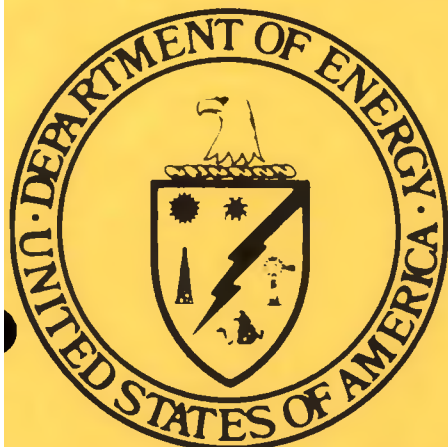


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(Modified)

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

May 1980



U.S. DEPARTMENT OF ENERGY

NATIONAL SOLAR DATA PROGRAM

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MAY 1980 ENVIRONMENTAL DATA
FOR SITES IN THE
NATIONAL SOLAR DATA NETWORK

PREPARED FOR

U. S. DEPARTMENT OF ENERGY
DE-AC01-79CS30027
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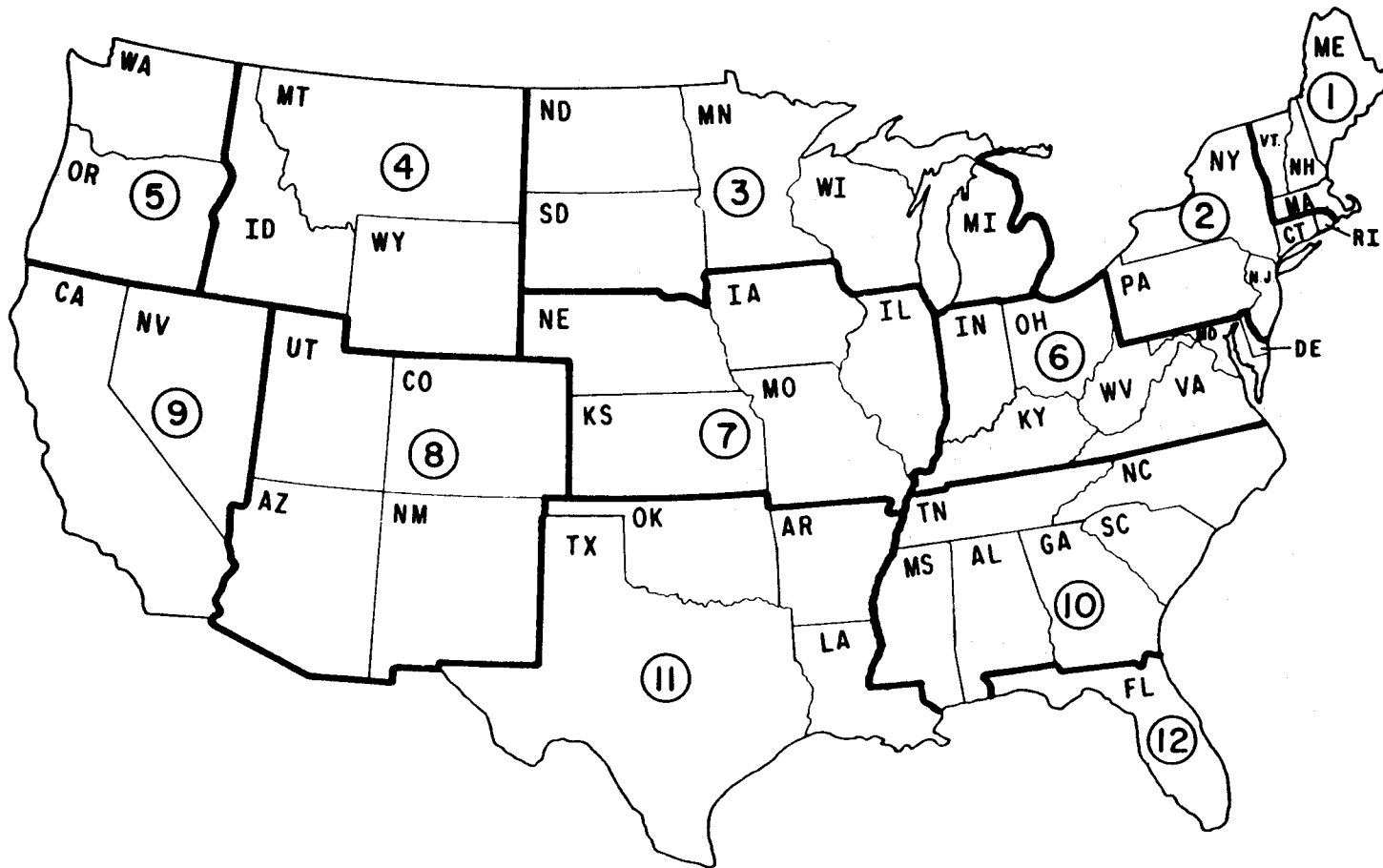
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Figure 1. National Solar Data Program Zones

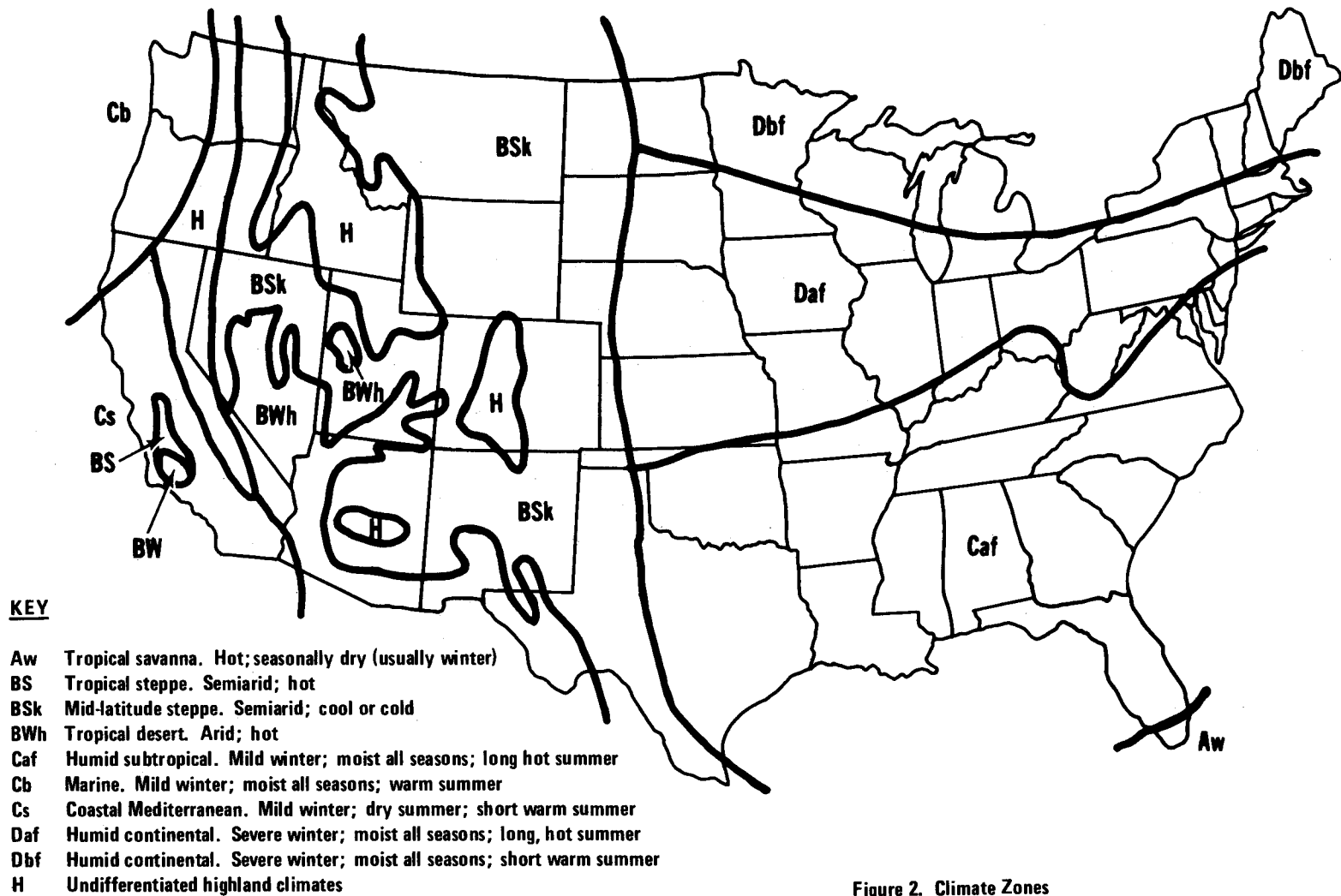


Figure 2. Climate Zones

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

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 insolation 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 extra-terrestrial radiation for the solar site. It also shows the ratio of total extra-terrestrial radiation, as a percent.
- o Temperature. The temperature table gives the average, daytime, nighttime, maximum, minimum and inlet-water temperatures for the solar site.

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 (hours for a range of speeds) 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.

SENSOR TECHNOLOGY

Insolation

Eppley pyranometers and shadow-band 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 shadow-band 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 shadow band 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 shadow-band pyranometer, the accuracy of its measurement depends on the correct adjustment of the shadow band to be certain that the sensor is shielded from the direct rays of the sun.

The pyranometer includes a circular multi-junction 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/540 (or W102-P-DC/540) 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 vehicle 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.

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 (0-540°). 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. In 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.

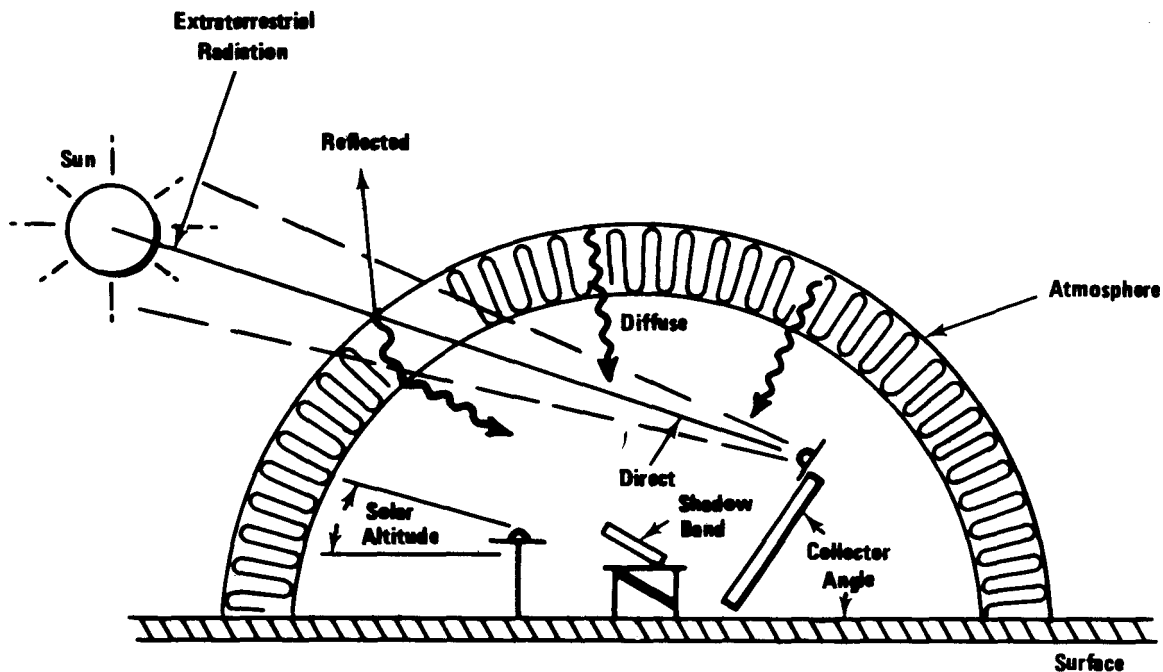


Figure 3. Incoming Solar Radiation

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 shadow band pyranometer. The diffuse radiation readings have not been corrected for sky radiation blocked by the band. Maladjustment of the shadow band 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 quantifies the effects of cloudiness and atmospheric transmission on the insolation received at the earth's surface for each site.

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

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.

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.

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 ground-water temperature provided by municipalities or private wells to the system.

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. Wind speed and direction data are collected once every 5 minutes and 20 seconds.

The anemometers in the NSDN are placed to measure the wind at the collector array and thus may not be representative of regional wind 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.

The data are also available on tape in the SOLMET System from the National Oceanographic and Atmospheric Administration Environmental Data and Information Service, National Climatic Center, Federal Building, Asheville, N. C., 28801.

Previous reports are:

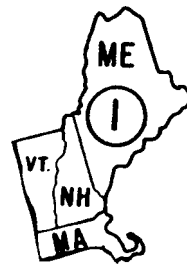
SOLAR/0010-78/09, September 1978
SOLAR/0010-78/10, October 1978
SOLAR/0010-78/11, November 1978
SOLAR/0010-78/12, December 1978
SOLAR/0010-79/01, January 1979
SOLAR/0010-79/02, February 1979
SOLAR/0010-79/03, March 1979
SOLAR/0010-79/04, April 1979
SOLAR/0010-79/05, May 1979
SOLAR/0010-79/06, June 1979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

NATIONAL SOLAR DATA NETWORK

ENVIRONMENTAL DATA TABLES

* 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: CONCORD MUNICIPAL LIGHT
CONCORD, MASSACHUSETTS

REPORT PERIOD: 80/ 5
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

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
						PERCENT
				TIME		
				HR:MN		
1	239.	N.A.	N.A.	62.	2777.	9.
2	1784.	N.A.	N.A.	343.	2767.	64.
3	1985.	N.A.	N.A.	299.	2752.	72.
4	2184.	N.A.	N.A.	321.	2742.	80.
5	1780.	N.A.	N.A.	293.	2730.	65.
6	1834.	N.A.	N.A.	293.	2720.	67.
7	237.	N.A.	N.A.	62.	2708.	9.
8	212.	N.A.	N.A.	65.	2696.	8.
9	1735.	N.A.	N.A.	355.	2684.	65.
10	1764.	N.A.	N.A.	349.	2675.	66.
11	875.	N.A.	N.A.	305.	2664.	33.
12	1284.	N.A.	N.A.	296.	2655.	48.
13	338.	N.A.	N.A.	159.	2644.	13.
14	1164.	N.A.	N.A.	305.	2630.	44.
15	1388.	N.A.	N.A.	324.	2622.	53.
16	1923.	N.A.	N.A.	333.	2612.	74.
17	2049.	N.A.	N.A.	302.	2604.	79.
18	500.	N.A.	N.A.	171.	2594.	19.
19	1157.	N.A.	N.A.	340.	2584.	45.
20	2009.	N.A.	N.A.	293.	2574.	78.
21	274.	N.A.	N.A.	50.	2565.	11.
22	1799.	N.A.	N.A.	277.	2558.	70.
23	1795.	N.A.	N.A.	259.	2549.	70.
24	1571.	N.A.	N.A.	237.	2541.	62.
25	1980.	N.A.	N.A.	290.	2535.	78.
26	1785.	N.A.	N.A.	336.	2524.	71.
27	1915.	N.A.	N.A.	324.	2516.	76.
28	2056.	N.A.	N.A.	299.	2511.	82.
29	*	N.A.	N.A.	*	2504.	*
30	*	N.A.	N.A.	*	2496.	*
31	*	N.A.	N.A.	*	2492.	*
MEAN	1415.	N.A.	N.A.		2620.	
STANDARD DEVIATION	666.	N.A.	N.A.		88.	

ENVIRONMENTAL SUMMARY REPORT

SITE: CONCORD MUNICIPAL LIGHT
CONCORD, MASSACHUSETTS

REPORT PERIOD: 80/ 5
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	50.	52.	48.	54.	10:22	48.	1:23	N.A.
2	52.	57.	46.	65.	15: 6	42.	23:47	N.A.
3	60.	72.	49.	91.	14:54	34.	4:35	N.A.
4	59.	65.	54.	70.	14:44	49.	22:50	N.A.
5	58.	67.	49.	76.	13:51	45.	23:59	N.A.
6	54.	62.	47.	69.	12:31	41.	2:39	N.A.
7	46.	47.	46.	50.	0: 4	44.	23:29	N.A.
8	46.	47.	45.	51.	14:57	43.	6:14	N.A.
9	51.	58.	45.	64.	14:30	41.	22:54	N.A.
10	53.	62.	45.	71.	16:14	33.	3:42	N.A.
11	58.	65.	53.	71.	16: 2	46.	4:35	N.A.
12	65.	72.	59.	81.	13:27	50.	2:15	N.A.
13	64.	67.	62.	77.	16:17	57.	23:24	N.A.
14	61.	68.	56.	74.	14:58	48.	23:58	N.A.
15	56.	64.	48.	69.	14:17	40.	3:53	N.A.
16	58.	71.	47.	78.	17: 0	37.	4:18	N.A.
17	61.	73.	50.	82.	15:20	40.	4:30	N.A.
18	58.	61.	55.	68.	9:23	50.	4:24	N.A.
19	66.	74.	60.	80.	14:30	56.	4: 1	N.A.
20	63.	72.	55.	76.	13:58	47.	22: 8	N.A.
21	51.	53.	50.	56.	17:53	47.	2: 3	N.A.
22	69.	83.	58.	94.	14:30	46.	4:17	N.A.
23	67.	79.	57.	85.	11:59	53.	23:57	N.A.
24	64.	74.	55.	85.	14:11	49.	3:57	N.A.
25	62.	72.	53.	79.	16:19	43.	23:45	N.A.
26	56.	67.	47.	73.	16:47	38.	4:12	N.A.
27	58.	70.	48.	76.	16:26	40.	4:31	N.A.
28	58.	71.	47.	81.	15:56	37.	3:40	N.A.
29	*	*	*	*	*:*	*	*:*	N.A.
30	*	*	*	*	*:*	*	*:*	N.A.
31	*	*	*	*	*:*	*	*:*	N.A.
MEAN	58.	66.	51.					N.A.
STANDARD DEVIATION	6.1	8.9	5.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: KALWALL CORPORATION
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 80/ 5
SITE NUMBER: 5

LATITUDE: 43.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 71.40 DEG WEST PYRANOMETER TILT: 89 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	250.	N.A.	N.A.	103.	11:11	1325.	19.
2	832.	N.A.	N.A.	174.	11:14	1306.	64.
3	896.	N.A.	N.A.	155.	11:44	1286.	70.
4	951.	N.A.	N.A.	168.	11:55	1266.	75.
5	665.	N.A.	N.A.	158.	11: 7	1248.	53.
6	849.	N.A.	N.A.	151.	12: 6	1230.	69.
7	59.	N.A.	N.A.	13.	12:51	1211.	5.
8	92.	N.A.	N.A.	29.	14:18	1195.	8.
9	551.	N.A.	N.A.	161.	10:59	1177.	47.
10	694.	N.A.	N.A.	164.	11: 9	1161.	60.
11	354.	N.A.	N.A.	148.	10:53	1144.	31.
12	769.	N.A.	N.A.	164.	11:51	1128.	68.
13	271.	N.A.	N.A.	74.	10:30	1112.	24.
14	551.	N.A.	N.A.	168.	11:28	1096.	50.
15	397.	N.A.	N.A.	145.	12:26	1083.	37.
16	682.	N.A.	N.A.	155.	11: 8	1068.	64.
17	699.	N.A.	N.A.	145.	11: 5	1053.	66.
18	222.	N.A.	N.A.	55.	9:29	1039.	21.
19	426.	N.A.	N.A.	122.	12:47	1026.	42.
20	674.	N.A.	N.A.	145.	12: 2	1014.	66.
21	212.	N.A.	N.A.	42.	10:47	1000.	21.
22	675.	N.A.	N.A.	132.	11:31	988.	68.
23	627.	N.A.	N.A.	129.	11:52	977.	64.
24	628.	N.A.	N.A.	113.	11:17	965.	65.
25	578.	N.A.	N.A.	142.	11:33	954.	61.
26	486.	N.A.	N.A.	145.	11:15	943.	52.
27	511.	N.A.	N.A.	139.	11:20	933.	55.
28	423.	N.A.	N.A.	135.	11:40	924.	46.
29	437.	N.A.	N.A.	135.	11:43	914.	48.
30	489.	N.A.	N.A.	90.	11:43	906.	54.
31	376.	N.A.	N.A.	90.	13:57	896.	42.
MEAN	527.	N.A.	N.A.			1083.	
STANDARD DEVIATION	230.	N.A.	N.A.			131.	

ENVIRONMENTAL SUMMARY REPORT

SITE: KALWALL CORPORATION
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 80/ 5
SITE NUMBER: 5

LATITUDE: 43.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.40 DEG WEST PYRANOMETER TILT: 89 DEG 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	55.	60.	51.	68.	13:30	49.	0: 4	N.A.
2	55.	63.	49.	69.	14:10	44.	23:55	N.A.
3	62.	73.	55.	85.	13:52	35.	3:34	N.A.
4	60.	67.	55.	71.	13:36	47.	21:47	N.A.
5	58.	67.	52.	75.	11:12	49.	4: 5	N.A.
6	55.	65.	49.	71.	13:15	41.	4: 6	N.A.
7	45.	46.	45.	47.	9:55	43.	21: 3	N.A.
8	46.	46.	45.	49.	16:46	42.	4:58	N.A.
9	53.	61.	49.	68.	14: 0	43.	23:41	N.A.
10	55.	64.	49.	71.	16:35	38.	4:35	N.A.
11	57.	64.	52.	72.	10:16	40.	3: 9	N.A.
12	68.	77.	62.	88.	13:49	48.	3:35	N.A.
13	65.	67.	63.	73.	16: 0	56.	23:39	N.A.
14	60.	66.	56.	74.	14:29	46.	23:59	N.A.
15	56.	67.	50.	73.	12:26	41.	1:51	N.A.
16	63.	75.	55.	83.	14: 4	44.	3:29	N.A.
17	63.	76.	55.	86.	14:39	41.	4:52	N.A.
18	58.	60.	56.	66.	11: 6	53.	4:25	N.A.
19	66.	73.	62.	84.	14:23	54.	23:35	N.A.
20	64.	75.	57.	80.	11:24	48.	23:56	N.A.
21	55.	60.	52.	63.	12:55	44.	3:14	N.A.
22	72.	87.	64.	96.	14:22	47.	4:35	N.A.
23	69.	81.	61.	84.	12:29	55.	23:38	N.A.
24	65.	77.	59.	83.	12:58	52.	2:45	N.A.
25	64.	76.	57.	80.	12:58	45.	23:57	N.A.
26	59.	69.	53.	75.	14: 5	42.	3:57	N.A.
27	61.	73.	54.	77.	15:15	42.	4:19	N.A.
28	61.	73.	54.	78.	14:20	41.	4:18	N.A.
29	63.	76.	56.	84.	14: 2	40.	4:20	N.A.
30	66.	77.	59.	83.	15: 6	43.	2:50	N.A.
31	67.	71.	65.	78.	17:15	56.	4:27	N.A.
MEAN	60.	69.	55.					N.A.
STANDARD DEVIATION	6.2	8.9	5.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: KALWALL CORPORATION
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 80/ 5
SITE NUMBER: 5

LATITUDE: 43.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.40 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 500 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.	7.	*	11:38
2	*	2.	*	3.	6.	*	1:22
3	*	1.	*	2.	7.	*	15:55
4	154.	5.	154.	9.	16.	147.	11:44
5	*	1.	*	2.	7.	*	12:37
6	*	2.	*	3.	8.	*	14:56
7	217.	2.	223.	2.	7.	265.	2:37
8	*	0.	*	0.	4.	*	7:48
9	114.	4.	114.	7.	12.	101.	15:31
10	113.	4.	118.	8.	11.	145.	10:37
11	353.	3.	353.	5.	9.	339.	12:39
12	87.	3.	98.	4.	10.	78.	15:54
13	*	1.	*	1.	6.	*	18:24
14	134.	3.	131.	5.	11.	134.	16:15
15	134.	3.	134.	4.	8.	153.	13:14
16	132.	4.	134.	7.	15.	101.	15:42
17	*	1.	*	2.	6.	*	15:16
18	353.	2.	354.	3.	6.	28.	12:31
19	112.	2.	111.	5.	10.	118.	12:37
20	*	1.	*	2.	6.	*	11:56
21	*	0.	*	0.	3.	*	15: 8
22	127.	3.	129.	7.	14.	160.	15: 4
23	*	1.	*	3.	6.	*	11: 4
24	*	1.	*	1.	5.	*	14:40
25	157.	3.	160.	6.	11.	158.	9:46
26	141.	4.	140.	7.	15.	117.	11: 9
27	140.	4.	140.	9.	15.	99.	12: 8
28	134.	3.	128.	6.	12.	120.	11:24
29	*	1.	*	3.	6.	*	16:15
30	6.	2.	11.	3.	8.	30.	17:20
31	*	2.	*	3.	6.	*	14: 3
MEAN	153.	2.	155.	4.			
STANDARD DEVIATION	85.6	1.2	85.0	2.4			

ENVIRONMENTAL SUMMARY REPORT

SITE: KALWALL CORPORATION
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 80/ 5
SITE NUMBER: 5

LATITUDE: 43.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.40 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 500 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	23	1	0	0	0	0	0	0	0
2	24	0	0	0	0	0	0	0	0
3	21	3	0	0	0	0	0	0	0
4	10	7	7	0	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	21	3	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	10	12	2	0	0	0	0	0	0
10	13	7	4	0	0	0	0	0	0
11	15	9	0	0	0	0	0	0	0
12	16	8	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	15	7	2	0	0	0	0	0	0
15	15	9	0	0	0	0	0	0	0
16	11	10	3	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	21	3	0	0	0	0	0	0	0
19	19	5	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	15	4	5	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	13	11	0	0	0	0	0	0	0
26	11	12	1	0	0	0	0	0	0
27	13	4	7	0	0	0	0	0	0
28	14	10	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	18	6	0	0	0	0	0	0	0
31	20	3	0	0	0	0	0	0	1
AVERAGE	18.6	4.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	578	134	31	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 36
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 80/ 5
SITE NUMBER: 83

LATITUDE: 42.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 71.00 DEG WEST 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 VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	199.	N.A.	N.A.	38.	13:10	2687.	7.
2	1856.	N.A.	N.A.	301.	11:38	2673.	69.
3	1876.	N.A.	N.A.	276.	11:12	2660.	71.
4	2071.	N.A.	N.A.	295.	11: 6	2649.	78.
5	1791.	N.A.	N.A.	270.	12:34	2635.	68.
6	1726.	N.A.	N.A.	276.	11:35	2625.	66.
7	338.	N.A.	N.A.	63.	11: 3	2611.	13.
8	202.	N.A.	N.A.	53.	15:43	2599.	8.
9	1732.	N.A.	N.A.	317.	11:29	2588.	67.
10	1655.	N.A.	N.A.	307.	11:57	2576.	64.
11	727.	N.A.	N.A.	219.	9:28	2563.	28.
12	943.	N.A.	N.A.	251.	12:40	2551.	37.
13	523.	N.A.	N.A.	169.	11:59	2542.	21.
14	1042.	N.A.	N.A.	279.	10:24	2530.	41.
15	1356.	N.A.	N.A.	270.	12:36	2521.	54.
16	1841.	N.A.	N.A.	282.	10: 6	2510.	73.
17	1902.	N.A.	N.A.	266.	11:25	2499.	76.
18	465.	N.A.	N.A.	107.	9:17	2488.	19.
19	1208.	N.A.	N.A.	288.	11:21	2480.	49.
20	1810.	N.A.	N.A.	260.	11:49	2470.	73.
21	212.	N.A.	N.A.	38.	10: 5	2459.	9.
22	1716.	N.A.	N.A.	248.	11:12	2450.	70.
23	1754.	N.A.	N.A.	226.	12: 6	2443.	72.
24	1394.	N.A.	N.A.	204.	10:54	2433.	57.
25	1838.	N.A.	N.A.	260.	11:22	2424.	76.
26	1775.	N.A.	N.A.	288.	11:50	2418.	73.
27	1864.	N.A.	N.A.	270.	10:35	2409.	77.
28	1844.	N.A.	N.A.	257.	11: 0	2401.	77.
29	1749.	N.A.	N.A.	254.	11:32	2393.	73.
30	1716.	N.A.	N.A.	257.	12: 9	2386.	72.
31	855.	N.A.	N.A.	197.	9:48	2381.	36.
MEAN	1354.	N.A.	N.A.			2518.	
STANDARD DEVIATION	612.	N.A.	N.A.			94.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 36
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 80/ 5
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	49.	51.	48.	53.	12:49	47.	2:46	60.
2	54.	62.	46.	75.	15:43	42.	23:18	59.
3	60.	71.	51.	96.	14:46	36.	4:48	64.
4	60.	64.	57.	74.	15:25	50.	23:9	66.
5	59.	68.	51.	84.	14:53	45.	23:35	66.
6	57.	67.	48.	81.	15:3	41.	3:41	68.
7	48.	50.	47.	55.	13:43	45.	9:11	68.
8	45.	46.	45.	50.	17:14	42.	5:35	63.
9	50.	56.	45.	65.	15:29	39.	4:12	64.
10	52.	58.	48.	68.	15:52	37.	4:40	66.
11	56.	61.	52.	68.	10:32	46.	4:56	65.
12	64.	68.	59.	77.	13:55	51.	3:42	62.
13	64.	67.	61.	77.	17:15	57.	23:55	65.
14	61.	66.	56.	70.	10:51	47.	23:48	66.
15	56.	61.	51.	69.	12:36	46.	0:26	65.
16	60.	68.	53.	85.	15:26	43.	4:46	67.
17	64.	76.	54.	96.	14:58	44.	4:40	65.
18	57.	59.	54.	64.	10:37	50.	4:13	68.
19	66.	72.	61.	81.	13:50	57.	0:30	68.
20	66.	76.	56.	87.	14:24	47.	22:31	70.
21	51.	52.	50.	54.	18:24	47.	2:47	68.
22	69.	79.	61.	92.	15:2	47.	3:18	65.
23	73.	85.	63.	95.	14:57	54.	23:42	69.
24	66.	77.	56.	89.	13:34	50.	4:41	72.
25	65.	76.	56.	90.	16:26	49.	4:25	72.
26	57.	64.	51.	75.	15:34	41.	2:57	69.
27	58.	66.	51.	74.	15:23	42.	4:17	70.
28	60.	69.	53.	86.	16:26	45.	3:54	70.
29	63.	73.	51.	90.	15:53	40.	4:36	68.
30	63.	73.	53.	84.	13:45	40.	4:15	71.
31	66.	73.	61.	83.	15:29	54.	4:39	72.
MEAN	59.	66.	53.					67.
STANDARD DEVIATION	6.5	9.2	5.1					3.3

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 73
 MEDWAY, MASSACHUSETTS

REPORT PERIOD: 80/ 5
 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	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	130.	N.A.	N.A.	33.	13:24	3094.	4.
2	1793.	N.A.	N.A.	265.	14:16	3086.	58.
3	1936.	N.A.	N.A.	262.	9:41	3078.	63.
4	2174.	N.A.	N.A.	277.	13:10	3071.	71.
5	1740.	N.A.	N.A.	256.	13:10	3063.	57.
6	1753.	N.A.	N.A.	235.	11:38	3055.	57.
7	289.	N.A.	N.A.	60.	10:59	3051.	9.
8	135.	N.A.	N.A.	51.	15:47	3043.	4.
9	1722.	N.A.	N.A.	283.	13:14	3036.	57.
10	1711.	N.A.	N.A.	262.	13:29	3028.	56.
11	716.	N.A.	N.A.	232.	9:29	3021.	24.
12	947.	N.A.	N.A.	238.	12:50	3014.	31.
13	529.	N.A.	N.A.	196.	13:49	3006.	18.
14	1097.	N.A.	N.A.	259.	10:22	2999.	37.
15	1392.	N.A.	N.A.	296.	9:37	2992.	47.
16	1878.	N.A.	N.A.	274.	9:44	2986.	63.
17	2043.	N.A.	N.A.	268.	14:11	2979.	69.
18	437.	N.A.	N.A.	109.	9:18	2975.	15.
19	1205.	N.A.	N.A.	256.	11:21	2968.	41.
20	1898.	N.A.	N.A.	265.	14:16	2962.	64.
21	137.	N.A.	N.A.	30.	10: 4	2956.	5.
22	1756.	N.A.	N.A.	223.	11:55	2950.	60.
23	1788.	N.A.	N.A.	223.	14: 0	2944.	61.
24	1450.	N.A.	N.A.	190.	10:52	2938.	49.
25	1973.	N.A.	N.A.	241.	11:56	2932.	67.
26	1881.	N.A.	N.A.	305.	13:19	2927.	64.
27	1995.	N.A.	N.A.	253.	9:56	2921.	68.
28	2111.	N.A.	N.A.	247.	11:59	2916.	72.
29	1922.	N.A.	N.A.	247.	9:20	2911.	66.
30	1851.	N.A.	N.A.	259.	9:48	2906.	64.
31	876.	N.A.	N.A.	208.	9:44	2901.	30.
MEAN	1396.	N.A.	N.A.			2991.	
STANDARD DEVIATION	667.	N.A.	N.A.			59.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 73
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 80/ 5
SITE NUMBER: 84

LATITUDE: 42.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 45 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	49.	50.	48.	52.	14:39	47.	3:16	64.
2	50.	54.	46.	59.	11: 9	40.	23:59	62.
3	61.	73.	50.	83.	12:21	34.	4:42	63.
4	62.	69.	54.	74.	9:30	48.	23:55	66.
5	59.	70.	49.	84.	12: 6	42.	23:59	65.
6	53.	61.	46.	70.	8:42	40.	3:22	64.
7	47.	48.	46.	52.	14:48	45.	9:34	62.
8	46.	47.	45.	51.	16:19	43.	5:28	64.
9	54.	65.	43.	71.	9:41	35.	23:58	61.
10	55.	66.	45.	73.	8:46	31.	4: 4	62.
11	57.	62.	51.	71.	9:34	40.	4:30	62.
12	65.	72.	59.	81.	14:31	49.	3:56	64.
13	64.	67.	61.	76.	15:15	56.	23:26	67.
14	64.	74.	55.	85.	10:22	43.	23:56	65.
15	59.	72.	48.	80.	9:32	36.	4:23	65.
16	60.	73.	48.	80.	10:38	38.	4:30	65.
17	61.	72.	49.	84.	11:15	35.	4:14	65.
18	56.	59.	53.	64.	10:43	48.	4: 3	66.
19	68.	76.	61.	86.	11:21	57.	4:41	67.
20	60.	67.	53.	76.	9:17	45.	22: 4	67.
21	50.	50.	50.	53.	21:53	45.	0:34	65.
22	72.	85.	58.	94.	12:11	47.	4:33	69.
23	68.	78.	57.	94.	10:48	52.	4: 3	69.
24	63.	71.	56.	79.	11:30	49.	3:51	68.
25	64.	76.	54.	85.	10:15	42.	23:58	69.
26	59.	73.	46.	79.	9:24	35.	3: 0	67.
27	60.	74.	45.	81.	11: 0	36.	4:20	66.
28	60.	75.	46.	82.	10:44	35.	4:10	65.
29	62.	77.	47.	88.	11:38	34.	4:21	66.
30	64.	77.	51.	89.	9:54	37.	4:28	68.
31	66.	72.	60.	76.	15:52	53.	4:46	71.
MEAN	59.	68.	51.					65.
STANDARD DEVIATION	6.3	9.6	5.3					2.4

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 77
MEDWAY, MASSACHUSETTS

REPORT PERIOD: 80/ 5
SITE NUMBER: 85

LATITUDE: 42.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 38 DEG 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	157.	N.A.	N.A.	33.	9:41	3255.	5.
2	1969.	N.A.	N.A.	347.	11:31	3251.	61.
3	2183.	N.A.	N.A.	316.	11:35	3247.	67.
4	2463.	N.A.	N.A.	340.	11: 3	3243.	76.
5	1985.	N.A.	N.A.	310.	11:46	3239.	61.
6	1983.	N.A.	N.A.	316.	11:36	3235.	61.
7	313.	N.A.	N.A.	61.	11: 0	3228.	10.
8	152.	N.A.	N.A.	55.	15:47	3223.	5.
9	1975.	N.A.	N.A.	334.	10:13	3219.	61.
10	1940.	N.A.	N.A.	347.	11:48	3215.	60.
11	817.	N.A.	N.A.	261.	9:30	3211.	25.
12	1059.	N.A.	N.A.	274.	12:47	3207.	33.
13	538.	N.A.	N.A.	237.	13:47	3203.	17.
14	1197.	N.A.	N.A.	340.	10:51	3199.	37.
15	1607.	N.A.	N.A.	359.	11:52	3192.	50.
16	2231.	N.A.	N.A.	334.	11:56	3187.	70.
17	2349.	N.A.	N.A.	319.	10:48	3183.	74.
18	493.	N.A.	N.A.	125.	9:18	3179.	15.
19	1370.	N.A.	N.A.	347.	11:29	3176.	43.
20	2152.	N.A.	N.A.	307.	11: 1	3172.	68.
21	157.	N.A.	N.A.	33.	10: 6	3168.	5.
22	2016.	N.A.	N.A.	292.	11:32	3164.	64.
23	2003.	N.A.	N.A.	267.	12: 5	3160.	63.
24	1644.	N.A.	N.A.	240.	10:54	3157.	52.
25	2243.	N.A.	N.A.	307.	10:59	3153.	71.
26	2194.	N.A.	N.A.	340.	12:58	3150.	70.
27	2279.	N.A.	N.A.	322.	10:45	3146.	72.
28	2314.	N.A.	N.A.	310.	11: 0	3143.	74.
29	2233.	N.A.	N.A.	307.	10:52	3140.	71.
30	2140.	N.A.	N.A.	307.	10:57	3136.	68.
31	958.	N.A.	N.A.	252.	9:48	3133.	31.
MEAN	1584.	N.A.	N.A.			3191.	
STANDARD DEVIATION	766.	N.A.	N.A.			38.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SADDLE HILL TRUST, LOT 77
MEDWAY, MASSACHUSETTS

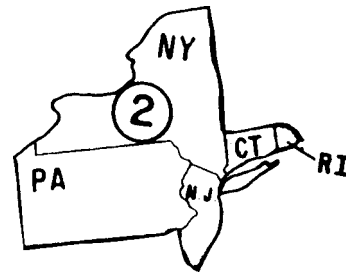
REPORT PERIOD: 80/ 5
SITE NUMBER: 85

LATITUDE: 42.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.00 DEG WEST PYRANOMETER TILT: 38 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	51.	52.	49.	55.	13:31	48.	23: 9	55.
2	55.	63.	46.	75.	15: 4	41.	23:56	70.
3	61.	71.	50.	97.	14:31	35.	5: 0	60.
4	61.	65.	57.	72.	14:58	50.	23:52	62.
5	59.	68.	50.	88.	15:14	43.	23:58	61.
6	57.	68.	47.	81.	14:11	40.	3:26	60.
7	49.	51.	47.	57.	14:33	46.	23:31	59.
8	47.	47.	46.	51.	17:12	44.	5:39	59.
9	51.	58.	45.	64.	14:34	37.	23:54	62.
10	53.	59.	47.	69.	15: 6	33.	3:16	64.
11	57.	61.	52.	67.	10:23	44.	4:31	62.
12	65.	70.	60.	80.	14:34	50.	3:54	60.
13	65.	69.	62.	79.	17: 4	57.	21:15	63.
14	62.	68.	56.	73.	10:25	45.	23:57	62.
15	56.	63.	49.	70.	12:35	38.	4:29	62.
16	59.	70.	49.	82.	15:30	38.	4:44	64.
17	62.	74.	48.	93.	13:18	36.	4:14	63.
18	57.	59.	55.	65.	10:27	50.	4: 3	61.
19	67.	73.	62.	82.	15: 3	58.	0:28	62.
20	66.	77.	54.	86.	14:18	45.	22:22	65.
21	52.	52.	51.	54.	22: 2	47.	0:14	61.
22	70.	80.	60.	93.	14:39	47.	4:42	66.
23	72.	86.	58.	98.	15:17	53.	4:32	64.
24	67.	77.	56.	92.	12:14	49.	4:24	65.
25	66.	77.	55.	91.	15:31	45.	23:54	67.
26	56.	65.	46.	73.	13: 4	36.	2:40	66.
27	56.	67.	45.	74.	15:49	36.	3:54	64.
28	58.	69.	46.	81.	15:16	35.	4:26	66.
29	60.	73.	46.	97.	15:46	35.	4: 2	67.
30	61.	72.	50.	81.	13:58	36.	4: 6	67.
31	66.	72.	61.	81.	15:24	54.	4:49	65.
MEAN	60.	67.	52.					63.
STANDARD DEVIATION	6.3	8.9	5.5					3.1

ZONE 2



ENVIRONMENTAL SUMMARY REPORT

SITE: BELL OF PENNSYLVANIA
WEST GOSHEN, PENNSYLVANIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 20

LATITUDE: 39.90 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 75.70 DEG WEST PYRANOMETER TILT: 55 DEG 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	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1170.	N.A.	N.A.	308.	11: 7	2720.	43.
2	1363.	N.A.	N.A.	320.	11:40	2706.	50.
3	1767.	N.A.	N.A.	275.	11:36	2693.	66.
4	1847.	N.A.	N.A.	269.	11:28	2682.	69.
5	1867.	N.A.	N.A.	269.	11:55	2669.	70.
6	1941.	N.A.	N.A.	251.	11:27	2656.	73.
7	1709.	N.A.	N.A.	263.	11:41	2644.	65.
8	348.	N.A.	N.A.	109.	14:58	2634.	13.
9	1281.	N.A.	N.A.	299.	10:55	2624.	49.
10	1837.	N.A.	N.A.	272.	11:39	2612.	70.
11	516.	N.A.	N.A.	178.	9: 4	2600.	20.
12	723.	N.A.	N.A.	193.	13:41	2588.	28.
13	1183.	N.A.	N.A.	275.	12:21	2579.	46.
14	1091.	N.A.	N.A.	239.	11: 6	2567.	43.
15	1889.	N.A.	N.A.	278.	11:40	2556.	74.
16	2007.	N.A.	N.A.	281.	11:57	2545.	79.
17	1325.	N.A.	N.A.	305.	11:37	2537.	52.
18	236.	N.A.	N.A.	85.	10:22	2526.	9.
19	1120.	N.A.	N.A.	269.	11:21	2516.	44.
20	465.	N.A.	N.A.	118.	10:33	2508.	19.
21	152.	N.A.	N.A.	42.	10:54	2498.	6.
22	1953.	N.A.	N.A.	269.	11:53	2489.	78.
23	*	N.A.	N.A.	*	*:*	2479.	*
24	*	N.A.	N.A.	*	*:*	2473.	*
25	*	N.A.	N.A.	*	*:*	2464.	*
26	1870.	N.A.	N.A.	275.	11:19	2455.	76.
27	1528.	N.A.	N.A.	227.	10:15	2447.	62.
28	1619.	N.A.	N.A.	263.	11:45	2439.	66.
29	1410.	N.A.	N.A.	230.	12:22	2431.	58.
30	*	N.A.	N.A.	*	*:*	2426.	*
31	*	N.A.	N.A.	*	*:*	2419.	*
MEAN	1316.	N.A.	N.A.			2554.	
STANDARD DEVIATION	586.	N.A.	N.A.			92.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BELL OF PENNSYLVANIA
WEST GOSHEN, PENNSYLVANIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 20

LATITUDE: 39.90 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 75.70 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 5 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.	57.	76.	17:21	50.	2:46	N.A.
2	61.	66.	58.	75.	15:50	55.	2: 9	N.A.
3	66.	70.	63.	82.	17:12	54.	6: 5	N.A.
4	69.	72.	66.	80.	16:48	61.	5:28	N.A.
5	71.	78.	65.	87.	16:11	56.	3:55	N.A.
6	72.	79.	64.	86.	14:39	61.	5:14	N.A.
7	66.	71.	61.	81.	15:51	56.	23:56	N.A.
8	52.	54.	51.	59.	17: 6	47.	23:54	N.A.
9	50.	54.	47.	60.	17: 4	41.	5: 9	N.A.
10	57.	63.	52.	74.	16:43	41.	5:25	N.A.
11	59.	62.	57.	68.	17:14	52.	5:31	N.A.
12	67.	71.	63.	83.	16: 5	59.	0: 5	N.A.
13	71.	75.	68.	83.	16:26	61.	4:26	N.A.
14	64.	68.	61.	70.	11:22	54.	23:56	N.A.
15	57.	60.	54.	66.	17:17	48.	4:33	N.A.
16	59.	64.	55.	75.	15:57	45.	5:11	N.A.
17	62.	68.	56.	74.	13: 2	50.	3:26	N.A.
18	61.	62.	60.	66.	18:28	57.	4: 9	N.A.
19	67.	73.	63.	79.	13:50	61.	22:49	N.A.
20	66.	68.	65.	75.	19:53	61.	2:28	N.A.
21	59.	59.	59.	62.	0: 4	56.	23:21	N.A.
22	66.	72.	55.	82.	15:53	52.	4:41	N.A.
23	*	*	*	*	*:*	*	*:*	N.A.
24	*	*	*	*	*:*	*	*:*	N.A.
25	*	*	*	*	*:*	*	*:*	N.A.
26	64.	67.	60.	74.	17:22	55.	4:44	N.A.
27	61.	65.	58.	70.	16:44	51.	4:50	N.A.
28	66.	68.	64.	78.	19:55	55.	5:10	N.A.
29	69.	73.	65.	80.	14:30	60.	5:15	N.A.
30	*	*	*	*	*:*	*	*:*	N.A.
31	*	*	*	*	*:*	*	*:*	N.A.
MEAN	63.	67.	59.					N.A.
STANDARD DEVIATION	5.5	6.5	5.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: LUTZ-SOTIRE
STAMFORD, CONNECTICUTREPORT PERIOD: 80/ 5
SITE NUMBER: 127LATITUDE: 41.10 DEG NORTH
LONGITUDE: 73.08 DEG WESTAZIMUTH: 5 DEG
PYRANOMETER TILT: 55 DEGTIME ZONE: EASTERN
ALTITUDE: 7 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	823.	655.	168.	177.	14:20	30.
2	1517.	1209.	309.	339.	12: 7	55.
3	1749.	833.	916.	292.	12:34	64.
4	1865.	922.	943.	271.	12:32	68.
5	1672.	717.	955.	265.	12:16	62.
6	1366.	763.	603.	242.	13:38	50.
7	1389.	859.	529.	280.	11:30	52.
8	340.	275.	66.	127.	13:21	13.
9	*	*	*	*	*:*	*
10	1776.	866.	910.	292.	11:38	67.
11	433.	325.	107.	215.	10:45	16.
12	612.	486.	126.	197.	12:52	23.
13	625.	504.	122.	183.	11:20	24.
14	1450.	962.	488.	280.	11:42	55.
15	1490.	807.	683.	283.	11:11	57.
16	2376.	531.	1845.	277.	11:48	91.
17	1747.	720.	1026.	286.	12:43	67.
18	296.	236.	60.	100.	12:59	11.
19	1099.	684.	415.	262.	13: 5	43.
20	1625.	951.	674.	286.	12:27	63.
21	151.	119.	31.	83.	13:16	6.
22	1559.	886.	674.	227.	11:33	61.
23	*	*	*	*	*:*	*
24	1273.	797.	476.	239.	11:42	50.
25	1794.	760.	1034.	256.	12:19	71.
26	1844.	715.	1129.	265.	12: 5	73.
27	1831.	699.	1132.	265.	12:37	73.
28	1766.	726.	1040.	256.	11:57	71.
29	1760.	743.	1017.	259.	12:41	71.
30	814.	634.	180.	224.	13:29	33.
31	528.	409.	119.	221.	14: 5	21.
MEAN	1296.	683.	613.			2608.
STANDARD DEVIATION	592.	242.	449.			88.

ENVIRONMENTAL SUMMARY REPORT

SITE: LUTZ-SOTIRE
STAMFORD, CONNECTICUT

REPORT PERIOD: 80/ 5
SITE NUMBER: 127

LATITUDE: 41.10 DEG NORTH AZIMUTH: 5 DEG TIME_ZONE: EASTERN
LONGITUDE: 73.08 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 7 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	58.	61.	54.	67.	17: 0	48.	1:16	N.A.
2	58.	64.	53.	70.	15:56	46.	23:57	N.A.
3	66.	75.	58.	85.	15: 9	44.	4:34	N.A.
4	64.	71.	58.	75.	16: 0	47.	23:49	N.A.
5	65.	74.	57.	88.	14:50	46.	0:42	N.A.
6	62.	72.	54.	81.	13:59	45.	4:50	N.A.
7	56.	61.	52.	70.	13:44	50.	4:13	N.A.
8	49.	49.	49.	54.	13:42	45.	5:26	N.A.
9	43.	*	43.	52.	19:12	38.	23:59	N.A.
10	53.	62.	45.	70.	14:29	35.	4:26	N.A.
11	54.	57.	50.	64.	11:27	43.	4:26	N.A.
12	61.	65.	58.	75.	16:14	50.	0:57	N.A.
13	67.	71.	64.	82.	17:12	58.	1:44	N.A.
14	64.	71.	58.	77.	11:31	47.	23:59	N.A.
15	56.	64.	49.	70.	11:11	41.	2:44	N.A.
16	59.	66.	51.	76.	16:21			N.A.
17	62.	72.	53.	79.	12:43	43.	2:30	N.A.
18	57.	58.	56.	62.	14: 9	54.	1:21	N.A.
19	67.	74.	61.	83.	14:14	57.	0: 1	N.A.
20	64.	70.	60.	76.	13:52	56.	23:56	N.A.
21	56.	56.	56.	60.	17:52	53.	3:56	N.A.
22	69.	78.	62.	87.	16:26	53.	5: 9	N.A.
23	65.	*	65.	86.	17:23	55.	4: 5	N.A.
24	70.	79.	62.	88.	14:22	57.	23:31	N.A.
25	68.	77.	59.	82.	15:36	49.	23:59	N.A.
26	60.	69.	53.	74.	15:17	43.	3:38	N.A.
27	61.	70.	54.	77.	14:18	45.	4:21	N.A.
28	62.	70.	55.	79.	15:20	44.	2:37	N.A.
29	64.	71.	58.	78.	13:50	49.	23:59	N.A.
30	61.	68.	55.	75.	15: 5	46.	4: 4	N.A.
31	66.	69.	63.	77.	14:21	58.	3:15	N.A.
MEAN	61.	68.	56.					N.A.
STANDARD DEVIATION	6.0	7.1	5.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: M. F. SMITH ASSOCIATES
JAMESTOWN, RHODE ISLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 160

LATITUDE: 41.44 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.26 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 110 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	510.	N.A.	N.A.	136.	13:21	3080.	17.
2	1702.	N.A.	N.A.	305.	13:14	3072.	55.
3	2144.	N.A.	N.A.	305.	12: 0	3064.	70.
4	*	N.A.	N.A.	*	*:*	3056.	*
5	2194.	N.A.	N.A.	308.	11:41	3048.	72.
6	2000.	N.A.	N.A.	291.	11:50	3040.	66.
7	1078.	N.A.	N.A.	272.	14: 8	3035.	36.
8	173.	N.A.	N.A.	91.	9:25	3028.	6.
9	1411.	N.A.	N.A.	300.	12: 8	3020.	47.
10	2279.	N.A.	N.A.	325.	11:42	3012.	76.
11	819.	N.A.	N.A.	263.	9:55	3005.	27.
12	748.	N.A.	N.A.	195.	11: 0	2997.	25.
13	993.	N.A.	N.A.	255.	13:17	2990.	33.
14	1266.	N.A.	N.A.	314.	11:45	2982.	42.
15	1687.	N.A.	N.A.	351.	12:24	2975.	57.
16	2382.	N.A.	N.A.	314.	12:18	2968.	80.
17	2091.	N.A.	N.A.	311.	11:55	2961.	71.
18	552.	N.A.	N.A.	91.	9:10	2955.	19.
19	1256.	N.A.	N.A.	325.	11:33	2948.	43.
20	2217.	N.A.	N.A.	308.	12:12	2941.	75.
21	193.	N.A.	N.A.	54.	13:43	2935.	7.
22	1966.	N.A.	N.A.	277.	12:29	2928.	67.
23	1934.	N.A.	N.A.	269.	12:17	2922.	66.
24	1616.	N.A.	N.A.	246.	11:19	2916.	55.
25	2126.	N.A.	N.A.	300.	12:33	2913.	73.
26	1425.	N.A.	N.A.	283.	10:46	2907.	49.
27	2035.	N.A.	N.A.	331.	12:12	2902.	70.
28	*	N.A.	N.A.	*	*:*	2897.	*
29	2267.	N.A.	N.A.	300.	12: 1	2891.	78.
30	2033.	N.A.	N.A.	289.	11:45	2886.	70.
31	1114.	N.A.	N.A.	257.	13:43	2881.	39.
MEAN	1524.	N.A.	N.A.			2973.	
STANDARD DEVIATION	668.	N.A.	N.A.			61.	

ENVIRONMENTAL SUMMARY REPORT

SITE: M. F. SMITH ASSOCIATES
JAMESTOWN, RHODE ISLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 160

LATITUDE: 41.44 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.26 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 110 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	50.	51.	49.	56.	13:32	46.	4: 7	60.
2	51.	55.	47.	59.	13:46	44.	21:51	69.
3	54.	58.	50.	62.	14:56	43.	5: 3	60.
4	57.	64.	53.	69.	11:55	47.	21:14	60.
5	53.	57.	49.	62.	8:50	46.	1:57	62.
6	56.	62.	50.	71.	11:50	45.	3:23	59.
7	51.	53.	49.	60.	15:54	47.	3:54	69.
8	49.	49.	49.	50.	9:46	48.	5:30	63.
9	52.	56.	47.	62.	14:37	40.	4:51	67.
10	53.	59.	47.	65.	13:29	41.	0: 3	64.
11	53.	56.	49.	59.	9:55	48.	3:47	59.
12	57.	59.	55.	68.	12:41	50.	1: 8	61.
13	59.	62.	55.	73.	15: 9	52.	3:36	58.
14	62.	67.	57.	74.	10:20	52.	22:32	65.
15	57.	61.	53.	67.	13:44	49.	1:17	66.
16	58.	64.	53.	70.	12:34	48.	4:50	61.
17	57.	64.	51.	71.	9:58	45.	4:22	68.
18	56.	57.	54.	59.	9:47	52.	1:37	66.
19	61.	64.	58.	71.	11:49	54.	4: 5	61.
20	62.	67.	58.	71.	11:19	51.	22:47	69.
21	52.	52.	52.	55.	23:41	50.	5:38	64.
22	69.	75.	62.	82.	14:58	53.	4:39	63.
23	68.	74.	62.	82.	11: 3	54.	23:45	64.
24	61.	67.	56.	77.	12:55	54.	3:35	70.
25	63.	71.	55.	79.	12: 1	52.	21:26	64.
26	58.	63.	54.	70.	15:45	46.	4:49	69.
27	62.	68.	52.	73.	13:58	46.	1:42	68.
28	50.	*	50.	51.	23:34	50.	23:50	64.
29	59.	65.	52.	71.	10:47	47.	4:16	65.
30	60.	66.	51.	70.	12:11	45.	3:23	67.
31	62.	64.	59.	69.	10:25	56.	0:17	69.
MEAN	57.	62.	53.					64.
STANDARD DEVIATION	5.1	6.4	4.1					3.6

ENVIRONMENTAL SUMMARY REPORT

SITE: SUMMERWOOD
 OLD SAYBROOK, CONNECTICUT

REPORT PERIOD: 80/ 5
 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	56.	58.	54.	63.	15:31	49.	0: 3	60.
2	53.	58.	49.	65.	12:46	44.	21:30	61.
3	60.	67.	52.	77.	14: 7	43.	4:42	62.
4	64.	70.	59.	75.	14: 2	49.	23:36	65.
5	57.	62.	52.	68.	14: 5	47.	5: 6	67.
6	56.	62.	51.	71.	13:42	45.	4:49	71.
7	53.	55.	51.	65.	11:39	49.	19:43	69.
8	48.	49.	48.	51.	8:42	45.	21:29	67.
9	52.	58.	46.	66.	12:47	37.	4:47	65.
10	55.	65.	46.	70.	13:41	36.	1:57	66.
11	55.	58.	52.	63.	13:52	45.	4:27	66.
12	61.	65.	57.	76.	12:17	51.	1: 5	66.
13	62.	66.	59.	77.	13:36	53.	2:45	67.
14	64.	71.	58.	76.	13:14	53.	3:28	68.
15	59.	66.	54.	73.	12:59	48.	3:45	67.
16	59.	67.	52.	73.	12:45	41.	3:25	68.
17	58.	66.	51.	76.	8:46	42.	3:53	68.
18	56.	57.	55.	60.	7:42	53.	2: 6	68.
19	65.	68.	61.	79.	13:29	55.	4: 3	69.
20	63.	67.	59.	73.	9: 4	52.	23:56	65.
21	55.	54.	55.	58.	17:53	51.	0: 7	68.
22	67.	75.	60.	82.	12:43	53.	2:24	70.
23	72.	82.	63.	90.	12:26	53.	3:33	68.
24	63.	69.	58.	74.	13:56	55.	23:59	68.
25	67.	77.	58.	85.	10: 2	50.	21:52	68.
26	62.	70.	54.	77.	10:24	45.	3:17	66.
27	62.	71.	53.	78.	10:40	41.	4: 0	68.
28	64.	73.	55.	79.	13:54	47.	23:34	69.
29	59.	66.	52.	73.	9:10	46.	0:11	72.
30	60.	67.	54.	76.	9:47	45.	4: 0	73.
31	64.	68.	61.	76.	10:56	57.	0:10	70.
MEAN	60.	65.	54.					67.
STANDARD DEVIATION	5.2	7.1	4.4					2.8

ENVIRONMENTAL SUMMARY REPORT

SITE: SUN TECH HOMES
CHESTER, NEW YORK

REPORT PERIOD: 80/ 5
SITE NUMBER: 71

LATITUDE: 41.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 74.00 DEG WEST PYRANOMETER TILT: 60 DEG 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	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1125.	N.A.	N.A.	245.	9:22	2573.	44.
2	1552.	N.A.	N.A.	278.	11: 1	2558.	61.
3	1408.	N.A.	N.A.	278.	12: 4	2545.	55.
4	1632.	N.A.	N.A.	254.	12:10	2533.	64.
5	1788.	N.A.	N.A.	251.	11:22	2519.	71.
6	1323.	N.A.	N.A.	254.	11:40	2504.	53.
7	1731.	N.A.	N.A.	251.	11:23	2493.	69.
8	1053.	N.A.	N.A.	207.	11:33	2479.	42.
9	1286.	N.A.	N.A.	304.	11:36	2465.	52.
10	*	N.A.	N.A.	*	*:*	2454.	*
11	*	N.A.	N.A.	*	*:*	2443.	*
12	640.	N.A.	N.A.	195.	9:43	2430.	26.
13	689.	N.A.	N.A.	210.	13:49	2417.	29.
14	1630.	N.A.	N.A.	269.	12:56	2407.	68.
15	*	N.A.	N.A.	*	*:*	2394.	*
16	1782.	N.A.	N.A.	257.	11:11	2382.	75.
17	1722.	N.A.	N.A.	275.	11:22	2373.	73.
18	151.	N.A.	N.A.	33.	9:56	2361.	6.
19	1237.	N.A.	N.A.	266.	11:52	2352.	53.
20	*	N.A.	N.A.	*	*:*	2341.	*
21	119.	N.A.	N.A.	33.	10: 0	2330.	5.
22	1525.	N.A.	N.A.	219.	11:35	2320.	66.
23	1383.	N.A.	N.A.	198.	12: 8	2312.	60.
24	1192.	N.A.	N.A.	207.	11:28	2302.	52.
25	1701.	N.A.	N.A.	233.	11: 6	2292.	74.
26	1740.	N.A.	N.A.	251.	11:31	2283.	76.
27	1736.	N.A.	N.A.	248.	11:20	2276.	76.
28	1841.	N.A.	N.A.	242.	11:14	2267.	81.
29	1715.	N.A.	N.A.	239.	11: 6	2261.	76.
30	*	N.A.	N.A.	*	*:*	2253.	*
31	765.	N.A.	N.A.	222.	11:48	2245.	34.
MEAN	1326.	N.A.	N.A.			2392.	
STANDARD DEVIATION	494.	N.A.	N.A.			100.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SUN TECH HOMES
CHESTER, NEW YORK

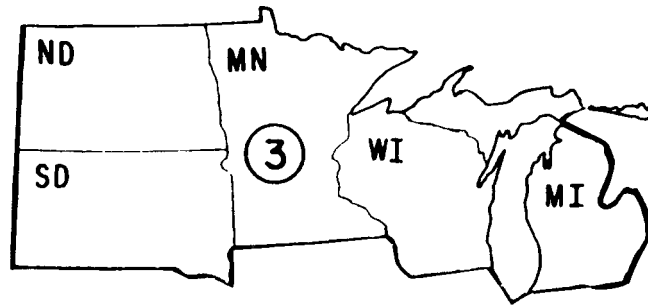
REPORT PERIOD: 80/ 5
SITE NUMBER: 71

LATITUDE: 41.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 74.00 DEG WEST PYRANOMETER TILT: 60 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	61.	63.	57.	71.	16:34	51.	22:56	55.
2	62.	68.	56.	79.	16:0	51.	0:42	56.
3	66.	74.	58.	84.	16:14	51.	4:36	56.
4	62.	69.	56.	74.	14:39	48.	23:54	57.
5	67.	78.	58.	87.	14:18	45.	4:53	57.
6	70.	82.	60.	92.	11:40	50.	4:44	56.
7	65.	72.	54.	81.	13:31	53.	4:38	59.
8	60.	63.	54.	72.	15:17	49.	7:17	57.
9	52.	58.	42.	63.	15:52	37.	4:18	58.
10	*	*	*	*	*:*	*	*:*	*
11	*	*	*	*	*:*	*	*:*	*
12	65.	69.	60.	78.	16:50	52.	2:47	58.
13	70.	74.	67.	84.	16:50	60.	23:41	58.
14	64.	69.	58.	74.	11:20	55.	4:50	61.
15	51.	59.	50.	60.	16:36	41.	23:59	58.
16	58.	68.	49.	83.	17:3	37.	3:6	60.
17	62.	72.	53.	83.	14:12	39.	3:54	64.
18	60.	60.	60.	63.	15:9	57.	6:50	63.
19	69.	75.	60.	81.	13:33	57.	1:44	60.
20	61.	*	61.	61.	22:57	60.	23:58	62.
21	57.	56.	57.	60.	0:3	54.	7:36	61.
22	69.	78.	62.	88.	16:1	51.	3:45	61.
23	74.	84.	65.	94.	14:27	54.	4:24	62.
24	76.	86.	68.	98.	15:33	59.	4:32	65.
25	69.	76.	62.	87.	14:18	50.	23:57	61.
26	59.	67.	51.	72.	14:59	40.	4:29	62.
27	59.	68.	50.	75.	16:33	40.	4:51	62.
28	60.	70.	51.	79.	14:53	41.	3:9	63.
29	65.	73.	57.	86.	15:54	53.	23:59	63.
30	63.	71.	57.	78.	13:45	48.	3:27	63.
31	70.	76.	66.	89.	14:28	62.	2:18	63.
MEAN	64.	71.	57.					60.
STANDARD DEVIATION	6.0	7.6	5.8					2.8

ZONE 3



ENVIRONMENTAL SUMMARY REPORT

SITE: BASIN ELECTRIC
BISMARCK, NORTH DAKOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 174

LATITUDE: 46.70 DEG NORTH AZIMUTH: 15 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 100.80 DEG WEST PYRANOMETER TILT: 67 DEG ALTITUDE: 1850 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE TIME	INSOLATION	EXT INS	
				BTU/HR/FT2 HR:MN	BTU/FT2	PERCENT	
1	1255.	N.A.	N.A.	280.	12:28	2574.	49.
2	1891.	N.A.	N.A.	280.	12:39	2559.	74.
3	1904.	N.A.	N.A.	273.	11:58	2547.	75.
4	1479.	N.A.	N.A.	298.	12:15	2534.	58.
5	1871.	N.A.	N.A.	270.	12:21	2517.	74.
6	2002.	N.A.	N.A.	286.	12:33	2505.	80.
7	1003.	N.A.	N.A.	170.	16: 7	2494.	40.
8	1945.	N.A.	N.A.	276.	12:18	2480.	78.
9	1238.	N.A.	N.A.	308.	11:20	2466.	50.
10	1855.	N.A.	N.A.	289.	12:27	2455.	76.
11	1904.	N.A.	N.A.	276.	12:43	2442.	78.
12	1410.	N.A.	N.A.	248.	11: 9	2428.	58.
13	1361.	N.A.	N.A.	292.	13:10	2418.	56.
14	1531.	N.A.	N.A.	276.	12:20	2405.	64.
15	1545.	N.A.	N.A.	302.	14: 4	2395.	65.
16	1755.	N.A.	N.A.	267.	12:48	2383.	74.
17	1490.	N.A.	N.A.	280.	12:36	2371.	63.
18	1481.	N.A.	N.A.	258.	12:59	2362.	63.
19	1726.	N.A.	N.A.	251.	12:38	2351.	73.
20	1709.	N.A.	N.A.	267.	12:39	2340.	73.
21	1751.	N.A.	N.A.	251.	12:36	2331.	75.
22	1797.	N.A.	N.A.	264.	12:47	2321.	77.
23	1802.	N.A.	N.A.	264.	12:40	2313.	78.
24	1755.	N.A.	N.A.	254.	12:23	2303.	76.
25	1396.	N.A.	N.A.	261.	12:33	2293.	61.
26	1737.	N.A.	N.A.	264.	12:38	2284.	76.
27	1758.	N.A.	N.A.	261.	12:38	2277.	77.
28	1228.	N.A.	N.A.	261.	13:35	2268.	54.
29	801.	N.A.	N.A.	195.	10:40	2260.	35.
30	1044.	N.A.	N.A.	207.	10:35	2254.	46.
31	909.	N.A.	N.A.	251.	11:24	2244.	41.
MEAN	1559.	N.A.	N.A.			2393.	
STANDARD DEVIATION	327.	N.A.	N.A.			100.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BASIN ELECTRIC
BISMARCK, NORTH DAKOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 174

LATITUDE: 46.70 DEG NORTH AZIMUTH: 15 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 100.80 DEG WEST PYRANOMETER TILT: 67 DEG ALTITUDE: 1850 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.	74.	64.	87.	14:31	52.	3:19	N.A.
2	70.	77.	65.	91.	14:47	48.	5:5	N.A.
3	71.	77.	65.	89.	16:35	49.	4:3	N.A.
4	70.	78.	64.	93.	13:57	50.	5:34	N.A.
5	63.	67.	59.	76.	16:37	47.	5:30	N.A.
6	50.	56.	46.	61.	15:34	32.	23:46	N.A.
7	38.	41.	35.	51.	17:6	25.	4:55	N.A.
8	48.	54.	42.	67.	15:46	26.	4:45	N.A.
9	54.	60.	49.	76.	15:31	32.	4:56	N.A.
10	50.	53.	48.	59.	15:50	37.	23:39	N.A.
11	51.	57.	46.	68.	16:24	30.	2:40	N.A.
12	52.	58.	47.	67.	14:32	37.	4:51	N.A.
13	46.	49.	44.	60.	16:57	35.	5:32	N.A.
14	51.	56.	46.	73.	16:46	31.	5:13	N.A.
15	59.	63.	55.	77.	17:41	41.	0:17	N.A.
16	62.	67.	57.	76.	14:24	47.	1:46	N.A.
17	62.	67.	57.	79.	14:7	45.	4:57	N.A.
18	67.	73.	62.	86.	15:34	45.	4:41	N.A.
19	70.	76.	65.	89.	15:34	48.	5:31	N.A.
20	75.	80.	70.	93.	16:44	51.	4:55	N.A.
21	81.	87.	75.	100.	15:32	63.	5:14	N.A.
22	80.	85.	75.	95.	13:14	62.	5:8	N.A.
23	75.	79.	72.	87.	16:19	63.	4:56	N.A.
24	75.	79.	71.	88.	15:13	59.	5:0	N.A.
25	74.	78.	70.	88.	16:28	59.	3:40	N.A.
26	74.	80.	69.	91.	17:10	54.	3:34	N.A.
27	72.	83.	62.	93.	15:18	48.	4:43	N.A.
28	68.	75.	61.	91.	15:59	56.	1:35	N.A.
29	64.	67.	61.	74.	18:56	54.	3:7	N.A.
30	65.	70.	61.	80.	15:50	52.	4:54	N.A.
31	61.	66.	58.	75.	13:26	51.	4:49	N.A.
MEAN	63.	69.	59.					N.A.
STANDARD DEVIATION	11.0	11.6	10.6					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: FIRST BAPTIST CHURCH
 ABERDEEN, SOUTH DAKOTA

REPORT PERIOD: 80/ 5
 SITE NUMBER: 153

LATITUDE: 45.27 DEG NORTH AZIMUTH: 0 DEG
 LONGITUDE: 98.26 DEG WEST PYRANOMETER TILT: 58 DEG TIME ZONE: CENTRAL
 ALTITUDE: 1296 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	2151.	N.A.	N.A.	333.	12:51	2802.	77.
2	2107.	N.A.	N.A.	316.	12:16	2789.	76.
3	2328.	N.A.	N.A.	313.	12: 9	2777.	84.
4	2334.	N.A.	N.A.	319.	11:58	2768.	84.
5	2041.	N.A.	N.A.	356.	11:56	2756.	74.
6	2438.	N.A.	N.A.	326.	12: 3	2744.	89.
7	1215.	N.A.	N.A.	316.	12: 1	2732.	44.
8	2450.	N.A.	N.A.	319.	11:40	2723.	90.
9	2055.	N.A.	N.A.	326.	11:45	2711.	76.
10	1837.	N.A.	N.A.	353.	12: 1	2703.	68.
11	2292.	N.A.	N.A.	346.	11: 2	2691.	85.
12	945.	N.A.	N.A.	155.	8: 9	2680.	35.
13	1432.	N.A.	N.A.	313.	11:47	2669.	54.
14	2322.	N.A.	N.A.	343.	11:33	2659.	87.
15	2276.	N.A.	N.A.	350.	12:31	2651.	86.
16	1572.	N.A.	N.A.	252.	11:41	2641.	60.
17	978.	N.A.	N.A.	168.	10: 7	2631.	37.
18	2334.	N.A.	N.A.	323.	12:20	2621.	89.
19	2122.	N.A.	N.A.	323.	12:25	2611.	81.
20	2368.	N.A.	N.A.	313.	12:23	2604.	91.
21	2373.	N.A.	N.A.	316.	12:27	2595.	91.
22	2415.	N.A.	N.A.	319.	12: 5	2589.	93.
23	2339.	N.A.	N.A.	309.	12:12	2580.	91.
24	2162.	N.A.	N.A.	313.	12:42	2571.	84.
25	1787.	N.A.	N.A.	299.	11:12	2563.	70.
26	1778.	N.A.	N.A.	319.	12:25	2555.	70.
27	2459.	N.A.	N.A.	330.	13:24	2547.	97.
28	1517.	N.A.	N.A.	266.	11: 1	2540.	60.
29	1676.	N.A.	N.A.	326.	13:45	2535.	66.
30	1220.	N.A.	N.A.	262.	12:32	2528.	48.
31	620.	N.A.	N.A.	272.	13:38	2521.	25.
MEAN	1934.	N.A.	N.A.			2648.	
STANDARD DEVIATION	515.	N.A.	N.A.			86.	

ENVIRONMENTAL SUMMARY REPORT

SITE: FIRST BAPTIST CHURCH
 ABERDEEN, SOUTH DAKOTA

REPORT PERIOD: 80/ 5
 SITE NUMBER: 153

LATITUDE: 45.27 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
 LONGITUDE: 98.26 DEG WEST PYRANOMETER TILT: 58 DEG ALTITUDE: 1296 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.	83.	64.	93.	13:12	54.	5:39	88.
2	68.	78.	59.	89.	12:16	45.	5:15	75.
3	71.	81.	61.	94.	13: 2	47.	5:56	94.
4	69.	80.	60.	95.	14:30	43.	5:50	69.
5	65.	72.	59.	80.	14:57	48.	23:52	71.
6	54.	63.	47.	74.	14:43	35.	23:51	70.
7	40.	44.	35.	51.	12: 1	28.	5: 5	66.
8	48.	58.	40.	68.	15:13	29.	5:11	75.
9	55.	64.	48.	73.	13: 5	33.	2:31	78.
10	52.	57.	48.	66.	14:30	35.	23:55	70.
11	50.	58.	42.	70.	14:33	30.	2:14	63.
12	51.	58.	46.	62.	11: 5	33.	5: 8	60.
13	51.	57.	45.	66.	16:35	38.	23:54	68.
14	52.	63.	43.	76.	14:18	30.	4: 5	71.
15	58.	67.	50.	78.	14: 2	36.	4:53	69.
16	57.	63.	52.	69.	11:51	45.	4:34	73.
17	57.	61.	54.	66.	15:32	48.	5:24	71.
18	67.	77.	58.	87.	14:55	42.	5:19	66.
19	65.	76.	55.	86.	11:37	39.	5:19	64.
20	67.	76.	59.	85.	14:26	44.	4:18	69.
21	72.	80.	64.	90.	16: 0	49.	4:54	66.
22	73.	81.	67.	89.	15:59	57.	4:42	73.
23	72.	80.	64.	87.	14:46	50.	4:49	75.
24	73.	80.	67.	86.	12:32	58.	3:54	67.
25	74.	82.	67.	90.	16:32	57.	22:28	66.
26	72.	79.	65.	88.	14:22	59.	23:48	79.
27	73.	81.	65.	94.	13: 8	49.	5: 8	70.
28	72.	78.	67.	87.	16:10	60.	23:48	70.
29	66.	74.	60.	87.	14:22	57.	21:31	72.
30	64.	67.	61.	77.	18:21	53.	23:46	74.
31	58.	61.	56.	69.	13:44	49.	4:24	72.
MEAN	63.	70.	56.					71.
STANDARD DEVIATION	9.5	10.4	9.1					6.7

ENVIRONMENTAL SUMMARY REPORT

SITE: HOUSTON CONSTRUCTION CO.
EDEN PRAIRIE, MINNESOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 57

LATITUDE: 45.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 93.00 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 809 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	1912.	N.A.	N.A.	269.	12:24	2724.	70.
2	1869.	N.A.	N.A.	264.	12:24	2710.	69.
3	1646.	N.A.	N.A.	278.	12:50	2697.	61.
4	1670.	N.A.	N.A.	264.	13: 9	2686.	62.
5	1611.	N.A.	N.A.	290.	11:33	2673.	60.
6	1885.	N.A.	N.A.	275.	11:57	2661.	71.
7	899.	N.A.	N.A.	240.	12:32	2648.	34.
8	1650.	N.A.	N.A.	298.	13:20	2638.	63.
9	1863.	N.A.	N.A.	266.	12:14	2626.	71.
10	319.	N.A.	N.A.	165.	11:32	2616.	12.
11	1611.	N.A.	N.A.	295.	13:29	2604.	62.
12	1100.	N.A.	N.A.	284.	12:26	2592.	42.
13	1124.	N.A.	N.A.	287.	11: 6	2581.	44.
14	1027.	N.A.	N.A.	229.	10: 8	2572.	40.
15	1842.	N.A.	N.A.	258.	12: 6	2560.	72.
16	1020.	N.A.	N.A.	171.	12:51	2549.	40.
17	196.	N.A.	N.A.	64.	9:11	2539.	8.
18	546.	N.A.	N.A.	125.	13:16	2531.	22.
19	1801.	N.A.	N.A.	252.	11:45	2520.	71.
20	1760.	N.A.	N.A.	266.	11:56	2513.	70.
21	1825.	N.A.	N.A.	261.	11:58	2503.	73.
22	1807.	N.A.	N.A.	252.	11:46	2493.	72.
23	1799.	N.A.	N.A.	252.	12: 7	2484.	72.
24	1656.	N.A.	N.A.	243.	12:42	2475.	67.
25	1606.	N.A.	N.A.	258.	12:21	2469.	65.
26	1293.	N.A.	N.A.	264.	12:34	2460.	53.
27	1164.	N.A.	N.A.	246.	11: 9	2452.	47.
28	1413.	N.A.	N.A.	249.	12:35	2444.	58.
29	827.	N.A.	N.A.	220.	11:15	2436.	34.
30	553.	N.A.	N.A.	211.	12:14	2429.	23.
31	1520.	N.A.	N.A.	252.	12:35	2424.	63.
MEAN	1381.	N.A.	N.A.			2558.	
STANDARD DEVIATION	499.	N.A.	N.A.			92.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HOUSTON CONSTRUCTION CO.
EDEN PRAIRIE, MINNESOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 57

LATITUDE: 45.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 93.00 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 809 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	66.	74.	59.	82.	15:41	47.	5:28	62.
2	66.	74.	59.	83.	15:30	48.	5:55	57.
3	69.	78.	60.	88.	15:51	49.	5:16	57.
4	71.	80.	63.	88.	15:33	53.	4:55	52.
5	65.	68.	61.	73.	13: 4	55.	23:57	62.
6	52.	56.	48.	60.	12:50	39.	23:44	48.
7	43.	46.	41.	49.	13:20	38.	0:27	54.
8	48.	51.	45.	61.	16: 0	41.	2:56	49.
9	56.	63.	50.	74.	15:32	34.	5:29	62.
10	55.	56.	53.	66.	11:48	44.	23:53	50.
11	49.	54.	45.	61.	15:58	40.	4:20	54.
12	53.	60.	47.	67.	13:41	39.	2:18	59.
13	50.	53.	47.	58.	14:33	43.	23:22	53.
14	51.	57.	45.	61.	10:56	40.	5:25	56.
15	54.	62.	47.	69.	15:42	35.	5:21	63.
16	56.	63.	51.	68.	13:12	42.	3:15	54.
17	54.	55.	53.	58.	11:14	50.	22:37	51.
18	55.	58.	53.	65.	17:37	48.	23:56	52.
19	63.	70.	56.	79.	15:35	44.	4:44	58.
20	67.	74.	61.	79.	14:36	51.	5: 0	59.
21	71.	78.	65.	85.	15:52	55.	4:51	63.
22	73.	80.	67.	86.	16: 2	58.	4:18	52.
23	73.	80.	67.	85.	13:43	58.	4:55	51.
24	72.	78.	67.	84.	15:49	57.	4:47	52.
25	76.	81.	71.	87.	15:57	63.	4:53	56.
26	73.	77.	70.	86.	13:49	65.	5:22	52.
27	75.	80.	71.	88.	16:35	63.	4:50	60.
28	76.	84.	70.	91.	16:14	63.	4:57	61.
29	68.	71.	65.	80.	11:36	62.	14: 0	63.
30	63.	65.	62.	68.	12:20	60.	23:42	56.
31	67.	71.	63.	76.	13:50	54.	4:57	54.
MEAN	62.	68.	57.					56.
STANDARD DEVIATION	9.7	10.8	9.1					4.6

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 15

LATITUDE: 43.90 DEG NORTH AZIMUTH: -19 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 103.50 DEG WEST PYRANOMETER TILT: 46 DEG 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	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	879.	N.A.	N.A.	357.	11:30	3158.	28.
2	1191.	N.A.	N.A.	308.	12:55	3151.	38.
3	1786.	N.A.	N.A.	343.	13: 8	3145.	57.
4	1052.	N.A.	N.A.	336.	11:14	3138.	34.
5	1424.	N.A.	N.A.	318.	11:49	3132.	45.
6	1915.	N.A.	N.A.	318.	12:20	3125.	61.
7	2172.	N.A.	N.A.	308.	12: 1	3119.	70.
8	2195.	N.A.	N.A.	315.	12:22	3113.	71.
9	1060.	N.A.	N.A.	336.	12:48	3106.	34.
10	179.	N.A.	N.A.	42.	11:53	3100.	6.
11	796.	N.A.	N.A.	304.	11:21	3094.	26.
12	*	N.A.	N.A.	*	*:*	3088.	*
13	1479.	N.A.	N.A.	339.	13:46	3082.	48.
14	1353.	N.A.	N.A.	385.	13: 4	3076.	44.
15	862.	N.A.	N.A.	231.	9:28	3070.	28.
16	598.	N.A.	N.A.	175.	13:52	3064.	20.
17	618.	N.A.	N.A.	161.	9: 9	3058.	20.
18	1962.	N.A.	N.A.	339.	11:53	3052.	64.
19	1276.	N.A.	N.A.	259.	13:19	3047.	42.
20	1749.	N.A.	N.A.	297.	12:35	3041.	57.
21	2068.	N.A.	N.A.	290.	12:11	3036.	68.
22	2078.	N.A.	N.A.	294.	12:19	3030.	69.
23	2064.	N.A.	N.A.	297.	12:54	3025.	68.
24	845.	N.A.	N.A.	203.	14:10	3020.	28.
25	2150.	N.A.	N.A.	304.	11:46	3015.	71.
26	2225.	N.A.	N.A.	325.	12:29	3010.	74.
27	1951.	N.A.	N.A.	301.	13: 1	3006.	65.
28	1338.	N.A.	N.A.	325.	12: 8	3001.	45.
29	449.	N.A.	N.A.	192.	9:18	2997.	15.
30	791.	N.A.	N.A.	294.	11: 6	2992.	26.
31	180.	N.A.	N.A.	35.	13:42	2988.	6.
MEAN	1356.	N.A.	N.A.			3067.	
STANDARD DEVIATION	642.	N.A.	N.A.			52.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 15

LATITUDE: 43.90 DEG NORTH AZIMUTH: -19 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 103.50 DEG WEST PYRANOMETER TILT: 46 DEG ALTITUDE: 5265 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	53.	59.	47.	68.	11:30	43.	1:32	N.A.
2	57.	65.	49.	74.	12:55	44.	1:43	N.A.
3	59.	68.	50.	80.	14:28	46.	4:46	N.A.
4	57.	62.	51.	82.	11:14	47.	13:52	N.A.
5	55.	60.	49.	68.	15:54	45.	23:38	N.A.
6	56.	63.	48.	73.	9:35	37.	23:56	N.A.
7	41.	50.	33.	61.	14:25	26.	4:17	N.A.
8	49.	60.	37.	67.	12:12	25.	1:53	N.A.
9	55.	62.	49.	81.	12:48	46.	1:25	N.A.
10	39.	36.	41.	47.	0:9	34.	13:8	N.A.
11	40.	45.	35.	54.	14:38	31.	2:6	N.A.
12	35.	33.	36.	38.	0:12	32.	6:10	N.A.
13	44.	50.	38.	65.	13:51	35.	17:36	N.A.
14	47.	52.	41.	64.	12:54	38.	5:10	N.A.
15	47.	52.	42.	62.	9:39	38.	0:3	N.A.
16	46.	49.	43.	60.	14:2	39.	23:22	N.A.
17	43.	45.	41.	51.	13:46	37.	4:42	N.A.
18	55.	63.	48.	73.	12:57	45.	3:22	N.A.
19	58.	67.	50.	75.	13:8	46.	1:24	N.A.
20	67.	75.	58.	83.	12:40	53.	0:3	N.A.
21	74.	85.	64.	91.	13:42	57.	0:43	N.A.
22	73.	84.	63.	92.	11:41	58.	23:8	N.A.
23	67.	76.	59.	82.	13:53	54.	4:28	N.A.
24	63.	66.	60.	72.	16:34	53.	4:50	N.A.
25	57.	62.	53.	69.	14:47	43.	4:55	N.A.
26	59.	66.	52.	73.	15:35	48.	4:18	N.A.
27	68.	78.	58.	87.	14:9	51.	3:30	N.A.
28	67.	73.	60.	82.	6:53	54.	4:7	N.A.
29	53.	54.	51.	69.	8:51	45.	14:55	N.A.
30	51.	54.	48.	64.	15:34	45.	3:38	N.A.
31	48.	49.	46.	53.	1:53	43.	23:47	N.A.
MEAN	54.	60.	48.					N.A.
STANDARD DEVIATION	10.2	12.7	8.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 80/ 5
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	21.	22.	20.	23.	15:51	18.	1:0
2	21.	21.	20.	23.	11:35	19.	17:45
3	20.	20.	20.	21.	19:26	18.	17:45
4	22.	22.	21.	26.	15:17	19.	4:9
5	24.	25.	23.	28.	15:16	21.	5:41
6	20.	20.	19.	23.	0:4	14.	23:13
7	15.	17.	14.	18.	15:24	13.	6:46
8	15.	15.	15.	20.	23:55	10.	6:25
9	22.	23.	21.	25.	15:18	19.	0:32
10	22.	23.	22.	24.	4:14	18.	23:58
11	19.	19.	18.	20.	16:39	17.	6:12
12	19.	20.	19.	22.	16:26	18.	2:42
13	18.	18.	17.	21.	17:15	14.	5:35
14	20.	21.	19.	23.	15:57	17.	3:55
15	23.	25.	22.	29.	16:59	19.	4:29
16	27.	27.	26.	29.	20:48	25.	23:54
17	24.	24.	23.	26.	16:37	21.	23:49
18	21.	22.	21.	24.	15:43	19.	4:48
19	22.	22.	22.	25.	19:9	20.	5:29
20	23.	24.	22.	27.	16:11	20.	5:49
21	22.	23.	21.	26.	15:20	20.	2:56
22	24.	26.	21.	30.	13:49	19.	6:11
23	30.	32.	28.	35.	12:22	22.	0:33
24	33.	35.	30.	37.	15:41	23.	3:41
25	21.	18.	24.	38.	1:11	11.	19:57
26	11.	12.	10.	14.	11:19	8.	21:27
27	20.	23.	18.	32.	21:33	9.	0:13
28	23.	25.	21.	27.	14:54	18.	22:27
29	23.	24.	22.	27.	15:22	18.	0:51
30	29.	31.	27.	34.	16:1	24.	5:19
31	30.	32.	28.	36.	14:51	25.	2:51
MEAN	22.	23.	21.				
STANDARD DEVIATION	4.	5.	4.				

ENVIRONMENTAL SUMMARY REPORT

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 80/ 5
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

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	1914.	N.A.	N.A.	281.	11:41	2859.	67.
2	1693.	N.A.	N.A.	281.	12: 7	2848.	59.
3	1683.	N.A.	N.A.	300.	12:13	2836.	59.
4	1470.	N.A.	N.A.	284.	13: 7	2828.	52.
5	1558.	N.A.	N.A.	275.	11:26	2816.	55.
6	1774.	N.A.	N.A.	275.	12: 4	2805.	63.
7	817.	N.A.	N.A.	228.	9:19	2797.	29.
8	1742.	N.A.	N.A.	281.	11: 0	2786.	63.
9	1883.	N.A.	N.A.	272.	11:39	2775.	68.
10	856.	N.A.	N.A.	259.	11: 7	2764.	31.
11	1229.	N.A.	N.A.	228.	9:47	2753.	45.
12	1362.	N.A.	N.A.	281.	11: 0	2746.	50.
13	1179.	N.A.	N.A.	322.	11:59	2736.	43.
14	818.	N.A.	N.A.	206.	9:57	2725.	30.
15	1816.	N.A.	N.A.	297.	12:11	2716.	67.
16	503.	N.A.	N.A.	97.	11: 5	2706.	19.
17	83.	N.A.	N.A.	37.	14:17	2696.	3.
18	189.	N.A.	N.A.	50.	15:22	2690.	7.
19	1725.	N.A.	N.A.	275.	11:54	2680.	64.
20	1511.	N.A.	N.A.	284.	12:59	2672.	57.
21	1848.	N.A.	N.A.	265.	12: 8	2665.	69.
22	1931.	N.A.	N.A.	262.	12: 1	2657.	73.
23	1389.	N.A.	N.A.	250.	13: 4	2649.	52.
24	1181.	N.A.	N.A.	234.	12:57	2640.	45.
25	1657.	N.A.	N.A.	259.	12: 9	2633.	63.
26	1171.	N.A.	N.A.	240.	11:30	2625.	45.
27	1596.	N.A.	N.A.	262.	11:46	2618.	61.
28	1463.	N.A.	N.A.	265.	12:43	2613.	56.
29	640.	N.A.	N.A.	219.	13:51	2606.	25.
30	759.	N.A.	N.A.	253.	13:31	2600.	29.
31	1223.	N.A.	N.A.	281.	12: 6	2593.	47.
MEAN	1312.	N.A.	N.A.			2714.	
STANDARD DEVIATION	509.	N.A.	N.A.			82.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 167

LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 94.25 DEG WEST PYRANOMETER TILT: 55 DEG 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	65.	73.	58.	82.	15:15	43.	5: 1	78.
2	66.	76.	57.	84.	15:19	43.	5: 6	78.
3	67.	78.	57.	86.	13:54	42.	5:12	78.
4	70.	79.	62.	90.	14:17	50.	5:23	77.
5	63.	71.	57.	76.	13: 2	45.	23:32	77.
6	52.	58.	46.	63.	13:46	41.	4:20	76.
7	42.	46.	39.	48.	12:21	32.	4:53	74.
8	46.	50.	42.	58.	17:24	35.	23:49	74.
9	56.	64.	48.	74.	16: 4	31.	2:24	75.
10	56.	60.	52.	71.	14: 3	42.	23:50	74.
11	48.	53.	43.	62.	16: 1	36.	2:41	73.
12	53.	62.	44.	71.	13:45	36.	2: 6	74.
13	48.	52.	45.	58.	14:34	37.	23:22	74.
14	51.	57.	45.	65.	18: 3	35.	1: 9	74.
15	55.	62.	49.	70.	14:13	34.	5: 4	74.
16	54.	57.	50.	61.	15: 5	46.	3:48	73.
17	50.	50.	51.	52.	22:43	48.	7:58	71.
18	52.	53.	51.	59.	18:34	46.	23:54	71.
19	57.	64.	50.	73.	15:28	39.	4:58	73.
20	63.	71.	56.	78.	16:48	43.	4:37	75.
21	68.	76.	60.	84.	16:18	46.	4:34	76.
22	71.	79.	64.	87.	15:45	51.	5:10	77.
23	71.	79.	64.	85.	14:51	55.	4:48	77.
24	73.	78.	68.	85.	14:28	59.	0: 4	76.
25	76.	81.	71.	89.	15: 5	61.	4:30	77.
26	74.	79.	69.	86.	11:41	64.	5:38	77.
27	77.	82.	72.	92.	16:39	66.	4:24	77.
28	78.	85.	69.	93.	13:57	62.	4:59	79.
29	65.	70.	61.	79.	14:45	57.	23:49	77.
30	62.	65.	59.	73.	14:19	55.	4: 5	76.
31	66.	70.	61.	76.	13:26	53.	4:43	76.
MEAN	61.	67.	55.					75.
STANDARD DEVIATION	10.1	11.2	9.3					2.0

ENVIRONMENTAL SUMMARY REPORT

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 80/ 5
SITE NUMBER: 167

LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 94.25 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 1150 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	171.	4.	168.	7.	17.	173.	13:17
2	185.	2.	169.	3.	17.	205.	14: 4
3	158.	2.	151.	4.	13.	174.	14:26
4	119.	3.	120.	6.	17.	122.	9:29
5	126.	9.	133.	14.	24.	142.	13:18
6	129.	10.	133.	14.	27.	135.	14:28
7	122.	10.	123.	12.	20.	114.	14:13
8	122.	6.	123.	10.	20.	125.	12:36
9	16.	8.	29.	10.	21.	23.	14:40
10	*	13.	*	15.	30.	*	14:46
11	116.	6.	114.	8.	17.	103.	12:38
12	208.	6.	223.	7.	23.	206.	16:58
13	133.	8.	127.	11.	17.	143.	2:39
14	79.	3.	40.	4.	12.	183.	21:47
15	223.	3.	198.	3.	11.	200.	17:40
16	232.	9.	243.	11.	24.	213.	10: 7
17	181.	7.	183.	8.	16.	208.	4:14
18	150.	4.	157.	6.	16.	180.	11:26
19	315.	3.	312.	5.	12.	309.	13:20
20	*	2.	*	3.	13.	*	14:45
21	33.	3.	39.	5.	15.	21.	12:56
22	345.	5.	17.	7.	16.	266.	14:14
23	278.	6.	273.	9.	20.	268.	15: 2
24	252.	5.	252.	7.	17.	241.	16:20
25	273.	10.	275.	12.	28.	267.	22: 0
26	281.	11.	292.	13.	27.	274.	11:14
27	340.	4.	*	3.	17.	330.	1:49
28	25.	8.	33.	11.	29.	48.	16:47
29	*	10.	*	14.	46.	*	16:21
30	122.	6.	123.	7.	19.	120.	18: 8
31	292.	5.	314.	4.	16.	258.	22:24
MEAN	180.	6.	162.	8.			
STANDARD DEVIATION	92.7	3.0	88.8	3.8			

ENVIRONMENTAL SUMMARY REPORT

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 80/ 5
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

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	13	10	1	0	0	0	0	0	0
2	18	6	0	0	0	0	0	0	0
3	16	8	0	0	0	0	0	0	0
4	13	7	4	0	0	0	0	0	0
5	5	6	6	7	0	0	0	0	0
6	4	6	6	8	0	0	0	0	0
7	0	6	15	3	0	0	0	0	0
8	7	8	9	0	0	0	0	0	0
9	6	2	12	4	0	0	0	0	0
10	0	2	12	9	1	0	0	0	0
11	6	12	6	0	0	0	0	0	0
12	9	2	13	0	0	0	0	0	0
13	6	3	14	1	0	0	0	0	0
14	13	9	2	0	0	0	0	0	0
15	18	6	0	0	0	0	0	0	0
16	3	7	9	5	0	0	0	0	0
17	2	14	8	0	0	0	0	0	0
18	9	12	3	0	0	0	0	0	0
19	13	10	1	0	0	0	0	0	0
20	20	4	0	0	0	0	0	0	0
21	12	12	0	0	0	0	0	0	0
22	7	15	2	0	0	0	0	0	0
23	10	5	9	0	0	0	0	0	0
24	9	7	8	0	0	0	0	0	0
25	1	7	11	5	0	0	0	0	0
26	2	4	9	9	0	0	0	0	0
27	15	7	2	0	0	0	0	0	0
28	9	7	6	1	1	0	0	0	0
29	5	2	9	6	1	1	0	0	0
30	8	8	7	1	0	0	0	0	0
31	11	8	4	0	0	0	0	0	1
AVERAGE	8.7	7.2	6.1	1.9	0.1	0.0	0.0	0.0	0.0
TOTAL	270	222	188	59	3	1	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: ZIEN MECHANICAL
MILWAUKEE, WISCONSIN

REPORT PERIOD: 80/ 5
SITE NUMBER: 184

LATITUDE: 43.00 DEG NORTH
LONGITUDE: 88.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 53 DEG

TIME ZONE: CENTRAL
ALTITUDE: 750 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	1662.	N.A.	N.A.	299.	12: 8	2892.	57.
2	1939.	N.A.	N.A.	276.	11:17	2881.	67.
3	1990.	N.A.	N.A.	282.	11:40	2870.	69.
4	1984.	N.A.	N.A.	282.	11:39	2861.	69.
5	1678.	N.A.	N.A.	302.	12:54	2851.	59.
6	1932.	N.A.	N.A.	288.	12:11	2840.	68.
7	894.	N.A.	N.A.	285.	13: 5	2829.	32.
8	711.	N.A.	N.A.	223.	8:47	2819.	25.
9	1170.	N.A.	N.A.	326.	10: 3	2808.	42.
10	573.	N.A.	N.A.	247.	10:42	2800.	20.
11	1706.	N.A.	N.A.	338.	11:24	2790.	61.
12	1565.	N.A.	N.A.	294.	11: 1	2780.	56.
13	370.	N.A.	N.A.	159.	8:23	2773.	13.
14	1284.	N.A.	N.A.	299.	13: 1	2763.	46.
15	1908.	N.A.	N.A.	299.	12:56	2754.	69.
16	1042.	N.A.	N.A.	223.	9:55	2744.	38.
17	139.	N.A.	N.A.	32.	9: 9	2735.	5.
18	354.	N.A.	N.A.	188.	9:25	2726.	13.
19	1852.	N.A.	N.A.	279.	12: 2	2720.	68.
20	1911.	N.A.	N.A.	270.	11:34	2711.	70.
21	1877.	N.A.	N.A.	267.	11:37	2703.	69.
22	*	N.A.	N.A.	*	*:*	2695.	*
23	1359.	N.A.	N.A.	291.	11:28	2687.	51.
24	1342.	N.A.	N.A.	276.	11:43	2679.	50.
25	1734.	N.A.	N.A.	247.	11:38	2671.	65.
26	1856.	N.A.	N.A.	264.	11:55	2666.	70.
27	1829.	N.A.	N.A.	258.	11:29	2659.	69.
28	797.	N.A.	N.A.	270.	11:30	2652.	30.
29	828.	N.A.	N.A.	252.	13:58	2646.	31.
30	1220.	N.A.	N.A.	279.	11:34	2639.	46.
31	*	N.A.	N.A.	*	*:*	2636.	*
MEAN	1362.	N.A.	N.A.			2751.	
STANDARD DEVIATION	568.	N.A.	N.A.			79.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ZIEN MECHANICAL
MILWAUKEE, WISCONSIN

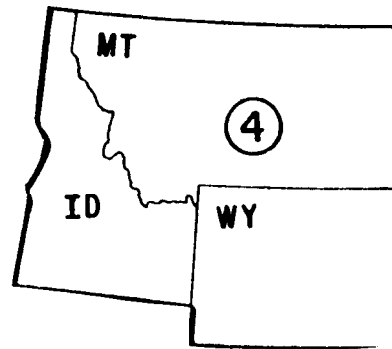
REPORT PERIOD: 80/ 5
SITE NUMBER: 184

LATITUDE: 43.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 88.00 DEG WEST PYRANOMETER TILT: 53 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	55.	60.	49.	67.	9:33	44.	23:54	61.
2	58.	69.	49.	74.	11:33	42.	3:49	58.
3	65.	73.	57.	80.	15:45	46.	4:44	60.
4	73.	81.	66.	87.	13:47	58.	4:33	60.
5	67.	78.	58.	87.	13:47	50.	23:55	60.
6	56.	64.	48.	69.	10:30	40.	23:50	59.
7	43.	46.	40.	50.	13:31	35.	4:43	61.
8	44.	47.	41.	51.	13:30	36.	3:59	60.
9	46.	51.	41.	60.	10:46	34.	2:57	62.
10	55.	57.	53.	67.	18: 4	41.	1:22	61.
11	55.	57.	52.	65.	14:50	44.	4:39	63.
12	55.	59.	50.	66.	11:11	45.	23:13	59.
13	44.	45.	44.	49.	8:17	41.	12:23	63.
14	50.	54.	47.	59.	10:27	42.	5:17	62.
15	51.	56.	46.	60.	10:37	41.	23:37	59.
16	48.	53.	44.	58.	13:34	38.	3:37	62.
17	49.	49.	49.	51.	23:38	45.	4: 5	61.
18	53.	56.	51.	62.	13:17	50.	18:21	68.
19	58.	63.	54.	71.	15:30	50.	23:23	65.
20	63.	70.	57.	75.	14:14	49.	1:21	65.
21	69.	76.	61.	81.	10:28	54.	4:25	65.
22	69.	80.	62.	88.	9:46	56.	3:38	68.
23	64.	70.	59.	74.	10:13	51.	4:32	68.
24	65.	69.	61.	76.	13:51	57.	2:28	70.
25	64.	70.	59.	76.	10:28	51.	23:55	65.
26	59.	66.	52.	72.	14:14	46.	4:27	66.
27	66.	74.	58.	85.	12:54	46.	1:21	65.
28	68.	72.	65.	77.	8:39	59.	2: 5	68.
29	67.	71.	64.	79.	14:30	56.	21:45	68.
30	71.	74.	65.	82.	14:57	60.	0: 3	67.
31	61.	69.	52.	74.	14:47	48.	22:15	*
MEAN	58.	64.	53.					63.
STANDARD DEVIATION	8.7	10.5	7.6					3.4

ZONE 4



ENVIRONMENTAL SUMMARY REPORT

SITE: BILLINGS SHIPPING
BILLINGS, MONTANA

REPORT PERIOD: 80/ 5
SITE NUMBER: 195

LATITUDE: 45.48 DEG NORTH
LONGITUDE: 108.32 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 50 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 3567 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	1953.	N.A.	N.A.	305.	11:52	3054.	64.
2	2121.	N.A.	N.A.	333.	12:19	3046.	70.
3	1741.	N.A.	N.A.	318.	12: 9	3037.	57.
4	1010.	N.A.	N.A.	321.	13:49	3029.	33.
5	2107.	N.A.	N.A.	321.	12:35	3020.	70.
6	2241.	N.A.	N.A.	305.	11:44	3012.	74.
7	2256.	N.A.	N.A.	312.	12: 9	3007.	75.
8	1256.	N.A.	N.A.	280.	12:53	2998.	42.
9	1064.	N.A.	N.A.	330.	11:34	2990.	36.
10	454.	N.A.	N.A.	103.	12:17	2982.	15.
11	1903.	N.A.	N.A.	343.	12:54	2974.	64.
12	2032.	N.A.	N.A.	355.	12:16	2966.	69.
13	1830.	N.A.	N.A.	333.	12:33	2959.	62.
14	1862.	N.A.	N.A.	321.	11:46	2951.	63.
15	2038.	N.A.	N.A.	337.	11: 0	2943.	69.
16	1853.	N.A.	N.A.	340.	12:16	2936.	63.
17	2078.	N.A.	N.A.	321.	11:44	2929.	71.
18	1813.	N.A.	N.A.	324.	12:48	2922.	62.
19	1634.	N.A.	N.A.	290.	12:39	2915.	56.
20	2088.	N.A.	N.A.	293.	13: 0	2908.	72.
21	2162.	N.A.	N.A.	290.	12: 0	2904.	74.
22	2163.	N.A.	N.A.	296.	11:49	2897.	75.
23	1581.	N.A.	N.A.	299.	13:50	2891.	55.
24	2016.	N.A.	N.A.	296.	11:46	2884.	70.
25	646.	N.A.	N.A.	224.	14:58	2878.	22.
26	1817.	N.A.	N.A.	321.	12: 0	2872.	63.
27	1923.	N.A.	N.A.	330.	12: 0	2866.	67.
28	1775.	N.A.	N.A.	321.	11:59	2861.	62.
29	1429.	N.A.	N.A.	330.	12:18	2855.	50.
30	1153.	N.A.	N.A.	333.	13:52	2853.	40.
31	1256.	N.A.	N.A.	333.	12: 9	2848.	44.
MEAN	1718.	N.A.	N.A.			2941.	
STANDARD DEVIATION	468.	N.A.	N.A.			64.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BILLINGS SHIPPING
BILLINGS, MONTANA

REPORT PERIOD: 80/ 5
SITE NUMBER: 195

LATITUDE: 45.48 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 108.32 DEG WEST PYRANOMETER TILT: 50 DEG ALTITUDE: 3567 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.	69.	55.	84.	14:54	47.	4:56	N.A.
2	64.	73.	56.	85.	14:59	43.	5:7	N.A.
3	61.	69.	53.	86.	13:24	46.	5:8	N.A.
4	59.	62.	56.	78.	15:25	51.	5:50	N.A.
5	65.	73.	58.	85.	14:0	47.	4:35	N.A.
6	61.	67.	55.	74.	15:17	47.	4:53	N.A.
7	54.	60.	49.	69.	14:33	42.	4:3	N.A.
8	57.	61.	53.	74.	17:25	38.	4:53	N.A.
9	59.	64.	55.	78.	14:46	50.	4:54	N.A.
10	47.	48.	46.	54.	13:31	41.	7:39	N.A.
11	52.	59.	45.	69.	16:33	38.	4:54	N.A.
12	53.	60.	47.	70.	12:32	36.	3:55	N.A.
13	55.	61.	48.	70.	14:47	42.	3:19	N.A.
14	56.	65.	49.	75.	14:20	38.	5:0	N.A.
15	60.	68.	53.	78.	13:8	42.	4:9	N.A.
16	61.	67.	55.	76.	14:50	44.	4:32	N.A.
17	63.	70.	56.	79.	13:47	46.	4:48	N.A.
18	62.	70.	54.	82.	12:43	46.	4:37	N.A.
19	68.	73.	62.	83.	15:56	51.	0:23	N.A.
20	73.	80.	67.	92.	14:15	55.	3:51	N.A.
21	76.	85.	67.	96.	15:22	56.	4:10	N.A.
22	78.	87.	69.	104.	14:50	57.	4:26	N.A.
23	73.	81.	66.	89.	14:32	59.	22:58	N.A.
24	63.	71.	55.	86.	15:14	49.	4:23	N.A.
25	52.	52.	53.	64.	15:3	44.	8:50	N.A.
26	59.	65.	54.	69.	11:28	48.	22:34	N.A.
27	63.	72.	55.	87.	16:26	41.	4:0	N.A.
28	62.	67.	57.	77.	13:46	48.	4:31	N.A.
29	57.	63.	52.	74.	13:6	48.	4:34	N.A.
30	52.	54.	50.	65.	15:55	45.	23:53	N.A.
31	54.	59.	49.	75.	14:43	42.	3:21	N.A.
MEAN	61.	67.	55.					N.A.
STANDARD DEVIATION	7.3	9.0	6.2					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: DESIGN CONSTRUCTION
BIGFORK, MONTANA

REPORT PERIOD: 80/ 5
SITE NUMBER: 76

LATITUDE: 48.00 DEG NORTH
LONGITUDE: 107.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 2284 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 INSOLATION TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	*	N.A.	N.A.	*	*:*	3235.	*
2	1659.	N.A.	N.A.	329.	12:28	3230.	51.
3	*	N.A.	N.A.	*	*:*	3226.	*
4	*	N.A.	N.A.	*	*:*	3221.	*
5	*	N.A.	N.A.	*	*:*	3216.	*
6	*	N.A.	N.A.	*	*:*	3212.	*
7	249.	N.A.	N.A.	95.	14:37	3204.	8.
8	*	N.A.	N.A.	*	*:*	3199.	*
9	497.	N.A.	N.A.	136.	10:15	3195.	16.
10	*	N.A.	N.A.	*	*:*	3190.	*
11	*	N.A.	N.A.	*	*:*	3186.	*
12	2122.	N.A.	N.A.	306.	12:26	3181.	67.
13	1876.	N.A.	N.A.	316.	13: 3	3176.	59.
14	1992.	N.A.	N.A.	306.	12:19	3172.	63.
15	*	N.A.	N.A.	*	*:*	3167.	*
16	2045.	N.A.	N.A.	329.	13:13	3163.	65.
17	*	N.A.	N.A.	*	*:*	3158.	*
18	*	N.A.	N.A.	*	*:*	3154.	*
19	*	N.A.	N.A.	*	*:*	3149.	*
20	*	N.A.	N.A.	*	*:*	3145.	*
21	*	N.A.	N.A.	*	*:*	3141.	*
22	1055.	N.A.	N.A.	295.	11:27	3137.	34.
23	21.	N.A.	N.A.	10.	11:57	3133.	1.
24	572.	N.A.	N.A.	211.	14:47	3129.	18.
25	130.	N.A.	N.A.	54.	11: 8	3125.	4.
26	755.	N.A.	N.A.	204.	12:20	3121.	24.
27	926.	N.A.	N.A.	268.	15:21	3118.	30.
28	1217.	N.A.	N.A.	350.	13:41	3114.	39.
29	1275.	N.A.	N.A.	360.	14: 1	3110.	41.
30	*	N.A.	N.A.	*	*:*	3107.	*
31	1750.	N.A.	N.A.	343.	11:51	3101.	56.
MEAN	1134.	N.A.	N.A.			3165.	
STANDARD DEVIATION	717.	N.A.	N.A.			40.	

* = data aquisition problems

ENVIRONMENTAL SUMMARY REPORT

SITE: DESIGN CONSTRUCTION
BIGFORK, MONTANA

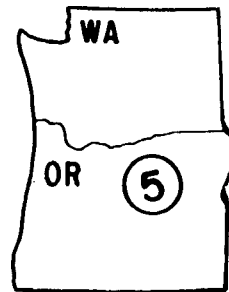
REPORT PERIOD: 80/ 5
SITE NUMBER: 76

LATITUDE: 48.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 107.00 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 2284 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	49.	50.	48.	69.	17: 7	36.	5:24	73.
2	53.	59.	47.	70.	14:42	40.	3:35	65.
3	54.	58.	49.	69.	11: 1	45.	23: 7	85.
4	50.	56.	44.	75.	16:35	40.	5:47	82.
5	66.	61.	67.	76.	17:50	43.	1:55	69.
6	57.	64.	54.	71.	10:49	48.	19: 4	75.
7	50.	50.	49.	55.	16:21	47.	23:49	70.
8	49.	52.	47.	59.	16:58	41.	23:30	76.
9	47.	50.	44.	58.	10: 4	39.	3:14	62.
10	54.	54.	51.	64.	16:23	43.	23:51	70.
11	41.	*	41.	41.	0:29	41.	1:43	79.
12	54.	60.	46.	70.	11:27	37.	5: 3	71.
13	49.	55.	44.	65.	14:45	36.	3:49	70.
14	51.	56.	46.	70.	16:40	36.	4:51	72.
15	55.	65.	49.	79.	14:21	39.	4:45	69.
16	49.	50.	47.	56.	17:56	43.	3:37	74.
17	51.	51.	52.	59.	17:19	47.	7:22	69.
18	62.	63.	60.	70.	16:37	47.	0:26	66.
19	60.	61.	60.	65.	16:46	56.	7:12	71.
20	65.	*	65.	68.	21:56	56.	2:40	82.
21	66.	72.	60.	85.	15:11	54.	22:44	72.
22	56.	60.	51.	74.	13:51	47.	23:57	69.
23	40.	40.	40.	47.	0: 2	33.	17:27	68.
24	43.	44.	42.	49.	12:44	38.	2:42	70.
25	45.	46.	43.	50.	12:18	41.	23:21	60.
26	44.	44.	43.	54.	17:13	38.	7:53	66.
27	48.	51.	45.	62.	17: 3	41.	4:47	69.
28	50.	53.	46.	63.	16:59	41.	0:37	70.
29	50.	54.	44.	63.	14: 6	40.	3:34	72.
30	51.	58.	48.	66.	13:52	44.	1:47	67.
31	52.	56.	48.	63.	16:12	45.	4:39	69.
MEAN	52.	55.	49.					71.
STANDARD DEVIATION	6.6	7.0	6.8					5.5

ZONE 5



ENVIRONMENTAL SUMMARY REPORT

SITE: LANDURA CORPORATION
STAYTON, OREGON

REPORT PERIOD: 80/ 5
SITE NUMBER: 156

LATITUDE: 45.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 1000 FEET

INSOLATION

DAY	TOTAL GLOBAL INSOLATION BTU/FT2	PYRANOMETER TILT89 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	2019.	929.	1089.	282.	12:14	1428.	141.
2	1512.	607.	905.	278.	13:19	1408.	107.
3	2171.	981.	1191.	282.	11:33	1388.	156.
4	2030.	931.	1099.	282.	12:15	1369.	148.
5	1019.	405.	614.	278.	12:47	1351.	75.
6	1082.	439.	643.	375.	12:39	1332.	81.
7	2118.	946.	1173.	285.	11:31	1316.	161.
8	837.	307.	530.	181.	9:59	1298.	64.
9	779.	283.	496.	304.	12:43	1281.	61.
10	228.	60.	168.	104.	10:50	1263.	18.
11	385.	111.	275.	110.	13:51	1247.	31.
12	899.	315.	584.	162.	11:55	1232.	73.
13	768.	258.	510.	139.	14: 5	1216.	63.
14	1158.	469.	689.	330.	12: 1	1201.	96.
15	1152.	456.	695.	311.	11:39	1186.	97.
16	2237.	853.	1385.	317.	11:59	1171.	191.
17	2237.	849.	1388.	291.	11:55	1157.	193.
18	1654.	654.	1000.	252.	11:39	1143.	145.
19	1682.	669.	1013.	304.	12:53	1129.	149.
20	1665.	642.	1024.	311.	11:35	1116.	149.
21	401.	116.	285.	113.	12:21	1104.	36.
22	1001.	354.	647.	337.	12:52	1092.	92.
23	1339.	482.	856.	333.	13:18	1080.	124.
24	696.	231.	465.	307.	11:50	1069.	65.
25	459.	136.	323.	152.	12: 1	1058.	43.
26	345.	98.	247.	68.	9:40	1046.	33.
27	923.	328.	595.	204.	15:53	1037.	89.
28	1894.	710.	1184.	362.	12: 1	1026.	185.
29	1520.	606.	914.	324.	13:58	1017.	149.
30	1483.	554.	929.	327.	10:51	1008.	147.
31	1347.	524.	823.	314.	12:10	1000.	135.
MEAN	1259.	494.	766.			1186.	
STANDARD DEVIATION	611.	276.	340.			131.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LANDURA CORPORATION
STAYTON, OREGON

REPORT PERIOD: 80/ 5
SITE NUMBER: 156

LATITUDE: 45.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 123.00 DEG WEST PYRANOMETER TILT: 89 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	59.	70.	51.	77.	15: 5	43.	4:14	80.
2	52.	56.	49.	61.	16:11	42.	23:55	79.
3	56.	63.	51.	75.	17:31	34.	4:27	79.
4	59.	67.	54.	74.	15: 1	47.	23:33	81.
5	54.	61.	50.	71.	13: 3	44.	4:53	81.
6	52.	57.	49.	63.	12:44	43.	23:58	80.
7	52.	60.	47.	66.	15:46	37.	3:58	79.
8	50.	55.	46.	61.	13: 6	41.	3:46	80.
9	47.	49.	46.	55.	12:43	44.	4:31	79.
10	47.	49.	46.	51.	11:11	43.	3: 1	77.
11	51.	53.	50.	58.	14:29	48.	4:42	76.
12	54.	59.	51.	64.	13:31	48.	4:16	76.
13	52.	55.	50.	60.	13:44	47.	4:50	75.
14	52.	58.	48.	64.	12:11	43.	23:55	75.
15	48.	53.	45.	60.	12:32	40.	23:33	74.
16	53.	60.	48.	66.	14:39	36.	4:26	74.
17	58.	66.	53.	72.	17:25	41.	4:43	75.
18	61.	70.	55.	74.	17: 4	45.	2:24	77.
19	57.	65.	52.	75.	14:24	42.	3:17	78.
20	60.	69.	55.	78.	14:37	45.	4: 3	79.
21	53.	55.	51.	59.	11:44	45.	23:11	79.
22	46.	48.	44.	54.	17:18	41.	22: 1	78.
23	48.	53.	46.	62.	13:18	41.	4:52	76.
24	48.	51.	47.	58.	16:54	40.	3:56	75.
25	47.	50.	46.	53.	12:22	45.	22:49	74.
26	47.	48.	46.	52.	14:28	43.	1:40	73.
27	53.	58.	50.	65.	15:58	45.	4:20	73.
28	56.	62.	52.	67.	9:37	47.	4:59	73.
29	55.	62.	50.	69.	13:26	43.	3: 2	75.
30	55.	59.	53.	66.	16:31	45.	4:38	75.
31	57.	63.	53.	72.	15:11	44.	3:48	76.
MEAN	53.	58.	49.					77.
STANDARD DEVIATION	4.2	6.5	3.0					2.5

ENVIRONMENTAL SUMMARY REPORT

SITE: OLYMPIC ENGINEERING
 RICHLAND, WASHINGTON

REPORT PERIOD: 80/ 5
 SITE NUMBER: 6

LATITUDE: 46.20 DEG NORTH
 LONGITUDE: 118.20 DEG WEST

AZIMUTH: 0 DEG
 PYRANOMETER TILT: 56 DEG

TIME ZONE: PACIFIC
 ALTITUDE: 949 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	2276.	N.A.	N.A.	312.	11:46	2899.	79.
2	1622.	N.A.	N.A.	330.	11:50	2888.	56.
3	2358.	N.A.	N.A.	318.	11:34	2877.	82.
4	2294.	N.A.	N.A.	312.	11:34	2866.	80.
5	1707.	N.A.	N.A.	333.	12:54	2858.	60.
6	1868.	N.A.	N.A.	348.	12:25	2847.	66.
7	2321.	N.A.	N.A.	315.	11:42	2837.	82.
8	1849.	N.A.	N.A.	318.	12:20	2826.	65.
9	2213.	N.A.	N.A.	330.	11:58	2816.	79.
10	617.	N.A.	N.A.	177.	10:49	2806.	22.
11	2395.	N.A.	N.A.	321.	11:42	2798.	86.
12	1471.	N.A.	N.A.	306.	12:56	2788.	53.
13	2229.	N.A.	N.A.	315.	11:21	2778.	80.
14	711.	N.A.	N.A.	144.	11:51	2771.	26.
15	1732.	N.A.	N.A.	351.	10:58	2762.	63.
16	2328.	N.A.	N.A.	315.	11:55	2753.	85.
17	2201.	N.A.	N.A.	300.	12:44	2743.	80.
18	702.	N.A.	N.A.	207.	9: 0	2735.	26.
19	1229.	N.A.	N.A.	231.	14:12	2726.	45.
20	1502.	N.A.	N.A.	249.	13:21	2717.	55.
21	1585.	N.A.	N.A.	252.	13:55	2711.	58.
22	1857.	N.A.	N.A.	345.	11:46	2703.	69.
23	2198.	N.A.	N.A.	312.	11:32	2695.	82.
24	884.	N.A.	N.A.	261.	11:12	2688.	33.
25	561.	N.A.	N.A.	141.	11: 2	2680.	21.
26	359.	N.A.	N.A.	54.	10:31	2673.	13.
27	1277.	N.A.	N.A.	216.	13:17	2666.	48.
28	2018.	N.A.	N.A.	339.	10:57	2659.	76.
29	1895.	N.A.	N.A.	303.	12: 0	2655.	71.
30	2047.	N.A.	N.A.	312.	12:36	2648.	77.
31	2047.	N.A.	N.A.	306.	11:51	2642.	77.
MEAN	1689.	N.A.	N.A.			2758.	
STANDARD DEVIATION	614.	N.A.	N.A.			79.	

ENVIRONMENTAL SUMMARY REPORT

SITE: OLYMPIC ENGINEERING
 RICHLAND, WASHINGTON

REPORT PERIOD: 80/ 5
 SITE NUMBER: 6

LATITUDE: 46.20 DEG NORTH
 LONGITUDE: 118.20 DEG WEST

AZIMUTH: 0 DEG
 PYRANOMETER TILT: 56 DEG

TIME ZONE: PACIFIC
 ALTITUDE: 949 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	66.	76.	57.	85.	14:58	46.	5: 1	65.
2	68.	76.	62.	84.	13:42	49.	23:55	68.
3	65.	76.	54.	85.	15:12	41.	4:54	85.
4	71.	82.	62.	93.	14:56	46.	4:32	98.
5	69.	80.	59.	96.	13: 4	51.	4:59	71.
6	64.	71.	57.	80.	16:25	49.	23:53	71.
7	64.	75.	54.	82.	15:37	45.	3:10	69.
8	65.	75.	56.	82.	12:47	48.	4:25	72.
9	62.	71.	55.	79.	14:38	48.	5:18	69.
10	58.	59.	57.	69.	17: 2	51.	7:37	87.
11	64.	74.	55.	83.	16:29	44.	4:52	93.
12	63.	73.	54.	84.	12:18	50.	2:26	63.
13	65.	75.	57.	83.	13: 2	46.	4:41	67.
14	59.	61.	57.	66.	12:23	54.	4:23	66.
15	60.	67.	54.	77.	12:29	49.	23:39	67.
16	62.	73.	52.	80.	14:40	42.	3:49	64.
17	66.	76.	56.	84.	15:35	45.	4:18	94.
18	57.	65.	53.	78.	9:16	46.	4:28	*
19	70.	80.	61.	89.	14:12	49.	3:37	68.
20	75.	85.	67.	96.	14:25	56.	5:21	76.
21	73.	83.	64.	94.	13:34	58.	2:48	76.
22	60.	66.	55.	74.	11:14	50.	23:59	68.
23	60.	69.	53.	77.	12:20	43.	4:26	69.
24	60.	65.	55.	74.	10:56	51.	4:11	*
25	60.	65.	55.	70.	13:15	48.	23:57	*
26	50.	52.	49.	55.	16:55	47.	6:10	77.
27	59.	66.	53.	75.	15:35	50.	4: 7	67.
28	63.	71.	56.	79.	14:57	48.	4:22	65.
29	66.	76.	57.	84.	14: 8	52.	1: 4	71.
30	69.	79.	61.	85.	15:21	53.	4:36	72.
31	71.	80.	62.	90.	14:37	51.	3:57	92.
MEAN	64.	72.	57.					74.
STANDARD DEVIATION	5.2	7.5	3.7					10.2

ENVIRONMENTAL SUMMARY REPORT

SITE: WASHINGTON NATURAL GAS
KIRTLAND, WASHINGTON

REPORT PERIOD: 80/ 5
SITE NUMBER: 64

LATITUDE: 47.50 DEG NORTH
LONGITUDE: 122.30 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 57 DEG

TIME ZONE: PACIFIC
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	1569.	N.A.	N.A.	246.	11:44	2909.	54.
2	958.	N.A.	N.A.	280.	13:33	2898.	33.
3	1785.	N.A.	N.A.	274.	12:40	2888.	62.
4	1666.	N.A.	N.A.	249.	12:11	2877.	58.
5	654.	N.A.	N.A.	225.	10: 8	2866.	23.
6	*	N.A.	N.A.	*	*:*	2856.	*
7	*	N.A.	N.A.	*	*:*	2848.	*
8	*	N.A.	N.A.	*	*:*	2837.	*
9	*	N.A.	N.A.	*	*:*	2827.	*
10	*	N.A.	N.A.	*	*:*	2817.	*
11	*	N.A.	N.A.	*	*:*	2807.	*
12	*	N.A.	N.A.	*	*:*	2797.	*
13	*	N.A.	N.A.	*	*:*	2790.	*
14	*	N.A.	N.A.	*	*:*	2781.	*
15	*	N.A.	N.A.	*	*:*	2771.	*
16	*	N.A.	N.A.	*	*:*	2765.	*
17	*	N.A.	N.A.	*	*:*	2756.	*
18	*	N.A.	N.A.	*	*:*	2747.	*
19	*	N.A.	N.A.	*	*:*	2738.	*
20	*	N.A.	N.A.	*	*:*	2730.	*
21	*	N.A.	N.A.	*	*:*	2721.	*
22	*	N.A.	N.A.	*	*:*	2713.	*
23	*	N.A.	N.A.	*	*:*	2705.	*
24	*	N.A.	N.A.	*	*:*	2700.	*
25	*	N.A.	N.A.	*	*:*	2693.	*
26	*	N.A.	N.A.	*	*:*	2686.	*
27	*	N.A.	N.A.	*	*:*	2679.	*
28	*	N.A.	N.A.	*	*:*	2672.	*
29	404.	N.A.	N.A.	143.	15:28	2665.	15.
30	564.	N.A.	N.A.	258.	14: 4	2659.	21.
31	695.	N.A.	N.A.	258.	12:40	2653.	26.
MEAN	1037.	N.A.	N.A.			2769.	
STANDARD DEVIATION	552.	N.A.	N.A.			78.	

ENVIRONMENTAL SUMMARY REPORT

SITE: WASHINGTON NATURAL GAS
KIRTLAND, WASHINGTON

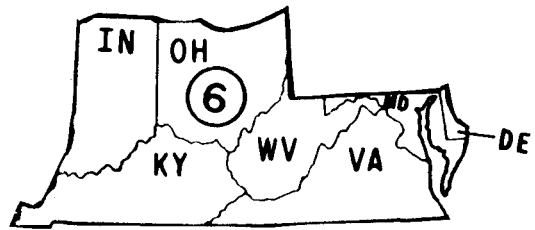
REPORT PERIOD: 80/ 5
SITE NUMBER: 64

LATITUDE: 47.50 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 122.30 DEG WEST PYRANOMETER TILT: 57 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	60.	66.	53.	80.	14:11	45.	5:41	58.
2	53.	54.	51.	64.	15: 4	44.	23:36	58.
3	53.	59.	49.	68.	15:41	40.	4:50	58.
4	61.	69.	53.	85.	15:50	45.	5:33	57.
5	57.	59.	55.	63.	13:49	51.	4:54	59.
6	53.	57.	51.	66.	16: 8	46.	23:47	61.
7	55.	62.	49.	71.	15:41	43.	5:50	58.
8	53.	57.	48.	64.	14:48	47.	2:10	57.
9	53.	*	53.	55.	19:48	51.	23:54	60.
10	62.	66.	59.	72.	17:40	50.	1:19	63.
11	55.	59.	52.	72.	13:35	50.	5: 8	58.
12	*	*	*	*	*:*	*	*:*	*
13	*	*	*	*	*:*	*	*:*	*
14	*	*	*	*	*:*	*	*:*	*
15	*	*	*	*	*:*	*	*:*	*
16	*	*	*	*	*:*	*	*:*	*
17	*	*	*	*	*:*	*	*:*	*
18	*	*	*	*	*:*	*	*:*	*
19	*	*	*	*	*:*	*	*:*	*
20	*	*	*	*	*:*	*	*:*	*
21	*	*	*	*	*:*	*	*:*	*
22	57.	57.	0.	58.	12: 6	55.	12:22	61.
23	*	*	*	*	*:*	*	*:*	*
24	*	*	*	*	*:*	*	*:*	*
25	*	*	*	*	*:*	*	*:*	*
26	*	*	*	*	*:*	*	*:*	*
27	*	*	*	*	*:*	*	*:*	*
28	58.	61.	55.	64.	17:45	50.	23:37	60.
29	54.	56.	53.	61.	19: 1	50.	1:13	59.
30	57.	58.	55.	70.	18:16	50.	1:35	*
31	55.	58.	52.	66.	13:17	48.	4:50	*
MEAN	56.	60.	53.					59.
STANDARD DEVIATION	2.9	4.2	2.9					1.7

ZONE 6



ENVIRONMENTAL SUMMARY REPORT

SITE: ALPHA CONSTRUCTION
CANTON, OHIO

REPORT PERIOD: 80/ 5
SITE NUMBER: 79

LATITUDE: 41.00 DEG NORTH
LONGITUDE: 81.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 37 DEG

TIME ZONE: EASTERN
ALTITUDE: 1208 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	1195.	N.A.	N.A.	309.	12:46	3255.	37.
2	1094.	N.A.	N.A.	300.	12:45	3251.	34.
3	2188.	N.A.	N.A.	309.	12: 7	3247.	67.
4	2188.	N.A.	N.A.	303.	12: 1	3243.	67.
5	2103.	N.A.	N.A.	319.	12:11	3239.	65.
6	1352.	N.A.	N.A.	288.	13:39	3235.	42.
7	1606.	N.A.	N.A.	347.	12:50	3228.	50.
8	787.	N.A.	N.A.	254.	10:17	3223.	24.
9	1587.	N.A.	N.A.	359.	12:12	3219.	49.
10	1777.	N.A.	N.A.	313.	11: 4	3215.	55.
11	796.	N.A.	N.A.	229.	14:37	3211.	25.
12	298.	N.A.	N.A.	74.	14:37	3207.	9.
13	1711.	N.A.	N.A.	334.	11:43	3203.	53.
14	948.	N.A.	N.A.	309.	9:44	3199.	30.
15	1362.	N.A.	N.A.	309.	11:13	3192.	43.
16	2236.	N.A.	N.A.	322.	12: 7	3187.	70.
17	329.	N.A.	N.A.	84.	13:31	3183.	10.
18	819.	N.A.	N.A.	275.	13:44	3179.	26.
19	637.	N.A.	N.A.	288.	13:34	3176.	20.
20	1325.	N.A.	N.A.	294.	12:14	3172.	42.
21	1140.	N.A.	N.A.	291.	12:52	3168.	36.
22	2331.	N.A.	N.A.	306.	11:43	3164.	74.
23	955.	N.A.	N.A.	288.	11:48	3160.	30.
24	769.	N.A.	N.A.	152.	16: 4	3157.	24.
25	1930.	N.A.	N.A.	272.	12:45	3153.	61.
26	2195.	N.A.	N.A.	306.	11:55	3150.	70.
27	2070.	N.A.	N.A.	285.	11:23	3146.	66.
28	2045.	N.A.	N.A.	294.	11:52	3143.	65.
29	1534.	N.A.	N.A.	248.	10:31	3140.	49.
30	993.	N.A.	N.A.	229.	10:15	3136.	32.
31	1583.	N.A.	N.A.	316.	12:15	3133.	51.
MEAN	1416.	N.A.	N.A.			3191.	
STANDARD DEVIATION	596.	N.A.	N.A.			38.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ALPHA CONSTRUCTION
CANTON, OHIO

REPORT PERIOD: 80/ 5
SITE NUMBER: 79

LATITUDE: 41.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 81.00 DEG WEST PYRANOMETER TILT: 37 DEG ALTITUDE: 1208 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	53.	57.	48.	68.	15:26	42.	5:56	58.
2	54.	60.	47.	67.	16:55	39.	5:17	56.
3	60.	69.	52.	78.	14:52	42.	3: 8	57.
4	64.	71.	57.	80.	15: 7	45.	5:48	60.
5	68.	76.	60.	84.	14:30	52.	5:21	59.
6	58.	61.	56.	68.	15:36	50.	5:55	63.
7	52.	55.	50.	59.	15:19	42.	23:58	59.
8	40.	43.	37.	49.	16:57	33.	4:30	59.
9	45.	50.	40.	58.	16:12	31.	1:32	59.
10	54.	61.	46.	70.	14:48	35.	3:20	64.
11	63.	69.	58.	78.	16:34	50.	0: 8	67.
12	59.	60.	59.	65.	18:45	54.	7:19	57.
13	65.	72.	59.	79.	15:38	54.	23:57	61.
14	50.	53.	48.	58.	15:52	39.	23:50	63.
15	50.	56.	43.	62.	17:16	35.	4:27	58.
16	55.	61.	49.	68.	14:52	38.	4:55	55.
17	56.	57.	55.	60.	14:56	52.	5:20	57.
18	62.	65.	59.	74.	14:48	53.	0:53	54.
19	60.	62.	58.	70.	14:32	55.	5:18	61.
20	61.	66.	56.	73.	12:19	49.	5:13	56.
21	63.	67.	59.	76.	15:10	52.	23:59	59.
22	65.	73.	57.	80.	17: 3	47.	5:25	64.
23	66.	71.	61.	81.	11:54	57.	0: 4	63.
24	66.	71.	61.	80.	16:10	59.	23:57	58.
25	66.	72.	59.	80.	13:39	52.	23:34	60.
26	58.	64.	51.	71.	13:10	45.	5:10	60.
27	57.	64.	49.	74.	15:35	39.	5:36	56.
28	67.	73.	60.	82.	17:11	51.	0: 3	64.
29	70.	76.	65.	83.	15: 3	54.	4:28	56.
30	70.	74.	67.	79.	16:18	63.	20:15	57.
31	70.	75.	65.	81.	13: 3	57.	23:59	60.
MEAN	60.	65.	55.					59.
STANDARD DEVIATION	7.5	8.3	7.3					3.1

ENVIRONMENTAL SUMMARY REPORT

SITE: COLUMBIA GAS
COLUMBUS, OHIO

REPORT PERIOD: 80/ 5
SITE NUMBER: 176

LATITUDE: 40.00 DEG NORTH AZIMUTH: -5 DEG TIME ZONE: EASTERN
LONGITUDE: 83.00 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 755 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	EXT INS	
				BTU/HR/FT2	BTU/FT2	PERCENT	
				TIME			
				HR:MN			
1	1421.	549.	872.	288.	10:50	3173.	45.
2	1191.	758.	433.	275.	12: 0	3167.	38.
3	1947.	580.	1367.	294.	12:50	3161.	62.
4	1944.	468.	1476.	259.	13:36	3154.	62.
5	1810.	622.	1188.	272.	12:32	3148.	57.
6	1522.	678.	845.	301.	12: 6	3142.	48.
7	917.	657.	260.	266.	13:13	3136.	29.
8	1311.	637.	675.	304.	10:59	3130.	42.
9	1841.	621.	1220.	317.	11:26	3124.	59.
10	1373.	574.	800.	304.	12:50	3118.	44.
11	1307.	773.	534.	243.	13:54	3112.	42.
12	527.	414.	113.	294.	13:16	3106.	17.
13	1991.	469.	1522.	291.	11:23	3100.	64.
14	1008.	634.	374.	314.	12:59	3094.	33.
15	1624.	697.	927.	304.	12:43	3089.	53.
16	1719.	662.	1057.	275.	10:52	3083.	56.
17	399.	359.	41.	138.	10:44	3077.	13.
18	1186.	685.	501.	298.	13: 5	3072.	39.
19	738.	591.	147.	262.	14:14	3067.	24.
20	825.	678.	146.	192.	12:56	3061.	27.
21	1898.	883.	1015.	272.	13:34	3056.	62.
22	1970.	688.	1282.	262.	12:25	3051.	65.
23	700.	608.	92.	179.	11:20	3046.	23.
24	1140.	720.	419.	307.	12:44	3041.	37.
25	1817.	839.	977.	230.	11: 8	3036.	60.
26	2066.	429.	1637.	262.	11: 6	3032.	68.
27	2008.	675.	1334.	246.	13:19	3027.	66.
28	1845.	671.	1174.	262.	12:20	3023.	61.
29	1731.	834.	898.	269.	12:12	3018.	57.
30	*	*	*	*	*:*	3014.	*
31	*	*	*	*	*:*	3010.	*
MEAN	1441.	636.	804.			3086.	
STANDARD DEVIATION	496.	126.	482.			50.	

ENVIRONMENTAL SUMMARY REPORT

SITE: COLUMBIA GAS
COLUMBUS, OHIO

REPORT PERIOD: 80/ 5
SITE NUMBER: 176

LATITUDE: 40.00 DEG NORTH AZIMUTH: -5 DEG TIME ZONE: EASTERN
LONGITUDE: 83.00 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 755 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	53.	57.	50.	70.	17:53	41.	5:20	N.A.
2	60.	66.	53.	75.	12:0	43.	5:20	N.A.
3	65.	73.	57.	85.	15:30	46.	5:48	N.A.
4	69.	78.	60.	88.	14:24	49.	5:16	N.A.
5	73.	80.	66.	89.	15:12	53.	5:30	N.A.
6	65.	68.	62.	79.	14:19	58.	21:29	N.A.
7	55.	55.	54.	62.	15:37	41.	23:53	N.A.
8	45.	51.	40.	56.	10:54	36.	5:7	N.A.
9	51.	57.	45.	66.	15:42	36.	3:26	N.A.
10	57.	64.	50.	72.	14:42	39.	4:24	N.A.
11	70.	76.	64.	85.	16:8	59.	0:45	N.A.
12	65.	67.	63.	75.	17:11	58.	5:5	N.A.
13	71.	76.	66.	84.	16:37	57.	23:55	N.A.
14	54.	56.	51.	65.	17:20	46.	23:28	N.A.
15	58.	65.	51.	73.	17:32	41.	5:15	N.A.
16	61.	67.	55.	73.	15:3	45.	4:55	N.A.
17	58.	60.	56.	66.	11:0	54.	3:42	N.A.
18	67.	71.	63.	80.	15:45	56.	0:4	N.A.
19	64.	66.	62.	75.	14:3	59.	6:19	N.A.
20	64.	69.	59.	78.	13:1	56.	4:56	N.A.
21	69.	75.	62.	83.	13:56	57.	5:24	N.A.
22	71.	78.	64.	88.	14:28	54.	4:52	N.A.
23	71.	71.	70.	78.	14:59	65.	9:1	N.A.
24	70.	75.	65.	87.	14:41	59.	17:48	N.A.
25	70.	76.	65.	84.	14:47	58.	23:54	N.A.
26	65.	73.	56.	80.	15:43	49.	23:59	N.A.
27	63.	72.	54.	84.	17:35	43.	5:3	N.A.
28	69.	78.	61.	89.	16:20	49.	5:2	N.A.
29	75.	82.	68.	90.	15:30	56.	5:27	N.A.
30	*	*	*	*	*:*	*	*:*	N.A.
31	*	*	*	*	*:*	*	*:*	N.A.
MEAN	64.	69.	58.					N.A.
STANDARD DEVIATION	7.4	8.3	7.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: DAMASCUS LAND CORPORATION
DAMASCUS, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 141

LATITUDE: 39.11 DEG NORTH AZIMUTH: 10 DEG TIME ZONE: EASTERN
LONGITUDE: 76.40 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 148 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	1747.	N.A.	N.A.	339.	12:33	2710.	64.	
2	1848.	N.A.	N.A.	332.	11:10	2697.	69.	
3	2253.	N.A.	N.A.	325.	12:28	2686.	84.	
4	2329.	N.A.	N.A.	325.	12: 7	2675.	87.	
5	2170.	N.A.	N.A.	318.	12:16	2662.	82.	
6	2042.	N.A.	N.A.	308.	12:14	2649.	77.	
7	1862.	N.A.	N.A.	304.	11:43	2636.	71.	
8	1020.	N.A.	N.A.	353.	13:30	2626.	39.	
9	1768.	N.A.	N.A.	339.	11:38	2614.	68.	
10	2332.	N.A.	N.A.	325.	12:45	2601.	90.	
11	775.	N.A.	N.A.	234.	14:42	2592.	30.	
12	1498.	N.A.	N.A.	315.	13:29	2580.	58.	
13	1796.	N.A.	N.A.	322.	12:50	2571.	70.	
14	1398.	N.A.	N.A.	238.	12:37	2559.	55.	
15	2516.	N.A.	N.A.	329.	12:31	2548.	99.	
16	2362.	N.A.	N.A.	318.	12:12	2537.	93.	
17	1255.	N.A.	N.A.	325.	10:52	2528.	50.	
18	841.	N.A.	N.A.	245.	15:15	2518.	33.	
19	1050.	N.A.	N.A.	255.	12:51	2507.	42.	
20	451.	N.A.	N.A.	115.	12:16	2497.	18.	
21	582.	N.A.	N.A.	157.	11: 5	2487.	23.	
22	2262.	N.A.	N.A.	315.	12:31	2480.	91.	
23	1847.	N.A.	N.A.	353.	12: 7	2471.	75.	
24	712.	N.A.	N.A.	178.	9:11	2464.	29.	
25	1615.	N.A.	N.A.	276.	11:40	2455.	66.	
26	2379.	N.A.	N.A.	311.	11:26	2447.	97.	
27	2073.	N.A.	N.A.	273.	11:21	2438.	85.	
28	2140.	N.A.	N.A.	301.	12:21	2430.	88.	
29	2096.	N.A.	N.A.	294.	12:33	2423.	87.	
30	1917.	N.A.	N.A.	301.	12: 9	2417.	79.	
31	1399.	N.A.	N.A.	301.	13:40	2410.	58.	
MEAN	1688.	N.A.	N.A.			2546.		
STANDARD DEVIATION	595.	N.A.	N.A.			92.		

ENVIRONMENTAL SUMMARY REPORT

SITE: DAMASCUS LAND CORPORATION
DAMASCUS, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 141

LATITUDE: 39.11 DEG NORTH AZIMUTH: 10 DEG TIME ZONE: EASTERN
LONGITUDE: 76.40 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 148 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	58.	61.	56.	69.	14:25	49.	2:41	65.
2	62.	67.	58.	73.	14:33	54.	5:7	65.
3	63.	68.	59.	76.	15:51	52.	5:59	70.
4	66.	72.	60.	79.	15:49	52.	23:55	72.
5	69.	77.	62.	86.	15:44	48.	4:16	72.
6	68.	76.	60.	84.	14:48	51.	4:56	74.
7	64.	71.	58.	79.	13:51	49.	5:8	75.
8	51.	53.	49.	62.	15:16	43.	23:49	71.
9	47.	52.	42.	59.	16:10	34.	23:52	67.
10	55.	62.	49.	70.	17:17	32.	4:34	67.
11	60.	60.	60.	72.	17:13	55.	10:53	69.
12	69.	76.	63.	84.	15:16	56.	0:25	68.
13	72.	76.	68.	85.	14:42	61.	2:58	73.
14	62.	66.	58.		*	50.	23:43	73.
15	55.	60.	51.	66.	15:27	39.	5:3	71.
16	57.	64.	50.	72.	15:56	39.	5:16	72.
17	58.	64.	54.	69.	12:1	46.	0:6	71.
18	62.	64.	60.	74.	16:51	55.	0:38	71.
19	66.	71.	62.	79.	13:33	56.	0:51	71.
20	62.	63.	62.	65.	12:32	60.	23:26	71.
21	59.	60.	57.	64.	18:17	51.	22:50	69.
22	66.	73.	59.	81.	15:16	50.	1:40	70.
23	69.	76.	63.	83.	14:37	53.	0:55	72.
24	67.	70.	65.	78.	9:27	63.	21:27	75.
25	70.	74.	66.	80.	13:5	58.	23:58	75.
26	61.	66.	56.	73.	16:30	46.	23:58	73.
27	58.	65.	53.	73.	16:41	41.	4:41	72.
28	64.	71.	59.	80.	16:32	47.	2:59	73.
29	70.	75.	65.	81.	14:25	59.	4:38	75.
30	69.	72.	65.	79.	15:26	55.	4:41	77.
31	72.	75.	70.	83.	14:12	65.	4:36	78.
MEAN	63.	68.	59.					71.
STANDARD DEVIATION	6.2	6.7	6.2					3.1

ENVIRONMENTAL SUMMARY REPORT

SITE: DAVIDSON-PHILLIPS
COLUMBUS, OHIO

REPORT PERIOD: 80/ 5
SITE NUMBER: 68

LATITUDE: 40.00 DEG NORTH
LONGITUDE: 82.53 DEG WEST

AZIMUTH: -12 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: EASTERN
ALTITUDE: 812 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	1895.	N.A.	N.A.	331.	12:48	3184.	60.
2	1309.	N.A.	N.A.	340.	11:33	3178.	41.
3	2000.	N.A.	N.A.	337.	13: 5	3172.	63.
4	2038.	N.A.	N.A.	297.	13:30	3166.	64.
5	1896.	N.A.	N.A.	311.	13: 9	3160.	60.
6	1641.	N.A.	N.A.	309.	12:49	3152.	52.
7	1418.	N.A.	N.A.	360.	13:18	3146.	45.
8	1303.	N.A.	N.A.	294.	10:55	3140.	42.
9	1854.	N.A.	N.A.	337.	13:30	3134.	59.
10	1507.	N.A.	N.A.	340.	13:21	3128.	48.
11	1536.	N.A.	N.A.	309.	11:55	3123.	49.
12	620.	N.A.	N.A.	260.	13:12	3117.	20.
13	2211.	N.A.	N.A.	317.	12:31	3111.	71.
14	1030.	N.A.	N.A.	351.	11:33	3106.	33.
15	1812.	N.A.	N.A.	337.	13:12	3100.	58.
16	1778.	N.A.	N.A.	317.	12:52	3095.	57.
17	422.	N.A.	N.A.	133.	10:56	3089.	14.
18	1340.	N.A.	N.A.	328.	12:21	3084.	43.
19	887.	N.A.	N.A.	328.	13:43	3079.	29.
20	905.	N.A.	N.A.	241.	10:56	3074.	29.
21	2109.	N.A.	N.A.	294.	12:56	3069.	69.
22	2145.	N.A.	N.A.	300.	12:49	3064.	70.
23	706.	N.A.	N.A.	170.	13:15	3059.	23.
24	934.	N.A.	N.A.	275.	13:23	3054.	31.
25	1898.	N.A.	N.A.	260.	13:28	3050.	62.
26	2190.	N.A.	N.A.	300.	12:41	3045.	72.
27	2051.	N.A.	N.A.	286.	12:41	3041.	67.
28	2013.	N.A.	N.A.	294.	12: 7	3036.	66.
29	1860.	N.A.	N.A.	289.	11:43	3032.	61.
30	1169.	N.A.	N.A.	294.	13: 2	3028.	39.
31	1943.	N.A.	N.A.	320.	13:16	3024.	64.
MEAN	1562.	N.A.	N.A.			3098.	
STANDARD DEVIATION	514.	N.A.	N.A.			49.	

ENVIRONMENTAL SUMMARY REPORT

SITE: DAVIDSON-PHILLIPS
COLUMBUS, OHIO

REPORT PERIOD: 80/ 5
SITE NUMBER: 68

LATITUDE: 40.00 DEG NORTH AZIMUTH: -12 DEG TIME ZONE: EASTERN
LONGITUDE: 82.53 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 812 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.	75.	64.	83.	15: 1	56.	5: 31	N.A.
2	71.	77.	66.	83.	15:12	58.	5: 4	N.A.
3	75.	82.	69.	90.	15:23	60.	5:42	N.A.
4	78.	86.	71.	93.	16: 5	63.	5:47	N.A.
5	82.	89.	74.	95.	14:40	65.	5:36	N.A.
6	76.	79.	74.	85.	14:51	69.	5:37	N.A.
7	69.	69.	68.	76.	1:39	55.	23:59	N.A.
8	60.	65.	55.	69.	11: 5	49.	5:51	N.A.
9	64.	70.	58.	77.	15:32	50.	5:35	N.A.
10	70.	77.	63.	83.	13:21	53.	4:27	N.A.
11	82.	87.	77.	93.	15:25	72.	0: 1	N.A.
12	78.	80.	76.	86.	15:31	72.	5:39	N.A.
13	82.	86.	78.	91.	16:53	70.	23:59	N.A.
14	68.	70.	66.	74.	15:49	61.	23:57	N.A.
15	70.	76.	64.	81.	16:13	55.	5:44	N.A.
16	73.	78.	69.	82.	15:53	60.	3:43	N.A.
17	73.	75.	71.	78.	11: 1	68.	3:54	N.A.
18	79.	82.	76.	87.	15:30	70.	0:26	N.A.
19	76.	78.	74.	83.	14: 5	71.	3:51	N.A.
20	76.	79.	73.	85.	12:53	69.	4: 5	N.A.
21	79.	83.	74.	88.	14:43	69.	5:28	N.A.
22	80.	86.	75.	92.	14:41	66.	4:55	N.A.
23	81.	83.	80.	86.	15: 7	78.	3: 7	N.A.
24	82.	84.	79.	90.	14: 0	76.	22:27	N.A.
25	81.	86.	77.	91.	14:37	70.	23:48	N.A.
26	75.	81.	69.	87.	15:16	62.	23:21	N.A.
27	74.	81.	67.	89.	15:58	57.	4: 4	N.A.
28	80.	87.	72.	94.	15: 3	64.	3:29	N.A.
29	84.	91.	78.	97.	14:55	68.	5:35	N.A.
30	83.	85.	81.	92.	16: 3	78.	2:59	N.A.
31	85.	89.	82.	94.	14:30	76.	23:50	N.A.
MEAN	76.	81.	72.					N.A.
STANDARD DEVIATION	6.2	6.5	6.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: FOREST CITY DILLON
WASHINGTON, D.C.

REPORT PERIOD: 80/ 5
SITE NUMBER: 125

LATITUDE: 39.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 77.00 DEG WEST PYRANOMETER TILT: 40 DEG TIME ZONE: EASTERN
ALTITUDE: 200 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	EXT INS	
				BTU/HR/FT2	BTU/FT2	PERCENT	
				TIME			
				HR:MN			
1	1032.	N.A.	N.A.	305.	13: 8	3144.	33.
2	1732.	N.A.	N.A.	337.	12:16	3138.	55.
3	1979.	N.A.	N.A.	314.	12: 2	3131.	63.
4	2205.	N.A.	N.A.	303.	11:30	3124.	71.
5	2116.	N.A.	N.A.	303.	12:56	3117.	68.
6	1644.	N.A.	N.A.	280.	11:35	3111.	53.
7	1995.	N.A.	N.A.	286.	11:57	3104.	64.
8	511.	N.A.	N.A.	150.	15:57	3100.	16.
9	1509.	N.A.	N.A.	311.	10:39	3094.	49.
10	2208.	N.A.	N.A.	314.	11:55	3087.	72.
11	742.	N.A.	N.A.	235.	14:44	3081.	24.
12	1605.	N.A.	N.A.	269.	13:35	3075.	52.
13	1562.	N.A.	N.A.	300.	11:12	3068.	51.
14	1876.	N.A.	N.A.	297.	12:26	3062.	61.
15	2409.	N.A.	N.A.	305.	11:43	3056.	79.
16	*	N.A.	N.A.	*	*:*	3050.	*
17	1679.	N.A.	N.A.	334.	12:17	3044.	55.
18	726.	N.A.	N.A.	215.	12:11	3038.	24.
19	1032.	N.A.	N.A.	221.	13:58	3032.	34.
20	*	N.A.	N.A.	*	*:*	3026.	*
21	*	N.A.	N.A.	*	*:*	3021.	*
22	*	N.A.	N.A.	*	*:*	3015.	*
23	*	N.A.	N.A.	*	*:*	3010.	*
24	*	N.A.	N.A.	*	*:*	3005.	*
25	*	N.A.	N.A.	*	*:*	3000.	*
26	*	N.A.	N.A.	*	*:*	2995.	*
27	*	N.A.	N.A.	*	*:*	2990.	*
28	*	N.A.	N.A.	*	*:*	2985.	*
29	*	N.A.	N.A.	*	*:*	2980.	*
30	*	N.A.	N.A.	*	*:*	2976.	*
31	*	N.A.	N.A.	*	*:*	2972.	*
MEAN	1587.	N.A.	N.A.			3053.	
STANDARD DEVIATION	563.	N.A.	N.A.			53.	

ENVIRONMENTAL SUMMARY REPORT

SITE: FOREST CITY DILLON
WASHINGTON, D.C.

REPORT PERIOD: 80/ 5
SITE NUMBER: 125

LATITUDE: 39.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 77.00 DEG WEST PYRANOMETER TILT: 40 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	57.	61.	54.	71.	14:30	50.	2:12	65.
2	64.	70.	59.	84.	15:50	56.	0:1	66.
3	68.	74.	62.	82.	14:42	54.	5:17	67.
4	73.	77.	68.	84.	14:37	62.	5:11	69.
5	76.	85.	69.	92.	13:40	57.	5:1	71.
6	75.	80.	69.	95.	13:0	60.	13:48	72.
7	70.	78.	62.	86.	14:27	56.	23:59	71.
8	52.	53.	52.	60.	16:19	46.	23:49	70.
9	52.	57.	47.	64.	15:30	41.	4:26	68.
10	61.	69.	53.	75.	15:12	42.	1:36	68.
11	65.	66.	64.	77.	16:36	58.	3:49	69.
12	75.	82.	68.	95.	13:40	64.	5:8	70.
13	76.	81.	72.	92.	14:38	65.	2:50	72.
14	69.	74.	64.	82.	10:13	55.	23:59	70.
15	59.	63.	55.	73.	14:29	48.	4:37	70.
16	63.	68.	57.	80.	15:55	48.	4:59	69.
17	64.	70.	58.	76.	11:18	52.	4:43	70.
18	66.	67.	65.	81.	16:24	58.	4:11	70.
19	73.	78.	65.	89.	14:3	63.	3:57	71.
20	*	*	*	*	*:*	*	*:*	*
21	*	*	*	*	*:*	*	*:*	*
22	*	*	*	*	*:*	*	*:*	*
23	*	*	*	*	*:*	*	*:*	*
24	*	*	*	*	*:*	*	*:*	*
25	*	*	*	*	*:*	*	*:*	*
26	*	*	*	*	*:*	*	*:*	*
27	*	*	*	*	*:*	*	*:*	*
28	*	*	*	*	*:*	*	*:*	*
29	*	*	*	*	*:*	*	*:*	*
30	*	*	*	*	*:*	*	*:*	*
31	*	*	*	*	*:*	*	*:*	*
MEAN	66.	71.	61.					69.
STANDARD DEVIATION	7.5	8.8	6.7					1.8

ENVIRONMENTAL SUMMARY REPORT

SITE: HOGATE'S RESTAURANT
WASHINGTON, DC

REPORT PERIOD: 80/ 5
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	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	INSOLATION	EXT INS	
				BTU/HR/FT2	BTU/FT2	PERCENT	
				TIME			
				HR:MN			
1	816.	N.A.	N.A.	290.	13:16	2849.	29.
2	842.	N.A.	N.A.	246.	12: 3	2844.	30.
3	1329.	N.A.	N.A.	278.	13:24	2842.	47.
4	1485.	N.A.	N.A.	284.	14: 2	2836.	52.
5	1428.	N.A.	N.A.	287.	13:46	2832.	50.
6	914.	N.A.	N.A.	266.	14:25	2827.	32.
7	1316.	N.A.	N.A.	281.	14: 7	2824.	47.
8	294.	N.A.	N.A.	225.	15:54	2818.	10.
9	877.	N.A.	N.A.	299.	13:39	2814.	31.
10	1456.	N.A.	N.A.	284.	14:19	2811.	52.
11	522.	N.A.	N.A.	261.	15:12	2807.	19.
12	1182.	N.A.	N.A.	264.	13:36	2801.	42.
13	1149.	N.A.	N.A.	278.	12:56	2798.	41.
14	1403.	N.A.	N.A.	272.	13:13	2794.	50.
15	1466.	N.A.	N.A.	278.	13:55	2788.	53.
16	1426.	N.A.	N.A.	278.	14:22	2784.	51.
17	926.	N.A.	N.A.	234.	11:27	2780.	33.
18	569.	N.A.	N.A.	222.	15:54	2776.	21.
19	545.	N.A.	N.A.	237.	14: 0	2770.	20.
20	305.	N.A.	N.A.	56.	13:25	2766.	11.
21	266.	N.A.	N.A.	83.	9:59	2765.	10.
22	1390.	N.A.	N.A.	264.	13: 8	2759.	50.
23	1198.	N.A.	N.A.	287.	13:14	2754.	44.
24	862.	N.A.	N.A.	255.	13: 8	2750.	31.
25	765.	N.A.	N.A.	225.	13:40	2746.	28.
26	1470.	N.A.	N.A.	275.	13:52	2745.	54.
27	1264.	N.A.	N.A.	225.	13:57	2739.	46.
28	1348.	N.A.	N.A.	255.	13:53	2735.	49.
29	1322.	N.A.	N.A.	249.	14: 1	2731.	48.
30	1242.	N.A.	N.A.	231.	13:20	2730.	45.
31	738.	N.A.	N.A.	175.	11:38	2726.	27.
MEAN	1036.	N.A.	N.A.			2785.	
STANDARD DEVIATION	389.	N.A.	N.A.			38.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HOGATE'S RESTAURANT
WASHINGTON, DC

REPORT PERIOD: 80/ 5
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	60.	62.	58.	75.	14:52	52.	2: 8	61.
2	66.	70.	63.	80.	16:19	56.	0: 3	60.
3	68.	71.	65.	83.	14:49	54.	5: 3	60.
4	71.	75.	68.	83.	17: 3	59.	23: 0	61.
5	75.	79.	71.	93.	14:55	55.	4:15	61.
6	74.	78.	70.	94.	12:22	58.	5:16	62.
7	70.	74.	66.	83.	15: 6	59.	5:19	65.
8	54.	53.	55.	60.	16:20	48.	23:58	66.
9	54.	55.	52.	65.	15:46	43.	4:41	65.
10	61.	64.	59.	75.	15:50	45.	3: 2	65.
11	66.	64.	67.	78.	17:25	59.	7:23	64.
12	75.	80.	72.	93.	14:56	64.	2:50	65.
13	76.	78.	74.	91.	14:49	66.	5:16	65.
14	69.	74.	66.	82.	9:29	57.	23:51	67.
15	63.	64.	61.	75.	14:59	51.	4:39	67.
16	65.	69.	63.	80.	14:11	53.	5:18	68.
17	65.	68.	62.	77.	10:13	55.	5: 3	68.
18	66.	65.	68.	80.	16:26	58.	3:17	68.
19	69.	75.	65.	85.	13:38	62.	16: 8	68.
20	66.	68.	64.	71.	14: 7	61.	23:30	68.
21	62.	63.	62.	67.	13:27	59.	23:59	68.
22	72.	75.	69.	89.	15: 5	57.	4:31	68.
23	74.	78.	71.	86.	12:31	63.	2:39	67.
24	72.	77.	68.	88.	13:51	66.	15: 0	67.
25	73.	73.	73.	85.	13:56	65.	5:29	67.
26	68.	70.	68.	78.	16:21	59.	4:37	*
27	66.	67.	65.	78.	15: 1	54.	4:43	68.
28	72.	75.	69.	87.	15:29	58.	4:54	68.
29	75.	78.	72.	90.	14:54	63.	4: 9	69.
30	74.	76.	72.	89.	15: 7	62.	5: 4	70.
31	75.	76.	74.	84.	11:27	69.	0:58	71.
MEAN	68.	71.	66.					66.
STANDARD DEVIATION	5.9	7.0	5.5					3.0

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 80/ 5
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	1111.	N.A.	N.A.	332.	12:41	3235.	34.
2	1816.	N.A.	N.A.	326.	13: 1	3230.	56.
3	2090.	N.A.	N.A.	305.	12:49	3225.	65.
4	2174.	N.A.	N.A.	311.	12:11	3221.	68.
5	1995.	N.A.	N.A.	305.	13:15	3216.	62.
6	1818.	N.A.	N.A.	305.	12:58	3212.	57.
7	1581.	N.A.	N.A.	299.	13: 1	3207.	49.
8	1041.	N.A.	N.A.	317.	12:55	3202.	32.
9	1773.	N.A.	N.A.	359.	11:43	3195.	56.
10	2141.	N.A.	N.A.	305.	12: 8	3190.	67.
11	839.	N.A.	N.A.	284.	13:51	3185.	26.
12	1361.	N.A.	N.A.	296.	13: 3	3181.	43.
13	1613.	N.A.	N.A.	311.	12:16	3176.	51.
14	1327.	N.A.	N.A.	269.	14:26	3172.	42.
15	2222.	N.A.	N.A.	308.	12:44	3167.	70.
16	2161.	N.A.	N.A.	305.	12:30	3163.	68.
17	892.	N.A.	N.A.	263.	10:25	3158.	28.
18	1112.	N.A.	N.A.	284.	14:32	3154.	35.
19	935.	N.A.	N.A.	248.	12:35	3149.	30.
20	341.	N.A.	N.A.	112.	12: 1	3145.	11.
21	463.	N.A.	N.A.	175.	12:10	3141.	15.
22	2041.	N.A.	N.A.	290.	11:33	3137.	65.
23	1294.	N.A.	N.A.	293.	11:38	3133.	41.
24	767.	N.A.	N.A.	302.	12:25	3129.	25.
25	1136.	N.A.	N.A.	278.	11:46	3125.	36.
26	2184.	N.A.	N.A.	302.	12:40	3121.	70.
27	1894.	N.A.	N.A.	254.	11:36	3117.	61.
28	2017.	N.A.	N.A.	281.	11:57	3114.	65.
29	1936.	N.A.	N.A.	272.	12:54	3110.	62.
30	1557.	N.A.	N.A.	266.	12:19	3107.	50.
31	1169.	N.A.	N.A.	314.	13:23	3104.	38.
MEAN	1510.	N.A.	N.A.			3165.	
STANDARD DEVIATION	548.	N.A.	N.A.			40.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 80/ 5
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

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.	61.	57.	72.	14:33	50.	2:44	61.
2	65.	70.	60.	80.	16:44	55.	22:47	66.
3	67.	72.	62.	82.	15:56	52.	1:37	81.
4	71.	76.	65.	84.	15:39	60.	4:33	89.
5	73.	80.	66.	90.	13:53	51.	5:21	64.
6	72.	80.	65.	92.	13:36	55.	5:20	68.
7	67.	75.	60.	86.	13:22	51.	4:56	65.
8	54.	56.	51.	66.	15: 3	43.	23:59	63.
9	51.	56.	46.	65.	14:44	39.	23: 4	66.
10	60.	67.	53.	76.	15:25	35.	5: 1	84.
11	62.	62.	62.	77.	16:10	55.	10: 0	81.
12	72.	79.	64.	92.	13:24	58.	5:14	66.
13	75.	80.	70.	91.	16:24	62.	2: 8	68.
14	65.	69.	60.	75.	9:17	50.	23:56	66.
15	58.	63.	53.	69.	16:29	44.	2:52	65.
16	62.	68.	55.	77.	14:33	41.	5: 6	65.
17	61.	65.	56.	71.	11:29	49.	4: 6	68.
18	64.	66.	63.	79.	16:45	55.	0:54	69.
19	69.	75.	63.	87.	12:29	59.	2:59	63.
20	63.	64.	62.	66.	12: 1	61.	23:43	66.
21	61.	62.	60.	70.	17:31	56.	21:25	66.
22	70.	78.	62.	88.	15:55	54.	3:12	67.
23	72.	78.	66.	89.	13: 8	57.	4: 4	67.
24	69.	73.	66.	84.	12:25	64.	3:42	70.
25	71.	74.	67.	83.	13:43	62.	23:46	69.
26	66.	69.	63.	77.	16: 8	56.	5: 6	73.
27	65.	69.	61.	78.	16:12	50.	3:57	65.
28	71.	77.	65.	87.	14:32	54.	3:30	64.
29	74.	79.	69.	90.	14:41	59.	3:55	67.
30	72.	76.	68.	86.	14:43	59.	4:51	68.
31	73.	76.	70.	87.	13:34	65.	4:51	75.
MEAN	66.	71.	62.					69.
STANDARD DEVIATION	6.2	7.2	5.8					6.6

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 80/ 5
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	136.	5.	145.	6.	15.	153.	14:12
2	143.	3.	143.	4.	14.	157.	8:50
3	101.	3.	121.	3.	12.	107.	10:25
4	114.	4.	131.	5.	15.	92.	0:44
5	74.	4.	72.	5.	12.	126.	10:9
6	70.	4.	65.	5.	16.	28.	14:18
7	44.	4.	10.	5.	14.	345.	13:12
8	91.	4.	11.	3.	12.	137.	2:10
9	113.	4.	117.	5.	13.	135.	10:44
10	353.	3.	354.	5.	14.	7.	16:40
11	360.	3.	0.	5.	11.	21.	8:2
12	*	1.	*	2.	11.	*	16:4
13	40.	5.	43.	6.	16.	28.	13:14
14	138.	4.	128.	5.	19.	118.	11:9
15	140.	3.	143.	5.	13.	120.	6:58
16	*	1.	*	2.	9.	*	12:9
17	327.	3.	330.	5.	14.	28.	9:53
18	334.	3.	337.	4.	13.	298.	14:59
19	*	1.	*	2.	7.	*	8:8
20	199.	3.	208.	3.	11.	245.	22:29
21	179.	3.	174.	4.	12.	230.	8:15
22	*	2.	*	3.	12.	*	8:27
23	*	2.	*	3.	9.	*	11:54
24	*	1.	*	1.	6.	*	11:15
25	148.	4.	130.	5.	15.	193.	23:30
26	154.	5.	149.	5.	15.	117.	13:6
27	123.	3.	126.	5.	13.	138.	12:29
28	72.	2.	75.	3.	9.	70.	16:3
29	*	2.	*	3.	8.	*	17:39
30	317.	2.	314.	3.	8.	84.	23:47
31	10.	4.	359.	4.	19.	7.	16:41
MEAN	157.	3.	154.	4.			
STANDARD DEVIATION	104.6	1.2	110.1	1.3			

ENVIRONMENTAL SUMMARY REPORT

SITE: LOUDOUN COUNTY SCHOOL
LEESBURG, VIRGINIA

REPORT PERIOD: 80/ 5
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	3	20	1	0	0	0	0	0	0
2	13	10	1	0	0	0	0	0	0
3	17	7	0	0	0	0	0	0	0
4	8	16	0	0	0	0	0	0	0
5	14	8	2	0	0	0	0	0	0
6	12	11	1	0	0	0	0	0	0
7	10	11	3	0	0	0	0	0	0
8	12	12	0	0	0	0	0	0	0
9	12	12	0	0	0	0	0	0	0
10	11	12	1	0	0	0	0	0	0
11	15	9	0	0	0	0	0	0	0
12	21	3	0	0	0	0	0	0	0
13	9	12	3	0	0	0	0	0	0
14	12	6	6	0	0	0	0	0	0
15	12	12	0	0	0	0	0	0	0
16	22	2	0	0	0	0	0	0	0
17	14	9	1	0	0	0	0	0	0
18	18	6	0	0	0	0	0	0	0
19	23	1	0	0	0	0	0	0	0
20	16	8	0	0	0	0	0	0	0
21	16	8	0	0	0	0	0	0	0
22	17	7	0	0	0	0	0	0	0
23	18	6	0	0	0	0	0	0	0
24	22	1	0	0	0	0	0	0	1
25	9	14	1	0	0	0	0	0	0
26	7	16	1	0	0	0	0	0	0
27	15	9	0	0	0	0	0	0	0
28	18	6	0	0	0	0	0	0	0
29	21	3	0	0	0	0	0	0	0
30	22	2	0	0	0	0	0	0	0
31	14	4	5	0	0	0	0	0	1
AVERAGE	14.6	8.5	0.8	0.0	0.0	0.0	0.0	0.0	0.1
TOTAL	453	263	26	0	0	0	0	0	2

ENVIRONMENTAL SUMMARY REPORT

SITE: MOULDER CORPORATION
GREENWOOD, INDIANA

REPORT PERIOD: 80/ 5
SITE NUMBER: 50

LATITUDE: 39.50 DEG NORTH AZIMUTH: 6 DEG TIME ZONE: CENTRAL
LONGITUDE: 86.25 DEG WEST PYRANOMETER TILT: 45 DEG 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	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1476.	N.A.	N.A.	345.	12: 7	3033.	49.
2	1243.	N.A.	N.A.	235.	10: 0	3024.	41.
3	1827.	N.A.	N.A.	312.	12: 7	3015.	61.
4	*	N.A.	N.A.	*	*:*	3007.	*
5	2038.	N.A.	N.A.	324.	12: 2	2998.	68.
6	*	N.A.	N.A.	*	*:*	2989.	*
7	1618.	N.A.	N.A.	327.	12: 9	2981.	54.
8	1438.	N.A.	N.A.	361.	13: 1	2972.	48.
9	2202.	N.A.	N.A.	299.	12:40	2964.	74.
10	1158.	N.A.	N.A.	287.	13:33	2955.	39.
11	1125.	N.A.	N.A.	290.	12:45	2950.	38.
12	673.	N.A.	N.A.	247.	10:15	2941.	23.
13	2033.	N.A.	N.A.	299.	13: 6	2933.	69.
14	1855.	N.A.	N.A.	339.	12: 2	2925.	63.
15	1998.	N.A.	N.A.	315.	12:53	2918.	68.
16	614.	N.A.	N.A.	104.	8:12	2910.	21.
17	284.	N.A.	N.A.	70.	14:24	2905.	10.
18	1043.	N.A.	N.A.	302.	12:46	2897.	36.
19	1040.	N.A.	N.A.	257.	11:37	2887.	36.
20	1218.	N.A.	N.A.	220.	12:44	2880.	42.
21	1783.	N.A.	N.A.	287.	13: 2	2873.	62.
22	1750.	N.A.	N.A.	272.	11:52	2866.	61.
23	1199.	N.A.	N.A.	293.	12: 6	2860.	42.
24	1177.	N.A.	N.A.	296.	12:27	2856.	41.
25	1829.	N.A.	N.A.	254.	12:27	2850.	64.
26	2095.	N.A.	N.A.	287.	12:26	2843.	74.
27	2275.	N.A.	N.A.	269.	12:42	2837.	80.
28	2067.	N.A.	N.A.	275.	12:28	2832.	73.
29	1805.	N.A.	N.A.	281.	13: 7	2826.	64.
30	1409.	N.A.	N.A.	293.	13:37	2820.	50.
31	2062.	N.A.	N.A.	284.	12:22	2815.	73.
MEAN	1529.	N.A.	N.A.			2915.	
STANDARD DEVIATION	516.	N.A.	N.A.			67.	

ENVIRONMENTAL SUMMARY REPORT

SITE: MOULDER CORPORATION
GREENWOOD, INDIANA

REPORT PERIOD: 80/ 5
SITE NUMBER: 50

LATITUDE: 39.50 DEG NORTH AZIMUTH: 6 DEG TIME ZONE: CENTRAL
LONGITUDE: 86.25 DEG WEST PYRANOMETER TILT: 45 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	57.	63.	50.	69.	12:17	43.	5:11	*
2	60.	66.	54.	73.	13:55	46.	0:3	*
3	64.	71.	56.	78.	15:3	49.	5:16	*
4	62.	73.	55.	86.	15:36	45.	5:0	*
5	68.	77.	60.	84.	14:26	48.	4:24	*
6	65.	69.	62.	77.	13:50	56.	5:7	*
7	54.	56.	51.	64.	15:41	40.	23:25	*
8	47.	53.	42.	59.	15:4	34.	23:57	*
9	53.	60.	46.	67.	16:34	34.	0:2	*
10	60.	65.	56.	71.	16:34	42.	2:58	*
11	70.	73.	67.	81.	15:25	62.	5:12	*
12	68.	69.	66.	76.	13:16	61.	8:12	*
13	68.	75.	61.	80.	13:6	51.	23:57	*
14	55.	60.	51.	67.	14:42	44.	23:38	*
15	59.	66.	52.	74.	14:39	40.	4:5	*
16	56.	59.	54.	63.	10:36	50.	4:44	*
17	61.	62.	60.	63.	14:24	57.	0:27	*
18	64.	67.	61.	73.	12:46	59.	21:29	*
19	63.	66.	60.	70.	12:25	58.	4:46	*
20	63.	68.	58.	74.	12:44	52.	23:58	*
21	65.	72.	58.	79.	14:54	49.	4:46	*
22	69.	74.	64.	80.	14:42	55.	4:13	*
23	67.	71.	64.	79.	16:5	60.	23:55	*
24	65.	69.	62.	77.	14:24	58.	4:0	*
25	70.	77.	64.	85.	15:11	54.	4:48	*
26	65.	71.	59.	79.	15:0	53.	4:36	*
27	62.	69.	50.	80.	14:55	46.	4:58	*
28	70.	78.	63.	86.	15:10	48.	4:18	*
29	74.	81.	68.	86.	13:29	62.	2:59	*
30	73.	77.	70.	81.	14:30	65.	1:58	*
31	72.	77.	68.	83.	15:45	60.	22:25	*
MEAN	64.	69.	58.					0.
STANDARD DEVIATION	6.4	6.9	6.7					*

ENVIRONMENTAL SUMMARY REPORT

SITE: PADONIA ELEMENTARY SCHOOL
COCKEYSVILLE, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 126

LATITUDE: 39.14 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.52 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 350 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	
						PERCENT	
				TIME			
				HR:MN			
1	1055.	700.	356.	271.	13: 3	3016.	35.
2	1392.	665.	727.	313.	11:40	3006.	46.
3	1977.	555.	1422.	299.	12:34	2997.	66.
4	2101.	409.	1692.	293.	12: 7	2991.	70.
5	2040.	471.	1569.	296.	12:28	2982.	68.
6	1792.	537.	1255.	273.	12:30	2973.	60.
7	1753.	534.	1219.	276.	12:16	2964.	59.
8	774.	636.	137.	201.	13:50	2955.	26.
9	1506.	686.	820.	343.	12:34	2949.	51.
10	2164.	428.	1736.	299.	11:41	2941.	74.
11	672.	524.	148.	246.	14:26	2932.	23.
12	1395.	857.	538.	271.	11:38	2924.	48.
13	1767.	576.	1191.	304.	11:59	2916.	61.
14	1399.	898.	501.	257.	14:48	2907.	48.
15	2280.	386.	1894.	301.	12:20	2899.	79.
16	2261.	402.	1859.	299.	11:38	2891.	78.
17	1531.	887.	644.	354.	12:44	2884.	53.
18	569.	492.	77.	120.	16:37	2876.	20.
19	1355.	784.	572.	276.	10:29	2871.	47.
20	385.	354.	31.	89.	12:39	2864.	13.
21	287.	257.	31.	70.	13:22	2857.	10.
22	2220.	518.	1702.	290.	11:20	2850.	78.
23	1830.	817.	1013.	313.	11:28	2843.	64.
24	689.	551.	138.	240.	9:54	2836.	24.
25	1621.	906.	714.	246.	11: 4	2830.	57.
26	2353.	422.	1931.	307.	11:57	2823.	83.
27	1931.	848.	1083.	262.	11:46	2817.	69.
28	2170.	552.	1618.	290.	12:17	2811.	77.
29	2010.	731.	1280.	276.	12:17	2805.	72.
30	1775.	980.	795.	268.	11:38	2800.	63.
31	1078.	770.	308.	257.	11:40	2795.	39.
MEAN	1553.	617.	935.			2897.	
STANDARD DEVIATION	602.	191.	626.			68.	

ENVIRONMENTAL SUMMARY REPORT

SITE: PADONIA ELEMENTARY SCHOOL
COCKEYSVILLE, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 126

LATITUDE: 39.14 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.52 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 350 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.	64.	54.	74.	13:56	50.	0:52	N.A.
2	61.	69.	55.	79.	13: 5	50.	5: 5	N.A.
3	67.	73.	61.	81.	13:16	50.	2:36	N.A.
4	69.	75.	63.	82.	17: 5	58.	3:30	N.A.
5	73.	81.	65.	89.	14:36	50.	5: 5	N.A.
6	71.	79.	63.	88.	12:14	54.	5: 7	N.A.
7	67.	73.	60.	82.	14:24	52.	5:30	N.A.
8	53.	55.	52.	64.	16:52	46.	23:46	N.A.
9	51.	57.	46.	62.	14:42	40.	4:56	N.A.
10	56.	64.	49.	74.	14:48	35.	4:24	N.A.
11	61.	62.	60.	71.	17:56	56.	2:48	N.A.
12	70.	77.	63.	86.	14:23	59.	4:58	N.A.
13	74.	78.	70.	87.	15:59	62.	3:11	N.A.
14	65.	69.	61.	74.	10: 0	50.	23:53	N.A.
15	58.	65.	51.	71.	15:37	43.	4:36	N.A.
16	60.	69.	51.	79.	15:22	41.	4: 0	N.A.
17	62.	69.	56.	75.	12:55	48.	5: 0	N.A.
18	62.	64.	61.	72.	17:20	56.	2:15	N.A.
19	68.	74.	62.	83.	10:40	60.	4:59	N.A.
20	64.	65.	62.	69.	15: 8	60.	23:46	N.A.
21	59.	60.	59.	66.	18:31	53.	23:57	N.A.
22	69.	79.	59.	90.	14:11	49.	3:52	N.A.
23	72.	79.	65.	90.	12:59	54.	4: 0	N.A.
24	71.	74.	68.	87.	10:16	65.	4:24	N.A.
25	74.	80.	68.	87.	12: 8	61.	23:57	N.A.
26	65.	71.	59.	77.	14:26	52.	5:17	N.A.
27	62.	70.	55.	76.	16:13	45.	4:34	N.A.
28	67.	75.	60.	84.	14: 9	49.	2:46	N.A.
29	71.	80.	63.	90.	13:53	56.	3: 7	N.A.
30	70.	76.	65.	82.	14:12	59.	4:58	N.A.
31	73.	76.	70.	84.	14:31	65.	1:32	N.A.
MEAN	65.	71.	60.					N.A.
STANDARD DEVIATION	6.2	7.2	6.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: PADONIA ELEMENTARY SCHOOL
COCKEYSVILLE, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 126

LATITUDE: 39.14 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.52 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 350 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	168.	3.	184.	3.	10.	141.	15:16
2	*	1.	*	2.	7.	*	18:15
3	94.	2.	112.	3.	9.	85.	16:23
4	133.	3.	131.	5.	13.	141.	13:10
5	77.	3.	77.	5.	14.	60.	15:13
6	73.	3.	63.	4.	12.	62.	14:22
7	48.	3.	24.	3.	17.	58.	16:21
8	74.	2.	16.	1.	10.	56.	20: 4
9	122.	3.	122.	5.	10.	73.	7:14
10	11.	3.	25.	4.	11.	25.	12: 2
11	352.	3.	357.	3.	8.	10.	0:45
12	*	1.	*	2.	12.	*	18:23
13	50.	5.	54.	6.	16.	63.	11:59
14	118.	5.	108.	6.	18.	135.	11:57
15	143.	2.	143.	4.	11.	149.	13:50
16	*	1.	*	2.	7.	*	11:22
17	340.	3.	345.	4.	13.	348.	20:55
18	*	2.	*	2.	10.	*	9:43
19	*	1.	*	2.	11.	*	16:11
20	*	2.	*	1.	16.	*	19:57
21	210.	2.	175.	2.	8.	243.	1:22
22	*	1.	*	2.	6.	*	8:19
23	*	1.	*	2.	8.	*	13:31
24	*	1.	*	1.	6.	*	13:17
25	185.	2.	195.	3.	9.	175.	18:26
26	149.	3.	146.	4.	15.	138.	14:42
27	132.	3.	132.	5.	14.	144.	14:26
28	*	1.	*	3.	9.	*	15:29
29	*	1.	*	1.	8.	*	22: 2
30	*	2.	*	3.	10.	*	13:24
31	12.	3.	1.	3.	11.	30.	21:32
MEAN	131.	2.	127.	3.			
STANDARD DEVIATION	93.4	1.0	98.0	1.4			

ENVIRONMENTAL SUMMARY REPORT

SITE: PADONIA ELEMENTARY SCHOOL
COCKEYSVILLE, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 126

LATITUDE: 39.14 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.52 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 350 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	24	0	0	0	0	0	0	0	0
3	21	3	0	0	0	0	0	0	0
4	15	9	0	0	0	0	0	0	0
5	17	6	1	0	0	0	0	0	0
6	16	8	0	0	0	0	0	0	0
7	17	7	0	0	0	0	0	0	0
8	20	4	0	0	0	0	0	0	0
9	14	10	0	0	0	0	0	0	0
10	11	13	0	0	0	0	0	0	0
11	20	4	0	0	0	0	0	0	0
12	23	1	0	0	0	0	0	0	0
13	9	14	1	0	0	0	0	0	0
14	10	12	2	0	0	0	0	0	0
15	17	7	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	14	10	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	23	1	0	0	0	0	0	0	0
20	19	5	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	23	1	0	0	0	0	0	0	0
24	24	0	0	0	0	0	0	0	0
25	20	4	0	0	0	0	0	0	0
26	16	8	0	0	0	0	0	0	0
27	16	8	0	0	0	0	0	0	0
28	22	2	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	23	1	0	0	0	0	0	0	0
31	16	7	0	0	0	0	0	0	1
AVERAGE	19.0	4.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	588	151	4	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: PAGE JACKSON SCHOOL
CHARLES TOWN, WEST VIRGINIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 46

LATITUDE: 40.80 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: EASTERN
LONGITUDE: 82.53 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 812 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE TIME	INSOLATION	EXT INS	
				BTU/HR/FT2 HR:MN	BTU/FT2	PERCENT	
1	1628.	N.A.	N.A.	329.	11:10	3064.	53.
2	2167.	N.A.	N.A.	345.	14: 7	3055.	71.
3	2158.	N.A.	N.A.	316.	14:14	3047.	71.
4	2265.	N.A.	N.A.	309.	14:10	3039.	75.
5	2104.	N.A.	N.A.	329.	13:54	3031.	69.
6	1694.	N.A.	N.A.	326.	13:54	3023.	56.
7	1664.	N.A.	N.A.	290.	13:14	3014.	55.
8	1047.	N.A.	N.A.	335.	14:18	3006.	35.
9	1605.	N.A.	N.A.	338.	14: 0	2998.	54.
10	2263.	N.A.	N.A.	351.	13:43	2990.	76.
11	762.	N.A.	N.A.	306.	14:25	2983.	26.
12	1283.	N.A.	N.A.	268.	10:41	2978.	43.
13	1601.	N.A.	N.A.	351.	13:31	2970.	54.
14	1509.	N.A.	N.A.	338.	13:47	2963.	51.
15	2538.	N.A.	N.A.	377.	13:43	2955.	86.
16	2274.	N.A.	N.A.	358.	13:40	2948.	77.
17	632.	N.A.	N.A.	190.	9:52	2941.	21.
18	1400.	N.A.	N.A.	371.	13:53	2934.	48.
19	975.	N.A.	N.A.	313.	10:51	2927.	33.
20	352.	N.A.	N.A.	68.	12:40	2920.	12.
21	553.	N.A.	N.A.	274.	12:13	2913.	19.
22	2155.	N.A.	N.A.	367.	13:13	2907.	74.
23	1527.	N.A.	N.A.	351.	13:12	2900.	53.
24	1358.	N.A.	N.A.	387.	13:15	2894.	47.
25	1388.	N.A.	N.A.	293.	13: 4	2888.	48.
26	2312.	N.A.	N.A.	413.	13: 5	2882.	80.
27	2028.	N.A.	N.A.	300.	13: 5	2876.	71.
28	2251.	N.A.	N.A.	367.	13: 2	2874.	78.
29	2098.	N.A.	N.A.	351.	13: 6	2868.	73.
30	1757.	N.A.	N.A.	313.	12:57	2863.	61.
31	1243.	N.A.	N.A.	351.	13:18	2858.	44.
MEAN	1632.	N.A.	N.A.			2952.	
STANDARD DEVIATION	582.	N.A.	N.A.			63.	

ENVIRONMENTAL SUMMARY REPORT

SITE: PAGE JACKSON SCHOOL
CHARLES TOWN, WEST VIRGINIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 46

LATITUDE: 40.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 82.53 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 812 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	58.	62.	54.	70.	14:48	49.	1:12	N.A.
2	62.	69.	56.	84.	14:50	46.	5:51	N.A.
3	65.	72.	57.	84.	14:30	48.	4:49	N.A.
4	67.	74.	60.	82.	15: 4	52.	3:45	N.A.
5	70.	79.	61.	89.	13:54	49.	5:33	N.A.
6	68.	76.	60.	89.	12:44	54.	5: 0	N.A.
7	63.	71.	55.	83.	13:25	48.	5: 3	N.A.
8	53.	58.	50.	69.	15:11	40.	23:31	N.A.
9	48.	55.	42.	64.	15:52	32.	4:45	N.A.
10	58.	65.	51.	77.	15:13	36.	5:11	N.A.
11	64.	66.	63.	80.	15:19	55.	9:43	N.A.
12	72.	80.	64.	89.	15:39	61.	3:23	N.A.
13	73.	79.	68.	88.	14:57	62.	0: 1	N.A.
14	62.	67.	57.	69.	10:19	46.	23: 8	N.A.
15	55.	60.	48.	69.	15: 8	44.	23:54	N.A.
16	59.	68.	50.	80.	15:22	38.	4:36	N.A.
17	60.	65.	56.	68.	10:18	51.	4:42	N.A.
18	64.	68.	60.	82.	15:29	53.	0: 0	N.A.
19	67.	72.	61.	86.	12:11	59.	3:55	N.A.
20	62.	64.	61.	66.	12:34	60.	20:55	N.A.
21	62.	63.	60.	74.	17:17	56.	23:59	N.A.
22	69.	77.	61.	90.	15:32	54.	2:33	N.A.
23	71.	79.	64.	88.	13:23	55.	5:12	N.A.
24	71.	77.	65.	83.	12:59	62.	22:29	N.A.
25	71.	76.	65.	82.	16:21	58.	23:50	N.A.
26	63.	68.	58.	76.	15:56	45.	5: 5	N.A.
27	63.	69.	57.	78.	15:34	44.	4:49	N.A.
28	68.	78.	57.	88.	14:48	50.	3:10	N.A.
29	73.	80.	66.	88.	14:47	54.	5:16	N.A.
30	71.	76.	66.	85.	13:29	60.	5: 2	N.A.
31	73.	76.	69.	87.	14: 0	65.	5:28	N.A.
MEAN	65.	71.	59.					N.A.
STANDARD DEVIATION	6.2	7.0	6.2					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: RADEMAKER CORPORATION
LOUISVILLE, KENTUCKY

REPORT PERIOD: 80/ 5
SITE NUMBER: 8

LATITUDE: 38.20 DEG NORTH
LONGITUDE: 85.70 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 53 DEG

TIME ZONE: EASTERN
ALTITUDE: 474 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE TIME	INSOLATION	EXT INS	
				BTU/HR/FT2 HR:MN	BTU/FT2	PERCENT	
1	1402.	N.A.	N.A.	321.	12:46	2729.	51.
2	1180.	N.A.	N.A.	304.	12:26	2718.	43.
3	1400.	N.A.	N.A.	296.	13:54	2705.	52.
4	1993.	N.A.	N.A.	304.	13:12	2692.	74.
5	1852.	N.A.	N.A.	293.	12:29	2682.	69.
6	1486.	N.A.	N.A.	282.	12:56	2669.	56.
7	1455.	N.A.	N.A.	267.	11:37	2656.	55.
8	1752.	N.A.	N.A.	330.	13:35	2644.	66.
9	*	N.A.	N.A.	*	*:*	2634.	*
10	*	N.A.	N.A.	*	*:*	2622.	*
11	1044.	N.A.	N.A.	259.	13:36	2612.	40.
12	660.	N.A.	N.A.	202.	10:44	2601.	25.
13	1823.	N.A.	N.A.	304.	13:51	2589.	70.
14	1258.	N.A.	N.A.	284.	13:22	2578.	49.
15	2073.	N.A.	N.A.	293.	12:50	2569.	81.
16	240.	N.A.	N.A.	57.	10:23	2558.	9.
17	262.	N.A.	N.A.	57.	10:13	2548.	10.
18	1606.	N.A.	N.A.	310.	12:49	2537.	63.
19	808.	N.A.	N.A.	196.	10:41	2529.	32.
20	1428.	N.A.	N.A.	262.	14:28	2519.	57.
21	1644.	N.A.	N.A.	290.	13:29	2512.	65.
22	1310.	N.A.	N.A.	225.	13:53	2503.	52.
23	1451.	N.A.	N.A.	313.	13: 1	2493.	58.
24	951.	N.A.	N.A.	259.	12: 1	2484.	38.
25	1603.	N.A.	N.A.	259.	13:53	2476.	65.
26	2033.	N.A.	N.A.	287.	13: 6	2469.	82.
27	1863.	N.A.	N.A.	267.	13: 6	2461.	76.
28	1894.	N.A.	N.A.	273.	12:59	2453.	77.
29	1586.	N.A.	N.A.	264.	12:59	2446.	65.
30	1206.	N.A.	N.A.	270.	12:13	2438.	49.
31	1482.	N.A.	N.A.	293.	12:55	2431.	61.
MEAN	1405.	N.A.	N.A.			2566.	
STANDARD DEVIATION	476.	N.A.	N.A.			91.	

ENVIRONMENTAL SUMMARY REPORT

SITE: RADEMAKER CORPORATION
LOUISVILLE, KENTUCKY

REPORT PERIOD: 80/ 5
SITE NUMBER: 8

LATITUDE: 38.20 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 85.70 DEG WEST PYRANOMETER TILT: 53 DEG ALTITUDE: 474 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	56.	65.	47.	77.	16:42	38.	4: 3	79.
2	58.	67.	50.	78.	14: 2	39.	4:53	81.
3	64.	72.	56.	84.	16:18	48.	23:41	85.
4	67.	79.	55.	92.	13:28	44.	5:17	91.
5	68.	79.	59.	93.	13:33	47.	3:57	98.
6	67.	74.	60.	84.	15:15	50.	22:28	100.
7	58.	66.	50.	74.	13:56	40.	23:43	108.
8	51.	59.	44.	70.	14:13	33.	5:30	109.
9	43.	56.	33.	65.	11:21	30.	3:42	99.
10	72.	73.	71.	78.	17:30	68.	22:50	98.
11	73.	76.	70.	83.	14:29	62.	4:53	95.
12	72.	76.	68.	84.	12:47	63.	23:27	95.
13	72.	79.	65.	89.	15:11	58.	23:56	97.
14	57.	62.	53.	74.	15:46	44.	23:46	104.
15	59.	67.	51.	75.	15:14	39.	4:34	101.
16	57.	57.	57.	63.	10:39	54.	5:40	92.
17	60.	61.	60.	63.	13:57	59.	8: 0	89.
18	68.	74.	63.	82.	15: 2	58.	2:40	94.
19	67.	71.	63.	77.	15:43	58.	23:38	94.
20	66.	74.	59.	84.	14:44	51.	4:36	98.
21	68.	77.	59.	89.	15:52	51.	5:18	102.
22	70.	77.	64.	85.	14:57	57.	2:46	102.
23	70.	77.	63.	86.	15:21	61.	20:22	105.
24	64.	68.	61.	79.	12:38	58.	22:57	101.
25	72.	79.	67.	90.	15:35	57.	2:46	95.
26	68.	73.	62.	83.	15:51	56.	22:47	103.
27	67.	77.	58.	90.	15:14	51.	4:55	102.
28	72.	84.	61.	97.	14: 9	46.	5: 5	119.
29	74.	85.	64.	93.	12:59	58.	4:11	105.
30	73.	77.	70.	86.	14: 5	64.	5:43	93.
31	74.	79.	71.	88.	15:29	65.	23:29	90.
MEAN	65.	72.	59.					98.
STANDARD DEVIATION	7.5	7.8	8.5					8.2

ENVIRONMENTAL SUMMARY REPORT

SITE: SIR GALAHAD
VIRGINIA BEACH, VIRGINIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 75

LATITUDE: 36.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.00 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 26 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	137.	N.A.	N.A.	84.	9:46	2948.	5.
2	2047.	N.A.	N.A.	286.	11:12	2938.	70.
3	1849.	N.A.	N.A.	277.	11:54	2927.	63.
4	1975.	N.A.	N.A.	280.	12: 9	2917.	68.
5	1959.	N.A.	N.A.	273.	12: 9	2907.	67.
6	1675.	N.A.	N.A.	280.	12:13	2900.	58.
7	1927.	N.A.	N.A.	273.	11:56	2890.	67.
8	402.	N.A.	N.A.	109.	7:48	2880.	14.
9	2069.	N.A.	N.A.	309.	12:17	2873.	72.
10	2082.	N.A.	N.A.	289.	12: 6	2864.	73.
11	*	N.A.	N.A.	*	*:*	2854.	*
12	1824.	N.A.	N.A.	280.	12:24	2845.	64.
13	1263.	N.A.	N.A.	289.	11:55	2836.	45.
14	1490.	N.A.	N.A.	280.	11: 4	2827.	53.
15	1424.	N.A.	N.A.	296.	13:48	2818.	51.
16	2094.	N.A.	N.A.	286.	12: 9	2809.	75.
17	1983.	N.A.	N.A.	286.	11:34	2803.	71.
18	881.	N.A.	N.A.	286.	13:17	2795.	32.
19	1592.	N.A.	N.A.	273.	12: 8	2786.	57.
20	583.	N.A.	N.A.	177.	9: 1	2778.	21.
21	710.	N.A.	N.A.	248.	14:16	2770.	26.
22	1588.	N.A.	N.A.	254.	12:13	2763.	57.
23	817.	N.A.	N.A.	196.	10:31	2755.	30.
24	1037.	N.A.	N.A.	244.	11:57	2748.	38.
25	826.	N.A.	N.A.	299.	11:46	2743.	30.
26	1921.	N.A.	N.A.	270.	12:50	2736.	70.
27	1869.	N.A.	N.A.	264.	11:30	2730.	68.
28	1863.	N.A.	N.A.	264.	12:53	2723.	68.
29	1682.	N.A.	N.A.	267.	12:19	2717.	62.
30	1443.	N.A.	N.A.	254.	12:23	2711.	53.
31	1634.	N.A.	N.A.	251.	12:39	2707.	60.
MEAN	1488.	N.A.	N.A.			2816.	
STANDARD DEVIATION	558.	N.A.	N.A.			74.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SIR GALAHAD
VIRGINIA BEACH, VIRGINIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 75

LATITUDE: 36.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.00 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 26 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	54.	55.	52.	56.	9:57	49.	22:45	70.
2	57.	65.	49.	71.	12:10	46.	23:38	72.
3	63.	72.	54.	82.	15: 1	45.	2:13	69.
4	68.	77.	60.	87.	16:52	53.	4:26	81.
5	72.	82.	63.	93.	14:38	55.	2:49	77.
6	73.	80.	67.	94.	15: 4	60.	3:57	81.
7	71.	79.	64.	89.	15: 8	56.	5:16	81.
8	59.	60.	59.	69.	0:20	48.	23:40	80.
9	55.	60.	49.	67.	16:12	42.	23:56	77.
10	58.	69.	48.	78.	14: 4	37.	5: 5	77.
11	64.	72.	59.	82.	13: 0	53.	0:54	*
12	78.	84.	71.	94.	14:38	63.	3:31	92.
13	79.	83.	75.	92.	12:27	69.	5:25	*
14	78.	84.	73.	89.	12:19	63.	23:51	*
15	62.	66.	59.	76.	16:12	50.	23:58	80.
16	59.	68.	51.	76.	14:33	46.	4:41	74.
17	61.	69.	54.	76.	13:31	44.	4:17	75.
18	70.	73.	68.	85.	16:45	61.	0: 1	82.
19	76.	83.	69.	94.	13:33	67.	23:25	81.
20	69.	72.	67.	76.	9:54	66.	18:53	79.
21	69.	71.	67.	78.	14:26	61.	21:54	82.
22	71.	79.	64.	87.	15:14	56.	4:23	84.
23	74.	80.	68.	86.	14:42	65.	3:30	81.
24	73.	78.	68.	91.	12:50	66.	20:40	80.
25	71.	75.	68.	81.	12:45	63.	5: 1	80.
26	67.	72.	62.	77.	14:42	52.	23:51	79.
27	65.	72.	58.	78.	16:13	52.	1: 6	80.
28	69.	78.	61.	90.	16:26	53.	2:39	86.
29	76.	85.	66.	95.	13:44	61.	0: 3	85.
30	77.	84.	71.	93.	14:42	66.	4:28	91.
31	78.	84.	73.	90.	14: 9	67.	5: 5	*
MEAN	68.	75.	62.					80.
STANDARD DEVIATION	7.4	8.0	7.7					5.3

ENVIRONMENTAL SUMMARY REPORT

SITE: TERRELL E. MOSELEY
LYNCHBURG, VIRGINIA

REPORT PERIOD: 80/ 5
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	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	684.	N.A.	N.A.	282.	12:46	2809.	24.
2	1421.	N.A.	N.A.	303.	11: 4	2797.	51.
3	1865.	N.A.	N.A.	288.	12: 0	2784.	67.
4	1913.	N.A.	N.A.	279.	11:54	2775.	69.
5	1826.	N.A.	N.A.	270.	12:10	2763.	66.
6	1762.	N.A.	N.A.	282.	12: 5	2751.	64.
7	1828.	N.A.	N.A.	273.	12: 6	2739.	67.
8	400.	N.A.	N.A.	150.	14:57	2728.	15.
9	1749.	N.A.	N.A.	309.	11:20	2719.	64.
10	1934.	N.A.	N.A.	276.	11:50	2708.	71.
11	1259.	N.A.	N.A.	264.	12:59	2699.	47.
12	1373.	N.A.	N.A.	264.	12: 2	2688.	51.
13	843.	N.A.	N.A.	276.	12: 1	2677.	31.
14	1171.	N.A.	N.A.	267.	11:57	2667.	44.
15	1891.	N.A.	N.A.	279.	12:20	2656.	71.
16	1813.	N.A.	N.A.	270.	12: 8	2649.	68.
17	809.	N.A.	N.A.	291.	12: 7	2639.	31.
18	1462.	N.A.	N.A.	273.	11:19	2629.	56.
19	1193.	N.A.	N.A.	249.	10: 9	2619.	46.
20	297.	N.A.	N.A.	81.	11:19	2610.	11.
21	1427.	N.A.	N.A.	312.	12:47	2603.	55.
22	1402.	N.A.	N.A.	255.	13:34	2594.	54.
23	718.	N.A.	N.A.	204.	11:31	2586.	28.
24	1251.	N.A.	N.A.	258.	13:10	2580.	48.
25	838.	N.A.	N.A.	171.	15:18	2572.	33.
26	1816.	N.A.	N.A.	267.	11:40	2564.	71.
27	1590.	N.A.	N.A.	228.	11:50	2556.	62.
28	1592.	N.A.	N.A.	234.	12: 8	2548.	62.
29	1649.	N.A.	N.A.	246.	12:28	2541.	65.
30	1306.	N.A.	N.A.	231.	11:53	2534.	52.
31	1376.	N.A.	N.A.	270.	11:57	2530.	54.
MEAN	1370.	N.A.	N.A.			2655.	
STANDARD DEVIATION	462.	N.A.	N.A.			86.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TERRELL E. MOSELEY
LYNCHBURG, VIRGINIA

REPORT PERIOD: 80/ 5
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		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	58.	63.	54.	74.	13:23	43.	3:37	N.A.
2	61.	70.	53.	79.	13:28	45.	5:28	N.A.
3	65.	74.	57.	83.	16:54	46.	5:26	N.A.
4	68.	79.	59.	89.	14:44	48.	5:20	N.A.
5	68.	80.	58.	90.	15:43	44.	5:24	N.A.
6	69.	79.	61.	86.	16:33	48.	4:43	N.A.
7	71.	78.	66.	86.	15:55	52.	5:32	N.A.
8	52.	51.	52.	67.	0: 1	43.	23:41	N.A.
9	50.	57.	43.	67.	17:20	33.	4:50	N.A.
10	57.	65.	50.	75.	16: 0	34.	4:16	N.A.
11	67.	72.	63.	85.	15:50	51.	2:46	N.A.
12	76.	82.	70.	91.	15:41	60.	2:58	N.A.
13	72.	75.	70.	86.	12:54	64.	23:35	N.A.
14	70.	75.	65.	82.	14:21	55.	23:32	N.A.
15	61.	69.	54.	79.	16:51	44.	4:57	N.A.
16	63.	70.	57.	79.	15:41	44.	4:51	N.A.
17	61.	65.	58.	72.	12: 7	54.	22:57	N.A.
18	67.	71.	64.	84.	16:17	54.	0: 7	N.A.
19	72.	79.	65.	88.	12: 7	58.	5: 5	N.A.
20	65.	67.	63.	72.	11:56	62.	22:50	N.A.
21	69.	74.	63.	83.	14:29	58.	4:58	N.A.
22	70.	77.	63.	84.	13:39	55.	4:19	N.A.
23	69.	72.	67.	79.	14:16	64.	4:56	N.A.
24	72.	76.	69.	84.	14:25	66.	23:18	N.A.
25	69.	72.	66.	80.	16:12	61.	3:55	N.A.
26	68.	74.	63.	84.	16:22	51.	23:45	N.A.
27	63.	72.	56.	84.	14:25	45.	5:16	N.A.
28	69.	78.	60.	87.	14:43	50.	4:56	N.A.
29	73.	84.	64.	93.	15:24	54.	5:11	N.A.
30	74.	81.	68.	90.	12:41	61.	4:46	N.A.
31	73.	80.	68.	88.	14:47	63.	4:13	N.A.
MEAN	67.	73.	61.					N.A.
STANDARD DEVIATION	6.3	7.3	6.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: TROY-MIAMI COUNTY LIBRARY
TROY, OHIO

REPORT PERIOD: 80/ 5
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	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	1669.	*	*	325.	13: 7	3216.	52.
2	955.	*	*	212.	10:30	3212.	30.
3	1706.	*	*	325.	12:43	3208.	53.
4	1959.	*	*	302.	13:20	3206.	61.
5	1687.	*	*	328.	13:52	3204.	53.
6	1753.	*	*	296.	13:15	3202.	55.
7	1497.	*	*	350.	13:22	3197.	47.
8	1121.	*	*	334.	13:50	3192.	35.
9	1977.	*	*	325.	13:35	3190.	62.
10	1146.	*	*	276.	13:23	3187.	36.
11	1181.	*	*	302.	13:40	3182.	37.
12	710.	*	*	276.	12:10	3180.	22.
13	2021.	*	*	325.	14:26	3177.	64.
14	1190.	*	*	341.	12:53	3174.	37.
15	2059.	*	*	328.	13:32	3169.	65.
16	1217.	*	*	235.	11:31	3166.	38.
17	206.	*	*	48.	10:55	3163.	7.
18	1164.	*	*	296.	11:53	3160.	37.
19	876.	*	*	257.	14:49	3154.	28.
20	796.	*	*	177.	11:46	3151.	25.
21	1682.	*	*	296.	13:24	3150.	53.
22	1894.	*	*	286.	13:47	3144.	60.
23	940.	*	*	225.	14:12	3141.	30.
24	1387.	*	*	312.	13:40	3140.	44.
25	1735.	*	*	251.	14:17	3134.	55.
26	2068.	*	*	302.	13:24	3130.	66.
27	1958.	*	*	292.	13:51	3127.	63.
28	1961.	*	*	292.	13:25	3123.	63.
29	1774.	*	*	292.	13:52	3120.	57.
30	1401.	*	*	296.	13:44	3116.	45.
31	1962.	*	*	309.	13:23	3113.	63.
MEAN	1473.					3165.	
STANDARD DEVIATION	480.					31.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TROY-MIAMI COUNTY LIBRARY
TROY, OHIO

REPORT PERIOD: 80/ 5
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	57.	61.	54.	73.	13:12	42.	6:16	N.A.
2	59.	63.	55.	74.	16:11	44.	5:36	N.A.
3	65.	69.	61.	82.	12:49	47.	5:42	N.A.
4	68.	73.	64.	87.	13:31	49.	5:21	N.A.
5	70.	75.	66.	90.	12:53	51.	5:47	N.A.
6	67.	68.	65.	78.	16:32	58.	5:41	N.A.
7	55.	56.	54.	65.	15:41	43.	23:58	N.A.
8	46.	49.	43.	57.	14:33	36.	4:57	N.A.
9	52.	56.	49.	68.	16:30	37.	1:24	N.A.
10	57.	61.	54.	72.	11:42	42.	5:34	N.A.
11	71.	73.	70.	83.	16:31	62.	0: 3	N.A.
12	65.	65.	64.	76.	16:20	57.	4: 4	N.A.
13	70.	75.	65.	84.	15:41	52.	23:54	N.A.
14	55.	57.	52.	66.	12:53	48.	23:56	N.A.
15	58.	62.	54.	75.	13:43	41.	5:38	N.A.
16	61.	65.	56.	75.	12:56	49.	5:34	N.A.
17	58.	60.	56.	62.	11:11	54.	1:44	N.A.
18	65.	68.	62.	76.	13:56	56.	0: 4	N.A.
19	63.	65.	60.	75.	15: 0	57.	5:56	N.A.
20	63.	64.	61.	71.	15:35	56.	4:34	N.A.
21	66.	69.	64.	80.	14: 1	55.	5:24	N.A.
22	71.	75.	67.	86.	13:26	56.	5:26	N.A.
23	70.	72.	68.	83.	16:42	60.	20:57	N.A.
24	68.	69.	66.	78.	15: 5	60.	4:57	N.A.
25	71.	75.	67.	84.	13:45	59.	23:59	N.A.
26	63.	67.	60.	77.	13:51	50.	5:24	N.A.
27	64.	67.	60.	80.	16:36	46.	5:13	N.A.
28	70.	74.	66.	85.	16:37	52.	4:48	N.A.
29	75.	78.	70.	88.	12:54	60.	4:16	N.A.
30	73.	74.	72.	86.	13:44	65.	6:26	N.A.
31	75.	78.	72.	86.	13: 2	67.	23:47	N.A.
MEAN	64.	67.	61.					N.A.
STANDARD DEVIATION	7.0	7.3	7.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: UPTON CENTER
BALTIMORE, MARYLAND

REPORT PERIOD: 80/ 5
SITE NUMBER: 36

LATITUDE: 39.20 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.60 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 172 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	942.	N.A.	N.A.	231.	12: 0	3017.	31.
2	1062.	N.A.	N.A.	306.	12: 59	3008.	35.
3	1859.	N.A.	N.A.	294.	12: 6	2999.	62.
4	1930.	N.A.	N.A.	287.	11: 56	2990.	65.
5	1986.	N.A.	N.A.	284.	12: 21	2984.	67.
6	1799.	N.A.	N.A.	265.	11: 58	2975.	60.
7	1702.	N.A.	N.A.	259.	12: 41	2966.	57.
8	504.	N.A.	N.A.	227.	14: 21	2957.	17.
9	1396.	N.A.	N.A.	310.	13: 17	2952.	47.
10	1948.	N.A.	N.A.	281.	11: 54	2943.	66.
11	431.	N.A.	N.A.	120.	16: 4	2934.	15.
12	1254.	N.A.	N.A.	262.	11: 38	2926.	43.
13	1352.	N.A.	N.A.	281.	12: 40	2918.	46.
14	1458.	N.A.	N.A.	294.	12: 42	2910.	50.
15	1993.	N.A.	N.A.	281.	11: 53	2902.	69.
16	1961.	N.A.	N.A.	275.	11: 43	2894.	68.
17	1397.	N.A.	N.A.	313.	12: 30	2886.	48.
18	382.	N.A.	N.A.	107.	16: 12	2878.	13.
19	993.	N.A.	N.A.	246.	10: 4	2871.	35.
20	304.	N.A.	N.A.	70.	12: 35	2866.	11.
21	242.	N.A.	N.A.	107.	13: 19	2859.	8.
22	1865.	N.A.	N.A.	278.	12: 5	2852.	65.
23	1566.	N.A.	N.A.	275.	11: 0	2845.	55.
24	540.	N.A.	N.A.	215.	10: 40	2839.	19.
25	1356.	N.A.	N.A.	240.	11: 39	2832.	48.
26	1976.	N.A.	N.A.	278.	11: 55	2826.	70.
27	1633.	N.A.	N.A.	237.	11: 28	2820.	58.
28	1885.	N.A.	N.A.	259.	12: 0	2814.	67.
29	1634.	N.A.	N.A.	240.	11: 31	2808.	58.
30	1404.	N.A.	N.A.	237.	12: 6	2802.	50.
31	871.	N.A.	N.A.	171.	15: 0	2797.	31.
MEAN	1343.	N.A.	N.A.			2899.	
STANDARD DEVIATION	569.	N.A.	N.A.			67.	

ENVIRONMENTAL SUMMARY REPORT

SITE: UPTON CENTER
BALTIMORE, MARYLAND

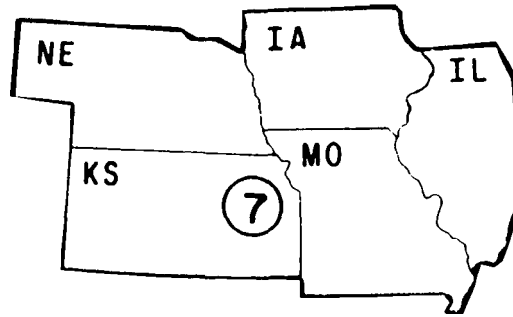
REPORT PERIOD: 80/ 5
SITE NUMBER: 36

LATITUDE: 39.20 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.60 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 172 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	54.	56.	52.	66.	12:24			60.
2	61.	68.	55.	83.	13:25	53.	4:49	59.
3	70.	78.	62.	88.	12:38	53.	5:26	80.
4	74.	81.	67.	89.	14:45	62.	5:32	80.
5	78.	87.	70.	96.	14:18	59.	4:53	64.
6	78.	87.	70.	99.	14:17	65.	5:18	67.
7	71.	80.	61.	92.	13:50	56.	23:25	64.
8	53.	55.	51.	67.	16:13	46.	23:50	65.
9	54.	60.	48.	66.	10:14	42.	5:10	64.
10	63.	74.	53.	83.	13:51	44.	3:32	81.
11	62.	64.	61.	76.	17: 3	56.	2: 7	81.
12	70.	77.	64.	86.	15:32	60.	1:51	63.
13	77.	84.	71.	95.	14:48	64.	5: 1	62.
14	68.	73.	63.	80.	10:50	53.	23:58	62.
15	63.	70.	55.	79.	15: 0	47.	4:57	64.
16	65.	74.	56.	85.	15:22	49.	3:32	68.
17	66.	72.	60.	79.	9:13	54.	4:46	79.
18	63.	63.	63.	74.	17: 5	58.	4:46	81.
19	71.	78.	63.	90.	14: 4	61.	4:49	66.
20	64.	65.	63.	68.	12:46	60.	23:43	62.
21	60.	60.	59.	64.	14: 7	56.	23:27	63.
22	74.	83.	64.	96.	14:23	54.	2:45	63.
23	78.	88.	69.	98.	13:50	61.	4:52	63.
24	72.	74.	69.	92.	10:40	65.	14:24	78.
25	75.	81.	70.	90.	13:47	64.	23:55	79.
26	69.	76.	62.	83.	13:57	55.	4:48	67.
27	67.	74.	61.	82.	14:40	54.	4:37	68.
28	73.	82.	65.	91.	13:47	56.	4:54	67.
29	73.	79.	67.	89.	13: 2	60.	3:20	65.
30	72.	77.	67.	83.	16: 0	62.	5:10	80.
31	76.	79.	72.	90.	15:37	66.	3:48	79.
MEAN	68.	74.	62.					69.
STANDARD DEVIATION	7.3	9.0	6.3					7.8

ZONE 7



ENVIRONMENTAL SUMMARY REPORT

SITE: ARGONNE NATIONAL LABORATORY
ARGONNE, ILLINOIS

REPORT PERIOD: 80/ 5
SITE NUMBER: 217

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 88.00 DEG WEST PYRANOMETER TILT: 45 DEG
TIME ZONE: CENTRAL
ALTITUDE: 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 TIME	INSOLATION	EXT INS	
				BTU/HR/FT2 HR:MN	BTU/FT2	PERCENT	
1	832.	N.A.	N.A.	227.	8:37	3085.	27.
2	1801.	N.A.	N.A.	324.	11:10	3077.	59.
3	2175.	N.A.	N.A.	301.	11:28	3072.	71.
4	2192.	N.A.	N.A.	311.	11:49	3064.	72.
5	1975.	N.A.	N.A.	301.	11:45	3056.	65.
6	1820.	N.A.	N.A.	314.	12:14	3049.	60.
7	1462.	N.A.	N.A.	311.	10: 4	3041.	48.
8	1276.	N.A.	N.A.	305.	13:29	3033.	42.
9	2176.	N.A.	N.A.	334.	11:33	3026.	72.
10	1047.	N.A.	N.A.	347.	11:20	3018.	35.
11	1990.	N.A.	N.A.	321.	11:46	3013.	66.
12	1050.	N.A.	N.A.	298.	11: 4	3006.	35.
13	1282.	N.A.	N.A.	321.	12: 9	2999.	43.
14	1851.	N.A.	N.A.	347.	11: 0	2992.	62.
15	2024.	N.A.	N.A.	327.	12: 2	2985.	68.
16	674.	N.A.	N.A.	146.	9:19	2978.	23.
17	183.	N.A.	N.A.	36.	9:53	2971.	6.
18	475.	N.A.	N.A.	156.	10:52	2964.	16.
19	1414.	N.A.	N.A.	321.	11:34	2957.	48.
20	1972.	N.A.	N.A.	298.	12: 4	2951.	67.
21	1909.	N.A.	N.A.	259.	11:11	2945.	65.
22	2105.	N.A.	N.A.	298.	11:49	2938.	72.
23	512.	N.A.	N.A.	120.	15: 4	2932.	17.
24	1279.	N.A.	N.A.	292.	10:30	2926.	44.
25	1922.	N.A.	N.A.	256.	12:17	2921.	66.
26	2072.	N.A.	N.A.	292.	11:41	2915.	71.
27	2012.	N.A.	N.A.	288.	11:25	2909.	69.
28	1476.	N.A.	N.A.	298.	11:34	2904.	51.
29	1063.	N.A.	N.A.	301.	11:39	2899.	37.
30	1265.	N.A.	N.A.	295.	12: 0	2894.	44.
31	2154.	N.A.	N.A.	305.	11:44	2889.	75.
MEAN	1530.	N.A.	N.A.			2981.	
STANDARD DEVIATION	579.	N.A.	N.A.			60.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ARGONNE NATIONAL LABORATORY
ARGONNE, ILLINOIS

REPORT PERIOD: 80/ 5
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	55.	62.	49.	70.	10: 7	40.	3:59	N.A.
2	60.	69.	51.	77.	15: 5	43.	4: 4	N.A.
3	66.	75.	57.	81.	13: 4	48.	1:46	N.A.
4	72.	81.	63.	91.	16:38	52.	3:55	N.A.
5	71.	82.	60.	94.	13:42	55.	23:47	N.A.
6	61.	69.	53.	77.	14:22	42.	23:51	N.A.
7	46.	50.	42.	56.	15:14	37.	4:39	N.A.
8	48.	51.	45.	55.	14:12	41.	3:16	N.A.
9	55.	63.	47.	71.	17:33	37.	4:32	N.A.
10	59.	64.	54.	73.	13: 6	48.	3:52	N.A.
11	58.	63.	53.	75.	15:52	49.	21: 7	N.A.
12	56.	60.	52.	67.	14:59	48.	22:23	N.A.
13	53.	59.	47.	74.	11:16	45.	21:29	N.A.
14	54.	61.	47.	69.	12:46	39.	4: 9	N.A.
15	55.	61.	50.	67.	12: 2	45.	4:29	N.A.
16	55.	61.	49.	66.	10:34	44.	3: 1	N.A.
17	54.	56.	53.	59.	9:58	49.	0:12	N.A.
18	57.	60.	55.	65.	15: 7	52.	3:34	N.A.
19	59.	64.	55.	73.	13:21	51.	23:32	N.A.
20	63.	71.	55.	81.	13:24	48.	4:25	N.A.
21	67.	77.	58.	86.	13:14	50.	0:42	N.A.
22	70.	81.	60.	91.	13:47	49.	2:24	N.A.
23	65.	70.	61.	73.	9:59	57.	4: 7	N.A.
24	67.	73.	61.	82.	12: 6	58.	4:38	N.A.
25	69.	79.	59.	87.	12:33	53.	23:52	N.A.
26	63.	71.	56.	76.	14:16	52.	4:35	N.A.
27	72.	84.	61.	94.	15: 9	48.	2:53	N.A.
28	72.	81.	64.	95.	13:58	61.	3:44	N.A.
29	70.	75.	66.	88.	11:39	62.	0: 0	N.A.
30	72.	76.	68.	85.	13:31	64.	2:45	N.A.
31	70.	75.	65.	83.	15:33	60.	23:44	N.A.
MEAN	62.	68.	55.					N.A.
STANDARD DEVIATION	7.7	9.4	6.6					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: DU-CAT INVESTMENT
KANSAS CITY, KANSAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 171

LATITUDE: 39.17 DEG NORTH AZIMUTH: 3 DEG
LONGITUDE: 94.43 DEG WEST PYRANOMETER TILT: 53 DEG
TIME ZONE: CENTRAL
ALTITUDE: 1014 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	1359.	N.A.	N.A.	297.	13:31	2766.	49.
2	1915.	N.A.	N.A.	289.	12:34	2753.	70.
3	1766.	N.A.	N.A.	300.	12:32	2741.	64.
4	1569.	N.A.	N.A.	289.	11:44	2731.	57.
5	1949.	N.A.	N.A.	281.	12:21	2718.	72.
6	1675.	N.A.	N.A.	273.	12: 4	2706.	62.
7	1728.	N.A.	N.A.	294.	12:24	2694.	64.
8	2160.	N.A.	N.A.	305.	12: 6	2684.	80.
9	2008.	N.A.	N.A.	302.	12: 5	2672.	75.
10	1568.	N.A.	N.A.	302.	12:41	2663.	59.
11	603.	N.A.	N.A.	162.	13:40	2652.	23.
12	778.	N.A.	N.A.	221.	11:59	2640.	29.
13	1358.	N.A.	N.A.	327.	13:14	2629.	52.
14	2004.	N.A.	N.A.	289.	12:26	2620.	76.
15	1785.	N.A.	N.A.	292.	13: 0	2610.	68.
16	182.	N.A.	N.A.	32.	10:54	2599.	7.
17	1516.	N.A.	N.A.	308.	13:30	2589.	59.
18	514.	N.A.	N.A.	127.	12:58	2578.	20.
19	1301.	N.A.	N.A.	308.	12:11	2571.	51.
20	1144.	N.A.	N.A.	211.	13:57	2561.	45.
21	1511.	N.A.	N.A.	270.	11:47	2552.	59.
22	1600.	N.A.	N.A.	257.	12: 0	2545.	63.
23	901.	N.A.	N.A.	251.	11:25	2536.	36.
24	1686.	N.A.	N.A.	259.	12:20	2527.	67.
25	1730.	N.A.	N.A.	289.	11:53	2519.	69.
26	614.	N.A.	N.A.	313.	11:47	2510.	24.
27	881.	N.A.	N.A.	208.	14:27	2505.	35.
28	1285.	N.A.	N.A.	240.	12:15	2497.	51.
29	1816.	N.A.	N.A.	297.	12:32	2490.	73.
30	2017.	N.A.	N.A.	281.	11:49	2483.	81.
31	843.	N.A.	N.A.	248.	10:34	2476.	34.
MEAN	1412.	N.A.	N.A.			2607.	
STANDARD DEVIATION	517.	N.A.	N.A.			89.	

ENVIRONMENTAL SUMMARY REPORT

SITE: JOHN C. BYRAM
SHAWNEE, KANSAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 66

LATITUDE: 39.00 DEG NORTH
LONGITUDE: 95.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 54 DEG

TIME ZONE: CENTRAL
ALTITUDE: 742 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	1192.	N.A.	N.A.	260.	13:26	2724.	44.
2	1765.	N.A.	N.A.	277.	11:50	2710.	65.
3	1678.	N.A.	N.A.	267.	12:25	2697.	62.
4	1476.	N.A.	N.A.	277.	12: 8	2686.	55.
5	1716.	N.A.	N.A.	267.	12:29	2673.	64.
6	1488.	N.A.	N.A.	263.	10:26	2661.	56.
7	1680.	N.A.	N.A.	291.	11:23	2648.	63.
8	2167.	N.A.	N.A.	281.	11:47	2638.	82.
9	2196.	N.A.	N.A.	270.	11: 7	2626.	84.
10	1534.	N.A.	N.A.	267.	11:34	2616.	59.
11	563.	N.A.	N.A.	133.	13:52	2604.	22.
12	675.	N.A.	N.A.	323.	11:53	2592.	26.
13	1248.	N.A.	N.A.	288.	11:53	2581.	48.
14	1867.	N.A.	N.A.	267.	11:51	2572.	73.
15	1597.	N.A.	N.A.	253.	12:57	2560.	62.
16	228.	N.A.	N.A.	42.	15:58	2549.	9.
17	1390.	N.A.	N.A.	298.	12:46	2539.	55.
18	529.	N.A.	N.A.	130.	12:37	2531.	21.
19	1415.	N.A.	N.A.	284.	12:37	2520.	56.
20	1134.	N.A.	N.A.	214.	13: 5	2513.	45.
21	1477.	N.A.	N.A.	246.	12:25	2503.	59.
22	1433.	N.A.	N.A.	225.	11:35	2493.	57.
23	942.	N.A.	N.A.	249.	11:17	2484.	38.
24	1629.	N.A.	N.A.	242.	12: 1	2475.	66.
25	1612.	N.A.	N.A.	260.	11:40	2469.	65.
26	539.	N.A.	N.A.	260.	12:14	2460.	22.
27	746.	N.A.	N.A.	162.	8:35	2452.	30.
28	1156.	N.A.	N.A.	214.	10:49	2444.	47.
29	1671.	N.A.	N.A.	274.	12:27	2436.	69.
30	1773.	N.A.	N.A.	256.	11:33	2429.	73.
31	946.	N.A.	N.A.	270.	10:55	2424.	39.
MEAN	1338.	N.A.	N.A.			2558.	
STANDARD DEVIATION	491.	N.A.	N.A.			92.	

ENVIRONMENTAL SUMMARY REPORT

SITE: JOHN C. BYRAM
SHAWNEE, KANSAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 66

LATITUDE: 39.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 95.00 DEG WEST PYRANOMETER TILT: 54 DEG ALTITUDE: 742 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.	68.	52.	75.	12:44	46.	2:46	62.
2	64.	75.	54.	85.	15:12	43.	5:20	60.
3	65.	76.	55.	85.	13:24	46.	4:31	64.
4	66.	78.	55.	91.	11:36	45.	5:24	75.
5	70.	81.	59.	90.	15:25	48.	4:45	69.
6	67.	76.	58.	90.	15:20	49.	5:49	63.
7	56.	62.	52.	78.	14:45	40.	23:57	74.
8	51.	61.	37.	71.	15:10	33.	5:39	63.
9	55.	66.	47.	74.	14:24	31.	5:15	61.
10	69.	76.	64.	91.	14:51	52.	5:31	63.
11	59.	60.	59.	65.	16: 6	54.	4:32	61.
12	61.	66.	57.	79.	15:32	51.	4: 9	70.
13	57.	63.	51.	72.	15:15	42.	23:57	72.
14	59.	70.	50.	78.	14:58	37.	5:27	67.
15	65.	71.	61.	76.	10:49	53.	5:45	70.
16	57.	56.	57.	64.	0: 1	53.	3: 7	65.
17	65.	70.	60.	81.	14:43	58.	2:32	70.
18	59.	61.	57.	67.	14:45	53.	5:39	69.
19	63.	69.	59.	77.	14:23	51.	5:46	74.
20	64.	71.	58.	78.	12: 6	51.	5:32	63.
21	65.	74.	57.	79.	11: 5	49.	5: 8	72.
22	65.	75.	57.	83.	15: 3	49.	5:14	65.
23	67.	73.	61.	83.	11:12	56.	2: 5	65.
24	72.	79.	66.	85.	14:41	56.	5:21	74.
25	79.	84.	74.	92.	14:24	65.	5:42	*
26	73.	74.	72.	81.	13:23	62.	23:47	64.
27	70.	77.	65.	81.	14:22	59.	5: 7	69.
28	75.	81.	70.	87.	11:10	61.	1:55	74.
29	79.	84.	74.	93.	15: 7	67.	5:36	64.
30	73.	80.	68.	88.	15:14	63.	5:31	66.
31	68.	75.	62.	85.	11: 1	56.	5: 3	63.
MEAN	65.	72.	59.					67.
STANDARD DEVIATION	6.8	7.4	7.9					4.6

ENVIRONMENTAL SUMMARY REPORT

SITE: KAW VALLEY STATE BANK
TOPEKA, KANSAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 172

LATITUDE: 39.40 DEG NORTH AZIMUTH: 5 DEG
LONGITUDE: 95.38 DEG WEST PYRANOMETER TILT: 45 DEG
TIME ZONE: CENTRAL
ALTITUDE: 877 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE TIME BTU/HR/FT2 HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1232.	N.A.	N.A.	282. 13: 5	3029.	41.
2	1939.	N.A.	N.A.	321. 12:55	3020.	64.
3	2076.	N.A.	N.A.	305. 12:40	3011.	69.
4	1911.	N.A.	N.A.	295. 12: 2	3000.	64.
5	1930.	N.A.	N.A.	295. 11:55	2991.	65.
6	1992.	N.A.	N.A.	292. 11:56	2985.	67.
7	1971.	N.A.	N.A.	321. 12:21	2976.	66.
8	2289.	N.A.	N.A.	321. 12:18	2968.	77.
9	1790.	N.A.	N.A.	324. 13: 2	2959.	61.
10	1754.	N.A.	N.A.	318. 12:36	2951.	59.
11	775.	N.A.	N.A.	159. 13:29	2945.	26.
12	1336.	N.A.	N.A.	318. 13:10	2937.	45.
13	1886.	N.A.	N.A.	337. 12:17	2929.	64.
14	2084.	N.A.	N.A.	308. 12:16	2921.	71.
15	1392.	N.A.	N.A.	276. 13:13	2913.	48.
16	193.	N.A.	N.A.	42. 10:20	2905.	7.
17	1060.	N.A.	N.A.	295. 12:18	2897.	37.
18	570.	N.A.	N.A.	211. 12: 7	2890.	20.
19	1322.	N.A.	N.A.	360. 12: 7	2882.	46.
20	1462.	N.A.	N.A.	259. 11:59	2875.	51.
21	2014.	N.A.	N.A.	311. 11:58	2868.	70.
22	1751.	N.A.	N.A.	282. 11:54	2861.	61.
23	1490.	N.A.	N.A.	279. 12:33	2857.	52.
24	1772.	N.A.	N.A.	266. 11:43	2851.	62.
25	1991.	N.A.	N.A.	302. 11:49	2844.	70.
26	1193.	N.A.	N.A.	285. 11:46	2838.	42.
27	723.	N.A.	N.A.	198. 9:59	2832.	26.
28	1259.	N.A.	N.A.	266. 13:48	2826.	45.
29	1848.	N.A.	N.A.	324. 12: 6	2820.	66.
30	2075.	N.A.	N.A.	298. 12:10	2815.	74.
31	843.	N.A.	N.A.	217. 10:29	2812.	30.
MEAN	1546.	N.A.	N.A.		2910.	
STANDARD DEVIATION	525.	N.A.	N.A.		67.	

ENVIRONMENTAL SUMMARY REPORT

SITE: KAW VALLEY STATE BANK
TOPEKA, KANSAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 172

LATITUDE: 39.40 DEG NORTH AZIMUTH: 5 DEG TIME ZONE: CENTRAL
LONGITUDE: 95.38 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 877 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.	65.	55.	74.	13:10	49.	3:23	N.A.
2	65.	74.	57.	87.	15:46	44.	4:13	N.A.
3	69.	78.	61.	91.	14:26	51.	5:22	N.A.
4	68.	77.	59.	94.	13:47	48.	5:22	N.A.
5	70.	78.	62.	93.	13:52	51.	4:22	N.A.
6	70.	77.	63.	91.	14:52	52.	5:26	N.A.
7	58.	60.	56.	69.	15:54	46.	6:56	N.A.
8	50.	54.	46.	64.	15:46	37.	5:22	N.A.
9	57.	65.	50.	78.	15:31	33.	5:18	N.A.
10	69.	75.	64.	86.	12:14	52.	3:53	N.A.
11	57.	57.	57.	62.	14:17	52.	7: 5	N.A.
12	65.	68.	61.	83.	14:30	54.	6: 3	N.A.
13	56.	60.	53.	68.	15:56	45.	23:49	N.A.
14	62.	73.	53.	84.	14:50	38.	4:42	N.A.
15	65.	70.	61.	78.	13:40	54.	5:35	N.A.
16	55.	55.	56.	62.	0:15	51.	2:50	N.A.
17	60.	64.	57.	71.	14:42	55.	1:58	N.A.
18	57.	59.	56.	65.	12: 7	52.	3:35	N.A.
19	62.	68.	57.	77.	12: 7	49.	5:16	N.A.
20	65.	73.	58.	83.	11:22	51.	5: 3	N.A.
21	67.	75.	59.	84.	13: 2	49.	4:56	N.A.
22	67.	76.	59.	89.	13:46	50.	5: 8	N.A.
23	69.	76.	62.	92.	12:54	52.	5:10	N.A.
24	74.	80.	68.	90.	14:50	59.	5: 9	N.A.
25	81.	87.	75.	96.	16:42	66.	4:26	N.A.
26	74.	75.	73.	87.	14:58	61.	8:29	N.A.
27	72.	75.	69.	87.	17:22	64.	4:34	N.A.
28	74.	78.	70.	89.	15:19	62.	2:32	N.A.
29	79.	85.	74.	93.	13:47	66.	5:20	N.A.
30	71.	75.	68.	83.	17:30	61.	2:13	N.A.
31	68.	73.	64.	81.	10:29	59.	5: 4	N.A.
MEAN	66.	71.	61.					N.A.
STANDARD DEVIATION	7.2	8.5	6.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: LINCOLN HOUSING AUTHORITY
LINCOLN, NEBRASKA

REPORT PERIOD: 80/ 5
SITE NUMBER: 178

LATITUDE: 40.51 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 96.45 DEG WEST PYRANOMETER TILT: 56 DEG TIME ZONE: CENTRAL
ALTITUDE: 1180 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	1396.	N.A.	N.A.	264.	11:57	2705.	52.
2	1648.	N.A.	N.A.	257.	12:11	2691.	61.
3	1546.	N.A.	N.A.	277.	12:19	2680.	58.
4	1621.	N.A.	N.A.	270.	12:24	2667.	61.
5	1678.	N.A.	N.A.	251.	11:54	2654.	63.
6	1605.	N.A.	N.A.	254.	12:22	2647.	61.
7	1872.	N.A.	N.A.	261.	12:17	2630.	71.
8	1834.	N.A.	N.A.	261.	12: 9	2620.	70.
9	853.	N.A.	N.A.	199.	11:14	2608.	33.
10	1687.	N.A.	N.A.	244.	12:14	2595.	65.
11	939.	N.A.	N.A.	186.	14:59	2583.	36.
12	417.	N.A.	N.A.	107.	14:43	2574.	16.
13	1339.	N.A.	N.A.	274.	11:44	2562.	52.
14	1183.	N.A.	N.A.	251.	12:28	2550.	46.
15	1291.	N.A.	N.A.	221.	11: 6	2541.	51.
16	100.	N.A.	N.A.	39.	10:24	2530.	4.
17	269.	N.A.	N.A.	117.	11:53	2522.	11.
18	234.	N.A.	N.A.	72.	15:34	2511.	9.
19	1310.	N.A.	N.A.	283.	12:11	2501.	52.
20	1423.	N.A.	N.A.	257.	12:39	2490.	57.
21	1552.	N.A.	N.A.	264.	12: 1	2481.	63.
22	1526.	N.A.	N.A.	254.	12:39	2473.	62.
23	1490.	N.A.	N.A.	234.	12:30	2464.	60.
24	1583.	N.A.	N.A.	221.	11:18	2455.	65.
25	1427.	N.A.	N.A.	254.	13:15	2446.	58.
26	1388.	N.A.	N.A.	238.	11:57	2437.	57.
27	1488.	N.A.	N.A.	254.	11:51	2431.	61.
28	1072.	N.A.	N.A.	241.	13:13	2423.	44.
29	1485.	N.A.	N.A.	254.	12:24	2415.	61.
30	1414.	N.A.	N.A.	261.	13:15	2410.	59.
31	617.	N.A.	N.A.	166.	14:53	2403.	26.
MEAN	1267.	N.A.	N.A.			2539.	
STANDARD DEVIATION	479.	N.A.	N.A.			93.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LINCOLN HOUSING AUTHORITY
LINCOLN, NEBRASKA

REPORT PERIOD: 80/ 5
SITE NUMBER: 178

LATITUDE: 40.51 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 96.45 DEG WEST PYRANOMETER TILT: 56 DEG ALTITUDE: 1180 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.	67.	56.	75.	14:42	46.	5:28	65.
2	67.	75.	61.	86.	14:56	53.	5:31	65.
3	72.	78.	66.	86.	15:47	59.	3:26	74.
4	69.	78.	60.	89.	12: 8	53.	5:50	76.
5	69.	77.	61.	92.	15: 1	53.	4:58	67.
6	67.	74.	60.	83.	14:46	51.	4: 1	66.
7	51.	54.	49.	60.	16:33	41.	23:58	65.
8	48.	52.	44.	64.	15:42	32.	5:18	64.
9	57.	61.	53.	69.	16:23	43.	5: 0	65.
10	66.	74.	58.	85.	14: 6	51.	23:58	74.
11	53.	55.	51.	64.	15:26	45.	5:23	74.
12	55.	59.	52.	67.	14:33	46.	1:13	65.
13	56.	59.	53.	67.	17:36	46.	5:36	64.
14	60.	66.	54.	73.	12:44	45.	5: 0	65.
15	65.	71.	60.	78.	13:46	51.	5: 9	65.
16	52.	51.	54.	62.	0: 0	49.	11: 7	66.
17	53.	54.	52.	56.	14:49	51.	0:14	70.
18	53.	54.	52.	57.	15:34	50.	5:50	72.
19	62.	68.	57.	79.	16:11	52.	5:20	66.
20	64.	72.	57.	81.	11:56	51.	5:16	65.
21	67.	75.	61.	85.	13:26	49.	4:59	65.
22	71.	78.	65.	85.	15:19	53.	5:11	65.
23	70.	78.	64.	85.	15:10	53.	4:51	66.
24	72.	77.	67.	85.	15:29	57.	5:15	75.
25	78.	83.	74.	93.	15:18	64.	4:54	76.
26	78.	82.	74.	90.	14: 5	69.	5:17	76.
27	75.	81.	70.	91.	14:37	63.	4: 7	67.
28	75.	79.	72.	88.	15:37	62.	5: 2	66.
29	79.	85.	73.	92.	14: 5	59.	22:24	67.
30	68.	71.	64.	78.	15:39	58.	2:51	67.
31	63.	66.	60.	72.	9:12	57.	4:29	75.
MEAN	64.	69.	60.					68.
STANDARD DEVIATION	8.8	10.5	7.7					4.3

ENVIRONMENTAL SUMMARY REPORT

SITE: SCATTERGOOD SCHOOL
WEST BRANCH, IOWA

REPORT PERIOD: 80/ 5
SITE NUMBER: 9

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 91.30 DEG WEST PYRANOMETER TILT: 50 DEG TIME ZONE: CENTRAL
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	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1306.	N.A.	N.A.	282.	10:30	2945.	44.
2	1999.	N.A.	N.A.	302.	12:13	2934.	68.
3	1866.	N.A.	N.A.	295.	12:49	2924.	64.
4	1899.	N.A.	N.A.	308.	12:51	2914.	65.
5	1609.	N.A.	N.A.	295.	12:46	2906.	55.
6	1617.	N.A.	N.A.	282.	11:36	2896.	56.
7	1666.	N.A.	N.A.	341.	13:25	2886.	58.
8	2062.	N.A.	N.A.	324.	11:37	2879.	72.
9	2184.	N.A.	N.A.	311.	12:33	2870.	76.
10	1319.	N.A.	N.A.	357.	13: 6	2860.	46.
11	1545.	N.A.	N.A.	276.	11: 3	2850.	54.
12	1059.	N.A.	N.A.	341.	12:28	2841.	37.
13	615.	N.A.	N.A.	240.	12: 8	2832.	22.
14	1826.	N.A.	N.A.	295.	12:43	2823.	65.
15	1959.	N.A.	N.A.	302.	11:50	2814.	70.
16	318.	N.A.	N.A.	55.	8:38	2808.	11.
17	498.	N.A.	N.A.	208.	15:20	2799.	18.
18	303.	N.A.	N.A.	81.	13:36	2791.	11.
19	793.	N.A.	N.A.	237.	13: 9	2782.	28.
20	1244.	N.A.	N.A.	230.	14:11	2774.	45.
21	1834.	N.A.	N.A.	272.	12:28	2766.	66.
22	1959.	N.A.	N.A.	292.	12:36	2758.	71.
23	501.	N.A.	N.A.	139.	13:58	2751.	18.
24	1699.	N.A.	N.A.	282.	12:14	2746.	62.
25	1864.	N.A.	N.A.	272.	11:48	2739.	68.
26	1700.	N.A.	N.A.	279.	12:33	2732.	62.
27	1862.	N.A.	N.A.	269.	12:55	2725.	68.
28	1443.	N.A.	N.A.	298.	11:43	2719.	53.
29	947.	N.A.	N.A.	308.	13:13	2715.	35.
30	1761.	N.A.	N.A.	298.	12:19	2709.	65.
31	1477.	N.A.	N.A.	282.	11:19	2703.	55.
MEAN	1443.	N.A.	N.A.			2813.	
STANDARD DEVIATION	550.	N.A.	N.A.			74.	

ENVIRONMENTAL SUMMARY REPORT

SITE: SCATTERGOOD SCHOOL
WEST BRANCH, IOWA

REPORT PERIOD: 80/ 5
SITE NUMBER: 9

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.30 DEG WEST PYRANOMETER TILT: 50 DEG 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.	70.	56.	79.	16:45	45.	4: 6	67.
2	65.	71.	59.	78.	14:16	48.	4:50	70.
3	69.	77.	62.	86.	15:13	48.	4:28	74.
4	73.	81.	65.	88.	15:42	53.	4:12	76.
5	71.	80.	63.	89.	13: 2	56.	4:24	81.
6	60.	68.	53.	77.	13:49	44.	23:55	83.
7	48.	54.	42.	58.	13:31	36.	5:15	78.
8	49.	55.	43.	61.	15:32	36.	5:13	73.
9	56.	63.	50.	70.	14:47	39.	4:12	70.
10	61.	66.	56.	75.	13: 6	49.	2:10	71.
11	54.	58.	50.	68.	14:47	42.	4:39	71.
12	59.	64.	54.	71.	14: 9	50.	0: 1	71.
13	52.	53.	51.	58.	0: 2	42.	22:40	67.
14	55.	63.	47.	72.	14:14	40.	2:56	71.
15	58.	63.	54.	70.	15:18	50.	6: 4	71.
16	53.	55.	51.	58.	11:24	49.	4: 1	67.
17	56.	57.	54.	67.	15:20	51.	0:14	69.
18	56.	58.	55.	61.	12:48	54.	1:39	70.
19	59.	63.	56.	73.	13:30	53.	23:53	72.
20	63.	69.	58.	77.	16:23	51.	3:15	69.
21	69.	77.	62.	87.	14:51	52.	4:18	75.
22	71.	78.	65.	83.	16: 1	55.	4:31	74.
23	66.	69.	64.	74.	14: 3	61.	5: 5	76.
24	70.	75.	65.	85.	14:28	56.	4:14	73.
25	74.	79.	69.	86.	15: 8	59.	5:18	74.
26	71.	77.	66.	84.	14:41	58.	4:28	78.
27	74.	80.	68.	89.	14:25	56.	4:28	74.
28	75.	82.	68.	92.	13:19	63.	22:15	74.
29	70.	72.	69.	80.	16: 0	64.	0: 2	73.
30	71.	75.	67.	79.	10:33	62.	4:25	70.
31	70.	76.	64.	83.	14:41	57.	4:17	74.
MEAN	63.	69.	58.					73.
STANDARD DEVIATION	8.1	9.2	7.7					3.8

ENVIRONMENTAL SUMMARY REPORT

SITE: SCATTERGOOD SCHOOL
WEST BRANCH, IOWA

REPORT PERIOD: 80/ 5
SITE NUMBER: 9

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.30 DEG WEST PYRANOMETER TILT: 50 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	*	1.	*	1.	3.	*	17: 1
2	*	2.	*	2.	5.	*	16:12
3	*	1.	*	2.	4.	*	12:33
4	*	2.	*	1.	5.	*	14:48
5	301.	2.	303.	3.	16.	302.	16:40
6	314.	3.	310.	4.	7.	325.	14: 0
7	*	2.	*	3.	7.	*	15: 0
8	*	2.	*	2.	6.	*	11:11
9	194.	2.	201.	3.	37.	215.	21:38
10	177.	4.	182.	6.	36.	201.	15:41
11	*	1.	*	1.	6.	*	1: 6
12	*	2.	*	3.	6.	*	10: 4
13	320.	2.	314.	4.	8.	331.	12:50
14	*	1.	*	2.	35.	*	17:10
15	*	2.	*	2.	6.	*	22:30
16	76.	4.	75.	4.	8.	69.	5:58
17	73.	2.	71.	2.	7.	71.	10:11
18	*	1.	*	1.	3.	*	14:50
19	*	0.	*	1.	3.	*	8:10
20	*	1.	*	2.	4.	*	12:14
21	*	1.	*	1.	3.	*	23:22
22	*	1.	*	2.	5.	*	12: 4
23	*	1.	*	2.	7.	*	14:46
24	*	1.	*	1.	4.	*	14: 1
25	*	1.	*	2.	4.	*	15:29
26	98.	3.	109.	3.	5.	115.	17: 5
27	149.	3.	152.	4.	7.	145.	13:43
28	*	2.	*	2.	36.	*	18:52
29	141.	3.	142.	3.	8.	142.	10:42
30	219.	4.	222.	6.	11.	237.	14:43
31	*	1.	*	1.	5.	*	0:55
MEAN	188.	2.	189.	2.			
STANDARD DEVIATION	92.0	1.0	90.2	1.3			

ENVIRONMENTAL SUMMARY REPORT

SITE: SCATTERGOOD SCHOOL
WEST BRANCH, IOWA

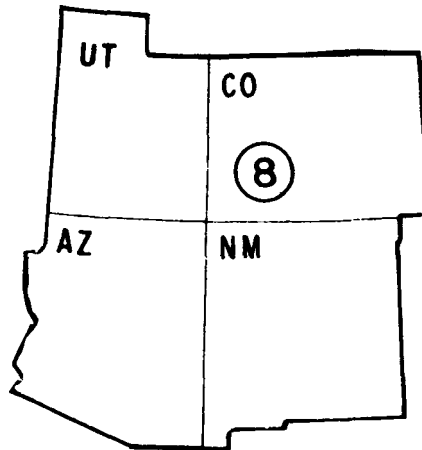
REPORT PERIOD: 80/ 5
SITE NUMBER: 9

LATITUDE: 41.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.30 DEG WEST PYRANOMETER TILT: 50 DEG 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	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	24	0	0	0	0	0	0	0	0
5	22	2	0	0	0	0	0	0	0
6	21	3	0	0	0	0	0	0	0
7	23	1	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	13	10	1	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	23	0	0	0	0	0	0	0	1
13	18	6	0	0	0	0	0	0	0
14	23	1	0	0	0	0	0	0	0
15	23	1	0	0	0	0	0	0	0
16	13	11	0	0	0	0	0	0	0
17	22	2	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	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	24	0	0	0	0	0	0	0	0
27	19	5	0	0	0	0	0	0	0
28	23	1	0	0	0	0	0	0	0
29	17	7	0	0	0	0	0	0	0
30	13	10	1	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	21.9	2.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
TOTAL	679	61	2	0	0	0	0	0	2

ZONE 8



ENVIRONMENTAL SUMMARY REPORT

SITE: ALBUQUERQUE WESTERN
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
SITE NUMBER: 55

LATITUDE: 35.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 106.00 DEG WEST PYRANOMETER TILT: 35 DEG ALTITUDE: 5389 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	1526.	N.A.	N.A.	283.	12:16	3168.	48.
2	1831.	N.A.	N.A.	312.	12:25	3162.	58.
3	1508.	N.A.	N.A.	304.	12:34	3156.	48.
4	1980.	N.A.	N.A.	280.	11:40	3150.	63.
5	1704.	N.A.	N.A.	304.	12:34	3143.	54.
6	1881.	N.A.	N.A.	280.	12:52	3137.	60.
7	1646.	N.A.	N.A.	283.	12:13	3131.	53.
8	1575.	N.A.	N.A.	283.	11:33	3125.	50.
9	1708.	N.A.	N.A.	299.	11:34	3119.	55.
10	2061.	N.A.	N.A.	283.	11:47	3113.	66.
11	1344.	N.A.	N.A.	299.	13: 5	3107.	43.
12	2133.	N.A.	N.A.	288.	12:12	3101.	69.
13	1645.	N.A.	N.A.	293.	12:19	3095.	53.
14	1192.	N.A.	N.A.	293.	12:29	3089.	39.
15	422.	N.A.	N.A.	133.	15:14	3084.	14.
16	1557.	N.A.	N.A.	302.	11:32	3078.	51.
17	1523.	N.A.	N.A.	348.	12: 3	3072.	50.
18	1558.	N.A.	N.A.	285.	11: 6	3067.	51.
19	*	N.A.	N.A.	*	*:*	3061.	*
20	2049.	N.A.	N.A.	269.	11:25	3056.	67.
21	*	N.A.	N.A.	*	*:*	3051.	*
22	*	N.A.	N.A.	*	*:*	3045.	*
23	*	N.A.	N.A.	*	*:*	3040.	*
24	2092.	N.A.	N.A.	277.	11:52	3036.	69.
25	1972.	N.A.	N.A.	291.	12:45	3031.	65.
26	2010.	N.A.	N.A.	288.	11:55	3026.	66.
27	*	N.A.	N.A.	*	*:*	3021.	*
28	*	N.A.	N.A.	*	*:*	3017.	*
29	*	N.A.	N.A.	*	*:*	3013.	*
30	*	N.A.	N.A.	*	*:*	3009.	*
31	*	N.A.	N.A.	*	*:*	3005.	*
MEAN	1678.	N.A.	N.A.			3081.	
STANDARD DEVIATION	382.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ALBUQUERQUE WESTERN
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
SITE NUMBER: 55

LATITUDE: 35.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 106.00 DEG WEST PYRANOMETER TILT: 35 DEG ALTITUDE: 5389 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	55.	60.	49.	68.	15:47	44.	4:48	70.
2	57.	63.	52.	75.	14:58	40.	5:45	70.
3	57.	62.	52.	73.	13: 6	49.	5:59	71.
4	61.	67.	54.	79.	16: 2	43.	5:43	71.
5	64.	71.	57.	81.	12:50	51.	5:43	71.
6	64.	70.	58.	77.	13:56	48.	5:29	72.
7	63.	70.	56.	80.	15: 7	50.	17:25	72.
8	60.	64.	57.	72.	17:21	48.	5:36	72.
9	64.	69.	59.	79.	13:31	47.	4:59	72.
10	67.	73.	61.	84.	15:37	53.	3: 5	72.
11	62.	68.	57.	75.	13:31	50.	5:45	72.
12	56.	60.	51.	69.	15:31	40.	5:37	72.
13	60.	65.	54.	74.	12: 8	41.	4:35	72.
14	58.	60.	56.	68.	12:39	49.	16:12	72.
15	49.	49.	50.	54.	15:25	44.	10: 4	71.
16	56.	61.	51.	70.	16:35	42.	4:42	72.
17	63.	69.	58.	75.	16:35	52.	5:23	72.
18	59.	64.	54.	76.	14:40	45.	5:33	71.
19	61.	67.	57.	79.	13:36	47.	4: 0	72.
20	69.	75.	64.	84.	16:49	50.	5:23	72.
21	72.	76.	66.	87.	13:31	63.	4:54	73.
22	72.	79.	69.	82.	17:10	64.	23:50	73.
23	67.	73.	63.	83.	15: 7	51.	5:26	72.
24	67.	75.	59.	81.	14:58	51.	23:52	72.
25	62.	68.	57.	82.	14:51	40.	5:28	72.
26	67.	73.	61.	84.	15: 1	46.	5:25	73.
27	*	*	*	*	*:*	*	*:*	*
28	*	*	*	*	*:*	*	*:*	*
29	*	*	*	*	*:*	*	*:*	*
30	*	*	*	*	*:*	*	*:*	*
31	*	*	*	*	*:*	*	*:*	*
MEAN	62.	67.	57.					72.
STANDARD DEVIATION	5.4	6.6	4.9					0.7

ENVIRONMENTAL SUMMARY REPORT

SITE: BOULDER POST OFFICE
BOULDER, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 181

LATITUDE: 39.45 DEG NORTH
LONGITUDE: 104.52 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5283 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.	*	*:*	3025.	*
2	*	N.A.	N.A.	*	*:*	3016.	*
3	1910.	N.A.	N.A.	355.	11: 2	3007.	64.
4	1904.	N.A.	N.A.	352.	11:45	2998.	64.
5	1394.	N.A.	N.A.	368.	11:16	2990.	47.
6	1463.	N.A.	N.A.	358.	11:34	2981.	49.
7	645.	N.A.	N.A.	249.	9: 2	2975.	22.
8	635.	N.A.	N.A.	224.	9:57	2966.	21.
9	1918.	N.A.	N.A.	364.	11:27	2958.	65.
10	1647.	N.A.	N.A.	358.	10:12	2949.	56.
11	343.	N.A.	N.A.	80.	13:14	2941.	12.
12	1642.	N.A.	N.A.	352.	11:26	2935.	56.
13	1819.	N.A.	N.A.	355.	11: 5	2927.	62.
14	1603.	N.A.	N.A.	323.	9:52	2919.	55.
15	685.	N.A.	N.A.	246.	10: 6	2911.	24.
16	802.	N.A.	N.A.	288.	12:17	2903.	28.
17	413.	N.A.	N.A.	80.	12:23	2895.	14.
18	1929.	N.A.	N.A.	355.	10:57	2888.	67.
19	1907.	N.A.	N.A.	326.	11: 7	2881.	66.
20	1874.	N.A.	N.A.	332.	10:46	2873.	65.
21	2324.	N.A.	N.A.	304.	11: 2	2866.	81.
22	2129.	N.A.	N.A.	304.	11:24	2859.	74.
23	2202.	N.A.	N.A.	310.	11:19	2853.	77.
24	2145.	N.A.	N.A.	320.	11:27	2849.	75.
25	2510.	N.A.	N.A.	320.	11: 1	2842.	88.
26	2138.	N.A.	N.A.	336.	10:44	2836.	75.
27	2107.	N.A.	N.A.	332.	11:26	2830.	74.
28	2246.	N.A.	N.A.	313.	11:12	2824.	80.
29	1505.	N.A.	N.A.	326.	12:50	2818.	53.
30	2249.	N.A.	N.A.	310.	11:21	2813.	80.
31	2316.	N.A.	N.A.	320.	11:21	2808.	82.
MEAN	1669.	N.A.	N.A.			2908.	
STANDARD DEVIATION	628.	N.A.	N.A.			67.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BOULDER POST OFFICE
BOULDER, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 181

LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 5283 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	*	*	*	*	*:*	*	*:*	N.A.
2	*	*	*	*	*:*	*	*:*	N.A.
3	60.	65.	48.	79.	15:29	43.	23:50	N.A.
4	56.	64.	49.	75.	13:42	41.	2: 9	N.A.
5	58.	64.	53.	76.	13:29	48.	2:19	N.A.
6	58.	65.	51.	80.	13:26	49.	22:44	N.A.
7	51.	53.	49.	61.	9:13	47.	21:57	N.A.
8	50.	52.	47.	60.	17:36	43.	23:27	N.A.
9	56.	65.	48.	78.	14:28	40.	3:53	N.A.
10	60.	69.	52.	78.	12:20	45.	3:11	N.A.
11	43.	42.	43.	47.	0: 4	41.	11:59	N.A.
12	47.	53.	42.	65.	12:57	36.	5:57	N.A.
13	51.	60.	43.	70.	15:59	39.	4:57	N.A.
14	51.	58.	44.	72.	12:59	39.	5:26	N.A.
15	47.	50.	45.	60.	10:27	40.	23:59	N.A.
16	46.	50.	42.	64.	12:27	39.	0:25	N.A.
17	41.	40.	41.	45.	16:17	38.	8:49	N.A.
18	53.	60.	45.	69.	12:59	37.	4:28	N.A.
19	60.	68.	52.	84.	13:42	42.	4:38	N.A.
20	66.	75.	57.	83.	12:22	49.	3:55	N.A.
21	70.	80.	61.	90.	14:51	54.	3:50	N.A.
22	69.	78.	61.	90.	14:46	54.	4:44	N.A.
23	68.	76.	60.	90.	14:26	50.	3:56	N.A.
24	67.	75.	61.	85.	14:18	50.	23:59	N.A.
25	60.	69.	52.	81.	15: 1	42.	3: 1	N.A.
26	60.	70.	51.	81.	13:18	39.	5:24	N.A.
27	65.	75.	55.	86.	13:45	48.	4:52	N.A.
28	70.	81.	60.	91.	14:56	47.	3:55	N.A.
29	62.	68.	56.	80.	9:32	49.	23:32	N.A.
30	63.	72.	55.	84.	13:29	44.	4:41	N.A.
31	68.	78.	58.	86.	13: 8	46.	4:52	N.A.
MEAN	58.	65.	51.					N.A.
STANDARD DEVIATION	8.5	11.1	6.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: COLORADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 138

LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 5283 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.	*	*:*	1141.	*
2	784.	N.A.	N.A.	163.	11:31	1120.	70.
3	583.	N.A.	N.A.	132.	9:46	1102.	53.
4	679.	N.A.	N.A.	145.	14: 0	1082.	63.
5	678.	N.A.	N.A.	123.	11:26	1065.	64.
6	692.	N.A.	N.A.	154.	13:57	1046.	66.
7	448.	N.A.	N.A.	145.	10:13	1029.	44.
8	236.	N.A.	N.A.	89.	11:45	1011.	23.
9	640.	N.A.	N.A.	148.	10:20	994.	64.
10	639.	N.A.	N.A.	154.	10:39	977.	65.
11	65.	N.A.	N.A.	28.	12:52	961.	7.
12	722.	N.A.	N.A.	166.	10:57	945.	76.
13	745.	N.A.	N.A.	166.	10:47	930.	80.
14	783.	N.A.	N.A.	154.	11:11	914.	86.
15	210.	N.A.	N.A.	135.	10: 5	899.	23.
16	474.	N.A.	N.A.	154.	13:32	885.	54.
17	154.	N.A.	N.A.	46.	15:59	871.	18.
18	766.	N.A.	N.A.	157.	10:55	857.	89.
19	773.	N.A.	N.A.	148.	12:53	843.	92.
20	774.	N.A.	N.A.	154.	12:22	832.	93.
21	763.	N.A.	N.A.	135.	11:47	819.	93.
22	717.	N.A.	N.A.	129.	11:33	807.	89.
23	726.	N.A.	N.A.	129.	12: 7	795.	91.
24	733.	N.A.	N.A.	126.	11:37	783.	94.
25	704.	N.A.	N.A.	129.	11:48	774.	91.
26	705.	N.A.	N.A.	148.	11:18	763.	92.
27	699.	N.A.	N.A.	145.	11:24	753.	93.
28	678.	N.A.	N.A.	126.	11:41	744.	91.
29	400.	N.A.	N.A.	101.	9:48	735.	54.
30	589.	N.A.	N.A.	114.	10:28	726.	81.
31	579.	N.A.	N.A.	114.	10:24	718.	81.
MEAN	605.	N.A.	N.A.			901.	
STANDARD DEVIATION	201.	N.A.	N.A.			129.	

ENVIRONMENTAL SUMMARY REPORT

SITE: COLORADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 138

LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 89 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 5283 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	46.	46.	46.	50.	17: 9	43.	23:44	51.
2	52.	60.	47.	65.	15:32	40.	1:41	51.
3	52.	61.	47.	71.	12: 0	41.	5:10	51.
4	55.	63.	49.	71.	14: 0	40.	4:21	51.
5	56.	64.	51.	73.	15:58	46.	23:59	52.
6	56.	66.	50.	74.	15:17	44.	5:14	52.
7	51.	56.	48.	59.	10:19	42.	2:45	53.
8	50.	52.	48.	58.	12: 1	43.	23:40	53.
9	52.	61.	47.	71.	15: 8	40.	2: 4	53.
10	58.	67.	52.	73.	15: 6	45.	3:11	52.
11	42.	42.	43.	46.	0: 4	40.	15:59	52.
12	44.	50.	40.	58.	13:42	35.	5:53	53.
13	47.	56.	41.	64.	14:41	32.	4:39	53.
14	50.	61.	44.	70.	13:41	37.	3:49	53.
15	47.	50.	46.	58.	11:41	41.	23:50	53.
16	46.	51.	43.	60.	13:58	40.	4:17	53.
17	41.	40.	41.	46.	16:47	38.	7:59	52.
18	50.	57.	46.	67.	16:11	39.	3:43	52.
19	55.	66.	50.	75.	14: 8	40.	2:45	53.
20	61.	73.	55.	81.	16:33	42.	4:49	53.
21	64.	76.	57.	82.	14: 0	45.	3:58	53.
22	64.	78.	57.	88.	15:17	47.	4:59	54.
23	65.	75.	59.	87.	16:44	49.	5:11	53.
24	64.	72.	60.	78.	13:45	49.	23:58	53.
25	57.	67.	51.	77.	15:32	37.	4:25	53.
26	55.	65.	50.	73.	16:22	35.	4:12	53.
27	62.	76.	54.	87.	15:40	41.	3:34	54.
28	64.	77.	57.	84.	13:49	42.	4:19	54.
29	57.	67.	52.	77.	9:59	42.	23:59	55.
30	59.	70.	53.	78.	14:28	38.	4:31	54.
31	62.	75.	56.	80.	11:49	41.	4:43	54.
MEAN	54.	63.	50.					53.
STANDARD DEVIATION	7.0	10.5	5.4					1.0

ENVIRONMENTAL SUMMARY REPORT

SITE: COLORADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 138

LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 5283 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	119.	3.	106.	8.	11.	125.	16:58
2	347.	4.	1.	5.	14.	341.	18: 2
3	176.	5.	175.	6.	20.	329.	16:37
4	199.	4.	295.	3.	15.	193.	21: 2
5	205.	2.	204.	4.	16.	198.	12:46
6	217.	5.	214.	5.	29.	212.	15:54
7	272.	5.	297.	7.	15.	102.	16:11
8	232.	4.	228.	6.	15.	186.	14: 3
9	*	4.	*	6.	24.	*	13:37
10	276.	6.	335.	4.	20.	141.	1:14
11	246.	8.	253.	9.	14.	192.	15:27
12	262.	9.	330.	6.	25.	221.	17:27
13	286.	4.	12.	5.	17.	265.	17:19
14	*	3.	*	4.	15.	*	17: 6
15	321.	5.	293.	5.	19.	340.	17:58
16	295.	4.	267.	4.	13.	325.	19: 6
17	253.	4.	207.	6.	10.	205.	15:59
18	321.	3.	311.	4.	10.	315.	10:55
19	229.	4.	345.	3.	34.	193.	21:10
20	288.	2.	266.	4.	11.	242.	11:18
21	353.	3.	13.	4.	10.	8.	16:14
22	0.	2.	22.	2.	15.	73.	17:41
23	226.	6.	239.	4.	17.	222.	20:41
24	9.	11.	356.	11.	28.	54.	23: 5
25	44.	8.	350.	8.	30.	99.	0:41
26	260.	7.	334.	9.	17.	315.	13:32
27	350.	6.	334.	4.	32.	325.	17:48
28	287.	5.	313.	7.	14.	339.	15:47
29	254.	4.	246.	8.	23.	221.	13:53
30	242.	6.	337.	7.	19.	217.	21: 4
31	123.	9.	94.	12.	26.	127.	14:56
MEAN	270.	5.	234.	6.			
STANDARD DEVIATION	101.7	2.2	112.7	2.3			

ENVIRONMENTAL SUMMARY REPORT

SITE: COLORADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 138

LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 89 DEG ALTITUDE: 5283 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	7	1	2	0	0	0	0	0	14
2	11	9	4	0	0	0	0	0	0
3	11	8	4	1	0	0	0	0	0
4	16	7	1	0	0	0	0	0	0
5	21	1	2	0	0	0	0	0	0
6	16	3	2	2	1	0	0	0	0
7	10	9	5	0	0	0	0	0	0
8	13	6	5	0	0	0	0	0	0
9	15	6	3	0	0	0	0	0	0
10	10	6	6	2	0	0	0	0	0
11	3	5	16	0	0	0	0	0	0
12	7	5	6	5	1	0	0	0	0
13	13	9	1	1	0	0	0	0	0
14	17	4	2	1	0	0	0	0	0
15	12	6	6	0	0	0	0	0	0
16	13	6	5	0	0	0	0	0	0
17	7	17	0	0	0	0	0	0	0
18	20	4	0	0	0	0	0	0	0
19	17	5	0	2	0	0	0	0	0
20	19	5	0	0	0	0	0	0	0
21	16	6	2	0	0	0	0	0	0
22	18	6	0	0	0	0	0	0	0
23	10	4	6	4	0	0	0	0	0
24	5	7	3	3	5	1	0	0	0
25	6	9	6	1	2	0	0	0	0
26	6	7	10	1	0	0	0	0	0
27	11	8	2	1	2	0	0	0	0
28	9	11	4	0	0	0	0	0	0
29	15	6	1	2	0	0	0	0	0
30	7	9	5	3	0	0	0	0	0
31	7	6	5	2	3	0	0	0	1
AVERAGE	11.9	6.5	3.7	1.0	0.5	0.0	0.0	0.0	0.5
TOTAL	368	201	114	31	14	1	0	0	15

ENVIRONMENTAL SUMMARY REPORT

SITE: COLORADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 138

LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 89 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5283 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	100.	100.	100.	100.	15:17	99.	17:47
2	78.	58.	91.	100.	0: 0	0.	12:40
3	84.	65.	97.	100.	0: 0	29.	12:42
4	80.	59.	93.	100.	0: 0	32.	14:43
5	74.	49.	91.	100.	0: 3	29.	15:52
6	77.	48.	95.	100.	0: 5	25.	12:58
7	92.	81.	99.	100.	0: 0	63.	15:49
8	100.	100.	100.	100.	0: 1	96.	12: 6
9	80.	58.	93.	100.	0: 1	14.	13: 5
10	66.	33.	87.	100.	0: 4	13.	15:11
11	100.	100.	100.	100.	0: 4	100.	0: 4
12	88.	78.	95.	100.	0: 1	44.	14:30
13	76.	42.	96.	100.	0: 1	22.	15:35
14	81.	49.	100.	100.	0: 5	24.	14:13
15	100.	99.	100.	100.	0: 2	92.	11:52
16	96.	90.	100.	100.	0: 1	65.	14:14
17	100.	100.	100.	100.	0: 5	100.	0: 5
18	80.	64.	89.	100.	0: 5	33.	16: 0
19	73.	49.	86.	100.	0: 0	22.	14: 8
20	63.	33.	80.	100.	0: 1	17.	16:33
21	62.	32.	78.	100.	0: 3	18.	14:38
22	68.	36.	85.	100.	0: 0	23.	15:17
23	64.	47.	74.	100.	0: 2	13.	16: 2
24	51.	42.	56.	100.	1:56	6.	22:49
25	19.	10.	24.	47.	5: 2	4.	15:10
26	43.	24.	53.	95.	4:12	18.	16: 6
27	57.	24.	76.	100.	4:49	8.	15:24
28	49.	22.	64.	100.	0: 3	6.	13:33
29	49.	27.	61.	100.	22:55	12.	9:48
30	55.	27.	70.	100.	0: 4	11.	14: 2
31	44.	19.	58.	100.	1: 9	2.	12:16
MEAN	73.	54.	84.				
STANDARD DEVIATION	20.	28.	19.				

ENVIRONMENTAL SUMMARY REPORT

SITE: HOMES BY MARILYNN
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
SITE NUMBER: 52

LATITUDE: 35.05 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 106.42 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 5100 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	1776.	N.A.	N.A.	301.	12:58	2536.	70.
2	1848.	N.A.	N.A.	298.	12:45	2523.	73.
3	1528.	N.A.	N.A.	313.	12:22	2507.	61.
4	1885.	N.A.	N.A.	274.	12:17	2495.	76.
5	1558.	N.A.	N.A.	346.	13:11	2480.	63.
6	1608.	N.A.	N.A.	289.	13:19	2465.	65.
7	1529.	N.A.	N.A.	286.	12:13	2453.	62.
8	1427.	N.A.	N.A.	313.	12:30	2441.	58.
9	1534.	N.A.	N.A.	280.	12:57	2427.	63.
10	1795.	N.A.	N.A.	274.	12:13	2413.	74.
11	1281.	N.A.	N.A.	304.	11:52	2402.	53.
12	1924.	N.A.	N.A.	289.	12: 8	2388.	81.
13	1657.	N.A.	N.A.	295.	12:33	2375.	70.
14	1048.	N.A.	N.A.	310.	12: 2	2365.	44.
15	481.	N.A.	N.A.	126.	15: 8	2355.	20.
16	1338.	N.A.	N.A.	325.	13: 5	2342.	57.
17	1490.	N.A.	N.A.	292.	12: 0	2330.	64.
18	1511.	N.A.	N.A.	322.	12: 9	2321.	65.
19	1721.	N.A.	N.A.	256.	12:51	2309.	75.
20	1829.	N.A.	N.A.	262.	12:18	2298.	80.
21	1764.	N.A.	N.A.	253.	12:12	2287.	77.
22	1639.	N.A.	N.A.	277.	13:52	2278.	72.
23	1803.	N.A.	N.A.	262.	12:19	2270.	79.
24	1827.	N.A.	N.A.	262.	12:36	2260.	81.
25	1790.	N.A.	N.A.	289.	12:20	2250.	80.
26	1805.	N.A.	N.A.	277.	11:47	2241.	81.
27	1374.	N.A.	N.A.	271.	12:35	2234.	62.
28	1758.	N.A.	N.A.	262.	12:18	2225.	79.
29	1826.	N.A.	N.A.	259.	12:16	2216.	82.
30	1791.	N.A.	N.A.	268.	13: 7	2208.	81.
31	1766.	N.A.	N.A.	262.	12: 7	2200.	80.
MEAN	1610.	N.A.	N.A.			2351.	
STANDARD DEVIATION	293.	N.A.	N.A.			102.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HOMES BY MARILYNN
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
SITE NUMBER: 52

LATITUDE: 35.05 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 106.42 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 5100 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	57.	69.	47.	83.	13:40	37.	5:24	70.
2	61.	74.	50.	90.	15:34	37.	5:38	72.
3	61.	72.	51.	87.	12:59	45.	5:26	74.
4	63.	77.	52.	93.	14:25	40.	5:21	76.
5	56.	69.	46.	82.	10:36	43.	4:23	72.
6	53.	64.	44.	76.	13:46	34.	5:19	73.
7	51.	63.	41.	77.	11:46	37.	5:33	74.
8	62.	73.	52.	89.	15:37	39.	3: 5	71.
9	66.	76.	57.	88.	13: 2	39.	4:57	75.
10	71.	81.	62.	93.	11:41	53.	3:41	70.
11	53.	60.	48.	67.	8:56	40.	23:57	72.
12	45.	55.	36.	64.	10:48	24.	4:56	68.
13	48.	60.	38.	69.	11: 2	25.	5:26	71.
14	47.	50.	43.	64.	10:26	34.	15:28	69.
15	39.	41.	37.	49.	1:47	32.	23:51	69.
16	45.	54.	38.	66.	16:53	27.	4:12	68.
17	52.	61.	44.	69.	14:40	37.	0: 0	72.
18	53.	61.	46.	74.	11:47	32.	4:53	71.
19	64.	81.	50.	96.	15:20	42.	22:58	69.
20	58.	71.	46.	82.	15:19	35.	4: 8	69.
21	63.	73.	56.	85.	15: 7	47.	5:21	70.
22	60.	70.	52.	81.	13:41	42.	5:20	69.
23	56.	66.	48.	77.	15:21	35.	5:17	71.
24	55.	65.	46.	72.	15:11	35.	5: 8	73.
25	51.	62.	43.	73.	14:32	26.	5:19	72.
26	54.	66.	44.	77.	15:25	30.	4:29	69.
27	57.	64.	51.	75.	19:14	33.	4: 3	73.
28	58.	68.	50.	77.	14: 5	36.	5:48	75.
29	54.	65.	44.	75.	14: 3	34.	4:59	72.
30	57.	71.	45.	81.	14:21	28.	5:17	71.
31	57.	70.	45.	82.	15:24	32.	5:16	74.
MEAN	56.	66.	47.					71.
STANDARD DEVIATION	6.8	8.7	5.8					2.1

ENVIRONMENTAL SUMMARY REPORT

SITE: HULLCO CONSTRUCTION
PRESCOTT, ARIZONA

REPORT PERIOD: 80/ 5
SITE NUMBER: 148

LATITUDE: 34.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 114.40 DEG WEST PYRANOMETER TILT: 60 DEG
TIME ZONE: MOUNTAIN
ALTITUDE: 7000 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 INSOLATION TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	989.	N.A.	N.A.	250.	13:25	2286.	43.
2	979.	N.A.	N.A.	306.	12:17	2268.	43.
3	1768.	N.A.	N.A.	286.	12:39	2253.	78.
4	1498.	N.A.	N.A.	309.	12:54	2239.	67.
5	*	N.A.	N.A.	*	*:*	2222.	*
6	*	N.A.	N.A.	*	*:*	2207.	*
7	*	N.A.	N.A.	*	*:*	2193.	*
8	*	N.A.	N.A.	*	*:*	2179.	*
9	1763.	N.A.	N.A.	242.	11:57	2163.	82.
10	1627.	N.A.	N.A.	289.	12:15	2150.	76.
11	1627.	N.A.	N.A.	301.	12:21	2135.	76.
12	1869.	N.A.	N.A.	274.	12: 7	2119.	88.
13	1814.	N.A.	N.A.	274.	12:18	2107.	86.
14	1021.	N.A.	N.A.	309.	12: 4	2095.	49.
15	679.	N.A.	N.A.	218.	11:37	2080.	33.
16	1567.	N.A.	N.A.	312.	13:19	2069.	76.
17	1779.	N.A.	N.A.	268.	12:21	2055.	87.
18	1247.	N.A.	N.A.	301.	12:34	2044.	61.
19	1679.	N.A.	N.A.	271.	12:23	2033.	83.
20	1655.	N.A.	N.A.	306.	13:15	2021.	82.
21	1747.	N.A.	N.A.	259.	12:10	2008.	87.
22	1720.	N.A.	N.A.	271.	11:53	1999.	86.
23	1724.	N.A.	N.A.	259.	12: 0	1987.	87.
24	1778.	N.A.	N.A.	283.	11:22	1976.	90.
25	1775.	N.A.	N.A.	262.	12: 5	1967.	90.
26	1738.	N.A.	N.A.	259.	12: 6	1958.	89.
27	1757.	N.A.	N.A.	256.	12:17	1948.	90.
28	1750.	N.A.	N.A.	253.	12:10	1938.	90.
29	1725.	N.A.	N.A.	256.	12:24	1931.	89.
30	1739.	N.A.	N.A.	259.	12:23	1922.	90.
31	1721.	N.A.	N.A.	250.	12: 8	1913.	90.
MEAN	1583.	N.A.	N.A.			2080.	
STANDARD DEVIATION	311.	N.A.	N.A.			114.	

ENVIRONMENTAL SUMMARY REPORT

SITE: HULLCO CONSTRUCTION
 PRESCOTT, ARIZONA

REPORT PERIOD: 80/ 5
 SITE NUMBER: 148

LATITUDE: 34.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
 LONGITUDE: 114.40 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 7000 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	45.	51.	40.	61.	16:33	35.	3:39	N.A.
2	48.	55.	42.	66.	17:11	33.	5:10	N.A.
3	54.	64.	46.	74.	13:27	34.	5:17	N.A.
4	58.	67.	43.	76.	16:11	40.	5:43	N.A.
5	*	*	*	*	*:*	*	*:*	N.A.
6	*	*	*	*	*:*	*	*:*	N.A.
7	*	*	*	*	*:*	*	*:*	N.A.
8	*	*	*	*	*:*	*	*:*	N.A.
9	60.	63.	57.	66.	15:43	53.	23:54	N.A.
10	53.	57.	50.	63.	16:42	45.	23:27	N.A.
11	44.	46.	42.	52.	16:31	32.	23:55	N.A.
12	47.	56.	40.	64.	14:58	28.	4:27	N.A.
13	52.	60.	44.	68.	14:26	31.	5:48	N.A.
14	49.	56.	43.	65.	13:19	36.	23:53	N.A.
15	44.	51.	39.	59.	13: 2	32.	5:29	N.A.
16	53.	62.	46.	69.	16:10	37.	5:30	N.A.
17	60.	69.	53.	75.	14:24	43.	0:32	N.A.
18	57.	67.	50.	76.	15:14	39.	5:46	N.A.
19	61.	72.	52.	81.	14:58	39.	5: 6	N.A.
20	64.	77.	55.	87.	16:32	43.	5: 9	N.A.
21	64.	75.	57.	80.	15:53	44.	6: 2	N.A.
22	56.	64.	49.	69.	11:11	43.	4:15	N.A.
23	56.	62.	52.	67.	15:54	45.	4:48	N.A.
24	44.	48.	41.	54.	14:23	29.	23:59	N.A.
25	44.	54.	37.	62.	16:17	24.	5:51	N.A.
26	51.	62.	42.	68.	14:30	30.	5:37	N.A.
27	51.	61.	43.	67.	13:58	34.	5:21	N.A.
28	50.	61.	42.	66.	13:51	31.	5:14	N.A.
29	53.	65.	43.	73.	14:48	30.	5: 6	N.A.
30	56.	67.	47.	72.	13:49	32.	5:27	N.A.
31	55.	65.	48.	72.	14:16	34.	5:39	N.A.
MEAN	53.	61.	46.					N.A.
STANDARD DEVIATION	6.1	7.7	5.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: HULLCO CONSTRUCTION
PRESCOTT, ARIZONA

REPORT PERIOD: 80/ 5
SITE NUMBER: 148

LATITUDE: 34.00 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: MOUNTAIN
LONGITUDE: 114.40 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 7000 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	*	1.	*	2.	7.	*	14:13
2	*	1.	*	2.	9.	*	15:30
3	*	1.	*	2.	5.	*	13:49
4	319.	2.	313.	3.	13.	39.	17:39
5	*	*	*	*	*	*	*:*
6	*	*	*	*	*	*	*:*
7	*	*	*	*	*	*	*:*
8	*	*	*	*	*	*	*:*
9	273.	9.	268.	9.	14.	277.	17:57
10	275.	10.	269.	11.	18.	283.	9:41
11	284.	8.	283.	11.	19.	282.	11:27
12	272.	4.	270.	6.	9.	298.	17: 0
13	281.	3.	280.	5.	10.	295.	10:10
14	294.	4.	293.	7.	37.	313.	16:41
15	325.	2.	318.	4.	39.	32.	18:29
16	306.	2.	310.	4.	10.	296.	18: 8
17	310.	2.	308.	4.	11.	313.	15:28
18	*	1.	*	2.	6.	*	10:42
19	*	1.	*	3.	7.	*	12: 7
20	*	1.	*	2.	6.	*	14:51
21	292.	3.	290.	4.	8.	293.	22:23
22	281.	4.	278.	7.	15.	298.	16: 0
23	279.	8.	277.	10.	16.	273.	15:43
24	289.	8.	290.	10.	15.	289.	1: 9
25	290.	3.	288.	5.	11.	266.	8:10
26	273.	3.	273.	5.	11.	280.	12:38
27	279.	3.	281.	5.	9.	291.	8:49
28	272.	3.	271.	6.	10.	272.	15:22
29	*	2.	*	3.	8.	*	17:49
30	276.	5.	272.	5.	15.	279.	22:22
31	267.	3.	268.	4.	8.	266.	15:15
MEAN	287.	3.	285.	5.			
STANDARD DEVIATION	16.5	2.6	16.0	2.8			

ENVIRONMENTAL SUMMARY REPORT

SITE: HULLCO CONSTRUCTION
PRESCOTT, ARIZONA

REPORT PERIOD: 80/ 5
SITE NUMBER: 148

LATITUDE: 34.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 114.40 DEG WEST PYRANOMETER TILT: 60 DEG ALTITUDE: 7000 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	23	1	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	12	5	0	0	0	0	0	0	7
5	0	0	0	0	0	0	0	0	24
6	0	0	0	0	0	0	0	0	24
7	0	0	0	0	0	0	0	0	24
8	0	0	0	0	0	0	0	0	24
9	0	3	14	0	0	0	0	0	7
10	0	7	17	0	0	0	0	0	0
11	5	5	13	1	0	0	0	0	0
12	12	12	0	0	0	0	0	0	0
13	14	10	0	0	0	0	0	0	0
14	14	5	4	1	0	0	0	0	0
15	16	7	1	0	0	0	0	0	0
16	16	8	0	0	0	0	0	0	0
17	17	7	0	0	0	0	0	0	0
18	23	1	0	0	0	0	0	0	0
19	23	1	0	0	0	0	0	0	0
20	22	2	0	0	0	0	0	0	0
21	14	10	0	0	0	0	0	0	0
22	13	6	5	0	0	0	0	0	0
23	5	4	15	0	0	0	0	0	0
24	6	4	14	0	0	0	0	0	0
25	14	10	0	0	0	0	0	0	0
26	14	10	0	0	0	0	0	0	0
27	14	10	0	0	0	0	0	0	0
28	13	11	0	0	0	0	0	0	0
29	17	7	0	0	0	0	0	0	0
30	10	9	5	0	0	0	0	0	0
31	12	11	0	0	0	0	0	0	1
AVERAGE	12.2	5.4	2.8	0.1	0.0	0.0	0.0	0.0	3.6
TOTAL	377	166	88	2	0	0	0	0	111

ENVIRONMENTAL SUMMARY REPORT

SITE: HULLCO CONSTRUCTION
PRESCOTT, ARIZONA

REPORT PERIOD: 80/ 5
SITE NUMBER: 148

LATITUDE: 34.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 114.40 DEG WEST PYRANOMETER TILT: 60 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 7000 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	90.	80.	98.	100.	0: 0	47.	17:10
2	77.	63.	89.	100.	0: 1	25.	17:43
3	62.	37.	83.	100.	0: 2	12.	13:54
4	62.	37.	100.	100.	0:23	17.	16:22
5	*	*	*	*	*:*	*	*:*
6	*	*	*	*	*:*	*	*:*
7	*	*	*	*	*:*	*	*:*
8	*	*	*	*	*:*	*	*:*
9	24.	21.	27.	37.	23:59	13.	16:21
10	45.	40.	49.	68.	23:49	24.	16:26
11	62.	57.	66.	100.	2:29	14.	16:26
12	51.	31.	66.	100.	3:18	12.	16:23
13	45.	25.	62.	100.	0:39	7.	13:54
14	62.	42.	79.	100.	16: 9	19.	13:13
15	91.	78.	100.	100.	0: 3	43.	13: 7
16	71.	55.	83.	100.	0: 5	23.	17:25
17	56.	33.	75.	100.	0: 0	16.	12:42
18	56.	29.	76.	100.	0:16	11.	15:14
19	48.	24.	67.	100.	1:38	8.	14:53
20	37.	16.	53.	100.	4:32	2.	13:36
21	23.	11.	32.	81.	6:18	0.	15:22
22	33.	19.	42.	62.	6:49	11.	11:48
23	37.	33.	40.	94.	5:46	3.	18:23
24	29.	21.	36.	59.	23:54	6.	15: 6
25	32.	12.	47.	84.	6: 2	4.	14:29
26	30.	11.	46.	87.	5:58	0.	14:35
27	32.	13.	47.	74.	5:26	4.	10:57
28	40.	18.	58.	100.	3: 0	7.	14:50
29	28.	10.	42.	77.	5:22	0.	12: 8
30	22.	7.	34.	67.	5:27	0.	9:59
31	21.	10.	29.	60.	6:22	1.	16: 8
MEAN	47.	31.	60.				
STANDARD DEVIATION	20.	20.	23.				

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
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

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	55.	62.	47.	75.	15: 3	39.	5:43	N.A.
2	59.	66.	51.	80.	15:20	38.	5:15	N.A.
3	57.	64.	51.	76.	13:39	45.	23:58	N.A.
4	62.	71.	52.	85.	15:24	39.	5:18	N.A.
5	64.	74.	55.	84.	13:37	47.	5:21	N.A.
6	65.	73.	56.	87.	14:28	45.	5:24	N.A.
7	63.	73.	54.	85.	14:46	49.	5:15	N.A.
8	61.	68.	55.	80.	15:52	44.	5:12	N.A.
9	64.	71.	57.	81.	13:54	44.	5: 1	N.A.
10	66.	73.	58.	83.	15: 2	48.	5: 5	N.A.
11	59.	65.	55.	73.	11: 2	48.	3:13	N.A.
12	56.	63.	48.	70.	15:54	35.	4:42	N.A.
13	60.	68.	51.	76.	11:27	37.	4:26	N.A.
14	57.	60.	54.	69.	12:23	49.	16:10	N.A.
15	48.	49.	48.	59.	7:32	43.	13: 8	N.A.
16	56.	64.	49.	75.	16:54	38.	2:35	N.A.
17	63.	70.	55.	80.	10:51	49.	5:10	N.A.
18	60.	68.	53.	80.	13:51	43.	5:15	N.A.
19	66.	74.	57.	86.	14:40	44.	4:47	N.A.
20	70.	79.	61.	90.	16:16	47.	5:12	N.A.
21	75.	83.	68.	96.	14:56	61.	5: 4	N.A.
22	73.	81.	63.	92.	13: 2	58.	5: 8	N.A.
23	67.	75.	59.	85.	13:35	46.	4:58	N.A.
24	67.	76.	57.	83.	14:18	48.	4:42	N.A.
25	63.	72.	54.	83.	14:24	34.	5: 9	N.A.
26	66.	75.	57.	84.	16:35	42.	5:23	N.A.
27	68.	77.	59.	86.	13:13	50.	4: 9	N.A.
28	69.	79.	58.	88.	15: 6	46.	4:46	N.A.
29	64.	74.	56.	82.	15:56	45.	5:21	N.A.
30	70.	80.	59.	90.	15:56	42.	4:28	N.A.
31	71.	81.	61.	89.	15:18	46.	5:16	N.A.
MEAN	63.	71.	55.					N.A.
STANDARD DEVIATION	5.9	7.3	4.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
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	MAXIMUM WIND DIRECTION	TIME HR:MN
1	285.	3.	*****	3.	11.	267.	22:24
2	274.	4.	289.	3.	16.	288.	22:43
3	287.	5.	329.	5.	18.	288.	16:14
4	*	1.	*	1.	8.	*	11:56
5	*	3.	*	3.	16.	*	16:26
6	*	2.	*	2.	16.	*	14:55
7	141.	3.	78.	4.	16.	150.	16:46
8	237.	2.	229.	2.	11.	176.	12:35
9	72.	5.	72.	6.	17.	47.	13:38
10	61.	7.	62.	11.	21.	55.	14:25
11	43.	9.	26.	11.	23.	52.	18: 7
12	85.	5.	80.	7.	18.	44.	13:46
13	360.	3.	16.	4.	10.	61.	12:31
14	267.	13.	261.	13.	21.	284.	21:56
15	257.	5.	228.	5.	19.	293.	0:10
16	*	1.	*	2.	7.	*	13:42
17	85.	5.	92.	7.	13.	128.	13:36
18	*	3.	*	3.	23.	*	15:59
19	*	1.	*	2.	6.	*	5:25
20	199.	2.	137.	2.	17.	283.	23:44
21	282.	7.	290.	4.	20.	306.	3:39
22	298.	9.	354.	7.	20.	279.	17:35
23	54.	3.	58.	5.	13.	28.	16:26
24	38.	9.	25.	12.	27.	52.	14:50
25	36.	5.	20.	6.	17.	351.	16:51
26	354.	5.	6.	7.	20.	9.	17:50
27	18.	5.	18.	8.	24.	335.	16:25
28	12.	5.	17.	8.	21.	21.	16:44
29	95.	2.	92.	4.	11.	59.	11:19
30	356.	4.	4.	5.	16.	347.	18:57
31	42.	4.	42.	7.	17.	49.	16:38
MEAN	170.	5.	118.	5.			
STANDARD DEVIATION	123.4	2.7	115.3	3.2			

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 80/ 5
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: 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	8	2	0	0	0	0	0	0
2	14	6	4	0	0	0	0	0	0
3	12	5	7	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	18	5	1	0	0	0	0	0	0
6	22	1	1	0	0	0	0	0	0
7	18	4	2	0	0	0	0	0	0
8	21	3	0	0	0	0	0	0	0
9	10	8	6	0	0	0	0	0	0
10	9	6	3	6	0	0	0	0	0
11	5	4	3	8	0	0	0	0	4
12	14	4	6	0	0	0	0	0	0
13	17	5	2	0	0	0	0	0	0
14	0	0	12	12	0	0	0	0	0
15	11	8	4	1	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	9	11	4	0	0	0	0	0	0
18	19	4	1	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	21	1	0	2	0	0	0	0	0
21	10	5	4	5	0	0	0	0	0
22	5	7	7	5	0	0	0	0	0
23	13	10	1	0	0	0	0	0	0
24	7	5	4	6	2	0	0	0	0
25	13	3	7	1	0	0	0	0	0
26	12	7	2	3	0	0	0	0	0
27	14	3	6	1	0	0	0	0	0
28	12	4	5	3	0	0	0	0	0
29	16	6	0	0	0	0	0	0	2
30	14	5	5	0	0	0	0	0	0
31	12	2	9	0	0	0	0	0	1
AVERAGE	14.0	4.5	3.5	1.7	0.1	0.0	0.0	0.0	0.2
TOTAL	434	140	108	53	2	0	0	0	7

ENVIRONMENTAL SUMMARY REPORT

SITE: PERL-MACK ENTERPRISES
DENVER, COLORADO

REPORT PERIOD: 80/ 5
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	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	488.	N.A.	N.A.	176.	12:37	3355.	15.
2	*	N.A.	N.A.	*	*:*	3354.	*
3	1846.	N.A.	N.A.	360.	14: 8	3350.	55.
4	1919.	N.A.	N.A.	329.	13:28	3349.	57.
5	1610.	N.A.	N.A.	355.	13:49	3345.	48.
6	1646.	N.A.	N.A.	332.	14:21	3344.	49.
7	*	N.A.	N.A.	*	*:*	3343.	*
8	1097.	N.A.	N.A.	213.	15:27	3342.	33.
9	2081.	N.A.	N.A.	326.	13:27	3340.	62.
10	2249.	N.A.	N.A.	352.	13:39	3339.	67.
11	155.	N.A.	N.A.	81.	14: 6	3335.	5.
12	2072.	N.A.	N.A.	332.	12:52	3333.	62.
13	1664.	N.A.	N.A.	334.	15:12	3332.	50.
14	1389.	N.A.	N.A.	337.	13:38	3330.	42.
15	433.	N.A.	N.A.	173.	11:59	3329.	13.
16	1057.	N.A.	N.A.	363.	13:58	3327.	32.
17	266.	N.A.	N.A.	81.	16: 6	3323.	8.
18	1825.	N.A.	N.A.	343.	10:41	3321.	55.
19	1856.	N.A.	N.A.	311.	11:51	3319.	56.
20	2236.	N.A.	N.A.	323.	11:20	3318.	67.
21	2301.	N.A.	N.A.	314.	11:43	3313.	69.
22	2002.	N.A.	N.A.	303.	11:44	3311.	60.
23	2341.	N.A.	N.A.	311.	11:47	3310.	71.
24	2386.	N.A.	N.A.	317.	12:10	3308.	72.
25	*	N.A.	N.A.	*	*:*	3306.	*
26	2429.	N.A.	N.A.	349.	12: 0	3305.	74.
27	2195.	N.A.	N.A.	323.	11:49	3303.	66.
28	2245.	N.A.	N.A.	317.	11:25	3302.	68.
29	*	N.A.	N.A.	*	*:*	3297.	*
30	2243.	N.A.	N.A.	314.	12: 2	3296.	68.
31	2288.	N.A.	N.A.	326.	11:51	3294.	69.
MEAN	1716.	N.A.	N.A.			3325.	
STANDARD DEVIATION	691.	N.A.	N.A.			19.	

ENVIRONMENTAL SUMMARY REPORT

SITE: PERL-MACK ENTERPRISES
DENVER, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 60

LATITUDE: 39.80 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: MOUNTAIN
LONGITUDE: 104.00 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 5250 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	43.	44.	42.	57.	13:25	39.	1:15	*
2	50.	55.	45.	64.	15:57	43.	6:21	*
3	55.	59.	51.	73.	14: 3	43.	6:45	*
4	56.	58.	52.	73.	16:40	44.	6: 8	*
5	57.	59.	54.	72.	16:24	46.	5:49	*
6	58.	64.	53.	77.	18:18	46.	6:58	*
7	53.	57.	48.	63.	14:55	46.	4:36	*
8	52.	54.	49.	60.	14:39	46.	23:24	*
9	55.	61.	49.	75.	13: 0	41.	4:28	*
10	59.	65.	54.	75.	17:18	42.	6:54	*
11	45.	45.	45.	50.	0:14	42.	21: 7	*
12	48.	52.	44.	63.	13:56	37.	7:53	*
13	48.	52.	45.	64.	14:29	35.	6:24	*
14	49.	53.	45.	66.	14:53	38.	6:32	*
15	47.	48.	46.	56.	12:15	43.	22:57	*
16	45.	47.	43.	58.	16:11	38.	6:51	*
17	40.	39.	41.	43.	0:27	37.	14:40	*
18	49.	54.	42.	64.	15:13	38.	2:14	*
19	59.	66.	50.	77.	13:21	41.	4:28	*
20	63.	71.	54.	78.	15:38	47.	3: 9	*
21	66.	74.	57.	80.	15:12	49.	4: 4	*
22	67.	76.	60.	85.	13:15	53.	4:48	*
23	67.	72.	62.	83.	15:16	51.	4:51	*
24	67.	73.	60.	80.	15:17	51.	4:26	*
25	58.	65.	52.	75.	15: 1	39.	4:58	*
26	59.	65.	52.	78.	16: 5	42.	4:26	*
27	63.	73.	53.	84.	12:48	44.	4:26	*
28	67.	75.	58.	83.	16:44	49.	3:57	*
29	58.	67.	53.	71.	9:48	43.	23:40	*
30	63.	71.	52.	78.	14:26	42.	5:11	*
31	66.	77.	56.	84.	16: 2	45.	5: 1	*
MEAN	56.	61.	51.					0.
STANDARD DEVIATION	7.9	10.5	5.8					****

ENVIRONMENTAL SUMMARY REPORT

SITE: PUBLIC SERVICE
RIO RANCHO, NEW MEXICO

REPORT PERIOD: 80/ 5
SITE NUMBER: 201

LATITUDE: 35.03 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 106.37 DEG WEST PYRANOMETER TILT: 32 DEG TIME ZONE: MOUNTAIN
ALTITUDE: 5311 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	1283.	N.A.	N.A.	323.	10:47	3236.	40.
2	1965.	N.A.	N.A.	317.	12:46	3231.	61.
3	1420.	N.A.	N.A.	299.	10:14	3226.	44.
4	1902.	N.A.	N.A.	308.	12:56	3222.	59.
5	1915.	N.A.	N.A.	308.	12:24	3217.	60.
6	*	N.A.	N.A.	*	*:*	3213.	*
7	1588.	N.A.	N.A.	314.	10:48	3205.	50.
8	1451.	N.A.	N.A.	330.	12:31	3200.	45.
9	1686.	N.A.	N.A.	323.	11:36	3196.	53.
10	2090.	N.A.	N.A.	311.	12: 0	3191.	66.
11	1071.	N.A.	N.A.	308.	10:56	3186.	34.
12	2143.	N.A.	N.A.	308.	12:13	3182.	67.
13	1883.	N.A.	N.A.	299.	11:26	3177.	59.
14	1037.	N.A.	N.A.	287.	11:43	3173.	33.
15	466.	N.A.	N.A.	134.	15:28	3168.	15.
16	1376.	N.A.	N.A.	342.	12:48	3164.	43.
17	1752.	N.A.	N.A.	336.	11: 4	3159.	55.
18	1588.	N.A.	N.A.	330.	11:51	3155.	50.
19	2277.	N.A.	N.A.	305.	12:39	3150.	72.
20	2026.	N.A.	N.A.	290.	11:38	3146.	64.
21	1981.	N.A.	N.A.	290.	12:15	3142.	63.
22	1755.	N.A.	N.A.	290.	12:23	3138.	56.
23	2072.	N.A.	N.A.	299.	11:48	3134.	66.
24	2090.	N.A.	N.A.	302.	12:11	3130.	67.
25	2062.	N.A.	N.A.	339.	11:34	3126.	66.
26	2008.	N.A.	N.A.	305.	11:57	3122.	64.
27	1677.	N.A.	N.A.	317.	12:45	3119.	54.
28	2032.	N.A.	N.A.	302.	11:53	3115.	65.
29	2112.	N.A.	N.A.	305.	11:57	3109.	68.
30	2038.	N.A.	N.A.	302.	12:17	3105.	66.
31	2088.	N.A.	N.A.	299.	11:45	3102.	67.
MEAN	1761.	N.A.	N.A.			3166.	
STANDARD DEVIATION	407.	N.A.	N.A.			41.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TEMPE UNION HIGH SCHOOL
TEMPE, ARIZONA

REPORT PERIOD: 80/ 5
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

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	
						PERCENT	
				TIME			
				HR:MN			
1	2068.	N.A.	N.A.	342.	13: 3	3198.	65.
2	2056.	N.A.	N.A.	317.	12:32	3192.	64.
3	2232.	N.A.	N.A.	311.	12:27	3187.	70.
4	2180.	N.A.	N.A.	311.	12:29	3181.	69.
5	2056.	N.A.	N.A.	336.	12:29	3176.	65.
6	2129.	N.A.	N.A.	311.	12:12	3170.	67.
7	2196.	N.A.	N.A.	317.	12:28	3165.	69.
8	2318.	N.A.	N.A.	317.	12:32	3159.	73.
9	2001.	N.A.	N.A.	317.	13:13	3154.	63.
10	2237.	N.A.	N.A.	320.	12:29	3148.	71.
11	1379.	N.A.	N.A.	320.	11:36	3143.	44.
12	2364.	N.A.	N.A.	317.	12:22	3137.	75.
13	2026.	N.A.	N.A.	333.	13:17	3132.	65.
14	2156.	N.A.	N.A.	327.	12:13	3127.	69.
15	1854.	N.A.	N.A.	361.	12:50	3122.	59.
16	2128.	N.A.	N.A.	295.	11:50	3116.	68.
17	1767.	N.A.	N.A.	298.	14: 9	3111.	57.
18	2152.	N.A.	N.A.	301.	11:53	3106.	69.
19	2174.	N.A.	N.A.	301.	11:48	3098.	70.
20	2211.	N.A.	N.A.	295.	11:54	3093.	71.
21	2221.	N.A.	N.A.	301.	11:47	3089.	72.
22	2234.	N.A.	N.A.	308.	12:14	3084.	72.
23	2217.	N.A.	N.A.	301.	11:44	3079.	72.
24	2314.	N.A.	N.A.	311.	12:26	3075.	75.
25	2252.	N.A.	N.A.	304.	11:48	3070.	73.
26	2387.	N.A.	N.A.	304.	11:45	3066.	78.
27	2258.	N.A.	N.A.	298.	11:50	3062.	74.
28	*	N.A.	N.A.	*	*:*	3058.	*
29	*	N.A.	N.A.	*	*:*	3054.	*
30	2792.	N.A.	N.A.	304.	11:45	3050.	92.
31	2235.	N.A.	N.A.	298.	11:35	3046.	73.
MEAN	2158.	N.A.	N.A.			3118.	
STANDARD DEVIATION	233.	N.A.	N.A.			47.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TEMPE UNION HIGH SCHOOL
 TEMPE, ARIZONA

REPORT PERIOD: 80/ 5
 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	67.	74.	61.	86.	16:15	53.	3:38	102.
2	73.	81.	65.	93.	16:11	59.	2:40	104.
3	75.	84.	67.	95.	17: 4	53.	4:43	97.
4	81.	90.	72.	100.	15:30	57.	5:57	93.
5	80.	88.	72.	100.	17: 5	62.	5:28	90.
6	80.	88.	72.	98.	15:56	57.	5:32	89.
7	78.	85.	71.	93.	16:16	62.	23:22	99.
8	75.	83.	66.	91.	15: 1	56.	4:48	96.
9	74.	80.	67.	89.	13:55	55.	5:34	107.
10	72.	77.	67.	86.	16: 3	56.	5:49	110.
11	64.	65.	63.	72.	17:19	54.	23:59	96.
12	67.	75.	58.	85.	15:12	45.	5:25	97.
13	71.	79.	64.	90.	16:50	49.	5: 6	105.
14	73.	79.	66.	87.	16:18	58.	5:54	103.
15	68.	75.	62.	83.	15:45	52.	3:40	106.
16	74.	82.	67.	92.	17:48	55.	5:21	112.
17	78.	87.	70.	98.	16:44	58.	5:32	108.
18	81.	89.	72.	100.	13:56	59.	5:26	98.
19	84.	93.	76.	104.	17:25	66.	3:11	91.
20	84.	93.	76.	107.	17:23	61.	5:30	100.
21	82.	91.	74.	100.	14:17	62.	5:45	108.
22	75.	81.	69.	87.	12:52	62.	4:30	108.
23	74.	82.	66.	88.	12:54	57.	5:20	100.
24	63.	67.	59.	75.	15:54	51.	5: 3	72.
25	65.	72.	57.	84.	16: 3	46.	5:35	72.
26	72.	82.	63.	87.	15:50	50.	4:35	74.
27	71.	79.	64.	89.	14:25	51.	4:11	101.
28	70.	80.	57.	94.	14:34	52.	4:42	111.
29	*	*	*	*	*:*	*	*:*	*
30	82.	89.	72.	94.	16: 7	64.	23:57	114.
31	76.	84.	67.	97.	15:35	53.	5:27	107.
MEAN	74.	82.	67.					99.
STANDARD DEVIATION	5.9	7.0	5.3					11.0

ENVIRONMENTAL SUMMARY REPORT

SITE: WAVERLY HOMES
WESTMINSTER, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 69

LATITUDE: 39.75 DEG NORTH AZIMUTH: -1 DEG TIME_ZONE: MOUNTAIN
LONGITUDE: 105.00 DEG WEST PYRANOMETER TILT: 53 DEG ALTITUDE: 5220 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.	*	*:*	2784.	*
2	*	N.A.	N.A.	*	*:*	2772.	*
3	*	N.A.	N.A.	*	*:*	2762.	*
4	*	N.A.	N.A.	*	*:*	2746.	*
5	*	N.A.	N.A.	*	*:*	2737.	*
6	*	N.A.	N.A.	*	*:*	2725.	*
7	*	N.A.	N.A.	*	*:*	2715.	*
8	*	N.A.	N.A.	*	*:*	2704.	*
9	*	N.A.	N.A.	*	*:*	2692.	*
10	*	N.A.	N.A.	*	*:*	2680.	*
11	*	N.A.	N.A.	*	*:*	2671.	*
12	*	N.A.	N.A.	*	*:*	2660.	*
13	*	N.A.	N.A.	*	*:*	2652.	*
14	*	N.A.	N.A.	*	*:*	2641.	*
15	*	N.A.	N.A.	*	*:*	2630.	*
16	*	N.A.	N.A.	*	*:*	2620.	*
17	*	N.A.	N.A.	*	*:*	2610.	*
18	*	N.A.	N.A.	*	*:*	2602.	*
19	*	N.A.	N.A.	*	*:*	2592.	*
20	*	N.A.	N.A.	*	*:*	2583.	* Begin
21	*	N.A.	N.A.	*	*:*	2573.	* data
22	*	N.A.	N.A.	*	*:*	2564.	* collection
23	*	N.A.	N.A.	*	*:*	2558.	*
24	1670.	N.A.	N.A.	245.	11:52	2549.	66.
25	1741.	N.A.	N.A.	251.	11:20	2541.	69.
26	1978.	N.A.	N.A.	277.	11:49	2535.	78.
27	1475.	N.A.	N.A.	257.	11: 6	2527.	58.
28	1653.	N.A.	N.A.	251.	13: 2	2520.	66.
29	1143.	N.A.	N.A.	245.	13:14	2512.	45.
30	1669.	N.A.	N.A.	242.	11:24	2505.	67.
31	1751.	N.A.	N.A.	260.	11:37	2499.	70.
MEAN	1635.	N.A.	N.A.			2628.	
STANDARD DEVIATION	243.	N.A.	N.A.			87.	

ENVIRONMENTAL SUMMARY REPORT

SITE: WAVERLY HOMES
WESTMINSTER, COLORADO

REPORT PERIOD: 80/ 5
SITE NUMBER: 69

LATITUDE: 39.75 DEG NORTH AZIMUTH: -1 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 105.00 DEG WEST PYRANOMETER TILT: 53 DEG ALTITUDE: 5220 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	*	*	*	*	*:*	*	*:*	*
2	*	*	*	*	*:*	*	*:*	*
3	*	*	*	*	*:*	*	*:*	*
4	*	*	*	*	*:*	*	*:*	*
5	*	*	*	*	*:*	*	*:*	*
6	*	*	*	*	*:*	*	*:*	*
7	*	*	*	*	*:*	*	*:*	*
8	*	*	*	*	*:*	*	*:*	*
9	*	*	*	*	*:*	*	*:*	*
10	*	*	*	*	*:*	*	*:*	*
11	*	*	*	*	*:*	*	*:*	*
12	*	*	*	*	*:*	*	*:*	*
13	*	*	*	*	*:*	*	*:*	*
14	*	*	*	*	*:*	*	*:*	*
15	*	*	*	*	*:*	*	*:*	*
16	*	*	*	*	*:*	*	*:*	*
17	*	*	*	*	*:*	*	*:*	* begin data
18	*	*	*	*	*:*	*	*:*	* collection
19	*	*	*	*	*:*	*	*:*	*
20	*	*	*	*	*:*	*	*:*	*
21	*	*	*	*	*:*	*	*:*	*-----
22	68.	79.	60.	84.	15: 6	56.	22:20	0.
23	67.	83.	60.	88.	15:18	48.	3:24	0.
24	69.	78.	62.	84.	14:10	51.	5: 1	0.
25	65.	74.	56.	84.	15: 2	45.	3:25	0.
26	68.	71.	62.	77.	15:12	56.	23:39	0.
27	69.	82.	57.	90.	14:40	44.	4:37	0.
28	70.	84.	58.	89.	14: 6	46.	4:40	0.
29	63.	73.	54.	85.	9: 9	47.	23:56	0.
30	66.	78.	56.	84.	14:30	41.	4:44	0.
31	70.	84.	58.	92.	14:49	45.	5: 8	0.
MEAN	68.	78.	59.					0.
STANDARD DEVIATION	2.4	4.7	2.6					0.0

ZONE 9



ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 80/ 5
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	1833.	N.A.	N.A.	313.	12:31	3307.	55.
2	2029.	N.A.	N.A.	294.	11:22	3304.	61.
3	1743.	N.A.	N.A.	278.	11:37	3302.	53.
4	2090.	N.A.	N.A.	297.	11:33	3299.	63.
5	1458.	N.A.	N.A.	278.	10:19	3294.	44.
6	2158.	N.A.	N.A.	303.	11:24	3291.	66.
7	2169.	N.A.	N.A.	310.	11:43	3288.	66.
8	1935.	N.A.	N.A.	316.	11:59	3285.	59.
9	632.	N.A.	N.A.	205.	12: 2	3280.	19.
10	2015.	N.A.	N.A.	354.	10:59	3277.	61.
11	1685.	N.A.	N.A.	344.	11:15	3274.	51.
12	1815.	N.A.	N.A.	351.	11:50	3271.	55.
13	1281.	N.A.	N.A.	272.	14:54	3268.	39.
14	1984.	N.A.	N.A.	316.	12:52	3265.	61.
15	2161.	N.A.	N.A.	300.	11:48	3262.	66.
16	2057.	N.A.	N.A.	306.	11:46	3260.	63.
17	2155.	N.A.	N.A.	297.	11:50	3257.	66.
18	2135.	N.A.	N.A.	294.	11:37	3251.	66.
19	2104.	N.A.	N.A.	294.	11:16	3248.	65.
20	1860.	N.A.	N.A.	303.	12:12	3245.	57.
21	2033.	N.A.	N.A.	297.	11:19	3242.	63.
22	2093.	N.A.	N.A.	332.	11:48	3240.	65.
23	1759.	N.A.	N.A.	316.	11:38	3237.	54.
24	1868.	N.A.	N.A.	344.	11:39	3234.	58.
25	1972.	N.A.	N.A.	335.	11:39	3231.	61.
26	2098.	N.A.	N.A.	300.	11:36	3229.	65.
27	2037.	N.A.	N.A.	284.	11:36	3226.	63.
28	2031.	N.A.	N.A.	294.	11:32	3224.	63.
29	2118.	N.A.	N.A.	284.	11:30	3218.	66.
30	2097.	N.A.	N.A.	287.	11:49	3216.	65.
31	2033.	N.A.	N.A.	281.	11:23	3214.	63.
MEAN	1917.	N.A.	N.A.			3259.	
STANDARD DEVIATION	316.	N.A.	N.A.			29.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 80/ 5
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	69.	74.	63.	86.	15:43	56.	1:46	72.
2	73.	80.	65.	91.	15:37	57.	3:54	73.
3	75.	83.	67.	94.	15: 5	57.	4:46	80.
4	77.	86.	67.	98.	13:41	57.	4:57	79.
5	71.	79.	63.	88.	12:37	56.	5:15	72.
6	66.	73.	60.	83.	14:55	51.	5:16	73.
7	68.	76.	61.	88.	14: 7	49.	4:47	73.
8	68.	77.	58.	86.	12:15	52.	5: 8	74.
9	57.	60.	55.	70.	12:23	52.	23:20	73.
10	56.	62.	50.	70.	15:42	47.	23:58	74.
11	57.	64.	51.	74.	13:44	44.	3:42	77.
12	61.	67.	55.	76.	12:54	45.	4:38	73.
13	64.	70.	57.	82.	14:54	52.	4:44	73.
14	63.	69.	58.	79.	13:40	51.	5:13	73.
15	67.	73.	60.	85.	16: 2	50.	4:10	73.
16	71.	78.	63.	87.	15: 7	52.	4:50	74.
17	75.	84.	66.	96.	16:17	54.	4:33	77.
18	80.	90.	70.	101.	15: 5	58.	4:59	77.
19	82.	92.	73.	104.	14:58	60.	4:36	73.
20	83.	92.	73.	101.	12:34	61.	4:39	74.
21	73.	80.	66.	92.	15: 5	59.	5:17	75.
22	65.	72.	59.	80.	14:45	52.	23:54	75.
23	55.	60.	50.	69.	13:26	46.	4:42	74.
24	56.	62.	50.	72.	14:45	48.	1: 4	63.
25	61.	68.	53.	78.	14:37	40.	3:55	67.
26	65.	73.	57.	83.	13:44	46.	5: 7	74.
27	65.	72.	57.	83.	15:47	47.	4:45	74.
28	65.	70.	60.	82.	14: 5	54.	4: 8	74.
29	68.	74.	61.	85.	16:16	51.	4:39	73.
30	69.	77.	60.	86.	14:56	53.	4:48	72.
31	67.	72.	61.	83.	15:28	53.	2:51	86.
MEAN	68.	74.	60.					74.
STANDARD DEVIATION	7.5	8.8	6.3					3.8

ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 80/ 5
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	MAXIMUM WIND DIRECTION	TIME HR:MN
1	*	2.	*	2.	9.	*	10:34
2	*	2.	*	2.	9.	*	8:47
3	297.	2.	307.	2.	10.	303.	16:46
4	286.	4.	282.	2.	21.	295.	20:37
5	290.	6.	291.	5.	22.	278.	19:45
6	291.	7.	293.	7.	17.	299.	13:10
7	286.	4.	282.	5.	12.	266.	16:42
8	278.	6.	268.	5.	19.	286.	21:27
9	290.	5.	287.	4.	19.	275.	1:59
10	288.	6.	284.	6.	18.	282.	18:0
11	289.	3.	286.	3.	12.	295.	19:23
12	289.	3.	286.	4.	13.	285.	9:15
13	287.	5.	282.	4.	18.	282.	18:22
14	287.	6.	284.	6.	16.	280.	2:6
15	287.	6.	284.	5.	13.	285.	7:43
16	284.	5.	281.	4.	13.	279.	23:50
17	282.	2.	273.	2.	12.	276.	16:43
18	299.	2.	*	3.	12.	259.	17:29
19	291.	4.	291.	3.	12.	296.	17:54
20	300.	4.	89.	3.	13.	272.	21:17
21	302.	5.	76.	4.	17.	263.	19:53
22	284.	9.	284.	9.	25.	303.	21:4
23	270.	8.	260.	10.	24.	170.	14:24
24	294.	4.	292.	6.	18.	324.	13:25
25	285.	3.	*	2.	11.	330.	21:33
26	279.	3.	231.	2.	13.	300.	22:21
27	284.	5.	273.	3.	18.	278.	20:13
28	288.	5.	289.	3.	14.	270.	2:11
29	289.	6.	284.	5.	15.	301.	22:29
30	290.	5.	281.	4.	16.	264.	14:29
31	287.	5.	280.	4.	12.	250.	11:7
MEAN	288.	5.	267.	4.			
STANDARD DEVIATION	6.6	1.8	54.7	1.9			

ENVIRONMENTAL SUMMARY REPORT

SITE: ARATEX SERVICES
FRESNO, CALIFORNIA

REPORT PERIOD: 80/ 5
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: 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	23	1	0	0	0	0	0	0	0
2	22	4	0	0	0	0	0	0	0
3	20	4	0	0	0	0	0	0	0
4	16	4	4	0	0	0	0	0	0
5	12	2	9	1	0	0	0	0	0
6	0	17	7	0	0	0	0	0	0
7	15	8	1	0	0	0	0	0	0
8	10	4	10	0	0	0	0	0	0
9	13	4	7	0	0	0	0	0	0
10	5	16	3	0	0	0	0	0	0
11	15	8	1	0	0	0	0	0	0
12	16	8	0	0	0	0	0	0	0
13	7	14	3	0	0	0	0	0	0
14	3	16	5	0	0	0	0	0	0
15	5	16	3	0	0	0	0	0	0
16	8	15	1	0	0	0	0	0	0
17	22	2	0	0	0	0	0	0	0
18	20	4	0	0	0	0	0	0	0
19	14	7	3	0	0	0	0	0	0
20	16	4	4	0	0	0	0	0	0
21	10	10	4	0	0	0	0	0	0
22	3	7	11	3	0	0	0	0	0
23	5	4	15	0	0	0	0	0	0
24	11	9	4	0	0	0	0	0	0
25	18	6	0	0	0	0	0	0	0
26	17	6	1	0	0	0	0	0	0
27	10	7	7	0	0	0	0	0	0
28	12	7	5	0	0	0	0	0	0
29	5	11	8	0	0	0	0	0	0
30	10	8	6	0	0	0	0	0	0
31	10	13	0	0	0	0	0	0	1
AVERAGE	12.0	7.9	3.9	0.1	0.0	0.0	0.0	0.0	0.0
TOTAL	373	244	122	4	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

SITE: FACILITIES DEVELOPMENT
SAN DIEGO, CALIFORNIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 61

LATITUDE: 32.73 DEG NORTH
LONGITUDE: 117.17 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 42 DEG

TIME ZONE: PACIFIC
ALTITUDE: 50 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	1134.	N.A.	N.A.	220.	12:22	2915.	39.
2	2360.	N.A.	N.A.	274.	10:35	2904.	81.
3	*	N.A.	N.A.	*	*:*	2896.	*
4	1698.	N.A.	N.A.	277.	11:21	2885.	59.
5	746.	N.A.	N.A.	220.	13:29	2874.	26.
6	1203.	N.A.	N.A.	289.	11: 6	2864.	42.
7	329.	N.A.	N.A.	87.	13:33	2854.	12.
8	*	N.A.	N.A.	*	*:*	2846.	*
9	1226.	N.A.	N.A.	289.	9:58	2836.	43.
10	594.	N.A.	N.A.	159.	12: 6	2826.	21.
11	1728.	N.A.	N.A.	307.	10:32	2816.	61.
12	1402.	N.A.	N.A.	346.	10:25	2806.	50.
13	396.	N.A.	N.A.	84.	13:59	2797.	14.
14	639.	N.A.	N.A.	244.	13:16	2787.	23.
15	1347.	N.A.	N.A.	286.	11:28	2781.	48.
16	1355.	N.A.	N.A.	268.	10:51	2771.	49.
17	1579.	N.A.	N.A.	289.	10:55	2763.	57.
18	1098.	N.A.	N.A.	247.	11:38	2756.	40.
19	500.	N.A.	N.A.	102.	13: 3	2748.	18.
20	396.	N.A.	N.A.	84.	10:37	2739.	14.
21	941.	N.A.	N.A.	244.	12:59	2731.	34.
22	1440.	N.A.	N.A.	277.	12: 1	2723.	53.
23	*	N.A.	N.A.	*	*:*	2715.	*
24	1799.	N.A.	N.A.	292.	11: 8	2708.	66.
25	*	N.A.	N.A.	*	*:*	2700.	*
26	*	N.A.	N.A.	*	*:*	2696.	*
27	*	N.A.	N.A.	*	*:*	2689.	*
28	1771.	N.A.	N.A.	280.	10:47	2682.	66.
29	1807.	N.A.	N.A.	262.	10:30	2675.	68.
30	1594.	N.A.	N.A.	313.	10:19	2669.	60.
31	698.	N.A.	N.A.	159.	13: 7	2663.	26.
MEAN	1191.	N.A.	N.A.			2778.	
STANDARD DEVIATION	545.	N.A.	N.A.			77.	

ENVIRONMENTAL SUMMARY REPORT

SITE: FACILITIES DEVELOPMENT
SAN DIEGO, CALIFORNIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 61

LATITUDE: 32.73 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 117.17 DEG WEST PYRANOMETER TILT: 42 DEG ALTITUDE: 50 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.	63.	55.	68.	13:47	51.	4:27	67.
2	62.	66.	56.	69.	10: 3	55.	4:43	66.
3	*	*	*	*	*:*	*	*:*	*
4	62.	64.	59.	68.	14:12	59.	19:26	67.
5	60.	62.	59.	68.	14:13	58.	1:34	67.
6	61.	63.	59.	67.	14:45	58.	4:48	67.
7	59.	60.	59.	63.	13:38	58.	2:34	67.
8	58.	61.	57.	63.	7:36	52.	5: 1	67.
9	61.	63.	59.	67.	11: 2	57.	4:43	67.
10	59.	59.	58.	61.	14:52	54.	23:57	67.
11	58.	61.	56.	63.	11:36	51.	23:51	67.
12	58.	62.	55.	65.	12:44	51.	0: 1	67.
13	57.	59.	55.	61.	13:53	51.	4:20	67.
14	59.	61.	57.	64.	13:22	53.	23:22	67.
15	60.	64.	57.	67.	11:12	54.	0: 0	67.
16	62.	64.	60.	67.	11:17	58.	1: 9	67.
17	63.	66.	60.	70.	8:31	59.	20: 5	67.
18	62.	64.	60.	68.	14:44	59.	3: 6	67.
19	61.	63.	60.	66.	13:43	58.	23:57	67.
20	60.	61.	59.	64.	11:30	57.	5:17	67.
21	62.	65.	60.	70.	12: 0	58.	4: 0	67.
22	62.	64.	59.	67.	14:25	59.	2:36	67.
23	59.	62.	57.	64.	14:10	56.	23:46	67.
24	58.	60.	56.	62.	15: 8	54.	5: 6	67.
25	63.	63.	0.	64.	13:30	62.	14: 2	67.
26	60.	62.	57.	64.	13:11	56.	21: 6	67.
27	58.	61.	55.	62.	15:35	53.	22:36	67.
28	58.	62.	54.	65.	11:46	47.	4:55	67.
29	59.	63.	55.	66.	15: 1	50.	5: 0	67.
30	60.	62.	57.	65.	14:48	55.	23: 9	68.
31	60.	61.	58.	63.	14:11	56.	0: 8	67.
MEAN	60.	62.	58.					67.
STANDARD DEVIATION	1.7	1.7	1.9					0.4

ENVIRONMENTAL SUMMARY REPORT

SITE: IRVINE SCHOOL
IRVINE, CALIFORNIA

REPORT PERIOD: 80/ 5
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	61.	65.	57.	73.	10:29	52.	23:28	N.A.
2	68.	79.	57.	85.	11:26	49.	5: 2	N.A.
3	67.	76.	58.	83.	11:39	53.	4:54	N.A.
4	67.	74.	60.	82.	14:17	56.	0:16	N.A.
5	65.	71.	60.	79.	11:42	59.	5:18	N.A.
6	66.	71.	60.	80.	11:23	59.	3:45	N.A.
7	63.	65.	60.	71.	11:57	57.	20:46	N.A.
8	63.	66.	60.	72.	15: 5	59.	2:22	N.A.
9	64.	67.	60.	73.	14: 6	58.	22:29	N.A.
10	60.	63.	57.	70.	14:56	52.	23:17	N.A.
11	61.	68.	53.	75.	10:24	48.	4:21	N.A.
12	61.	68.	55.	75.	12:38	51.	1: 0	N.A.
13	63.	71.	55.	79.	9:23	48.	3:57	N.A.
14	61.	66.	57.	72.	12:57	52.	4: 9	N.A.
15	63.	67.	58.	73.	15: 7	55.	23:55	N.A.
16	65.	73.	56.	81.	11:18	52.	3:55	N.A.
17	66.	72.	59.	83.	12:56	54.	2: 0	N.A.
18	68.	73.	62.	83.	12:49	60.	4: 3	N.A.
19	67.	72.	61.	81.	13:47	60.	23:26	N.A.
20	61.	63.	59.	67.	10:17	57.	23:57	N.A.
21	63.	68.	59.	80.	14:21	57.	0:50	N.A.
22	63.	67.	58.	73.	17: 8	53.	3:43	N.A.
23	62.	67.	57.	74.	11:22	51.	23:55	N.A.
24	59.	67.	51.	71.	10:35	45.	4:22	N.A.
25	62.	70.	52.	76.	10:19	46.	4:43	N.A.
26	61.	70.	52.	77.	10: 9	46.	4:38	N.A.
27	60.	68.	53.	73.	9:21	49.	1:31	N.A.
28	61.	68.	54.	77.	10:59	50.	1:45	N.A.
29	63.	72.	53.	78.	10:18	48.	4:10	N.A.
30	62.	68.	55.	79.	10:39	51.	3:27	N.A.
31	61.	64.	58.	67.	16:29	57.	0:51	N.A.
MEAN	63.	69.	57.					N.A.
STANDARD DEVIATION	2.5	3.7	2.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: LAKE VALLEY FIREHOUSE
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 80/ 5
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	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1948.	N.A.	N.A.	299.	11:40	2670.	73.
2	*	N.A.	N.A.	*	*:*	2656.	*
3	1412.	N.A.	N.A.	299.	11:25	2645.	53.
4	1540.	N.A.	N.A.	329.	11:48	2631.	59.
5	1071.	N.A.	N.A.	226.	9:19	2620.	41.
6	1635.	N.A.	N.A.	302.	11:17	2607.	63.
7	1451.	N.A.	N.A.	332.	10: 8	2593.	56.
8	1320.	N.A.	N.A.	279.	13:35	2583.	51.
9	779.	N.A.	N.A.	282.	11:40	2570.	30.
10	1306.	N.A.	N.A.	342.	11:36	2557.	51.
11	337.	N.A.	N.A.	173.	10:38	2547.	13.
12	1061.	N.A.	N.A.	345.	11:15	2535.	42.
13	448.	N.A.	N.A.	196.	9:54	2525.	18.
14	1216.	N.A.	N.A.	348.	11:31	2514.	48.
15	1856.	N.A.	N.A.	332.	12:44	2502.	74.
16	1838.	N.A.	N.A.	289.	11:40	2490.	74.
17	1927.	N.A.	N.A.	289.	11:39	2482.	78.
18	1879.	N.A.	N.A.	289.	12: 2	2471.	76.
19	1612.	N.A.	N.A.	275.	11:30	2460.	66.
20	1593.	N.A.	N.A.	332.	11:59	2450.	65.
21	1374.	N.A.	N.A.	312.	12:11	2442.	56.
22	1895.	N.A.	N.A.	295.	11:55	2432.	78.
23	1074.	N.A.	N.A.	285.	10:28	2425.	44.
24	529.	N.A.	N.A.	249.	11:44	2415.	22.
25	742.	N.A.	N.A.	192.	8:38	2406.	31.
26	985.	N.A.	N.A.	246.	10:27	2397.	41.
27	495.	N.A.	N.A.	146.	10: 4	2389.	21.
28	*	N.A.	N.A.	*	*:*	2383.	*
29	1185.	N.A.	N.A.	322.	11:56	2375.	50.
30	1448.	N.A.	N.A.	302.	11:49	2367.	61.
31	1214.	N.A.	N.A.	302.	13:14	2360.	51.
MEAN	1282.	N.A.	N.A.			2500.	
STANDARD DEVIATION	473.	N.A.	N.A.			95.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LAKE VALLEY FIREHOUSE
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 80/ 5
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	47.	59.	36.	69.	16:27	27.	5:26	68.
2	45.	59.	36.	67.	11: 7	28.	4:43	67.
3	50.	62.	39.	72.	15: 9	32.	4:39	66.
4	50.	62.	40.	72.	15:32	32.	4:23	68.
5	51.	62.	42.	68.	11:11	34.	3: 0	70.
6	49.	61.	38.	68.	13:41	30.	23:55	66.
7	46.	54.	37.	68.	15:48	27.	0:59	64.
8	47.	57.	38.	63.	9:35	30.	4:47	66.
9	34.	37.	32.	43.	10:58	28.	23:52	65.
10	32.	37.	28.	43.	14:32	21.	5:44	71.
11	35.	38.	32.	44.	11:15	29.	0: 3	69.
12	42.	48.	37.	56.	16:34	33.	1: 7	73.
13	40.	45.	37.	52.	9:59	31.	4:50	67.
14	43.	48.	39.	58.	13:57	34.	23: 8	66.
15	47.	57.	38.	65.	16:28	30.	5:26	67.
16	49.	63.	38.	69.	15:49	26.	4:55	63.
17	50.	63.	38.	71.	16:37	29.	4:53	66.
18	52.	66.	40.	73.	16:12	28.	4:37	66.
19	55.	68.	44.	76.	13:25	34.	4:44	68.
20	56.	71.	44.	81.	14:19	34.	4:42	69.
21	56.	69.	44.	79.	14:14	34.	5:15	70.
22	50.	62.	40.	67.	8:33	36.	5:10	68.
23	33.	37.	30.	45.	10:28	27.	4:10	66.
24	33.	37.	30.	43.	11:23	27.	0:54	76.
25	35.	43.	29.	49.	15:37	23.	4: 6	75.
26	38.	48.	31.	56.	15:56	22.	4:46	74.
27	42.	50.	35.	56.	8:12	27.	1:16	71.
28	43.	51.	38.	58.	9:45	33.	5:13	72.
29	44.	51.	37.	61.	12:17	32.	4:38	73.
30	48.	58.	39.	67.	13:57	30.	3:12	66.
31	46.	55.	39.	63.	16:37	33.	23:49	66.
MEAN	45.	54.	37.					69.
STANDARD DEVIATION	6.9	10.3	4.3					3.4

ENVIRONMENTAL SUMMARY REPORT

SITE: LAKE VALLEY FIREHOUSE
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 80/ 5
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

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED DIRECTION	TIME HR:MN
1	*	1.	*	2.	10.	* 15: 7
2	*	1.	*	2.	9.	* 11: 55
3	*	1.	*	2.	11.	* 18: 42
4	*	1.	*	1.	9.	* 11: 43
5	*	1.	*	1.	9.	* 16: 27
6	*	1.	*	2.	10.	* 7: 44
7	*	1.	*	2.	13.	* 9: 47
8	*	1.	*	2.	10.	* 12: 4
9	*	1.	*	2.	11.	* 16: 19
10	*	1.	*	1.	12.	* 16: 3
11	*	0.	*	0.	5.	* 14: 16
12	*	1.	*	2.	8.	* 10: 48
13	*	0.	*	1.	7.	* 10: 4
14	*	0.	*	0.	0.	* 6: 59
15	*	1.	*	1.	7.	* 11: 24
16	*	1.	*	2.	9.	* 10: 15
17	*	1.	*	3.	9.	* 12: 37
18	*	1.	*	3.	10.	* 14: 36
19	*	1.	*	3.	9.	* 10: 52
20	*	1.	*	2.	9.	* 10: 29
21	*	1.	*	2.	10.	* 15: 18
22	*	1.	*	2.	11.	* 11: 39
23	*	1.	*	2.	9.	* 13: 20
24	*	1.	*	2.	11.	* 16: 0
25	*	1.	*	1.	9.	* 14: 6
26	*	1.	*	2.	10.	* 9: 55
27	*	0.	*	1.	6.	* 13: 56
28	*	0.	*	1.	8.	* 9: 29
29	*	0.	*	1.	9.	* 11: 56
30	*	1.	*	2.	9.	* 10: 34
31	*	1.	*	2.	10.	* 17: 14
MEAN	0.	1.	0.	2.		
STANDARD DEVIATION	*****	0.4	*****	0.6		

ENVIRONMENTAL SUMMARY REPORT

SITE: LAKE VALLEY FIREHOUSE
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 80/ 5
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

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	22	2	0	0	0	0	0	0	0
2	18	1	0	0	0	0	0	0	5
3	23	1	0	0	0	0	0	0	0
4	23	1	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	23	1	0	0	0	0	0	0	0
8	23	1	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	23	0	0	0	0	0	0	0	1
15	24	0	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	21	3	0	0	0	0	0	0	0
18	23	1	0	0	0	0	0	0	0
19	22	2	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	23	1	0	0	0	0	0	0	0
23	24	0	0	0	0	0	0	0	0
24	23	1	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	19	1	0	0	0	0	0	0	4
29	24	0	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	23.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TOTAL	715	18	0	0	0	0	0	0	11

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 80/ 5
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

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.	*	*:*	2469.	*
2	*	N.A.	N.A.	*	*:*	2455.	*
3	*	N.A.	N.A.	*	*:*	2442.	*
4	*	N.A.	N.A.	*	*:*	2426.	*
5	*	N.A.	N.A.	*	*:*	2410.	*
6	1763.	N.A.	N.A.	252.	11:51	2398.	74.
7	1781.	N.A.	N.A.	252.	11:52	2382.	75.
8	1002.	N.A.	N.A.	189.	9:25	2370.	42.
9	322.	N.A.	N.A.	157.	14:47	2358.	14.
10	1327.	N.A.	N.A.	293.	11:16	2343.	57.
11	1265.	N.A.	N.A.	296.	13: 2	2329.	54.
12	1664.	N.A.	N.A.	283.	12: 9	2318.	72.
13	904.	N.A.	N.A.	268.	13: 4	2304.	39.
14	1623.	N.A.	N.A.	255.	11:35	2291.	71.
15	1724.	N.A.	N.A.	239.	11:47	2280.	76.
16	1659.	N.A.	N.A.	252.	12:17	2269.	73.
17	1718.	N.A.	N.A.	242.	11:34	2257.	76.
18	1668.	N.A.	N.A.	249.	11:39	2245.	74.
19	1711.	N.A.	N.A.	236.	10:59	2235.	77.
20	1604.	N.A.	N.A.	242.	12:33	2223.	72.
21	1589.	N.A.	N.A.	239.	13:30	2212.	72.
22	1368.	N.A.	N.A.	255.	12:25	2203.	62.
23	1459.	N.A.	N.A.	290.	12:39	2192.	67.
24	1299.	N.A.	N.A.	286.	12:19	2184.	59.
25	1403.	N.A.	N.A.	261.	12: 3	2174.	65.
26	1665.	N.A.	N.A.	239.	11:59	2164.	77.
27	1679.	N.A.	N.A.	236.	12:20	2157.	78.
28	1619.	N.A.	N.A.	233.	11:43	2148.	75.
29	1633.	N.A.	N.A.	236.	12:28	2138.	76.
30	1657.	N.A.	N.A.	236.	11:37	2130.	78.
31	1624.	N.A.	N.A.	239.	12:32	2124.	76.
MEAN	1489.	N.A.	N.A.			2278.	
STANDARD DEVIATION	327.	N.A.	N.A.			106.	

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 80/ 5
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

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.	79.	60.	88.	14:19	50.	5:26	*
2	67.	72.	62.	84.	14:9	49.	5:32	*
3	62.	75.	57.	87.	14:44	49.	5:24	*
4	57.	68.	50.	79.	10:17	47.	4:47	*
5	67.	81.	61.	84.	14:52	52.	23:56	*
6	64.	73.	56.	83.	14:31	44.	5:16	*
7	69.	80.	59.	91.	15:14	51.	1:49	*
8	61.	67.	57.	72.	14:3	52.	5:15	*
9	54.	55.	52.	62.	16:26	46.	23:59	*
10	55.	63.	49.	70.	15:11	40.	4:58	*
11	58.	64.	53.	72.	14:54	46.	5:3	*
12	61.	68.	56.	75.	14:49	49.	5:29	*
13	60.	65.	56.	75.	14:30	52.	0:43	*
14	63.	73.	55.	81.	13:6	47.	5:11	*
15	64.	73.	56.	83.	15:56	48.	3:36	*
16	68.	78.	60.	88.	14:52	48.	4:55	*
17	74.	84.	65.	94.	15:23	52.	4:17	*
18	74.	86.	65.	97.	14:37	52.	4:11	*
19	76.	87.	67.	99.	14:21	51.	4:56	*
20	80.	92.	70.	103.	14:46	59.	5:5	*
21	71.	80.	64.	86.	13:40	57.	23:47	*
22	64.	73.	57.	83.	14:38	50.	4:14	*
23	58.	66.	51.	73.	12:44	44.	4:12	*
24	58.	66.	50.	73.	11:4	41.	3:58	*
25	59.	68.	52.	77.	13:18	40.	4:56	*
26	63.	72.	55.	79.	14:1	43.	5:13	*
27	62.	71.	54.	77.	13:56	48.	4:15	*
28	62.	71.	55.	76.	13:24	49.	4:57	*
29	66.	76.	58.	84.	14:20	46.	4:44	*
30	64.	73.	56.	77.	11:10	52.	4:4	*
31	67.	75.	60.	84.	14:34	51.	5:9	*
MEAN	64.	73.	57.					0.
STANDARD DEVIATION	6.3	7.9	5.2					*****

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 80/ 5
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

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	315.	4.	280.	3.	13.	276.	16:44
2	352.	4.	329.	4.	7.	313.	14:47
3	354.	5.	316.	4.	10.	358.	18:12
4	344.	2.	267.	2.	6.	344.	0:52
5	327.	9.	294.	9.	15.	313.	17:43
6	318.	4.	239.	4.	10.	1.	17:7
7	245.	7.	214.	8.	15.	208.	8:19
8	349.	9.	349.	10.	14.	359.	7:17
9	350.	9.	3.	11.	18.	357.	12:7
10	356.	3.	*	3.	9.	26.	17:3
11	356.	7.	0.	7.	12.	347.	23:31
12	358.	7.	5.	7.	13.	343.	0:14
13	342.	5.	336.	5.	9.	340.	21:17
14	336.	5.	*	5.	12.	329.	17:44
15	340.	4.	330.	4.	11.	319.	17:27
16	*	2.	*	2.	6.	*	11:35
17	204.	4.	194.	8.	13.	208.	8:22
18	349.	3.	*	3.	8.	358.	17:55
19	*	2.	*	3.	5.	*	10:21
20	262.	5.	231.	5.	8.	245.	17:3
21	346.	8.	349.	9.	14.	4.	14:12
22	301.	5.	305.	4.	13.	294.	16:3
23	258.	6.	266.	8.	15.	264.	18:0
24	276.	3.	276.	4.	14.	239.	13:23
25	274.	3.	268.	5.	14.	258.	15:20
26	336.	4.	336.	3.	10.	336.	17:51
27	344.	6.	345.	7.	13.	330.	17:56
28	343.	6.	344.	7.	14.	357.	14:23
29	319.	3.	278.	3.	8.	290.	18:20
30	348.	8.	350.	8.	14.	346.	14:44
31	319.	5.	268.	4.	11.	354.	0:5
MEAN	322.	5.	260.	5.			
STANDARD DEVIATION	39.6	2.0	104.5	2.6			

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 80/ 5
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

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	6	2	0	0	0	0	0	2
2	13	9	0	0	0	0	0	0	2
3	8	7	3	0	0	0	0	0	6
4	10	0	0	0	0	0	0	0	14
5	0	5	6	0	0	0	0	0	13
6	14	9	1	0	0	0	0	0	0
7	3	12	8	1	0	0	0	0	0
8	0	9	15	0	0	0	0	0	0
9	0	8	14	2	0	0	0	0	0
10	18	6	0	0	0	0	0	0	0
11	0	17	7	0	0	0	0	0	0
12	0	20	4	0	0	0	0	0	0
13	9	15	0	0	0	0	0	0	0
14	11	8	5	0	0	0	0	0	0
15	12	10	2	0	0	0	0	0	0
16	21	3	0	0	0	0	0	0	0
17	14	5	5	0	0	0	0	0	0
18	17	7	0	0	0	0	0	0	0
19	23	1	0	0	0	0	0	0	0
20	8	16	0	0	0	0	0	0	0
21	0	14	10	0	0	0	0	0	0
22	10	8	6	0	0	0	0	0	0
23	10	8	6	0	0	0	0	0	0
24	16	7	1	0	0	0	0	0	0
25	19	4	1	0	0	0	0	0	0
26	13	10	1	0	0	0	0	0	0
27	8	7	9	0	0	0	0	0	0
28	5	11	8	0	0	0	0	0	0
29	15	9	0	0	0	0	0	0	0
30	6	5	13	0	0	0	0	0	0
31	7	14	2	0	0	0	0	0	1
AVERAGE	9.8	8.7	4.2	0.1	0.0	0.0	0.0	0.0	1.2
TOTAL	304	270	129	3	0	0	0	0	38

ENVIRONMENTAL SUMMARY REPORT

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 80/ 5
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

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	15.	6.	26.	67.	6:24	0.	9:42
2	28.	14.	39.	92.	5:43	0.	9:59
3	44.	18.	54.	92.	6:28	0.	11:43
4	58.	23.	79.	98.	5: 8	0.	10:17
5	22.	0.	31.	64.	23:30	0.	14:47
6	31.	9.	49.	95.	5:54	0.	9:43
7	19.	0.	35.	77.	2: 0	0.	7: 9
8	34.	12.	53.	92.	5:15	0.	12:43
9	80.	85.	76.	100.	2:21	25.	18:18
10	38.	8.	64.	100.	5:30	0.	9:19
11	45.	17.	68.	100.	2:12	0.	12:32
12	43.	14.	67.	100.	5:18	0.	11:42
13	54.	35.	69.	87.	2:35	0.	14:46
14	41.	15.	63.	100.	5:33	0.	11:25
15	33.	11.	52.	98.	4:51	0.	10:22
16	28.	6.	47.	92.	3:51	0.	9:27
17	17.	2.	30.	70.	4:22	0.	7:29
18	24.	6.	39.	83.	4:54	0.	8:54
19	25.	6.	41.	94.	5:23	0.	9: 7
20	15.	2.	25.	67.	6:14	0.	7:50
21	19.	3.	32.	59.	5:19	0.	8:15
22	17.	3.	28.	70.	4:35	0.	5:30
23	10.	0.	19.	59.	23:58	0.	6:31
24	20.	1.	36.	78.	5:18	0.	7:36
25	23.	6.	37.	85.	5:39	0.	8:56
26	23.	6.	37.	81.	5:45	0.	8:47
27	27.	4.	46.	84.	5: 8	0.	8:57
28	33.	7.	54.	90.	5: 3	0.	9:13
29	28.	8.	44.	100.	5:32	0.	9:26
30	31.	4.	53.	76.	4:36	0.	8:30
31	31.	9.	49.	92.	5:46	0.	10:18
MEAN	31.	12.	46.				
STANDARD DEVIATION	15.	16.	16.				

ENVIRONMENTAL SUMMARY REPORT

SITE: MONTECITO PINES
SANTA ROSA, CALIFORNIA

REPORT PERIOD: 80/ 5
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	56.	62.	50.	69.	14: 8	44.	4: 5	70.
2	55.	60.	50.	70.	14:16	47.	23:30	68.
3	55.	61.	49.	71.	12:50	46.	4:50	69.
4	54.	59.	50.	73.	14: 0	46.	4:13	68.
5	57.	63.	51.	74.	12:40	45.	23:27	69.
6	58.	64.	52.	75.	13:25	39.	5: 3	68.
7	58.	66.	51.	76.	12:54	41.	5:32	69.
8	56.	61.	50.	72.	15:23	40.	4:59	69.
9	49.	51.	48.	59.	14:36	39.	23:50	66.
10	49.	54.	44.	65.	15: 7	35.	4: 6	67.
11	48.	54.	44.	64.	10:41	37.	4: 6	67.
12	54.	59.	49.	70.	12:38	43.	2:19	68.
13	55.	60.	51.	70.	16:14	44.	23:58	69.
14	56.	63.	50.	72.	16:15	40.	3:42	70.
15	56.	64.	49.	74.	15: 4	40.	3:38	69.
16	59.	67.	51.	78.	13:22	39.	4:56	69.
17	63.	72.	55.	83.	14:32	42.	5:23	69.
18	61.	70.	52.	81.	11:58	44.	4:51	72.
19	63.	70.	56.	89.	14:38	42.	4:56	77.
20	66.	76.	57.	87.	12:32	48.	4:59	70.
21	61.	67.	55.	81.	15:30	45.	4: 2	71.
22	55.	61.	49.	68.	12:50	40.	4:34	70.
23	52.	55.	49.	61.	14:53	44.	5:27	70.
24	52.	57.	47.	71.	15:20	41.	23:41	69.
25	53.	60.	47.	70.	12:45	35.	3:52	70.
26	55.	63.	47.	71.	14:26	38.	3:51	70.
27	53.	60.	47.	70.	12:34	38.	4:29	71.
28	52.	57.	48.	64.	16: 1	40.	3:39	72.
29	55.	60.	52.	71.	13:26	45.	23:55	71.
30	54.	59.	50.	68.	11:39	45.	0:11	70.
31	58.	63.	53.	75.	13:35	50.	22:29	71.
MEAN	56.	62.	50.					70.
STANDARD DEVIATION	4.2	5.5	3.2					2.0

ENVIRONMENTAL SUMMARY REPORT

SITE: ORTIZ & REILL
ESCONDIDO, CALIFORNIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 175

LATITUDE: 33.07 DEG NORTH
LONGITUDE: 117.10 DEG WEST

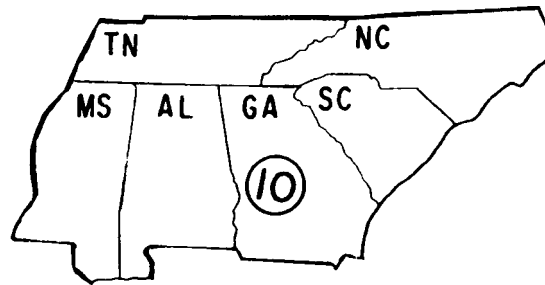
AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: PACIFIC
ALTITUDE: 13 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	903.	N.A.	N.A.	285.	8:58	2829.	32.
2	2159.	N.A.	N.A.	300.	10:33	2817.	77.
3	2046.	N.A.	N.A.	297.	10:20	2807.	73.
4	1682.	N.A.	N.A.	297.	10:26	2795.	60.
5	1079.	N.A.	N.A.	270.	12:34	2784.	39.
6	1651.	N.A.	N.A.	291.	10:12	2772.	60.
7	637.	N.A.	N.A.	173.	10:53	2763.	23.
8	714.	N.A.	N.A.	118.	11:25	2752.	26.
9	979.	N.A.	N.A.	315.	9:28	2741.	36.
10	663.	N.A.	N.A.	176.	11:43	2730.	24.
11	1493.	N.A.	N.A.	358.	11:11	2719.	55.
12	1176.	N.A.	N.A.	312.	9: 5	2711.	43.
13	616.	N.A.	N.A.	252.	9:46	2700.	23.
14	198.	N.A.	N.A.	55.	14: 2	2692.	7.
15	552.	N.A.	N.A.	118.	13:49	2682.	21.
16	1758.	N.A.	N.A.	288.	10:18	2672.	66.
17	1793.	N.A.	N.A.	300.	11:30	2662.	67.
18	1486.	N.A.	N.A.	279.	10:54	2653.	56.
19	1679.	N.A.	N.A.	273.	10:31	2643.	64.
20	393.	N.A.	N.A.	76.	10:21	2637.	15.
21	731.	N.A.	N.A.	206.	14: 5	2628.	28.
22	472.	N.A.	N.A.	148.	7:51	2619.	18.
23	1325.	N.A.	N.A.	330.	11: 7	2610.	51.
24	1788.	N.A.	N.A.	321.	11: 2	2602.	69.
25	2067.	N.A.	N.A.	297.	11:18	2594.	80.
26	1331.	N.A.	N.A.	300.	10: 1	2589.	51.
27	1013.	N.A.	N.A.	258.	13: 2	2581.	39.
28	1846.	N.A.	N.A.	327.	10: 2	2574.	72.
29	1864.	N.A.	N.A.	282.	11:27	2567.	73.
30	1551.	N.A.	N.A.	339.	10:39	2562.	61.
31	458.	N.A.	N.A.	115.	14:12	2556.	18.
MEAN	1229.	N.A.	N.A.			2679.	
STANDARD DEVIATION	576.	N.A.	N.A.			84.	

ZONE 10



ENVIRONMENTAL SUMMARY REPORT

SITE: ALABAMA POWER
MONTEVALLO, ALABAMA

REPORT PERIOD: 80/ 5
SITE NUMBER: 17

LATITUDE: 32.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 86.00 DEG WEST PYRANOMETER TILT: 50 DEG
TIME ZONE: CENTRAL
ALTITUDE: 620 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	TIME	EXTRATERRESTRIAL	TTL INS
	INSOLATION	INSOLATION	INSOLATION	INSOLATION		INSOLATION	EXT INS
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	HR:MN	BTU/FT2	PERCENT
1	719.	N.A.	N.A.	131.	12: 7	2612.	28.
2	1472.	N.A.	N.A.	325.	13: 23	2597.	57.
3	1246.	N.A.	N.A.	316.	14: 34	2585.	48.
4	1728.	N.A.	N.A.	310.	14: 21	2571.	67.
5	1588.	N.A.	N.A.	306.	13: 17	2557.	62.
6	2038.	N.A.	N.A.	300.	13: 32	2545.	80.
7	974.	N.A.	N.A.	281.	13: 26	2534.	38.
8	1531.	N.A.	N.A.	303.	14: 58	2520.	61.
9	2165.	N.A.	N.A.	310.	13: 27	2507.	86.
10	2090.	N.A.	N.A.	310.	13: 20	2496.	84.
11	1848.	N.A.	N.A.	294.	13: 20	2483.	74.
12	1484.	N.A.	N.A.	274.	13: 44	2470.	60.
13	702.	N.A.	N.A.	172.	13: 32	2460.	29.
14	468.	N.A.	N.A.	89.	9: 52	2448.	19.
15	1102.	N.A.	N.A.	239.	11: 42	2438.	45.
16	531.	N.A.	N.A.	96.	12: 48	2426.	22.
17	707.	N.A.	N.A.	220.	15: 44	2414.	29.
18	1368.	N.A.	N.A.	338.	13: 45	2406.	57.
19	689.	N.A.	N.A.	239.	14: 38	2394.	29.
20	1417.	N.A.	N.A.	335.	12: 28	2384.	59.
21	1673.	N.A.	N.A.	303.	12: 29	2373.	71.
22	665.	N.A.	N.A.	287.	16: 4	2365.	28.
23	1528.	N.A.	N.A.	316.	14: 3	2355.	65.
24	1860.	N.A.	N.A.	300.	13: 33	2348.	79.
25	1769.	N.A.	N.A.	290.	13: 44	2338.	76.
26	1838.	N.A.	N.A.	265.	13: 23	2329.	79.
27	1808.	N.A.	N.A.	271.	15: 4	2320.	78.
28	1622.	N.A.	N.A.	258.	14: 18	2312.	70.
29	1564.	N.A.	N.A.	268.	13: 54	2306.	68.
30	1740.	N.A.	N.A.	300.	13: 47	2298.	76.
31	1710.	N.A.	N.A.	294.	13: 52	2290.	75.
MEAN	1408.	N.A.	N.A.			2435.	
STANDARD DEVIATION	494.	N.A.	N.A.			98.	

ENVIRONMENTAL SUMMARY REPORT

SITE: ALABAMA POWER
MONTEVALLO, ALABAMA

REPORT PERIOD: 80/ 5
SITE NUMBER: 17

LATITUDE: 32.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 86.00 DEG WEST PYRANOMETER TILT: 50 DEG ALTITUDE: 620 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.	60.	72.	14:10	53.	4:29	68.
2	67.	71.	63.	82.	12:56	56.	3:26	68.
3	65.	68.	62.	79.	16:36	57.	23:59	70.
4	64.	69.	61.	83.	15:46	48.	7:0	71.
5	66.	72.	61.	84.	16:50	52.	4:29	70.
6	68.	73.	63.	87.	15:50	50.	6:46	70.
7	64.	68.	60.	84.	13:36	52.	6:24	70.
8	67.	70.	65.	78.	15:51	57.	23:57	70.
9	63.	66.	60.	77.	15:41	49.	23:55	70.
10	63.	68.	59.	80.	16:0	42.	6:51	72.
11	71.	74.	68.	88.	17:28	52.	7:18	72.
12	73.	77.	69.	86.	17:48	58.	3:57	71.
13	72.	74.	71.	79.	16:54	67.	23:50	71.
14	67.	68.	66.	72.	9:52	61.	23:58	71.
15	69.	72.	67.	81.	18:24	60.	2:1	70.
16	71.	72.	70.	76.	12:48	67.	2:45	70.
17	71.	71.	71.	79.	18:8	64.	11:17	71.
18	73.	76.	71.	88.	18:17	63.	4:37	72.
19	72.	73.	70.	77.	11:26	65.	23:30	71.
20	70.	71.	69.	83.	17:32	63.	7:51	71.
21	72.	77.	68.	90.	15:35	58.	6:42	71.
22	68.	68.	69.	75.	18:19	64.	7:53	72.
23	73.	75.	71.	86.	16:32	64.	23:46	71.
24	73.	77.	69.	89.	15:46	57.	6:48	73.
25	75.	80.	71.	89.	15:4	63.	6:42	73.
26	75.	80.	71.	91.	16:30	60.	6:54	73.
27	76.	81.	71.	95.	14:43	57.	6:16	73.
28	76.	81.	72.	91.	14:13	64.	6:18	73.
29	76.	81.	71.	92.	15:9	65.	6:16	73.
30	75.	80.	71.	89.	14:30	63.	6:35	73.
31	77.	82.	72.	95.	15:44	62.	6:40	75.
MEAN	70.	74.	67.					71.
STANDARD DEVIATION	4.4	5.1	4.4					1.5

ENVIRONMENTAL SUMMARY REPORT

SITE: BLAKEDALE PROFESSIONAL CENTER
GREENWOOD, SOUTH CAROLINA

REPORT PERIOD: 80/ 5
SITE NUMBER: 13

LATITUDE: 34.20 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 82.20 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: EASTERN
ALTITUDE: 496 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 INSOLATION TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1437.	N.A.	N.A.	298.	14: 8	2867.	50.
2	1321.	N.A.	N.A.	332.	13: 6	2855.	46.
3	1291.	N.A.	N.A.	315.	13:52	2844.	45.
4	1417.	N.A.	N.A.	282.	12:45	2832.	50.
5	1442.	N.A.	N.A.	295.	12:29	2824.	51.
6	1835.	N.A.	N.A.	278.	12:49	2813.	65.
7	1977.	N.A.	N.A.	298.	13:10	2802.	71.
8	1021.	N.A.	N.A.	298.	14:29	2793.	37.
9	2007.	N.A.	N.A.	295.	13:22	2783.	72.
10	2016.	N.A.	N.A.	288.	13:25	2772.	73.
11	1631.	N.A.	N.A.	308.	12:46	2761.	59.
12	1581.	N.A.	N.A.	288.	12:41	2751.	57.
13	907.	N.A.	N.A.	151.	14:53	2744.	33.
14	630.	N.A.	N.A.	137.	13:22	2734.	23.
15	1613.	N.A.	N.A.	282.	13: 7	2724.	59.
16	1183.	N.A.	N.A.	285.	12:27	2714.	44.
17	223.	N.A.	N.A.	70.	10:46	2705.	8.
18	1707.	N.A.	N.A.	305.	12:59	2695.	63.
19	525.	N.A.	N.A.	225.	12:48	2689.	20.
20	948.	N.A.	N.A.	305.	14:31	2680.	35.
21	1835.	N.A.	N.A.	282.	12:52	2671.	69.
22	491.	N.A.	N.A.	131.	11:37	2666.	18.
23	608.	N.A.	N.A.	278.	13: 3	2657.	23.
24	1399.	N.A.	N.A.	255.	12:28	2649.	53.
25	1387.	N.A.	N.A.	282.	13:39	2641.	53.
26	1645.	N.A.	N.A.	261.	13:17	2634.	62.
27	1708.	N.A.	N.A.	245.	12:34	2627.	65.
28	1678.	N.A.	N.A.	265.	13:32	2619.	64.
29	1411.	N.A.	N.A.	245.	13:39	2613.	54.
30	1653.	N.A.	N.A.	255.	12:57	2609.	63.
31	1521.	N.A.	N.A.	278.	13:18	2602.	58.
MEAN	1356.	N.A.	N.A.			2722.	
STANDARD DEVIATION	476.	N.A.	N.A.			81.	

ENVIRONMENTAL SUMMARY REPORT

SITE: BLAKEDALE PROFESSIONAL CENTER
GREENWOOD, SOUTH CAROLINA

REPORT PERIOD: 80/ 5
SITE NUMBER: 13

LATITUDE: 34.20 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 82.20 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 496 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	64.	71.	57.	85.	15: 6	47.	5: 46	68.
2	67.	75.	60.	87.	15:14	50.	6:10	70.
3	69.	76.	63.	89.	14:24	54.	5: 57	70.
4	72.	80.	65.	91.	16:23	56.	5: 4	71.
5	71.	80.	63.	95.	14:15	58.	5: 49	72.
6	73.	81.	66.	98.	15:45	55.	5:53	71.
7	74.	84.	66.	100.	12:54	60.	5:47	72.
8	70.	75.	66.	87.	16:10	60.	23:57	73.
9	66.	72.	61.	87.	16: 0	55.	5:54	71.
10	66.	73.	60.	88.	16:21	48.	5:26	70.
11	72.	76.	68.	87.	16:30	57.	4:42	71.
12	80.	86.	75.	100.	14:28	66.	6: 6	74.
13	77.	81.	72.	92.	14: 5	69.	6:21	74.
14	72.	75.	70.	84.	13:22	66.	5:32	73.
15	74.	79.	70.	90.	13:49	63.	5:12	73.
16	73.	77.	70.	86.	14:15	63.	4:21	72.
17	68.	67.	68.	72.	22:42	63.	8:33	71.
18	78.	82.	74.	93.	15:39	68.	6:15	73.
19	73.	76.	70.	83.	14:30	67.	4:32	74.
20	72.	73.	70.	87.	16: 1	65.	23:59	72.
21	75.	83.	68.	95.	13:51	60.	4:57	72.
22	72.	76.	69.	83.	13:23	64.	5:39	73.
23	74.	78.	71.	86.	13:30	68.	23:51	73.
24	75.	79.	71.	87.	13:43	68.	1:11	74.
25	75.	80.	71.	90.	16:18	65.	5:48	74.
26	78.	85.	72.	96.	15:36	65.	2: 0	73.
27	76.	82.	70.	93.	15:56	62.	5:49	73.
28	78.	85.	72.	98.	15:59	62.	4:55	73.
29	79.	86.	74.	98.	15:10	67.	5:39	74.
30	79.	85.	74.	96.	16:46	66.	5: 2	75.
31	78.	84.	73.	94.	16:14	67.	5:23	76.
MEAN	73.	79.	68.					72.
STANDARD DEVIATION	4.2	4.9	4.6					1.6

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLOTTE MEDICAL CENTER
CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 80/ 5
SITE NUMBER: 7

LATITUDE: 35.22 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 80.84 DEG WEST PYRANOMETER TILT: 35 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
				INSOLATION VALUE BTU/HR/FT2	TIME HR:MN		
1	1622.	N.A.	N.A.	325.	12:19	3174.	51.
2	1442.	N.A.	N.A.	307.	13:17	3168.	46.
3	1739.	N.A.	N.A.	289.	12:19	3162.	55.
4	*	N.A.	N.A.	*	*:*	3156.	*
5	1903.	N.A.	N.A.	298.	12:22	3150.	60.
6	1901.	N.A.	N.A.	286.	11:58	3144.	60.
7	1519.	N.A.	N.A.	292.	13: 3	3138.	48.
8	729.	N.A.	N.A.	220.	13:31	3132.	23.
9	2072.	N.A.	N.A.	301.	11:45	3126.	66.
10	2165.	N.A.	N.A.	301.	12: 6	3120.	69.
11	1868.	N.A.	N.A.	304.	12:27	3114.	60.
12	1796.	N.A.	N.A.	313.	11:22	3108.	58.
13	1210.	N.A.	N.A.	319.	12:47	3102.	39.
14	1335.	N.A.	N.A.	304.	10:54	3096.	43.
15	1408.	N.A.	N.A.	271.	13:22	3091.	46.
16	1751.	N.A.	N.A.	286.	12:12	3085.	57.
17	659.	N.A.	N.A.	175.	9: 8	3080.	21.
18	1495.	N.A.	N.A.	316.	12:20	3074.	49.
19	1164.	N.A.	N.A.	256.	10:13	3069.	38.
20	314.	N.A.	N.A.	132.	12:49	3064.	10.
21	1923.	N.A.	N.A.	313.	13: 2	3058.	63.
22	1320.	N.A.	N.A.	268.	10:54	3053.	43.
23	719.	N.A.	N.A.	175.	13:22	3048.	24.
24	1152.	N.A.	N.A.	286.	13:28	3043.	38.
25	1525.	N.A.	N.A.	307.	11:36	3039.	50.
26	1910.	N.A.	N.A.	286.	12:19	3034.	63.
27	1942.	N.A.	N.A.	268.	12:35	3030.	64.
28	1922.	N.A.	N.A.	274.	12:28	3025.	64.
29	1814.	N.A.	N.A.	262.	13:17	3021.	60.
30	1681.	N.A.	N.A.	295.	12:24	3017.	56.
31	1697.	N.A.	N.A.	274.	12:28	3013.	56.
MEAN	1523.	N.A.	N.A.			3088.	
STANDARD DEVIATION	456.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLOTTE MEDICAL CENTER
 CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 80/ 5
 SITE NUMBER: 7

LATITUDE: 35.22 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
 LONGITUDE: 80.84 DEG WEST PYRANOMETER TILT: 35 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	62.	69.	56.	76.	12:24	45.	5: 1	70.
2	68.	75.	61.	86.	14:32	55.	0:24	69.
3	70.	77.	63.	89.	14:59	58.	1:12	78.
4	68.	76.	64.	89.	16:32	57.	2:11	80.
5	75.	85.	65.	98.	14:46	56.	5:47	71.
6	74.	81.	66.	93.	14:17	58.	5:29	71.
7	71.	79.	64.	91.	13:35	60.	5:46	73.
8	62.	65.	59.	71.	8:59	53.	23:56	73.
9	60.	65.	55.	77.	14:47	50.	5:43	73.
10	64.	71.	57.	82.	16:38	47.	5:15	81.
11	70.	75.	65.	86.	15:34	55.	5:10	81.
12	77.	83.	72.	92.	15:43	63.	5: 3	73.
13	77.	81.	73.	90.	12:53	68.	6: 2	72.
14	73.	80.	67.	94.	12: 8	65.	16:55	71.
15	67.	70.	65.	81.	17: 5	60.	5:59	71.
16	69.	73.	66.	84.	14: 8	60.	5:10	74.
17	66.	69.	63.	77.	13:35	59.	6:39	78.
18	75.	78.	71.	90.	16: 9	64.	5:19	81.
19	75.	80.	71.	87.	10:45	66.	5:14	74.
20	67.	67.	67.	72.	17:50	62.	23:37	74.
21	74.	81.	66.	90.	14:43	58.	5:34	73.
22	73.	79.	68.	88.	11: 5	62.	4:14	73.
23	74.	78.	70.	85.	16: 0	65.	21:31	76.
24	73.	77.	68.	88.	14:48	65.	3:20	82.
25	73.	77.	68.	87.	13:12	64.	2:27	85.
26	72.	77.	68.	85.	15:36	61.	23:52	76.
27	72.	80.	64.	91.	15:35	56.	4:19	76.
28	77.	85.	69.	95.	12:50	59.	4:23	76.
29	79.	85.	72.	94.	13:39	65.	5:33	76.
30	78.	83.	72.	91.	15:15	66.	5:23	75.
31	77.	82.	72.	92.	15:45	64.	5: 5	79.
MEAN	71.	77.	66.					75.
STANDARD DEVIATION	5.0	5.8	4.8					4.1

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLOTTE MEDICAL CENTER
 CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 80/ 5
 SITE NUMBER: 7

LATITUDE: 35.22 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
 LONGITUDE: 80.84 DEG WEST PYRANOMETER TILT: 35 DEG ALTITUDE: 700 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	158.	3.	161.	5.	21.	205.	13:28
2	*	1.	*	2.	8.	*	11:20
3	*	1.	*	2.	11.	*	9:34
4	*	1.	*	1.	8.	*	16:0
5	*	2.	*	1.	11.	*	16:6
6	75.	2.	111.	3.	12.	346.	16:36
7	73.	3.	95.	3.	33.	123.	15:49
8	211.	4.	208.	6.	18.	207.	11:28
9	202.	4.	197.	4.	13.	215.	9:27
10	351.	4.	354.	5.	15.	349.	11:50
11	21.	7.	35.	9.	22.	44.	16:42
12	22.	6.	31.	7.	21.	82.	13:41
13	28.	6.	31.	7.	25.	23.	12:5
14	*	2.	*	3.	16.	*	15:10
15	220.	5.	221.	6.	23.	214.	7:57
16	276.	4.	274.	4.	15.	260.	10:25
17	307.	7.	299.	7.	24.	299.	19:6
18	28.	2.	47.	2.	19.	335.	0:36
19	15.	3.	17.	4.	14.	26.	11:6
20	202.	3.	221.	4.	17.	182.	17:18
21	*	1.	*	2.	11.	*	12:30
22	306.	2.	308.	3.	14.	311.	10:1
23	340.	3.	349.	3.	12.	317.	0:2
24	*	1.	*	2.	11.	*	14:27
25	162.	4.	160.	4.	19.	166.	17:39
26	213.	5.	216.	7.	20.	200.	10:43
27	*	1.	*	2.	13.	*	9:18
28	*	1.	*	2.	11.	*	14:36
29	19.	4.	19.	4.	14.	15.	15:4
30	9.	4.	19.	5.	15.	35.	16:22
31	17.	4.	26.	6.	18.	12.	15:2
MEAN	148.	3.	155.	4.			
STANDARD DEVIATION	120.9	1.7	117.2	2.0			

ENVIRONMENTAL SUMMARY REPORT

SITE: CHARLOTTE MEDICAL CENTER
 CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 80/ 5
 SITE NUMBER: 7

LATITUDE: 35.22 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
 LONGITUDE: 80.84 DEG WEST PYRANOMETER TILT: 35 DEG ALTITUDE: 700 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	24	0	0	0	0	0	0	0	0
3	21	3	0	0	0	0	0	0	0
4	18	0	0	0	0	0	0	0	6
5	21	3	0	0	0	0	0	0	0
6	20	4	0	0	0	0	0	0	0
7	16	8	0	0	0	0	0	0	0
8	15	5	4	0	0	0	0	0	0
9	14	9	1	0	0	0	0	0	0
10	9	15	0	0	0	0	0	0	0
11	8	9	6	1	0	0	0	0	0
12	5	15	4	0	0	0	0	0	0
13	7	10	7	0	0	0	0	0	0
14	20	3	1	0	0	0	0	0	0
15	12	9	3	0	0	0	0	0	0
16	14	10	0	0	0	0	0	0	0
17	4	8	11	1	0	0	0	0	0
18	21	3	0	0	0	0	0	0	0
19	15	8	1	0	0	0	0	0	0
20	17	7	0	0	0	0	0	0	0
21	23	1	0	0	0	0	0	0	0
22	16	7	1	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	13	10	1	0	0	0	0	0	0
26	10	10	4	0	0	0	0	0	0
27	22	2	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	16	7	1	0	0	0	0	0	0
30	13	11	0	0	0	0	0	0	0
31	10	12	1	0	0	0	0	0	1
AVERAGE	15.5	6.7	1.5	0.1	0.0	0.0	0.0	0.0	0.2
TOTAL	481	208	46	2	0	0	0	0	7

ENVIRONMENTAL SUMMARY REPORT

SITE: CHESTER WEST
HUNTSVILLE, ALABAMA

REPORT PERIOD: 80/ 5
SITE NUMBER: 78

LATITUDE: 34.40 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 86.60 DEG WEST PYRANOMETER TILT: 49 DEG TIME ZONE: CENTRAL
ALTITUDE: 600 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	1615.	N.A.	N.A.	297.	12:16	2737.	59.
2	1331.	N.A.	N.A.	276.	11:31	2726.	49.
3	1243.	N.A.	N.A.	276.	11:31	2713.	46.
4	1600.	N.A.	N.A.	270.	12: 4	2700.	59.
5	1690.	N.A.	N.A.	267.	12:20	2687.	63.
6	1769.	N.A.	N.A.	261.	11:29	2677.	66.
7	1383.	N.A.	N.A.	273.	11:22	2664.	52.
8	1833.	N.A.	N.A.	288.	12: 5	2652.	69.
9	1934.	N.A.	N.A.	276.	11:40	2640.	73.
10	1841.	N.A.	N.A.	267.	11:20	2630.	70.
11	809.	N.A.	N.A.	180.	9:28	2618.	31.
12	1242.	N.A.	N.A.	249.	10:52	2609.	48.
13	1087.	N.A.	N.A.	243.	12:28	2598.	42.
14	796.	N.A.	N.A.	279.	11:43	2587.	31.
15	1455.	N.A.	N.A.	279.	13: 3	2575.	57.
16	323.	N.A.	N.A.	111.	12:43	2567.	13.
17	677.	N.A.	N.A.	276.	12:54	2557.	26.
18	1519.	N.A.	N.A.	279.	12: 6	2546.	60.
19	459.	N.A.	N.A.	198.	9:47	2536.	18.
20	1100.	N.A.	N.A.	297.	10:34	2528.	43.
21	1521.	N.A.	N.A.	270.	12:15	2519.	60.
22	204.	N.A.	N.A.	39.	9:49	2509.	8.
23	1269.	N.A.	N.A.	252.	12:37	2503.	51.
24	1172.	N.A.	N.A.	219.	12:21	2494.	47.
25	1416.	N.A.	N.A.	249.	11:22	2485.	57.
26	1657.	N.A.	N.A.	243.	11:37	2476.	67.
27	1707.	N.A.	N.A.	249.	11:37	2468.	69.
28	1525.	N.A.	N.A.	243.	11:46	2463.	62.
29	1069.	N.A.	N.A.	237.	11:31	2455.	44.
30	1320.	N.A.	N.A.	237.	12:57	2448.	54.
31	1290.	N.A.	N.A.	252.	10:57	2441.	53.
MEAN	1286.	N.A.	N.A.			2574.	
STANDARD DEVIATION	445.	N.A.	N.A.			91.	

ENVIRONMENTAL SUMMARY REPORT

SITE: CHESTER WEST
HUNTSVILLE, ALABAMA

REPORT PERIOD: 80/ 5
SITE NUMBER: 78

LATITUDE: 34.40 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 86.60 DEG WEST PYRANOMETER TILT: 49 DEG TIME ZONE: CENTRAL
ALTITUDE: 600 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.	69.	53.	78.	13:52	44.	4:43	*
2	62.	70.	55.	79.	14:00	48.	5:23	*
3	62.	70.	55.	79.	13:29	49.	2:59	*
4	64.	74.	55.	84.	15:37	49.	2:59	*
5	67.	78.	58.	84.	14:49	51.	4:46	*
6	69.	78.	60.	85.	15:08	51.	5:00	*
7	68.	77.	60.	86.	12:05	55.	4:47	*
8	62.	66.	59.	73.	14:29	53.	5:47	*
9	58.	66.	51.	72.	15:47	44.	23:57	*
10	65.	73.	59.	80.	15:52	41.	2:37	*
11	71.	75.	67.	83.	14:36	64.	23:35	*
12	75.	79.	72.	85.	14:26	68.	0:02	*
13	74.	78.	71.	82.	13:42	67.	22:18	*
14	68.	70.	66.	78.	13:09	58.	23:59	*
15	69.	75.	63.	87.	13:03	55.	4:52	*
16	67.	67.	67.	72.	0:00	64.	21:09	*
17	69.	72.	66.	81.	16:17	64.	0:05	*
18	74.	81.	67.	89.	12:33	60.	5:05	*
19	68.	73.	64.	84.	11:50	62.	3:18	*
20	67.	73.	62.	80.	15:43	58.	23:32	*
21	70.	77.	63.	85.	13:40	55.	3:53	*
22	66.	64.	67.	71.	0:35	62.	11:09	*
23	71.	76.	66.	82.	13:35	60.	1:46	*
24	70.	76.	64.	83.	15:38	60.	4:53	*
25	73.	79.	67.	83.	11:43	63.	0:58	*
26	74.	82.	67.	88.	13:56	60.	23:59	*
27	72.	81.	63.	90.	13:19	54.	4:47	*
28	79.	87.	72.	93.	15:08	63.	0:07	*
29	74.	80.	69.	91.	12:08	66.	22:11	*
30	76.	82.	72.	86.	13:34	66.	4:03	*
31	77.	84.	71.	90.	13:21	65.	5:05	*
MEAN	69.	75.	64.					
STANDARD DEVIATION	5.1	5.7	5.9					

ENVIRONMENTAL SUMMARY REPORT

SITE: PHILLIPS - KAURIC
ST. MATTHEWS, SOUTH CAROLINA

REPORT PERIOD: 80/ 5
SITE NUMBER: 74

LATITUDE: 33.57 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 81.00 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 213 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	2228.	N.A.	N.A.	354.	13:18	3245.	69.
2	1752.	N.A.	N.A.	366.	12:57	3241.	54.
3	*	N.A.	N.A.	*	*:*	3237.	*
4	*	N.A.	N.A.	*	*:*	3232.	*
5	1662.	N.A.	N.A.	326.	13:00	3228.	52.
6	2060.	N.A.	N.A.	311.	12:39	3224.	64.
7	2090.	N.A.	N.A.	320.	12:14	3219.	65.
8	1328.	N.A.	N.A.	336.	12:39	3215.	41.
9	1796.	N.A.	N.A.	348.	12:07	3210.	56.
10	2495.	N.A.	N.A.	333.	12:01	3206.	78.
11	1907.	N.A.	N.A.	336.	12:59	3202.	60.
12	1997.	N.A.	N.A.	336.	11:41	3197.	62.
13	1878.	N.A.	N.A.	329.	12:23	3193.	59.
14	1833.	N.A.	N.A.	320.	12:40	3189.	57.
15	1664.	N.A.	N.A.	326.	11:32	3182.	52.
16	2227.	N.A.	N.A.	314.	12:16	3177.	70.
17	546.	N.A.	N.A.	160.	9:55	3173.	17.
18	2114.	N.A.	N.A.	351.	11:10	3169.	67.
19	957.	N.A.	N.A.	326.	11:49	3165.	30.
20	*	N.A.	N.A.	*	*:*	3161.	*
21	*	N.A.	N.A.	*	*:*	3157.	*
22	*	N.A.	N.A.	*	*:*	3153.	*
23	*	N.A.	N.A.	*	*:*	3149.	*
24	*	N.A.	N.A.	*	*:*	3142.	*
25	*	N.A.	N.A.	*	*:*	3139.	*
26	*	N.A.	N.A.	*	*:*	3135.	*
27	*	N.A.	N.A.	*	*:*	3132.	*
28	*	N.A.	N.A.	*	*:*	3128.	*
29	*	N.A.	N.A.	*	*:*	3125.	*
30	*	N.A.	N.A.	*	*:*	3122.	*
31	*	N.A.	N.A.	*	*:*	3118.	*
MEAN	1796.	N.A.	N.A.			3180.	
STANDARD DEVIATION	481.	N.A.	N.A.			40.	

ENVIRONMENTAL SUMMARY REPORT

SITE: PHILLIPS - KAURIC
ST. MATTHEWS, SOUTH CAROLINA

REPORT PERIOD: 80/ 5
SITE NUMBER: 74

LATITUDE: 33.57 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 81.00 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 213 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.	65.	52.	73.	16:51	42.	5:18	71.
2	64.	71.	57.	84.	14:17	46.	5:24	82.
3	59.	58.	59.	63.	7:30	55.	6:10	*
4	75.	84.	68.	91.	14:52	63.	23:56	94.
5	69.	75.	64.	86.	13:21	60.	2:52	90.
6	71.	76.	66.	85.	15: 3	57.	4:44	93.
7	74.	79.	68.	88.	14:32	60.	5:23	83.
8	66.	69.	63.	78.	13:43	58.	23:35	89.
9	59.	62.	56.	73.	17:37	47.	23:55	*
10	63.	71.	54.	87.	17:26	41.	5:26	*
11	70.	75.	65.	85.	17:21	56.	3:18	85.
12	76.	81.	70.	93.	17:17	63.	5:22	96.
13	76.	81.	71.	92.	13:28	65.	5:22	99.
14	75.	80.	71.	88.	14:48	66.	23:58	*
15	72.	77.	67.	85.	14:49	62.	23:22	*
16	70.	75.	65.	87.	14:29	60.	5:30	*
17	66.	68.	65.	73.	11:58	61.	5:50	*
18	76.	80.	72.	89.	17:20	67.	23:39	*
19	71.	75.	67.	89.	12:11	65.	4:48	*
20	*	*	*	*	*:*	*	*:*	*
21	*	*	*	*	*:*	*	*:*	*
22	*	*	*	*	*:*	*	*:*	*
23	*	*	*	*	*:*	*	*:*	*
24	*	*	*	*	*:*	*	*:*	*
25	*	*	*	*	*:*	*	*:*	*
26	*	*	*	*	*:*	*	*:*	*
27	*	*	*	*	*:*	*	*:*	*
28	*	*	*	*	*:*	*	*:*	*
29	*	*	*	*	*:*	*	*:*	*
30	*	*	*	*	*:*	*	*:*	*
31	*	*	*	*	*:*	*	*:*	*
MEAN	69.	74.	64.					88.
STANDARD DEVIATION	6.0	6.9	6.1					8.3

ENVIRONMENTAL SUMMARY REPORT

SITE: RHRU CLEMSON
CLEMSON, SOUTH CAROLINA

REPORT PERIOD: 80/ 5
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		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	59.	67.	52.	77.	16:10	41.	6: 2	82.
2	63.	72.	55.	81.	12:16	45.	5:57	80.
3	64.	72.	57.	81.	14: 6	46.	5:50	80.
4	67.	76.	60.	86.	16:42	48.	6: 6	84.
5	67.	76.	60.	84.	14:29	52.	4:53	82.
6	69.	76.	62.	87.	15:27	49.	5:40	79.
7	66.	74.	60.	84.	12:36	57.	5:51	79.
8	65.	70.	60.	80.	16:54	56.	23:58	80.
9	60.	66.	55.	76.	15:37	47.	5:45	79.
10	59.	67.	53.	77.	15:38	40.	5:51	78.
11	66.	74.	60.	83.	16:42	47.	3:32	81.
12	74.	80.	68.	90.	16: 4	57.	4:30	87.
13	71.	74.	68.	79.	14:54	65.	4:41	84.
14	70.	77.	65.	82.	11:52	61.	23:31	83.
15	69.	75.	64.	84.	15:36	57.	3:47	83.
16	67.	70.	65.	77.	14:36	61.	3:56	80.
17	59.	56.	61.	66.	1: 7	54.	14:37	76.
18	71.	76.	67.	85.	14:58	59.	4:35	80.
19	66.	69.	63.	75.	14:11	59.	5: 7	82.
20	66.	67.	66.	80.	18:13	58.	23:35	77.
21	67.	75.	62.	82.	14:36	53.	5:48	79.
22	65.	69.	62.	74.	11:53	56.	5:29	77.
23	68.	73.	65.	82.	12:33	62.	19:52	80.
24	70.	74.	67.	80.	14:54	62.	0:14	83.
25	71.	76.	67.	87.	15:10	61.	23:56	83.
26	73.	83.	66.	89.	16:12	58.	3:24	81.
27	70.	77.	65.	87.	15:29	56.	4:54	82.
28	72.	79.	67.	86.	15:43	58.	4:26	85.
29	73.	80.	67.	88.	14: 5	62.	5:12	86.
30	73.	79.	67.	86.	15:47	61.	4: 8	85.
31	73.	79.	68.	89.	14:53	60.	5:54	85.
MEAN	68.	74.	63.					81.
STANDARD DEVIATION	4.4	5.5	4.6					2.7

ENVIRONMENTAL SUMMARY REPORT

SITE: RHRU CLEMSON
CLEMSON, SOUTH CAROLINA

REPORT PERIOD: 80/ 5
SITE NUMBER: 216

LATITUDE: 34.54 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 83.13 DEG WEST PYRANOMETER TILT: 60 DEG

TIME ZONE: EASTERN
ALTITUDE: 937 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	73.	57.	87.	100.	0:58	37.	16:31
2	69.	51.	85.	100.	0:5	34.	16:27
3	76.	57.	92.	100.	0:56	39.	14:6
4	71.	54.	85.	100.	0:3	32.	17:4
5	74.	57.	88.	100.	0:10	38.	13:20
6	65.	53.	75.	100.	0:10	32.	15:22
7	83.	70.	94.	100.	5:46	46.	12:52
8	89.	80.	96.	100.	0:0	59.	16:11
9	70.	53.	84.	100.	0:3	40.	16:9
10	73.	61.	83.	100.	0:47	42.	16:58
11	82.	70.	92.	100.	0:20	50.	16:20
12	73.	61.	83.	100.	0:4	32.	16:36
13	85.	79.	90.	100.	1:13	63.	14:54
14	90.	81.	98.	100.	0:29	66.	11:14
15	82.	69.	93.	100.	0:3	57.	15:42
16	81.	76.	86.	93.	0:38	65.	14:57
17	97.	100.	95.	100.	4:56	81.	0:35
18	88.	81.	92.	100.	0:3	61.	16:19
19	100.	100.	100.	100.	0:3	96.	14:11
20	95.	95.	96.	100.	0:3	77.	18:56
21	83.	68.	94.	100.	0:1	48.	15:35
22	97.	92.	100.	100.	0:4	81.	11:53
23	97.	92.	100.	100.	0:1	77.	12:33
24	89.	82.	94.	100.	0:4	65.	15:5
25	82.	74.	89.	100.	0:4	53.	15:10
26	83.	69.	94.	100.	0:1	55.	16:44
27	76.	55.	92.	100.	0:17	41.	15:29
28	86.	75.	95.	100.	0:4	58.	15:48
29	89.	78.	99.	100.	0:2	62.	13:44
30	84.	73.	93.	100.	0:8	54.	14:0
31	88.	78.	95.	100.	0:2	61.	14:53
MEAN	83.	72.	92.				
STANDARD DEVIATION	9.	14.	6.				

ENVIRONMENTAL SUMMARY REPORT

SITE: TOWNS ELEMENTARY SCHOOL
ATLANTA, GEORGIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 1

LATITUDE: 33.65 DEG NORTH AZIMUTH: 2 DEG TIME ZONE: EASTERN
LONGITUDE: 84.42 DEG WEST PYRANOMETER TILT: 45 DEG 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	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2076.	N.A.	N.A.	341.	13:24	2849.	73.
2	2378.	N.A.	N.A.	321.	12:26	2838.	84.
3	1289.	N.A.	N.A.	331.	14: 4	2826.	46.
4	1912.	N.A.	N.A.	312.	12:29	2817.	68.
5	1858.	N.A.	N.A.	308.	12:49	2805.	66.
6	2202.	N.A.	N.A.	318.	12:44	2794.	79.
7	*	N.A.	N.A.	*	*:*	2783.	*
8	1254.	N.A.	N.A.	325.	13:18	2772.	45.
9	2154.	N.A.	N.A.	312.	12: 7	2763.	78.
10	2132.	N.A.	N.A.	325.	11:37	2753.	77.
11	2120.	N.A.	N.A.	312.	12:35	2742.	77.
12	1812.	N.A.	N.A.	312.	12:51	2734.	66.
13	683.	N.A.	N.A.	231.	12: 2	2724.	25.
14	386.	N.A.	N.A.	94.	12:20	2714.	14.
15	1382.	N.A.	N.A.	318.	12:38	2704.	51.
16	667.	N.A.	N.A.	149.	12: 0	2694.	25.
17	*	N.A.	N.A.	*	*:*	2687.	*
18	*	N.A.	N.A.	*	*:*	2677.	*
19	541.	N.A.	N.A.	211.	10:18	2668.	20.
20	1023.	N.A.	N.A.	328.	13:41	2659.	38.
21	1801.	N.A.	N.A.	308.	12:21	2650.	68.
22	423.	N.A.	N.A.	101.	12:19	2642.	16.
23	*	N.A.	N.A.	*	*:*	2636.	*
24	1625.	N.A.	N.A.	282.	12:38	2628.	62.
25	1682.	N.A.	N.A.	308.	11:39	2620.	64.
26	1935.	N.A.	N.A.	312.	12:22	2612.	74.
27	1578.	N.A.	N.A.	302.	12:48	2607.	61.
28	1281.	N.A.	N.A.	289.	13:13	2600.	49.
29	1766.	N.A.	N.A.	325.	12:51	2593.	68.
30	1927.	N.A.	N.A.	341.	12:43	2584.	75.
31	1668.	N.A.	N.A.	302.	11:43	2580.	65.
MEAN	1539.	N.A.	N.A.			2702.	
STANDARD DEVIATION	584.	N.A.	N.A.			83.	

ENVIRONMENTAL SUMMARY REPORT

SITE: TOWNS ELEMENTARY SCHOOL
ATLANTA, GEORGIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 1

LATITUDE: 33.65 DEG NORTH AZIMUTH: 2 DEG
LONGITUDE: 84.42 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: EASTERN
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	61.	72.	52.	83.	13:35	43.	5: 3	N.A.
2	62.	74.	50.	87.	14:34	43.	5:46	N.A.
3	66.	71.	61.	85.	14: 4	54.	0: 1	N.A.
4	70.	79.	62.	93.	12:24	50.	5:58	N.A.
5	71.	82.	60.	95.	14: 9	52.	5:28	N.A.
6	69.	79.	58.	91.	13:53	50.	4:54	N.A.
7	70.	81.	63.	93.	12:55	52.	5: 0	N.A.
8	66.	72.	62.	83.	14:32	54.	22:10	N.A.
9	64.	75.	56.	85.	15: 3	48.	23:52	N.A.
10	63.	72.	55.	81.	15:21	43.	5:23	N.A.
11	71.	80.	63.	92.	14:38	48.	5:29	N.A.
12	72.	79.	65.	92.	13:45	55.	5:39	N.A.
13	71.	75.	68.	85.	12: 2	63.	23:38	N.A.
14	66.	69.	64.	76.	9:24	62.	2:28	N.A.
15	70.	74.	67.	85.	15:17	60.	5:26	N.A.
16	69.	70.	68.	76.	13:57	66.	9: 9	N.A.
17	67.	66.	67.	71.	15:46	63.	5:48	N.A.
18	68.	68.	69.	82.	17:52	11.	6:10	N.A.
19	69.	73.	66.	83.	13: 9	64.	1:25	N.A.
20	67.	69.	65.	76.	15:32	62.	6: 8	N.A.
21	73.	82.	65.	92.	15: 6	57.	5:41	N.A.
22	66.	67.	63.	72.	15:44	62.	2:11	N.A.
23	66.	68.	65.	70.	17: 3	63.	22:49	N.A.
24	72.	77.	66.	85.	14:35	62.	23:39	N.A.
25	73.	81.	65.	88.	13: 4	60.	3:23	N.A.
26	76.	87.	67.	98.	14:19	59.	5:36	N.A.
27	74.	81.	68.	90.	15:48	60.	3:12	N.A.
28	73.	81.	65.	94.	13:35	60.	4:47	N.A.
29	75.	85.	67.	96.	11:57	60.	5:12	N.A.
30	75.	84.	68.	92.	13:52	60.	5:31	N.A.
31	76.	85.	69.	95.	14:12	61.	5:35	N.A.
MEAN	69.	76.	63.					N.A.
STANDARD DEVIATION	4.1	6.1	4.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: TOWNS ELEMENTARY SCHOOL
ATLANTA, GEORGIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 1

LATITUDE: 33.65 DEG NORTH AZIMUTH: 2 DEG TIME ZONE: EASTERN
LONGITUDE: 84.42 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 1000 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM WIND SPEED DIRECTION	TIME HR:MN
1	*	2.	*	3.	9.	* 11:43
2	*	1.	*	3.	6.	* 13:52
3	*	0.	*	0.	2.	* 14:25
4	*	0.	*	1.	4.	* 15: 4
5	*	1.	*	1.	7.	* 18:41
6	338.	2.	337.	4.	9.	350. 16: 2
7	*	1.	*	2.	5.	* 19:10
8	*	2.	*	3.	7.	* 13:34
9	*	1.	*	1.	4.	* 17:44
10	*	1.	*	2.	6.	* 10:59
11	*	0.	*	1.	4.	* 12:19
12	*	0.	*	1.	3.	* 10:54
13	*	0.	*	1.	5.	* 12: 2
14	*	0.	*	0.	3.	* 12:42
15	*	0.	*	1.	4.	* 23: 6
16	277.	2.	275.	3.	5.	271. 13:41
17	*	1.	*	2.	5.	* 14:31
18	*	0.	*	0.	0.	* 1:48
19	*	0.	*	1.	11.	* 13:19
20	*	1.	*	3.	8.	* 15:54
21	*	0.	*	1.	5.	* 16:56
22	*	1.	*	2.	5.	* 10:37
23	*	0.	*	1.	3.	* 16:52
24	*	2.	*	4.	8.	* 10:24
25	279.	2.	278.	4.	9.	300. 15: 1
26	*	1.	*	2.	7.	* 15:44
27	*	1.	*	1.	3.	* 11:34
28	*	0.	*	0.	3.	* 16:13
29	*	0.	*	1.	5.	* 14:32
30	*	0.	*	1.	4.	* 13: 9
31	*	0.	*	1.	3.	* 12:25
MEAN	298.	1.	297.	2.		
STANDARD DEVIATION	34.6	0.7	35.0	1.2		

ENVIRONMENTAL SUMMARY REPORT

SITE: TOWNS ELEMENTARY SCHOOL
ATLANTA, GEORGIA

REPORT PERIOD: 80/ 5
SITE NUMBER: 1

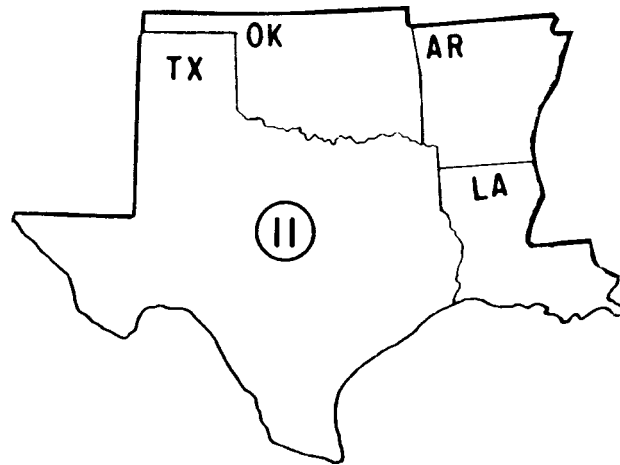
LATITUDE: 33.65 DEG NORTH AZIMUTH: 2 DEG
LONGITUDE: 84.42 DEG WEST PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 1000 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	71.	53.	87.	100.	0: 4	36.	15:11
2	75.	52.	97.	100.	0: 0	30.	15: 1
3	78.	67.	89.	100.	0: 1	41.	17:42
4	67.	50.	83.	100.	0: 1	29.	16:40
5	67.	45.	88.	100.	2:21	29.	15:13
6	69.	52.	86.	100.	0: 1	33.	15:51
7	72.	50.	86.	100.	0:28	35.	13:11
8	78.	76.	79.	100.	0: 3	42.	16:23
9	55.	45.	64.	97.	23:52	29.	16:56
10	64.	53.	76.	100.	0:13	33.	17:29
11	64.	52.	74.	100.	3:37	35.	16: 3
12	79.	63.	92.	100.	0:30	41.	16:12
13	86.	76.	95.	100.	0: 2	58.	12: 2
14	99.	97.	100.	100.	0: 4	87.	8:52
15	86.	76.	94.	100.	0: 1	58.	16:10
16	92.	90.	93.	100.	4:42	75.	14: 8
17	100.	100.	99.	100.	2: 4	96.	0:28
18	94.	100.	92.	100.	0:28	51.	17:52
19	98.	96.	100.	100.	0: 5	78.	11:11
20	94.	91.	97.	100.	0: 0	69.	15:27
21	75.	56.	92.	100.	0: 0	37.	15:38
22	99.	99.	98.	100.	0: 3	90.	6:43
23	100.	99.	100.	100.	15:48	96.	17:19
24	82.	69.	94.	100.	0: 4	54.	16:11
25	82.	70.	92.	100.	0: 0	55.	15:55
26	73.	62.	82.	100.	0: 0	44.	16:43
27	80.	65.	93.	100.	0:32	52.	16:25
28	85.	71.	97.	100.	0: 4	50.	13:45
29	80.	64.	93.	100.	0: 3	50.	14:59
30	75.	57.	91.	100.	0: 0	41.	15:59
31	78.	61.	93.	100.	0: 4	45.	14:55
MEAN	81.	70.	90.				
STANDARD DEVIATION	12.	18.	8.				

ZONE 11



ENVIRONMENTAL SUMMARY REPORT

SITE: COLLEGE HOUSES
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 70

LATITUDE: 30.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 97.00 DEG WEST PYRANOMETER TILT: 30 DEG TIME ZONE: CENTRAL
ALTITUDE: 625 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	1134.	N.A.	N.A.	321.	14:17	3168.	36.
2	1608.	N.A.	N.A.	324.	14:16	3162.	51.
3	1548.	N.A.	N.A.	329.	13:44	3156.	49.
4	1548.	N.A.	N.A.	329.	12:59	3150.	49.
5	1764.	N.A.	N.A.	326.	13:47	3143.	56.
6	1789.	N.A.	N.A.	332.	13:47	3137.	57.
7	1671.	N.A.	N.A.	350.	14: 5	3131.	53.
8	759.	N.A.	N.A.	245.	15:37	3125.	24.
9	2556.	N.A.	N.A.	306.	13:28	3119.	82.
10	494.	N.A.	N.A.	154.	12:51	3113.	16.
11	541.	N.A.	N.A.	184.	13:13	3107.	17.
12	814.	N.A.	N.A.	338.	14: 2	3101.	26.
13	317.	N.A.	N.A.	198.	12:17	3095.	10.
14	205.	N.A.	N.A.	64.	12:16	3089.	7.
15	463.	N.A.	N.A.	245.	14:56	3084.	15.
16	1405.	N.A.	N.A.	321.	14: 1	3078.	46.
17	2163.	N.A.	N.A.	309.	13:32	3072.	70.
18	1536.	N.A.	N.A.	321.	13:28	3067.	50.
19	1292.	N.A.	N.A.	318.	12:56	3061.	42.
20	2045.	N.A.	N.A.	297.	13:37	3056.	67.
21	1826.	N.A.	N.A.	329.	13:47	3051.	60.
22	1739.	N.A.	N.A.	338.	13:52	3045.	57.
23	1886.	N.A.	N.A.	332.	14:26	3040.	62.
24	1860.	N.A.	N.A.	294.	14: 3	3036.	61.
25	1203.	N.A.	N.A.	274.	15: 7	3031.	40.
26	1498.	N.A.	N.A.	306.	13:20	3026.	49.
27	1833.	N.A.	N.A.	315.	12:22	3021.	61.
28	1333.	N.A.	N.A.	324.	13:51	3017.	44.
29	1627.	N.A.	N.A.	324.	12:40	3013.	54.
30	1649.	N.A.	N.A.	321.	14:22	3009.	55.
31	1803.	N.A.	N.A.	332.	13:40	3005.	60.
MEAN	1416.	N.A.	N.A.			3081.	
STANDARD DEVIATION	575.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

SITE: COLLEGE HOUSES
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 70

LATITUDE: 30.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 97.00 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 625 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.	71.	67.	77.	17:49	59.	6:38	94.
2	72.	74.	69.	85.	15:57	61.	2:59	95.
3	69.	72.	67.	79.	13:55	61.	4:29	96.
4	71.	73.	69.	84.	16:43	60.	6:11	96.
5	74.	77.	71.	86.	14: 9	62.	6: 9	96.
6	75.	79.	72.	91.	17:33	60.	6: 3	97.
7	76.	77.	74.	91.	17: 6	61.	7:25	98.
8	67.	66.	69.	75.	0: 4	62.	9: 3	96.
9	72.	72.	73.	82.	17:34	54.	7:32	96.
10	71.	73.	70.	80.	17:23	64.	2:22	98.
11	75.	77.	74.	82.	13:13	72.	2:38	95.
12	73.	73.	73.	83.	17:16	65.	12:20	92.
13	70.	71.	68.	80.	12:17	61.	13:53	90.
14	67.	67.	67.	72.	18:29	63.	3:54	85.
15	69.	71.	66.	80.	17:54	60.	21:49	84.
16	68.	70.	67.	84.	16:49	58.	8:20	88.
17	75.	78.	71.	91.	16:28	59.	6:31	92.
18	73.	76.	70.	88.	14:59	62.	5:27	97.
19	71.	72.	70.	82.	17:26	62.	6:32	96.
20	73.	77.	69.	88.	16:44	55.	6:20	98.
21	73.	74.	71.	84.	16:32	61.	7:49	98.
22	70.	73.	67.	81.	14:19	56.	4:59	99.
23	74.	78.	70.	89.	14:52	60.	4: 7	98.
24	81.	84.	78.	92.	15: 2	69.	4:43	98.
25	81.	84.	79.	94.	17:15	72.	5:58	99.
26	81.	84.	78.	94.	16:43	73.	6:30	99.
27	81.	84.	78.	94.	15:44	69.	7:44	100.
28	81.	84.	78.	92.	14:13	74.	3:22	99.
29	81.	85.	78.	93.	16: 3	73.	5:33	99.
30	81.	84.	78.	92.	17: 8	72.	6:44	99.
31	81.	84.	78.	92.	16:20	73.	1:50	99.
MEAN	74.	76.	72.					96.
STANDARD DEVIATION	4.7	5.5	4.2					4.1

ENVIRONMENTAL SUMMARY REPORT

SITE: DALLAS RECREATION CENTER
DALLAS, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 48

LATITUDE: 32.54 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 97.20 DEG WEST PYRANOMETER TILT: 25 DEG ALTITUDE: 551 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE TIME BTU/HR/FT2 HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1193.	N.A.	N.A.	306. 13:28	3319.	36.
2	1878.	N.A.	N.A.	321. 11:53	3317.	57.
3	1689.	N.A.	N.A.	312. 12:23	3311.	51.
4	1416.	N.A.	N.A.	300. 12:57	3309.	43.
5	2194.	N.A.	N.A.	306. 13:29	3307.	66.
6	1313.	N.A.	N.A.	306. 11:51	3305.	40.
7	2147.	N.A.	N.A.	291. 13: 7	3302.	65.
8	807.	N.A.	N.A.	196. 14:35	3300.	24.
9	2211.	N.A.	N.A.	297. 11:53	3298.	67.
10	1982.	N.A.	N.A.	318. 12: 3	3295.	60.
11	1179.	N.A.	N.A.	306. 11:15	3290.	36.
12	1442.	N.A.	N.A.	312. 12:12	3287.	44.
13	*	N.A.	N.A.	* * *	3285.	*
14	981.	N.A.	N.A.	309. 12:23	3282.	30.
15	89.	N.A.	N.A.	64. 15:21	3279.	3.
16	1925.	N.A.	N.A.	288. 12:50	3277.	59.
17	1480.	N.A.	N.A.	306. 13: 0	3274.	45.
18	1925.	N.A.	N.A.	291. 11:34	3272.	59.
19	2070.	N.A.	N.A.	291. 13: 5	3266.	63.
20	1954.	N.A.	N.A.	279. 12:31	3264.	60.
21	1806.	N.A.	N.A.	315. 11:42	3261.	55.
22	1514.	N.A.	N.A.	324. 11:49	3259.	46.
23	2225.	N.A.	N.A.	306. 11:50	3256.	68.
24	1404.	N.A.	N.A.	303. 12:19	3251.	43.
25	1839.	N.A.	N.A.	282. 12:35	3249.	57.
26	2004.	N.A.	N.A.	294. 11:29	3246.	62.
27	1320.	N.A.	N.A.	254. 13:42	3244.	41.
28		N.A.	N.A.	318. 11:28	3242.	
29	*	N.A.	N.A.	* * *	3239.	*
30	*	N.A.	N.A.	* * *	3237.	*
31	1833.	N.A.	N.A.	312. 12:57	3235.	57.
MEAN	1682.	N.A.	N.A.		3276.	
STANDARD DEVIATION	579.	N.A.	N.A.		26.	

ENVIRONMENTAL SUMMARY REPORT

SITE: DALLAS RECREATION CENTER
DALLAS, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 48

LATITUDE: 32.54 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 97.20 DEG WEST PYRANOMETER TILT: 25 DEG ALTITUDE: 551 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.	77.	66.	89.	16:46	61.	5:12	77.
2	71.	77.	64.	84.	13:24	59.	5:24	75.
3	68.	73.	62.	82.	13:27	54.	5:27	76.
4	71.	78.	64.	90.	15:32	59.	1:37	77.
5	76.	84.	69.	91.	13:50	59.	5: 8	73.
6	73.	81.	66.	94.	15:25	63.	18:59	74.
7	76.	81.	71.	91.	15:42	63.	6: 6	77.
8	63.	63.	64.	72.	17:10	53.	23:58	79.
9	66.	72.	60.	81.	14:44	47.	4:46	75.
10	74.	79.	70.	87.	14:38	63.	5: 7	79.
11	79.	83.	76.	90.	13:58	72.	5:28	85.
12	77.	77.	76.	89.	16: 7	67.	9:21	82.
13	72.	79.	71.	81.	17:16	64.	23:56	81.
14	70.	75.	64.	82.	10:52	60.	4:55	78.
15	64.	65.	62.	68.	14:33	58.	23:51	75.
16	70.	77.	63.	90.	16: 2	55.	3:51	75.
17	74.	79.	69.	91.	15: 8	64.	0:54	82.
18	78.	83.	69.	92.	14:51	67.	5:48	81.
19	73.	78.	67.	84.	16:22	62.	23:38	81.
20	73.	81.	65.	91.	14:29	56.	4:58	79.
21	70.	76.	65.	83.	13:55	60.	5:39	79.
22	71.	76.	66.	85.	15:38	59.	1:46	80.
23	75.	82.	68.	90.	15:24	58.	5:16	80.
24	81.	84.	77.	95.	15: 5	68.	5:34	84.
25	84.	90.	80.	97.	15:47	76.	2:54	83.
26	86.	91.	80.	99.	15:45	73.	5:31	78.
27	83.	85.	78.	92.	13:42	76.	6: 3	88.
28	89.	91.	83.	95.	15:18	79.	23:37	81.
29	77.	*	77.	78.	0: 4	76.	4: 4	92.
30	*	*	*	*	*:*	*	*:*	*
31	86.	90.	82.	92.	15:14	78.	23:57	83.
MEAN	75.	79.	70.					80.
STANDARD DEVIATION	6.5	6.7	6.6					4.2

ENVIRONMENTAL SUMMARY REPORT

SITE: RADIAN CORPORATION
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 2

LATITUDE: 30.00 DEG NORTH
LONGITUDE: 98.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: CENTRAL
ALTITUDE: 600 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	1299.	*	*	322.	13:50	3168.	41.
2	1594.	*	*	315.	12: 5	3162.	50.
3	1514.	*	*	322.	13:18	3156.	48.
4	1528.	*	*	315.	10:54	3150.	49.
5	1979.	*	*	315.	13: 2	3143.	63.
6	*	*	*	*	*:*	3137.	*
7	1765.	*	*	294.	12:37	3131.	56.
8	888.	*	*	277.	14:39	3125.	28.
9	2116.	*	*	298.	12:39	3119.	68.
10	623.	*	*	152.	12: 5	3113.	20.
11	575.	*	*	208.	12:15	3107.	19.
12	1105.	*	*	318.	13: 4	3101.	36.
13	280.	*	*	228.	11:14	3095.	9.
14	299.	*	*	59.	11:16	3089.	10.
15	586.	*	*	287.	14: 7	3084.	19.
16	1437.	*	*	332.	12:23	3078.	47.
17	2147.	*	*	298.	12:39	3072.	70.
18	1538.	*	*	315.	13:38	3067.	50.
19	1374.	*	*	329.	13:18	3061.	45.
20	2023.	*	*	291.	12:32	3056.	66.
21	1704.	*	*	301.	12:59	3051.	56.
22	1811.	*	*	315.	13:34	3045.	59.
23	1804.	*	*	304.	14:14	3040.	59.
24	1924.	*	*	280.	12:38	3036.	63.
25	1430.	*	*	301.	14: 8	3031.	47.
26	1527.	*	*	291.	13:15	3026.	50.
27	1701.	*	*	301.	12:16	3021.	56.
28	1517.	*	*	301.	12:20	3017.	50.
29	1421.	*	*	291.	14:16	3013.	47.
30	1589.	*	*	311.	12:56	3009.	53.
31	1759.	*	*	318.	12:25	3005.	59.
MEAN	1429.	0.	0.			3081.	
STANDARD DEVIATION	517.	*****	*****			50.	

ENVIRONMENTAL SUMMARY REPORT

SITE: RADIAN CORPORATION
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 2

LATITUDE: 30.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 98.00 DEG WEST PYRANOMETER TILT: 30 DEG TIME ZONE: CENTRAL
ALTITUDE: 600 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.	73.	65.	80.	16:53	60.	5: 2	N. A.
2	72.	77.	67.	87.	14:59	61.	2:40	N. A.
3	70.	73.	66.	80.	13:18	61.	6: 1	N. A.
4	72.	75.	68.	86.	14:59	60.	5:29	N. A.
5	76.	81.	70.	90.	13:13	63.	4:30	N. A.
6	75.	80.	71.	92.	13:24	64.	4:52	N. A.
7	76.	80.	72.	91.	16:44	62.	4:16	N. A.
8	65.	66.	64.	74.	0: 2	58.	23:45	N. A.
9	68.	73.	64.	82.	15:38	54.	5:16	N. A.
10	72.	74.	70.	79.	17:35	64.	2:18	N. A.
11	76.	78.	74.	84.	12:21	72.	0:53	N. A.
12	75.	76.	74.	88.	15:30	66.	9:25	N. A.
13	70.	71.	69.	83.	11:14	62.	12:56	N. A.
14	68.	68.	67.	74.	18: 7	64.	6: 1	N. A.
15	70.	73.	66.	83.	14:18	61.	17:27	N. A.
16	70.	74.	67.	90.	14:20	61.	5:33	N. A.
17	76.	81.	71.	92.	15: 8	63.	5:16	N. A.
18	75.	79.	70.	90.	14: 5	67.	4:23	N. A.
19	72.	75.	70.	82.	15: 7	65.	8:41	N. A.
20	76.	83.	70.	90.	15:23	61.	5:15	N. A.
21	74.	78.	70.	85.	14:50	65.	2:45	N. A.
22	72.	77.	68.	85.	16:17	60.	4:19	N. A.
23	76.	81.	72.	90.	14:25	63.	4:43	N. A.
24	82.	87.	78.	93.	12:27	73.	0:22	N. A.
25	83.	87.	80.	95.	13:46	76.	3:44	N. A.
26	84.	87.	80.	96.	15:33	74.	4:37	N. A.
27	83.	87.	79.	94.	14:34	74.	5:36	N. A.
28	82.	86.	78.	94.	13:35	74.	2:23	N. A.
29	81.	85.	77.	92.	14:21	74.	4:13	N. A.
30	81.	86.	77.	93.	16: 4	73.	5:12	N. A.
31	81.	85.	77.	92.	15:21	74.	0:25	N. A.
MEAN	75.	79.	71.					N. A.
STANDARD DEVIATION	5.2	5.8	4.9					N. A.

ENVIRONMENTAL SUMMARY REPORT

SITE: RADIAN CORPORATION
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 2

LATITUDE: 30.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 98.00 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 600 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	65.	6.	47.	9.	26.	56.	13: 8
2	2.	4.	358.	5.	16.	349.	3:28
3	16.	7.	23.	11.	26.	29.	12:19
4	355.	5.	359.	7.	21.	329.	7: 5
5	96.	5.	94.	6.	15.	106.	16:57
6	177.	7.	193.	6.	23.	138.	23:54
7	174.	9.	192.	10.	24.	31.	3: 1
8	10.	11.	2.	12.	36.	31.	1: 0
9	126.	9.	109.	8.	28.	192.	23:22
10	179.	14.	185.	14.	31.	175.	4:53
11	166.	11.	166.	12.	27.	175.	12:58
12	180.	7.	*	6.	28.	319.	10:34
13	91.	8.	68.	10.	50.	349.	12:34
14	70.	7.	88.	9.	35.	134.	16:10
15	117.	10.	148.	11.	43.	167.	10:12
16	1.	7.	332.	7.	24.	312.	10:42
17	176.	8.	185.	10.	22.	171.	23:56
18	143.	10.	148.	9.	26.	46.	23:10
19	13.	7.	9.	10.	18.	6.	10:17
20	89.	4.	111.	3.	16.	131.	17: 9
21	344.	9.	345.	10.	24.	7.	16:19
22	336.	6.	333.	10.	20.	312.	16: 1
23	168.	8.	171.	12.	24.	166.	9:47
24	183.	13.	192.	15.	35.	223.	14:24
25	170.	9.	170.	8.	23.	185.	3:23
26	152.	7.	155.	9.	20.	184.	11:23
27	139.	8.	133.	10.	29.	140.	16:36
28	148.	9.	137.	10.	23.	105.	15:31
29	166.	12.	167.	13.	32.	187.	9:23
30	165.	12.	167.	13.	25.	148.	0:40
31	169.	15.	173.	17.	37.	181.	13: 2
MEAN	142.	8.	165.	10.			
STANDARD DEVIATION	90.4	2.7	98.3	2.9			

ENVIRONMENTAL SUMMARY REPORT

SITE: RADIAN CORPORATION
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 2

LATITUDE: 30.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 98.00 DEG WEST PYRANOMETER TILT: 30 DEG TIME ZONE: CENTRAL
ALTIMITUDE: 600 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	5	6	2	0	0	0	0	0
2	12	10	2	0	0	0	0	0	0
3	6	7	7	4	0	0	0	0	0
4	10	8	5	1	0	0	0	0	0
5	5	18	1	0	0	0	0	0	0
6	3	11	5	2	0	0	0	0	3
7	1	9	11	3	0	0	0	0	0
8	1	6	8	9	0	0	0	0	0
9	0	10	10	4	0	0	0	0	0
10	0	1	10	10	3	0	0	0	0
11	0	4	15	5	0	0	0	0	0
12	5	12	6	1	0	0	0	0	0
13	4	10	7	2	1	0	0	0	0
14	3	18	1	2	0	0	0	0	0
15	2	10	8	2	1	1	0	0	0
16	5	15	2	2	0	0	0	0	0
17	2	6	15	1	0	0	0	0	0
18	2	6	12	4	0	0	0	0	0
19	6	7	11	0	0	0	0	0	0
20	13	9	2	0	0	0	0	0	0
21	1	10	11	2	0	0	0	0	0
22	11	5	8	0	0	0	0	0	0
23	6	2	8	8	0	0	0	0	0
24	0	4	10	8	2	0	0	0	0
25	0	11	10	3	0	0	0	0	0
26	5	9	10	0	0	0	0	0	0
27	5	8	6	5	0	0	0	0	0
28	1	8	12	3	0	0	0	0	0
29	0	1	14	9	0	0	0	0	0
30	0	0	18	6	0	0	0	0	0
31	0	0	7	12	4	0	0	0	1
AVERAGE	3.9	7.7	8.3	3.5	0.4	0.0	0.0	0.0	0.1
TOTAL	120	240	258	110	11	1	0	0	4

ENVIRONMENTAL SUMMARY REPORT

SITE: RADIAN CORPORATION
AUSTIN, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 2

LATITUDE: 30.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 98.00 DEG WEST PYRANOMETER TILT: 30 DEG
TIME ZONE: CENTRAL
ALTITUDE: 600 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	83.	74.	91.	100.	0:14	53.	14: 1
2	73.	63.	82.	100.	1:15	41.	16:46
3	69.	59.	79.	86.	6:27	45.	14:11
4	66.	57.	75.	94.	4: 9	42.	15:53
5	63.	54.	72.	92.	4:35	39.	14: 6
6	59.	55.	61.	77.	5: 3	33.	14:12
7	75.	67.	83.	100.	2:40	48.	16:50
8	88.	88.	88.	100.	4:57	69.	16:39
9	65.	50.	80.	99.	2: 4	42.	11: 8
10	87.	81.	93.	100.	1:51	72.	12:10
11	94.	90.	97.	100.	0:31	74.	12:26
12	88.	81.	93.	100.	2: 8	46.	15:30
13	99.	97.	100.	100.	0: 2	71.	12:24
14	98.	98.	98.	100.	0: 4	84.	18:55
15	94.	89.	100.	100.	0: 4	67.	14:12
16	84.	77.	91.	100.	0: 2	44.	14:31
17	70.	59.	81.	100.	2: 4	34.	15:51
18	81.	67.	94.	100.	2:47	47.	13:44
19	81.	75.	86.	100.	0: 3	53.	17:15
20	57.	44.	70.	85.	5:20	34.	15: 1
21	68.	61.	75.	100.	5: 4	43.	15:58
22	63.	53.	73.	91.	4:19	40.	16:33
23	66.	57.	75.	92.	4:54	43.	14:25
24	75.	63.	87.	100.	3:18	47.	11:39
25	76.	67.	85.	98.	2:35	50.	15: 7
26	76.	68.	85.	100.	3:12	51.	15:33
27	69.	62.	75.	99.	5:52	46.	14:34
28	77.	67.	87.	100.	2:28	49.	17:24
29	75.	63.	86.	100.	4:13	49.	16:51
30	72.	61.	82.	95.	4:35	46.	14:21
31	72.	62.	83.	96.	2:49	46.	16:14
MEAN	76.	68.	84.				
STANDARD DEVIATION	11.	14.	9.				

ENVIRONMENTAL SUMMARY REPORT

SITE: RANDOLPH AIR FORCE BASE
UNIVERSAL CITY, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 25

LATITUDE: 29.50 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 98.30 DEG WEST PYRANOMETER TILT: 15 DEG TIME ZONE: CENTRAL
ALTITUDE: 790 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS
	INSOLATION	INSOLATION	INSOLATION	INSOLATION		INSOLATION
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	BTU/FT2	EXT INS
				BTU/HR/FT2		PERCENT
				TIME		
				HR:MN		
1	686.	N.A.	N.A.	302.	3409.	20.
2	2093.	N.A.	N.A.	322.	3411.	61.
3	1547.	N.A.	N.A.	334.	3413.	45.
4	1530.	N.A.	N.A.	334.	3412.	45.
5	1961.	N.A.	N.A.	313.	3413.	57.
6	1960.	N.A.	N.A.	325.	3412.	57.
7	1336.	N.A.	N.A.	325.	3413.	39.
8	1147.	N.A.	N.A.	340.	3414.	34.
9	2276.	N.A.	N.A.	310.	3415.	67.
10	678.	N.A.	N.A.	167.	3414.	20.
11	487.	N.A.	N.A.	155.	3415.	14.
12	759.	N.A.	N.A.	269.	3415.	22.
13	574.	N.A.	N.A.	290.	3416.	17.
14	165.	N.A.	N.A.	123.	3414.	5.
15	760.	N.A.	N.A.	348.	3415.	22.
16	1460.	N.A.	N.A.	337.	3412.	43.
17	2184.	N.A.	N.A.	313.	3413.	64.
18	967.	N.A.	N.A.	325.	3413.	28.
19	1578.	N.A.	N.A.	322.	3413.	46.
20	2149.	N.A.	N.A.	307.	3414.	63.
21	1751.	N.A.	N.A.	351.	3411.	51.
22	2050.	N.A.	N.A.	351.	3411.	60.
23	1756.	N.A.	N.A.	290.	3411.	51.
24	1384.	N.A.	N.A.	296.	3411.	41.
25	1395.	N.A.	N.A.	322.	3411.	41.
26	1328.	N.A.	N.A.	293.	3408.	39.
27	1316.	N.A.	N.A.	322.	3408.	39.
28	1124.	N.A.	N.A.	325.	3408.	33.
29	1520.	N.A.	N.A.	331.	3405.	45.
30	1568.	N.A.	N.A.	343.	3405.	46.
31	1891.	N.A.	N.A.	328.	3405.	56.
MEAN	1399.	N.A.	N.A.		3412.	
STANDARD DEVIATION	557.	N.A.	N.A.		3.	

ENVIRONMENTAL SUMMARY REPORT

SITE: RANDOLPH AIR FORCE BASE
UNIVERSAL CITY, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 25

LATITUDE: 29.50 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 98.30 DEG WEST PYRANOMETER TILT: 15 DEG ALTITUDE: 790 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.	74.	65.	82.	14:34	60.	23:44	97.
2	73.	79.	67.	91.	14:40	59.	0:58	93.
3	71.	75.	67.	83.	14:29	61.	5:57	92.
4	72.	76.	67.	85.	14:20	59.	5:51	99.
5	76.	82.	69.	95.	15:30	60.	5:32	95.
6	76.	81.	70.	94.	15: 5	63.	3:59	98.
7	77.	82.	72.	99.	15: 9	62.	6: 5	98.
8	68.	69.	67.	80.	15:27	59.	23:59	96.
9	69.	73.	64.	85.	15:32	55.	5:35	89.
10	72.	74.	70.	84.	17:23	63.	0:23	94.
11	74.	76.	72.	81.	10:59	71.	3:25	100.
12	74.	75.	73.	84.	15:51	66.	11:29	96.
13	70.	72.	68.	87.	11:54	62.	13:56	101.
14	66.	67.	66.	74.	17:27	63.	0:27	108.
15	72.	73.	70.	83.	17:20	65.	21: 4	103.
16	73.	78.	67.	90.	14:45	62.	3:39	96.
17	76.	81.	70.	93.	13:46	62.	0:10	92.
18	72.	77.	66.	86.	12:14	63.	20:25	94.
19	71.	75.	66.	86.	15:37	64.	2:12	93.
20	75.	80.	69.	92.	16:18	61.	5:38	96.
21	74.	79.	69.	90.	15:25	60.	2:26	95.
22	76.	81.	70.	90.	16:24	65.	5:32	87.
23	76.	80.	71.	89.	16:47	62.	4:29	93.
24	80.	83.	76.	91.	17:30	71.	1:41	94.
25	82.	85.	78.	93.	14:18	75.	3:27	96.
26	81.	85.	77.	92.	14:30	71.	5:31	106.
27	79.	81.	76.	90.	16:18	68.	5:32	106.
28	79.	82.	76.	91.	14:24	73.	5:14	95.
29	80.	84.	76.	92.	14:22	73.	5:50	93.
30	80.	83.	76.	91.	15: 1	72.	23:55	88.
31	79.	83.	75.	91.	15:12	72.	0: 6	88.
MEAN	75.	78.	71.					96.
STANDARD DEVIATION	4.1	4.7	4.0					5.1

ENVIRONMENTAL SUMMARY REPORT

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 3

LATITUDE: 29.97 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 98.48 DEG WEST PYRANOMETER TILT: 30 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	70.	74.	66.	82.	14:36	61.	23:37	75.
2	73.	77.	68.	87.	15:32	61.	1: 2	75.
3	72.	75.	68.	83.	14:49	62.	5:56	75.
4	72.	75.	69.	82.	13:24	61.	4:20	75.
5	75.	79.	72.	89.	16: 5	63.	5:19	75.
6	75.	79.	72.	88.	14:23	64.	3:27	75.
7	77.	81.	74.	91.	13:57	64.	4:21	75.
8	69.	69.	69.	79.	16:23	60.	10:37	75.
9	68.	71.	66.	81.	15:57	56.	5:11	75.
10	73.	74.	71.	81.	17:38	65.	1:33	76.
11	74.	77.	73.	78.	16:19	71.	0:23	77.
12	75.	76.	74.	82.	17:40	67.	10: 6	76.
13	71.	73.	69.	86.	13: 3	62.	17:42	76.
14	67.	68.	67.	74.	17:47	64.	0: 7	76.
15	72.	73.	71.	82.	16:34	66.	21: 1	76.
16	72.	78.	67.	87.	16:36	59.	21:35	77.
17	75.	78.	71.	87.	14:49	63.	2:17	77.
18	72.	76.	68.	81.	12:46	63.	23:10	77.
19	73.	76.	70.	83.	15:37	64.	0: 3	77.
20	74.	78.	71.	86.	15:36	63.	5: 2	77.
21	74.	78.	70.	89.	15:21	61.	2:48	77.
22	75.	79.	72.	86.	15:50	67.	6:17	78.
23	76.	79.	73.	86.	17: 7	65.	3:50	78.
24	79.	82.	77.	87.	15:26	71.	6:16	77.
25	81.	82.	79.	88.	16:59	75.	3:20	77.
26	80.	83.	78.	89.	15:45	72.	4:54	78.
27	79.	81.	77.	87.	16:20	69.	4:11	77.
28	79.	81.	77.	88.	15: 1	73.	5:13	78.
29	80.	83.	77.	90.	15: 7	73.	3:44	78.
30	79.	82.	77.	89.	16:25	73.	3:38	78.
31	79.	82.	76.	88.	14:49	72.	4:35	79.
MEAN	75.	77.	72.					77.
STANDARD DEVIATION	3.7	4.0	3.9					1.2

ENVIRONMENTAL SUMMARY REPORT

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

REPORT PERIOD: 80/ 5
SITE NUMBER: 3

LATITUDE: 29.97 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 98.48 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 750 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	146.	7.	140.	8.	16.	137.	16:57
2	165.	5.	183.	5.	16.	149.	15:53
3	144.	8.	136.	9.	20.	167.	17:45
4	144.	5.	133.	6.	17.	153.	9: 3
5	82.	4.	91.	4.	16.	81.	20:37
6	73.	6.	68.	5.	19.	71.	21:41
7	87.	5.	69.	4.	15.	77.	21:17
8	145.	9.	158.	9.	27.	111.	10:48
9	114.	7.	114.	7.	15.	64.	21:38
10	72.	7.	66.	7.	17.	287.	8:34
11	89.	8.	93.	9.	17.	71.	22:11
12	116.	5.	132.	5.	16.	103.	17:51
13	132.	8.	135.	9.	45.	143.	18:56
14	140.	8.	141.	10.	33.	127.	16:27
15	119.	9.	106.	8.	28.	113.	21:22
16	161.	5.	141.	4.	18.	138.	5: 1
17	94.	5.	94.	3.	15.	127.	1: 8
18	117.	6.	111.	6.	20.	109.	22:33
19	155.	7.	164.	6.	22.	142.	1:34
20	112.	4.	110.	5.	14.	109.	17:17
21	170.	5.	187.	4.	17.	173.	18: 6
22	179.	3.	183.	4.	12.	208.	15:55
23	84.	8.	82.	9.	18.	90.	10: 8
24	84.	7.	65.	7.	15.	116.	11:15
25	86.	6.	86.	6.	15.	94.	0:24
26	99.	6.	87.	6.	19.	263.	0: 6
27	101.	8.	100.	8.	19.	42.	3:23
28	92.	8.	93.	9.	22.	96.	16:32
29	78.	11.	73.	11.	28.	78.	21:14
30	80.	10.	81.	10.	20.	84.	14:13
31	77.	11.	75.	12.	24.	83.	19:21
MEAN	114.	7.	113.	7.			
STANDARD DEVIATION	32.7	2.1	36.9	2.4			

ENVIRONMENTAL SUMMARY REPORT

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

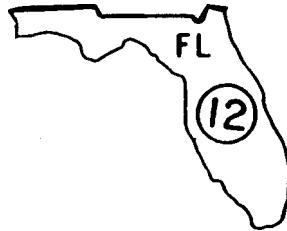
REPORT PERIOD: 80/ 5
SITE NUMBER: 3

LATITUDE: 29.97 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 98.48 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 750 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	2	18	4	0	0	0	0	0	0
2	8	16	0	0	0	0	0	0	0
3	2	9	11	2	0	0	0	0	0
4	10	11	3	0	0	0	0	0	0
5	11	9	4	0	0	0	0	0	0
6	8	9	6	1	0	0	0	0	0
7	11	11	2	0	0	0	0	0	0
8	0	7	15	2	0	0	0	0	0
9	1	15	8	0	0	0	0	0	0
10	1	14	9	0	0	0	0	0	0
11	1	5	8	0	0	0	0	0	1
12	9	13	2	0	0	0	0	0	0
13	3	11	7	3	0	0	0	0	0
14	1	11	11	1	0	0	0	0	0
15	2	5	15	2	0	0	0	0	0
16	7	12	5	0	0	0	0	0	0
17	12	8	4	0	0	0	0	0	0
18	4	16	4	0	0	0	0	0	0
19	5	15	4	0	0	0	0	0	0
20	10	14	0	0	0	0	0	0	0
21	12	9	3	0	0	0	0	0	0
22	16	8	0	0	0	0	0	0	0
23	4	5	15	0	0	0	0	0	0
24	4	12	8	0	0	0	0	0	0
25	4	15	5	0	0	0	0	0	0
26	5	11	8	0	0	0	0	0	0
27	3	7	13	1	0	0	0	0	0
28	0	12	10	2	0	0	0	0	0
29	0	5	11	8	0	0	0	0	0
30	0	6	18	0	0	0	0	0	0
31	0	3	12	8	0	0	0	0	1
AVERAGE	5.0	10.4	7.3	1.0	0.0	0.0	0.0	0.0	0.4
TOTAL	156	322	225	30	0	0	0	0	11

ZONE 12



ENVIRONMENTAL SUMMARY REPORT

SITE: FLORIDA GAS
WINTER SPRING, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 51

LATITUDE: 28.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 82.00 DEG WEST PYRANOMETER TILT: 18 DEG TIME ZONE: EASTERN
ALTITUDE: 106 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	983.	N.A.	N.A.	314.	12:25	3358.	29.
2	1744.	N.A.	N.A.	317.	12:11	3355.	52.
3	1475.	N.A.	N.A.	317.	12:11	3354.	44.
4	1912.	N.A.	N.A.	353.	13: 8	3350.	57.
5	1584.	N.A.	N.A.	323.	11:11	3349.	47.
6	2013.	N.A.	N.A.	314.	12:14	3348.	60.
7	1977.	N.A.	N.A.	320.	12:11	3347.	59.
8	698.	N.A.	N.A.	332.	12:33	3346.	21.
9	414.	N.A.	N.A.	224.	10:22	3345.	12.
10	2214.	N.A.	N.A.	323.	11:14	3341.	66.
11	2072.	N.A.	N.A.	332.	11:57	3339.	62.
12	2182.	N.A.	N.A.	308.	12: 3	3338.	65.
13	1954.	N.A.	N.A.	326.	12:20	3336.	59.
14	1881.	N.A.	N.A.	338.	13: 4	3335.	56.
15	1575.	N.A.	N.A.	320.	11:37	3334.	47.
16	1677.	N.A.	N.A.	314.	11:34	3329.	50.
17	1322.	N.A.	N.A.	287.	12:52	3328.	40.
18	1487.	N.A.	N.A.	311.	11:19	3326.	45.
19	1868.	N.A.	N.A.	344.	11:46	3322.	56.
20	1739.	N.A.	N.A.	305.	11: 7	3320.	52.
21	1977.	N.A.	N.A.	317.	12:21	3319.	60.
22	*	N.A.	N.A.	*	*:*	3317.	*
23	445.	N.A.	N.A.	123.	11:31	3315.	13.
24	1789.	N.A.	N.A.	323.	11:18	3314.	54.
25	1164.	N.A.	N.A.	302.	13:26	3312.	35.
26	1730.	N.A.	N.A.	296.	12:23	3308.	52.
27	1636.	N.A.	N.A.	299.	12:12	3306.	49.
28	2181.	N.A.	N.A.	308.	11:28	3305.	66.
29	2057.	N.A.	N.A.	311.	12:58	3303.	62.
30	1991.	N.A.	N.A.	305.	12: 1	3302.	60.
31	2023.	N.A.	N.A.	296.	12:31	3300.	61.
MEAN	1659.	N.A.	N.A.			3329.	
STANDARD DEVIATION	487.	N.A.	N.A.			18.	

ENVIRONMENTAL SUMMARY REPORT

SITE: FLORIDA GAS
WINTER SPRING, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 51

LATITUDE: 28.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 82.00 DEG WEST PYRANOMETER TILT: 18 DEG ALTITUDE: 106 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	67.	72.	64.	79.	13:13	62.	23:34	N.A.
2	68.	73.	62.	83.	14: 3	56.	6: 8	N.A.
3	67.	73.	61.	85.	12:16	55.	5:33	N.A.
4	71.	75.	66.	84.	14: 7	61.	6:13	N.A.
5	70.	75.	65.	83.	12:58	58.	6:18	N.A.
6	71.	76.	65.	83.	14:22	60.	6:16	N.A.
7	73.	79.	67.	87.	14: 9	62.	5:47	N.A.
8	65.	68.	62.	81.	12:33	58.	5:32	N.A.
9	65.	66.	64.	70.	12:35	58.	23:18	N.A.
10	68.	74.	62.	82.	14:21	56.	4:43	N.A.
11	69.	76.	63.	83.	14:32	57.	6: 5	N.A.
12	70.	77.	62.	87.	14:27	54.	5:55	N.A.
13	72.	79.	65.	90.	16:20	58.	3:31	N.A.
14	76.	81.	70.	90.	13:47	65.	4: 0	N.A.
15	74.	80.	67.	90.	14:28	63.	5:24	N.A.
16	75.	80.	70.	90.	13:58	66.	4:26	N.A.
17	75.	79.	70.	85.	13:56	67.	5:51	N.A.
18	77.	81.	72.	89.	15:30	68.	5:40	N.A.
19	76.	82.	70.	91.	15:14	65.	6:15	N.A.
20	78.	83.	73.	91.	15: 1	70.	3:28	N.A.
21	78.	82.	69.	92.	15:22	67.	3:54	N.A.
22	71.	77.	69.	80.	16:57	67.	23:53	N.A.
23	70.	72.	68.	78.	11:37	66.	4:57	N.A.
24	75.	80.	69.	86.	15: 2	64.	2:51	N.A.
25	70.	74.	66.	82.	15:12	62.	18:58	N.A.
26	72.	78.	66.	86.	15:14	62.	3: 8	N.A.
27	72.	77.	67.	83.	13:59	63.	5: 6	N.A.
28	70.	76.	64.	83.	14: 8	60.	5:52	N.A.
29	70.	77.	63.	83.	14:23	58.	3: 0	N.A.
30	71.	77.	65.	84.	14: 9	60.	5:16	N.A.
31	72.	78.	66.	85.	14:13	60.	5:35	N.A.
MEAN	72.	77.	66.					N.A.
STANDARD DEVIATION	3.5	3.9	3.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: FLORIDA GAS
WINTER SPRING, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 51

LATITUDE: 28.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 82.00 DEG WEST PYRANOMETER TILT: 18 DEG

TIME ZONE: EASTERN
ALTITUDE: 106 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	28.	28.	29.	32.	22:40	25.	15:26
2	28.	27.	30.	32.	0:16	21.	12:54
3	30.	29.	31.	33.	23:28	23.	12:37
4	32.	30.	33.	42.	7:17	20.	11:27
5	31.	32.	30.	42.	7:27	21.	19: 4
6	24.	24.	24.	30.	6:48	18.	17:21
7	25.	25.	26.	31.	8:17	18.	16:49
8	33.	34.	33.	45.	16:55	23.	13: 5
9	37.	38.	36.	46.	14:27	33.	13:44
10	33.	33.	34.	39.	8:29	26.	15:57
11	31.	29.	32.	38.	8: 2	22.	17:27
12	29.	28.	31.	34.	8:57	22.	14:17
13	32.	31.	32.	41.	8:20	26.	12: 4
14	31.	30.	31.	39.	8:21	22.	14:24
15	33.	32.	35.	42.	19: 1	28.	14:44
16	38.	38.	39.	48.	18:49	26.	14:24
17	39.	37.	40.	43.	7:43	31.	13:40
18	37.	36.	38.	43.	23: 9	31.	14:31
19	34.	33.	36.	40.	8:29	24.	16: 7
20	35.	34.	36.	45.	6:56	25.	14:56
21	36.	35.	38.	45.	6:29	29.	12:37
22	43.	39.	44.	47.	21:45	38.	16:52
23	43.	44.	43.	50.	8:35	39.	6:11
24	37.	37.	38.	42.	0: 6	29.	17:36
25	35.	34.	36.	39.	19: 3	26.	16:49
26	34.	33.	34.	39.	21: 6	28.	18:15
27	34.	32.	36.	42.	21:36	27.	13:59
28	31.	29.	34.	38.	21:40	22.	15:49
29	32.	31.	33.	39.	21:59	26.	15:38
30	32.	30.	34.	42.	23:59	24.	16: 1
31	33.	31.	36.	41.	7:38	25.	14:45
MEAN	33.	32.	34.				
STANDARD DEVIATION	4.	4.	4.				

ENVIRONMENTAL SUMMARY REPORT

SITE: FLORIDA I-95 VISITORS CENTER
YULEE, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 29

LATITUDE: 30.30 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 81.42 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 26 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	1152.	837.	315.	299.	11:25	3176.	36.
2	1550.	651.	899.	319.	11:56	3170.	49.
3	1071.	545.	526.	292.	11:32	3164.	34.
4	1499.	722.	777.	343.	12:19	3158.	47.
5	1552.	697.	855.	313.	12: 9	3152.	49.
6	1847.	683.	1163.	309.	12:39	3146.	59.
7	1911.	475.	1436.	323.	12: 9	3140.	61.
8	1018.	701.	317.	286.	13:54	3134.	32.
9	364.	263.	101.	286.	14: 6	3128.	12.
10	1768.	660.	1108.	339.	12:11	3122.	57.
11	1721.	590.	1131.	353.	12:43	3116.	55.
12	2054.	410.	1644.	299.	12: 4	3111.	66.
13	2038.	441.	1597.	316.	12:14	3105.	66.
14	1771.	535.	1237.	333.	12:41	3099.	57.
15	1673.	494.	1179.	319.	12:22	3093.	54.
16	1106.	794.	312.	299.	11:50	3088.	36.
17	1146.	842.	304.	242.	11:55	3082.	37.
18	1571.	394.	1177.	319.	11:49	3077.	51.
19	1262.	528.	734.	296.	11:55	3072.	41.
20	1721.	592.	1130.	319.	12:25	3066.	56.
21	1836.	580.	1256.	339.	12:24	3061.	60.
22	715.	564.	151.	212.	9:22	3056.	23.
23	754.	523.	231.	192.	15:37	3051.	25.
24	*	*	*	*	*:*	3046.	*
25	*	*	*	*	*:*	3042.	*
26	1721.	716.	1006.	309.	12:43	3037.	57.
27	2047.	593.	1453.	302.	12:37	3033.	67.
28	1974.	651.	1322.	282.	13: 3	3028.	65.
29	1931.	723.	1209.	282.	11:39	3024.	64.
30	1527.	854.	673.	282.	12:42	3020.	51.
31	1446.	892.	554.	286.	13:12	3016.	48.
MEAN	1509.	619.	890.			3091.	
STANDARD DEVIATION	438.	151.	460.			49.	

ENVIRONMENTAL SUMMARY REPORT

SITE: FLORIDA I-95 VISITORS CENTER
YULEE, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 29

LATITUDE: 30.30 DEG NORTH AZIMUTH: 0 DEG TIME_ZONE: EASTERN
LONGITUDE: 81.42 DEG WEST PYRANOMETER TILT: 30 DEG ALTITUDE: 26 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	66.	71.	60.	83.	12:51	57.	5:59	N.A.
2	68.	76.	60.	86.	11:56	54.	23:59	N.A.
3	66.	74.	57.	89.	13:19	51.	3:48	N.A.
4	69.	75.	63.	84.	12:14	60.	5:51	N.A.
5	73.	79.	64.	91.	13:18	62.	0:3	N.A.
6	73.	81.	64.	91.	13:59	56.	5:54	N.A.
7	76.	85.	67.	93.	15:13	56.	5:2	N.A.
8	71.	75.	67.	83.	16:34	64.	5:48	N.A.
9	62.	62.	61.	69.	14:28	54.	23:55	N.A.
10	66.	74.	58.	82.	15:44	49.	3:44	N.A.
11	72.	81.	63.	89.	12:22	56.	4:48	N.A.
12	73.	83.	63.	92.	13:13	56.	5:8	N.A.
13	76.	85.	67.	97.	14:22	61.	4:46	N.A.
14	79.	87.	71.	98.	15:53	65.	2:38	N.A.
15	75.	84.	67.	95.	12:49	64.	5:37	N.A.
16	74.	78.	70.	85.	11:50	67.	0:4	N.A.
17	79.	83.	74.	88.	11:55	72.	4:42	N.A.
18	80.	88.	73.	97.	11:55	67.	5:25	N.A.
19	75.	82.	70.	94.	12:5	67.	5:36	N.A.
20	80.	86.	73.	93.	16:30	68.	0:14	N.A.
21	78.	87.	70.	98.	12:29	64.	4:51	N.A.
22	72.	76.	68.	85.	9:22	65.	3:24	N.A.
23	75.	79.	70.	91.	16:25	67.	0:25	N.A.
24	*	*	*	*	*:*	*	*:*	N.A.
25	67.	*	67.	68.	18:31	65.	22:41	N.A.
26	76.	84.	67.	92.	13:47	63.	5:36	N.A.
27	73.	82.	63.	88.	14:19	59.	22:39	N.A.
28	73.	83.	62.	90.	13:25	57.	4:47	N.A.
29	72.	81.	62.	89.	12:59	55.	5:15	N.A.
30	73.	81.	65.	88.	12:10	59.	5:8	N.A.
31	73.	81.	66.	87.	15:20	59.	5:18	N.A.
MEAN	73.	80.	66.					N.A.
STANDARD DEVIATION	4.6	5.6	4.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

SITE: FLORIDA I-95 VISITORS CENTER
YULEE, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 29

LATITUDE: 30.30 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 81.42 DEG WEST PYRANOMETER TILT: 30 DEG

TIME ZONE: EASTERN
ALTITUDE: 26 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	6.	9.	3.	75.	9:44	0.	11:41
2	2.	3.	2.	61.	14:15	0.	10:41
3	12.	18.	6.	85.	15:59	0.	0: 4
4	21.	30.	12.	88.	13: 2	10.	0:20
5	30.	40.	16.	100.	12:51	11.	0:41
6	17.	22.	11.	81.	9: 1	0.	14:10
7	18.	26.	11.	80.	9: 7	0.	13:53
8	33.	45.	21.	90.	15: 3	4.	0:12
9	27.	37.	16.	88.	13:50	11.	23:18
10	15.	18.	12.	83.	15:44	7.	7:23
11	36.	50.	23.	93.	15:26	12.	7: 7
12	36.	45.	27.	86.	15:26	11.	5:24
13	53.	64.	42.	95.	13:55	16.	5:50
14	60.	69.	50.	96.	10:54	25.	2:38
15	62.	73.	52.	98.	14:19	24.	5:42
16	66.	78.	54.	100.	8:54	29.	3:21
17	76.	85.	67.	100.	6:50	25.	2:23
18	72.	71.	72.	100.	10: 3	33.	2: 8
19	73.	76.	71.	100.	15:39	30.	4: 0
20	67.	69.	65.	99.	6:28	32.	16: 9
21	71.	76.	66.	100.	12:13	27.	6:16
22	67.	77.	57.	100.	14:26	29.	6:47
23	67.	78.	49.	100.	9:29	27.	0:51
24	*	*	*	*	*:*	*	*:*
25	56.	0.	56.	92.	18:47	27.	20:44
26	56.	70.	40.	95.	13:20	23.	6: 8
27	46.	60.	33.	94.	8:21	12.	13:19
28	39.	50.	28.	87.	8:37	12.	4:58
29	44.	57.	30.	89.	16:27	10.	5:20
30	49.	63.	35.	92.	15: 6	14.	5:56
31	51.	59.	43.	81.	12: 3	17.	5:50
MEAN	44.	52.	36.				
STANDARD DEVIATION	22.	23.	22.				

ENVIRONMENTAL SUMMARY REPORT

SITE: MATT D. CANNON
GAINESVILLE, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 163

LATITUDE: 29.40 DEG NORTH
LONGITUDE: 82.10 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 30 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	383.	N.A.	N.A.	198.	14:16	2700.	14.
2	1798.	N.A.	N.A.	328.	12:15	2689.	67.
3	1031.	N.A.	N.A.	331.	12:26	2676.	39.
4	1500.	N.A.	N.A.	310.	14: 7	2662.	56.
5	1425.	N.A.	N.A.	310.	13: 8	2649.	54.
6	1877.	N.A.	N.A.	298.	13:48	2639.	71.
7	1695.	N.A.	N.A.	298.	13:23	2628.	64.
8	675.	N.A.	N.A.	278.	14:36	2615.	26.
9	450.	N.A.	N.A.	204.	13:21	2603.	17.
10	1844.	N.A.	N.A.	328.	12:38	2590.	71.
11	1937.	N.A.	N.A.	316.	12:38	2581.	75.
12	1976.	N.A.	N.A.	313.	13:22	2569.	77.
13	2057.	N.A.	N.A.	313.	13:20	2557.	80.
14	1531.	N.A.	N.A.	328.	13:54	2545.	60.
15	990.	N.A.	N.A.	354.	14: 8	2536.	39.
16	824.	N.A.	N.A.	292.	12:51	2525.	33.
17	1340.	N.A.	N.A.	266.	13:10	2517.	53.
18	1519.	N.A.	N.A.	304.	12:54	2506.	61.
19	1820.	N.A.	N.A.	298.	13:36	2496.	73.
20	1542.	N.A.	N.A.	307.	12:44	2485.	62.
21	1631.	N.A.	N.A.	319.	13: 6	2478.	66.
22	1086.	N.A.	N.A.	280.	14:47	2468.	44.
23	652.	N.A.	N.A.	242.	15:15	2459.	27.
24	1687.	N.A.	N.A.	286.	13: 3	2449.	69.
25	1253.	N.A.	N.A.	289.	13: 3	2441.	51.
26	1748.	N.A.	N.A.	292.	13:29	2434.	72.
27	1865.	N.A.	N.A.	295.	13:18	2426.	77.
28	1701.	N.A.	N.A.	316.	13:46	2418.	70.
29	1818.	N.A.	N.A.	301.	13: 4	2413.	75.
30	1873.	N.A.	N.A.	313.	13:17	2405.	78.
31	1705.	N.A.	N.A.	298.	13:25	2398.	71.
MEAN	1459.	N.A.	N.A.			2534.	
STANDARD DEVIATION	472.	N.A.	N.A.			93.	

ENVIRONMENTAL SUMMARY REPORT

SITE: MATT D. CANNON
GAINESVILLE, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 163

LATITUDE: 29.40 DEG NORTH
LONGITUDE: 82.10 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 30 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	67.	68.	65.	74.	14:16	63.	21:41	73.
2	74.	82.	65.	91.	16:15	59.	4:53	73.
3	71.	80.	62.	94.	12:32	58.	6: 8	74.
4	69.	77.	66.	90.	14:28	59.	5:57	75.
5	71.	77.	67.	89.	15: 6	60.	5:24	74.
6	76.	84.	70.	88.	15:25	62.	5:27	76.
7	75.	84.	69.	93.	15:15	64.	3:58	76.
8	70.	71.	69.	82.	16:44	65.	1:32	74.
9	65.	65.	64.	69.	3:45	57.	23:45	72.
10	71.	80.	63.	93.	16:12	53.	3:34	72.
11	77.	85.	69.	95.	16:38	63.	5:32	74.
12	77.	86.	69.	96.	15:30	60.	5:33	78.
13	79.	87.	71.	98.	16:16	64.	4:53	78.
14	80.	87.	73.	98.	14: 4	66.	5:38	79.
15	76.	83.	69.	94.	15:28	66.	5:20	79.
16	75.	80.	71.	95.	12:51	69.	2:59	77.
17	79.	84.	73.	94.	15:23	71.	23:55	77.
18	83.	90.	76.	102.	14:40	70.	0: 1	78.
19	82.	90.	75.	98.	15: 7	71.	5:36	79.
20	80.	85.	76.	93.	13:43	72.	0: 1	80.
21	81.	90.	74.	101.	16:23	68.	5:16	79.
22	74.	76.	72.	88.	14:57	68.	3: 8	78.
23	74.	75.	73.	86.	16:29	69.	12:29	77.
24	79.	86.	74.	92.	12:26	69.	4:47	77.
25	74.	80.	69.	92.	13: 8	60.	15:12	78.
26	77.	84.	71.	91.	16: 9	66.	2:11	77.
27	77.	86.	68.	93.	12:51	64.	4:14	78.
28	77.	87.	69.	94.	15:11	62.	5:45	78.
29	75.	85.	67.	94.	15:44	59.	4:53	78.
30	77.	87.	69.	95.	15: 4	63.	4:56	78.
31	78.	87.	70.	95.	15: 6	64.	4:11	79.
MEAN	75.	82.	70.					77.
STANDARD DEVIATION	4.3	6.2	3.6					2.3

ENVIRONMENTAL SUMMARY REPORT

SITE: REEDY CREEK UTILITIES
LAKE BUENA VISTA, FLORIDA

REPORT PERIOD: 80/ 5
SITE NUMBER: 18

LATITUDE: 28.40 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 81.30 DEG WEST PYRANOMETER TILT: 0 DEG ALTITUDE: 66 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	1093.	789.	304.	302.	12: 5	3453.	32.
2	1886.	592.	1294.	321.	13:21	3461.	54.
3	1531.	556.	976.	340.	12:42	3471.	44.
4	1784.	430.	1354.	330.	12:16	3478.	51.
5	1435.	594.	841.	340.	12:29	3485.	41.
6	2011.	728.	1284.	314.	12:26	3491.	58.
7	2028.	618.	1410.	321.	12: 6	3501.	58.
8	1104.	697.	408.	318.	12: 0	3507.	31.
9	448.	358.	90.	184.	10: 6	3513.	13.
10	2099.	517.	1582.	340.	12:45	3521.	60.
11	2220.	428.	1793.	346.	11:41	3527.	63.
12	2350.	223.	2127.	311.	12:22	3535.	66.
13	2043.	499.	1543.	346.	12: 8	3540.	58.
14	2032.	527.	1504.	346.	12:15	3545.	57.
15	2209.	472.	1737.	334.	12:30	3552.	62.
16	1632.	536.	1096.	346.	11:49	3557.	46.
17	1742.	895.	847.	292.	12:29	3564.	49.
18	1836.	637.	1199.	375.	12:25	3568.	51.
19	2200.	415.	1786.	343.	11:46	3572.	62.
20	1915.	606.	1309.	314.	11:33	3578.	54.
21	1678.	423.	1255.	330.	12:36	3581.	47.
22	927.	434.	494.	254.	14:48	3587.	26.
23	614.	455.	159.	172.	16:22	3593.	17.
24	1973.	491.	1482.	337.	12:43	3595.	55.
25	1232.	473.	759.	327.	12:59	3598.	34.
26	2000.	793.	1207.	311.	13: 2	3603.	56.
27	1963.	699.	1264.	314.	12:35	3605.	54.
28	2078.	613.	1465.	346.	11:57	3610.	58.
29	1847.	720.	1127.	305.	11:51	3613.	51.
30	2142.	607.	1535.	321.	12:11	3615.	59.
31	1582.	767.	815.	314.	11:13	3619.	44.
MEAN	1730.	567.	1163.			3550.	
STANDARD DEVIATION	479.	148.	498.			51.	

ENVIRONMENTAL SUMMARY REPORT

SITE: REEDY CREEK UTILITIES
LAKE BUENA VISTA, FLORIDA

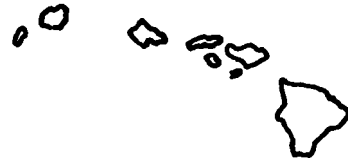
REPORT PERIOD: 80/ 5
SITE NUMBER: 18

LATITUDE: 28.40 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 81.30 DEG WEST PYRANOMETER TILT: 0 DEG ALTITUDE: 66 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.	68.	85.	13: 4	64.	2:51	*
2	75.	80.	69.	89.	14:55	64.	5:58	*
3	77.	82.	71.	93.	12:20	64.	5:46	*
4	76.	81.	71.	90.	15:34	66.	5:24	*
5	75.	77.	68.	90.	12:13	64.	23:48	*
6	75.	80.	68.	87.	14:18	64.	1:40	*
7	77.	82.	70.	91.	12:22	64.	5:37	*
8	71.	75.	67.	85.	15:12	62.	5:41	*
9	70.	71.	68.	76.	17:49	64.	23:46	*
10	75.	81.	69.	91.	13:12	62.	5:12	*
11	79.	84.	72.	92.	16:24	67.	5:28	*
12	78.	84.	70.	94.	16:27	62.	5:20	*
13	80.	85.	74.	96.	16:45	65.	5:49	*
14	82.	87.	76.	95.	11:33	72.	6: 2	*
15	82.	88.	75.	97.	12:35	68.	4:46	*
16	82.	87.	76.	97.	16:46	74.	5:30	*
17	83.	87.	78.	95.	15:20	75.	4:19	*
18	84.	88.	79.	98.	16:31	76.	1: 7	*
19	85.	90.	78.	101.	16:29	73.	4:52	*
20	83.	87.	78.	95.	13:41	75.	5:31	*
21	80.	86.	72.	99.	13:56	69.	17:39	*
22	75.	77.	73.	88.	17: 2	68.	10:59	*
23	75.	77.	72.	85.	11:13	71.	23: 2	*
24	80.	86.	74.	94.	13:58	69.	5: 4	*
25	74.	78.	69.	88.	15:12	64.	19:31	*
26	78.	83.	71.	91.	16:51	65.	0: 3	*
27	79.	83.	73.	90.	12: 8	69.	4:56	*
28	79.	83.	72.	90.	13:33	68.	5: 1	*
29	78.	83.	72.	91.	14:27	65.	5:43	*
30	79.	84.	72.	90.	12:11	68.	2: 8	*
31	79.	83.	74.	91.	16: 6	69.	5:42	*
MEAN	78.	82.	72.					0.
STANDARD DEVIATION	3.8	4.5	3.3					*

HAWAII



ENVIRONMENTAL SUMMARY REPORT

SITE: A-FRAME INDUSTRIES
KANEHOE, HAWAII

REPORT PERIOD: 80/ 5
SITE NUMBER: 54

LATITUDE: 21.50 DEG NORTH
LONGITUDE: 158.00 DEG WEST

AZIMUTH: -10 DEG
PYRANOMETER TILT: 21 DEG

TIME ZONE: HONOLULU
ALTITUDE: 50 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	929.	N.A.	N.A.	217.	12: 1	3187.	29.
2	1838.	N.A.	N.A.	381.	12:54	3181.	58.
3	1007.	N.A.	N.A.	259.	10: 3	3175.	32.
4	1454.	N.A.	N.A.	322.	10: 4	3169.	46.
5	1776.	N.A.	N.A.	331.	11: 3	3164.	56.
6	1418.	N.A.	N.A.	342.	11:31	3158.	45.
7	1341.	N.A.	N.A.	357.	11:29	3152.	43.
8	1234.	N.A.	N.A.	313.	11:37	3146.	39.
9	1300.	N.A.	N.A.	280.	9:33	3141.	41.
10	1510.	N.A.	N.A.	363.	12:26	3135.	48.
11	1157.	N.A.	N.A.	277.	10:27	3129.	37.
12	1769.	N.A.	N.A.	357.	12:12	3124.	57.
13	1520.	N.A.	N.A.	357.	11:43	3118.	49.
14	1534.	N.A.	N.A.	339.	13:22	3113.	49.
15	1504.	N.A.	N.A.	342.	13: 7	3104.	48.
16	1482.	N.A.	N.A.	360.	11:47	3099.	48.
17	1596.	N.A.	N.A.	310.	10:48	3094.	52.
18	1599.	N.A.	N.A.	313.	10:55	3088.	52.
19	1510.	N.A.	N.A.	334.	11:38	3083.	49.
20	1070.	N.A.	N.A.	304.	13:52	3078.	35.
21	1272.	N.A.	N.A.	292.	9:46	3073.	41.
22	1092.	N.A.	N.A.	334.	12: 7	3068.	36.
23	1201.	N.A.	N.A.	342.	11:36	3064.	39.
24	1138.	N.A.	N.A.	307.	11:26	3059.	37.
25	1167.	N.A.	N.A.	360.	11:29	3054.	38.
26	1422.	N.A.	N.A.	345.	11:50	3050.	47.
27	1375.	N.A.	N.A.	360.	11:52	3045.	45.
28	700.	N.A.	N.A.	185.	14:49	3041.	23.
29	1975.	N.A.	N.A.	336.	12:20	3037.	65.
30	1515.	N.A.	N.A.	348.	12: 5	3033.	50.
31	822.	N.A.	N.A.	372.	13: 3	3029.	27.
MEAN	1362.	N.A.	N.A.			3103.	
STANDARD DEVIATION	295.	N.A.	N.A.			49.	

ENVIRONMENTAL SUMMARY REPORT

SITE: A-FRAME INDUSTRIES
KANEHOE, HAWAII

REPORT PERIOD: 80/ 5
SITE NUMBER: 54

LATITUDE: 21.50 DEG NORTH AZIMUTH: -10 DEG TIME ZONE: HONOLULU
LONGITUDE: 158.00 DEG WEST PYRANOMETER TILT: 21 DEG ALTITUDE: 50 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.	73.	71.	76.	12: 6	69.	3:34	72.
2	73.	76.	71.	79.	14: 3	70.	5:18	74.
3	72.	74.	71.	76.	13:31	69.	6:41	72.
4	73.	74.	71.	78.	14:47	69.	6: 4	72.
5	74.	77.	71.	82.	14:37	67.	6:31	73.
6	74.	77.	72.	81.	13:48	70.	4: 8	73.
7	74.	76.	73.	79.	11:42	72.	0:18	75.
8	74.	75.	73.	78.	11:42	70.	6:11	73.
9	75.	76.	73.	79.	11:59	72.	5:49	75.
10	75.	77.	72.	82.	11:54	69.	3:22	73.
11	74.	76.	73.	79.	9:45	70.	2:34	73.
12	74.	77.	72.	81.	10:27	70.	21:10	74.
13	74.	76.	72.	79.	15:38	70.	23: 0	72.
14	75.	78.	72.	83.	13:33	71.	2:44	75.
15	75.	77.	73.	82.	10:42	71.	6: 0	74.
16	75.	78.	73.	84.	11:47	71.	1: 7	74.
17	77.	79.	74.	83.	14:22	72.	3:47	75.
18	75.	77.	73.	82.	11: 0	72.	22:44	74.
19	75.	77.	73.	81.	11:59	72.	5:46	73.
20	74.	75.	72.	78.	14: 8	70.	23:54	73.
21	74.	76.	72.	80.	9:46	70.	0:10	73.
22	75.	77.	73.	81.	12:17	71.	5: 8	74.
23	76.	79.	72.	86.	11:53	71.	6: 4	77.
24	74.	76.	71.	85.	13: 8	69.	5:29	74.
25	74.	76.	72.	85.	11:39	68.	5: 2	74.
26	76.	78.	73.	83.	11:39	72.	4:54	76.
27	76.	78.	74.	81.	12: 3	73.	1:26	75.
28	74.	76.	73.	80.	15:31	71.	23:26	74.
29	77.	81.	72.	87.	14:20	70.	2:33	75.
30	75.	81.	70.	88.	12:15	69.	23:59	75.
31	72.	73.	70.	78.	13:41	69.	1:51	73.
MEAN	74.	77.	72.					74.
STANDARD DEVIATION	1.2	1.8	0.9					1.3

ENVIRONMENTAL SUMMARY REPORT

SITE: HEI WAI WONG
HONOLULU, HAWAII

REPORT PERIOD: 80/ 5
SITE NUMBER: 59

LATITUDE: 21.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: HONOLULU
LONGITUDE: 157.00 DEG WEST PYRANOMETER TILT: 24 DEG ALTITUDE: 7 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.	74.	72.	79.	15:35	69.	4:18	74.
2	76.	79.	73.	82.	13:48	71.	1:32	74.
3	74.	75.	73.	80.	10:52	70.	5:42	74.
4	75.	77.	73.	81.	12: 0	70.	6:24	74.
5	76.	79.	73.	82.	12: 5	70.	3:34	77.
6	76.	79.	74.	83.	13:12	72.	3:38	76.
7	76.	77.	74.	80.	13: 6	73.	3:41	75.
8	75.	77.	74.	80.	16: 6	72.	23:45	74.
9	75.	77.	73.	80.	15:40	71.	4:22	73.
10	75.	77.	73.	81.	11:45	70.	5:32	73.
11	76.	78.	73.	82.	13:36	70.	3:19	74.
12	75.	78.	73.	81.	14: 3	71.	23:23	74.
13	76.	79.	73.	83.	13:39	70.	5: 5	74.
14	77.	80.	74.	84.	12:26	70.	5:28	75.
15	76.	79.	74.	84.	14: 7	72.	3:44	76.
16	76.	79.	74.	84.	15: 7	72.	1:20	75.
17	78.	80.	75.	84.	13:26	73.	3: 2	75.
18	77.	79.	75.	82.	11:54	74.	22:56	76.
19	76.	79.	74.	82.	15:23	73.	5:26	75.
20	75.	77.	74.	80.	15:49	70.	23:54	76.
21	75.	78.	73.	81.	15:24	70.	0: 5	76.
22	77.	80.	74.	84.	12:17	71.	5: 0	76.
23	78.	81.	75.	85.	12: 3	72.	5:46	75.
24	78.	81.	75.	86.	15:47	72.	5:23	76.
25	76.	79.	74.	85.	9:28	71.	14:11	75.
26	76.	79.	74.	84.	10:38	71.	20:24	75.
27	77.	79.	75.	83.	12: 6	74.	5:12	75.
28	76.	78.	74.	86.	9:52	72.	5:47	75.
29	78.	80.	75.	85.	12:40	71.	5: 4	74.
30	77.	81.	74.	85.	13:36	70.	21:47	76.
31	76.	78.	74.	83.	10:14	72.	0: 6	74.
MEAN	76.	78.	74.					75.
STANDARD DEVIATION	1.1	1.6	0.9					1.0

ENVIRONMENTAL SUMMARY REPORT

SITE: HEI WAI WONG
HONOLULU, HAWAII

REPORT PERIOD: 80/ 5
SITE NUMBER: 59

LATITUDE: 21.00 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: HONOLULU
LONGITUDE: 157.00 DEG WEST PYRANOMETER TILT: 24 DEG ALTITUDE: 7 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	218.	11.	221.	11.	26.	195.	12:49
2	215.	8.	215.	9.	19.	237.	9:43
3	213.	8.	214.	8.	24.	202.	21:21
4	209.	11.	207.	13.	28.	224.	14:56
5	222.	7.	219.	9.	21.	204.	15:22
6	221.	9.	218.	10.	24.	238.	11:41
7	225.	11.	225.	13.	28.	218.	8:56
8	221.	11.	218.	13.	27.	225.	16:27
9	225.	10.	224.	10.	25.	241.	20:17
10	211.	10.	213.	11.	24.	198.	11:51
11	216.	9.	217.	11.	26.	195.	20: 6
12	219.	10.	217.	11.	24.	209.	17:10
13	218.	9.	221.	9.	21.	216.	5:31
14	220.	6.	216.	8.	21.	206.	14:50
15	221.	7.	220.	8.	21.	216.	14:55
16	232.	4.	246.	5.	15.	307.	15:55
17	219.	7.	217.	8.	21.	233.	20: 6
18	225.	11.	220.	13.	34.	202.	12:37
19	218.	10.	218.	11.	24.	198.	3:28
20	223.	10.	229.	11.	26.	224.	21:20
21	222.	9.	222.	11.	24.	246.	15:19
22	229.	6.	232.	8.	21.	199.	11:18
23	310.	4.	351.	5.	13.	352.	12: 8
24	317.	3.	357.	4.	11.	333.	17: 7
25	263.	3.	309.	4.	14.	201.	21:44
26	231.	4.	235.	5.	16.	248.	20:19
27	228.	8.	227.	10.	20.	236.	14:24
28	260.	2.	286.	3.	12.	262.	11:18
29	345.	4.	351.	6.	14.	317.	13:44
30	349.	4.	348.	5.	13.	359.	15:23
31	237.	4.	243.	5.	19.	237.	13: 4
MEAN	225.	7.	226.	9.			
STANDARD DEVIATION	40.8	2.9	50.4	3.0			

ENVIRONMENTAL SUMMARY REPORT

SITE: HEI WAI WONG
HONOLULU, HAWAII

REPORT PERIOD: 80/ 5
SITE NUMBER: 59

LATITUDE: 21.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 157.00 DEG WEST PYRANOMETER TILT: 24 DEG
TIME ZONE: HONOLULU
ALTITUDE: 7 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	0	5	14	5	0	0	0	0	0
2	2	10	12	0	0	0	0	0	0
3	4	5	15	0	0	0	0	0	0
4	2	4	9	8	1	0	0	0	0
5	5	8	10	1	0	0	0	0	0
6	3	6	12	3	0	0	0	0	0
7	0	4	14	6	0	0	0	0	0
8	0	3	14	7	0	0	0	0	0
9	0	6	15	3	0	0	0	0	0
10	1	6	15	2	0	0	0	0	0
11	4	4	12	4	0	0	0	0	0
12	1	4	16	3	0	0	0	0	0
13	0	11	12	1	0	0	0	0	0
14	7	12	4	1	0	0	0	0	0
15	7	9	8	0	0	0	0	0	0
16	8	11	1	0	0	0	0	0	4
17	8	3	12	1	0	0	0	0	0
18	0	8	8	7	1	0	0	0	0
19	1	5	14	4	0	0	0	0	0
20	0	2	21	1	0	0	0	0	0
21	0	9	14	1	0	0	0	0	0
22	9	5	9	1	0	0	0	0	0
23	13	10	1	0	0	0	0	0	0
24	15	9	0	0	0	0	0	0	0
25	14	9	1	0	0	0	0	0	0
26	10	12	2	0	0	0	0	0	0
27	3	10	9	2	0	0	0	0	0
28	20	4	0	0	0	0	0	0	0
29	14	7	3	0	0	0	0	0	0
30	13	10	1	0	0	0	0	0	0
31	12	8	3	0	0	0	0	0	1
AVERAGE	5.7	7.1	9.1	2.0	0.1	0.0	0.0	0.0	0.2
TOTAL	176	219	281	61	2	0	0	0	5