82.	98.	11:55	78.	5:15	84.
13	86.	90.	82.	96.	14:14	76.	5:47	84.
14	87.	91.	83.	100.	12:10	76.	5:25	86.
15	88.	92.	83.	102.	14: 9	77.	5:30	87.
16	88.	93.	82.	102.	14: 2	77.	5: 8	87.
17	88.	92.	83.	100.	13:37	77.	5:26	85.
18	88.	92.	84.	99.	14:28	78.	5:40	85.
19	88.	92.	84.	101.	14:13	78.	5:35	85.
20	90.	94.	85.	102.	14:51	78.	5:20	85.
21	90.	95.	85.	101.	15:17	78.	5:41	86.
22	90.	94.	85.	101.	11:58	77.	5:22	86.
23	90.	94.	85.	104.	11:56	78.	4:38	87.
24	91.	95.	85.	105.	13:28	77.	5:38	87.
25	89.	92.	86.	98.	15:39	79.	5:42	87.
26	87.	91.	82.	99.	14:34	78.	5:42	87.
27	85.	87.	82.	96.	13:25	79.	1:57	87.
28	84.	87.	80.	101.	12:12	77.	5:32	87.
29	89.	94.	83.	105.	14:40	75.	5:19	87.
30	89.	92.	85.	99.	13:55	78.	5:50	86.
31	89.	92.	85.	98.	15: 9	78.	5:32	87.
MEAN	87.	91.	82.					85.
STANDARD DEVIATION	3.0	3.4	2.8					1.7

ENVIRONMENTAL SUMMARY REPORT

SITE: LOYOLA UNIVERSITY
NEW ORLEANS, LOUISIANA

REPORT PERIOD: 81/ 7
SITE NUMBER: 95

LATITUDE: 30.00 DEG NORTH
LONGITUDE: 90.01 DEG WEST

AZIMUTH: 16 DEG
PYRANOMETER TILT: 38 DEG

TIME ZONE: CENTRAL
ALTITUDE: -2 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	936.	N.A.	N.A.	234.	14:17	2708.	35.
2	288.	N.A.	N.A.	71.	12:20	2711.	11.
3	1253.	N.A.	N.A.	302.	12:43	2713.	46.
4	1082.	N.A.	N.A.	287.	12:26	2716.	40.
5	945.	N.A.	N.A.	284.	11:18	2719.	35.
6	1671.	N.A.	N.A.	296.	13:31	2723.	61.
7	1516.	N.A.	N.A.	302.	12:22	2726.	56.
8	1187.	N.A.	N.A.	287.	13:50	2730.	43.
9	1674.	N.A.	N.A.	275.	12:32	2734.	61.
10	1502.	N.A.	N.A.	271.	12:59	2738.	55.
11	634.	N.A.	N.A.	247.	12:54	2740.	23.
12	1552.	N.A.	N.A.	293.	12:17	2745.	57.
13	1763.	N.A.	N.A.	278.	12:54	2749.	64.
14	1907.	N.A.	N.A.	284.	12:28	2755.	69.
15	1522.	N.A.	N.A.	275.	12:10	2760.	55.
16	1711.	N.A.	N.A.	278.	12:41	2765.	62.
17	1302.	N.A.	N.A.	278.	13: 3	2771.	47.
18	1677.	N.A.	N.A.	293.	12:47	2777.	60.
19	1516.	N.A.	N.A.	284.	12:30	2783.	54.
20	1400.	N.A.	N.A.	281.	12:46	2789.	50.
21	1611.	N.A.	N.A.	271.	13: 7	2796.	58.
22	1742.	N.A.	N.A.	281.	12:52	2803.	62.
23	1456.	N.A.	N.A.	271.	12:42	2810.	52.
24	1902.	N.A.	N.A.	296.	12:44	2814.	68.
25	1275.	N.A.	N.A.	305.	12:35	2821.	45.
26	1460.	N.A.	N.A.	308.	12:38	2828.	52.
27	1140.	N.A.	N.A.	302.	13:31	2836.	40.
28	1260.	N.A.	N.A.	296.	11:28	2844.	44.
29	1611.	N.A.	N.A.	271.	12:43	2849.	57.
30	1818.	N.A.	N.A.	281.	13: 2	2859.	64.
31	1769.	N.A.	N.A.	281.	11:56	2868.	62.
MEAN	1422.	N.A.	N.A.			2774.	
STANDARD DEVIATION	368.	N.A.	N.A.			49.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LOYOLA UNIVERSITY
NEW ORLEANS, LOUISIANA

REPORT PERIOD: 81/ 7
SITE NUMBER: 95

LATITUDE: 30.00 DEG NORTH
LONGITUDE: 90.01 DEG WEST

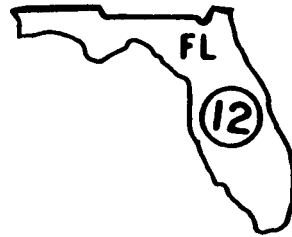
AZIMUTH: 16 DEG
PYRANOMETER TILT: 38 DEG

TIME ZONE: CENTRAL
ALTITUDE: -2 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	81.	85.	77.	92.	14:17	75.	4:14	88.
2	75.	74.	76.	78.	18:3	68.	10:28	88.
3	80.	82.	78.	90.	13:46	72.	3:23	88.
4	80.	82.	77.	89.	10:40	75.	14:50	88.
5	80.	82.	78.	88.	10:35	72.	22:51	88.
6	82.	86.	79.	91.	13:52	73.	0:0	88.
7	82.	87.	78.	92.	13:52	74.	18:54	88.
8	85.	88.	82.	95.	15:15	78.	4:25	88.
9	86.	90.	82.	98.	15:1	74.	23:29	88.
10	84.	90.	78.	98.	12:27	74.	0:43	89.
11	80.	82.	78.	88.	10:52	74.	7:40	89.
12	84.	88.	81.	93.	12:11	76.	1:53	89.
13	86.	90.	83.	98.	16:16	77.	3:55	89.
14	86.	90.	83.	100.	16:12	79.	4:23	90.
15	86.	90.	83.	97.	14:7	79.	5:14	91.
16	87.	91.	84.	97.	14:27	80.	5:29	91.
17	87.	90.	84.	97.	16:15	80.	5:24	92.
18	86.	90.	82.	98.	14:45	80.	2:13	92.
19	87.	91.	84.	99.	14:38	81.	5:27	93.
20	87.	91.	83.	98.	14:6	80.	1:50	93.
21	88.	90.	85.	97.	13:50	81.	5:23	93.
22	88.	94.	82.	100.	14:12	80.	5:8	93.
23	88.	93.	84.	102.	14:40	79.	4:10	94.
24	88.	91.	85.	97.	14:47	81.	5:21	94.
25	86.	89.	84.	95.	12:35	81.	4:29	94.
26	86.	90.	83.	95.	11:34	80.	5:17	94.
27	83.	87.	80.	96.	12:59	73.	15:45	94.
28	85.	89.	81.	97.	15:24	78.	4:4	94.
29	84.	90.	79.	97.	14:19	70.	21:29	94.
30	82.	87.	77.	96.	15:10	73.	0:4	94.
31	85.	91.	80.	97.	17:0	76.	5:43	94.
MEAN	84.	88.	81.					91.
STANDARD DEVIATION	3.2	4.1	2.7					2.6

ZONE 12



NO VALID DATA



ENVIRONMENTAL SUMMARY REPORT

SITE: HONOLULU RAMADA
HONOLULU, HAWAII

REPORT PERIOD: 81/ 7
SITE NUMBER: 192

LATITUDE: 24.00 DEG NORTH
LONGITUDE: 157.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 0 DEG

TIME ZONE: HAWAII
ALTITUDE: 32 FEET

DAY	INSOLATION						
	TOTAL HORIZONTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM INSOLATION VALUE BTU/HR/FT2	TOTAL INSOLATION TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	1884.	N.A.	N.A.	355.	12: 2	3574.	53.
2	1871.	N.A.	N.A.	359.	12: 4	3575.	52.
3	1955.	N.A.	N.A.	335.	12:49	3573.	55.
4	2111.	N.A.	N.A.	332.	12:49	3571.	59.
5	1674.	N.A.	N.A.	365.	12: 3	3569.	47.
6	2305.	N.A.	N.A.	318.	12:19	3567.	65.
7	1560.	N.A.	N.A.	362.	12:15	3564.	44.
8	1746.	N.A.	N.A.	372.	12:58	3565.	49.
9	1696.	N.A.	N.A.	345.	11: 8	3562.	48.
10	1884.	N.A.	N.A.	332.	11:40	3560.	53.
11	2210.	N.A.	N.A.	332.	12:44	3557.	62.
12	2282.	N.A.	N.A.	315.	12:26	3556.	64.
13	2141.	N.A.	N.A.	318.	11:49	3553.	60.
14	1620.	N.A.	N.A.	396.	12:16	3553.	46.
15	1845.	N.A.	N.A.	335.	12:27	3549.	52.
16	1379.	N.A.	N.A.	369.	12: 9	3546.	39.
17	*	N.A.	N.A.	*	*:*	3542.	*
18	*	N.A.	N.A.	*	*:*	3541.	*
19	1995.	N.A.	N.A.	342.	10:49	3537.	56.
20	2157.	N.A.	N.A.	349.	12:41	3533.	61.
21	2219.	N.A.	N.A.	312.	12:12	3531.	63.
22	1761.	N.A.	N.A.	312.	11:17	3529.	50.
23	2175.	N.A.	N.A.	352.	11:40	3524.	62.
24	2226.	N.A.	N.A.	339.	12: 3	3520.	63.
25	2181.	N.A.	N.A.	355.	11:28	3518.	62.
26	2206.	N.A.	N.A.	328.	11:39	3512.	63.
27	2128.	N.A.	N.A.	325.	13:28	3507.	61.
28	1441.	N.A.	N.A.	345.	13:11	3505.	41.
29	2210.	N.A.	N.A.	332.	12:33	3502.	63.
30	2088.	N.A.	N.A.	325.	11:39	3496.	60.
31	2230.	N.A.	N.A.	342.	13: 7	3490.	64.
MEAN	1972.	N.A.	N.A.			3541.	
STANDARD DEVIATION	267.	N.A.	N.A.			25.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HONOLULU RAMADA
HONOLULU, HAWAII

REPORT PERIOD: 81/ 7
SITE NUMBER: 192

LATITUDE: 24.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 157.00 DEG WEST PYRANOMETER TILT: 0 DEG
TIME ZONE: HAWAII
ALTITUDE: 32 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	79.	82.	75.	89.	14:50	72.	5:54	71.
2	79.	82.	74.	88.	14:45	71.	4:15	71.
3	79.	83.	74.	89.	14:41	71.	4:37	71.
4	80.	84.	74.	91.	13:32	71.	2:36	71.
5	79.	82.	75.	90.	14:59	70.	6: 0	71.
6	81.	85.	76.	90.	13:50	74.	5:18	71.
7	80.	83.	76.	89.	13:14	73.	5:39	71.
8	81.	84.	77.	90.	13:20	74.	3:33	71.
9	80.	82.	77.	89.	15:24	74.	2: 4	71.
10	81.	84.	77.	90.	14: 1	73.	7:46	71.
11	81.	84.	77.	90.	14:47	73.	2:58	71.
12	81.	85.	76.	90.	14:39	74.	4:21	71.
13	80.	84.	76.	90.	14: 3	74.	3: 6	72.
14	78.	80.	75.	87.	12:16	70.	5:58	72.
15	78.	81.	73.	88.	14:43	70.	2: 3	71.
16	77.	79.	73.	86.	12: 9	69.	4:51	71.
17	77.	79.	72.	88.	13:16	*	16:56	70.
18	*	*	*	*	*:*	*	*:*	*
19	80.	81.	77.	87.	9:24	71.	4:51	71.
20	81.	85.	75.	90.	13:40	74.	23:56	72.
21	81.	85.	77.	90.	12: 2	73.	0: 2	71.
22	81.	84.	78.	89.	11:22	76.	3:38	71.
23	81.	84.	76.	90.	11:40	73.	4:44	71.
24	81.	85.	76.	91.	14:29	74.	5:33	71.
25	82.	86.	78.	91.	13:57	75.	1:20	71.
26	82.	85.	78.	90.	14: 3	76.	4:22	71.
27	82.	86.	78.	90.	13:28	75.	22:48	71.
28	80.	83.	77.	88.	16:33	75.	2:48	71.
29	82.	85.	77.	90.	15:23	75.	5: 0	71.
30	82.	85.	77.	91.	13:59	75.	3:29	71.
31	82.	86.	78.	91.	12:56	75.	5:49	71.
MEAN	80.	84.	76.					71.
STANDARD DEVIATION	1.6	2.0	1.6					0.3

ENVIRONMENTAL SUMMARY REPORT

SITE: HONOLULU RAMADA
HONOLULU, HAWAII

REPORT PERIOD: 81/ 7
SITE NUMBER: 192

LATITUDE: 24.00 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: HAWAII
LONGITUDE: 157.00 DEG WEST PYRANOMETER TILT: 0 DEG ALTITUDE: 32 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	73.	4.	75.	4.	16.	47.	12:24
2	58.	4.	59.	5.	18.	59.	16:53
3	61.	3.	59.	4.	20.	49.	17:32
4	67.	4.	64.	5.	18.	44.	16:39
5	115.	3.	137.	4.	16.	148.	11:52
6	75.	3.	70.	3.	18.	50.	16:46
7	68.	4.	62.	4.	16.	29.	12:47
8	73.	3.	72.	4.	17.	56.	23: 3
9	79.	3.	75.	4.	15.	42.	11:24
10	73.	4.	71.	4.	22.	46.	15:11
11	71.	4.	68.	5.	25.	72.	15:56
12	76.	4.	73.	4.	19.	34.	15:59
13	71.	4.	65.	5.	16.	58.	12:43
14	65.	4.	62.	5.	23.	49.	16:16
15	69.	4.	67.	5.	23.	51.	13:45
16	64.	3.	70.	3.	14.	69.	13: 6
17	337.	2.	329.	3.	*35.	309.	14:21
18	*	*	*	*	*	*	*:*
19	136.	5.	154.	6.	19.	156.	14:38
20	75.	3.	70.	4.	14.	61.	15:14
21	83.	4.	82.	4.	21.	64.	17:30
22	64.	5.	68.	5.	23.	68.	1: 9
23	67.	5.	62.	4.	20.	64.	1:16
24	72.	4.	74.	4.	19.	50.	12:56
25	79.	3.	77.	4.	15.	43.	13:30
26	68.	5.	65.	6.	25.	50.	16:54
27	77.	4.	70.	5.	21.	49.	15:20
28	77.	3.	76.	4.	17.	63.	10:11
29	78.	3.	76.	4.	18.	57.	17: 5
30	88.	3.	90.	3.	16.	57.	10: 9
31	77.	3.	77.	3.	18.	84.	20:13
MEAN	84.	4.	84.	4.			
STANDARD DEVIATION	50.1	0.7	50.6	0.8			

ENVIRONMENTAL SUMMARY REPORT

SITE: HONOLULU RAMADA
HONOLULU, HAWAII

REPORT PERIOD: 81/ 7
SITE NUMBER: 192

LATITUDE: 24.00 DEG NORTH
LONGITUDE: 157.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 0 DEG

TIME ZONE: HAWAII
ALTITUDE: 32 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	14	10	0	0	0	0	0	0	0
2	12	10	2	0	0	0	0	0	0
3	17	6	1	0	0	0	0	0	0
4	17	4	3	0	0	0	0	0	0
5	17	6	1	0	0	0	0	0	0
6	22	2	0	0	0	0	0	0	0
7	15	9	0	0	0	0	0	0	0
8	15	9	0	0	0	0	0	0	0
9	18	5	0	0	0	0	0	0	1
10	14	9	1	0	0	0	0	0	0
11	11	10	3	0	0	0	0	0	0
12	15	9	0	0	0	0	0	0	0
13	14	9	1	0	0	0	0	0	0
14	13	10	1	0	0	0	0	0	0
15	13	10	1	0	0	0	0	0	0
16	19	5	0	0	0	0	0	0	9
17	11	2	1	0	0	0	1	0	24
18	0	0	0	0	0	0	0	0	3
19	8	9	4	0	0	0	0	0	0
20	19	5	0	0	0	0	0	0	0
21	13	11	0	0	0	0	0	0	0
22	8	14	2	0	0	0	0	0	0
23	8	15	1	0	0	0	0	0	0
24	15	9	0	0	0	0	0	0	0
25	19	5	0	0	0	0	0	0	0
26	10	9	4	1	0	0	0	0	0
27	14	10	0	0	0	0	0	0	0
28	14	10	0	0	0	0	0	0	0
29	20	4	0	0	0	0	0	0	0
30	21	3	0	0	0	0	0	0	0
31	17	6	0	0	0	0	0	0	1
AVERAGE	14.3	7.6	0.8	0.0	0.0	0.0	0.0	0.0	1.2
TOTAL	443	235	26	1	0	0	1	0	38

* U.S. GOVERNMENT PRINTING OFFICE: 1981-740-145/2403