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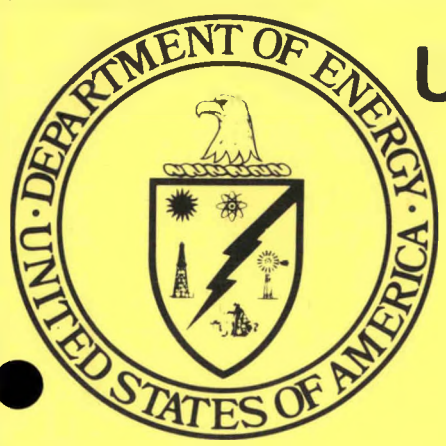
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Environmental Data for Sites in the National Solar Data Network

May, 1979



U.S. Department of Energy

National Solar Heating and
Cooling Demonstration Program

National Solar Data Program

**MAY 1979 ENVIRONMENTAL DATA
FOR SITES IN THE
NATIONAL SOLAR DATA NETWORK**

Prepared for

**U.S. Department of Energy
National Solar Heating and Cooling Demonstration Program
National Solar Data Program**

Under Contract EG-77-C-01-4049

by

**International Business Machines Corporation
Federal Systems Division
Command and Space Systems
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1. INTRODUCTION

A major goal of the National Solar Heating and Cooling Demonstration Program is to collect and analyze data which will be used to determine the thermal performance of selected solar energy systems. To meet the goals and objectives of the Demonstration Program, the National Solar Data Network (NSDN) has been developed for the Department of Energy by the Federal Systems Division of the International Business Machines Corporation. The network consists of sensors which measure key performance parameters at a selected site, a Site Data Acquisition System (SDAS), telephone transmission circuits and a Central Data Processing System (CDPS) which collects data and performs the computations required for system performance analysis. The output of the National Solar Data Network is a monthly performance report which defines the energy contribution of the solar energy system and resultant fossil fuel savings.

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 thirty-two seconds. Sensor data is collected and stored on a cassette tape in the SDAS. 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.

Certain environmental data is collected at every site in the National Solar Data Network. Since this data is available and proves useful in various studies and investigations, this report presents the climatic parameters in a format designed to supply the most frequently needed values. The data includes total solar insolation and outside ambient temperature for all sites. For some sites, diffuse solar insolation, wind speed/direction and relative humidity are obtained. The report data is organized by climatological zones as identified in the zone map, Figure 1.

2. REPORT CONTENT

This report contains a maximum of four pages of data for each NSDN site which was transmitting data at the time of publication. Each data page, to be described in subsequent paragraphs, is included only if the data was found to be valid during the reporting period. If a data column on an otherwise satisfactory page was found to be invalid or contain an instrumentation error, it has been noted on that page. An asterisk in a data column denotes data which is missing due to sensor failure, transmission problems or that the value was omitted because it was judged unreasonable or erroneous during raw data processing. The "NA" notation indicates that the parameter is not measured at that particular site.

Page one contains the temperature data most often required for solar energy system studies. Average temperature is tabulated over the entire twenty-four hour day. Daytime ambient temperature is tabulated over the

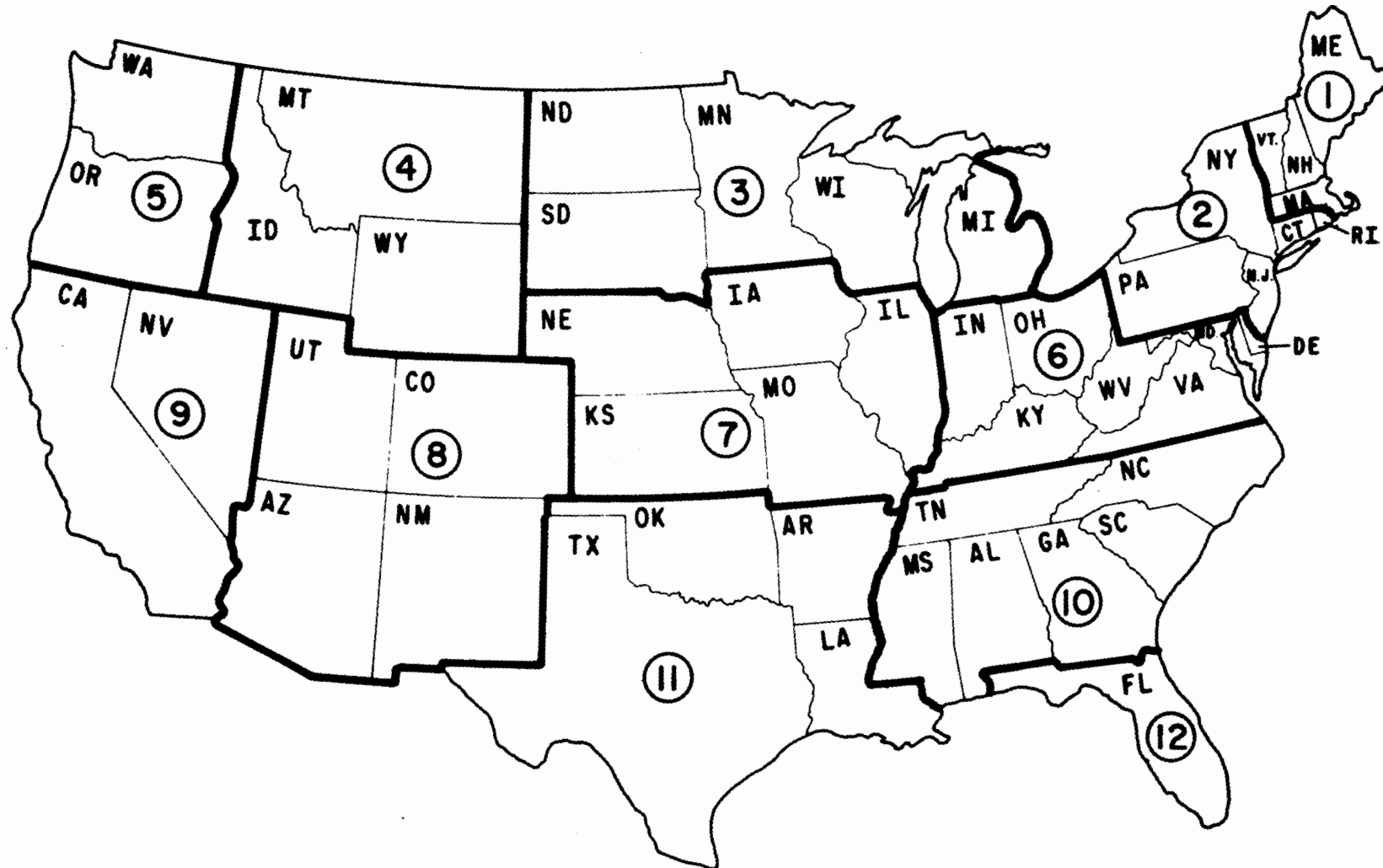


FIGURE I. SOLAR HEATING & COOLING PROJECT ZONES

period from thirty minutes prior to sunrise to thirty minutes after sunset. Nighttime ambient temperature is tabulated over the remainder of the twenty-four hour day. Maximum and minimum temperature values for the twenty-four hour period, with their corresponding time of occurrence, are also tabulated. The temperature of ground water, or city water supply, is frequently needed for design purposes and is included as an average for each day of the month. It should be noted that the inlet water temperature may, in some cases, exceed the ground water temperature due to the location of the sensor and temperature migration effects.

Page two of the report presents solar insolation data. Total insolation is given for each day of the month. Data substitution techniques are applied to this data so that a full complement of hourly values are not required to provide an average value for the day. For sites with concentrating collectors, both diffuse and direct insolation are tabulated. 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 are also given for each day of the month. Extraterrestrial radiation values are computed* for each site and are included so that the effects of cloud cover and local atmospheric conditions can be ascertained. A ratio of total insolation on a tilted surface to extraterrestrial radiation on a parallel surface is given in the last column of the insolation data sheet.

Wind data is presented for the sites where wind speed and direction are measured. The wind data is presented as averages of speed and direction for the twenty-four hour period, averages of speed and direction for the daytime values and maximum speed for the twenty-four hour period, with corresponding direction and time of occurrence of the maximum. Wind direction is expressed in common convention used by the weather service, where the angle or compass heading refers to the direction from which the wind is blowing. Thus, a tabular entry of 135° indicates that the wind is blowing from the southeast. Wind direction values are not listed if the wind speed was 2 MPH or less.

Relative humidity data, when available, is also presented in the report. Tabulation of the humidity data includes average values for the twenty-four hour period, daytime and nighttime averages and maximum and minimum values with time of occurrence.

3. SENSOR TECHNOLOGY

Ambient and inlet water temperatures are measured with a Minco Products S53P Resistance Temperature Detector (RTD). The sensor for ambient temperature is housed in a Weather Measure IS4 Radiation Shield and is so located as to provide a representative outdoor temperature. Care is taken to place the sensor away from man-made heat sources which could introduce measurement errors. The water temperature sensor is installed in a Minco F203 stainless steel thermowell which penetrates the water supply line to the approximate mid-point of the fluid stream.

* Computation method given in reference, "TRNSYS, A Transient Simulation Program," Engineering Experiment Station Report #38, Solar Energy Laboratory, University of Wisconsin, Madison.

Total solar insolation data is measured at each site with an Eppley Laboratories Model PSP precision pyranometer mounted in the plane of the collector array. The instruments are calibrated to the Absolute Scale. Diffuse insolation is measured by the addition of an identical instrument equipped with a "shadow band" to block out the direct beam radiation. The readings have not been corrected for sky radiation blocked by the band. Maladjustment of the shadow band may, in some cases, cause erroneous readings. Time are in local standard time.

Wind speed and direction are measured at selected sites where the wind can have significant effects on collector losses, as in the case with concentrating collectors. The instrument used for this measurement is a Model W101-P-DC/540 wind sensor, manufactured by the Weather Measure Corporation, mounted in close proximity to the collector array.

Relative humidity is measured with a Weather Measure Corporation Model HM-111P relative humidity sensor. This measurement is of particular importance in solar cooling systems.

4. REPORT PUBLICATION

This report represents the effort to provide NSDN weather data in a site summary format. It will be issued on a monthly basis and will include all sites which are transmitting valid data at the time of publication. The data in this report is also available on tape in the Solmet System.

5. PREVIOUS REPORTS

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

ZONE 1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: CONCORD LIGHT PLANT
CONCORD, MASSACHUSETTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 189

LATITUDE: 42.47 DEG NORTH
LONGITUDE: 71.35 DEG WEST

AZIMUTH: -14 DEG
PYRANOMETER TILT: 57 DEG

TIME ZONE: EASTERN
ALTITUDE: 125 FEET

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.	66.	48.	71.	14:26	43.	23:56	N.A.
2	49.	58.	43.	67.	17:14	39.	4:42	N.A.
3	54.	68.	45.	79.	13:57	35.	3:59	N.A.
4	58.	66.	55.	70.	10:38	52.	0: 2	N.A.
5	52.	56.	49.	64.	17:11	41.	23:57	N.A.
6	52.	59.	47.	72.	15:12	40.	0:18	N.A.
7	55.	61.	50.	67.	10:58	49.	3:48	N.A.
8	53.	65.	47.	70.	9:51	44.	3: 1	N.A.
9	*	*	*	*	*:*	*	*:*	N.A.
10	*	*	*	*	*:*	*	*:*	N.A.
11	*	*	*	*	*:*	*	*:*	N.A.
12	*	*	*	*	*:*	*	*:*	N.A.
13	65.	66.	65.	66.	7: 8	64.	6:42	N.A.
14	61.	62.	59.	65.	10:37	56.	23:15	N.A.
15	60.	63.	58.	67.	15:31	54.	4: 3	N.A.
16	71.	76.	59.	81.	15:56	56.	2:27	N.A.
17	63.	67.	51.	72.	13: 3	48.	22:59	N.A.
18	54.	56.	52.	61.	14:31	49.	0: 3	N.A.
19	52.	54.	51.	57.	14: 5	50.	21:51	N.A.
20	54.	57.	52.	60.	14:39	50.	0:20	N.A.
21	62.	68.	58.	82.	15:22	52.	1: 8	N.A.
22	64.	74.	56.	90.	15:14	47.	23:56	N.A.
23	55.	62.	50.	71.	10:38	42.	4:35	N.A.
24	52.	52.	52.	54.	1:39	50.	18:45	N.A.
25	54.	56.	52.	59.	13:53	50.	0:48	N.A.
26	55.	58.	52.	71.	17:59	49.	23:24	N.A.
27	61.	68.	54.	78.	15: 6	47.	4:28	N.A.
28	60.	61.	58.	66.	12:16	56.	5: 9	N.A.
29	65.	74.	57.	83.	13:34	51.	23:58	N.A.
30	57.	60.	54.	67.	16:53	50.	23:59	N.A.
31	64.	75.	55.	85.	16:32	47.	3:44	N.A.
MEAN	58.	63.	53.					N.A.
STANDARD DEVIATION	5.4	6.6	4.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: CONCORD LIGHT PLANT
CONCORD, MASSACHUSETTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 189

LATITUDE: 42.47 DEG NORTH
LONGITUDE: 71.35 DEG WEST

AZIMUTH: -14 DEG
PYRANOMETER TILT: 57 DEG

TIME ZONE: EASTERN
ALTITUDE: 125 FEET

INSOLATION

DAY	TOTAL	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	*	N.A.	N.A.	*	2777.	*
2	2312.	N.A.	N.A.	312.	2767.	84.
3	*	N.A.	N.A.	*	2752.	*
4	*	N.A.	N.A.	*	2742.	*
5	*	N.A.	N.A.	*	2730.	*
6	1833.	N.A.	N.A.	321.	2720.	67.
7	*	N.A.	N.A.	*	2708.	*
8	*	N.A.	N.A.	*	2696.	*
9	*	N.A.	N.A.	*	2684.	*
10	*	N.A.	N.A.	*	2675.	*
11	*	N.A.	N.A.	*	2664.	*
12	*	N.A.	N.A.	*	2655.	*
13	*	N.A.	N.A.	*	2644.	*
14	227.	N.A.	N.A.	62.	2630.	9.
15	336.	N.A.	N.A.	93.	2622.	13.
16	*	N.A.	N.A.	*	2612.	*
17	1670.	N.A.	N.A.	302.	2604.	64.
18	422.	N.A.	N.A.	115.	2594.	16.
19	405.	N.A.	N.A.	84.	2584.	16.
20	475.	N.A.	N.A.	103.	2574.	18.
21	751.	N.A.	N.A.	271.	2565.	29.
22	1992.	N.A.	N.A.	324.	2558.	78.
23	609.	N.A.	N.A.	196.	2549.	24.
24	143.	N.A.	N.A.	37.	2541.	6.
25	270.	N.A.	N.A.	78.	2535.	11.
26	493.	N.A.	N.A.	118.	2524.	20.
27	1796.	N.A.	N.A.	308.	2516.	71.
28	299.	N.A.	N.A.	103.	2511.	12.
29	1649.	N.A.	N.A.	312.	2504.	66.
30	371.	N.A.	N.A.	112.	2496.	15.
31	1981.	N.A.	N.A.	299.	2492.	80.
MEAN	949.	N.A.	N.A.		2620.	
STANDARD DEVIATION	762.	N.A.	N.A.		88.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: GREENCROSS
WAITSFIELD, VERMONT

REPORT PERIOD: 7/ 5
SITE NUMBER: 52

LATITUDE: 44.00 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 73.00 DEG WEST PYRANOMETER TILT: 85 DEG
TIME ZONE: EASTERN ALTITUDE: 330 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME FR:MN	VALUE	TIME FR:MN	
1	45.	49.	42.	57.	13:14	38.	4:26	
2	45.	50.	42.	56.	15:10	34.	23:58	
3	47.	55.	41.	63.	12:32	30.	4: 6	
4	50.	53.	48.	58.	11:14	43.	23:52	
5	39.	41.	39.	47.	15: 9	32.	21:39	
6	44.	52.	38.	57.	13:33	28.	4:56	
7	49.	60.	42.	67.	14:19	28.	4: 0	
8	64.	74.	57.	83.	18:28	37.	4:28	
9	79.	86.	74.	91.	13:17	67.	4:39	
10	70.	73.	67.	78.	14:21	53.	23:56	
11	60.	65.	57.	75.	13:42	47.	3:45	
12	62.	66.	59.	74.	13:26	55.	3:56	
13	61.	66.	56.	72.	12:37	55.	4:16	
14	58.	62.	55.	69.	15:25	48.	23: 3	
15	62.	72.	56.	79.	14:36	46.	4:54	
16	56.	61.	52.	65.	12:57	44.	23:58	
17	52.	60.	48.	72.	17:25	35.	4:29	
18	58.	67.	52.	71.	13:56	39.	4:44	
19	61.	65.	58.	71.	14:37	55.	3:56	
20	60.	64.	58.	72.	14:32	54.	3:36	
21	61.	69.	55.	76.	13:30	45.	23:59	
22	50.	55.	46.	63.	17: 8	36.	23:59	
23	54.	63.	46.	67.	6:58	36.	0:20	
24	53.	54.	52.	56.	9:10	50.	23:16	
25	50.	52.	50.	54.	12:15	49.	3:43	
26	*	*	*	*	*:*	*	*:*	
27	*	*	*	*	*:*	*	*:*	
28	*	*	*	*	*:*	*	*:*	
29	58.	61.	56.	68.	14:15	52.	7:44	
30	54.	56.	52.	61.	17:14	47.	21: 8	
31	60.	66.	56.	72.	14:38	49.	1: 3	
MEAN	56.	61.	52.					
STANDARD DEVIATION	8.4	9.3	8.4					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: GREENMCSS
WAITSFIELD, VERMONT

REPORT PERIOD: 79/ 5
SITE NUMBER: 53

LATITUDE: 44.00 DEG NORTH
LONGITUDE: 73.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 65 DEG

TIME ZONE: EASTERN
ALTITUDE: 330 FEET

INSCLATIGN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATIGN BTU/FT2	TOTAL DIR INSCLATIGN BTU/FT2	MAXIMUM TOTAL INSCLATIGN VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	365.	N.A.	N.A.	159.	11:17	1377.	27.
2	916.	N.A.	N.A.	153.	11:31	1356.	68.
3	424.	N.A.	N.A.	153.	10:46	1338.	32.
4	313.	N.A.	N.A.	138.	10:32	1318.	24.
5	244.	N.A.	N.A.	66.	12:29	1299.	19.
6	867.	N.A.	N.A.	144.	11:25	1282.	68.
7	831.	N.A.	N.A.	138.	11:34	1264.	66.
8	835.	N.A.	N.A.	132.	11:11	1246.	67.
9	786.	N.A.	N.A.	141.	10:53	1228.	64.
10	454.	N.A.	N.A.	135.	12:18	1213.	37.
11	301.	N.A.	N.A.	108.	13:26	1196.	25.
12	386.	N.A.	N.A.	102.	13:41	1179.	33.
13	135.	N.A.	N.A.	72.	12:37	1163.	12.
14	524.	N.A.	N.A.	165.	11:35	1148.	46.
15	777.	N.A.	N.A.	144.	12:38	1134.	68.
16	489.	N.A.	N.A.	144.	10:54	1119.	44.
17	632.	N.A.	N.A.	156.	11:47	1105.	57.
18	569.	N.A.	N.A.	108.	10:52	1091.	52.
19	297.	N.A.	N.A.	96.	13: 1	1078.	28.
20	381.	N.A.	N.A.	105.	13:28	1065.	36.
21	395.	N.A.	N.A.	147.	12:10	1052.	38.
22	589.	N.A.	N.A.	132.	11:48	1040.	57.
23	401.	N.A.	N.A.	132.	9:58	1028.	39.
24	23.	N.A.	N.A.	12.	12:58	1016.	2.
25	*	N.A.	N.A.	*	*:*	1006.	*
26	*	N.A.	N.A.	*	*:*	995.	*
27	*	N.A.	N.A.	*	*:*	985.	*
28	*	N.A.	N.A.	*	*:*	975.	*
29	381.	N.A.	N.A.	120.	10:31	965.	39.
30	76.	N.A.	N.A.	45.	15:43	956.	8.
31	539.	N.A.	N.A.	117.	10:16	948.	57.
MEAN	479.	N.A.	N.A.			1134.	
STANDARD DEVIATION	242.	N.A.	N.A.			131.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: JOSEPH REAL ESTATE
WEST SPRINGFIELD, MASSACHUSETTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 155

LATITUDE: 42.27 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.53 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 986 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.	60.	47.	65.	12:26	42.	23:49	60.
2	52.	58.	46.	65.	14: 9	39.	3:45	71.
3	55.	62.	49.	67.	11:49	41.	4: 0	55.
4	55.	59.	51.	64.	12:49	49.	23: 8	58.
5	48.	50.	47.	56.	16:27	43.	4:28	57.
6	48.	54.	44.	59.	9:57	43.	3:28	56.
7	*	*	*	*	*:*	*	*:*	*
8	71.	78.	63.	83.	13:37	58.	23:51	58.
9	75.	84.	66.	94.	14: 7	54.	3:38	60.
10	79.	88.	72.	94.	14:20	64.	4:11	64.
11	69.	76.	62.	84.	14:32	52.	23:52	66.
12	59.	62.	57.	65.	10:26	53.	0: 2	62.
13	62.	63.	60.	65.	12:26	58.	4: 9	60.
14	56.	57.	55.	61.	11:20	53.	22:23	60.
15	61.	66.	56.	75.	14:16	51.	3:27	63.
16	61.	67.	56.	73.	13:23	51.	23:31	59.
17	59.	65.	52.	73.	15:49	48.	2:48	58.
18	56.	59.	54.	67.	14:13	47.	1:53	61.
19	57.	62.	53.	69.	11:23	52.	22:11	61.
20	57.	59.	55.	65.	14:11	50.	3:26	64.
21	64.	69.	60.	76.	13:34	56.	2:59	68.
22	62.	69.	55.	79.	13:51	48.	23:59	60.
23	54.	57.	51.	62.	10:21	43.	3:14	60.
24	53.	53.	52.	54.	0: 2	51.	20:17	61.
25	58.	59.	56.	64.	15:25	51.	0:49	60.
26	59.	64.	54.	72.	10:58	49.	22:10	65.
27	58.	62.	54.	67.	12:57	47.	3:25	66.
28	60.	63.	57.	72.	11:15	56.	19:59	66.
29	61.	67.	55.	77.	11:35	52.	4:34	63.
30	58.	62.	54.	72.	14:22	51.	23:59	60.
31	64.	73.	56.	80.	15:25	46.	3:41	59.
MEAN	60.	64.	55.					61.
STANDARD DEVIATION	7.0	8.6	5.8					3.6

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: JOSEPH REAL ESTATE
WEST SPRINGFIELD, MASSACHUSETTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 155

LATITUDE: 42.27 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 71.53 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 986 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	1958.	N.A.	N.A.	297.	11:38	3101.	63.
2	2044.	N.A.	N.A.	300.	11:13	3094.	66.
3	784.	N.A.	N.A.	212.	9: 4	3086.	25.
4	1678.	N.A.	N.A.	297.	12:17	3079.	54.
5	*	N.A.	N.A.	*	*:*	3071.	*
6	*	N.A.	N.A.	*	*:*	3064.	*
7	*	N.A.	N.A.	*	*:*	3056.	*
8	*	N.A.	N.A.	*	*:*	3049.	*
9	1624.	N.A.	N.A.	260.	11:38	3042.	53.
10	1597.	N.A.	N.A.	283.	10:56	3034.	53.
11	1780.	N.A.	N.A.	263.	11:25	3027.	59.
12	164.	N.A.	N.A.	45.	9:28	3020.	5.
13	102.	N.A.	N.A.	54.	9:57	3016.	3.
14	191.	N.A.	N.A.	57.	10:21	3009.	6.
15	1072.	N.A.	N.A.	212.	13:12	3002.	36.
16	1580.	N.A.	N.A.	297.	11:10	2995.	53.
17	1435.	N.A.	N.A.	283.	11:49	2989.	48.
18	309.	N.A.	N.A.	223.	14: 8	2982.	10.
19	544.	N.A.	N.A.	206.	11:17	2976.	18.
20	347.	N.A.	N.A.	122.	13:18	2969.	12.
21	899.	N.A.	N.A.	294.	11:42	2963.	30.
22	1733.	N.A.	N.A.	305.	11:11	2957.	59.
23	161.	N.A.	N.A.	82.	10:10	2951.	5.
24	3.	N.A.	N.A.	11.	10:21	2945.	0.
25	26.	N.A.	N.A.	31.	10:48	2940.	1.
26	1210.	N.A.	N.A.	283.	11:30	2937.	41.
27	918.	N.A.	N.A.	260.	9:45	2932.	31.
28	657.	N.A.	N.A.	218.	12:47	2927.	22.
29	1123.	N.A.	N.A.	303.	11:35	2922.	38.
30	931.	N.A.	N.A.	289.	11:53	2917.	32.
31	1822.	N.A.	N.A.	272.	11:19	2912.	63.
MEAN	989.	N.A.	N.A.			2999.	
STANDARD DEVIATION	672.	N.A.	N.A.			58.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: KALWALL
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 79/ 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	61.	68.	52.	75.	11: 6	43.	23:49	N.A.
2	54.	63.	48.	70.	13:43	38.	2:58	N.A.
3	55.	67.	47.	76.	12:31	34.	3:59	N.A.
4	61.	69.	56.	75.	11:57	52.	0: 4	N.A.
5	54.	59.	50.	64.	12: 2	43.	23:26	N.A.
6	55.	64.	48.	69.	14:44	40.	4: 4	N.A.
7	59.	72.	51.	78.	12:27	36.	4:22	N.A.
8	63.	75.	55.	81.	15:26	42.	3:50	N.A.
9	79.	91.	70.	98.	10:40	52.	4:26	N.A.
10	82.	92.	76.	98.	13:10	65.	5: 5	N.A.
11	65.	71.	61.	77.	11:32	54.	23:11	N.A.
12	58.	63.	56.	67.	11:16	51.	5: 3	N.A.
13	64.	68.	61.	74.	13:11	54.	1:43	N.A.
14	62.	63.	61.	65.	9:57	56.	23:33	N.A.
15	60.	61.	59.	64.	16:53	55.	4:31	N.A.
16	66.	73.	62.	81.	15:12	55.	23:55	N.A.
17	62.	72.	55.	80.	13:23	49.	4:19	N.A.
18	55.	58.	54.	61.	15:54	49.	0:16	N.A.
19	55.	58.	52.	63.	12:49	52.	2:56	N.A.
20	57.	59.	55.	64.	16:27	51.	3:23	N.A.
21	63.	65.	61.	73.	14:59	56.	1:44	N.A.
22	65.	75.	59.	75.	14:10	49.	4:23	N.A.
23	57.	65.	52.	72.	10:31	43.	4:23	N.A.
24	53.	54.	53.	55.	8:44	52.	15:48	N.A.
25	55.	56.	55.	58.	16:27	52.	23:50	N.A.
26	52.	53.	51.	56.	14:40	48.	23:44	N.A.
27	60.	67.	56.	71.	12:11	48.	3:39	N.A.
28	60.	63.	59.	69.	12:58	56.	6:29	N.A.
29	66.	76.	61.	81.	12:15	54.	23:32	N.A.
30	58.	59.	56.	65.	11:55	54.	1:52	N.A.
31	68.	79.	61.	86.	13: 7	48.	4: 8	N.A.
MEAN	61.	67.	57.					N.A.
STANDARD DEVIATION	6.8	9.4	6.2					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: KALWALL
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 79/ 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

INSCLATICA

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATICA BTU/FT2	TOTAL DIR INSCLATICA BTU/FT2	MAXIMUM TOTAL INSCLATICA VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	797.	N.A.	N.A.	184.	11:17	1325.	60.
2	1085.	N.A.	N.A.	180.	11:46	1306.	83.
3	859.	N.A.	N.A.	190.	12:15	1286.	67.
4	636.	N.A.	N.A.	132.	9:38	1266.	50.
5	860.	N.A.	N.A.	200.	11:57	1248.	69.
6	940.	N.A.	N.A.	193.	11: 0	1230.	76.
7	930.	N.A.	N.A.	168.	11:39	1211.	77.
8	942.	N.A.	N.A.	158.	12: 1	1195.	79.
9	890.	N.A.	N.A.	174.	11:44	1177.	76.
10	824.	N.A.	N.A.	164.	12:17	1161.	71.
11	703.	N.A.	N.A.	161.	11:16	1144.	61.
12	243.	N.A.	N.A.	61.	10:44	1128.	22.
13	281.	N.A.	N.A.	110.	9:54	1112.	25.
14	193.	N.A.	N.A.	35.	9:41	1096.	18.
15	161.	N.A.	N.A.	32.	10: 7	1083.	15.
16	638.	N.A.	N.A.	110.	11:33	1068.	60.
17	720.	N.A.	N.A.	158.	11:15	1053.	68.
18	178.	N.A.	N.A.	32.	9:30	1039.	17.
19	256.	N.A.	N.A.	61.	12:49	1026.	25.
20	229.	N.A.	N.A.	42.	12:42	1014.	23.
21	378.	N.A.	N.A.	84.	14:16	1000.	38.
22	650.	N.A.	N.A.	155.	11:35	988.	66.
23	341.	N.A.	N.A.	110.	10:26	977.	35.
24	90.	N.A.	N.A.	16.	12:46	965.	9.
25	128.	N.A.	N.A.	32.	10:14	954.	13.
26	153.	N.A.	N.A.	32.	14:19	943.	16.
27	590.	N.A.	N.A.	155.	12:11	933.	63.
28	250.	N.A.	N.A.	84.	12:53	924.	27.
29	622.	N.A.	N.A.	155.	11:21	914.	68.
30	195.	N.A.	N.A.	57.	15: 7	906.	22.
31	497.	N.A.	N.A.	90.	11:42	896.	56.
MEAN	525.	N.A.	N.A.			1083.	
STANDARD DEVIATION	309.	N.A.	N.A.			131.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: KALWALL
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 79/ 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	121.	6.	119.	6.	13.	156.	20:58
2	126.	5.	128.	8.	13.	126.	16:44
3	*	1.	*	2.	6.	*	16: 9
4	121.	3.	123.	6.	11.	128.	9:17
5	131.	6.	129.	10.	16.	222.	9: 1
6	123.	3.	123.	6.	12.	124.	15:37
7	124.	2.	124.	5.	10.	96.	14: 9
8	*	1.	*	2.	5.	*	12:22
9	95.	4.	96.	7.	15.	119.	15: 1
10	129.	3.	128.	6.	11.	103.	9:58
11	*	1.	*	2.	5.	*	7:54
12	*	1.	*	1.	4.	*	17:32
13	*	1.	*	1.	4.	*	13:43
14	*	1.	*	1.	4.	*	13:57
15	*	0.	*	0.	2.	*	19:49
16	121.	3.	115.	5.	9.	133.	12:21
17	*	2.	*	2.	5.	*	11:36
18	*	2.	*	2.	6.	*	19:28
19	*	2.	*	2.	5.	*	14:46
20	*	1.	*	1.	4.	*	2:46
21	*	1.	*	1.	6.	*	21:17
22	139.	3.	138.	5.	10.	107.	9:49
23	*	1.	*	2.	5.	*	11:57
24	*	1.	*	1.	5.	*	16: 0
25	215.	3.	215.	2.	9.	210.	4:59
26	210.	2.	216.	3.	9.	185.	6:14
27	29.	3.	40.	6.	10.	106.	11:44
28	*	2.	*	3.	7.	*	16:37
29	*	2.	*	3.	7.	*	12:47
30	*	1.	*	1.	6.	*	14:51
31	109.	4.	109.	7.	12.	87.	7:47
MEAN	128.	2.	125.	4.			
STANDARD DEVIATION	44.7	1.5	44.4	2.6			

ENVIRONMENTAL SUMMARY REPORT

SITE: KALWALL
MANCHESTER, NEW HAMPSHIRE

REPORT PERIOD: 79/ 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	7	8	5	0	0	0	0	0	4
2	12	7	5	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	15	7	2	0	0	0	0	0	0
5	12	2	10	0	0	0	0	0	0
6	14	9	1	0	0	0	0	0	0
7	16	8	0	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	13	4	7	0	0	0	0	0	0
10	16	6	0	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	24	0	0	0	0	0	0	0	0
16	17	7	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	24	0	0	0	0	0	0	0	0
21	21	3	0	0	0	0	0	0	0
22	16	8	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	23	1	0	0	0	0	0	0	0
26	21	3	0	0	0	0	0	0	0
27	15	5	0	0	0	0	0	0	0
28	21	3	0	0	0	0	0	0	0
29	22	2	0	0	0	0	0	0	0
30	24	0	0	0	0	0	0	0	0
31	12	10	1	0	0	0	0	0	1
AVERAGE	19.6	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.2
TOTAL	609	99	31	0	0	0	0	0	5

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SADDLE HILL #36
NEECHAM, MASSACHUSETTS

REPORT PERIOD: 7/ 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

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME FR:MN	VALUE	TIME FR:MN	
1	57.	65.	50.	71.	14:14	43.	23:56	66.
2	52.	58.	47.	71.	16:39	38.	4:55	68.
3	55.	64.	47.	60.	12:12	35.	4:44	65.
4	61.	67.	56.	75.	15:46	51.	0:7	63.
5	54.	57.	51.	66.	15:52	44.	23:53	67.
6	53.	57.	49.	67.	15:5	41.	4:57	65.
7	62.	69.	55.	68.	16:37	49.	5:20	67.
8	67.	77.	59.	93.	13:36	46.	4:26	69.
9	77.	85.	69.	56.	15:32	59.	4:9	72.
10	81.	88.	74.	98.	16:42	68.	3:49	74.
11	69.	77.	62.	67.	14:16	52.	23:36	73.
12	62.	69.	56.	76.	13:7	47.	3:25	74.
13	63.	66.	61.	71.	13:33	58.	0:18	73.
14	61.	62.	59.	67.	10:22	57.	22:48	68.
15	60.	62.	59.	68.	16:44	56.	5:50	66.
16	66.	70.	60.	78.	16:23	56.	1:48	66.
17	60.	67.	54.	76.	13:0	49.	4:44	65.
18	58.	63.	52.	81.	15:37	51.	0:2	65.
19	53.	56.	51.	60.	11:59	50.	22:56	64.
20	56.	56.	52.	61.	15:37	49.	0:59	64.
21	66.	72.	60.	65.	14:38	53.	2:49	65.
22	65.	73.	58.	90.	15:20	49.	23:57	67.
23	56.	62.	51.	67.	11:36	44.	4:24	66.
24	52.	53.	52.	54.	11:3	50.	23:19	64.
25	56.	58.	54.	67.	13:57	50.	1:22	66.
26	57.	61.	54.	80.	14:56	49.	5:57	66.
27	60.	66.	58.	75.	16:6	47.	4:10	67.
28	59.	60.	58.	63.	11:34	57.	20:59	68.
29	68.	74.	61.	88.	13:20	53.	23:22	65.
30	58.	60.	55.	65.	12:36	51.	23:44	68.
31	68.	73.	61.	82.	15:29	51.	1:26	66.
MEAN	61.	66.	56.					67.
STANDARD DEVIATION	6.9	8.4	6.0					3.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: SADDLE HILL #36
NEECHAM, MASSACHUSETTS

RECFRT PERIOD: 79/ 5
SITE NUMBER: 83

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

INSCLATICN

DAY	TOTAL INSCLATICN BTU/FT2	TCTAL DIFF INSCLATICN BTU/FT2	TCTAL DIR INSCLATICN BTU/FT2	MAXIMUM TCTAL INSOLATION VALUE ETU/HR/FT2	TCTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1662.	N.A.	N.A.	285.	12: 1	2687.	62.
2	2039.	N.A.	N.A.	288.	11:40	2673.	76.
3	1560.	N.A.	N.A.	298.	11:24	2660.	59.
4	1477.	N.A.	N.A.	285.	10:26	2649.	56.
5	2085.	N.A.	N.A.	288.	11:42	2635.	79.
6	1654.	N.A.	N.A.	310.	11:53	2625.	63.
7	1930.	N.A.	N.A.	276.	11:33	2611.	74.
8	1849.	N.A.	N.A.	260.	11: 1	2599.	71.
9	1759.	N.A.	N.A.	257.	10:55	2588.	68.
10	1676.	N.A.	N.A.	273.	12: 5	2576.	65.
11	1784.	N.A.	N.A.	260.	11: 4	2563.	70.
12	668.	N.A.	N.A.	172.	12:51	2551.	26.
13	418.	N.A.	N.A.	107.	11:25	2542.	16.
14	284.	N.A.	N.A.	72.	10:16	2530.	11.
15	296.	N.A.	N.A.	63.	16: 1	2521.	12.
16	1355.	N.A.	N.A.	232.	12: 1	2510.	54.
17	1445.	N.A.	N.A.	279.	10:52	2499.	58.
18	666.	N.A.	N.A.	169.	15: 5	2488.	27.
19	378.	N.A.	N.A.	88.	11:59	2480.	15.
20	407.	N.A.	N.A.	63.	10:27	2470.	16.
21	957.	N.A.	N.A.	232.	13:34	2459.	39.
22	1861.	N.A.	N.A.	273.	10:27	2450.	76.
23	409.	N.A.	N.A.	141.	7:52	2443.	17.
24	171.	N.A.	N.A.	47.	13:59	2433.	7.
25	353.	N.A.	N.A.	100.	12:10	2424.	15.
26	658.	N.A.	N.A.	182.	14:34	2418.	27.
27	1602.	N.A.	N.A.	266.	11:28	2409.	67.
28	319.	N.A.	N.A.	85.	11:12	2401.	13.
29	1765.	N.A.	N.A.	282.	11:28	2393.	74.
30	314.	N.A.	N.A.	119.	12:38	2386.	13.
31	2000.	N.A.	N.A.	257.	11: 7	2381.	84.
MEAN	1155.	N.A.	N.A.			2518.	
STANDARD DEVIATION	683.	N.A.	N.A.			94.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SADDLE HILL #73
NEECHAM, MASSACHUSETTS

REPORT PERIOD: 79/ 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	58.	70.	46.	80.	10:58	39.	4:34	63.
2	54.	66.	43.	74.	11:51	36.	4:27	62.
3	56.	67.	45.	81.	11:36	32.	4:24	64.
4	65.	74.	56.	85.	10:33	51.	0: 8	64.
5	57.	64.	50.	70.	10:33	41.	23:42	63.
6	56.	64.	48.	77.	10:12	40.	4:30	64.
7	62.	71.	52.	82.	14:32	46.	23:59	66.
8	65.	75.	56.	86.	12:10	42.	4:47	66.
9	81.	93.	69.			58.	4:34	70.
10	85.	97.	73.			67.	4: 2	71.
11	64.	69.	60.	74.	11:39	49.	23:49	67.
12	60.	65.	54.	75.	13: 9	45.	4: 5	68.
13	63.	66.	61.	71.	12:14	58.	0:20	68.
14	62.	64.	60.	68.	12: 2	58.	22:58	68.
15	61.	62.	59.	68.	15:59	57.	6:31	67.
16	66.	75.	58.	81.	11:48	53.	3:48	68.
17	57.	63.	52.	72.	9:51	48.	22:39	67.
18	55.	58.	52.	63.	14:52	50.	22:57	66.
19	52.	53.	51.	55.	12: 1	49.	21:55	67.
20	54.	55.	52.	58.	15:31	50.	0: 3	67.
21	61.	65.	58.	77.	15: 9	52.	5: 1	67.
22	68.	79.	56.	85.	11: 0	46.	23:59	68.
23	55.	60.	50.	66.	5: 6	41.	4: 8	67.
24	52.	52.	52.	53.	1:12	50.	23:22	66.
25	56.	59.	54.	68.	14: 3	50.	2:35	66.
26	55.	58.	53.	70.	15:23	49.	5:52	66.
27	63.	71.	55.	77.	10:13	47.	4:16	66.
28	59.	59.	58.	62.	9:30	57.	6: 8	67.
29	67.	78.	57.	85.	11:25	51.	23:14	68.
30	57.	60.	55.	66.	12:39	49.	23:51	67.
31	68.	80.	57.	86.	10: 3	48.	3: 2	67.
MEAN	61.	67.	55.					67.
STANDARD DEVIATION	7.5	10.4	6.2					2.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: SADDLE HILL #73
NEECHAM, MASSACHUSETTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 84

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

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION ETU/FT2	MAXIMUM TOTAL INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS EXT INS PERCENT
1	1925.	N.A.	N.A.	320.	12: 2	3094.	62.
2	2327.	N.A.	N.A.	320.	12: 2	3086.	75.
3	1645.	N.A.	N.A.	335.	11:36	3078.	53.
4	1632.	N.A.	N.A.	323.	11:53	3071.	53.
5	2358.	N.A.	N.A.	323.	11:37	3063.	77.
6	1827.	N.A.	N.A.	350.	11:42	3055.	60.
7	2205.	N.A.	N.A.	311.	11:42	3051.	72.
8	2105.	N.A.	N.A.	290.	11:27	3043.	69.
9	1978.	N.A.	N.A.	290.	11:30	3036.	65.
10	1909.	N.A.	N.A.	296.	11: 3	3028.	63.
11	2049.	N.A.	N.A.	293.	11:44	3021.	66.
12	756.	N.A.	N.A.	202.	12:48	3014.	25.
13	449.	N.A.	N.A.	118.	11:26	3006.	15.
14	312.	N.A.	N.A.	78.	10:20	2999.	10.
15	315.	N.A.	N.A.	72.	15:55	2992.	11.
16	1446.	N.A.	N.A.	305.	13:51	2986.	46.
17	1609.	N.A.	N.A.	287.	10:34	2979.	54.
18	744.	N.A.	N.A.	232.	14:41	2975.	25.
19	425.	N.A.	N.A.	87.	12: 1	2968.	14.
20	424.	N.A.	N.A.	78.	12:19	2962.	14.
21	953.	N.A.	N.A.	287.	13:33	2956.	32.
22	2147.	N.A.	N.A.	314.	11:27	2950.	73.
23	436.	N.A.	N.A.	151.	7:52	2944.	15.
24	179.	N.A.	N.A.	45.	12:42	2938.	6.
25	368.	N.A.	N.A.	118.	12:43	2932.	13.
26	829.	N.A.	N.A.	235.	14:24	2927.	28.
27	1821.	N.A.	N.A.	320.	11:44	2921.	62.
28	354.	N.A.	N.A.	103.	9:30	2916.	12.
29	1786.	N.A.	N.A.	311.	11:14	2911.	61.
30	358.	N.A.	N.A.	160.	10:20	2906.	12.
31	2190.	N.A.	N.A.	299.	12:16	2901.	75.
MEAN	1287.	N.A.	N.A.			2991.	
STANDARD DEVIATION	771.	N.A.	N.A.			59.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SADDLE HILL #77
NEEDHAM, MASSACHUSETTS

REPORT PERIOD: 79/ 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	57.	66.	46.	73.	14:15	39.	4:55	62.
2	52.	60.	44.	74.	15:45	37.	23:54	62.
3	54.	63.	44.	80.	12:44	32.	4:39	61.
4	63.	68.	57.	75.	15:27	53.	0: 1	62.
5	55.	58.	51.	66.	16: 5	42.	23:42	66.
6	54.	59.	49.	69.	13: 2	40.	4:57	71.
7	62.	70.	53.	85.	16:22	46.	23:55	80.
8	67.	77.	57.	94.	13:14	42.	5: 3	66.
9	79.	86.	71.	97.	15:39	61.	4:32	66.
10	82.	90.	74.	99.	15:47	69.	1:31	69.
11	65.	78.	60.	90.	14:47	50.	23:19	71.
12	60.	67.	52.	77.	11:30	45.	4: 2	66.
13	64.	66.	62.	71.	13:42	59.	0: 6	66.
14	62.	64.	61.	69.	10:19	59.	22:56	66.
15	62.	64.	60.	71.	16:47	58.	5:47	65.
16	66.	71.	60.	81.	14: 3	55.	4:33	65.
17	61.	68.	53.	77.	10:52	48.	22:41	68.
18	59.	64.	53.	82.	15:45	52.	0: 1	65.
19	54.	57.	52.	62.	12: 4	51.	23:16	63.
20	56.	59.	54.	63.	15:22	51.	0:14	62.
21	64.	68.	59.	82.	15: 3	53.	4:17	64.
22	65.	74.	56.	96.	15:22	46.	23:50	68.
23	56.	62.	50.	69.	11:38	41.	4:15	63.
24	54.	55.	52.	56.	11: 0	52.	22:31	63.
25	58.	60.	55.	70.	14: 1	51.	1:38	62.
26	58.	62.	54.	85.	14:44	51.	22:44	63.
27	60.	66.	55.	74.	15:37	47.	4:25	62.
28	60.	61.	59.	63.	9:50	58.	21: 8	64.
29	65.	72.	57.	83.	13: 2	51.	23:31	67.
30	59.	62.	55.	69.	13: 6	50.	23:46	64.
31	66.	74.	58.	85.	15:56	51.	0: 2	68.
MEAN	61.	67.	56.					65.
STANDARD DEVIATION	6.7	8.2	6.3					3.7

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: SADDLE HILL #77
NEEDHAM, MASSACHUSETTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 85

LATITUDE: 42.00 DEG NORTH
LONGITUDE: 71.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 38 DEG

TIME ZONE: EASTERN
ALTITUDE: 200 FEET

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSCLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1936.	N.A.	N.A.	325.	11:45	3255.	59.
2	2368.	N.A.	N.A.	328.	11:44	3251.	73.
3	1721.	N.A.	N.A.	350.	11:35	3247.	53.
4	1667.	N.A.	N.A.	328.	10:27	3243.	51.
5	2431.	N.A.	N.A.	337.	11:31	3239.	75.
6	1888.	N.A.	N.A.	350.	11:37	3235.	58.
7	2251.	N.A.	N.A.	316.	11:12	3228.	70.
8	2187.	N.A.	N.A.	301.	11: 1	3223.	68.
9	2067.	N.A.	N.A.	298.	11: 1	3219.	64.
10	1985.	N.A.	N.A.	310.	10:59	3215.	62.
11	2163.	N.A.	N.A.	301.	10:53	3211.	67.
12	855.	N.A.	N.A.	195.	12:50	3207.	27.
13	423.	N.A.	N.A.	122.	11:23	3203.	13.
14	267.	N.A.	N.A.	82.	10:19	3199.	8.
15	278.	N.A.	N.A.	73.	16: 4	3192.	9.
16	1454.	N.A.	N.A.	289.	13:53	3187.	46.
17	1715.	N.A.	N.A.	328.	10:52	3183.	54.
18	720.	N.A.	N.A.	222.	14:39	3179.	23.
19	391.	N.A.	N.A.	91.	11:59	3176.	12.
20	392.	N.A.	N.A.	79.	12:21	3172.	12.
21	538.	N.A.	N.A.	295.	13:37	3168.	30.
22	2258.	N.A.	N.A.	322.	11: 2	3164.	71.
23	412.	N.A.	N.A.	158.	7:54	3160.	13.
24	131.	N.A.	N.A.	43.	12:39	3157.	4.
25	353.	N.A.	N.A.	128.	12:41	3153.	11.
26	814.	N.A.	N.A.	252.	14:33	3150.	26.
27	1928.	N.A.	N.A.	337.	11:32	3146.	61.
28	319.	N.A.	N.A.	109.	9:29	3143.	10.
29	1896.	N.A.	N.A.	331.	11:15	3140.	60.
30	329.	N.A.	N.A.	170.	12:39	3136.	10.
31	2311.	N.A.	N.A.	313.	11:24	3133.	74.
MEAN	1318.	N.A.	N.A.			3191.	
STANDARD DEVIATION	821.	N.A.	N.A.			38.	

ZONE 2

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: BELL OF PENNSYLVANIA
WEST CHESTER, PENNSYLVANIA

REPORT PERIOD: 79/ 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 FR:MN	VALUE	TIME FR:MN	
1	57.	59.	55.	64.	15:51	52.	23:57	N.A.
2	57.	60.	55.	73.	16:54	44.	5: 4	N.A.
3	63.	67.	59.	73.	12:38	52.	4: 6	N.A.
4	61.	64.	58.	67.	14:54	52.	23: 5	N.A.
5	56.	58.	55.	73.	17:35	48.	6:22	N.A.
6	60.	64.	57.	74.	16:41	49.	5:35	N.A.
7	68.	72.	64.	65.	16:36	54.	4:30	N.A.
8	73.	77.	69.	89.	16:31	59.	5:13	N.A.
9	76.	80.	72.	90.	16:57	65.	5:19	N.A.
10	75.	80.	72.	87.	16: 2	65.	4:50	N.A.
11	74.	79.	70.	64.	14:21	65.	23:57	N.A.
12	65.	66.	64.	68.	14:49	61.	5:39	N.A.
13	67.	69.	66.	71.	11:26	65.	0:41	N.A.
14	60.	60.	60.	65.	0:25	56.	23:52	N.A.
15	63.	66.	60.	80.	17:15	53.	3:33	N.A.
16	64.	66.	61.	70.	17:29	55.	23:53	N.A.
17	61.	65.	58.	76.	17:35	49.	5: 3	N.A.
18	58.	59.	57.	63.	9:27	53.	2:47	N.A.
19	60.	61.	59.	64.	17:12	57.	23:47	N.A.
20	62.	64.	60.	76.	16:51	56.	3:41	N.A.
21	63.	64.	61.	68.	14:30	58.	6: 3	N.A.
22	67.	69.	64.	60.	17:55	60.	6:32	N.A.
23	67.	70.	65.	65.	18:13	60.	5:20	N.A.
24	66.	71.	65.	75.	12:36	62.	1:25	N.A.
25	67.	71.	62.	77.	16: 1	57.	23:29	N.A.
26	57.	59.	55.	65.	12:33	53.	4:33	N.A.
27	65.	*	65.	67.	18:39	61.	23:54	N.A.
28	61.	66.	57.	69.	14:50	51.	23:17	N.A.
29	63.	68.	59.	80.	17:18	49.	4: 4	N.A.
30	67.	71.	64.	76.	15:31	58.	3: 9	N.A.
31	69.	72.	67.	82.	19:54	57.	3:43	N.A.
MEAN	64.	67.	62.					N.A.
STANDARD DEVIATION	5.3	6.3	4.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: BELL OF PENNSYLVANIA
WEST CHESTER, PENNSYLVANIA

REPORT PERIOD: 79/ 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	2039.	N.A.	N.A.	293.	11:35	2720.	75.
2	1868.	N.A.	N.A.	305.	11:12	2706.	65.
3	856.	N.A.	N.A.	314.	11:40	2693.	32.
4	773.	N.A.	N.A.	203.	9:50	2682.	29.
5	2006.	N.A.	N.A.	296.	11:37	2669.	75.
6	1604.	N.A.	N.A.	284.	11:21	2656.	60.
7	1817.	N.A.	N.A.	269.	13: 2	2644.	65.
8	1746.	N.A.	N.A.	266.	12: 9	2634.	66.
9	1829.	N.A.	N.A.	266.	11:21	2624.	70.
10	1356.	N.A.	N.A.	299.	11:41	2612.	52.
11	1333.	N.A.	N.A.	251.	11:25	2600.	51.
12	245.	N.A.	N.A.	73.	12:45	2588.	9.
13	221.	N.A.	N.A.	39.	12:57	2579.	9.
14	201.	N.A.	N.A.	57.	15:15	2567.	8.
15	1637.	N.A.	N.A.	293.	12:21	2556.	64.
16	1751.	N.A.	N.A.	290.	11:31	2546.	70.
17	1617.	N.A.	N.A.	311.	12:26	2537.	64.
18	382.	N.A.	N.A.	94.	8:44	2526.	15.
19	285.	N.A.	N.A.	94.	11:29	2516.	11.
20	706.	N.A.	N.A.	230.	12: 3	2508.	28.
21	353.	N.A.	N.A.	79.	10:41	2498.	14.
22	1211.	N.A.	N.A.	287.	12:19	2489.	49.
23	467.	N.A.	N.A.	187.	12:58	2479.	19.
24	476.	N.A.	N.A.	151.	15:27	2473.	19.
25	651.	N.A.	N.A.	245.	13: 5	2464.	26.
26	1018.	N.A.	N.A.	299.	11:50	2455.	41.
27	*	N.A.	N.A.	*	*:*	2447.	*
28	664.	N.A.	N.A.	203.	13:57	2439.	27.
29	1197.	N.A.	N.A.	278.	11:53	2431.	49.
30	1403.	N.A.	N.A.	260.	11:52	2426.	58.
31	816.	N.A.	N.A.	230.	12:10	2419.	34.
MEAN	1086.	N.A.	N.A.			2554.	
STANDARD DEVIATION	613.	N.A.	N.A.			92.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HAMDEN APARTMENTS
HAMDEN, CONNECTICUT

REPORT PERIOD: 7/ 5
SITE NUMBER: 124

LATITUDE: 40.23 DEG NORTH AZIMUTH: 7 DEG
LONGITUDE: 72.54 DEG WEST PYRANOMETER TILT: 40 DEG TIME ZONE: EASTERN
ALTIITUDE: 60 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.	65.	49.	72.	14:45	44.	23:44	
2	55.	61.	49.	69.	15:39	42.	3:29	
3	56.	63.	49.	69.	12:21	39.	4:37	
4	61.	67.	55.	74.	14:11	51.	23:36	
5	54.	57.	51.	64.	15:41	47.	23:45	
6	55.	59.	51.	64.	15:24	44.	23:35	
7	60.	67.	53.	76.	11:18	41.	1:53	
8	65.	72.	58.	80.	14:48	47.	4:13	
9	74.	81.	66.	90.	14:11	55.	4:40	
10	80.	88.	66.	96.	12:31	63.	4:21	
11	69.	75.	62.	81.	9:54	59.	21:27	
12	62.	63.	60.	66.	9:48	56.	4:50	
13	62.	64.	61.	66.	13:26	59.	3:39	
14	61.	61.	60.	63.	13:29	58.	23:37	
15	63.	67.	60.	75.	14:20	55.	4:47	
16	66.	71.	60.	80.	13:10	56.	4:27	
17	63.	69.	58.	77.	15: 0	52.	4:20	
18	60.	61.	59.	67.	17:36	55.	1:34	
19	60.	63.	58.	67.	12:11	57.	4:32	
20	62.	64.	60.	70.	10:37	55.	4:56	
21	67.	70.	64.	78.	14: 2	61.	22:50	
22	61.	*	61.	62.	0:32	59.	2:56	
23	59.	59.	59.	61.	10: 2	57.	12:10	
24	61.	62.	60.	69.	15:16	57.	23:37	
25	62.	63.	61.	66.	16:17	56.	5: 5	
26	63.	67.	59.	73.	10: 9	56.	21:10	
27	62.	64.	59.	70.	12:51	52.	4:49	
28	63.	66.	60.	72.	11:10	58.	23:53	
29	64.	69.	59.	79.	10:55	52.	4:47	
30	66.	70.	62.	76.	14: 5	58.	5:28	
31	67.	74.	61.	82.	12:55	53.	4: 7	
MEAN	63.	67.	58.					
STANDARD DEVIATION	5.4	5.7	4.6					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HAMDEN APARTMENTS
HAMDEN, CONNECTICUTREPORT PERIOD: 79/ 5
SITE NUMBER: 124LATITUDE: 40.23 DEG NORTH
LONGITUDE: 72.54 DEG WESTAZIMUTH: 7 DEG
PYRANOMETER TILT: 40 DEGTIME ZONE: EASTERN
ALTITUDE: 60 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	2189.	N.A.	N.A.	317.	11:44	3180.	69.
2	2301.	N.A.	N.A.	320.	11:45	3174.	73.
3	1154.	N.A.	N.A.	238.	12:21	3168.	36.
4	1360.	N.A.	N.A.	292.	10:59	3162.	43.
5	2373.	N.A.	N.A.	329.	11:57	3156.	75.
6	2029.	N.A.	N.A.	317.	13:11	3150.	64.
7	1954.	N.A.	N.A.	292.	11:50	3144.	62.
8	2096.	N.A.	N.A.	300.	12: 8	3138.	67.
9	1994.	N.A.	N.A.	283.	12:13	3132.	64.
10	1745.	N.A.	N.A.	292.	11:43	3126.	56.
11	2384.	N.A.	N.A.	315.	12:12	3121.	76.
12	208.	N.A.	N.A.	54.	12:28	3115.	7.
13	236.	N.A.	N.A.	65.	9:15	3109.	8.
14	292.	N.A.	N.A.	79.	12:36	3103.	9.
15	1506.	N.A.	N.A.	275.	13:48	3098.	49.
16	1558.	N.A.	N.A.	343.	11:45	3092.	50.
17	1911.	N.A.	N.A.	315.	13: 2	3087.	62.
18	417.	N.A.	N.A.	122.	10: 8	3082.	14.
19	347.	N.A.	N.A.	74.	9:52	3073.	11.
20	841.	N.A.	N.A.	238.	10:10	3068.	27.
21	1064.	N.A.	N.A.	295.	13: 4	3063.	35.
22	*	N.A.	N.A.	*	*:*	3058.	*
23	113.	N.A.	N.A.	31.	9:40	3053.	4.
24	259.	N.A.	N.A.	130.	14:44	3048.	8.
25	156.	N.A.	N.A.	57.	11:29	3044.	5.
26	1997.	N.A.	N.A.	306.	12:12	3039.	66.
27	1443.	N.A.	N.A.	315.	12:51	3035.	48.
28	907.	N.A.	N.A.	278.	11:15	3030.	30.
29	1962.	N.A.	N.A.	306.	11:27	3026.	65.
30	1779.	N.A.	N.A.	315.	11:52	3022.	59.
31	1889.	N.A.	N.A.	312.	12:18	3018.	63.
MEAN	1349.	N.A.	N.A.			3094.	
STANDARD DEVIATION	779.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: LUTZ-SOTIRE
STAMFORD, CONNECTICUTREPORT PERIOD: 79/ 5
SITE NUMBER: 127LATITUDE: 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	56.	63.	50.	70.	13: 9	42.	23:55	N.A.
2	51.	60.	43.	71.	16:13	32.	4:23	N.A.
3	54.	62.	48.	68.	13:35	38.	4:37	N.A.
4	54.	*	54.	57.	3: 6	52.	1:46	N.A.
5	53.	58.	49.	66.	15:46	46.	23: 4	N.A.
6	53.	59.	46.	67.	14:11	41.	2:48	N.A.
7	58.	67.	50.	76.	13:29	41.	2:37	N.A.
8	64.	73.	56.	82.	14:10	47.	4:44	N.A.
9	74.	82.	66.	91.	14:30	52.	4:27	N.A.
10	78.	87.	70.	96.	12:28	62.	4:50	N.A.
11	66.	70.	63.	76.	13: 4	53.	23:34	N.A.
12	56.	58.	55.	64.	14:14	51.	5:31	N.A.
13	62.	63.	60.	66.	13:22	57.	1: 0	N.A.
14	57.	55.	57.	62.	0: 2	54.	23:45	N.A.
15	58.	62.	55.	68.	15:33	52.	2:52	N.A.
16	63.	69.	57.	77.	15: 6	53.	5:41	N.A.
17	60.	67.	54.	77.	13:47	48.	4:49	N.A.
18	56.	57.	55.	61.	16:44	49.	1:58	N.A.
19	57.	58.	57.	62.	14:20	55.	5:53	N.A.
20	61.	64.	58.	71.	14:20	54.	2:26	N.A.
21	65.	69.	61.	76.	11:43	58.	4: 2	N.A.
22	62.	68.	57.	78.	15:27	51.	23:54	N.A.
23	55.	55.	54.	58.	17: 6	48.	2:34	N.A.
24	60.	62.	59.	68.	14:35	57.	0:29	N.A.
25	61.	62.	60.	62.	7:11	58.	3: 0	N.A.
26	60.	64.	56.	70.	10:23	53.	23:37	N.A.
27	59.	63.	55.	71.	13:17	46.	3:37	N.A.
28	61.	66.	58.	73.	11:30	54.	4:13	N.A.
29	61.	68.	55.	78.	11:27	47.	4:31	N.A.
30	64.	69.	59.	75.	12: 1	56.	23:51	N.A.
31	65.	73.	59.	81.	13:44	55.	2:25	N.A.
MEAN	60.	65.	56.					N.A.
STANDARD DEVIATION	5.8	7.2	5.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: LUTZ-SOTIRE
STAMFORD, CONNECTICUTREPORT PERIOD: 79/ 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 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	2001.	1377.	624.	289.	12:21	2766.	72.
2	2002.	1438.	564.	289.	12:34	2753.	73.
3	924.	809.	115.	230.	13:14	2741.	34.
4	*	*	*	*	***	2731.	*
5	2066.	1564.	502.	289.	12:18	2718.	76.
6	1929.	1461.	467.	286.	11:47	2708.	71.
7	1520.	1154.	366.	265.	12: 4	2693.	56.
8	1768.	1429.	339.	256.	12:18	2684.	66.
9	1760.	1468.	292.	253.	12:17	2672.	66.
10	1197.	1029.	169.	265.	12:23	2663.	45.
11	1411.	1100.	311.	274.	11:28	2651.	53.
12	243.	156.	86.	68.	14: 8	2640.	9.
13	151.	91.	61.	47.	12:34	2629.	6.
14	183.	135.	48.	41.	10:20	2620.	7.
15	1131.	927.	204.	227.	13:35	2610.	43.
16	1390.	1244.	146.	295.	12:21	2602.	53.
17	1481.	1321.	161.	268.	13:31	2591.	57.
18	267.	193.	73.	71.	16:28	2581.	10.
19	202.	152.	51.	44.	11:51	2571.	8.
20	765.	617.	147.	265.	14: 4	2561.	30.
21	942.	793.	149.	283.	11:17	2554.	37.
22	1488.	1332.	156.	268.	11:38	2545.	58.
23	107.	71.	36.	27.	9:27	2536.	4.
24	346.	268.	77.	159.	14:24	2527.	14.
25	80.	55.	25.	35.	13:19	2519.	3.
26	1781.	1684.	97.	271.	12:52	2513.	71.
27	949.	835.	114.	289.	12:24	2505.	38.
28	815.	701.	113.	230.	11:25	2497.	33.
29	1374.	1188.	186.	248.	11:27	2490.	55.
30	1184.	1033.	151.	262.	11:56	2485.	48.
31	1616.	1443.	173.	268.	12: 3	2478.	65.
MEAN	1102.	902.	200.			2608.	
STANDARD DEVIATION	655.	534.	162.			88.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: M. F. SMITH
JAMESTOWN, RHODE ISLAND

REPORT PERIOD: 79/ 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	57.	64.	50.	70.	15:19	44.	2:37	61.
2	52.	56.	47.	61.	13:34	42.	3:24	64.
3	52.	57.	48.	63.	9:33	42.	4:45	63.
4	61.	67.	55.	73.	14:27	50.	0:34	71.
5	55.	58.	52.	63.	15:15	50.	23:51	60.
6	51.	53.	49.	56.	14:10	45.	5: 6	62.
7	56.	61.	52.	66.	9:54	48.	4:50	59.
8	59.	65.	53.	70.	9:37	47.	2:47	66.
9	66.	72.	60.	76.	14: 3	55.	4:32	62.
10	75.	83.	68.	90.	10:43	61.	1:58	74.
11	62.	65.	60.	68.	7:57	53.	23:51	78.
12	56.	58.	55.	61.	11:35	52.	3:25	75.
13	57.	58.	57.	59.	8: 4	55.	4:52	61.
14	58.	60.	57.	63.	10:45	55.	21:20	68.
15	59.	62.	56.	65.	13:15	55.	20:53	72.
16	62.	67.	58.	74.	14:21	55.	4:45	61.
17	60.	63.	56.	67.	11:20	54.	4:34	67.
18	58.	62.	54.	70.	14:37	53.	3:47	74.
19	55.	57.	53.	60.	11:20	52.	22:38	64.
20	57.	59.	55.	63.	12:40	52.	4: 3	68.
21	58.	61.	55.	66.	14: 3	54.	3:36	66.
22	61.	67.	57.	72.	11:51	53.	23:30	62.
23	57.	58.	56.	61.	9:29	50.	4: 9	63.
24	59.	59.	58.	63.	15:22	56.	6: 7	62.
25	62.	62.	61.	64.	14:33	59.	1:35	65.
26	60.	62.	58.	68.	13:34	53.	21:56	63.
27	59.	62.	56.	65.	12:55	53.	3:48	66.
28	58.	58.	58.	60.	6:37	57.	22:58	65.
29	60.	63.	57.	67.	16:45	56.	5:17	63.
30	62.	66.	59.	70.	11:42	57.	1:12	61.
31	65.	70.	60.	74.	14:37	56.	4:29	66.
MEAN	59.	62.	56.					65.
STANDARD DEVIATION	4.5	5.6	4.1					4.8

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: M. F. SMITH
JAMESTOWN, RHODE ISLAND

REPORT PERIOD: 79/ 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	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	2066.	N.A.	N.A.	314.	12: 2	3080.	67.
2	2332.	N.A.	N.A.	320.	11:47	3072.	76.
3	1504.	N.A.	N.A.	303.	11:30	3064.	49.
4	1636.	N.A.	N.A.	283.	11:42	3056.	54.
5	2412.	N.A.	N.A.	328.	11:47	3048.	79.
6	1937.	N.A.	N.A.	322.	12:13	3040.	64.
7	2253.	N.A.	N.A.	325.	11: 8	3035.	74.
8	2165.	N.A.	N.A.	300.	11:56	3028.	71.
9	2150.	N.A.	N.A.	303.	12:16	3020.	71.
10	1933.	N.A.	N.A.	322.	11:36	3012.	64.
11	2166.	N.A.	N.A.	303.	11:46	3005.	72.
12	561.	N.A.	N.A.	164.	11:30	2997.	19.
13	229.	N.A.	N.A.	48.	9:24	2990.	8.
14	429.	N.A.	N.A.	116.	10:40	2982.	14.
15	649.	N.A.	N.A.	158.	13:15	2975.	22.
16	1534.	N.A.	N.A.	303.	12:18	2968.	52.
17	1486.	N.A.	N.A.	263.	10:53	2961.	50.
18	973.	N.A.	N.A.	218.	14:27	2955.	33.
19	413.	N.A.	N.A.	130.	11:20	2948.	14.
20	599.	N.A.	N.A.	124.	11: 4	2941.	20.
21	1078.	N.A.	N.A.	240.	14: 3	2935.	37.
22	1793.	N.A.	N.A.	297.	11:46	2928.	61.
23	314.	N.A.	N.A.	76.	9:40	2922.	11.
24	330.	N.A.	N.A.	68.	15:43	2916.	11.
25	510.	N.A.	N.A.	110.	12: 3	2913.	18.
26	1672.	N.A.	N.A.	317.	12: 9	2907.	58.
27	1923.	N.A.	N.A.	311.	12: 7	2902.	66.
28	353.	N.A.	N.A.	105.	12:45	2897.	12.
29	1954.	N.A.	N.A.	320.	12:19	2891.	68.
30	1545.	N.A.	N.A.	320.	11:15	2886.	54.
31	2009.	N.A.	N.A.	354.	11:25	2881.	70.
MEAN	1384.	N.A.	N.A.			2973.	
STANDARD DEVIATION	738.	N.A.	N.A.			61.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: STEWART-TEELE-MITCHELL
MALTA, NEW YORK

REPORT PERIOD: 79/ 5
SITE NUMBER: 62

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

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	51.	54.	46.	60.	10:14	41.	23:44	70.
2	51.	56.	45.	64.	15:23	36.	3:39	69.
3	55.	60.	49.	67.	12:12	38.	4:44	70.
4	53.	53.	52.	58.	1:58	46.	23:22	68.
5	49.	53.	44.	60.	16:11	39.	4:48	65.
6	50.	54.	45.	60.	13:21	36.	4:59	66.
7	57.	62.	52.	69.	14:40	48.	1:58	65.
8	68.	75.	60.	67.	15:56	43.	4:28	71.
9	75.	85.	72.	63.	15:35	62.	5:21	76.
10	77.	85.	68.	52.	14:22	62.	23:52	76.
11	71.	79.	64.	67.	14:17	54.	5: 2	74.
12	65.	69.	60.	60.	13:45	59.	1:56	62.
13	*	*	*	*	*:*	*	*:*	*
14	60.	64.	56.	69.	12:27	52.	23:23	72.
15	64.	70.	57.	60.	14:15	48.	2:25	75.
16	60.	65.	54.	70.	14:24	46.	23:22	72.
17	55.	63.	47.	71.	16:31	38.	4:57	63.
18	56.	61.	51.	65.	10:53	42.	4:50	62.
19	60.	65.	54.	71.	12:35	53.	2:58	71.
20	*	*	*	*	*:*	*	*:*	*
21	64.	69.	58.	74.	15:32	50.	23:59	74.
22	58.	65.	52.	73.	15:15	46.	23:52	73.
23	56.	60.	52.	65.	10:46	42.	5: 1	72.
24	56.	57.	56.	58.	0:24	55.	22:13	69.
25	57.	57.	57.	60.	15:45	53.	5:36	68.
26	63.	68.	58.	73.	13:31	52.	23:55	71.
27	56.	60.	53.	65.	10:56	51.	5: 9	71.
28	62.	67.	56.	74.	12:59	53.	0: 6	71.
29	62.	66.	57.	70.	15: 2	55.	22:40	72.
30	59.	62.	55.	71.	15:24	48.	23:51	72.
31	63.	71.	55.	79.	15:16	46.	3:37	73.
MEAN	60.	65.	55.					70.
STANDARD DEVIATION	7.4	8.5	6.5					3.8

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: STEWART-TEELE-MITCHELL
MALTA, NEW YORK

REPORT PERIOD: 79/ 5
SITE NUMBER: 62

LATITUDE: 43.00 DEG NORTH
LONGITUDE: 74.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 277 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION ETL/FT2	MAXIMUM INSOLATION VALUE ETL/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS EXT INS PERCENT
1	1332.	N.A.	N.A.	355.	12:38	3119.	43.
2	2178.	N.A.	N.A.	317.	11:39	3112.	70.
3	906.	N.A.	N.A.	280.	10:14	3105.	29.
4	1163.	N.A.	N.A.	261.	13:36	3098.	38.
5	2036.	N.A.	N.A.	336.	11:28	3091.	66.
6	1297.	N.A.	N.A.	336.	12: 6	3083.	42.
7	1754.	N.A.	N.A.	311.	11:49	3076.	57.
8	2109.	N.A.	N.A.	289.	11:40	3072.	69.
9	2085.	N.A.	N.A.	292.	11:40	3065.	68.
10	1755.	N.A.	N.A.	289.	12: 3	3058.	57.
11	2053.	N.A.	N.A.	289.	11:37	3051.	67.
12	*	N.A.	N.A.	*	*:*	3045.	*
13	*	N.A.	N.A.	*	*:*	3038.	*
14	1157.	N.A.	N.A.	283.	11: 7	3031.	38.
15	2080.	N.A.	N.A.	302.	12: 7	3025.	69.
16	2104.	N.A.	N.A.	305.	11:44	3018.	70.
17	2296.	N.A.	N.A.	314.	12: 4	3012.	76.
18	834.	N.A.	N.A.	224.	9:49	3005.	28.
19	*	N.A.	N.A.	*	*:*	2999.	*
20	*	N.A.	N.A.	*	*:*	2993.	*
21	850.	N.A.	N.A.	333.	11: 6	2987.	28.
22	1786.	N.A.	N.A.	327.	10:32	2981.	60.
23	664.	N.A.	N.A.	215.	10:10	2976.	22.
24	177.	N.A.	N.A.	31.	7:41	2970.	6.
25	343.	N.A.	N.A.	68.	15:55	2965.	12.
26	1487.	N.A.	N.A.	320.	11:49	2960.	50.
27	1142.	N.A.	N.A.	280.	10: 8	2955.	39.
28	1609.	N.A.	N.A.	311.	10:56	2950.	55.
29	1495.	N.A.	N.A.	330.	12:11	2945.	51.
30	1054.	N.A.	N.A.	311.	13:32	2940.	36.
31	2157.	N.A.	N.A.	292.	12: 4	2936.	73.
MEAN	1478.	N.A.	N.A.			3021.	
STANDARD DEVIATION	601.	N.A.	N.A.			56.	

ZONE 3

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: BISMARCK POWER
BISMARCK, NORTH DAKOTA

REPORT PERIOD: 79/ 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	50.	56.	44.	64.	15:26	34.	23:58	N.A.
2	39.	42.	37.	52.	15:12	26.	5:20	N.A.
3	40.	48.	33.	60.	13:19	26.	5: 8	N.A.
4	39.	40.	38.	50.	13:52	25.	4:43	N.A.
5	37.	37.	36.	41.	13:47	33.	5:15	N.A.
6	39.	40.	39.	41.	17:42	37.	3:45	N.A.
7	43.	46.	41.	49.	11:58	34.	23:52	N.A.
8	39.	42.	36.	50.	15:28	30.	5:15	N.A.
9	34.	35.	32.	38.	14:33	29.	23: 5	N.A.
10	30.	31.	30.	33.	15:11	28.	5:19	N.A.
11	41.	44.	39.	57.	16:17	30.	0:36	N.A.
12	48.	54.	44.	64.	14:52	32.	1:53	N.A.
13	53.	58.	49.	65.	15:27	40.	2:33	N.A.
14	55.	60.	52.	68.	15:17	44.	23:49	N.A.
15	59.	64.	55.	76.	15:54	37.	4:48	N.A.
16	71.	76.	68.	90.	15:35	51.	4:34	N.A.
17	57.	60.	55.	64.	12:20	48.	23:26	N.A.
18	54.	57.	52.	71.	16:51	39.	5: 0	N.A.
19	51.	56.	47.	62.	11: 9	41.	22:17	N.A.
20	49.	51.	48.	65.	16: 4	38.	5:29	N.A.
21	57.	61.	54.	77.	15:48	39.	2:22	N.A.
22	50.	51.	50.	58.	0: 4	41.	23:56	N.A.
23	59.	64.	55.	80.	16: 1	39.	4:38	N.A.
24	62.	68.	58.	79.	14:51	41.	5:10	N.A.
25	63.	64.	63.	79.	17: 6	52.	3:19	N.A.
26	67.	72.	62.	81.	16:34	50.	3:14	N.A.
27	68.	75.	62.	87.	15:53	46.	5: 1	N.A.
28	73.	78.	69.	93.	17:55	53.	3:58	N.A.
29	55.	57.	54.	63.	0: 3	48.	23:55	N.A.
30	57.	60.	54.	69.	14:24	46.	23:55	N.A.
31	52.	58.	48.	75.	11:57	40.	5:17	N.A.
MEAN	51.	55.	48.					N.A.
STANDARD DEVIATION	11.2	12.4	10.6					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: BISMARCK POWER
BISMARCK, NORTH DAKOTAREPORT PERIOD: 79/ 5
SITE NUMBER: 174LATITUDE: 46.70 DEG NORTH
LONGITUDE: 100.80 DEG WESTAZIMUTH: 15 DEG
PYRANOMETER TILT: 67 DEGTIME ZONE: MOUNTAIN
ALTITUDE: 1850 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	1864.	N.A.	N.A.	283.	12:35	2574.	72.
2	2033.	N.A.	N.A.	292.	12:27	2559.	79.
3	1648.	N.A.	N.A.	286.	12:25	2547.	65.
4	947.	N.A.	N.A.	298.	10:51	2534.	37.
5	190.	N.A.	N.A.	41.	10:40	2517.	8.
6	96.	N.A.	N.A.	50.	13:42	2505.	4.
7	802.	N.A.	N.A.	207.	10: 6	2494.	32.
8	1602.	N.A.	N.A.	324.	12:27	2480.	65.
9	287.	N.A.	N.A.	60.	15:42	2466.	12.
10	268.	N.A.	N.A.	57.	14:28	2455.	11.
11	1648.	N.A.	N.A.	302.	11:56	2442.	67.
12	1397.	N.A.	N.A.	298.	12:55	2428.	58.
13	1728.	N.A.	N.A.	311.	13:24	2418.	71.
14	1580.	N.A.	N.A.	302.	13:36	2405.	66.
15	1880.	N.A.	N.A.	273.	12:32	2395.	78.
16	1813.	N.A.	N.A.	264.	11:35	2383.	76.
17	966.	N.A.	N.A.	302.	12:14	2371.	41.
18	1650.	N.A.	N.A.	295.	12:49	2362.	70.
19	1219.	N.A.	N.A.	276.	13:33	2351.	52.
20	1287.	N.A.	N.A.	346.	12:46	2340.	55.
21	1504.	N.A.	N.A.	273.	14: 7	2331.	65.
22	387.	N.A.	N.A.	113.	14:15	2321.	17.
23	1763.	N.A.	N.A.	289.	12:44	2313.	76.
24	1820.	N.A.	N.A.	267.	12:27	2303.	79.
25	1063.	N.A.	N.A.	280.	12:50	2293.	46.
26	1815.	N.A.	N.A.	264.	12:29	2284.	79.
27	1794.	N.A.	N.A.	270.	12:19	2277.	79.
28	1711.	N.A.	N.A.	267.	13:34	2268.	75.
29	340.	N.A.	N.A.	123.	11: 1	2260.	15.
30	1373.	N.A.	N.A.	305.	13: 4	2254.	61.
31	1024.	N.A.	N.A.	280.	11:57	2244.	46.
MEAN	1274.	N.A.	N.A.			2393.	
STANDARD DEVIATION	592.	N.A.	N.A.			100.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: FIRST BAPTIST CHURCH
 ABERDEEN, SOUTH DAKOTA

REPORT PERIOD: 79/ 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	42.	44.	39.	52.	17:59	35.	5:54	
2	43.	49.	38.	55.	14:30	32.	23:13	
3	45.	53.	38.	62.	13:43	28.	5:17	
4	44.	47.	41.	56.	13:24	33.	4:30	
5	45.	47.	43.	54.	13: 2	38.	5:18	
6	44.	45.	42.	56.	14:10	39.	3: 8	
7	53.	60.	47.	69.	16:27	39.	5:25	
8	45.	49.	41.	59.	13:20	37.	6:46	
9	35.	35.	36.	40.	0: 0	32.	8:41	
10	33.	34.	32.	38.	15:34	29.	23:34	
11	42.	45.	38.	60.	17:41	30.	1:21	
12	48.	56.	40.	65.	14:40	29.	4: 5	
13	52.	57.	48.	68.	17:50	37.	1:29	
14	56.	63.	50.	70.	13:39	44.	23:20	
15	58.	67.	50.	76.	13:55	35.	4:45	
16	68.	74.	63.	83.	15:46	53.	3:16	
17	62.	65.	58.	76.	0:10	46.	23:52	
18	55.	60.	50.	70.	15:50	42.	3:52	
19	57.	66.	49.	74.	14:46	43.	5:31	
20	50.	55.	45.	63.	17:29	39.	3:53	
21	53.	59.	48.	68.	16: 3	34.	3:42	
22	52.	56.	48.	62.	8:46	41.	23:53	
23	58.	68.	49.	75.	14: 0	39.	4:51	
24	60.	69.	53.	79.	11:47	38.	4:45	
25	62.	69.	56.	76.	11: 6	49.	1:34	
26	67.	77.	59.	84.	14:28	48.	2:28	
27	66.	77.	57.	86.	14:54	45.	4:36	
28	74.	81.	68.	91.	18: 1	55.	2: 6	
29	65.	69.	62.	78.	8:40	53.	23:57	
30	52.	54.	51.	62.	16: 7	45.	7:45	
31	54.	59.	49.	71.	13:59	41.	3:13	
MEAN	53.	58.	48.					
STANDARD DEVIATION	9.9	11.9	8.6					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: FIRST BAPTIST CHURCH
ABERDEEN, SOUTH DAKOTA

REPORT PERIOD: 79/ 5
SITE NUMBER: 153

LATITUDE: 45.27 DEG NORTH
LONGITUDE: 98.26 DEG WEST

AZIMUTH: 0 DEG
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	TIME HR:MN	EXTRATERRESTPIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	380.	N.A.	N.A.	67.	14:42	2802.	14.
2	2498.	N.A.	N.A.	343.	12:54	2789.	90.
3	2346.	N.A.	N.A.	353.	13: 1	2777.	84.
4	2207.	N.A.	N.A.	336.	12:36	2768.	80.
5	956.	N.A.	N.A.	370.	12:25	2756.	35.
6	537.	N.A.	N.A.	316.	13:22	2744.	20.
7	2159.	N.A.	N.A.	387.	13: 4	2732.	79.
8	1458.	N.A.	N.A.	377.	12: 0	2723.	54.
9	305.	N.A.	N.A.	61.	9:13	2711.	11.
10	326.	N.A.	N.A.	98.	15:24	2703.	12.
11	1642.	N.A.	N.A.	400.	12:32	2691.	61.
12	1839.	N.A.	N.A.	350.	13:41	2680.	69.
13	1365.	N.A.	N.A.	340.	12:14	2669.	51.
14	1774.	N.A.	N.A.	360.	12:13	2659.	67.
15	2361.	N.A.	N.A.	350.	12:40	2651.	89.
16	2301.	N.A.	N.A.	309.	12: 8	2641.	87.
17	851.	N.A.	N.A.	286.	14:10	2631.	32.
18	1638.	N.A.	N.A.	346.	13:37	2621.	62.
19	2016.	N.A.	N.A.	370.	12:27	2611.	77.
20	1020.	N.A.	N.A.	293.	13:39	2604.	39.
21	1299.	N.A.	N.A.	249.	10:16	2595.	50.
22	869.	N.A.	N.A.	266.	9:55	2589.	34.
23	2102.	N.A.	N.A.	353.	12:29	2580.	81.
24	2189.	N.A.	N.A.	343.	12:46	2571.	85.
25	1262.	N.A.	N.A.	326.	11:32	2563.	49.
26	2163.	N.A.	N.A.	343.	12:15	2555.	85.
27	2420.	N.A.	N.A.	323.	12:46	2547.	95.
28	1737.	N.A.	N.A.	340.	12: 9	2540.	68.
29	635.	N.A.	N.A.	215.	15:46	2535.	25.
30	1049.	N.A.	N.A.	252.	15:19	2528.	42.
31	2007.	N.A.	N.A.	330.	12: 1	2521.	80.
MEAN	1539.	N.A.	N.A.			2648.	
STANDARD DEVIATION	691.	N.A.	N.A.			86.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: FIRST BAPTIST CHURCH
 ABERDEEN, SOUTH DAKOTA

REPORT PERIOD: 79/ 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

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPFED	MAXIMUM WIND SPEED	DIRECTION	TIME HR:MN
1	16.	3.	19.	4.	10.	42.	4:50
2	*	0.	*	1.	5.	*	7:13
3	*	2.	*	1.	10.	*	23:57
4	243.	4.	243.	4.	13.	238.	1:27
5	240.	5.	232.	5.	11.	239.	15:26
6	251.	4.	250.	5.	13.	248.	7:40
7	*	2.	*	3.	9.	*	14:51
8	*	0.	*	0.	5.	*	10: 3
9	223.	2.	225.	3.	12.	232.	4: 0
10	*	0.	*	0.	5.	*	13:10
11	*	1.	*	1.	7.	*	0:12
12	*	1.	*	1.	5.	*	19:58
13	*	1.	*	1.	4.	*	14:33
14	*	0.	*	0.	3.	*	6:43
15	*	0.	*	0.	2.	*	21:45
16	*	0.	*	0.	2.	*	5:49
17	*	0.	*	0.	1.	*	20:40
18	*	0.	*	0.	2.	*	2:58
19	*	0.	*	0.	2.	*	7:39
20	*	0.	*	0.	1.	*	7:53
21	*	0.	*	0.	3.	*	22:27
22	*	0.	*	0.	2.	*	4: 9
23	*	*	*	*	*	*	*:*
24	*	0.	*	0.	3.	*	6:43
25	*	0.	*	0.	2.	*	3:54
26	*	0.	*	0.	1.	*	3: 6
27	*	0.	*	0.	1.	*	23:16
28	*	0.	*	0.	0.	*	0:46
29	*	0.	*	0.	0.	*	12:50
30	*	0.	*	0.	0.	*	7:35
31	*	0.	*	0.	1.	*	7:29
MEAN	248.	1.	245.	1.			
STANDARD DEVIATION	117.2	1.4	113.7	1.6			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: FIRST BAPTIST CHURCH
 ABERDEEN, SOUTH DAKOTA

REPORT PERIOD: 79/ 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

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	13	0	0	0	0	0	0	0
2	24	0	0	0	0	0	0	0	0
3	18	6	0	0	0	0	0	0	0
4	9	15	0	0	0	0	0	0	0
5	7	17	0	0	0	0	0	0	0
6	12	10	2	0	0	0	0	0	0
7	19	5	0	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	18	6	0	0	0	0	0	0	0
10	24	0	0	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	24	0	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	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	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	24	0	0	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	21.6	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	669	72	2	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HARNEY LUMBER
RAPID CITY, SOUTH DAKOTA

REPORT PERIOD: 79/ 5
SITE NUMBER: 147

LATITUDE: 44.30 DEG NORTH AZIMUTH: 16 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 103.40 DEG WEST PYRANOMETER TILT: 50 DEG ALTITUDE: 3162 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTJ/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE	TIME		
				BTU/HR/FT2	HR: MN		
1	1981.	N.A.	N.A.	362.	11:39	3054.	65.
2	1333.	N.A.	N.A.	322.	11:48	3046.	44.
3	1851.	N.A.	N.A.	355.	12:47	3037.	61.
4	1795.	N.A.	N.A.	332.	11:52	3029.	59.
5	1646.	N.A.	N.A.	270.	14: 5	3023.	54.
6	1249.	N.A.	N.A.	371.	12: 2	3015.	41.
7	1488.	N.A.	N.A.	339.	10:29	3007.	50.
8	595.	N.A.	N.A.	140.	14:19	2998.	20.
9	606.	N.A.	N.A.	244.	14:26	2990.	20.
10	843.	N.A.	N.A.	251.	14:39	2982.	28.
11	1478.	N.A.	N.A.	326.	12:28	2977.	50.
12	1884.	N.A.	N.A.	352.	11:24	2969.	63.
13	1358.	N.A.	N.A.	352.	11:36	2962.	46.
14	2376.	N.A.	N.A.	368.	11:46	2954.	80.
15	2200.	N.A.	N.A.	332.	11: 8	2946.	75.
16	2232.	N.A.	N.A.	345.	11:10	2939.	76.
17	1174.	N.A.	N.A.	287.	9:37	2932.	40.
18	871.	N.A.	N.A.	248.	14:42	2925.	30.
19	1449.	N.A.	N.A.	388.	12:28	2918.	50.
20	2222.	N.A.	N.A.	355.	12:50	2911.	76.
21	2168.	N.A.	N.A.	322.	12:37	2904.	75.
22	2205.	N.A.	N.A.	381.	12:10	2897.	76.
23	2107.	N.A.	N.A.	365.	11:26	2891.	73.
24	2411.	N.A.	N.A.	329.	12:10	2885.	84.
25	1063.	N.A.	N.A.	267.	14: 0	2878.	37.
26	1905.	N.A.	N.A.	355.	12:35	2875.	66.
27	2203.	N.A.	N.A.	329.	12: 2	2869.	77.
28	1838.	N.A.	N.A.	362.	12:34	2864.	64.
29	401.	N.A.	N.A.	91.	14: 6	2858.	14.
30	1417.	N.A.	N.A.	371.	11:46	2853.	50.
31	1089.	N.A.	N.A.	309.	9:40	2848.	38.
MEAN	1595.	N.A.	N.A.			2943.	
STANDARD DEVIATION	572.	N.A.	N.A.			63.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HOUSTON CONSTRUCTION
EDEN PRAIRIE, MINNESOTA

REPORT PERIOD: 7/ 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	42.	46.	39.	51.	12:36	32.	4:38	65.
2	47.	49.	45.	55.	16:13	38.	23:51	52.
3	43.	47.	39.	55.	15:28	32.	4:32	46.
4	43.	46.	40.	55.	15:10	32.	4: 3	51.
5	48.	54.	44.	62.	11:15	42.	23:57	49.
6	57.	58.	55.	77.	15:46	40.	4: 8	50.
7	61.	62.	60.	71.	13:52	50.	23:44	62.
8	53.	53.	52.	56.	14:11	49.	0:16	56.
9	42.	41.	43.	49.	0:51	37.	8: 3	62.
10	44.	46.	43.	51.	14:45	40.	3:44	51.
11	41.	41.	40.	44.	13:13	37.	5:19	52.
12	49.	55.	43.	64.	15:23	31.	4:41	47.
13	54.	60.	49.	67.	13:47	42.	4: 5	55.
14	54.	61.	48.	68.	13:38	41.	4:45	52.
15	54.	59.	49.	67.	15:45	41.	2:14	63.
16	63.	69.	58.	77.	15:21	49.	0: 6	66.
17	70.	78.	63.	69.	14:11	59.	23:53	58.
18	60.	64.	57.	68.	13:35	52.	23:59	55.
19	56.	62.	52.	72.	15:31	45.	4:53	*
20	50.	52.	49.	56.	13:13	41.	23:53	49.
21	53.	60.	47.	67.	16: 4	36.	4:15	50.
22	57.	63.	52.	75.	13:28	47.	23:58	52.
23	53.	56.	50.	65.	14:16	44.	3:36	57.
24	59.	64.	54.	69.	14:50	48.	4:30	50.
25	59.	67.	52.	73.	14: 3	40.	4:38	51.
26	61.	65.	58.	70.	17:42	50.	23:55	65.
27	64.	72.	56.	79.	15:17	44.	3:18	71.
28	69.	76.	63.	85.	14:40	50.	4: 0	58.
29	70.	77.	64.	64.	14:18	60.	2: 2	63.
30	62.	65.	60.	79.	12:38	54.	23:18	59.
31	54.	55.	55.	63.	16:29	46.	23:57	62.
MEAN	55.	59.	51.					56.
STANDARD DEVIATION	8.4	10.0	7.4					6.4

SITE: HCLSTON CONSTRUCTION
EDEN PRAIRIE, MINNESOTA

REPORT PERIOD: 7/9/ 5
SITE NUMBER: 57

LATITUDE: 45.00 DEG NORTH
LONGITUDE: 93.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 60 DEG

TIME ZONE: CENTRAL
ALTITUDE: 809 FEET

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	418.	N.A.	N.A.	56.	12:17	2724.	15.
2	447.	N.A.	N.A.	162.	14:58	2710.	16.
3	1861.	N.A.	N.A.	284.	12:59	2697.	69.
4	1306.	N.A.	N.A.	336.	12:19	2686.	49.
5	1463.	N.A.	N.A.	281.	11:20	2673.	55.
6	1626.	N.A.	N.A.	298.	11:52	2661.	61.
7	1294.	N.A.	N.A.	255.	11:55	2648.	49.
8	304.	N.A.	N.A.	107.	13:55	2638.	12.
9	54.	N.A.	N.A.	29.	14:11	2626.	4.
10	287.	N.A.	N.A.	96.	10:40	2616.	11.
11	484.	N.A.	N.A.	98.	12:31	2604.	19.
12	1678.	N.A.	N.A.	275.	11:48	2592.	65.
13	1555.	N.A.	N.A.	258.	11:39	2581.	60.
14	1627.	N.A.	N.A.	287.	12:45	2572.	63.
15	1946.	N.A.	N.A.	272.	12: 6	2560.	76.
16	1609.	N.A.	N.A.	260.	11:16	2549.	63.
17	1440.	N.A.	N.A.	255.	11:58	2539.	57.
18	1087.	N.A.	N.A.	252.	10:45	2531.	43.
19	1461.	N.A.	N.A.	269.	12:46	2520.	58.
20	928.	N.A.	N.A.	310.	13: 2	2513.	37.
21	1869.	N.A.	N.A.	281.	12:25	2503.	75.
22	1141.	N.A.	N.A.	275.	12:35	2493.	46.
23	1605.	N.A.	N.A.	272.	11:36	2484.	65.
24	1807.	N.A.	N.A.	272.	12:26	2475.	73.
25	1812.	N.A.	N.A.	266.	12: 6	2469.	73.
26	1155.	N.A.	N.A.	316.	12: 6	2460.	47.
27	1694.	N.A.	N.A.	290.	12: 0	2452.	69.
28	1846.	N.A.	N.A.	255.	11:28	2444.	76.
29	1018.	N.A.	N.A.	255.	13:24	2436.	42.
30	948.	N.A.	N.A.	278.	11:18	2429.	39.
31	624.	N.A.	N.A.	182.	15:15	2424.	26.
MEAN	1240.	N.A.	N.A.			2558.	
STANDARD DEVIATION	552.	N.A.	N.A.			92.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HOWARDS GROVE SCHOOL
HOWARDS GROVE, WISCONSIN TTSREPORT PERIOD: 79/ 5
SITE NUMBER: 154LATITUDE: 43.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 89.20 DEG WEST PYANOMETER TILT: 55 DEG ALTITUDE: 858 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	44.	50.	39.	57.	10: 4	33.	4:28	N.A.
2	43.	45.	42.	48.	12:59	39.	4:16	N.A.
3	47.	50.	43.	56.	14: 7	37.	23:22	N.A.
4	41.	47.	34.	53.	11:52	29.	23:52	N.A.
5	41.	44.	38.	52.	18: 5	28.	1:17	N.A.
6	44.	45.	43.	53.	22:10	38.	5: 6	N.A.
7	61.	68.	55.	75.	15:19	44.	3:25	N.A.
8	72.	77.	67.	83.	11:42	58.	2:38	N.A.
9	53.	54.	51.	74.	0: 3	46.	23:57	N.A.
10	66.	76.	57.	83.	11:54	44.	4:48	N.A.
11	57.	59.	55.	72.	7:46	42.	23:36	N.A.
12	48.	53.	43.	59.	13: 1	37.	22:18	N.A.
13	50.	58.	43.	64.	14: 2	34.	4: 0	N.A.
14	55.	61.	50.	67.	15:42	42.	2:29	N.A.
15	51.	58.	45.	64.	8:48	36.	23:34	N.A.
16	50.	58.	42.	63.	13:42	35.	4: 6	N.A.
17	57.	62.	53.	66.	15:35	43.	0: 1	N.A.
18	68.	76.	62.	87.	11:38	56.	0: 1	N.A.
19	54.	58.	50.	63.	14:32	42.	23:58	N.A.
20	56.	66.	47.	73.	12: 8	41.	0:51	N.A.
21	48.	53.	42.	56.	16: 4	36.	23:37	N.A.
22	50.	56.	45.	65.	10:31	36.	1:18	N.A.
23	46.	48.	45.	51.	17:28	39.	23:52	N.A.
24	50.	55.	45.	57.	11: 5	39.	0:56	N.A.
25	52.	58.	46.	62.	13:16	41.	3:29	N.A.
26	54.	60.	48.	65.	11:40	44.	2:14	N.A.
27	54.	58.	50.	65.	12:19	45.	23:57	N.A.
28	56.	63.	50.	74.	15:36	45.	23:15	N.A.
29	55.	62.	49.	70.	6:55	40.	4:20	N.A.
30	52.	55.	49.	62.	13: 1	45.	0:20	N.A.
31	62.	70.	55.	81.	14:36	47.	0: 2	N.A.
MEAN	53.	58.	48.					N.A.
STANDARD DEVIATION	7.5	9.8	6.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HOWARDS GROVE SCHOOL
HOWARDS GROVE, WISCONSIN TTSREPORT PERIOD: 79/ 5
SITE NUMBER: 154LATITUDE: 43.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 89.20 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 858 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT ²	TOTAL DIFF INSOLATION BTU/FT ²	TOTAL DIR INSOLATION BTU/FT ²	MAXIMUM TOTAL		EXTRATERRESTRIAL INSOLATION BTU/FT ²	TTL INS ----- EXT INS PERCENT
				INSOLATION VALUE BTU/HR/FT ²	TIME HR:MN		
1	1135.	N.A.	N.A.	260.	8:55	2852.	40.
2	265.	N.A.	N.A.	76.	12:5	2841.	9.
3	1953.	N.A.	N.A.	393.	10:50	2832.	69.
4	1709.	N.A.	N.A.	361.	10:48	2820.	61.
5	485.	N.A.	N.A.	130.	12:3	2809.	17.
6	1435.	N.A.	N.A.	285.	11:14	2800.	51.
7	1954.	N.A.	N.A.	325.	10:31	2789.	70.
8	1661.	N.A.	N.A.	303.	10:59	2778.	60.
9	1347.	N.A.	N.A.	274.	11:25	2767.	49.
10	1934.	N.A.	N.A.	306.	11:6	2756.	70.
11	1076.	N.A.	N.A.	281.	14:0	2748.	39.
12	1085.	N.A.	N.A.	310.	12:56	2738.	40.
13	968.	N.A.	N.A.	256.	13:20	2727.	35.
14	1790.	N.A.	N.A.	317.	10:59	2717.	66.
15	1741.	N.A.	N.A.	317.	10:46	2707.	64.
16	2119.	N.A.	N.A.	303.	10:52	2700.	78.
17	1866.	N.A.	N.A.	281.	10:41	2691.	69.
18	1200.	N.A.	N.A.	299.	10:28	2681.	45.
19	824.	N.A.	N.A.	245.	9:40	2675.	31.
20	1989.	N.A.	N.A.	382.	12:40	2666.	75.
21	2071.	N.A.	N.A.	407.	12:36	2657.	78.
22	921.	N.A.	N.A.	227.	10:21	2648.	35.
23	638.	N.A.	N.A.	270.	11:57	2640.	24.
24	2124.	N.A.	N.A.	389.	12:25	2632.	81.
25	2131.	N.A.	N.A.	389.	12:28	2624.	81.
26	2076.	N.A.	N.A.	415.	12:22	2619.	79.
27	844.	N.A.	N.A.	202.	11:47	2611.	32.
28	1990.	N.A.	N.A.	364.	12:24	2604.	76.
29	2064.	N.A.	N.A.	353.	12:25	2597.	79.
30	822.	N.A.	N.A.	242.	13:54	2590.	32.
31	1406.	N.A.	N.A.	335.	12:28	2584.	54.
MEAN	1472.	N.A.	N.A.			2706.	
STANDARD DEVIATION	560.	N.A.	N.A.			82.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: HOWARDS GROVE SCHOOL
 HOWARDS GROVE, WISCONSIN TTS

REPORT PERIOD: 79/ 5
 SITE NUMBER: 154

LATITUDE: 43.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
 LONGITUDE: 89.20 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 858 FEET

WIND: SPEED IN MPH-DIRECTION IN DEGREES

DAY	AVG WIND DIRECTION	AVG WIND SPEED	DAYTIME DIRECTION	DAYTIME SPEED	MAXIMUM SPEED	WIND DIRECTION	TIME HR:MN
1	338.	3.	338.	5.	15.	345.	15: 3
2	280.	4.	311.	4.	13.	286.	5: 4
3	158.	8.	148.	10.	23.	177.	5:46
4	138.	2.	127.	4.	13.	120.	12:56
5	325.	3.	330.	5.	24.	339.	11: 9
6	248.	4.	241.	6.	14.	234.	11:57
7	341.	5.	340.	9.	20.	8.	14:53
8	359.	6.	347.	7.	22.	17.	10:33
9	223.	5.	225.	7.	18.	227.	15:57
10	341.	4.	336.	6.	20.	334.	14:40
11	96.	8.	96.	14.	25.	83.	13:38
12	*	1.	*	2.	14.	*	16:48
13	354.	3.	349.	4.	17.	334.	15:38
14	90.	4.	96.	7.	22.	93.	11:36
15	*	2.	*	3.	16.	*	10: 8
16	311.	3.	310.	7.	16.	295.	15:34
17	344.	8.	342.	13.	25.	327.	12:28
18	31.	6.	33.	8.	18.	39.	12:47
19	178.	3.	170.	6.	16.	173.	9:51
20	104.	7.	101.	12.	23.	106.	14:11
21	210.	3.	215.	6.	18.	172.	9:24
22	*	1.	*	2.	13.	*	11:46
23	192.	6.	192.	11.	23.	180.	10:58
24	207.	5.	210.	9.	27.	222.	12:41
25	209.	5.	212.	9.	29.	226.	11:24
26	196.	5.	205.	8.	22.	239.	11:56
27	*	1.	*	1.	14.	*	8: 3
28	*	2.	*	3.	11.	*	7:25
29	237.	3.	237.	5.	16.	249.	11:16
30	*	2.	*	3.	13.	*	13: 1
31	*	2.	*	3.	12.	*	13:26
MEAN	259.	4.	230.	6.			
STANDARD DEVIATION	100.8	2.1	96.4	3.2			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: HOWARDS GROVE SCHOOL
HOWARDS GROVE, WISCONSIN TTS

REPORT PERIOD: 79/ 5
SITE NUMBER: 154

LATITUDE: 43.80 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 89.20 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 858 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

DAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	17	4	3	0	0	0	0	0	0
2	11	11	2	0	0	0	0	0	0
3	7	2	12	3	0	0	0	0	0
4	18	6	0	0	0	0	0	0	0
5	17	2	4	1	0	0	0	0	0
6	15	7	2	0	0	0	0	0	0
7	12	6	5	1	0	0	0	0	0
8	9	7	8	0	0	0	0	0	0
9	11	8	5	0	0	0	0	0	0
10	17	2	5	0	0	0	0	0	0
11	8	4	4	8	0	0	0	0	0
12	21	3	0	0	0	0	0	0	0
13	19	3	2	0	0	0	0	0	0
14	13	8	3	0	0	0	0	0	0
15	19	5	0	0	0	0	0	0	0
16	13	7	4	0	0	0	0	0	0
17	9	4	5	5	1	0	0	0	0
18	10	7	7	0	0	0	0	0	0
19	14	8	2	0	0	0	0	0	0
20	10	5	5	4	0	0	0	0	0
21	16	5	3	0	0	0	0	0	0
22	22	1	1	0	0	0	0	0	0
23	10	4	8	2	0	0	0	0	0
24	10	10	2	2	0	0	0	0	0
25	10	7	5	2	0	0	0	0	0
26	13	4	7	0	0	0	0	0	0
27	22	2	0	0	0	0	0	0	0
28	18	6	0	0	0	0	0	0	0
29	15	7	2	0	0	0	0	0	0
30	21	3	0	0	0	0	0	0	0
31	21	2	0	0	0	0	0	0	1
AVERAGE	14.5	5.2	3.4	0.9	0.0	0.0	0.0	0.0	0.0
TOTAL	448	160	106	28	1	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 7/ 5
SITE NUMBER: 15

LATITUDE: 43.50 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		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	46.	50.	43.	57.	10:11	35.	23:59	N.A.
2	34.	37.	31.	43.	11:48	27.	6:7	N.A.
3	44.	53.	36.	63.	13:53	30.	0:7	N.A.
4	52.	60.	45.	69.	15:21	29.	5:50	N.A.
5	60.	66.	53.	75.	15:6	46.	23:59	N.A.
6	59.	65.	52.	75.	9:51	43.	23:17	N.A.
7	47.	52.	39.	63.	12:9	33.	23:59	N.A.
8	30.	32.	29.	34.	11:37	27.	3:53	N.A.
9	27.	28.	26.	31.	13:4	24.	20:59	N.A.
10	29.	32.	27.	35.	12:20	24.	0:10	N.A.
11	40.	47.	34.	54.	12:25	30.	0:1	N.A.
12	44.	49.	35.	57.	12:51	35.	2:9	N.A.
13	50.	56.	45.	64.	11:41	40.	0:13	N.A.
14	52.	60.	45.	69.	14:24	41.	4:37	N.A.
15	61.	71.	50.	81.	11:46	42.	1:17	N.A.
16	73.	83.	64.	89.	14:48	54.	0:3	N.A.
17	53.	54.	51.	65.	15:32	42.	12:47	N.A.
18	45.	46.	44.	61.	15:36	38.	8:50	N.A.
19	53.	60.	46.	73.	12:36	43.	23:53	N.A.
20	49.	56.	42.	64.	15:41	38.	2:55	N.A.
21	60.	70.	50.	75.	15:35	41.	4:21	N.A.
22	55.	61.	49.	72.	11:5	38.	23:59	N.A.
23	50.	55.	42.	69.	12:52	35.	2:39	N.A.
24	64.	75.	53.	82.	13:43	42.	0:47	N.A.
25	60.	63.	57.	76.	15:24	53.	5:32	N.A.
26	63.	70.	56.	79.	13:11	51.	23:55	N.A.
27	65.	80.	56.	90.	14:53			N.A.
28	63.	68.	59.	66.	7:55			N.A.
29	46.	46.	47.	54.	0:15	42.	23:42	N.A.
30	43.	45.	40.	51.	13:15	34.	4:52	N.A.
31	47.	52.	41.	65.	15:12	37.	23:49	N.A.
MEAN	51.	56.	45.					N.A.
STANDARD DEVIATION	11.2	13.7	9.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: SOUTH DAKOTA SCHOOL OF MINES
KEYSTONE, SOUTH DAKOTA

REPORT PERIOD: 7/ 5
SITE NUMBER: 15

LATITUDE: 43.90 DEG NORTH
LONGITUDE: 103.50 DEG WEST

AZIMUTH: -19 DEG
PYRANOMETER TILT: 46 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5265 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	829.	N.A.	N.A.	283.	10: 6	3158.	26.
2	1119.	N.A.	N.A.	273.	11:11	3151.	36.
3	2250.	N.A.	N.A.	336.	12: 7	3145.	72.
4	2145.	N.A.	N.A.	332.	13: 6	3138.	68.
5	1523.	N.A.	N.A.	269.	12: 3	3132.	49.
6	1914.	N.A.	N.A.	329.	12:15	3125.	61.
7	1185.	N.A.	N.A.	318.	12:52	3119.	38.
8	519.	N.A.	N.A.	136.	13:56	3113.	17.
9	396.	N.A.	N.A.	91.	12:59	3106.	13.
10	579.	N.A.	N.A.	147.	15: 6	3100.	19.
11	1110.	N.A.	N.A.	283.	12:28	3094.	36.
12	1646.	N.A.	N.A.	357.	12:51	3088.	53.
13	1658.	N.A.	N.A.	336.	12:51	3082.	54.
14	1801.	N.A.	N.A.	360.	12:43	3076.	59.
15	1568.	N.A.	N.A.	343.	12: 7	3070.	51.
16	2169.	N.A.	N.A.	329.	12:19	3064.	71.
17	1244.	N.A.	N.A.	301.	13:51	3058.	41.
18	617.	N.A.	N.A.	252.	10:53	3052.	20.
19	1554.	N.A.	N.A.	371.	12:36	3047.	51.
20	1914.	N.A.	N.A.	378.	12:40	3041.	63.
21	1825.	N.A.	N.A.	336.	11:49	3036.	60.
22	1176.	N.A.	N.A.	350.	11:27	3030.	39.
23	1500.	N.A.	N.A.	360.	11:59	3025.	50.
24	2298.	N.A.	N.A.	315.	12: 7	3020.	76.
25	903.	N.A.	N.A.	234.	15:24	3015.	30.
26	1423.	N.A.	N.A.	253.	11:46	3010.	47.
27	2126.	N.A.	N.A.	311.	12:18	3006.	71.
28	1858.	N.A.	N.A.	350.	12:36	3001.	52.
29	329.	N.A.	N.A.	91.	12:10	2997.	11.
30	934.	N.A.	N.A.	315.	10:28	2992.	31.
31	1083.	N.A.	N.A.	329.	11:22	2988.	36.
MEAN	1384.	N.A.	N.A.			3067.	
STANDARD DEVIATION	568.	N.A.	N.A.			52.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 79/ 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	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	585.	N.A.	N.A.	212.	9:40	2859.	20.
2	240.	N.A.	N.A.	103.	15:17	2848.	8.
3	1460.	N.A.	N.A.	303.	12:30	2836.	51.
4	1517.	N.A.	N.A.	312.	11:41	2828.	54.
5	1318.	N.A.	N.A.	275.	11:53	2816.	47.
6	1863.	N.A.	N.A.	272.	12: 8	2805.	66.
7	1316.	N.A.	N.A.	265.	12:17	2797.	47.
8	133.	N.A.	N.A.	47.	10:12	2786.	5.
9	245.	N.A.	N.A.	106.	12:43	2775.	9.
10	*	N.A.	N.A.	*	*:*	2764.	*
11	385.	N.A.	N.A.	78.	12: 7	2753.	14.
12	1425.	N.A.	N.A.	322.	12:12	2746.	52.
13	1468.	N.A.	N.A.	303.	12:37	2736.	54.
14	1461.	N.A.	N.A.	297.	12:25	2725.	54.
15	1902.	N.A.	N.A.	272.	11:47	2716.	70.
16	1325.	N.A.	N.A.	281.	11:34	2706.	49.
17	1525.	N.A.	N.A.	237.	11:15	2696.	57.
18	1236.	N.A.	N.A.	293.	12:39	2690.	46.
19	1719.	N.A.	N.A.	269.	12:45	2680.	64.
20	1612.	N.A.	N.A.	303.	12:43	2672.	60.
21	1673.	N.A.	N.A.	269.	11:49	2665.	63.
22	1571.	N.A.	N.A.	281.	12: 8	2657.	59.
23	1713.	N.A.	N.A.	269.	12: 8	2649.	65.
24	1739.	N.A.	N.A.	293.	11:57	2640.	66.
25	*	N.A.	N.A.	*	*:*	2633.	*
26	*	N.A.	N.A.	*	*:*	2625.	*
27	2138.	N.A.	N.A.	262.	11:53	2618.	82.
28	1650.	N.A.	N.A.	253.	11:32	2613.	63.
29	1343.	N.A.	N.A.	262.	13:11	2606.	52.
30	1353.	N.A.	N.A.	259.	12:25	2600.	52.
31	797.	N.A.	N.A.	203.	14:34	2593.	31.
MEAN	1311.	N.A.	N.A.			2714.	
STANDARD DEVIATION	536.	N.A.	N.A.			82.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: TELEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 79/ 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: 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.	9.	294.	11.	22.	285.	9:19
2	141.	11.	141.	14.	24.	152.	17: 9
3	131.	11.	129.	14.	25.	140.	15: 4
4	213.	5.	191.	6.	17.	279.	23:31
5	72.	13.	73.	16.	30.	60.	9:45
6	309.	14.	316.	19.	32.	10.	17:30
7	*	7.	*	7.	20.	*	2:45
8	158.	11.	154.	14.	25.	165.	7:48
9	159.	13.	166.	14.	42.	97.	6:40
10	120.	8.	115.	6.	19.	106.	16: 0
11	96.	9.	95.	12.	19.	108.	7:45
12	35.	4.	47.	6.	14.	34.	13:16
13	70.	6.	84.	9.	35.	48.	17:14
14	91.	7.	85.	11.	24.	96.	15:32
15	155.	4.	126.	5.	12.	131.	9:18
16	306.	16.	313.	18.	36.	282.	17:47
17	26.	17.	32.	23.	46.	38.	14: 5
18	113.	4.	119.	5.	20.	123.	16:29
19	67.	6.	67.	7.	21.	48.	15:23
20	120.	9.	119.	13.	21.	121.	13:36
21	303.	3.	**	2.	16.	306.	23:23
22	88.	13.	76.	15.	26.	112.	13:44
23	151.	11.	151.	14.	26.	124.	14:37
24	168.	4.	166.	6.	19.	187.	13:54
25	*	1.	*	2.	11.	*	21:55
26	171.	5.	164.	6.	22.	116.	14:27
27	138.	3.	137.	5.	12.	187.	10: 7
28	324.	7.	335.	8.	18.	273.	12:57
29	6.	8.	0.	9.	16.	24.	13:32
30	113.	8.	108.	10.	25.	116.	15:53
31	125.	9.	126.	12.	20.	110.	16:20
MEAN	147.	8.	140.	10.			
STANDARD DEVIATION	86.9	4.0	84.5	5.1			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: TELEFEX COMMUNICATIONS
BLUE EARTH, MINNESOTA

REPORT PERIOD: 79/ 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	4	3	9	8	0	0	0	0	0
2	3	5	5	11	0	0	0	0	0
3	4	2	8	10	0	0	0	0	0
4	9	8	5	2	0	0	0	0	0
5	0	3	12	6	3	0	0	0	0
6	0	4	5	10	5	0	0	0	0
7	6	8	8	2	0	0	0	0	0
8	0	3	13	8	0	0	0	0	0
9	0	0	15	9	0	0	0	0	0
10	5	7	9	2	0	0	0	0	1
11	6	1	12	5	0	0	0	0	0
12	10	12	2	0	0	0	0	0	0
13	7	9	8	0	0	0	0	0	0
14	11	3	3	7	0	0	0	0	0
15	10	12	2	0	0	0	0	0	0
16	0	0	7	10	7	0	0	0	0
17	3	2	2	7	6	4	0	0	0
18	15	4	3	2	0	0	0	0	0
19	11	3	7	2	0	0	0	0	0
20	4	4	9	7	0	0	0	0	0
21	16	2	5	1	0	0	0	0	0
22	1	0	10	13	0	0	0	0	0
23	5	1	7	11	0	0	0	0	0
24	12	8	4	0	0	0	0	0	0
25	6	2	2	0	0	0	0	0	14
26	9	5	2	1	0	0	0	0	7
27	14	7	0	0	0	0	0	0	3
28	2	10	12	0	0	0	0	0	0
29	3	7	14	0	0	0	0	0	0
30	8	3	7	6	0	0	0	0	0
31	2	3	17	1	0	0	0	0	1
AVERAGE	6.0	4.5	7.2	4.6	0.7	0.1	0.0	0.0	0.8
TOTAL	186	141	224	142	21	4	0	0	26

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ZEIN MECHANICAL
MILWAUKEE, WISCONSIN

REPORT PERIOD: 79/ 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

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.	47.	38.	51.	11:39	31.	4:17	60.
2	47.	48.	46.	54.	8:41	43.	4:57	61.
3	48.	51.	45.	58.	15:38	42.	23:38	62.
4	43.	49.	38.	56.	13:19	34.	23:54	62.
5	50.	54.	47.	64.	16: 7	34.	2:39	62.
6	50.	46.	53.	63.	21:37	41.	5:32	62.
7	67.	71.	64.	80.	16:57	48.	1:32	65.
8	77.	79.	74.	86.	16:52	67.	4:41	68.
9	55.	55.	55.	75.	0: 4	44.	18:48	66.
10	68.	77.	59.	86.	14:28	44.	0: 3	67.
11	59.	59.	59.	72.	2: 0	44.	23:55	66.
12	49.	51.	46.	59.	16: 7	42.	23:57	65.
13	50.	55.	46.	63.	10: 5	39.	0:55	64.
14	56.	61.	52.	68.	12:52	48.	3:27	64.
15	53.	60.	46.	65.	15:36	38.	22:22	65.
16	52.	59.	46.	64.	14:21	36.	1:55	65.
17	68.	71.	64.	80.	16:10	54.	0: 2	67.
18	69.	75.	63.	82.	12:10	54.	23:59	67.
19	56.	60.	52.	69.	14:24	46.	23:49	66.
20	57.	67.	49.	73.	13: 9	44.	23:38	66.
21	48.	52.	43.	57.	11: 6	39.	4:21	66.
22	52.	55.	49.	63.	9:41	40.	0:15	65.
23	48.	50.	46.	54.	8:36	40.	23:54	65.
24	50.	56.	46.	60.	15:26	39.	2:12	64.
25	53.	59.	47.	64.	16:12	42.	3: 2	65.
26	54.	61.	47.	68.	12:12	42.	4: 6	66.
27	*	*	*	*	*:*	*	*:*	*
28	*	*	*	*	*:*	*	*:*	*
29	*	*	*	*	*:*	*	*:*	*
30	*	*	*	*	*:*	*	*:*	*
31	*	*	*	*	*:*	*	*:*	*
MEAN	55.	59.	51.					65.
STANDARD DEVIATION	8.5	9.4	8.6					2.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ZEIN MECHANICAL
MILWAUKEE, WISCONSIN

REPORT PERIOD: 79/ 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	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1443.	N.A.	N.A.	311.	10:57	2892.	50.
2	594.	N.A.	N.A.	211.	10:33	2881.	21.
3	1448.	N.A.	N.A.	311.	11:44	2870.	50.
4	1826.	N.A.	N.A.	302.	13:30	2861.	64.
5	1083.	N.A.	N.A.	291.	11:11	2851.	38.
6	1767.	N.A.	N.A.	302.	11:51	2840.	62.
7	1921.	N.A.	N.A.	294.	12:30	2829.	68.
8	1378.	N.A.	N.A.	232.	11:37	2819.	49.
9	1589.	N.A.	N.A.	270.	11: 9	2808.	57.
10	1616.	N.A.	N.A.	311.	11:21	2800.	58.
11	693.	N.A.	N.A.	267.	14: 8	2790.	25.
12	1024.	N.A.	N.A.	241.	14: 3	2780.	37.
13	842.	N.A.	N.A.	297.	12:39	2773.	30.
14	1459.	N.A.	N.A.	329.	11:48	2763.	53.
15	2026.	N.A.	N.A.	305.	12:30	2754.	74.
16	2043.	N.A.	N.A.	291.	11:41	2744.	74.
17	1817.	N.A.	N.A.	279.	11:12	2735.	66.
18	1074.	N.A.	N.A.	267.	12:42	2726.	39.
19	878.	N.A.	N.A.	288.	11:43	2720.	32.
20	1936.	N.A.	N.A.	311.	11:17	2711.	71.
21	1901.	N.A.	N.A.	314.	11: 6	2703.	70.
22	1003.	N.A.	N.A.	285.	10:50	2695.	37.
23	518.	N.A.	N.A.	159.	8:10	2687.	19.
24	1890.	N.A.	N.A.	282.	10:28	2679.	71.
25	2032.	N.A.	N.A.	288.	11:29	2671.	76.
26	2026.	N.A.	N.A.	299.	11:18	2666.	76.
27	*	N.A.	N.A.	*	*:*	2659.	*
28	*	N.A.	N.A.	*	*:*	2652.	*
29	*	N.A.	N.A.	*	*:*	2646.	*
30	*	N.A.	N.A.	*	*:*	2639.	*
31	*	N.A.	N.A.	*	*:*	2636.	*
MEAN	1455.	N.A.	N.A.			2751.	
STANDARD DEVIATION	497.	N.A.	N.A.			79.	

ZONE 4

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: BILLINGS SHIPPING
BILLINGS, MONTANA

REPORT PERIOD: 79/ 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

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.	46.	41.	52.	8:55	36.	23:46	N.A.
2	43.	47.	39.	58.	14:3	35.	23:49	N.A.
3	48.	57.	39.	75.	14:41	30.	3:34	N.A.
4	53.	57.	48.	70.	13:16	33.	4:33	N.A.
5	59.	63.	53.	74.	14:41	49.	23:9	N.A.
6	52.	55.	47.	57.	15:4E	46.	22:10	N.A.
7	47.	51.	41.	56.	11:38	35.	5:4	N.A.
8	39.	42.	36.	46.	14:26	30.	4:39	N.A.
9	38.	39.	36.	47.	15:20	33.	5:7	N.A.
10	49.	55.	44.	66.	15:20	33.	5:17	N.A.
11	50.	53.	47.	63.	13:37	42.	21:37	N.A.
12	55.	61.	50.	71.	12:1	40.	4:22	N.A.
13	58.	64.	52.	71.	15:3	46.	23:46	N.A.
14	60.	67.	52.	76.	13:18	40.	4:12	N.A.
15	66.	75.	57.	90.	14:43	43.	5:2	N.A.
16	66.	75.	57.	81.	14:25	49.	4:3	N.A.
17	60.	66.	55.	73.	14:40	48.	4:32	N.A.
18	61.	69.	54.	77.	15:16	46.	5:19	N.A.
19	57.	63.	51.	71.	14:18	43.	4:47	N.A.
20	59.	64.	53.	72.	15:22	40.	4:36	N.A.
21	66.	76.	56.	68.	18:55	44.	3:48	N.A.
22	61.	69.	54.	76.	15:33	45.	4:47	N.A.
23	65.	73.	58.	83.	15:33	43.	4:32	N.A.
24	68.	78.	59.	95.	14:42	46.	4:5	N.A.
25	70.	78.	62.	85.	15:0	54.	23:59	N.A.
26	71.	79.	62.	91.	15:6	47.	4:20	N.A.
27	70.	80.	61.	85.	13:6	57.	4:36	N.A.
28	51.	51.	51.	59.	0:56	44.	23:4	N.A.
29	45.	46.	44.	51.	8:46	42.	23:52	N.A.
30	50.	56.	43.	67.	11:21	37.	4:35	N.A.
31	49.	52.	46.	61.	14:56	39.	4:16	N.A.
MEAN	56.	62.	50.					N.A.
STANDARD DEVIATION	9.5	11.8	7.6					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: BILLINGS SHIPPING
BILLINGS, MONTANAREPORT PERIOD: 79/ 5
SITE NUMBER: 195LATITUDE: 45.48 DEG NORTH
LONGITUDE: 108.32 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 50 DEGTIME ZONE: MOUNTAIN
ALTITUDE: 3567 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT 2	TOTAL DIFF INSOLATION BTJ/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	374.	N.A.	N.A.	115.	8:34	3054.	12.
2	1141.	N.A.	N.A.	315.	13:15	3046.	37.
3	2077.	N.A.	N.A.	312.	11:55	3037.	68.
4	1238.	N.A.	N.A.	302.	10:46	3029.	41.
5	1318.	N.A.	N.A.	312.	13:42	3020.	44.
6	*	N.A.	N.A.	*	*:*	3012.	*
7	2089.	N.A.	N.A.	349.	12:10	3007.	69.
8	894.	N.A.	N.A.	165.	10:52	2998.	30.
9	652.	N.A.	N.A.	206.	14:11	2990.	22.
10	2107.	N.A.	N.A.	355.	11:36	2982.	71.
11	865.	N.A.	N.A.	349.	12:12	2974.	29.
12	1529.	N.A.	N.A.	308.	11:34	2966.	52.
13	1830.	N.A.	N.A.	337.	12:12	2959.	62.
14	2115.	N.A.	N.A.	345.	12: 0	2951.	72.
15	1929.	N.A.	N.A.	299.	12: 9	2943.	66.
16	1051.	N.A.	N.A.	218.	13:32	2936.	36.
17	2036.	N.A.	N.A.	324.	12: 5	2929.	70.
18	1909.	N.A.	N.A.	333.	12:26	2922.	65.
19	2179.	N.A.	N.A.	305.	12:36	2915.	75.
20	2196.	N.A.	N.A.	299.	11:54	2908.	76.
21	2004.	N.A.	N.A.	299.	12:48	2904.	69.
22	2165.	N.A.	N.A.	293.	12:10	2897.	75.
23	2189.	N.A.	N.A.	296.	11:54	2891.	76.
24	1720.	N.A.	N.A.	308.	10:18	2884.	60.
25	2076.	N.A.	N.A.	324.	11:43	2878.	72.
26	2080.	N.A.	N.A.	293.	11:48	2872.	72.
27	1771.	N.A.	N.A.	299.	13: 6	2866.	62.
28	672.	N.A.	N.A.	215.	12:40	2861.	16.
29	338.	N.A.	N.A.	109.	8:46	2855.	12.
30	1657.	N.A.	N.A.	333.	12:25	2853.	58.
31	1268.	N.A.	N.A.	302.	12:43	2848.	45.
MEAN	1576.	N.A.	N.A.			2941.	
STANDARD DEVIATION	604.	N.A.	N.A.			64.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: DESIGN CONSTRUCTION
BIG FORK, MONTANA

REPORT PERIOD: 79/ 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

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.	48.	44.	55.	16: 2	38.	23:52	
2	47.	51.	43.	60.	15:55	36.	2:44	
3	51.	55.	46.	67.	17:30	33.	5:25	
4	46.	46.	46.	52.	0: 2	44.	3: 9	
5	45.	47.	44.	51.	15:26	42.	23:53	
6	41.	38.	43.	47.	20:35	37.	11:58	
7	47.	50.	43.	60.	12:36	39.	7: 6	
8	46.	52.	41.	59.	11:53	35.	5:13	
9	46.	51.	40.	57.	11:42	33.	2:59	
10	46.	50.	41.	57.	16:28	34.	4:12	
11	51.	54.	47.	66.	16:43	40.	6: 8	
12	49.	52.	46.	55.	17:40	36.	3:18	
13	51.	55.	46.	62.	16:20	39.	3:32	
14	53.	58.	47.	69.	18:14	32.	5:10	
15	56.	63.	49.	77.	16:43	38.	4:59	
16	51.	52.	48.	58.	14:13	37.	23:59	
17	49.	55.	43.	63.	16:16	32.	5:20	
18	53.	55.	51.	60.	17:11	48.	5: 0	
19	54.	58.	50.	68.	17:34	43.	5:43	
20	53.	57.	48.	67.	14:28	34.	5: 2	
21	60.	65.	56.	74.	15:44	47.	23:44	
22	60.	67.	53.	79.	17:45	40.	4:30	
23	64.	70.	57.	82.	16:12	48.	5:32	
24	57.	58.	56.	66.	16:45	52.	5:21	
25	59.	64.	55.	71.	14:39	48.	1:41	
26	62.	67.	57.	77.	15:17	45.	4:47	
27	55.	58.	53.	67.	16:37	43.	23:55	
28	46.	49.	43.	57.	17: 4	35.	2:24	
29	41.	*	41.	43.	2:26	38.	1: 4	
30	*	*	*	*	*:*	*	*:*	
31	49.	60.	48.	61.	17:46	41.	23:43	
MEAN	51.	55.	47.					
STANDARD DEVIATION	6.0	7.0	5.2					

ENVIRONMENTAL SUMMARY REPORT

SITE: DESIGN CONSTRUCTION
BIG FORK, MONTANA

REPORT PERIOD: 75/ 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 TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	870.	N.A.	N.A.	289.	14:58	3235.	27.
2	1925.	N.A.	N.A.	333.	11:34	3230.	60.
3	1293.	N.A.	N.A.	268.	14:40	3226.	40.
4	206.	N.A.	N.A.	65.	14:37	3221.	6.
5	*	N.A.	N.A.	*	*:*	3216.	*
6	206.	N.A.	N.A.	58.	16:14	3212.	6.
7	2111.	N.A.	N.A.	418.	12:31	3204.	66.
8	1297.	N.A.	N.A.	370.	12:20	3199.	41.
9	2197.	N.A.	N.A.	326.	12:46	3195.	69.
10	1171.	N.A.	N.A.	312.	13:37	3190.	37.
11	1979.	N.A.	N.A.	329.	12:27	3186.	62.
12	1116.	N.A.	N.A.	269.	11: 2	3181.	35.
13	1283.	N.A.	N.A.	357.	12:36	3176.	40.
14	1974.	N.A.	N.A.	312.	13:10	3172.	62.
15	1489.	N.A.	N.A.	316.	12: 1	3167.	47.
16	783.	N.A.	N.A.	340.	13:14	3163.	25.
17	1336.	N.A.	N.A.	302.	11:17	3158.	42.
18	891.	N.A.	N.A.	343.	12:17	3154.	28.
19	2110.	N.A.	N.A.	312.	12:33	3149.	67.
20	1936.	N.A.	N.A.	323.	13:24	3145.	62.
21	2225.	N.A.	N.A.	336.	12: 0	3141.	71.
22	2154.	N.A.	N.A.	306.	12:25	3137.	69.
23	2068.	N.A.	N.A.	302.	12:33	3133.	66.
24	936.	N.A.	N.A.	289.	14:26	3129.	30.
25	2263.	N.A.	N.A.	308.	11:54	3125.	72.
26	1986.	N.A.	N.A.	316.	12:42	3121.	64.
27	1829.	N.A.	N.A.	312.	12:48	3118.	59.
28	1316.	N.A.	N.A.	329.	14: 3	3114.	42.
29	*	N.A.	N.A.	*	*:*	3110.	*
30	*	N.A.	N.A.	*	*:*	3107.	*
31	*	N.A.	N.A.	*	*:*	3101.	*
MEAN	1517.	N.A.	N.A.			3165.	
STANDARD DEVIATION	609.	N.A.	N.A.			40.	

ZONE 5

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: LANDURA CORPORATION
STAYTON, OREGON

REPORT PERIOD: 79/ 5
SITE NUMBER: 156

LATITUDE: 45.00 DEG NORTH
LONGITUDE: 123.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: PACIFIC
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	53.	56.	51.	61.	12:38	49.	23:50	
2	54.	58.	51.	63.	15:45	47.	4:22	
3	56.	65.	50.	72.	13:12	43.	3:52	
4	52.	53.	51.	55.	15: 4	49.	4:18	
5	50.	50.	50.	55.	17:58	45.	23:34	
6	47.	52.	45.	61.	14:14	43.	2:35	
7	46.	48.	45.	56.	10: 9	43.	1:20	
8	50.	54.	48.	58.	14:23	43.	5: 8	
9	51.	57.	48.	63.	15: 3	40.	23:56	
10	51.	59.	45.	69.	14:50	36.	4:47	
11	55.	63.	49.	68.	16:18	38.	4:28	
12	57.	65.	52.	71.	16:22	42.	4:34	
13	58.	65.	54.	73.	15:39	41.	4:43	
14	62.	71.	57.	78.	16:17	45.	4:54	
15	59.	69.	53.	75.	18:39	45.	5: 5	
16	58.	63.	54.	69.	15:11	48.	0: 1	
17	57.	64.	53.	73.	16: 3	40.	4:51	
18	59.	65.	55.	70.	15:17	48.	23:59	
19	59.	64.	56.	74.	16:12	44.	4:15	
20	64.	73.	59.	79.	14:41	45.	4:44	
21	66.	76.	60.	82.	14:55	47.	3:51	
22	58.	61.	55.	65.	12:31	51.	3:11	
23	62.	68.	58.	74.	11: 8	55.	1:57	
24	62.	69.	59.	72.	16: 5	48.	23:49	
25	66.	76.	60.	86.	17:48	45.	3:40	
26	57.	62.	54.	67.	12: 1	44.	23: 3	
27	51.	57.	47.	66.	11:12	41.	23:44	
28	48.	54.	45.	61.	13:47	39.	0:54	
29	52.	59.	48.	64.	17: 2	35.	4: 3	
30	60.	68.	55.	76.	15:59	39.	4:31	
31	66.	74.	62.	83.	16: 6	44.	4:33	
MEAN	56.	62.	53.					
STANDARD DEVIATION	5.7	7.5	5.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: LANDURA CORPORATION
STAYTON, OREGON

REPORT PERIOD: 79/ 5
SITE NUMBER: 156

LATITUDE: 45.00 DEG NORTH
LONGITUDE: 123.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: PACIFIC
ALTITUDE: 1000 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	PERCENT
				BTU/HR/FT2		
				TIME		
				HR:MN		
1	608.	220.	388.	188.	1428.	43.
2	1933.	963.	970.	330.	1408.	137.
3	1556.	737.	819.	252.	1388.	112.
4	375.	119.	257.	61.	1369.	27.
5	754.	297.	457.	239.	1351.	56.
6	1234.	541.	693.	346.	1332.	93.
7	793.	299.	493.	350.	1316.	60.
8	1053.	416.	637.	269.	1298.	81.
9	1710.	706.	1004.	375.	1281.	134.
10	1910.	873.	1037.	320.	1263.	151.
11	2229.	966.	1264.	295.	1247.	179.
12	2221.	941.	1280.	288.	1232.	180.
13	2144.	947.	1197.	285.	1216.	176.
14	2183.	901.	1281.	282.	1201.	182.
15	2157.	917.	1240.	288.	1186.	182.
16	1727.	697.	1030.	359.	1171.	147.
17	2146.	828.	1318.	285.	1157.	186.
18	2030.	845.	1185.	311.	1143.	178.
19	2228.	871.	1357.	291.	1129.	197.
20	1995.	753.	1242.	304.	1116.	179.
21	2141.	824.	1318.	285.	1104.	194.
22	535.	173.	362.	136.	1092.	49.
23	1137.	446.	691.	295.	1080.	105.
24	2089.	766.	1323.	346.	1069.	196.
25	2200.	794.	1407.	288.	1058.	208.
26	1192.	394.	798.	259.	1046.	114.
27	1439.	523.	916.	327.	1037.	139.
28	1243.	429.	814.	356.	1026.	121.
29	2315.	834.	1481.	304.	1017.	228.
30	2307.	818.	1489.	298.	1008.	229.
31	2264.	797.	1467.	295.	1000.	226.
MEAN	1673.	666.	1007.		1186.	
STANDARD DEVIATION	609.	259.	366.		131.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: OLYMPIC ENGINEERING
RICHLAND, WASHINGTON

REPORT PERIOD: 79/ 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.	75.	58.	82.	14:31	53.	23:29	
2	65.	75.	55.	83.	14:46	46.	4:59	
3	69.	78.	60.	89.	14: 7	45.	4:26	
4	63.	66.	59.	74.	12:20	54.	23:59	
5	57.	61.	53.	66.	9:40	47.	23:59	
6	57.	64.	50.	71.	16:18	45.	4:58	
7	58.	67.	49.	77.	12:48	39.	4:48	
8	59.	67.	52.	79.	14:16	45.	4:40	
9	61.	69.	53.	78.	12:30	47.	23:10	
10	59.	66.	53.	76.	15:58	43.	4: 3	
11	62.	72.	53.	82.	16:25	41.	4:52	
12	66.	77.	57.	89.	14:22	46.	3:37	
13	68.	78.	60.	86.	15:48	51.	5:14	
14	71.	83.	61.	93.	14:47	49.	4: 2	
15	70.	80.	61.	92.	15: 8	49.	3:40	
16	67.	74.	60.	80.	14: 4	54.	3:45	
17	67.	76.	59.	84.	13:17	46.	4:23	
18	67.	77.	57.	84.	13: 8	48.	4:20	
19	66.	76.	56.	83.	15:30	47.	3:42	
20	69.	80.	59.	89.	14:10	43.	4:13	
21	75.	85.	65.	92.	14:15	53.	3:35	
22	78.	89.	66.	101.	16:22	52.	4:22	
23	74.	80.	67.	89.	15:14	62.	5: 6	
24	73.	83.	65.	90.	12:45	56.	4:39	
25	74.	86.	64.	93.	14:43	50.	4:25	
26	69.	79.	60.	84.	12:19	54.	4:14	
27	59.	69.	50.	78.	14:24	44.	4:19	
28	54.	60.	47.	71.	11: 8	40.	4:11	
29	61.	72.	51.	80.	15:31	40.	4:13	
30	66.	77.	57.	87.	14:44	44.	3:58	
31	72.	84.	62.	93.	14:15	49.	4: 7	
MEAN	66.	75.	57.					
STANDARD DEVIATION	6.1	7.3	5.4					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: OLYMPIC ENGINEERING
RICHLAND, WASHINGTON

REPORT PERIOD: 79/ 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

INSCLATICA

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS
	INSOLATION	INSCLATICA	INSCLATICA	INSCLATICA		
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	INSOLATION	EXT INS
				BTU/HR/FT2	BTU/FT2	PERCENT
				TIME		
				FR:MN		
1	1615.	N.A.	N.A.	360.	2899.	56.
2	2287.	N.A.	N.A.	312.	2888.	79.
3	1912.	N.A.	N.A.	291.	2877.	66.
4	565.	N.A.	N.A.	228.	2866.	34.
5	632.	N.A.	N.A.	141.	2858.	22.
6	2283.	N.A.	N.A.	351.	2847.	80.
7	2003.	N.A.	N.A.	357.	2837.	71.
8	1730.	N.A.	N.A.	333.	2826.	61.
9	2234.	N.A.	N.A.	336.	2816.	79.
10	1452.	N.A.	N.A.	330.	2806.	52.
11	2340.	N.A.	N.A.	318.	2798.	84.
12	1979.	N.A.	N.A.	318.	2788.	71.
13	2289.	N.A.	N.A.	327.	2778.	82.
14	2299.	N.A.	N.A.	309.	2771.	83.
15	1467.	N.A.	N.A.	315.	2762.	54.
16	1889.	N.A.	N.A.	348.	2753.	69.
17	2211.	N.A.	N.A.	303.	2743.	81.
18	2200.	N.A.	N.A.	330.	2735.	80.
19	2269.	N.A.	N.A.	333.	2726.	83.
20	2050.	N.A.	N.A.	318.	2717.	77.
21	2292.	N.A.	N.A.	306.	2711.	85.
22	2250.	N.A.	N.A.	306.	2703.	83.
23	1451.	N.A.	N.A.	267.	2695.	54.
24	2280.	N.A.	N.A.	315.	2688.	85.
25	2277.	N.A.	N.A.	309.	2680.	85.
26	1818.	N.A.	N.A.	294.	2673.	66.
27	2298.	N.A.	N.A.	327.	2666.	86.
28	1476.	N.A.	N.A.	372.	2659.	85.
29	2356.	N.A.	N.A.	315.	2655.	89.
30	2321.	N.A.	N.A.	312.	2648.	88.
31	2301.	N.A.	N.A.	309.	2642.	87.
MEAN	1977.	N.A.	N.A.		2758.	
STANDARD DEVIATION	436.	N.A.	N.A.		79.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: TWIN CITY BUILDERS
COGS BAY, CREGG

REPORT PERIOD: 79/ 5
SITE NUMBER: 49

LATITUDE: 43.35 DEG NORTH
LONGITUDE: 124.20 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 54 DEG

TIME ZONE: PACIFIC
ALTITUDE: 2000 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.	45.	56.	11:21	48.	2:38	*
2	53.	57.	49.	65.	10:10	46.	23: 8	*
3	52.	54.	45.	58.	13:32	44.	1:38	*
4	52.	54.	51.	57.	11:40	49.	3:40	*
5	52.	54.	50.	59.	11:34	46.	23:36	*
6	48.	49.	47.	56.	17:35	45.	10:48	*
7	46.	48.	45.	54.	17:51	43.	23:44	*
8	48.	50.	47.	59.	13:17	42.	1:49	*
9	50.	53.	48.	58.	14:25	41.	23:37	*
10	49.	55.	44.	66.	10: 6	37.	4:41	*
11	52.	58.	47.	64.	9:41	39.	5: 4	*
12	52.	57.	48.	61.	12: 9	43.	4:43	*
13	53.	55.	50.	61.	8:40	48.	5:51	*
14	53.	54.	51.	58.	11:15	50.	5: 1	*
15	54.	57.	51.	61.	10:47	49.	22:53	*
16	54.	57.	51.	61.	11:21	49.	2: 6	*
17	55.	59.	50.	67.	10: 2	47.	5:20	*
18	55.	59.	51.	61.	11:52	48.	23:52	*
19	54.	56.	46.	62.	12:46	44.	4:34	*
20	56.	63.	50.	72.	10:28	45.	2:38	*
21	57.	62.	53.	68.	13: 4	47.	0:27	*
22	60.	62.	57.	71.	14:41	54.	5:31	*
23	56.	63.	55.	70.	9:51	54.	23:22	*
24	58.	61.	54.	66.	11:26	50.	23:54	*
25	61.	70.	53.	60.	8:52	47.	3: 6	*
26	64.	66.	61.	60.	13: 3	47.	23:59	*
27	53.	58.	48.	68.	7:43	43.	4:15	*
28	52.	58.	48.	61.	8:21	43.	2:40	*
29	53.	58.	48.	62.	10:28	40.	4:46	*
30	55.	62.	49.	66.	16: 7	43.	3:57	*
31	56.	63.	46.	70.	9:57	43.	4:48	*
MEAN	53.	57.	50.					0.
STANDARD DEVIATION	3.4	4.8	2.9					*****

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: TWIN CITY BUILDERS
COCS BAY, CREGEN

REPORT PERIOD: 79/ 5
SITE NUMBER: 49

LATITUDE: 43.35 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 124.20 DEG WEST PYRANOMETER TILT: 54 DEG ALTITUDE: 2000 FEET

INSCLATICA

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	TIME	EXTRATERRESTRIAL	TTL INS
	INSCLATICA	INSCLATICA	INSCLATICA	INSCLATICA		INSCLATICA	EXT INS
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	HR:MM	BTU/FT2	PERCENT
1	691.	N.A.	N.A.	312.	11:21	2872.	24.
2	2001.	N.A.	N.A.	296.	12:34	2860.	70.
3	418.	N.A.	N.A.	99.	12:55	2849.	15.
4	355.	N.A.	N.A.	68.	10:52	2838.	13.
5	1148.	N.A.	N.A.	333.	13: 1	2827.	41.
6	600.	N.A.	N.A.	163.	17:12	2818.	21.
7	811.	N.A.	N.A.	290.	15:22	2807.	29.
8	743.	N.A.	N.A.	324.	12:56	2796.	27.
9	1881.	N.A.	N.A.	308.	12:49	2788.	67.
10	2082.	N.A.	N.A.	302.	12:30	2778.	75.
11	2072.	N.A.	N.A.	299.	12:48	2767.	75.
12	2074.	N.A.	N.A.	293.	12:52	2757.	75.
13	1591.	N.A.	N.A.	308.	13:24	2747.	58.
14	614.	N.A.	N.A.	201.	11:41	2740.	22.
15	1864.	N.A.	N.A.	293.	13: 6	2730.	68.
16	1846.	N.A.	N.A.	290.	12:51	2720.	68.
17	2015.	N.A.	N.A.	287.	13: 4	2711.	74.
18	2045.	N.A.	N.A.	293.	13: 1	2702.	76.
19	1980.	N.A.	N.A.	293.	12:57	2693.	74.
20	1895.	N.A.	N.A.	293.	12:57	2686.	71.
21	930.	N.A.	N.A.	213.	10:51	2678.	35.
22	568.	N.A.	N.A.	154.	13:42	2669.	21.
23	1130.	N.A.	N.A.	247.	15:27	2661.	42.
24	1885.	N.A.	N.A.	281.	12:52	2656.	71.
25	1953.	N.A.	N.A.	284.	13: 3	2648.	74.
26	1245.	N.A.	N.A.	284.	13: 3	2641.	47.
27	2027.	N.A.	N.A.	308.	13:41	2633.	77.
28	2004.	N.A.	N.A.	293.	13: 4	2626.	76.
29	2016.	N.A.	N.A.	290.	13:13	2619.	77.
30	1766.	N.A.	N.A.	268.	14:26	2613.	68.
31	2013.	N.A.	N.A.	287.	13:25	2606.	77.
MEAN	1493.	N.A.	N.A.			2727.	
STANDARD DEVIATION	616.	N.A.	N.A.			81.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: WASHINGTON NAT GAS
SEATTLE, WASHINGTON

REPORT PERIOD: 79/ 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

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.	54.	58.	14:56	52.	6:38	68.
2	56.	59.	54.	66.	13:33	50.	5:14	60.
3	58.	61.	54.	65.	15:38	50.	4:26	65.
4	59.	57.	53.	64.	13:23	51.	4:8	59.
5	53.	56.	50.	62.	12:20	48.	22:34	59.
6	52.	56.	49.	62.	15:43	47.	5:30	58.
7	54.	60.	45.			45.	4:50	57.
8	54.	58.	50.	65.	14:1	47.	4:3	56.
9	54.	56.	51.	66.	15:4	48.	2:11	56.
10	53.	58.	50.	71.	2:3	46.	5:37	60.
11	54.	59.	50.	71.	13:40	47.	3:21	58.
12	55.	60.	51.	68.	14:44	46.	4:36	59.
13	58.	61.	54.	71.	14:52	51.	4:1	60.
14	61.	64.	58.	72.	25:52	47.	6:11	61.
15	58.	64.	53.	77.	18:49	48.	5:29	63.
16	56.	58.	53.	69.	14:44	50.	6:44	71.
17	55.	59.	51.	71.	14:54	46.	4:52	67.
18	56.	61.	52.	68.	14:7	48.	23:54	60.
19	56.	61.	51.	65.	17:16	43.	4:53	65.
20	59.	64.	53.	75.	16:22	45.	5:5	60.
21	62.	67.	57.	77.	15:7	47.	4:53	58.
22	62.	66.	58.	73.	13:27	50.	4:33	68.
23	64.	67.	61.	77.	16:55	57.	4:48	65.
24	63.	67.	59.	75.	15:23	53.	23:50	72.
25	65.	71.	60.	82.	14:46	51.	4:38	65.
26	58.	60.	56.	68.	12:28	51.	23:40	*
27	52.	55.	48.	62.	13:16	43.	23:14	*
28	52.	55.	45.	66.	17:27	44.	3:24	66.
29	55.	59.	52.	67.	14:1	47.	1:51	*
30	58.	64.	53.	74.	15:2	44.	5:31	*
31	63.	69.	57.	80.	15:24	47.	4:22	*
MEAN	57.	61.	53.					62.
STANDARD DEVIATION	3.8	4.5	3.4					4.5

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: WASHINGTON NAT GAS
SEATTLE, WASHINGTON

REPORT PERIOD: 79/ 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 INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS EXT INS PERCENT
1	164.	N.A.	N.A.	49.	14:34	2909.	6.
2	1240.	N.A.	N.A.	280.	11:54	2898.	43.
3	810.	N.A.	N.A.	198.	10:28	2888.	28.
4	796.	N.A.	N.A.	246.	13: 7	2877.	28.
5	887.	N.A.	N.A.	313.	12:15	2866.	31.
6	1136.	N.A.	N.A.	301.	12:52	2856.	40.
7	1414.	N.A.	N.A.	298.	11:57	2848.	50.
8	1321.	N.A.	N.A.	304.	12:25	2837.	47.
9	795.	N.A.	N.A.	267.	13:50	2827.	28.
10	1030.	N.A.	N.A.	267.	13:10	2817.	37.
11	952.	N.A.	N.A.	295.	13: 2	2807.	34.
12	1225.	N.A.	N.A.	292.	12:12	2797.	44.
13	1429.	N.A.	N.A.	264.	10:57	2790.	51.
14	1666.	N.A.	N.A.	261.	12:20	2781.	61.
15	1417.	N.A.	N.A.	264.	12:20	2771.	51.
16	1066.	N.A.	N.A.	283.	11:53	2765.	40.
17	1258.	N.A.	N.A.	267.	11:32	2756.	46.
18	1332.	N.A.	N.A.	298.	11:49	2747.	48.
19	1720.	N.A.	N.A.	267.	12:38	2738.	63.
20	1445.	N.A.	N.A.	295.	11:18	2730.	53.
21	1666.	N.A.	N.A.	252.	12: 0	2721.	61.
22	1396.	N.A.	N.A.	258.	13:27	2713.	51.
23	1032.	N.A.	N.A.	234.	14: 3	2705.	38.
24	1617.	N.A.	N.A.	261.	11:55	2700.	60.
25	1937.	N.A.	N.A.	252.	12: 1	2693.	57.
26	837.	N.A.	N.A.	264.	12:12	2686.	38.
27	1121.	N.A.	N.A.	292.	12:18	2679.	42.
28	1107.	N.A.	N.A.	271.	13:48	2672.	41.
29	1248.	N.A.	N.A.	286.	11:32	2665.	47.
30	1659.	N.A.	N.A.	252.	12: 6	2659.	62.
31	1695.	N.A.	N.A.	495.	12:17	2653.	62.
MEAN	1226.	N.A.	N.A.			2769.	
STANDARD DEVIATION	347.	N.A.	N.A.			78.	

ZONE 6

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ALPHA CONSTRUCTION
CANTON, OHIO

REPORT PERIOD: 7/ 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

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MM	VALUE	TIME HR:MM	
1	45.	50.	39.	58.	16:36	34.	3:53	
2	54.	60.	48.	72.	15:29	33.	5:27	
3	57.	58.	56.	65.	17:17	50.	23:57	
4	43.	44.	41.	45.	0: 8	35.	23:34	
5	45.	51.	39.	55.	16:56	29.	4:54	
6	55.	62.	45.	71.	16:37	38.	5:51	
7	71.	76.	64.	81.	15:45	48.	0:47	
8	72.	78.	66.	85.	14:21	56.	2:30	
9	75.	80.	70.	88.	15:46	63.	5:22	
10	73.	77.	68.	83.	14:34	64.	5:46	
11	75.	81.	69.	87.	15:13	62.	5: 5	
12	64.	70.	58.	79.	13:10	46.	22:59	
13	52.	55.	49.	63.	15: 9	45.	23:52	
14	59.	65.	52.	73.	14:24	43.	5:31	
15	57.	62.	52.	70.	15:32	47.	23:16	
16	51.	58.	44.	64.	15:24	37.	23:56	
17	53.	62.	45.	73.	16:54	33.	4: 1	
18	61.	71.	51.	75.	14:33	40.	5:39	
19	65.	71.	59.	79.	13:38	50.	4:30	
20	67.	73.	62.	82.	14:31	59.	5:27	
21	60.	65.	55.	76.	13:57	43.	23:55	
22	53.	58.	47.	68.	14:40	39.	2:24	
23	56.	60.	52.	67.	9:25	45.	2:33	
24	52.	51.	53.	58.	0: 4	48.	23:59	
25	45.	44.	45.	45.	0: 4	43.	18:29	
26	44.	44.	44.	47.	15:28	42.	7:22	
27	51.	54.	45.	63.	16:20	44.	2:40	
28	54.	55.	52.	62.	13:34	50.	23:58	
29	56.	60.	52.	65.	14:15	47.	2:20	
30	58.	61.	54.	68.	11:15	47.	5:11	
31	62.	65.	60.	73.	11:33	53.	2:45	
MEAN	58.	62.	53.					
STANDARD DEVIATION	9.3	10.5	8.5					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ALPHA CONSTRUCTION
CANTON, OHIO

REPORT PERIOD: 79/ 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 INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS EXT INS PERCENT
1	2235.	N.A.	N.A.	353.	11:32	3255.	69.
2	2282.	N.A.	N.A.	337.	12: 7	3251.	70.
3	235.	N.A.	N.A.	111.	15:57	3247.	7.
4	397.	N.A.	N.A.	93.	11: 2	3243.	12.
5	1888.	N.A.	N.A.	381.	12:33	3239.	58.
6	2213.	N.A.	N.A.	322.	12: 5	3235.	68.
7	2526.	N.A.	N.A.	340.	12:16	3228.	78.
8	2126.	N.A.	N.A.	319.	12:13	3223.	66.
9	1987.	N.A.	N.A.	322.	12: 2	3219.	62.
10	1224.	N.A.	N.A.	319.	12:53	3215.	38.
11	1825.	N.A.	N.A.	300.	11:45	3211.	57.
12	1415.	N.A.	N.A.	269.	12:43	3207.	44.
13	902.	N.A.	N.A.	274.	12: 3	3203.	28.
14	2140.	N.A.	N.A.	340.	12: 5	3199.	67.
15	1781.	N.A.	N.A.	356.	12:15	3192.	56.
16	2273.	N.A.	N.A.	334.	11:18	3187.	71.
17	2276.	N.A.	N.A.	325.	12:17	3183.	72.
18	2306.	N.A.	N.A.	319.	11:42	3179.	73.
19	1715.	N.A.	N.A.	331.	11:31	3176.	54.
20	1819.	N.A.	N.A.	297.	11:24	3172.	57.
21	1648.	N.A.	N.A.	309.	12:53	3168.	52.
22	1750.	N.A.	N.A.	331.	11:44	3164.	55.
23	552.	N.A.	N.A.	179.	9: 8	3160.	17.
24	95.	N.A.	N.A.	50.	15:27	3157.	3.
25	123.	N.A.	N.A.	77.	12:26	3153.	4.
26	308.	N.A.	N.A.	99.	8:37	3150.	10.
27	768.	N.A.	N.A.	325.	13:41	3146.	24.
28	470.	N.A.	N.A.	226.	13:28	3143.	15.
29	1448.	N.A.	N.A.	334.	11:45	3140.	46.
30	838.	N.A.	N.A.	287.	11:19	3136.	27.
31	585.	N.A.	N.A.	195.	10:51	3133.	16.
MEAN	1424.	N.A.	N.A.			3191.	
STANDARD DEVIATION	782.	N.A.	N.A.			38.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: COLUMBIA GAS
COLUMBUS, OHIO

REPORT PERIOD: 79/ 5
SITE NUMBER: 176

LATITUDE: 40.00 DEG NORTH
LONGITUDE: 83.00 DEG WEST

AZIMUTH: -5 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: EASTERN
ALTITUDE: 755 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.	64.	48.	68. 15:38	38. 3: 4	*
2	47.	*	47.	49. 0: 4	45. 3:16	*
3	60.	62.	57.	80. 16:54		*
4	47.	47.	47.	56. 0: 2	40. 23:56	*
5	50.	56.	44.	65. 15:34	34. 5:16	*
6	60.	67.	53.	78. 16: 9	41. 4:36	*
7	70.	77.	64.	85. 15:36	52. 1:29	*
8	76.	81.	70.	91. 16:25	62. 2: 0	*
9	77.	83.	70.	91. 15:35	64. 2: 6	*
10	78.	82.	73.	92. 13:35	68. 4:37	*
11	78.	85.	73.	94. 14: 6	66. 5:13	*
12	63.	67.	60.	80. 12:14	50. 23: 8	*
13	56.	59.	52.	69. 16:18	49. 22:26	*
14	64.	70.	57.	80. 14:40	48. 4:54	*
15	62.	66.	57.	73. 14:13	51. 23:54	*
16	58.	66.	51.	73. 15:21	42. 5:24	*
17	59.	67.	51.	79. 17:17	38. 5:17	*
18	68.	77.	58.	86. 15: 1	46. 1:54	*
19	69.	76.	61.	88. 13:25	48. 4:21	*
20	74.	79.	69.	88. 14:36	63. 4:49	*
21	67.	71.	63.	78. 14:34	55. 23:59	*
22	62.	66.	57.	77. 13:59	47. 5: 5	*
23	61.	61.	60.	67. 17:18	56. 0:49	*
24	53.	53.	53.	60. 0: 9	44. 23:19	*
25	45.	46.	45.	49. 10:43	41. 20:35	*
26	53.	56.	50.	70. 16:46	43. 0:19	*
27	57.	58.	55.	68. 18: 6	49. 1:13	*
28	59.	64.	54.	73. 11:42	49. 23:15	*
29	64.	70.	57.	80. 14:53	46. 2:38	*
30	62.	68.	58.	76. 9:52	56. 5:15	*
31	66.	66.	66.	69. 18:29	62. 5:41	*
MEAN	62.	67.	58.			0.
STANDARD DEVIATION	9.1	10.1	8.2			*****

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: COLUMBIA GAS
COLUMBUS, OHIO

REPORT PERIOD: 79/ 5
SITE NUMBER: 176

LATITUDE: 40.00 DEG NORTH
LONGITUDE: 83.00 DEG WEST

AZIMUTH: -5 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: EASTERN
ALTITUDE: 755 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	*	*	*	*	***	3173.	*
2	*	*	*	*	***	3167.	*
3	1958.	356.	1602.	304.	14: 8	3161.	62.
4	200.	185.	15.	67.	14: 9	3154.	6.
5	2243.	335.	1907.	304.	12:12	3148.	71.
6	2065.	499.	1567.	294.	12: 9	3142.	66.
7	2065.	555.	1510.	320.	11:36	3136.	66.
8	1992.	500.	1492.	310.	12:14	3130.	64.
9	1860.	635.	1224.	314.	12: 7	3124.	60.
10	1605.	767.	838.	320.	12: 5	3118.	51.
11	1485.	792.	693.	294.	13:23	3112.	48.
12	1125.	712.	413.	269.	12:25	3106.	36.
13	998.	569.	429.	294.	14:47	3100.	32.
14	1799.	598.	1201.	320.	12: 0	3094.	58.
15	1722.	682.	1040.	317.	11:22	3089.	56.
16	2216.	304.	1911.	298.	12: 4	3083.	72.
17	2192.	318.	1873.	294.	12:40	3077.	71.
18	2285.	378.	1907.	282.	12: 5	3072.	74.
19	2013.	386.	1627.	285.	12:48	3067.	66.
20	1399.	881.	519.	282.	12:17	3061.	46.
21	1966.	677.	1289.	291.	12:21	3056.	64.
22	1630.	711.	919.	304.	12:49	3051.	53.
23	288.	274.	14.	67.	15:21	3046.	9.
24	143.	141.	2.	96.	12:18	3041.	5.
25	211.	204.	7.	64.	12:30	3036.	7.
26	1111.	867.	244.	256.	13:13	3032.	37.
27	1099.	567.	532.	301.	12:46	3027.	36.
28	1600.	592.	1007.	317.	11:42	3023.	53.
29	2065.	476.	1589.	282.	12: 2	3018.	68.
30	*	*	*	*	***	3014.	*
31	266.	251.	15.	58.	11:22	3010.	9.
MEAN	1486.	508.	978.			3086.	
STANDARD DEVIATION	701.	212.	668.			50.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: DAVIDSON PHILLIPS
COLUMBUS, OHIO

REPORT PERIOD: 7/ 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

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	28.	35.	21.	45.	16:33	8.	4:59	N.A.
2	44.	52.	35.	66.	16:15	14.	5:29	N.A.
3	44.	46.	42.	53.	15:28	37.	23:28	N.A.
4	26.	26.	26.	37.	0: 0	16.	23:53	N.A.
5	26.	34.	19.	42.	17:13	6.	5:34	N.A.
6	40.	49.	31.	56.	16:26	17.	4:47	N.A.
7	53.	62.	44.	71.	15:45	31.	3:17	N.A.
8	60.	68.	52.	77.	16:17	41.	3: 8	N.A.
9	61.	70.	52.	78.	15:32	43.	5: 2	N.A.
10	63.	68.	55.	76.	17:15	53.	6:17	N.A.
11	64.	72.	56.	82.	14:55	50.	5:41	N.A.
12	45.	49.	42.	61.	12:37	30.	22:35	N.A.
13	35.	39.	32.	49.	17:15	28.	22:51	N.A.
14	44.	52.	36.	61.	17:56	25.	4:48	N.A.
15	43.	48.	38.	55.	14:12	29.	23:53	N.A.
16	37.	46.	28.	53.	15:50	16.	4:54	N.A.
17	38.	50.	27.	61.	16:37	12.	5:30	N.A.
18	48.	60.	35.	70.	15:47	23.	4: 5	N.A.
19	52.	62.	41.	72.	15:31	24.	5: 7	N.A.
20	58.	64.	51.	73.	14:33	43.	5:19	N.A.
21	49.	54.	44.	60.	16:11	34.	23:55	N.A.
22	42.	48.	35.	58.	15: 6	51.	5:19	N.A.
23	42.	44.	40.	50.	16:35	32.	1:19	N.A.
24	34.	34.	34.	43.	0: 2	24.	23:17	N.A.
25	25.	28.	24.	28.	2:40	20.	19:55	N.A.
26	33.	36.	29.	48.	16:38	22.	0:11	N.A.
27	35.	42.	36.	50.	14:52	30.	1:52	N.A.
28	40.	45.	34.	58.	12:12	28.	23:56	N.A.
29	44.	52.	36.	61.	17: 6	24.	1:53	N.A.
30	54.	62.	46.	71.	14:11	37.	5:28	N.A.
31	50.	50.	49.	53.	16:36	45.	6: 1	N.A.
MEAN	44.	50.	38.					N.A.
STANDARD DEVIATION	10.9	12.6	10.1					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: DAVIDSON PHILLIPS
COLUMBUS, OHIO

REPORT PERIOD: 79/ 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

INSCLATICA

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSCLATICA VALUE BTU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATICA BTU/FT2	TTL INS EXT INS PERCENT
1	2355.	N.A.	N.A.	326.	12:43	3184.	74.
2	2205.	N.A.	N.A.	320.	12:52	3178.	69.
3	477.	N.A.	N.A.	224.	15:22	3172.	15.
4	232.	N.A.	N.A.	76.	14:12	3166.	7.
5	2308.	N.A.	N.A.	323.	13: 8	3160.	73.
6	2093.	N.A.	N.A.	320.	12:37	3152.	66.
7	2221.	N.A.	N.A.	340.	12:39	3146.	71.
8	2180.	N.A.	N.A.	326.	13:21	3140.	69.
9	1892.	N.A.	N.A.	326.	12:47	3134.	60.
10	1510.	N.A.	N.A.	351.	11:48	3128.	48.
11	1751.	N.A.	N.A.	326.	13:25	3123.	56.
12	1104.	N.A.	N.A.	277.	11:46	3117.	35.
13	935.	N.A.	N.A.	306.	14:56	3111.	30.
14	1864.	N.A.	N.A.	337.	12:25	3106.	60.
15	1999.	N.A.	N.A.	343.	13: 3	3100.	64.
16	2324.	N.A.	N.A.	320.	13: 5	3095.	75.
17	2247.	N.A.	N.A.	317.	12:42	3089.	73.
18	2214.	N.A.	N.A.	303.	13:23	3084.	72.
19	2102.	N.A.	N.A.	314.	12:56	3079.	68.
20	1471.	N.A.	N.A.	300.	12:15	3074.	48.
21	2098.	N.A.	N.A.	314.	14: 3	3069.	68.
22	1668.	N.A.	N.A.	328.	12:15	3064.	54.
23	358.	N.A.	N.A.	71.	15:25	3059.	12.
24	162.	N.A.	N.A.	85.	12:34	3054.	5.
25	227.	N.A.	N.A.	76.	12:43	3050.	7.
26	1145.	N.A.	N.A.	229.	13:15	3045.	38.
27	1243.	N.A.	N.A.	348.	12:28	3041.	41.
28	1614.	N.A.	N.A.	317.	12:38	3036.	53.
29	2124.	N.A.	N.A.	320.	13:54	3032.	70.
30	1902.	N.A.	N.A.	311.	13: 2	3028.	63.
31	326.	N.A.	N.A.	79.	13:45	3024.	11.
MEAN	1560.	N.A.	N.A.			3098.	
STANDARD DEVIATION	735.	N.A.	N.A.			49.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: FOREST CITY DILLON
WASHINGTON, D.C.

REPORT PERIOD: 79/ 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	61.	65.	57.	71.	15: 4	52.	23:47	64.
2	60.	67.	53.	77.	14: 6	43.	5: 2	64.
3	65.	70.	60.	77.	12:29	50.	4:51	66.
4	61.	64.	58.	70.	7:11	48.	23:59	66.
5	55.	61.	51.	72.	15:22	45.	4:47	66.
6	62.	70.	54.	78.	15:39	44.	5:17	67.
7	68.	77.	61.	85.	14:12	52.	4: 1	67.
8	74.	82.	67.	91.	13: 3	60.	4:36	66.
9	77.	84.	72.	90.	14:44	65.	4:56	66.
10	78.	84.	72.	93.	15:47	67.	4:46	67.
11	78.	83.	72.	90.	10:32	68.	5: 1	68.
12	68.	69.	66.	74.	16:18	65.	22:50	69.
13	68.	70.	66.	78.	11:48	63.	23:49	70.
14	61.	63.	60.	73.	14:54	56.	23:58	70.
15	67.	77.	58.	87.	15:24	51.	5:13	71.
16	64.	59.	59.	75.	15:20	54.	4:19	71.
17	61.	66.	57.	74.	15:37	51.	4: 8	71.
18	60.	63.	56.	69.	12: 6	52.	4: 6	71.
19	65.	68.	62.	75.	16:13	59.	5:58	71.
20	65.	68.	62.	78.	14:56	59.	8: 9	71.
21	66.	70.	63.	76.	10:18	58.	0:16	72.
22	67.	71.	64.	81.	16: 4	61.	1:47	71.
23	69.	73.	65.	83.	13:49	63.	0:52	71.
24	68.	71.	65.	78.	12:11	61.	23:41	71.
25	63.	68.	59.	79.	12:17	58.	22:34	71.
26	56.	58.	54.	67.	12: 7	50.	4:58	70.
27	65.	69.	61.	76.	15:13	52.	2:42	71.
28	64.	69.	60.	78.	14:42	54.	23:57	71.
29	67.	74.	59.	83.	11:44	51.	2:37	71.
30	71.	78.	65.	86.	15:42	55.	4:58	71.
31	71.	74.	67.	80.	10:55	62.	4:31	71.
MEAN	66.	71.	61.					69.
STANDARD DEVIATION	5.7	6.6	5.5					2.5

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: FOREST CITY DILLON
WASHINGTON, D.C.

REPORT PERIOD: 79/ 5
SITE NUMBER: 125

LATITUDE: 39.00 DEG NORTH
LONGITUDE: 77.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: EASTERN
ALTITUDE: 200 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	2282.	N.A.	N.A.	320.	11:52	3144.	73.
2	2177.	N.A.	N.A.	303.	11:47	3138.	69.
3	797.	N.A.	N.A.	249.	9:43	3131.	25.
4	532.	N.A.	N.A.	124.	11: 0	3124.	17.
5	2342.	N.A.	N.A.	322.	12:26	3117.	75.
6	1815.	N.A.	N.A.	337.	12:23	3111.	58.
7	2033.	N.A.	N.A.	305.	12:29	3104.	66.
8	2003.	N.A.	N.A.	305.	11:43	3100.	65.
9	2205.	N.A.	N.A.	297.	11:43	3094.	71.
10	1861.	N.A.	N.A.	294.	11: 5	3087.	60.
11	1879.	N.A.	N.A.	376.	11:57	3081.	61.
12	552.	N.A.	N.A.	161.	10:41	3075.	18.
13	640.	N.A.	N.A.	204.	13:36	3068.	21.
14	728.	N.A.	N.A.	226.	13:45	3062.	24.
15	2154.	N.A.	N.A.	294.	12:38	3056.	71.
16	2198.	N.A.	N.A.	314.	11:47	3050.	72.
17	2239.	N.A.	N.A.	325.	12:45	3044.	74.
18	888.	N.A.	N.A.	232.	9:42	3038.	29.
19	1471.	N.A.	N.A.	325.	11:30	3032.	49.
20	1330.	N.A.	N.A.	334.	11:49	3026.	44.
21	721.	N.A.	N.A.	243.	10:13	3021.	24.
22	1152.	N.A.	N.A.	249.	13:13	3015.	38.
23	729.	N.A.	N.A.	221.	10:28	3010.	24.
24	709.	N.A.	N.A.	314.	12: 6	3005.	24.
25	1296.	N.A.	N.A.	317.	11:51	3000.	43.
26	702.	N.A.	N.A.	334.	12: 7	2995.	23.
27	1299.	N.A.	N.A.	334.	10:31	2990.	43.
28	1014.	N.A.	N.A.	240.	14:37	2985.	34.
29	1576.	N.A.	N.A.	314.	11:44	2980.	53.
30	2049.	N.A.	N.A.	303.	12:21	2976.	69.
31	787.	N.A.	N.A.	178.	13:29	2972.	26.
MEAN	1425.	N.A.	N.A.			3053.	
STANDARD DEVIATION	639.	N.A.	N.A.			53.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HOGATES RESTAURANT
WASHINGTON, DC

REPORT PERIOD: 79/ 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

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.	63.	61.	71.	15:46	55.	4: 8	62.
2	61.	64.	59.	76.	15:19	47.	3:56	63.
3	66.	68.	64.	75.	10: 4	55.	4:49	63.
4	62.	65.	59.	70.	7:16	49.	23:59	63.
5	57.	58.	55.	71.	16:37	47.	4:42	63.
6	62.	65.	59.	75.	14:51	48.	5:15	63.
7	68.	71.	66.	84.	15:17	53.	4:53	63.
8	73.	77.	70.	88.	14:16	61.	3:36	64.
9	76.	79.	74.	89.	15:22	65.	4:58	66.
10	77.	80.	74.	91.	14:34	67.	4:15	68.
11	78.	81.	76.	93.	16:16	69.	3:44	70.
12	70.	70.	70.	78.	16:44	66.	2:35	72.
13	69.	71.	67.	77.	14:47	63.	23:51	73.
14	63.	63.	63.	73.	14:34	57.	5:35	72.
15	68.	72.	64.	82.	16: 5	55.	4:59	72.
16	65.	67.	63.	74.	14:22	56.	5: 7	71.
17	64.	66.	63.	78.	14:42	54.	5: 0	71.
18	62.	66.	59.	72.	12:18	54.	3:30	71.
19	66.	68.	65.	77.	15:16	60.	4:50	70.
20	67.	67.	66.	81.	15:22	60.	4:47	69.
21	66.	68.	65.	74.	9:59	61.	1:14	69.
22	69.	70.	68.	80.	14:56	62.	2:19	69.
23	68.	68.	68.	78.	14:50	-17.	10:24	60.
24	67.	67.	66.	79.	12:21	-17.	22:11	60.
25	64.	67.	62.	76.	12:14	57.	23:58	70.
26	57.	57.	57.	66.	16:51	51.	4:51	70.
27	66.	67.	65.	77.	15:37	54.	2:27	69.
28	66.	69.	63.	80.	15:16	57.	23:58	68.
29	68.	70.	67.	84.	16:37	53.	4:53	67.
30	72.	74.	70.	85.	15: 5	56.	5: 6	66.
31	72.	73.	71.	80.	14:56	66.	3:55	67.
MEAN	67.	69.	65.					67.
STANDARD DEVIATION	5.2	5.5	5.1					3.8

ENVIRONMENTAL SUMMARY REFCRT

PAGE 2

SITE: HCGATES RESTAURANT
WASHINGTON, DC

REPORT PERIOD: 79/ 5
SITE NUMBER: 42

LATITUDE: 38.90 DEG NORTH
LONGITUDE: 77.00 DEG WEST

AZIMUTH: 45 DEG
PYRANGMETER TILT: 55 DEG

TIME ZONE: EASTERN
ALTITUDE: 10 FEET

INSCLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL CIR INSOLATION BTU/FT2	MAXIMUM INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1647.	N.A.	N.A.	305.	14: 5	2849.	58.
2	1549.	N.A.	N.A.	287.	13:27	2844.	54.
3	465.	N.A.	N.A.	278.	12:17	2842.	16.
4	377.	N.A.	N.A.	101.	10:55	2836.	13.
5	1630.	N.A.	N.A.	302.	13:51	2832.	56.
6	1466.	N.A.	N.A.	317.	14: 8	2827.	52.
7	1566.	N.A.	N.A.	296.	14:13	2824.	55.
8	1489.	N.A.	N.A.	250.	13:18	2818.	53.
9	1517.	N.A.	N.A.	290.	14: 2	2814.	54.
10	1349.	N.A.	N.A.	287.	13:30	2811.	48.
11	1255.	N.A.	N.A.	311.	13:26	2807.	45.
12	532.	N.A.	N.A.	249.	15:29	2801.	19.
13	582.	N.A.	N.A.	201.	14: 4	2798.	21.
14	610.	N.A.	N.A.	243.	13:46	2794.	22.
15	1426.	N.A.	N.A.	293.	14:29	2788.	51.
16	1531.	N.A.	N.A.	293.	14:17	2784.	55.
17	1412.	N.A.	N.A.	314.	14:31	2780.	51.
18	664.	N.A.	N.A.	163.	12:12	2776.	24.
19	1166.	N.A.	N.A.	308.	15:22	2770.	42.
20	1087.	N.A.	N.A.	308.	14:18	2766.	39.
21	508.	N.A.	N.A.	157.	9:59	2765.	18.
22	818.	N.A.	N.A.	225.	14: 3	2759.	30.
23	467.	N.A.	N.A.	269.	13:41	2754.	17.
24	574.	N.A.	N.A.	305.	11:55	2750.	21.
25	1045.	N.A.	N.A.	284.	14:27	2746.	38.
26	471.	N.A.	N.A.	166.	15:31	2745.	17.
27	985.	N.A.	N.A.	278.	14:56	2739.	36.
28	873.	N.A.	N.A.	284.	14:22	2735.	32.
29	701.	N.A.	N.A.	275.	14:13	2731.	26.
30	1406.	N.A.	N.A.	278.	13:38	2730.	52.
31	658.	N.A.	N.A.	249.	13:31	2726.	24.
MEAN	1027.	N.A.	N.A.			2785.	
STANDARD DEVIATION	437.	N.A.	N.A.			38.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: J.D. EVANS
COLUMBIA, MARYLAND

REPORT PERIOD: 79/ 5
SITE NUMBER: 56

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	57.	62.	53.	65.	14:36	41.	23:51	70.
2	55.	64.	47.	72.	15:42	36.	4: 3	65.
3	62.	67.	55.	72.	13:35	48.	1:39	67.
4	60.	63.	56.	67.	5:54	48.	23:51	66.
5	53.	58.	48.	67.	15:31	41.	22:59	67.
6	57.	66.	49.	74.	14:43	38.	3:47	62.
7	64.	73.	57.	81.	14:30	46.	4:17	66.
8	70.	78.	62.	86.	13:42	54.	4:38	72.
9	75.	82.	65.	87.	14:23	62.	1:15	72.
10	75.	82.	65.	85.	15:23	61.	4:32	71.
11	75.	81.	65.	87.	14:47	64.	4:50	65.
12	66.	68.	65.	70.	16:44	63.	22:36	66.
13	66.	69.	64.	72.	14:52	60.	23:45	66.
14	60.	62.	58.	72.	14:48	53.	23:31	67.
15	64.	73.	56.	79.	13:50	47.	4:30	67.
16	60.	67.	54.	71.	15:28	50.	4:58	68.
17	55.	66.	53.	72.	16:27	45.	4:59	68.
18	55.	63.	55.	70.	12: 4	50.	2: 3	68.
19	63.	65.	60.	74.	14:54	58.	5:24	66.
20	62.	65.	59.	73.	15:32	55.	23:16	67.
21	63.	67.	60.	70.	9:55	55.	0: 4	66.
22	65.	69.	62.	78.	15:41	55.	1:31	67.
23	67.	70.	65.	78.	13:51	60.	0:45	67.
24	66.	70.	63.	77.	14: 6	60.	23:21	68.
25	61.	65.	57.	72.	13: 5	49.	22:51	68.
26	55.	67.	52.	62.	15:22	46.	23:45	66.
27	61.	66.	57.	72.	14: 5	46.	0: 1	65.
28	59.	64.	53.	74.	15: 0	49.	23:58	66.
29	64.	72.	56.	80.	14:55	48.	0:57	67.
30	68.	74.	61.	82.	16: 5	51.	4:57	67.
31	69.	72.	66.	75.	14: 5	60.	1:34	66.
MEAN	63.	68.	58.					67.
STANDARD DEVIATION	5.8	6.4	6.0					2.1

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: J.D. EVANS
COLUMBIA, MARYLANDREPORT PERIOD: 79/ 5
SITE NUMBER: 56LATITUDE: 39.14 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: EASTERN
LONGITUDE: 76.52 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 350 FEET

INSCLATIGN

DAY	TCTAL INSCLATIGN BTU/FT2	TCTAL DIFF INSCLATIGN BTU/FT2	TCTAL CIF INSCLATIGN BTU/FT2	MAXIMUM TCTAL INSCLATIGN VALUE BTU/HR/FT2	TCTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATIGN BTU/FT2	TTL INS EXT INS PERCENT
1	2321.	N.A.	N.A.	317.	12:18	3016.	77.
2	2000.	N.A.	N.A.	296.	12:51	3006.	67.
3	705.	N.A.	N.A.	211.	9:46	2997.	24.
4	520.	N.A.	N.A.	124.	11: 9	2991.	17.
5	2182.	N.A.	N.A.	326.	12:16	2982.	73.
6	1635.	N.A.	N.A.	329.	12:51	2973.	55.
7	2012.	N.A.	N.A.	259.	12:54	2964.	68.
8	1721.	N.A.	N.A.	305.	12:59	2955.	58.
9	2111.	N.A.	N.A.	250.	12:20	2949.	72.
10	1782.	N.A.	N.A.	305.	13: 9	2941.	61.
11	1702.	N.A.	N.A.	323.	12:29	2932.	58.
12	363.	N.A.	N.A.	90.	16:49	2924.	12.
13	356.	N.A.	N.A.	178.	14:47	2916.	14.
14	767.	N.A.	N.A.	250.	13:55	2907.	26.
15	1834.	N.A.	N.A.	290.	12:20	2899.	63.
16	2146.	N.A.	N.A.	308.	12:32	2891.	74.
17	2079.	N.A.	N.A.	326.	12:17	2884.	72.
18	745.	N.A.	N.A.	259.	12: 4	2876.	26.
19	1254.	N.A.	N.A.	320.	12:30	2871.	45.
20	777.	N.A.	N.A.	190.	15:26	2864.	27.
21	538.	N.A.	N.A.	166.	9:37	2857.	19.
22	1125.	N.A.	N.A.	226.	13:38	2850.	39.
23	745.	N.A.	N.A.	241.	11:43	2843.	26.
24	1088.	N.A.	N.A.	293.	13: 2	2836.	38.
25	1292.	N.A.	N.A.	305.	12:59	2830.	46.
26	1034.	N.A.	N.A.	253.	13:47	2823.	37.
27	952.	N.A.	N.A.	262.	14:14	2817.	34.
28	889.	N.A.	N.A.	271.	14: 6	2811.	32.
29	1700.	N.A.	N.A.	323.	12:51	2805.	61.
30	1722.	N.A.	N.A.	274.	11:37	2800.	62.
31	783.	N.A.	N.A.	232.	14: 5	2795.	28.
MEAN	1321.	N.A.	N.A.			2897.	
STANDARD DEVIATION	611.	N.A.	N.A.			68.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: LCUCCN COUNTY
LEESBURG, VIRGINIA

REPORT PERIOD: 79/ 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

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.	69.	14:27	44.	23:47	
2	58.	64.	52.	77.	17: 7	37.	4:40	
3	62.	65.	58.	72.	15:14	46.	4:29	
4	57.	55.	55.	64.	2:24	46.	23:55	
5	53.	57.	49.	68.	16:13	44.	4:53	
6	60.	67.	53.	79.	16: 7	39.	1:59	
7	68.	74.	61.	65.	15:56	48.	4:55	
8	72.	78.	66.	89.	13:58	56.	4: 6	
9	76.	82.	69.	90.	13:36	61.	4:43	
10	76.	82.	69.	93.	14:21	60.	5:23	
11	75.	82.	69.	93.	13:56	63.	2:55	
12	72.	75.	68.	84.	14:11	65.	4:57	
13	66.	68.	64.	73.	13:24	59.	23:48	
14	60.	62.	58.	70.	14:35	52.	23:34	
15	63.	72.	55.	83.	14:29	46.	5: 3	
16	61.	65.	57.	71.	14:59	51.	4:46	
17	60.	64.	55.	71.	17: 6	46.	3:36	
18	59.	64.	54.	71.	12:55	46.	2:20	
19	64.	68.	61.	77.	15:18	59.	5: 6	
20	66.	69.	62.	80.	14:25	57.	23:13	
21	63.	65.	60.	69.	16:38	56.	1:53	
22	67.	69.	64.	79.	15: 7	56.	5:41	
23	68.	70.	66.	77.	17:32	63.	2:15	
24	67.	70.	64.	77.	13:33	61.	23:25	
25	58.	60.	55.	68.	10:44	49.	23:59	
26	53.	56.	50.	62.	16:47	45.	22:18	
27	60.	63.	56.	73.	14: 7	44.	2:18	
28	57.	62.	53.	74.	14:17	49.	23:37	
29	64.	70.	58.	80.	13:20	47.	4:54	
30	69.	75.	62.	84.	14:14	49.	2:35	
31	67.	69.	65.	78.	14:44	55.	5:18	
MEAN	64.	68.	59.					
STANDARD DEVIATION	6.3	7.0	6.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: LOUDON COUNTY
LEESBURG, VIRGINIA

REPORT PERIOD: 79/ 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 INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	2276.	N.A.	N.A.	317.	12:13	3235.	70.
2	2154.	N.A.	N.A.	305.	12:19	3230.	67.
3	549.	N.A.	N.A.	169.	8:56	3225.	17.
4	310.	N.A.	N.A.	72.	11:39	3221.	10.
5	2271.	N.A.	N.A.	323.	12: 0	3216.	71.
6	2114.	N.A.	N.A.	314.	12:50	3212.	66.
7	2069.	N.A.	N.A.	299.	13: 0	3207.	65.
8	1803.	N.A.	N.A.	311.	12:22	3202.	56.
9	2100.	N.A.	N.A.	332.	12:27	3195.	66.
10	1868.	N.A.	N.A.	320.	13: 1	3190.	59.
11	1824.	N.A.	N.A.	314.	12:41	3185.	57.
12	1103.	N.A.	N.A.	353.	12: 4	3181.	35.
13	461.	N.A.	N.A.	202.	13:14	3176.	15.
14	1061.	N.A.	N.A.	308.	12:11	3172.	33.
15	1913.	N.A.	N.A.	305.	13:35	3167.	60.
16	2278.	N.A.	N.A.	314.	12: 8	3163.	72.
17	2245.	N.A.	N.A.	314.	12: 8	3158.	71.
18	1194.	N.A.	N.A.	278.	11:24	3154.	38.
19	1463.	N.A.	N.A.	341.	13:53	3149.	46.
20	1329.	N.A.	N.A.	317.	11:34	3145.	42.
21	431.	N.A.	N.A.	57.	16:38	3141.	14.
22	1823.	N.A.	N.A.	290.	12:16	3137.	58.
23	682.	N.A.	N.A.	178.	10:52	3133.	22.
24	1213.	N.A.	N.A.	326.	12:18	3129.	39.
25	979.	N.A.	N.A.	299.	14:23	3125.	31.
26	835.	N.A.	N.A.	272.	10: 2	3121.	27.
27	1047.	N.A.	N.A.	290.	13:25	3117.	34.
28	784.	N.A.	N.A.	269.	10:54	3114.	25.
29	1534.	N.A.	N.A.	335.	11:39	3110.	49.
30	1902.	N.A.	N.A.	290.	11:55	3107.	61.
31	652.	N.A.	N.A.	142.	13:13	3104.	21.
MEAN	1428.	N.A.	N.A.			3165.	
STANDARD DEVIATION	642.	N.A.	N.A.			40.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: LOUDON COUNTY
LEESBURG, VIRGINIA

REPORT PERIOD: 79/ 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	CAYTIME DIRECTION	CAYTIME SPEED	MAXIMUM WIND SPEED	MAXIMUM WIND DIRECTION	TIME HR:MN
1	108.	3.	105.	6.	17.	73.	8:51
2	*	1.	*	2.	11.	*	14:27
3	10.	6.	7.	9.	24.	17.	12:24
4	127.	2.	150.	1.	14.	119.	22: 8
5	136.	3.	146.	4.	13.	148.	12:16
6	*	1.	*	2.	10.	*	14:37
7	338.	3.	337.	5.	14.	354.	14:31
8	337.	3.	340.	4.	13.	347.	14:41
9	1.	4.	0.	6.	14.	15.	11: 1
10	352.	2.	352.	3.	11.	328.	15:31
11	*	1.	*	3.	11.	*	15:53
12	*	1.	*	2.	8.	*	14:39
13	*	0.	*	0.	12.	*	16:42
14	*	1.	*	1.	10.	*	11:23
15	*	1.	*	2.	19.	*	18:13
16	140.	3.	141.	5.	16.	148.	10:32
17	187.	3.	186.	5.	14.	174.	8:18
18	186.	3.	187.	4.	16.	179.	14:58
19	218.	3.	241.	4.	14.	230.	9:48
20	*	1.	*	1.	6.	*	10:41
21	*	2.	*	3.	8.	*	15: 2
22	*	1.	*	2.	14.	*	5:25
23	356.	3.	353.	5.	14.	100.	21: 5
24	56.	3.	62.	5.	14.	89.	10:47
25	*	2.	*	2.	10.	*	11:54
26	67.	2.	65.	4.	17.	48.	16:58
27	10.	4.	7.	7.	28.	350.	14:34
28	*	1.	*	1.	9.	*	15:58
29	*	1.	*	2.	12.	*	12:54
30	359.	3.	355.	5.	12.	6.	11: 2
31	*	1.	*	1.	8.	*	9:45
MEAN	176.	2.	175.	3.			
STANDARD DEVIATION	130.7	1.2	130.7	2.0			

ENVIRONMENTAL SUMMARY REPORT

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SITE: LCUODGN CCUNTY
LEESBURG, VIRGINIA

REPORT PERIOD: 79/ 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	14	5	1	0	0	0	0	0	0
2	22	2	0	0	0	0	0	0	0
3	10	3	7	4	0	0	0	0	0
4	17	6	1	0	0	0	0	0	0
5	15	9	0	0	0	0	0	0	0
6	20	4	0	0	0	0	0	0	0
7	16	6	2	0	0	0	0	0	0
8	16	8	0	0	0	0	0	0	0
9	13	8	3	0	0	0	0	0	0
10	18	6	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	24	0	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	22	2	0	0	0	0	0	0	0
16	15	5	0	0	0	0	0	0	0
17	16	8	0	0	0	0	0	0	0
18	14	10	0	0	0	0	0	0	0
19	13	11	0	0	0	0	0	0	0
20	24	0	0	0	0	0	0	0	0
21	21	3	0	0	0	0	0	0	0
22	23	1	0	0	0	0	0	0	0
23	15	5	0	0	0	0	0	0	0
24	16	8	0	0	0	0	0	0	0
25	23	1	0	0	0	0	0	0	0
26	15	7	2	0	0	0	0	0	0
27	13	6	0	2	0	0	0	0	0
28	23	1	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	15	9	0	0	0	0	0	0	0
31	21	0	0	0	0	0	0	0	0
AVERAGE	18.2	4.9	0.6	0.2	0.0	0.0	0.0	0.0	0.1
TOTAL	565	151	19	6	0	0	0	0	3

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: MCULDER
INDIANAPOLIS, INDIANA

REPORT PERIOD: 79/ 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		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	50.	54.	44.	65.	16:37	30.	4:59	
2	60.	67.	53.	78.	12:51	45.	5: 2	
3	55.	58.	53.	64.	11: 6	47.	22:18	
4	46.	48.	43.	50.	12:29	34.	23:57	
5	49.	55.	43.	63.	18:45	30.	4:24	
6	60.	67.	53.	74.	14:57	42.	4:33	
7	68.	75.	62.	83.	14:24	51.	4:32	
8	73.	80.	66.	87.	14:33	58.	4:32	
9	72.	78.	67.	83.	14:10	62.	1:32	
10	78.	81.	71.	88.	14:10	64.	5:12	
11	69.	75.	63.	81.	14:12	55.	23:43	
12	51.	50.	51.	55.	0: 4	49.	21:30	
13	55.	60.	51.	70.	18:54	39.	4:37	
14	62.	69.	55.	76.	13:39	46.	4:19	
15	59.	64.	54.	71.	15:23	46.	23:55	
16	58.	66.	49.	74.	16: 7	39.	4: 2	
17	65.	67.	62.	76.	16:45	50.	6: 0	
18	68.	75.	61.	84.	14:50	52.	5:25	
19	67.	72.	62.	79.	14:42	55.	3:22	
20	62.	68.	57.	74.	10:36	51.	23:19	
21	59.	64.	54.	70.	15:23	48.	23:49	
22	61.	68.	54.	75.	14: 0	43.	3: 9	
23	62.	71.	54.	80.	15:36	48.	22:27	
24	52.	54.	45.	60.	15:20	44.	23:46	
25	51.	55.	47.	62.	14:35	42.	23:23	
26	52.	59.	46.	70.	12:27	38.	3: 1	
27	60.	64.	56.	78.	15: 4	51.	23:58	
28	62.	71.	55.	77.	16:14	47.	23:56	
29	66.	75.	57.	83.	16:13	43.	3:35	
30	72.	80.	65.	86.	14: 6	53.	4:27	
31	71.	72.	65.	80.	14:32	66.	3:31	
MEAN	61.	67.	56.					
STANDARD DEVIATION	8.1	9.0	7.6					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: MOULDER
INDIANAPOLIS, INDIANA

REPORT PERIOD: 7/ 5
SITE NUMBER: 50

LATITUDE: 39.50 DEG NORTH
LONGITUDE: 86.25 DEG WEST

AZIMUTH: 6 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: CENTRAL
ALTITUDE: 700 FEET

INSCLATICA

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSCLATICA	INSCLATICA	INSCLATICA	INSCLATICA	INSCLATICA	INSCLATICA	
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	BTU/FT2	EXT INS	
				BTU/HR/FT2		PERCENT	
				TIME			
				HR:MM			
1	2162.	N.A.	N.A.	318.	12: 0	3033.	71.
2	1553.	N.A.	N.A.	296.	11:52	3024.	51.
3	576.	N.A.	N.A.	153.	11: 6	3015.	19.
4	479.	N.A.	N.A.	95.	10:16	3007.	16.
5	2234.	N.A.	N.A.	336.	12:23	2998.	75.
6	2207.	N.A.	N.A.	312.	12:33	2989.	74.
7	2272.	N.A.	N.A.	312.	12: 0	2981.	76.
8	2085.	N.A.	N.A.	330.	12: 4	2972.	70.
9	1746.	N.A.	N.A.	315.	12:50	2964.	59.
10	1912.	N.A.	N.A.	293.	11:30	2955.	65.
11	1399.	N.A.	N.A.	269.	11:54	2950.	47.
12	*	N.A.	N.A.	*	*:*	2941.	*
13	2144.	N.A.	N.A.	306.	11:59	2933.	73.
14	2148.	N.A.	N.A.	302.	12:19	2925.	73.
15	1918.	N.A.	N.A.	324.	12: 5	2918.	66.
16	2218.	N.A.	N.A.	302.	12: 7	2910.	76.
17	2261.	N.A.	N.A.	299.	12:24	2905.	78.
18	2141.	N.A.	N.A.	287.	12:21	2897.	74.
19	1253.	N.A.	N.A.	275.	13:59	2887.	43.
20	907.	N.A.	N.A.	235.	9:59	2880.	31.
21	1749.	N.A.	N.A.	278.	10:35	2873.	61.
22	1694.	N.A.	N.A.	287.	10:26	2866.	59.
23	1380.	N.A.	N.A.	238.	10:16	2860.	48.
24	593.	N.A.	N.A.	192.	15:20	2856.	21.
25	939.	N.A.	N.A.	214.	13:52	2850.	33.
26	1557.	N.A.	N.A.	299.	12:21	2843.	55.
27	2034.	N.A.	N.A.	299.	12:35	2837.	72.
28	2153.	N.A.	N.A.	293.	12:19	2832.	76.
29	2085.	N.A.	N.A.	290.	13: 1	2826.	74.
30	2151.	N.A.	N.A.	284.	12:36	2820.	76.
31	924.	N.A.	N.A.	309.	13:12	2815.	33.
MEAN	1696.	N.A.	N.A.			2915.	
STANDARD DEVIATION	569.	N.A.	N.A.			67.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: PADONIA SCHOOL
COCKEYVILLE, MARYLAND

REPORT PERIOD: 79/ 5
SITE NUMBER: 126

LATITUDE: 39.14 DEG NORTH
LONGITUDE: 76.52 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
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	57.	62.	53.	67.	14:22	44.	23:47	N.A.
2	55.	63.	48.	74.	14:24	37.	5:15	N.A.
3	63.	67.	59.	76.	10:29	50.	0:37	N.A.
4	61.	65.	56.	72.	8:56	48.	23:57	N.A.
5	55.	59.	50.	72.	18:17	42.	23:53	N.A.
6	56.	64.	49.	73.	13:50	37.	4: 9	N.A.
7	66.	72.	59.	81.	12:34	51.	4:52	N.A.
8	71.	78.	64.	87.	12: 2	56.	5: 6	N.A.
9	74.	81.	68.	89.	11:39	60.	4: 7	N.A.
10	75.	82.	69.	91.	12:56	62.	5: 1	N.A.
11	76.	83.	69.	91.	12:43	62.	4:56	N.A.
12	66.	67.	65.	70.	14:40	64.	22:39	N.A.
13	67.	69.	64.	75.	14:49	60.	20:47	N.A.
14	61.	63.	59.	75.	15: 8	54.	23:34	N.A.
15	64.	71.	56.	82.	11:24	49.	5:26	N.A.
16	61.	67.	54.	73.	13: 1	46.	23:57	N.A.
17	59.	68.	52.	76.	12:58	43.	3:41	N.A.
18	59.	63.	54.	71.	12:16	47.	3:54	N.A.
19	65.	69.	61.	78.	14: 3	58.	4:27	N.A.
20	63.	67.	60.	78.	15:30	55.	23:52	N.A.
21	63.	66.	60.	70.	10:50	53.	2:37	N.A.
22	66.	71.	61.	81.	14: 0	58.	0:37	N.A.
23	67.	70.	64.	77.	13:11	60.	2:32	N.A.
24	66.	70.	63.	77.	14:25	60.	23:45	N.A.
25	62.	66.	57.	75.	13:47	48.	22:24	N.A.
26	54.	57.	52.	60.	14:51	49.	0:11	N.A.
27	61.	65.	57.	72.	15: 5	49.	0:37	N.A.
28	59.	64.	54.	72.	15: 5	50.	23:54	N.A.
29	64.	71.	57.	82.	11:27	48.	3:38	N.A.
30	67.	73.	62.	80.	17:20	51.	5:15	N.A.
31	67.	70.	64.	79.	11:49	57.	3:55	N.A.
MEAN	64.	69.	59.					N.A.
STANDARD DEVIATION	5.6	6.2	5.7					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: PADONIA SCHOOL
COCKEYVILLE, MARYLANDREPORT PERIOD: 79/ 5
SITE NUMBER: 126LATITUDE: 39.14 DEG NORTH
LONGITUDE: 76.52 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEGTIME ZONE: EASTERN
ALTITUDE: 350 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.	398.	1878.	293.	11:52	3016.	75.
2	2131.	476.	1656.	285.	12:43	3006.	71.
3	832.	558.	274.	251.	9:51	2997.	28.
4	704.	528.	177.	193.	13:17	2991.	24.
5	2334.	369.	1965.	304.	11:41	2982.	78.
6	1736.	772.	965.	321.	12:20	2973.	58.
7	2142.	450.	1693.	276.	12:18	2964.	72.
8	2076.	600.	1476.	296.	11:51	2955.	70.
9	2163.	380.	1782.	285.	11:44	2949.	73.
10	1775.	720.	1055.	332.	11:15	2941.	60.
11	1755.	739.	1016.	299.	12:54	2932.	60.
12	365.	319.	46.	95.	11:12	2924.	12.
13	365.	324.	41.	131.	14:55	2916.	13.
14	779.	578.	201.	243.	14: 9	2907.	27.
15	2011.	697.	1314.	310.	12: 1	2899.	69.
16	2385.	446.	1939.	304.	12: 7	2891.	82.
17	2273.	527.	1746.	332.	12:10	2884.	79.
18	807.	661.	146.	145.	12:16	2876.	28.
19	1764.	677.	1088.	324.	11:39	2871.	51.
20	900.	702.	198.	215.	15:14	2864.	31.
21	565.	495.	70.	142.	10:39	2857.	20.
22	1284.	830.	454.	301.	12:50	2850.	45.
23	745.	602.	143.	240.	12:29	2843.	26.
24	1070.	616.	454.	293.	13: 0	2836.	38.
25	1289.	762.	527.	332.	12:53	2830.	46.
26	1287.	894.	393.	287.	10:56	2823.	46.
27	1037.	693.	344.	276.	10: 3	2817.	37.
28	978.	695.	283.	293.	12:47	2811.	35.
29	1711.	663.	1048.	315.	11:32	2805.	61.
30	1973.	800.	1173.	335.	12:43	2800.	70.
31	754.	644.	111.	198.	11:39	2795.	27.
MEAN	1428.	600.	828.			2897.	
STANDARD DEVIATION	651.	153.	675.			68.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: PADONIA SCHOOL
COCKEYVILLE, MARYLAND

REPORT PERIOD: 79/ 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	121.	4.	117.	6.	14.	131.	12:24
2	*	1.	*	2.	11.	*	13:25
3	17.	5.	14.	7.	14.	27.	11:59
4	131.	3.	146.	2.	9.	150.	18: 0
5	147.	3.	146.	4.	12.	141.	6:48
6	340.	3.	334.	3.	10.	2.	13:34
7	342.	3.	338.	4.	12.	341.	20:56
8	340.	3.	338.	4.	14.	336.	15: 3
9	19.	3.	24.	5.	11.	1.	16:32
10	*	2.	*	3.	10.	*	13:28
11	*	2.	*	2.	9.	*	22:35
12	*	2.	*	2.	6.	*	7:18
13	*	1.	*	1.	6.	*	1:19
14	*	2.	*	2.	10.	*	8:17
15	*	2.	*	2.	12.	*	19:19
16	153.	3.	153.	5.	15.	125.	13:17
17	198.	2.	202.	4.	9.	231.	13:35
18	213.	3.	208.	4.	11.	230.	12:11
19	252.	3.	259.	4.	9.	231.	3:28
20	*	1.	*	1.	5.	*	0:45
21	*	2.	*	3.	7.	*	11:54
22	*	1.	*	2.	6.	*	8:34
23	347.	2.	358.	3.	9.	1.	13:33
24	46.	4.	52.	5.	13.	29.	9:43
25	*	2.	*	3.	22.	*	14:35
26	65.	3.	68.	5.	14.	64.	14:19
27	*	1.	*	2.	7.	*	15:16
28	*	1.	*	1.	9.	*	16:15
29	*	1.	*	2.	7.	*	11:59
30	*	2.	*	3.	11.	*	12:59
31	*	1.	*	1.	5.	*	12:32
MEAN	182.	2.	184.	3.			
STANDARD DEVIATION	120.4	1.0	119.8	1.5			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: PADONIA SCHOOL
COCKEYVILLE, MARYLAND

REPORT PERIOD: 79/ 5
SITE NUMBER: 126

LATITUDE: 39.14 DEG NORTH
LONGITUDE: 76.52 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
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 39	MISSING HOJRS
1	12	11	1	0	0	0	0	0	0
2	22	2	0	0	0	0	0	0	0
3	7	14	3	0	0	0	0	0	0
4	22	2	0	0	0	0	0	0	0
5	15	9	0	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	16	8	0	0	0	0	0	0	0
9	16	8	0	0	0	0	0	0	0
10	21	3	0	0	0	0	0	0	0
11	23	1	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	22	2	0	0	0	0	0	0	0
15	21	3	0	0	0	0	0	0	0
16	14	10	0	0	0	0	0	0	0
17	19	5	0	0	0	0	0	0	0
18	18	6	0	0	0	0	0	0	0
19	17	7	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	22	2	0	0	0	0	0	0	0
24	12	12	0	0	0	0	0	0	0
25	22	2	0	0	0	0	0	0	0
26	16	7	1	0	0	0	0	0	0
27	24	0	0	0	0	0	0	0	0
28	23	1	0	0	0	0	0	0	0
29	23	1	0	0	0	0	0	0	0
30	20	4	0	0	0	0	0	0	1
31	23	0	0	0	0	0	0	0	1
AVERAGE	19.5	4.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	603	135	5	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: PAGE JACKSON
CHARLESTOWN, WEST VIRGINIA

REPORT PERIOD: 79/ 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	55.	60.	50.	68.	15:39	41.	23:34	
2	57.	64.	50.	77.	14:56	33.	4:53	
3	63.	66.	55.	71.	14:46	50.	4:54	
4	55.	56.	54.	64.	0:28	44.	23:39	
5	52.	56.	46.	73.	15:55	42.	23:57	
6	60.	68.	53.	63.	15: 3	38.	5:11	
7	69.	76.	63.	65.	14:59	49.	5:12	
8	75.	82.	68.	50.	15:43	54.	5:35	
9	76.	83.	69.	50.	15: 0	59.	5:24	
10	77.	84.	70.	54.	14:59	62.	5: 7	
11	74.	83.	65.	56.	15: 7	59.	5:25	
12	72.	76.	67.	66.	14: 8	62.	0: 5	
13	65.	67.	63.	75.	13:31	58.	23:23	
14	61.	65.	58.	72.	13:38	53.	23:56	
15	63.	72.	53.	67.	14:21	48.	4:44	
16	60.	65.	55.	70.	15:16	47.	23:59	
17	56.	63.	49.	73.	15:20	38.	4:24	
18	57.	64.	51.	70.	13:20	41.	4: 3	
19	63.	67.	55.	75.	13:52	58.	0:26	
20	65.	69.	62.	79.	15:26	58.	0:25	
21	63.	68.	61.	76.	12:53	58.	4:30	
22	66.	70.	62.	65.	14:48	52.	5:36	
23	66.	68.	64.	75.	11:39	60.	5:42	
24	66.	68.	63.	75.	13:56	60.	23:56	
25	57.	58.	55.	63.	17:28	48.	22:59	
26	52.	54.	46.	56.	15:31	45.	22: 5	
27	58.	64.	53.	74.	15:10	48.	2:11	
28	56.	59.	53.	70.	12:38	49.	3:21	
29	62.	69.	57.	76.	15:45	49.	4:59	
30	67.	74.	59.	68.	15:28	47.	4:43	
31	66.	69.	63.	77.	13:52	58.	4:27	
MEAN	63.	68.	58.					
STANDARD DEVIATION	6.6	8.0	6.4					

SITE: PAGE JACKSON
CHARLESTOWN, WEST VIRGINIA

REPORT PERIOD: 79/ 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

INSCLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2362.	N.A.	N.A.	348.	14: 8	3064.	77.
2	2252.	N.A.	N.A.	316.	14: 8	3055.	74.
3	523.	N.A.	N.A.	168.	8:33	3047.	17.
4	358.	N.A.	N.A.	116.	12:27	3039.	13.
5	2383.	N.A.	N.A.	355.	14: 8	3031.	79.
6	2131.	N.A.	N.A.	332.	13:54	3023.	70.
7	2208.	N.A.	N.A.	326.	13:49	3014.	73.
8	2175.	N.A.	N.A.	342.	13:51	3006.	72.
9	2225.	N.A.	N.A.	338.	13:46	2998.	74.
10	1738.	N.A.	N.A.	322.	11:15	2990.	58.
11	2191.	N.A.	N.A.	355.	13:47	2983.	73.
12	1179.	N.A.	N.A.	297.	12:53	2978.	40.
13	426.	N.A.	N.A.	251.	13:25	2970.	14.
14	1347.	N.A.	N.A.	322.	11:30	2963.	45.
15	1788.	N.A.	N.A.	332.	13:33	2955.	61.
16	2718.	N.A.	N.A.	384.	13:40	2948.	92.
17	2378.	N.A.	N.A.	380.	13:39	2941.	81.
18	1460.	N.A.	N.A.	313.	12:16	2934.	50.
19	1727.	N.A.	N.A.	356.	13:52	2927.	55.
20	1455.	N.A.	N.A.	364.	13:50	2920.	50.
21	438.	N.A.	N.A.	187.	12:53	2913.	15.
22	2261.	N.A.	N.A.	384.	13: 9	2907.	78.
23	817.	N.A.	N.A.	322.	11:34	2900.	28.
24	1514.	N.A.	N.A.	406.	13:21	2894.	52.
25	690.	N.A.	N.A.	255.	14: 5	2888.	24.
26	852.	N.A.	N.A.	280.	10:37	2882.	30.
27	1206.	N.A.	N.A.	371.	12:57	2876.	42.
28	807.	N.A.	N.A.	313.	11:10	2874.	28.
29	1613.	N.A.	N.A.	306.	11: 1	2868.	56.
30	1906.	N.A.	N.A.	374.	12:59	2863.	67.
31	703.	N.A.	N.A.	171.	10:29	2858.	25.
MEAN	1544.	N.A.	N.A.			2952.	
STANDARD DEVIATION	705.	N.A.	N.A.			63.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: RADEMAKER CCRP
LOUISVILLE, KENTUCKY

REPORT PERIOD: 79/ 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

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.	53.	80.	15:38	44.	6: 2	
2	64.	71.	57.	84.	13:10	47.	5:42	
3	63.	66.	60.	74.	13:49	56.	23:52	
4	50.	51.	49.	56.	0:18	42.	23:46	
5	53.	61.	46.	75.	16:41	37.	4:28	
6	60.	71.	51.	82.	15: 5	36.	5:34	
7	70.	78.	63.	87.	15:46	52.	2:58	
8	75.	83.	69.	93.	15:44	61.	2:53	
9	73.	79.	68.	91.	13:53	59.	4:28	
10	78.	86.	71.	98.	14:59	62.	5:39	
11	77.	84.	71.	94.	14:48	63.	5:28	
12	58.	57.	58.	69.	0: 3	52.	23:49	
13	59.	66.	54.	77.	15:17	46.	23:59	
14	65.	74.	56.	85.	14:48	43.	5:17	
15	65.	72.	58.	81.	14:22	53.	22:59	
16	62.	70.	55.	79.	16:58	47.	5:46	
17	62.	73.	53.	85.	16:19	42.	5: 1	
18	68.	82.	55.	96.	16: 8	40.	4:34	
19	69.	78.	61.	89.	11:30	49.	5:33	
20	66.	72.	61.	86.	11:15	55.	5: 2	
21	64.	71.	58.	80.	13:53	51.	23:39	
22	61.	68.	55.	78.	11:39	44.	4:22	
23	64.	67.	62.	73.	14:24	60.	23:54	
24	53.	53.	52.	59.	0: 0	48.	23:55	
25	47.	48.	47.	56.	17:13	42.	5:24	
26	54.	63.	46.	74.	13:50	35.	5:34	
27	64.	68.	60.	75.	14:25	52.	0:25	
28	66.	74.	59.	86.	16:54	51.	23:18	
29	69.	81.	58.	92.	14:42	45.	5: 6	
30	70.	80.	62.	89.	13: 8	49.	5:18	
31	69.	71.	67.	81.	14:30	63.	23:44	
MEAN	64.	70.	58.					
STANDARD DEVIATION	7.5	9.5	6.8					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: RADEMAKER CCRP
LOUISVILLE, KENTUCKY

REPORT PERIOD: 79/ 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

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2072.	N.A.	N.A.	296.	12:53	2729.	76.
2	1276.	N.A.	N.A.	324.	13:10	2718.	47.
3	489.	N.A.	N.A.	134.	13:44	2705.	16.
4	164.	N.A.	N.A.	68.	10: 4	2692.	6.
5	2163.	N.A.	N.A.	307.	13: 0	2682.	81.
6	2165.	N.A.	N.A.	304.	12:57	2669.	81.
7	2130.	N.A.	N.A.	301.	12:45	2656.	80.
8	2041.	N.A.	N.A.	301.	13:20	2644.	77.
9	885.	N.A.	N.A.	287.	13:48	2634.	34.
10	1741.	N.A.	N.A.	304.	12: 3	2622.	66.
11	1500.	N.A.	N.A.	290.	14:27	2612.	57.
12	249.	N.A.	N.A.	60.	10: 5	2601.	10.
13	2027.	N.A.	N.A.	324.	12:37	2589.	78.
14	2058.	N.A.	N.A.	304.	12:29	2578.	80.
15	2088.	N.A.	N.A.	296.	12:30	2569.	81.
16	2116.	N.A.	N.A.	299.	12:53	2558.	83.
17	2136.	N.A.	N.A.	301.	12:56	2548.	84.
18	2045.	N.A.	N.A.	290.	12:45	2537.	81.
19	1251.	N.A.	N.A.	256.	11:25	2529.	49.
20	688.	N.A.	N.A.	216.	11:10	2519.	27.
21	1400.	N.A.	N.A.	279.	13:47	2512.	56.
22	905.	N.A.	N.A.	185.	10:56	2503.	36.
23	407.	N.A.	N.A.	102.	13:57	2493.	16.
24	219.	N.A.	N.A.	60.	11: 2	2484.	9.
25	463.	N.A.	N.A.	105.	17:13	2476.	15.
26	1530.	N.A.	N.A.	299.	13:13	2469.	62.
27	886.	N.A.	N.A.	267.	13:18	2461.	36.
28	1877.	N.A.	N.A.	301.	12:44	2453.	77.
29	1936.	N.A.	N.A.	293.	12:44	2446.	79.
30	1478.	N.A.	N.A.	313.	13:13	2438.	61.
31	538.	N.A.	N.A.	169.	13:58	2431.	22.
MEAN	1385.	N.A.	N.A.			2566.	
STANDARD DEVIATION	707.	N.A.	N.A.			91.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SIR GALAHAD
VIRGINIA BEACH, VIRGINIA

REPORT PERIOD: 79/ 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	60.	69.	52.	60.	15:16	46.	23:48	
2	59.	70.	49.	70.	13:46	42.	4:42	
3	67.	75.	60.	64.	14:49	48.	4:36	
4	74.	79.	70.	67.	16:53	65.	5: 4	
5	57.	60.	54.	70.	16:47	47.	23:38	
6	59.	70.	49.	70.	13:14	42.	3:59	
7	67.	77.	57.	64.	14:54	49.	2: 7	
8	72.	81.	64.	68.	15:13	57.	2:12	
9	74.	83.	66.	61.	14:27	57.	5:12	
10	71.	76.	67.	60.	13:10	62.	4:11	
11	74.	80.	69.	61.	14:32	65.	23:14	
12	72.	76.	68.	68.	15: 3	65.	0:18	
13	73.	77.	70.	69.	12:12	65.	23: 3	
14	64.	64.	62.	70.	10:17	60.	13:56	
15	65.	69.	62.	78.	13:56	60.	22:38	
16	67.	72.	61.	78.	16:35	57.	21: 1	
17	64.	67.	60.	72.	15: 5	58.	23:59	
18	58.	58.	59.	61.	18:47	56.	12:17	
19	61.	63.	59.	73.	14:15	56.	3:35	
20	63.	66.	59.	74.	14:47	54.	4:44	
21	67.	73.	62.	64.	13: 0	58.	4:14	
22	67.	70.	64.	61.	11:16	63.	0: 1	
23	73.	78.	67.	68.	12:49	64.	0: 4	
24	73.	74.	72.	63.	14: 1	66.	8:22	
25	70.	75.	66.	62.	14:49	56.	23:59	
26	57.	61.	53.	67.	16:15	49.	4:52	
27	62.	76.	61.	67.	16: 9	50.	0:20	
28	67.	72.	63.	64.	15:41	58.	4: 3	
29	70.	76.	65.	60.	14:36	61.	5:53	
30	73.	80.	66.	61.	14: 8	62.	4:48	
31	76.	81.	71.	69.	13:31	67.	0: 0	
MEAN	67.	72.	62.					
STANDARD DEVIATION	5.7	6.6	6.1					

SITE: SIR GALAHAD
VIRGINIA BEACH, VIRGINIA

REPORT PERIOD: 79/ 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

INSCLATICN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION ETU/FT2	MAXIMUM TOTAL INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	2051.	N.A.	N.A.	289.	11:53	2948.	70.
2	2123.	N.A.	N.A.	296.	11:59	2938.	72.
3	1948.	N.A.	N.A.	302.	12:52	2927.	67.
4	1380.	N.A.	N.A.	283.	12:21	2917.	47.
5	1560.	N.A.	N.A.	318.	12:32	2907.	54.
6	2129.	N.A.	N.A.	302.	11:27	2900.	73.
7	2009.	N.A.	N.A.	325.	11:42	2890.	70.
8	1688.	N.A.	N.A.	309.	12:17	2880.	59.
9	1871.	N.A.	N.A.	325.	11:47	2873.	65.
10	974.	N.A.	N.A.	315.	13:10	2864.	34.
11	1452.	N.A.	N.A.	322.	11:14	2854.	51.
12	661.	N.A.	N.A.	209.	14:26	2845.	23.
13	1052.	N.A.	N.A.	280.	12:12	2836.	37.
14	188.	N.A.	N.A.	74.	10:23	2827.	7.
15	966.	N.A.	N.A.	248.	11:37	2818.	34.
16	2013.	N.A.	N.A.	283.	11:41	2809.	72.
17	2111.	N.A.	N.A.	293.	12: 4	2803.	75.
18	115.	N.A.	N.A.	29.	13:53	2795.	4.
19	506.	N.A.	N.A.	257.	14: 9	2786.	18.
20	1555.	N.A.	N.A.	296.	11:29	2778.	56.
21	1223.	N.A.	N.A.	309.	12:17	2770.	44.
22	389.	N.A.	N.A.	161.	11: 0	2763.	14.
23	1350.	N.A.	N.A.	289.	12: 6	2755.	49.
24	838.	N.A.	N.A.	261.	12:57	2748.	31.
25	1518.	N.A.	N.A.	296.	11:43	2743.	55.
26	1524.	N.A.	N.A.	338.	10:55	2736.	56.
27	2047.	N.A.	N.A.	286.	12:36	2730.	75.
28	1415.	N.A.	N.A.	293.	10:48	2723.	52.
29	1453.	N.A.	N.A.	296.	12:12	2717.	53.
30	1889.	N.A.	N.A.	267.	11:44	2711.	70.
31	939.	N.A.	N.A.	280.	10:51	2707.	35.
MEAN	1385.	N.A.	N.A.			2816.	
STANDARD DEVIATION	595.	N.A.	N.A.			74.	

ENVIRONMENTAL SUMMARY REFCRT

PAGE 1

SITE: T D MOSELEY
LYNCHBURG, VIRGINIAREPORT PERIOD: 79/ 5
SITE NUMBER: 14LATITUDE: 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	59.	69.	50.	78.	14:54	42.	5:34	N.A.
2	61.	69.	54.	80.	14: 3	39.	4:38	N.A.
3	64.	66.	62.	71.	10:14	56.	5:21	N.A.
4	65.	68.	63.	78.	16:31	57.	4:20	N.A.
5	58.	63.	53.	74.	16:25	46.	5:19	N.A.
6	62.	69.	55.	77.	15:10	44.	3:26	N.A.
7	69.	75.	63.	84.	15:48	53.	5:13	N.A.
8	73.	79.	67.	87.	16:11	56.	5:25	N.A.
9	73.	77.	69.	84.	14:46	65.	23:56	N.A.
10	73.	79.	69.	86.	15:26	65.	4:20	N.A.
11	70.	76.	64.	89.	13:27	63.	4:55	N.A.
12	71.	75.	67.	86.	15:34	59.	4:28	N.A.
13	67.	70.	64.	79.	14:30	62.	19:50	N.A.
14	61.	64.	60.	72.	15:47	53.	23:42	N.A.
15	64.	72.	56.	82.	15:19	52.	2:57	N.A.
16	63.	70.	57.	80.	14:26	50.	5:27	N.A.
17	60.	68.	52.	76.	15: 6	44.	3:29	N.A.
18	61.	69.	53.	79.	16:17	40.	5:11	N.A.
19	60.	63.	58.	66.	16:44	55.	2:52	N.A.
20	65.	71.	60.	80.	17: 6	52.	3:30	N.A.
21	63.	67.	59.	76.	16:49	55.	1:36	N.A.
22	65.	70.	61.	75.	11:37	57.	3: 5	N.A.
23	70.	73.	66.	84.	16:20	60.	0:36	N.A.
24	66.	68.	64.	73.	10:30	59.	23:34	N.A.
25	59.	64.	55.	68.	14:52	46.	23:40	N.A.
26	54.	57.	50.	67.	17: 5	42.	3:40	N.A.
27	60.	66.	56.	73.	13:36	47.	1:42	N.A.
28	64.	68.	60.	80.	16: 5	55.	5:25	N.A.
29	67.	76.	60.	84.	15:43	49.	5: 3	N.A.
30	68.	77.	61.	85.	14:28	48.	5:29	N.A.
31	70.	73.	67.	82.	15: 5	61.	4: 9	N.A.
MEAN	65.	70.	60.					N.A.
STANDARD DEVIATION	4.9	5.2	5.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: T O MOSELEY
LYNCHBURG, VIRGINIA

REPORT PERIOD: 79/ 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 CIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS
	INSOLATION	INSOLATION	INSOLATION	INSOLATION		
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE TIME	INSOLATION	EXT INS
				ETU/HR/FT2 HR:MM	ETU/FT2	PERCENT
1	2007.	N.A.	N.A.	288. 11:47	2809.	71.
2	1928.	N.A.	N.A.	270. 11:50	2797.	69.
3	525.	N.A.	N.A.	195. 9:48	2784.	19.
4	571.	N.A.	N.A.	129. 13:14	2775.	21.
5	1829.	N.A.	N.A.	300. 11:43	2763.	66.
6	1527.	N.A.	N.A.	327. 11:53	2751.	56.
7	1545.	N.A.	N.A.	279. 12:52	2739.	56.
8	1663.	N.A.	N.A.	294. 12:59	2728.	61.
9	849.	N.A.	N.A.	249. 14:36	2719.	31.
10	1149.	N.A.	N.A.	207. 12:30	2708.	42.
11	1335.	N.A.	N.A.	291. 12:28	2699.	49.
12	992.	N.A.	N.A.	300. 12: 7	2688.	37.
13	742.	N.A.	N.A.	255. 13:10	2677.	28.
14	677.	N.A.	N.A.	150. 11:10	2667.	25.
15	1746.	N.A.	N.A.	267. 11:40	2656.	66.
16	1896.	N.A.	N.A.	294. 12:13	2649.	72.
17	1947.	N.A.	N.A.	276. 11:40	2639.	74.
18	1734.	N.A.	N.A.	294. 12:12	2629.	66.
19	915.	N.A.	N.A.	282. 10:41	2619.	35.
20	1413.	N.A.	N.A.	294. 11:30	2610.	54.
21	514.	N.A.	N.A.	102. 16:27	2603.	20.
22	816.	N.A.	N.A.	168. 11:37	2594.	31.
23	750.	N.A.	N.A.	198. 13:19	2586.	29.
24	548.	N.A.	N.A.	207. 9:42	2580.	21.
25	1571.	N.A.	N.A.	312. 11:40	2572.	61.
26	1162.	N.A.	N.A.	273. 13:37	2564.	45.
27	911.	N.A.	N.A.	273. 12:33	2556.	36.
28	1142.	N.A.	N.A.	279. 10:29	2548.	45.
29	1724.	N.A.	N.A.	285. 11:59	2541.	68.
30	1766.	N.A.	N.A.	261. 12:15	2534.	70.
31	689.	N.A.	N.A.	207. 12:31	2530.	27.
MEAN	1245.	N.A.	N.A.		2655.	
STANDARD DEVIATION	502.	N.A.	N.A.		86.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: TRCY OF MIAMI
TROY, CHIC

REPORT PERIOD: 79/ 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	51.	54.	48.	69.	17: 2	34.	5:34	N.A.
2	64.	66.	60.	65.	13:58	43.	5:42	N.A.
3	60.	62.	58.	65.	15:46	54.	23:41	N.A.
4	47.	47.	47.	54.	0: 2	41.	23:57	N.A.
5	51.	54.	45.	67.	16:56	36.	4:55	N.A.
6	61.	64.	58.	75.	17:40	44.	5:30	N.A.
7	71.	74.	68.	67.	15:52	53.	5:44	N.A.
8	77.	80.	73.	61.	15:29	61.	4:28	N.A.
9	76.	80.	73.	61.	14:52	63.	4:55	N.A.
10	78.	80.	76.	64.	15:41	68.	1:22	N.A.
11	75.	83.	75.	62.	13:26	67.	4:54	N.A.
12	58.	59.	57.	68.	0:22	51.	17:45	N.A.
13	58.	59.	56.	70.	16:25	45.	5:56	N.A.
14	64.	67.	61.	75.	13:23	49.	5:18	N.A.
15	62.	66.	58.	75.	13:45	50.	23:59	N.A.
16	59.	63.	55.	77.	13:29	42.	5:13	N.A.
17	64.	67.	60.	63.	13:56	43.	5:48	N.A.
18	70.	74.	66.	69.	16:27	52.	5:57	N.A.
19	70.	75.	65.	60.	13:47	53.	5:31	N.A.
20	70.	73.	68.	67.	14: 8	58.	5:20	N.A.
21	65.	67.	62.	75.	13:15	55.	23:55	N.A.
22	63.	66.	60.	79.	13:34	49.	4:40	N.A.
23	66.	68.	64.	60.	14:45	54.	3:38	N.A.
24	51.	51.	51.	59.	0:10	44.	23:25	N.A.
25	44.	44.	44.	45.	0:50	41.	10:15	N.A.
26	55.	58.	53.	71.	16: 1	44.	3:40	N.A.
27	56.	60.	58.	72.	13:37	51.	0:55	N.A.
28	61.	64.	57.	74.	11:43	49.	3:21	N.A.
29	65.	68.	62.	81.	13:46	47.	5:30	N.A.
30	73.	76.	71.	68.	16:55	57.	5:39	N.A.
31	68.	68.	68.	71.	0: 8	66.	4:41	N.A.
MEAN	63.	66.	61.					N.A.
STANDARD DEVIATION	9.0	9.7	8.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: TROY OF MIAMI
TROY, OHIO

REPORT PERIOD: 79/ 5
SITE NUMBER: 32

LATITUDE: 40.10 DEG NORTH
LONGITUDE: 84.40 DEG WEST

AZIMUTH: 28 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: EASTERN
ALTITUDE: 850 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2145.	2217.	*	318.	13:40	3216.	67.
2	1898.	1982.	*	309.	13: 5	3212.	59.
3	564.	455.	106.	299.	13:49	3208.	18.
4	223.	185.	39.	64.	13:27	3206.	7.
5	2106.	2183.	*	325.	14:31	3204.	66.
6	1945.	1981.	*	309.	12:52	3202.	61.
7	2077.	2137.	*	309.	13:12	3197.	65.
8	1938.	1951.	*	325.	13:53	3192.	61.
9	1351.	1383.	*	328.	13:27	3190.	42.
10	1556.	1397.	156.	305.	14:10	3187.	49.
11	1613.	1600.	14.	292.	13:21	3182.	51.
12	332.	281.	50.	141.	10:46	3180.	10.
13	2120.	2113.	7.	321.	13:24	3177.	67.
14	1665.	1712.	*	334.	13:29	3174.	52.
15	1860.	1876.	*	341.	13:40	3169.	59.
16	2134.	2214.	*	315.	13:24	3166.	67.
17	2120.	2199.	*	315.	14: 4	3163.	67.
18	2026.	2065.	*	296.	13:25	3160.	64.
19	1451.	1562.	*	296.	13:20	3154.	46.
20	1301.	1288.	13.	276.	11:54	3151.	41.
21	1813.	1811.	2.	328.	13:36	3150.	58.
22	1568.	1516.	52.	289.	13:34	3144.	50.
23	936.	801.	135.	231.	14:25	3141.	30.
24	143.	116.	27.	39.	14:10	3140.	5.
25	294.	251.	44.	74.	10:57	3134.	9.
26	1455.	1297.	159.	321.	12:28	3130.	46.
27	1424.	1379.	45.	321.	13:55	3127.	46.
28	1816.	1798.	18.	312.	14:44	3123.	58.
29	2027.	2102.	*	299.	13:14	3120.	65.
30	1992.	2016.	*	289.	13:55	3116.	64.
31	448.	392.	56.	109.	10:22	3113.	14.
MEAN	1495.	1492.	56.			3165.	
STANDARD DEVIATION	650.	692.	53.			31.	

ZONE 7

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ARGONNE NATIONAL LABORATORY
ARGONNE, ILLINOISREPORT PERIOD: 79/ 5
SITE NUMBER: 217LATITUDE: 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	47.	54.	40.	62.	15:17	30.	4:31	N.A.
2	60.	68.	53.	77.	13:36	45.	0: 5	N.A.
3	49.	50.	48.	58.	15:34	41.	23:55	N.A.
4	47.	51.	44.	61.	15:37	39.	23:58	N.A.
5	52.	57.	47.	64.	14:38	37.	4: 9	N.A.
6	62.	68.	57.	75.	13:55	50.	5: 2	N.A.
7	68.	72.	63.	82.	15:16	52.	4:34	N.A.
8	75.	81.	70.	87.	14:46	64.	4:47	N.A.
9	76.	82.	71.	89.	16:17	65.	4:22	N.A.
10	77.	83.	71.	90.	14:44	65.	4:15	N.A.
11	57.	58.	57.	71.	1:30	44.	23:48	N.A.
12	48.	50.	45.	60.	13:40	42.	6:17	N.A.
13	55.	62.	49.	70.	13:49	41.	0:23	N.A.
14	52.	55.	49.	61.	15:23	45.	21:42	N.A.
15	54.	61.	48.	66.	15:39	42.	4:38	N.A.
16	61.	70.	53.	78.	15:50	44.	1: 4	N.A.
17	66.	72.	61.	81.	16: 0	53.	0: 1	N.A.
18	73.	80.	66.	89.	14: 8	60.	3:39	N.A.
19	62.	67.	58.	73.	14:30	47.	23:26	N.A.
20	63.	72.	54.	82.	14:43	45.	4:19	N.A.
21	50.	54.	45.	60.	15:26	41.	4:25	N.A.
22	60.	69.	51.	80.	15:52	38.	2:54	N.A.
23	55.	59.	50.	67.	9:16	43.	23: 8	N.A.
24	50.	54.	46.	60.	14:15	41.	4: 2	N.A.
25	52.	58.	46.	62.	17: 7	41.	4: 3	N.A.
26	55.	63.	48.	69.	11:10	39.	3:20	N.A.
27	57.	63.	50.	69.	15:45	43.	1:28	N.A.
28	57.	64.	50.	69.	15: 2	45.	4:33	N.A.
29	64.	74.	54.	84.	12:29	45.	1:47	N.A.
30	65.	69.	61.	75.	12:32	53.	2: 5	N.A.
31	69.	74.	64.	83.	14: 3	60.	4:22	N.A.
MEAN	59.	65.	54.					N.A.
STANDARD DEVIATION	8.8	9.7	8.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ARGONNE NATIONAL LABORATORY
ARGONNE, ILLINOIS

REPORT PERIOD: 79/ 5
SITE NUMBER: 217

LATITUDE: 41.70 DEG NORTH
LONGITUDE: 88.00 DEG WEST

AZIMUTH: 0 DEG
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	INSOLATION	-----	
				BTU/HR/FT2	BTU/FT2	EXT INS	
				TIME		PERCENT	
				HR:MN			
1	2184.	N.A.	N.A.	347.	11:27	3085.	71.
2	1382.	N.A.	N.A.	269.	10:29	3077.	45.
3	525.	N.A.	N.A.	211.	14:46	3072.	17.
4	1036.	N.A.	N.A.	224.	12:46	3064.	34.
5	2091.	N.A.	N.A.	311.	11:15	3056.	68.
6	1897.	N.A.	N.A.	324.	12:30	3049.	62.
7	1968.	N.A.	N.A.	308.	11:11	3041.	65.
8	2017.	N.A.	N.A.	311.	12:17	3033.	66.
9	1941.	N.A.	N.A.	321.	11:34	3026.	64.
10	1752.	N.A.	N.A.	311.	11:16	3018.	58.
11	736.	N.A.	N.A.	279.	14: 6	3013.	24.
12	667.	N.A.	N.A.	266.	13:34	3006.	22.
13	1901.	N.A.	N.A.	311.	11: 9	2999.	63.
14	504.	N.A.	N.A.	211.	14:40	2992.	17.
15	2182.	N.A.	N.A.	334.	12:11	2985.	73.
16	2220.	N.A.	N.A.	308.	11:23	2978.	75.
17	1788.	N.A.	N.A.	301.	11:17	2971.	60.
18	1875.	N.A.	N.A.	314.	12:16	2964.	63.
19	1395.	N.A.	N.A.	327.	12:38	2957.	47.
20	1714.	N.A.	N.A.	292.	11:47	2951.	58.
21	2168.	N.A.	N.A.	327.	12:35	2945.	74.
22	2147.	N.A.	N.A.	298.	11:41	2938.	73.
23	1734.	N.A.	N.A.	330.	11:14	2932.	59.
24	1874.	N.A.	N.A.	324.	11:30	2926.	64.
25	2252.	N.A.	N.A.	308.	11:26	2921.	77.
26	1508.	N.A.	N.A.	330.	11: 4	2915.	52.
27	1726.	N.A.	N.A.	347.	12:11	2909.	59.
28	2169.	N.A.	N.A.	301.	11:45	2904.	75.
29	1796.	N.A.	N.A.	295.	12:19	2899.	62.
30	1715.	N.A.	N.A.	282.	10:24	2894.	59.
31	1111.	N.A.	N.A.	288.	12:27	2889.	38.
MEAN	1677.	N.A.	N.A.			2981.	
STANDARD DEVIATION	518.	N.A.	N.A.			60.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: BOND CONSTRUCTION
GLADSTONE, MISSOURIREPORT PERIOD: 79/ 5
SITE NUMBER: 132LATITUDE: 39.17 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 94.43 DEG WEST PYRANOMETER TILT: 37 DEG ALTITUDE: 1014 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	60.	64.	55.	74.	15:25	43.	5:33	
2	59.	60.	58.	69.	16:31	50.	23:49	
3	50.	51.	49.	54.	12:18	46.	6:16	
4	54.	57.	50.	66.	17:32	44.	5:53	
5	60.	64.	56.	72.	15: 8	47.	3:24	
6	69.	73.	65.	81.	15:27	56.	5:30	
7	73.	76.	71.	83.	16:38	64.	5:15	
8	76.	78.	74.	83.	17: 6	69.	3:39	
9	77.	79.	74.	84.	17:11	69.	0:44	
10	63.	68.	58.	81.	13:18	44.	23:39	
11	50.	52.	49.	61.	16: 7	43.	4:29	
12	58.	66.	50.	75.	14:15	42.	3: 9	
13	63.	68.	59.	76.	16:16	50.	5:15	
14	65.	70.	60.	75.	12:18	52.	4:29	
15	63.	68.	59.	75.	15:46	51.	4:29	
16	69.	71.	66.	79.	16:29	56.	5: 1	
17	75.	78.	72.	85.	15:25	65.	5:49	
18	68.	70.	66.	78.	9:47	59.	20:59	
19	62.	64.	60.	70.	14:56	58.	1:42	
20	65.	69.	61.	77.	15:28	57.	23:54	
21	59.	62.	56.	68.	15:46	49.	5: 6	
22	66.	72.	60.	83.	14:37	47.	4:34	
23	58.	60.	57.	65.	0: 8	51.	21:25	
24	58.	63.	52.	71.	16:24	45.	4:58	
25	63.	70.	56.	76.	15:50	43.	4:59	
26	65.	70.	60.	79.	15:18	55.	22:41	
27	69.	75.	63.	83.	15:39	57.	1:47	
28	72.	79.	66.	86.	15:33	53.	5: 9	
29	74.	79.	69.	86.	15:22	58.	5:15	
30	73.	80.	67.	89.	15:47	61.	23:42	
31	62.	65.	60.	71.	13:32	53.	23:18	
MEAN	64.	68.	60.					
STANDARD DEVIATION	7.2	7.8	7.1					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: BOND CONSTRUCTION
GLADSTONE, MISSOURI

REPORT PERIOD: 79/ 5
SITE NUMBER: 132

LATITUDE: 39.17 DEG NORTH
LONGITUDE: 94.43 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 37 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 ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	2026.	N.A.	N.A.	334.	12:40	3218.	63.
2	312.	N.A.	N.A.	110.	16:21	3213.	10.
3	857.	N.A.	N.A.	187.	11:52	3205.	27.
4	2340.	N.A.	N.A.	327.	12:17	3200.	73.
5	2344.	N.A.	N.A.	324.	12:17	3195.	73.
6	2338.	N.A.	N.A.	320.	11:38	3190.	73.
7	2060.	N.A.	N.A.	347.	12:17	3184.	65.
8	1665.	N.A.	N.A.	257.	11:56	3179.	52.
9	2011.	N.A.	N.A.	337.	12: 1	3174.	63.
10	740.	N.A.	N.A.	274.	13:56	3169.	23.
11	2018.	N.A.	N.A.	340.	11:46	3164.	64.
12	2295.	N.A.	N.A.	317.	12:18	3159.	73.
13	2281.	N.A.	N.A.	327.	12:16	3154.	72.
14	1737.	N.A.	N.A.	347.	12:18	3149.	55.
15	1848.	N.A.	N.A.	344.	12:18	3145.	59.
16	2054.	N.A.	N.A.	314.	12:45	3140.	65.
17	2017.	N.A.	N.A.	314.	11:57	3135.	64.
18	800.	N.A.	N.A.	200.	9:52	3130.	26.
19	822.	N.A.	N.A.	297.	13:10	3126.	26.
20	1417.	N.A.	N.A.	344.	11:49	3121.	45.
21	1923.	N.A.	N.A.	324.	12: 2	3116.	62.
22	2233.	N.A.	N.A.	304.	12: 8	3112.	72.
23	1099.	N.A.	N.A.	260.	11:28	3108.	35.
24	2117.	N.A.	N.A.	324.	13:17	3104.	68.
25	2072.	N.A.	N.A.	324.	13:15	3099.	67.
26	1917.	N.A.	N.A.	327.	12:22	3095.	62.
27	2151.	N.A.	N.A.	307.	13:47	3091.	70.
28	2184.	N.A.	N.A.	300.	12:16	3088.	71.
29	2222.	N.A.	N.A.	300.	12:26	3084.	72.
30	1807.	N.A.	N.A.	317.	12:41	3080.	59.
31	1455.	N.A.	N.A.	314.	13:16	3077.	47.
MEAN	1779.	N.A.	N.A.			3142.	
STANDARD DEVIATION	562.	N.A.	N.A.			43.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: DUCAT INVESTMENT
KANSAS CITY, KANSASREPORT PERIOD: 79/ 5
SITE NUMBER: 171LATITUDE: 39.17 DEG NORTH
LONGITUDE: 94.43 DEG WESTAZIMUTH: 3 DEG
PYRANOMETER TILT: 53 DEGTIME ZONE: CENTRAL
ALTITUDE: 1014 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.	55.	77.	15:44	43.	4:21	N.A.
2	59.	61.	58.	69.	16: 5	50.	23:54	N.A.
3	50.	51.	49.	53.	12: 2	46.	6:58	N.A.
4	54.	59.	50.	69.	17:11	45.	23:56	N.A.
5	59.	66.	54.	74.	16:12	42.	1:22	N.A.
6	69.	74.	64.	83.	15:44	55.	3:50	N.A.
7	73.	77.	71.	85.	16: 6	64.	4:53	N.A.
8	75.	79.	72.	84.	16: 6	68.	3:29	N.A.
9	77.	81.	73.	86.	16: 3	69.	0:38	N.A.
10	63.	68.	57.	83.	11:16	43.	23:22	N.A.
11	51.	53.	48.	62.	16: 2	42.	5:33	N.A.
12	58.	67.	49.	77.	14:32	38.	4:34	N.A.
13	63.	69.	58.	79.	15: 8	48.	5:22	N.A.
14	64.	70.	58.	77.	17: 5	51.	23:56	N.A.
15	64.	70.	59.	80.	14:31	50.	3: 8	N.A.
16	70.	73.	67.	83.	16: 7	58.	5:22	N.A.
17	75.	79.	71.	88.	14:49	63.	5:45	N.A.
18	67.	69.	64.	77.	9:22	59.	23:57	N.A.
19	62.	64.	60.	72.	13:22	58.	0:29	N.A.
20	65.	68.	63.	77.	13:12	58.	6:11	N.A.
21	61.	64.	59.	75.	15:49	53.	4:56	N.A.
22	68.	76.	61.	88.	15:12	48.	4:43	N.A.
23	58.	59.	56.	65.	0: 0	48.	21:52	N.A.
24	57.	63.	52.	73.	14:45	45.	4:59	N.A.
25	62.	72.	53.	81.	13:50	41.	4:57	N.A.
26	65.	72.	59.	79.	14:44	54.	22:44	N.A.
27	69.	76.	62.	85.	15:24	52.	4:41	N.A.
28	74.	83.	67.	90.	14:15	57.	5: 0	N.A.
29	76.	82.	70.	90.	15:26	59.	4:44	N.A.
30	74.	84.	65.	94.	13:51	59.	23:33	N.A.
31	62.	64.	60.	72.	16:50	52.	23:57	N.A.
MEAN	65.	70.	60.					N.A.
STANDARD DEVIATION	7.3	8.4	7.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: DUCAT INVESTMENT
KANSAS CITY, KANSAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 171

LATITUDE: 39.17 DEG NORTH
LONGITUDE: 94.43 DEG WEST

AZIMUTH: 3 DEG
PYRANOMETER TILT: 53 DEG

TIME ZONE: CENTRAL
ALTITUDE: 1014 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION		INSOLATION	INS
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	BTU/FT2	EXT INS	
				TIME		PERCENT	
				BTU/HR/FT2			
				HR:MN			
1	1980.	N.A.	N.A.	316.	12:43	2766.	72.
2	268.	N.A.	N.A.	103.	16: 5	2753.	10.
3	657.	N.A.	N.A.	154.	10:37	2741.	24.
4	2121.	N.A.	N.A.	302.	11:40	2731.	80.
5	2165.	N.A.	N.A.	308.	11:40	2718.	78.
6	2139.	N.A.	N.A.	308.	11:39	2706.	79.
7	1738.	N.A.	N.A.	332.	13: 5	2694.	65.
8	1578.	N.A.	N.A.	265.	12:22	2684.	59.
9	1806.	N.A.	N.A.	316.	12:19	2672.	68.
10	809.	N.A.	N.A.	265.	11: 0	2663.	30.
11	1819.	N.A.	N.A.	324.	11:20	2652.	69.
12	2056.	N.A.	N.A.	300.	11:30	2640.	78.
13	2053.	N.A.	N.A.	302.	12:23	2629.	78.
14	1423.	N.A.	N.A.	319.	11:40	2620.	54.
15	1445.	N.A.	N.A.	308.	12:28	2610.	55.
16	1871.	N.A.	N.A.	289.	12:18	2599.	72.
17	1895.	N.A.	N.A.	289.	12:20	2589.	73.
18	635.	N.A.	N.A.	151.	9:17	2578.	25.
19	642.	N.A.	N.A.	305.	12:55	2571.	25.
20	1011.	N.A.	N.A.	270.	11: 4	2561.	39.
21	1848.	N.A.	N.A.	305.	11:43	2552.	72.
22	1989.	N.A.	N.A.	281.	11:50	2545.	78.
23	766.	N.A.	N.A.	176.	9:52	2536.	30.
24	1862.	N.A.	N.A.	289.	11:55	2527.	74.
25	1785.	N.A.	N.A.	305.	12:52	2519.	71.
26	1884.	N.A.	N.A.	297.	11:58	2510.	75.
27	2013.	N.A.	N.A.	284.	12: 1	2505.	80.
28	1928.	N.A.	N.A.	289.	12:33	2497.	77.
29	1977.	N.A.	N.A.	281.	12:14	2490.	79.
30	1780.	N.A.	N.A.	319.	12:21	2483.	72.
31	1258.	N.A.	N.A.	305.	11:46	2476.	51.
MEAN	1587.	N.A.	N.A.			2607.	
STANDARD DEVIATION	545.	N.A.	N.A.			89.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: DUMAC INVESTMENT
KANSAS CITY, MISSOURI

REPORT PERIOD: 79/ 5
SITE NUMBER: 58

LATITUDE: 39.00 DEG NORTH AZIMUTH: 10 DEG TIME ZONE: CENTRAL
LONGITUDE: 95.00 DEG WEST PYRANOMETER TILT: 52 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	61.	66.	56.	80.	15:39	43.	4:16	68.
2	61.	63.	60.	75.	15:20	53.	23:57	69.
3	51.	52.	51.	55.	11:35	49.	6:36	67.
4	55.	60.	51.	72.	17: 4	43.	23:55	74.
5	58.	65.	53.	76.	16:32	39.	5:20	71.
6	69.	73.	65.	84.	15:28	54.	6: 3	67.
7	74.	77.	71.	88.	16:25	64.	4:36	69.
8	76.	80.	73.	85.	15:58	68.	2:48	73.
9	76.	80.	72.	89.	15:15	66.	5:23	71.
10	64.	70.	57.	65.	13: 7	46.	23:42	69.
11	52.	54.	50.	65.	14:25	42.	6:14	69.
12	57.	65.	51.	80.	17: 5	37.	5:10	71.
13	63.	68.	59.	82.	15:34	49.	5:21	70.
14	64.	70.	59.	81.	15:40	52.	23:29	69.
15	65.	72.	58.	81.	14:26	49.	2:32	69.
16	71.	75.	67.	88.	17: 7	58.	4:17	76.
17	75.	80.	70.	90.	14:58	61.	4:45	83.
18	67.	70.	64.	79.	10:37	59.	23:25	73.
19	64.	67.	61.	76.	12:56	59.	0: 2	68.
20	67.	70.	64.	83.	15:15	60.	2:16	69.
21	63.	67.	59.	78.	16:41	53.	5: 0	72.
22	68.	75.	62.	85.	15:40	47.	5: 5	71.
23	59.	61.	57.	66.	17:45	46.	23:53	68.
24	58.	65.	51.	79.	15:46	40.	4:30	68.
25	61.	70.	54.	81.	13:56	40.	4:59	71.
26	65.	71.	60.	80.	17:13	54.	5:13	72.
27	70.	77.	64.	89.	14:45	56.	3:37	71.
28	74.	83.	66.	94.	15:12	57.	4:37	71.
29	75.	82.	69.	93.	15:54	57.	5:25	69.
30	74.	82.	67.	94.	14:29	59.	4:48	69.
31	64.	67.	62.	78.	15:38	51.	23:33	69.
MEAN	65.	70.	61.					71.
STANDARD DEVIATION	7.0	7.9	6.8					3.1

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: DUMAC INVESTMENT
KANSAS CITY, MISSOURI

REPORT PERIOD: 79/ 5
SITE NUMBER: 58

LATITUDE: 39.00 DEG NORTH
LONGITUDE: 95.00 DEG WEST

AZIMUTH: 10 DEG
PYRANOMETER TILT: 52 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:MM	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1793.	N.A.	N.A.	309.	12:32	2811.	64.
2	448.	N.A.	N.A.	273.	14:59	2799.	16.
3	401.	N.A.	N.A.	52.	11:30	2787.	14.
4	2024.	N.A.	N.A.	288.	12:48	2777.	73.
5	2002.	N.A.	N.A.	294.	13: 4	2765.	72.
6	2022.	N.A.	N.A.	285.	12:48	2756.	73.
7	1711.	N.A.	N.A.	300.	12:47	2742.	62.
8	1694.	N.A.	N.A.	282.	12: 6	2733.	62.
9	1587.	N.A.	N.A.	306.	13: 7	2722.	58.
10	711.	N.A.	N.A.	242.	13: 2	2710.	26.
11	1652.	N.A.	N.A.	306.	13: 0	2702.	61.
12	1918.	N.A.	N.A.	279.	13:26	2691.	71.
13	1925.	N.A.	N.A.	282.	13: 5	2680.	72.
14	1238.	N.A.	N.A.	285.	11:18	2670.	46.
15	1548.	N.A.	N.A.	291.	12:40	2662.	58.
16	1753.	N.A.	N.A.	273.	13:23	2652.	66.
17	1774.	N.A.	N.A.	282.	12:50	2642.	67.
18	526.	N.A.	N.A.	132.	9:22	2635.	20.
19	598.	N.A.	N.A.	276.	12:56	2625.	23.
20	1194.	N.A.	N.A.	288.	13:28	2613.	46.
21	1925.	N.A.	N.A.	279.	12:41	2606.	74.
22	1856.	N.A.	N.A.	267.	12:44	2598.	71.
23	884.	N.A.	N.A.	205.	10:28	2589.	34.
24	1755.	N.A.	N.A.	276.	13:17	2583.	68.
25	1662.	N.A.	N.A.	288.	13:56	2575.	65.
26	1749.	N.A.	N.A.	291.	13:18	2567.	68.
27	1760.	N.A.	N.A.	288.	13:31	2559.	69.
28	1694.	N.A.	N.A.	282.	13:52	2552.	66.
29	1857.	N.A.	N.A.	264.	13: 4	2544.	73.
30	1504.	N.A.	N.A.	282.	12:16	2537.	59.
31	1294.	N.A.	N.A.	294.	12:37	2533.	61.
MEAN	1499.	N.A.	N.A.			2659.	
STANDARD DEVIATION	499.	N.A.	N.A.			85.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: JOHN BYRUM, JR.
SHAWNEE MISSICN, KANSAS

REPORT PERIOD: 79/ 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	61.	67.	55.	77.	15:54	44.	4: 0	73.
2	61.	63.	59.	71.	16:18	52.	23:46	74.
3	51.	53.	50.	56.	12: 6	48.	6:35	73.
4	56.	64.	49.	74.	15:36	42.	23:57	74.
5	59.	67.	52.	75.	14:15	40.	1:17	72.
6	69.	75.	64.	83.	14:59	55.	3:58	70.
7	74.	78.	70.	85.	15:39	64.	5:41	71.
8	76.	80.	72.	84.	15: 5	69.	3: 7	74.
9	76.	81.	72.	87.	15: 6	68.	6:12	66.
10	64.	69.	59.	84.	11: 3	46.	23:40	71.
11	53.	59.	49.	68.	14:48	41.	5:54	70.
12	59.	69.	49.	78.	14:33	38.	5:28	74.
13	64.	74.	56.	83.	15: 0	47.	5:35	70.
14	65.	74.	57.	82.	15: 6	50.	23:51	76.
15	63.	70.	56.	78.	15: 7	47.	2:35	74.
16	71.	75.	67.	85.	15: 2	58.	5:10	75.
17	76.	82.	70.	89.	14:45	64.	4:48	70.
18	67.	70.	65.	77.	10:37	60.	23:51	68.
19	63.	65.	60.	70.	15:50	57.	2: 5	68.
20	66.	71.	62.	82.	15: 1	57.	23:49	72.
21	61.	66.	56.	75.	15:15	50.	23:55	72.
22	65.	75.	57.	66.	15:11	45.	5:28	70.
23	57.	62.	53.	67.	11: 2	44.	23:50	72.
24	57.	67.	48.	78.	14:25	39.	5:26	72.
25	61.	73.	51.	82.	15: 0	40.	5:13	67.
26	66.	75.	58.	81.	15: 6	53.	23:59	68.
27	68.	79.	58.	85.	15:25	58.	5:46	64.
28	74.	83.	65.	91.	15: 3	56.	0: 7	63.
29	74.	82.	67.	89.	15: 6	56.	4:26	65.
30	74.	83.	66.	90.	15:46	59.	5: 8	68.
31	63.	67.	59.	77.	14:43	51.	23:57	64.
MEAN	65.	72.	59.					70.
STANDARD DEVIATION	6.9	7.5	7.3					3.4

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: JOHN BYRUM, JR.
SHAWNEE MISSION, KANSAS

REPORT PERIOD: 79/ 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

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:MM	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	1779.	N.A.	N.A.	281.	12: 5	2724.	65.
2	272.	N.A.	N.A.	123.	15:36	2710.	10.
3	585.	N.A.	N.A.	112.	8:48	2697.	22.
4	1917.	N.A.	N.A.	284.	11:52	2686.	71.
5	1903.	N.A.	N.A.	288.	11:25	2673.	71.
6	1946.	N.A.	N.A.	284.	11:10	2661.	73.
7	1553.	N.A.	N.A.	295.	10:51	2648.	59.
8	1409.	N.A.	N.A.	228.	11: 4	2638.	53.
9	1497.	N.A.	N.A.	281.	11:32	2626.	57.
10	659.	N.A.	N.A.	249.	10:58	2616.	27.
11	1741.	N.A.	N.A.	255.	10:58	2604.	67.
12	1884.	N.A.	N.A.	274.	11:46	2592.	73.
13	1879.	N.A.	N.A.	270.	11:37	2581.	73.
14	1423.	N.A.	N.A.	255.	12:39	2572.	55.
15	1330.	N.A.	N.A.	249.	13:47	2560.	52.
16	1735.	N.A.	N.A.	270.	11:34	2549.	68.
17	1757.	N.A.	N.A.	263.	11:49	2539.	69.
18	580.	N.A.	N.A.	126.	8:45	2531.	23.
19	519.	N.A.	N.A.	147.	13:20	2520.	21.
20	989.	N.A.	N.A.	256.	12:27	2513.	39.
21	1705.	N.A.	N.A.	274.	10:51	2503.	68.
22	1713.	N.A.	N.A.	260.	11:13	2493.	69.
23	857.	N.A.	N.A.	242.	10: 3	2484.	35.
24	1796.	N.A.	N.A.	267.	11:50	2475.	73.
25	1683.	N.A.	N.A.	288.	12:19	2469.	68.
26	1461.	N.A.	N.A.	263.	11:59	2460.	61.
27	1705.	N.A.	N.A.	260.	11:38	2452.	70.
28	1807.	N.A.	N.A.	260.	11:41	2444.	74.
29	1774.	N.A.	N.A.	253.	11:33	2436.	73.
30	1554.	N.A.	N.A.	277.	11:59	2429.	64.
31	1039.	N.A.	N.A.	281.	12: 3	2424.	43.
MEAN	1436.	N.A.	N.A.			2558.	
STANDARD DEVIATION	487.	N.A.	N.A.			92.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: KAW VALLEY BANK
TOPEKA, KANSAS

REPORT PERIOD: 79/ 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	61.	68.	54.	81.	14:19	43.	2:20	N.A.
2	57.	60.	55.	68.	13:11	49.	21:43	N.A.
3	49.	49.	48.	52.	17:36	43.	7:12	N.A.
4	54.	58.	50.	70.	17:34	44.	5:50	N.A.
5	61.	68.	54.	78.	15:47	42.	4:46	N.A.
6	70.	75.	65.	86.	15:45	56.	5: 0	N.A.
7	75.	79.	70.	88.	14:43	62.	5:25	N.A.
8	78.	80.	74.	89.	13:59	69.	5:27	N.A.
9	77.	82.	74.	88.	13:18	68.	4:51	N.A.
10	57.	55.	58.	74.	0:19	45.	23:43	N.A.
11	51.	54.	47.	63.	15: 0	36.	5:29	N.A.
12	59.	67.	50.	81.	14:12	38.	4: 9	N.A.
13	64.	70.	58.	84.	15:43	45.	4:57	N.A.
14	64.	71.	58.	78.	15:16	51.	3:59	N.A.
15	65.	71.	59.	81.	14:23	50.	2:23	N.A.
16	73.	78.	67.	89.	15:30	58.	4:50	N.A.
17	77.	82.	71.	90.	13:46	64.	4:42	N.A.
18	65.	65.	66.	71.	0: 0	59.	23:33	N.A.
19	61.	63.	59.	75.	14:56	56.	6:34	N.A.
20	65.	70.	62.	76.	13:59	57.	23:56	N.A.
21	61.	64.	57.	73.	13:31	53.	5:21	N.A.
22	68.	76.	61.	87.	13:30	47.	5: 3	N.A.
23	59.	60.	58.	68.	17:39	48.	23:57	N.A.
24	57.	64.	52.	77.	14:30	42.	4:40	N.A.
25	63.	71.	55.	84.	15:21	43.	5: 8	N.A.
26	68.	74.	62.	83.	15:32	53.	4:36	N.A.
27	69.	78.	62.	87.	16:43	51.	5: 2	N.A.
28	74.	82.	65.	95.	13:31	54.	4:33	N.A.
29	77.	85.	69.	94.	15: 9	61.	4:11	N.A.
30	71.	79.	64.	94.	12:10	60.	23:33	N.A.
31	63.	65.	61.	75.	15:44	54.	8:21	N.A.
MEAN	65.	70.	60.					N.A.
STANDARD DEVIATION	7.9	9.3	7.2					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: KAW VALLEY BANK
TOPEKA, KANSAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 172

LATITUDE: 39.40 DEG NORTH
LONGITUDE: 95.38 DEG WEST

AZIMUTH: 5 DEG
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 BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1		N.A.	N.A.		5:26	3029.	
2		N.A.	N.A.		5:27	3020.	
3		N.A.	N.A.		5:26	3011.	
4		N.A.	N.A.		5:23	3000.	
5		N.A.	N.A.		5:23	2991.	
6		N.A.	N.A.		5:26	2985.	
7		N.A.	N.A.		5:25	2976.	
8		N.A.	N.A.		17:11	2968.	
9		N.A.	N.A.		5:23	2959.	
10		N.A.	N.A.		6:23	2951.	
11		N.A.	N.A.		5:24	2945.	
12		N.A.	N.A.		5:24	2937.	
13		N.A.	N.A.		5:24	2929.	
14		N.A.	N.A.		7: 0	2921.	
15		N.A.	N.A.		5:24	2913.	
16		N.A.	N.A.		5:27	2905.	
17		N.A.	N.A.		5:25	2897.	
18		N.A.	N.A.		17:20	2890.	
19		N.A.	N.A.		11:28	2882.	
20		N.A.	N.A.		5:43	2875.	
21		N.A.	N.A.		5:31	2868.	
22		N.A.	N.A.		5:25	2861.	
23		N.A.	N.A.		5:28	2857.	
24		N.A.	N.A.		5:28	2851.	
25		N.A.	N.A.		5:29	2844.	
26		N.A.	N.A.		5:29	2838.	
27		N.A.	N.A.		5:29	2832.	
28		N.A.	N.A.		16:54	2826.	
29	687.	N.A.	N.A.		15:20	2820.	
30	554.	N.A.	N.A.	52.	14:18	2815.	
31	264.	N.A.	N.A.	32.	5:25	2812.	
MEAN	222.	N.A.	N.A.			2910.	
STANDARD DEVIATION	271.	N.A.	N.A.			67.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: CSCAR P. WREN
POPLAR BLUFF, MISSOURI

REPORT PERIOD: 7/ 5
SITE NUMBER: 80

LATITUDE: 36.75 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 90.40 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 330 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.	54.	77.	15: 7	46.	1:41	
2	62.	66.	58.	72.	8:40	49.	4:51	
3	62.	66.	59.	73.	13: 3	54.	22:17	
4	49.	49.	49.	54.	0: 4	42.	23:58	
5	55.	63.	47.	71.	14:59	38.	5:13	
6	58.	61.	55.	71.	14:33	46.	4:57	
7	71.	79.	65.	85.	14:44	56.	2:49	
8	77.	84.	72.	89.	14:22	67.	2:48	
9	75.	80.	70.	87.	11:36	64.	4:40	
10	77.	84.	72.	91.	10:59	66.	5:55	
11	63.	64.	61.	72.	1:57	51.	23:54	
12	54.	58.	50.	66.	12:26	44.	23:38	
13	56.	64.	49.	75.	13:20	40.	4:58	
14	67.	76.	56.	86.	14:10	48.	3: 3	
15	66.	75.	58.	82.	12:48	52.	23:44	
16	64.	73.	56.	80.	14: 6	50.	1:55	
17	66.	77.	57.	83.	12:50	48.	5: 6	
18	71.	82.	61.	91.	13:34	49.	4:52	
19	72.	79.	66.	92.	11:32	62.	4:52	
20	66.	68.	65.	78.	13:32	62.	22:47	
21	61.	62.	60.	64.	13:46	57.	23:44	
22	58.	58.	57.	64.	15:54	53.	4:10	
23	67.	73.	62.	86.	14:34	57.	23:54	
24	60.	66.	55.	73.	14:44	49.	23:53	
25	55.	69.	50.	76.	14: 5	43.	5: 7	
26	64.	74.	55.	81.	12:51	42.	4: 3	
27	68.	76.	62.	84.	10:48	56.	4:35	
28	72.	79.	66.	87.	13:49	62.	23:31	
29	72.	79.	67.	86.	14:54	59.	4:14	
30	72.	76.	69.	85.	11:56	64.	3:52	
31	74.	79.	69.	91.	15: 3	65.	2:41	
MEAN	65.	71.	60.					
STANDARD DEVIATION	7.2	8.6	7.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: CSCAR P. WREN
POPLAR BLUFF, MISSOURI

REPORT PERIOD: 79/ 5
SITE NUMBER: 80

LATITUDE: 36.75 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 90.40 DEG WEST PYRANOMETER TILT: 55 DEG ALTITUDE: 330 FEET

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1866.	N.A.	N.A.	269.	11:44	2601.	72.
2	450.	N.A.	N.A.	139.	8:40	2589.	17.
3	368.	N.A.	N.A.	157.	9:19	2575.	14.
4	163.	N.A.	N.A.	38.	12:30	2560.	6.
5	1946.	N.A.	N.A.	278.	11:42	2548.	76.
6	779.	N.A.	N.A.	251.	14:33	2537.	31.
7	1837.	N.A.	N.A.	263.	12: 4	2523.	73.
8	1693.	N.A.	N.A.	281.	12:14	2509.	67.
9	1135.	N.A.	N.A.	299.	11:36	2498.	45.
10	1449.	N.A.	N.A.	240.	11:36	2485.	58.
11	328.	N.A.	N.A.	127.	13:41	2472.	13.
12	1003.	N.A.	N.A.	296.	12:16	2461.	41.
13	1498.	N.A.	N.A.	257.	11:38	2449.	61.
14	1791.	N.A.	N.A.	251.	11:36	2439.	73.
15	1357.	N.A.	N.A.	266.	12:43	2427.	56.
16	1490.	N.A.	N.A.	296.	11:31	2415.	62.
17	1691.	N.A.	N.A.	246.	11:46	2405.	70.
18	1681.	N.A.	N.A.	246.	11:37	2394.	70.
19	980.	N.A.	N.A.	234.	11: 5	2383.	41.
20	564.	N.A.	N.A.	287.	11:29	2372.	24.
21	461.	N.A.	N.A.	80.	13:46	2364.	20.
22	333.	N.A.	N.A.	65.	14:23	2353.	14.
23	1342.	N.A.	N.A.	269.	11:54	2346.	57.
24	1647.	N.A.	N.A.	254.	11:48	2336.	70.
25	1732.	N.A.	N.A.	254.	11:47	2326.	74.
26	1598.	N.A.	N.A.	263.	13:39	2317.	69.
27	1318.	N.A.	N.A.	263.	12:51	2310.	57.
28	1445.	N.A.	N.A.	263.	11:31	2302.	63.
29	1472.	N.A.	N.A.	251.	11:31	2293.	64.
30	898.	N.A.	N.A.	317.	11:53	2285.	39.
31	909.	N.A.	N.A.	257.	12:55	2278.	40.
MEAN	1201.	N.A.	N.A.			2424.	
STANDARD DEVIATION	541.	N.A.	N.A.			99.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SCATTERGOOD
WEST BRANCH, ICWA

REPORT PERIOD: 79/ 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	47.	50.	44.	58.	17:29	34.	5:13	
2	53.	54.	53.	56.	11:19	49.	23:46	
3	50.	53.	47.	59.	14:54	43.	23:59	
4	50.	56.	45.	64.	15:12	39.	4:16	
5	56.	61.	50.	68.	16:48	42.	3:22	
6	63.	68.	58.	77.	14:56	49.	4: 0	
7	68.	73.	64.	82.	16:25	56.	4:57	
8	76.	81.	72.	89.	16: 7	64.	0:25	
9	76.	81.	71.	86.	15:38	66.	4:47	
10	74.	80.	68.	86.	13:48	54.	23:54	
11	46.	46.	46.	53.	0: 4	43.	23:59	
12	52.	57.	48.	65.	15: 7	39.	4: 4	
13	58.	63.	54.	70.	14: 3	47.	4:53	
14	57.	59.	54.	70.	11:52	50.	4:56	
15	58.	64.	53.	71.	15:34	44.	4:49	
16	61.	67.	56.	73.	13:53	47.	5:16	
17	72.	76.	68.	83.	16:36	60.	4:25	
18	69.	76.	63.	84.	14: 7	59.	20: 9	
19	63.	66.	60.	75.	16: 2	53.	5:35	
20	61.	68.	54.	72.	12:50	44.	23:41	
21	56.	62.	50.	70.	14: 3	39.	4:21	
22	61.	66.	57.	76.	16:21	44.	4:42	
23	56.	59.	52.	66.	13: 1	41.	23:57	
24	56.	63.	49.	69.	14:29	39.	4: 2	
25	58.	66.	51.	72.	16:21	41.	4:53	
26	55.	57.	52.	63.	14:55	49.	23:43	
27	62.	70.	58.	77.	14:57	44.	4: 5	
28	69.	77.	62.	85.	13:37	51.	4:33	
29	70.	75.	66.	86.	15:10	55.	1:50	
30	76.	81.	70.	88.	16:12	61.	5:21	
31	63.	65.	61.	70.	13: 4	51.	23:50	
MEAN	61.	66.	56.					
STANDARD DEVIATION	8.6	9.6	8.1					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: SCATTERGOOD
WEST BRANCH, ICMA

REPORT PERIOD: 79/ 5
SITE NUMBER: 9

LATITUDE: 41.70 DEG NORTH
LONGITUDE: 91.30 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 50 DEG

TIME ZONE: CENTRAL
ALTITUDE: 860 FEET

INSCLATIGN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM INSCLATION VALUE BTU/HR/FT2	TOTAL TIME FR:MM	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	1018.	N.A.	N.A.	227.	15: 5	2945.	35.
2	153.	N.A.	N.A.	35.	12:39	2934.	5.
3	1992.	N.A.	N.A.	315.	11:21	2924.	68.
4	2097.	N.A.	N.A.	302.	12: 0	2914.	72.
5	1822.	N.A.	N.A.	305.	12: 5	2906.	63.
6	1846.	N.A.	N.A.	308.	12:32	2896.	64.
7	1707.	N.A.	N.A.	298.	13: 2	2886.	59.
8	1529.	N.A.	N.A.	276.	13:17	2879.	53.
9	1719.	N.A.	N.A.	305.	11:38	2870.	60.
10	1523.	N.A.	N.A.	289.	12:12	2860.	53.
11	577.	N.A.	N.A.	123.	12:31	2850.	20.
12	2083.	N.A.	N.A.	295.	12:27	2841.	73.
13	1939.	N.A.	N.A.	318.	12: 5	2832.	68.
14	1123.	N.A.	N.A.	318.	12:24	2823.	40.
15	1999.	N.A.	N.A.	292.	11:55	2814.	71.
16	1765.	N.A.	N.A.	308.	13: 0	2808.	63.
17	1676.	N.A.	N.A.	292.	12:20	2799.	60.
18	1176.	N.A.	N.A.	286.	13:26	2791.	42.
19	1954.	N.A.	N.A.	289.	11:57	2782.	70.
20	1862.	N.A.	N.A.	289.	11:57	2774.	68.
21	2029.	N.A.	N.A.	305.	12:48	2766.	73.
22	1524.	N.A.	N.A.	324.	11:33	2758.	55.
23	1057.	N.A.	N.A.	318.	12:50	2751.	38.
24	1741.	N.A.	N.A.	321.	12:21	2746.	63.
25	2059.	N.A.	N.A.	292.	12:21	2739.	75.
26	562.	N.A.	N.A.	208.	15:11	2732.	21.
27	1990.	N.A.	N.A.	289.	12:31	2725.	73.
28	1992.	N.A.	N.A.	292.	11:50	2719.	73.
29	1204.	N.A.	N.A.	263.	14: 1	2715.	44.
30	1702.	N.A.	N.A.	258.	12:45	2709.	63.
31	629.	N.A.	N.A.	104.	12:59	2703.	23.
MEAN	1551.	N.A.	N.A.			2813.	
STANDARD DEVIATION	527.	N.A.	N.A.			74.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: SPENCE CREEK
WEST DES MOINES, IOWA

REPORT PERIOD: 7/ 5
SITE NUMBER: 82

LATITUDE: 41.32 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 93.39 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 938 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME FR:MN	VALUE	TIME FR:MN	
1	53.	57.	50.	71.	15:27	37.	2:17	60.
2	54.	55.	53.	59.	0:4	48.	21:7	61.
3	47.	49.	45.	57.	14:54	37.	5:18	61.
4	53.	55.	47.	70.	16:25	35.	4:57	59.
5	61.	67.	55.	74.	16:3	45.	1:55	61.
6	68.	74.	62.	64.	16:0	52.	3:55	60.
7	70.	73.	67.	60.	16:24	61.	5:12	63.
8	71.	79.	64.	67.	16:8	56.	23:57	64.
9	73.	80.	65.	67.	15:43	55.	4:9	62.
10	56.	64.	48.	66.	12:34	42.	23:46	61.
11	45.	47.	43.	57.	16:35	39.	23:20	61.
12	54.	62.	46.	74.	14:11	32.	5:7	62.
13	60.	66.	54.	74.	13:38	45.	5:6	62.
14	59.	65.	52.	71.	16:52	48.	22:34	62.
15	61.	69.	53.	64.	15:16	40.	4:47	64.
16	64.	69.	59.	76.	15:56	52.	1:30	66.
17	76.	82.	70.	50.	14:58	62.	4:50	64.
18	66.	69.	63.	77.	15:2	53.	22:51	64.
19	63.	69.	57.	78.	16:55	49.	4:54	65.
20	61.	66.	56.	69.	13:43	50.	23:57	65.
21	57.	62.	53.	74.	14:49	39.	4:30	64.
22	65.	71.	58.	61.	14:27	47.	4:30	63.
23	57.	58.	55.	68.	15:59	46.	23:59	62.
24	57.	64.	51.	73.	15:19	39.	3:54	63.
25	61.	70.	53.	61.	15:50	40.	5:5	66.
26	62.	66.	58.	78.	12:54	53.	23:56	65.
27	65.	72.	57.	64.	15:29	48.	4:49	65.
28	72.	82.	62.	62.	15:18	48.	4:54	68.
29	77.	85.	69.	55.	14:41	61.	4:44	66.
30	73.	82.	64.	62.	13:48	58.	23:56	67.
31	59.	61.	57.	70.	16:32	48.	23:49	65.
MEAN	62.	68.	56.					63.
STANDARD DEVIATION	7.9	9.3	7.1					2.3

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: SPENCE UREAN
WEST DES MOINES, IOWA

REPORT PERIOD: 79/ 5
SITE NUMBER: 82

LATITUDE: 41.32 DEG NCRTH
LONGITUDE: 93.39 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: CENTRAL
ALTITUDE: 938 FEET

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSCLATION ETU/FT2	TTL INS EXT INS PERCENT
1	1232.	N.A.	N.A.	295.	13:24	3077.	40.
2	128.	N.A.	N.A.	53.	12:35	3068.	4.
3	2190.	N.A.	N.A.	333.	12:46	3060.	72.
4	2235.	N.A.	N.A.	316.	12:30	3052.	73.
5	1896.	N.A.	N.A.	357.	12:14	3047.	62.
6	1768.	N.A.	N.A.	310.	11:33	3039.	58.
7	905.	N.A.	N.A.	297.	12: 3	3031.	30.
8	1195.	N.A.	N.A.	263.	12:40	3024.	40.
9	1455.	N.A.	N.A.	316.	12:41	3016.	50.
10	657.	N.A.	N.A.	298.	12:13	3008.	22.
11	1017.	N.A.	N.A.	286.	13:55	3000.	34.
12	2183.	N.A.	N.A.	322.	12:24	2993.	73.
13	1954.	N.A.	N.A.	339.	12: 7	2986.	65.
14	1778.	N.A.	N.A.	348.	11:55	2978.	60.
15	2185.	N.A.	N.A.	316.	12:20	2971.	74.
16	1505.	N.A.	N.A.	322.	12:44	2964.	51.
17	2039.	N.A.	N.A.	298.	11:41	2957.	69.
18	677.	N.A.	N.A.	227.	9:58	2950.	23.
19	2130.	N.A.	N.A.	304.	11:50	2943.	72.
20	2064.	N.A.	N.A.	319.	12:34	2937.	70.
21	2192.	N.A.	N.A.	324.	11:52	2933.	75.
22	1488.	N.A.	N.A.	324.	11:42	2927.	51.
23	1577.	N.A.	N.A.	342.	11:48	2920.	54.
24	1731.	N.A.	N.A.	364.	12:23	2914.	59.
25	2153.	N.A.	N.A.	307.	12:17	2908.	74.
26	1126.	N.A.	N.A.	316.	10:36	2903.	39.
27	2044.	N.A.	N.A.	316.	12: 1	2897.	71.
28	2060.	N.A.	N.A.	330.	11:50	2892.	71.
29	2073.	N.A.	N.A.	292.	12: 1	2887.	72.
30	1730.	N.A.	N.A.	322.	12:17	2881.	60.
31	1134.	N.A.	N.A.	257.	14:34	2877.	35.
MEAN	1631.	N.A.	N.A.			2969.	
STANDARD DEVIATION	554.	N.A.	N.A.			61.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: SPENCE UREAN
WEST DES MOINES, IOWA

REPORT PERIOD: 79/ 5
SITE NUMBER: 82

LATITUDE: 41.32 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 93.39 DEG WEST PYRANOMETER TILT: 45 DEG ALTITUDE: 938 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.	*	21:56
2	*	1.	*	1.	4.	*	19:10
3	*	1.	*	2.	4.	*	1: 2
4	*	0.	*	0.	1.	*	2: 1
5	*	1.	*	1.	3.	*	10:33
6	*	0.	*	0.	1.	*	6:56
7	*	0.	*	0.	1.	*	3: 7
8	*	0.	*	0.	1.	*	5:39
9	*	0.	*	0.	1.	*	9:51
10	*	0.	*	0.	2.	*	20:18
11	*	0.	*	0.	2.	*	1: 6
12	*	0.	*	0.	3.	*	23:41
13	*	0.	*	0.	2.	*	21:59
14	*	0.	*	0.	1.	*	18:12
15	*	0.	*	0.	0.	*	21:24
16	*	0.	*	0.	2.	*	21:26
17	*	0.	*	0.	1.	*	1:26
18	*	0.	*	0.	9.	*	15:50
19	*	0.	*	0.	1.	*	0:17
20	*	0.	*	0.	1.	*	23:41
21	*	0.	*	0.	1.	*	0: 2
22	*	0.	*	0.	2.	*	16:14
23	*	0.	*	0.	1.	*	3:48
24	*	0.	*	0.	0.	*	9:51
25	*	*	*	*	*	*	*:*
26	*	0.	*	0.	4.	*	14: 4
27	*	0.	*	0.	0.	*	23:55
28	*	0.	*	0.	0.	*	22:41
29	*	0.	*	0.	0.	*	3:23
30	*	1.	*	1.	4.	*	15:13
31	*	1.	*	1.	3.	*	0:28
MEAN	0.	0.	0.	0.			
STANDARD DEVIATION	*****	0.4	*****	0.4			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: SPENCE UREAN
WEST DES MOINES, ICWA

REPORT PERIOD: 79/ 5
SITE NUMBER: 82

LATITUDE: 41.32 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 93.39 DEG WEST PYRANOMETER TILT: 45 DEG
TIME ZONE: CENTRAL
ALTITUDE: 938 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	24	0	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	24	0	0	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	24	0	0	0	0	0	0	0	0
10	24	0	0	0	0	0	0	0	0
11	24	0	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	24	0	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	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	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	24	0	0	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	743	0	0	0	0	0	0	0	1

ZONE 8

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ALBUQUERQUE WESTERN
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 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	62.	68.	57.	74.	14:38	45.	5:28	71.
2	60.	63.	57.	73.	14:39	50.	5:35	71.
3	51.	52.	45.	61.	10:21	43.	13:17	71.
4	58.	63.	52.	72.	14:58	42.	5:38	71.
5	65.	72.	60.	82.	14:12	49.	4:55	71.
6	70.	77.	64.	86.	14: 7	51.	5:45	72.
7	69.	76.	63.	84.	14:33	53.	5:18	72.
8	61.	69.	53.	80.	15: 0	42.	23:48	71.
9	45.	47.	44.	53.	15:36	40.	23:30	71.
10	47.	51.	43.	56.	13:43	38.	4:29	71.
11	56.	57.	54.	67.	15: 8	38.	5:38	70.
12	57.	62.	53.	70.	17: 3	43.	5:16	70.
13	62.	69.	55.	80.	15:33	40.	5:14	70.
14	67.	75.	60.	85.	15:46	47.	4:53	71.
15	67.	73.	60.	83.	11:56	53.	4:17	72.
16	66.	72.	60.	82.	12:20	56.	23:42	72.
17	65.	70.	61.	78.	14:40	54.	4:27	72.
18	68.	75.	61.	86.	15:15	52.	3:31	72.
19	71.	78.	65.	87.	14:58	58.	4: 8	73.
20	55.	55.	55.	66.	8:52	47.	22:26	72.
21	57.	62.	52.	74.	17: 6	44.	5: 0	72.
22	66.	72.	60.	83.	15:51	49.	5: 6	72.
23	70.	77.	63.	87.	14:58	54.	4:44	72.
24	66.	71.	60.	83.	14:44	56.	5: 0	73.
25	63.	69.	57.	76.	13:19	54.	4:58	73.
26	59.	63.	56.	70.	17:30	53.	23:54	74.
27	64.	68.	56.	75.	16: 7	51.	1:57	74.
28	67.	72.	62.	80.	15: 8	57.	1: 6	74.
29	71.	76.	65.	83.	15:51	56.	4:55	74.
30	72.	78.	67.	83.	17: 5	59.	2:41	74.
31	65.	75.	63.	84.	13:45	58.	5: 1	74.
MEAN	63.	68.	58.					72.
STANDARD DEVIATION	7.0	8.5	5.8					1.1

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ALBUQUERQUE WESTERN
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 5
SITE NUMBER: 55

LATITUDE: 35.00 DEG NORTH
LONGITUDE: 106.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 35 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5389 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION ETU/FT2	MAXIMUM INSOLATION VALUE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1402.	N.A.	N.A.	264.	11:20	3168.	44.
2	1809.	N.A.	N.A.	302.	12:15	3162.	57.
3	1048.	N.A.	N.A.	318.	10:10	3156.	33.
4	1906.	N.A.	N.A.	337.	12: 7	3150.	61.
5	1791.	N.A.	N.A.	283.	12: 7	3143.	57.
6	2144.	N.A.	N.A.	265.	11:59	3137.	68.
7	1650.	N.A.	N.A.	331.	11:48	3131.	62.
8	1912.	N.A.	N.A.	310.	12: 4	3125.	61.
9	821.	N.A.	N.A.	315.	12:13	3119.	26.
10	1384.	N.A.	N.A.	331.	11:57	3113.	44.
11	2051.	N.A.	N.A.	288.	11:51	3107.	66.
12	2102.	N.A.	N.A.	283.	11:56	3101.	68.
13	2089.	N.A.	N.A.	280.	11:54	3095.	67.
14	2075.	N.A.	N.A.	280.	12:10	3089.	67.
15	1281.	N.A.	N.A.	258.	10:20	3084.	42.
16	1590.	N.A.	N.A.	283.	11:53	3078.	52.
17	1760.	N.A.	N.A.	299.	12:54	3072.	57.
18	1704.	N.A.	N.A.	274.	12:56	3067.	56.
19	2049.	N.A.	N.A.	277.	12:12	3061.	67.
20	281.	N.A.	N.A.	114.	10:31	3056.	9.
21	1923.	N.A.	N.A.	288.	12:23	3051.	63.
22	1953.	N.A.	N.A.	272.	11:56	3045.	64.
23	1916.	N.A.	N.A.	272.	11:51	3040.	63.
24	1453.	N.A.	N.A.	280.	11:48	3036.	48.
25	1569.	N.A.	N.A.	318.	12:26	3031.	52.
26	971.	N.A.	N.A.	279.	14:13	3026.	32.
27	1375.	N.A.	N.A.	261.	12:21	3021.	46.
28	1685.	N.A.	N.A.	291.	13: 6	3017.	56.
29	1745.	N.A.	N.A.	288.	11:41	3013.	58.
30	1784.	N.A.	N.A.	293.	12:38	3009.	59.
31	1828.	N.A.	N.A.	289.	13:44	3005.	61.
MEAN	1657.	N.A.	N.A.			3081.	
STANDARD DEVIATION	428.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: BOULDER POST OFFICE
BOULDER, COLORADO

REPORT PERIOD: 79/ 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

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.	60.	48.	75.	10:35	44.	4:48	N.A.
2	37.	35.	38.	45.	0: 0	32.	10:20	N.A.
3	35.	35.	34.	40.	11:54	32.	6: 2	N.A.
4	53.	63.	43.	73.	14:16	31.	1: 9	N.A.
5	67.	76.	58.	87.	12:30	48.	0:14	N.A.
6	68.	78.	57.	92.	12:52	49.	23:58	N.A.
7	45.	47.	44.	54.	8:56	40.	18:32	N.A.
8	36.	37.	35.	41.	0: 2	31.	23:53	N.A.
9	30.	31.	29.	32.	14:16	28.	22:59	N.A.
10	37.	42.	32.	50.	11:27	27.	2:44	N.A.
11	50.	60.	40.	70.	13:28	32.	3: 4	N.A.
12	51.	60.	44.	67.	16:14	35.	3:41	N.A.
13	62.	71.	54.	77.	16:30	41.	3:26	N.A.
14	61.	66.	56.	80.	16: 4	51.	23:59	N.A.
15	65.	73.	57.	84.	11:43	48.	3:43	N.A.
16	67.	77.	58.	91.	12:46	48.	4:14	N.A.
17	67.	77.	58.	89.	11:52	54.	23:31	N.A.
18	64.	71.	57.	79.	16:21	49.	4: 5	N.A.
19	64.	73.	55.	85.	14: 6	47.	4:58	N.A.
20	47.	43.	50.	56.	1:54	41.	9:49	N.A.
21	60.	68.	53.	81.	16:14	44.	1:17	N.A.
22	60.	66.	55.	80.	12:42	51.	2:45	N.A.
23	53.	55.	52.	64.	16: 6	48.	22:35	N.A.
24	62.	69.	56.	81.	13:43	48.	4:43	N.A.
25	61.	68.	55.	79.	12:55	48.	4:13	N.A.
26	66.	74.	59.	86.	12:39	51.	4:34	N.A.
27	69.	79.	61.	93.	11:35	55.	4:55	N.A.
28	68.	75.	62.	89.	12:39	56.	4:33	N.A.
29	57.	63.	52.	74.	8:50	47.	22:10	N.A.
30	40.	40.	39.	48.	1: 0	36.	23:39	N.A.
31	48.	55.	43.	67.	15:20	35.	4: 8	N.A.
MEAN	55.	61.	49.					N.A.
STANDARD DEVIATION	11.7	14.8	9.3					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: BOULDER POST OFFICE
BOULDER, COLORADOREPORT PERIOD: 79/ 5
SITE NUMBER: 181LATITUDE: 39.45 DEG NORTH
LONGITUDE: 104.52 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEGTIME ZONE: MOUNTAIN
ALTITUDE: 5283 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL	EXTRATERRESTRIAL	TTL INS	
	INSOLATION	INSOLATION	INSOLATION	INSOLATION			
	BTU/FT ²	BTU/FT ²	BTU/FT ²	VALUE	BTU/FT ²	EXT INS	
				BTU/HR/FT ²		PERCENT	
				TIME			
				HR:MN			
1	1069.	N.A.	N.A.	259.	8:53	3025.	35.
2	292.	N.A.	N.A.	51.	12:49	3016.	10.
3	320.	N.A.	N.A.	105.	11:49	3007.	11.
4	2449.	N.A.	N.A.	336.	11:47	2998.	82.
5	1633.	N.A.	N.A.	364.	11:20	2990.	55.
6	2361.	N.A.	N.A.	329.	10:53	2981.	79.
7	470.	N.A.	N.A.	128.	12:50	2975.	16.
8	250.	N.A.	N.A.	48.	10:49	2966.	8.
9	187.	N.A.	N.A.	29.	10:32	2958.	6.
10	1209.	N.A.	N.A.	345.	10:50	2949.	41.
11	2422.	N.A.	N.A.	332.	10:53	2941.	82.
12	2361.	N.A.	N.A.	345.	10:43	2935.	80.
13	2423.	N.A.	N.A.	342.	11: 5	2927.	83.
14	2046.	N.A.	N.A.	339.	10:55	2919.	70.
15	1888.	N.A.	N.A.	323.	12:58	2911.	65.
16	1676.	N.A.	N.A.	332.	11: 0	2903.	58.
17	1627.	N.A.	N.A.	352.	11:36	2895.	56.
18	1187.	N.A.	N.A.	272.	11: 6	2888.	41.
19	2150.	N.A.	N.A.	307.	10:50	2881.	75.
20	328.	N.A.	N.A.	74.	10:42	2873.	11.
21	1913.	N.A.	N.A.	326.	11:53	2866.	67.
22	1538.	N.A.	N.A.	348.	11:49	2859.	54.
23	528.	N.A.	N.A.	96.	16: 1	2853.	19.
24	1976.	N.A.	N.A.	339.	10:58	2849.	69.
25	1498.	N.A.	N.A.	294.	10:31	2842.	53.
26	2319.	N.A.	N.A.	313.	11:14	2836.	82.
27	1906.	N.A.	N.A.	339.	11:13	2830.	67.
28	1520.	N.A.	N.A.	348.	10:25	2824.	54.
29	1010.	N.A.	N.A.	310.	11:46	2818.	36.
30	341.	N.A.	N.A.	64.	10:39	2813.	12.
31	1528.	N.A.	N.A.	393.	11:42	2808.	54.
MEAN	1433.	N.A.	N.A.			2908.	
STANDARD DEVIATION	766.	N.A.	N.A.			67.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: BOULDER POST OFFICE
BOULDER, COLORADO

REPORT PERIOD: 79/ 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

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.	15.	*	12:59
2	*	1.	*	1.	14.	*	4: 1
3	*	1.	*	1.	6.	*	12:53
4	*	3.	*	4.	17.	*	14: 0
5	*	3.	*	4.	20.	*	8: 3
6	*	5.	*	5.	26.	*	10:21
7	*	2.	*	3.	14.	*	4:24
8	*	1.	*	1.	12.	*	15:53
9	*	0.	*	0.	8.	*	15:47
10	*	2.	*	2.	11.	*	21:14
11	*	3.	*	3.	13.	*	23:36
12	*	3.	*	4.	18.	*	16:25
13	*	4.	*	5.	18.	*	14:22
14	*	3.	*	3.	12.	*	20:58
15	*	2.	*	2.	12.	*	12:26
16	*	3.	*	2.	21.	*	20:20
17	*	3.	*	3.	21.	*	16:35
18	*	1.	*	1.	6.	*	12:31
19	*	2.	*	2.	19.	*	18:31
20	*	2.	*	3.	18.	*	5:49
21	*	2.	*	2.	14.	*	23: 5
22	*	3.	*	3.	17.	*	15:33
23	*	1.	*	2.	9.	*	9:47
24	*	2.	*	2.	12.	*	22:15
25	*	3.	*	3.	15.	*	15:57
26	*	3.	*	2.	11.	*	14:47
27	*	3.	*	3.	12.	*	12:49
28	*	2.	*	1.	11.	*	20:17
29	*	2.	*	3.	14.	*	15: 8
30	*	1.	*	1.	17.	*	2: 4
31	*	1.	*	2.	12.	*	14:11
MEAN	0.	2.	0.	3.			
STANDARD DEVIATION	*****	1.0	*****	1.2			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: BOULDER POST OFFICE
BOULDER, COLORADO

REPORT PERIOD: 79/ 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

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	23	1	0	0	0	0	0	0	0
3	24	0	0	0	0	0	0	0	0
4	17	7	0	0	0	0	0	0	0
5	16	7	1	0	0	0	0	0	0
6	7	13	4	0	0	0	0	0	0
7	19	5	0	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	24	0	0	0	0	0	0	0	0
10	23	1	0	0	0	0	0	0	0
11	21	3	0	0	0	0	0	0	0
12	18	6	0	0	0	0	0	0	0
13	11	12	1	0	0	0	0	0	0
14	20	4	0	0	0	0	0	0	0
15	22	2	0	0	0	0	0	0	0
16	17	7	0	0	0	0	0	0	0
17	19	5	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	20	4	0	0	0	0	0	0	0
20	20	3	1	0	0	0	0	0	0
21	20	4	0	0	0	0	0	0	0
22	19	4	1	0	0	0	0	0	0
23	22	2	0	0	0	0	0	0	0
24	22	2	0	0	0	0	0	0	0
25	17	7	0	0	0	0	0	0	0
26	21	3	0	0	0	0	0	0	0
27	21	3	0	0	0	0	0	0	0
28	23	1	0	0	0	0	0	0	0
29	19	5	0	0	0	0	0	0	0
30	23	1	0	0	0	0	0	0	0
31	22	1	0	0	0	0	0	0	1
AVERAGE	19.9	3.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	618	117	8	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: CCLORADO SUNWORKS
LONGMONT, COLORADOREPORT PERIOD: 79/ 5
SITE NUMBER: 138LATITUDE: 39.45 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 104.52 DEG WEST PYRANOMETER TILT: 89 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	52.	61.	47.	70.	11:45	39.	1:30	53.
2	38.	36.	39.	48.	0: 1	32.	21:52	51.
3	36.	38.	35.	40.	15:21	30.	23:54	51.
4	49.	59.	42.	67.	15:11	28.	3:37	51.
5	62.	71.	56.	77.	12:52	42.	0: 4	57.
6	63.	75.	55.	83.	14:37	45.	3:15	52.
7	43.	45.	42.	50.	1:17	39.	20:41	53.
8	37.	39.	35.	41.	12:16	30.	23:39	52.
9	31.	34.	30.	36.	11:36	28.	23:58	53.
10	36.	42.	32.	48.	11:23	26.	3: 7	54.
11	46.	57.	39.	64.	14:28	28.	4: 4	53.
12	49.	57.	44.	64.	12:36	33.	5:14	54.
13	57.	69.	51.	75.	12:14	35.	4:30	59.
14	58.	68.	53.	77.	15:50	41.	3:53	57.
15	62.	74.	55.	83.	14:20	42.	3:29	57.
16	67.	77.	59.	87.	13:51	47.	3:29	56.
17	62.	75.	54.	88.	14: 0	44.	4:30	61.
18	63.	72.	57.	80.	15:29	46.	3:18	57.
19	61.	71.	55.	79.	13:42	51.	3:39	60.
20	47.	44.	48.	55.	1:16	42.	8:44	56.
21	58.	65.	54.	76.	13:54	44.	1:32	56.
22	59.	68.	53.	78.	12:49	43.	4:49	57.
23	54.	57.	52.	67.	15:35	46.	2:20	55.
24	63.	73.	58.	83.	15:48	47.	0: 2	57.
25	60.	69.	55.	76.	11:47	50.	3:15	56.
26	64.	75.	59.	81.	15: 5	45.	4:57	63.
27	66.	80.	59.	88.	15:46	47.	3:53	59.
28	66.	79.	59.	88.	12:34	49.	4:29	60.
29	57.	65.	52.	71.	10:53	47.	4: 7	59.
30	42.	43.	42.	48.	0: 7	38.	18:56	56.
31	49.	55.	45.	62.	16:20	39.	0:26	56.
MEAN	53.	61.	49.					56.
STANDARD DEVIATION	10.5	14.3	8.7					13.1

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: COLORADO SUNWORKS
LONGMONT, COLORADOREPORT PERIOD: 79/ 5
SITE NUMBER: 138LATITUDE: 39.45 DEG NORTH
LONGITUDE: 104.52 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEGTIME ZONE: MOUNTAIN
ALTITUDE: 5283 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	558.	N.A.	N.A.	150.	11: 8	1141.	49.
2	146.	N.A.	N.A.	52.	13: 4	1120.	13.
3	99.	N.A.	N.A.	23.	10:37	1102.	9.
4	491.	N.A.	N.A.	124.	9:45	1083.	45.
5	635.	N.A.	N.A.	121.	9:19	1065.	60.
6	571.	N.A.	N.A.	134.	13:49	1046.	55.
7	140.	N.A.	N.A.	56.	12:52	1029.	14.
8	43.	N.A.	N.A.	26.	14:56	1011.	4.
9	230.	N.A.	N.A.	62.	10:22	994.	23.
10	596.	N.A.	N.A.	150.	13:10	977.	61.
11	681.	N.A.	N.A.	140.	10:28	961.	71.
12	686.	N.A.	N.A.	157.	11: 6	945.	73.
13	776.	N.A.	N.A.	157.	11:16	930.	83.
14	823.	N.A.	N.A.	150.	11:24	914.	90.
15	805.	N.A.	N.A.	157.	12:54	899.	90.
16	777.	N.A.	N.A.	163.	11:27	885.	88.
17	822.	N.A.	N.A.	163.	11:31	871.	94.
18	562.	N.A.	N.A.	154.	12: 6	857.	66.
19	763.	N.A.	N.A.	137.	11: 7	843.	91.
20	157.	N.A.	N.A.	52.	11: 3	832.	19.
21	650.	N.A.	N.A.	132.	11:30	819.	79.
22	615.	N.A.	N.A.	148.	10:41	807.	76.
23	324.	N.A.	N.A.	86.	9:38	795.	41.
24	690.	N.A.	N.A.	145.	10:58	783.	88.
25	585.	N.A.	N.A.	126.	11:15	774.	76.
26	640.	N.A.	N.A.	120.	11:10	763.	84.
27	596.	N.A.	N.A.	126.	11:52	753.	79.
28	575.	N.A.	N.A.	132.	11:52	744.	77.
29	405.	N.A.	N.A.	129.	10:26	735.	55.
30	169.	N.A.	N.A.	71.	12:16	726.	23.
31	625.	N.A.	N.A.	126.	10:33	718.	87.
MEAN	524.	N.A.	N.A.			901.	
STANDARD DEVIATION	238.	N.A.	N.A.			129.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: CCLCRADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 79/ 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	DIRECTION	TIME HR:MN
1	201.	5.	195.	7.	24.	147.	12:38
2	221.	7.	223.	7.	19.	232.	3:33
3	329.	7.	328.	9.	17.	344.	5:23
4	13.	3.	18.	6.	10.	24.	13:24
5	42.	5.	48.	11.	21.	84.	11:21
6	75.	10.	73.	13.	31.	105.	23:31
7	*	9.	*	12.	23.	*	0:24
8	233.	9.	247.	10.	21.	215.	15:23
9	229.	9.	237.	9.	14.	220.	0:11
10	*	2.	*	2.	9.	*	16:22
11	215.	6.	34.	5.	27.	191.	22:34
12	*	4.	*	6.	17.	*	13:19
13	135.	6.	125.	9.	20.	116.	15:10
14	237.	4.	260.	4.	17.	194.	18:30
15	212.	5.	261.	4.	16.	199.	21:42
16	156.	7.	****	5.	25.	135.	20:15
17	286.	4.	306.	6.	24.	306.	16: 8
18	249.	4.	296.	2.	12.	233.	23:55
19	256.	5.	317.	4.	24.	233.	18:42
20	276.	9.	301.	8.	25.	224.	6: *
21	*	3.	*	3.	21.	*	18:47
22	256.	5.	258.	10.	17.	245.	15:18
23	265.	3.	257.	4.	12.	258.	7:30
24	209.	4.	213.	2.	15.	220.	23:42
25	208.	8.	213.	8.	28.	216.	15:26
26	*	1.	*	3.	9.	*	14:38
27	69.	4.	151.	4.	17.	43.	18:10
28	227.	4.	****	7.	23.	120.	14:37
29	249.	7.	240.	12.	26.	226.	15:14
30	*	5.	*	6.	13.	*	11:49
31	322.	3.	340.	5.	14.	210.	17:13
MEAN	238.	5.	268.	7.			
STANDARD DEVIATION	88.2	2.2	110.4	3.1			

ENVIRONMENTAL SUMMARY REPORT

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SITE: COLORADO SUNWORKS
LONGMONT, COLORADO

REPORT PERIOD: 79/ 5
SITE NUMBER: 138

LATITUDE: 39.45 DEG NORTH
LONGITUDE: 104.52 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 89 DEG

TIME ZONE: MOUNTAIN
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	13	5	5	1	0	0	0	0	0
2	10	6	3	5	0	0	0	0	0
3	9	3	11	1	0	0	0	0	0
4	14	9	1	0	0	0	0	0	0
5	13	3	5	3	0	0	0	0	0
6	6	4	5	6	2	1	0	0	0
7	6	3	12	3	0	0	0	0	0
8	5	4	10	5	0	0	0	0	0
9	2	3	19	0	0	0	0	0	0
10	20	4	0	0	0	0	0	0	0
11	9	9	3	2	1	0	0	0	0
12	15	7	2	0	0	0	0	0	0
13	9	7	6	2	0	0	0	0	0
14	13	9	2	0	0	0	0	0	0
15	12	7	4	1	0	0	0	0	0
16	10	7	1	2	2	0	0	0	2
17	15	5	2	2	0	0	0	0	0
18	12	9	3	0	0	0	0	0	0
19	10	11	2	0	1	0	0	0	0
20	2	11	8	1	2	0	0	0	0
21	15	8	1	0	0	0	0	0	0
22	12	4	8	0	0	0	0	0	0
23	15	7	0	0	0	0	0	0	0
24	17	3	2	2	0	0	0	0	0
25	7	9	3	4	1	0	0	0	0
26	21	3	0	0	0	0	0	0	0
27	17	3	2	2	0	0	0	0	0
28	18	3	2	1	0	0	0	0	0
29	10	6	4	3	1	0	0	0	0
30	10	11	3	0	0	0	0	0	0
31	15	6	0	0	0	0	0	0	3
AVERAGE	11.7	6.1	4.2	1.5	0.3	0.0	0.0	0.0	0.2
TOTAL	362	189	131	46	10	1	0	0	5

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HCMES BY MARILYN
 ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 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	63.	71.	55.	77.	12:12	42.	5:22	
2	61.	68.	54.	79.	14:27	50.	2:33	
3	53.	58.	48.	71.	11:26	40.	5:44	
4	60.	71.	51.	80.	15:27	43.	2:28	
5	65.	77.	54.	90.	14: 5	37.	4:58	
6	72.	82.	63.	90.	13:32	48.	4:23	
7	69.	79.	60.	87.	13:54	43.	5: 6	
8	62.	73.	53.	83.	13:28	41.	23:57	
9	47.	50.	44.	58.	16: 5	39.	23:33	
10	49.	54.	42.	67.	13:12	36.	23:57	
11	52.	63.	43.	72.	15:17	31.	5:25	
12	58.	68.	49.	77.	16:34	36.	5:31	
13	60.	74.	49.	82.	14:26	35.	5:12	
14	66.	82.	52.	93.	13:46	37.	4:42	
15	62.	74.	52.	86.	11:53	41.	5:13	
16	66.	76.	58.	89.	14:11	53.	3:58	
17	67.	75.	60.	83.	13:54	51.	23:56	
18	70.	81.	59.	90.	14:38	46.	4:19	
19	71.	82.	62.	90.	13:31	49.	4:51	
20	52.	55.	50.	63.	6:29	44.	21:57	
21	57.	66.	50.	75.	16:46	39.	5:39	
22	66.	78.	57.	88.	13:50	44.	1:29	
23	70.	81.	60.	91.	15:32	47.	4:52	
24	66.	73.	59.	85.	15:25	53.	5:24	
25	64.	73.	57.	83.	15: 1	54.	5: 4	
26	61.	66.	57.	72.	14:45	49.	23:54	
27	64.	72.	58.	82.	15:26	44.	1:14	
28	69.	78.	62.	89.	12: 0	51.	4:21	
29	71.	82.	63.	90.	11: 3	49.	5:11	
30	72.	82.	64.	91.	15:33	49.	4:42	
31	67.	77.	59.	87.	11:41	47.	4:40	
MEAN	63.	72.	55.					
STANDARD DEVIATION	6.8	8.8	6.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HOMES BY MARILYN
ALBUQUERQUE, NEW MEXICO

REFCFT PERIOD: 79/ 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

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL		EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
				INSCLATION VALUE ETU/HR/FT2	TIME HR:MM		
1	1467.	N.A.	N.A.	296.	11:14	2536.	58.
2	1561.	N.A.	N.A.	316.	12:19	2523.	63.
3	1123.	N.A.	N.A.	337.	11:20	2507.	45.
4	1885.	N.A.	N.A.	334.	12:52	2495.	76.
5	1701.	N.A.	N.A.	295.	13:59	2480.	69.
6	2030.	N.A.	N.A.	286.	12:28	2465.	82.
7	1880.	N.A.	N.A.	325.	12: 2	2453.	77.
8	1707.	N.A.	N.A.	313.	12:19	2441.	70.
9	928.	N.A.	N.A.	319.	12:53	2427.	38.
10	1155.	N.A.	N.A.	331.	13:12	2413.	48.
11	1805.	N.A.	N.A.	280.	11:55	2402.	75.
12	1948.	N.A.	N.A.	280.	12:21	2388.	82.
13	1928.	N.A.	N.A.	274.	12:24	2375.	81.
14	1931.	N.A.	N.A.	277.	12:20	2365.	82.
15	1086.	N.A.	N.A.	235.	10:22	2355.	46.
16	1472.	N.A.	N.A.	280.	13:28	2342.	63.
17	1499.	N.A.	N.A.	298.	12:55	2330.	64.
18	1580.	N.A.	N.A.	277.	12:51	2321.	68.
19	1836.	N.A.	N.A.	262.	12:43	2309.	79.
20	255.	N.A.	N.A.	153.	11: 7	2298.	13.
21	1841.	N.A.	N.A.	274.	12:24	2287.	81.
22	1627.	N.A.	N.A.	262.	12: 4	2278.	71.
23	1690.	N.A.	N.A.	262.	13: 3	2270.	74.
24	1394.	N.A.	N.A.	265.	11:31	2260.	62.
25	1439.	N.A.	N.A.	304.	11:54	2250.	64.
26	924.	N.A.	N.A.	253.	14:40	2241.	41.
27	1189.	N.A.	N.A.	195.	15:17	2234.	53.
28	1417.	N.A.	N.A.	292.	12: 0	2225.	64.
29	1590.	N.A.	N.A.	304.	11:51	2216.	72.
30	1642.	N.A.	N.A.	289.	13:46	2208.	74.
31	1350.	N.A.	N.A.	277.	12:29	2200.	61.
MEAN	1514.	N.A.	N.A.			2351.	
STANDARD DEVIATION	379.	N.A.	N.A.			102.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HULLCO
PRESCOTT, ARIZONAREPORT PERIOD: 79/ 5
SITE NUMBER: 148LATITUDE: 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	54.	61.	49.	66.	14:38	39.	23:31	N.A.
2	49.	55.	44.	62.	11:40	34.	4:44	N.A.
3	55.	60.	50.	70.	16:25	42.	1:40	N.A.
4	57.	67.	48.	76.	15:45	35.	5:43	N.A.
5	62.	71.	55.	78.	14:25	41.	6:15	N.A.
6	63.	68.	58.	73.	13:42	54.	6:20	N.A.
7	57.	62.	52.	67.	12: 9	47.	5:45	N.A.
8	42.	44.	41.	51.	15: 8	34.	23:56	N.A.
9	36.	40.	33.	48.	10:31	27.	3:56	N.A.
10	44.	52.	38.	62.	15:44	27.	5:47	N.A.
11	50.	59.	42.	69.	15:26	27.	5:23	N.A.
12	56.	65.	49.	73.	13:57	37.	1:44	N.A.
13	58.	72.	48.	82.	15:17	33.	4: 0	N.A.
14	64.	77.	53.	87.	14:47	39.	5:11	N.A.
15	62.	73.	53.	79.	11:59	43.	23:59	N.A.
16	60.	73.	50.	79.	13:27	39.	5:11	N.A.
17	62.	72.	54.	82.	15:25	42.	5: 1	N.A.
18	62.	73.	54.	82.	15:17	42.	5: 9	N.A.
19	56.	62.	52.	74.	10:40	45.	5:41	N.A.
20	48.	48.	47.	54.	16:58	42.	22:39	N.A.
21	59.	66.	52.	78.	15:30	40.	5:27	N.A.
22	65.	75.	56.	87.	14:58	45.	5:38	N.A.
23	67.	77.	58.	84.	13:48	48.	5:59	N.A.
24	58.	64.	53.	75.	9: 6	50.	23:59	N.A.
25	57.	60.	55.	70.	16:43	48.	1:10	N.A.
26	55.	59.	51.	69.	11:40	45.	5:37	N.A.
27	59.	64.	56.	69.	15:16	51.	23: 0	N.A.
28	62.	69.	56.	77.	15:24	45.	5:40	N.A.
29	63.	71.	57.	78.	15:30	48.	5:11	N.A.
30	62.	72.	54.	78.	14:44	42.	5:24	N.A.
31	63.	73.	54.	81.	15:30	42.	5:11	N.A.
MEAN	57.	65.	51.					N.A.
STANDARD DEVIATION	7.1	9.5	6.0					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HULLCO
PRESCOTT, ARIZONA

REPORT PERIOD: 79/ 5
SITE NUMBER: 148

LATITUDE: 34.00 DEG NORTH
LONGITUDE: 114.40 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 60 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 7000 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTJ/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	1418.	N.A.	N.A.	227.	13:39	2286.	62.
2	1503.	N.A.	N.A.	318.	12:34	2268.	66.
3	1102.	N.A.	N.A.	265.	11:53	2253.	49.
4	1840.	N.A.	N.A.	265.	12:23	2239.	82.
5	1872.	N.A.	N.A.	268.	12: 1	2222.	84.
6	1867.	N.A.	N.A.	268.	11:45	2207.	85.
7	1798.	N.A.	N.A.	271.	12: 9	2193.	82.
8	613.	N.A.	N.A.	289.	13:48	2179.	28.
9	499.	N.A.	N.A.	250.	10:31	2163.	23.
10	1682.	N.A.	N.A.	306.	11:49	2150.	78.
11	1834.	N.A.	N.A.	268.	12: 8	2135.	86.
12	1847.	N.A.	N.A.	271.	12:24	2119.	87.
13	1853.	N.A.	N.A.	271.	12:21	2107.	88.
14	1484.	N.A.	N.A.	301.	12:55	2095.	71.
15	1441.	N.A.	N.A.	277.	11:43	2080.	69.
16	1651.	N.A.	N.A.	292.	12:12	2069.	80.
17	1719.	N.A.	N.A.	289.	12:24	2055.	84.
18	1435.	N.A.	N.A.	268.	11:22	2044.	70.
19	858.	N.A.	N.A.	250.	12: 0	2033.	42.
20	356.	N.A.	N.A.	85.	16:26	2021.	18.
21	1721.	N.A.	N.A.	259.	12:45	2008.	86.
22	1577.	N.A.	N.A.	256.	12: 7	1999.	79.
23	1353.	N.A.	N.A.	265.	12:50	1987.	68.
24	504.	N.A.	N.A.	159.	9: 6	1976.	26.
25	783.	N.A.	N.A.	236.	13:53	1967.	40.
26	669.	N.A.	N.A.	271.	10:20	1958.	34.
27	889.	N.A.	N.A.	250.	11:22	1948.	46.
28	1689.	N.A.	N.A.	248.	11:55	1938.	87.
29	1701.	N.A.	N.A.	253.	12: 7	1931.	88.
30	1708.	N.A.	N.A.	250.	12: 9	1922.	89.
31	1511.	N.A.	N.A.	292.	12:28	1913.	79.
MEAN	1380.	N.A.	N.A.			2080.	
STANDARD DEVIATION	481.	N.A.	N.A.			114.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: HULLCO
PRESCOTT, ARIZONA

REPORT PERIOD: 79/ 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	34.	5.	37.	7.	11.	28.	14:54
2	354.	4.	0.	8.	15.	1.	13:43
3	315.	2.	310.	3.	9.	298.	14:38
4	*	2.	*	3.	7.	*	14:20
5	19.	6.	23.	9.	18.	4.	14:46
6	24.	8.	26.	11.	20.	343.	15: 8
7	19.	11.	14.	13.	24.	353.	12:57
8	357.	9.	351.	10.	21.	353.	3:14
9	338.	2.	342.	5.	13.	31.	16: 7
10	279.	3.	284.	5.	11.	359.	14: 3
11	237.	3.	227.	4.	9.	198.	11:20
12	189.	4.	184.	7.	10.	202.	8:35
13	*	2.	*	4.	9.	*	12:21
14	20.	2.	24.	4.	9.	56.	15:40
15	21.	4.	20.	7.	13.	354.	14:23
16	24.	3.	27.	6.	16.	349.	13: 5
17	53.	2.	***	3.	8.	190.	13:22
18	32.	2.	40.	4.	11.	33.	12: 5
19	13.	2.	350.	3.	39.	26.	13:25
20	*	1.	*	2.	9.	*	9:58
21	299.	2.	275.	3.	9.	305.	18:15
22	*	2.	*	3.	8.	*	15:35
23	4.	3.	7.	6.	13.	19.	14:47
24	4.	3.	33.	5.	32.	26.	12:57
25	174.	2.	184.	4.	15.	239.	11:39
26	*	1.	*	3.	21.	*	13:11
27	*	2.	*	3.	9.	*	15:16
28	44.	5.	49.	8.	15.	25.	17:54
29	41.	5.	44.	8.	13.	20.	16:18
30	32.	4.	35.	7.	14.	2.	13:29
31	33.	3.	44.	5.	11.	32.	11:51
MEAN	118.	4.	122.	6.			
STANDARD DEVIATION	132.2	2.3	130.5	2.7			

ENVIRONMENTAL SUMMARY REPORT

SITE: HULLCO
PRESCOTT, ARIZONA

REPORT PERIOD: 79/ 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	35.	27.	41.	71.	22:27	17.	0:25
2	42.	30.	53.	70.	21: 0	14.	11:30
3	41.	32.	49.	74.	1:29	19.	17: 8
4	44.	26.	59.	100.	4:17	6.	17: 0
5	26.	17.	33.	69.	6:20	6.	16:17
6	11.	8.	14.	26.	23:40	4.	11:40
7	26.	21.	31.	44.	23:58	12.	11:53
8	72.	64.	80.	100.	9:32	28.	16: 7
9	88.	75.	99.	100.	0: 2	37.	10:36
10	52.	35.	66.	100.	0: 2	10.	16:53
11	41.	23.	56.	100.	4:30	8.	15:26
12	19.	11.	26.	59.	1:44	1.	15:22
13	18.	8.	27.	49.	6:18	0.	15:44
14	19.	8.	28.	48.	6:10	0.	15:30
15	19.	9.	27.	45.	6:39	0.	14:18
16	21.	11.	29.	48.	5:53	4.	15:56
17	27.	15.	36.	59.	23:57	6.	16:24
18	38.	20.	53.	89.	5:52	9.	14:45
19	79.	62.	92.	100.	4:26	23.	10:50
20	99.	99.	99.	100.	0: 5	81.	17:19
21	70.	57.	80.	100.	0: 5	20.	14:53
22	58.	32.	80.	100.	0:29	9.	13:59
23	48.	22.	68.	100.	2:31	11.	13:27
24	77.	62.	88.	100.	13:45	26.	9:35
25	71.	61.	78.	100.	0: 4	23.	17:26
26	90.	81.	97.	100.	0: 6	41.	11:29
27	74.	62.	84.	100.	0: 1	47.	12:15
28	54.	36.	68.	100.	0:20	21.	17: 0
29	39.	26.	49.	81.	5:11	14.	16:13
30	43.	24.	58.	100.	4:47	11.	14: 7
31	36.	20.	49.	88.	5:11	10.	16:39
MEAN	48.	35.	58.				
STANDARD DEVIATION	24.	25.	25.				

ENVIRONMENTAL SUMMARY REPORT

PAGE 5

SITE: HULLCO
PRESCOTT, ARIZONA

REPORT PERIOD: 79/ 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	9	12	3	0	0	0	0	0	0
2	12	8	4	0	0	0	0	0	0
3	19	5	0	0	0	0	0	0	0
4	21	3	0	0	0	0	0	0	0
5	10	2	10	2	0	0	0	0	0
6	5	6	10	3	0	0	0	0	0
7	3	5	8	7	1	0	0	0	0
8	6	2	8	8	0	0	0	0	0
9	16	8	0	0	0	0	0	0	0
10	15	8	1	0	0	0	0	0	0
11	14	10	0	0	0	0	0	0	0
12	10	13	1	0	0	0	0	0	0
13	17	7	0	0	0	0	0	0	0
14	18	6	0	0	0	0	0	0	0
15	13	7	4	0	0	0	0	0	0
16	15	6	3	0	0	0	0	0	0
17	19	5	0	0	0	0	0	0	0
18	17	7	0	0	0	0	0	0	0
19	19	5	0	0	0	0	0	0	0
20	22	2	0	0	0	0	0	0	0
21	18	6	0	0	0	0	0	0	0
22	19	5	0	0	0	0	0	0	0
23	15	4	5	0	0	0	0	0	0
24	14	7	3	0	0	0	0	0	0
25	22	0	2	0	0	0	0	0	0
26	22	2	0	0	0	0	0	0	0
27	19	5	0	0	0	0	0	0	0
28	10	5	9	0	0	0	0	0	0
29	11	5	8	0	0	0	0	0	0
30	13	5	6	0	0	0	0	0	0
31	13	10	0	0	0	0	0	0	1
AVERAGE	14.7	5.8	2.7	0.6	0.0	0.0	0.0	0.0	0.0
TOTAL	456	181	85	20	1	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 5
SITE NUMBER: 24

LATITUDE: 35.06 DEG NORTH
LONGITUDE: 106.60 DEG WEST

AZIMUTH: 0 DEG
PYRANGMETER TILT: 30 DEG

TIME ZONE: MOUNTAIN
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	62.	68.	54.	77.	14:40	43.	4:37	N.A.
2	60.	66.	55.	81.	14:21	49.	5:49	N.A.
3	49.	52.	47.	63.	16:15	36.	13:19	N.A.
4	59.	69.	49.	81.	15:56	39.	5:32	N.A.
5	65.	75.	55.	87.	14:10	44.	3:35	N.A.
6	70.	79.	60.	88.	11:46	47.	5:27	N.A.
7	68.	76.	61.	86.	13:24	49.	2:38	N.A.
8	61.	69.	52.	80.	14:20	40.	23:35	N.A.
9	45.	47.	42.	54.	15:13	37.	22:57	N.A.
10	47.	53.	40.	62.	13:13	36.	4:35	N.A.
11	53.	61.	40.	72.	15: 2	33.	2:46	N.A.
12	50.	*	50.	53.	20:41	46.	23:37	N.A.
13	62.	72.	51.	85.	14:54	38.	5:18	N.A.
14	69.	80.	58.	89.	13:34	44.	4:19	N.A.
15	67.	75.	58.	80.	12:59	48.	4: 3	N.A.
16	66.	73.	58.	88.	13:17	54.	23:57	N.A.
17	66.	72.	55.	83.	14:42	52.	4:18	N.A.
18	68.	78.	58.	94.	14:38	47.	3: 5	N.A.
19	71.	80.	62.	91.	14: 8	53.	3:58	N.A.
20	53.	54.	53.	67.	6:45	44.	22: 8	N.A.
21	58.	66.	50.	76.	16:25	41.	5:24	N.A.
22	67.	76.	58.	91.	14:14	46.	4:44	N.A.
23	72.	81.	62.	94.	13:57	54.	4:21	N.A.
24	66.	73.	55.	87.	13:47	53.	4:31	N.A.
25	63.	70.	55.	82.	14:39	52.	4:58	N.A.
26	59.	65.	54.	73.	16:37	51.	23:55	N.A.
27	64.	72.	57.	82.	16:28	48.	1:36	N.A.
28	67.	73.	60.	83.	11:24	54.	4:50	N.A.
29	71.	79.	63.	85.	15:41	53.	5:12	N.A.
30	72.	79.	64.	90.	14:23	54.	3: 0	N.A.
31	71.	77.	60.	90.	13:33	56.	5:23	N.A.
MEAN	63.	70.	55.					N.A.
STANDARD DEVIATION	7.7	9.1	6.5					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 5
SITE NUMBER: 24

LATITUDE: 35.06 DEG NORTH
LONGITUDE: 106.60 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5350 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE BTU/HR/FT2	TIME HR:MM	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS EXT INS PERCENT
1	1634.	N.A.	N.A.	326.	11:33	3273.	50.
2	2315.	N.A.	N.A.	370.	12:24	3270.	71.
3	1438.	N.A.	N.A.	479.	13:30	3266.	44.
4	2345.	N.A.	N.A.	408.	11:56	3263.	72.
5	2239.	N.A.	N.A.	341.	11:45	3259.	69.
6	2521.	N.A.	N.A.	344.	12: 2	3255.	77.
7	2254.	N.A.	N.A.	357.	11:48	3252.	69.
8	2265.	N.A.	N.A.	370.	12:50	3248.	70.
9	922.	N.A.	N.A.	357.	12:17	3244.	28.
10	1653.	N.A.	N.A.	374.	12:30	3241.	51.
11	2364.	N.A.	N.A.	348.	11:45	3237.	73.
12	*	N.A.	N.A.	*	*:*	3231.	*
13	2482.	N.A.	N.A.	337.	11:21	3227.	77.
14	2492.	N.A.	N.A.	341.	11:58	3223.	77.
15	1999.	N.A.	N.A.	370.	12:54	3220.	50.
16	1870.	N.A.	N.A.	325.	12: 7	3216.	58.
17	2226.	N.A.	N.A.	370.	12:34	3212.	65.
18	2053.	N.A.	N.A.	337.	10:38	3209.	64.
19	2389.	N.A.	N.A.	325.	12:16	3205.	75.
20	662.	N.A.	N.A.	479.	14:13	3202.	21.
21	2336.	N.A.	N.A.	382.	12:41	3198.	73.
22	2343.	N.A.	N.A.	329.	12: 6	3195.	73.
23	2274.	N.A.	N.A.	322.	11:33	3191.	71.
24	1768.	N.A.	N.A.	333.	11:36	3188.	55.
25	1761.	N.A.	N.A.	363.	11:56	3185.	55.
26	1276.	N.A.	N.A.	281.	14: 2	3179.	40.
27	1700.	N.A.	N.A.	318.	10:36	3176.	54.
28	1953.	N.A.	N.A.	382.	12:28	3173.	62.
29	2165.	N.A.	N.A.	344.	11:41	3170.	68.
30	2131.	N.A.	N.A.	359.	12:36	3167.	67.
31	2157.	N.A.	N.A.	329.	13:33	3164.	68.
MEAN	1986.	N.A.	N.A.			3217.	
STANDARD DEVIATION	466.	N.A.	N.A.			34.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: KIRTLAND AIR FORCE BASE
ALEBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 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 FR:MN
1	42.	3.	35.	4.	11.	18.	12:32
2	139.	4.	139.	5.	17.	164.	15:14
3	277.	5.	286.	7.	16.	253.	4:26
4	*	2.	*	2.	9.	*	11:19
5	4.	4.	11.	4.	12.	31.	21:49
6	64.	6.	61.	8.	21.	42.	14:58
7	44.	8.	45.	12.	27.	59.	17:24
8	48.	9.	35.	12.	25.	7.	13:48
9	*	3.	*	3.	16.	*	12:38
10	88.	3.	103.	4.	13.	130.	14:36
11	*	2.	*	2.	6.	*	16:17
12	*	*	*	*	*	*	*:*
13	*	2.	*	2.	9.	*	17:29
14	*	1.	*	1.	6.	*	13:13
15	306.	4.	314.	5.	18.	318.	16:22
16	1.	3.	15.	4.	24.	334.	15:57
17	72.	3.	81.	4.	11.	65.	15: 8
18	4.	3.	23.	3.	18.	343.	18:38
19	356.	4.	16.	4.	12.	13.	16:11
20	305.	3.	304.	4.	13.	7.	14:35
21	*	2.	*	3.	9.	*	18:28
22	265.	4.	242.	3.	16.	310.	20:33
23	273.	6.	***	3.	20.	292.	19:49
24	*	4.	*	5.	26.	*	17:10
25	48.	2.	62.	3.	13.	107.	17:14
26	143.	2.	153.	2.	12.	77.	16:24
27	*	2.	*	2.	7.	*	17:48
28	42.	4.	57.	5.	18.	62.	13:22
29	115.	3.	117.	4.	10.	59.	12:34
30	8.	4.	19.	6.	14.	339.	17:19
31	272.	6.	***	4.	17.	294.	22:16
MEAN	133.	4.	106.	4.			
STANDARD DEVIATION	120.0	1.9	102.0	2.5			

ENVIRONMENTAL SUMMARY REPORT

SITE: KIRTLAND AIR FORCE BASE
ALEBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 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	17	6	1	0	0	0	0	0	0
2	16	4	4	0	0	0	0	0	0
3	11	6	5	0	0	0	0	0	0
4	20	4	0	0	0	0	0	0	0
5	14	9	1	0	0	0	0	0	0
6	9	8	4	3	0	0	0	0	0
7	6	5	7	5	1	0	0	0	0
8	4	10	5	4	1	0	0	0	0
9	18	3	1	0	0	0	0	0	2
10	20	3	1	0	0	0	0	0	5
11	17	2	0	0	0	0	0	0	0
12	5	0	0	0	0	0	0	0	19
13	22	2	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	17	2	5	0	0	0	0	0	0
16	17	5	1	1	0	0	0	0	0
17	18	6	0	0	0	0	0	0	0
18	17	6	1	0	0	0	0	0	0
19	9	14	1	0	0	0	0	0	0
20	19	5	0	0	0	0	0	0	0
21	20	4	0	0	0	0	0	0	0
22	15	3	6	0	0	0	0	0	0
23	11	5	4	4	0	0	0	0	0
24	16	6	1	1	0	0	0	0	0
25	20	3	1	0	0	0	0	0	0
26	17	7	0	0	0	0	0	0	0
27	21	3	0	0	0	0	0	0	0
28	17	4	2	1	0	0	0	0	0
29	14	10	0	0	0	0	0	0	0
30	11	13	0	0	0	0	0	0	0
31	9	3	7	0	0	0	0	0	5
AVERAGE	15.2	5.2	1.9	0.7	0.1	0.0	0.0	0.0	1.0
TOTAL	471	161	58	21	2	0	0	0	31

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: PERL MACK
MONTBELLE, COLORADO

REPORT PERIOD: 7/ 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

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.	47.	67.	11:30	42.	5: 6	64.
2	39.	37.	40.	47.	0: 2	33.	10:55	72.
3	37.	39.	35.	43.	11:23	33.	23:54	68.
4	51.	58.	43.	69.	16:36	31.	2:12	70.
5	63.	70.	57.	79.	15:47	48.	1: 3	70.
6	64.	74.	53.	82.	14:43	45.	23:47	67.
7	47.	50.	40.	59.	12:59	39.	19:34	65.
8	39.	41.	36.	47.	12:34	31.	23:30	71.
9	31.	32.	30.	34.	9:52	28.	23:33	71.
10	36.	39.	32.	45.	15:41	27.	0:29	70.
11	47.	54.	40.	61.	14:58	30.	3:24	72.
12	50.	56.	44.	63.	12:55	36.	4:44	70.
13	60.	67.	53.	73.	16: 3	42.	1:59	67.
14	61.	67.	54.	76.	15: 2	45.	4: 1	71.
15	65.	73.	56.	83.	13:16	46.	4:26	71.
16	65.	74.	56.	82.	13:49	46.	4: 3	70.
17	64.	73.	54.	82.	15: 1	51.	22: 7	71.
18	65.	72.	56.	83.	14:41	51.	3:18	71.
19	62.	67.	56.	75.	14: 8	51.	23:44	68.
20	47.	46.	49.	54.	3:44	41.	9:41	73.
21	59.	65.	52.	76.	15: 9	42.	1:17	70.
22	60.	67.	53.	76.	13:48	49.	1:42	71.
23	55.	57.	53.	60.	17:51	50.	21:41	74.
24	60.	66.	54.	76.	15:12	44.	4:37	70.
25	60.	64.	55.	75.	15:41	51.	3:20	74.
26	64.	70.	58.	76.	15:52	50.	4:45	69.
27	66.	73.	59.	85.	13:38	52.	4:24	73.
28	67.	73.	59.	83.	14:59	53.	4:14	70.
29	59.	65.	52.	75.	11:37	47.	23: 5	71.
30	42.	43.	41.	49.	0:18	35.	20:29	75.
31	47.	51.	42.	61.	16:13	36.	3:14	73.
MEAN	54.	59.	49.					70.
STANDARD DEVIATION	10.5	12.8	8.6					2.5

ENVIRONMENTAL SUMMARY REPORT

SITE: PERL MACK
MONTBELLC. COLORADO

REPORT PERIOD: 79/ 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		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE	TIME		
				ETU/HR/FT2	HR:MN		
1	1394.	N.A.	N.A.	303.	11:25	3355.	42.
2	327.	N.A.	N.A.	84.	14:44	3354.	10.
3	789.	N.A.	N.A.	363.	11:17	3350.	24.
4	2396.	N.A.	N.A.	332.	11:21	3349.	72.
5	1381.	N.A.	N.A.	308.	10: 7	3345.	41.
6	2381.	N.A.	N.A.	329.	11:47	3344.	71.
7	1076.	N.A.	N.A.	294.	10: 3	3343.	32.
8	351.	N.A.	N.A.	115.	10: 5	3342.	10.
9	133.	N.A.	N.A.	66.	10:40	3340.	4.
10	1523.	N.A.	N.A.	424.	11:41	3339.	46.
11	2249.	N.A.	N.A.	332.	11:35	3335.	67.
12	2257.	N.A.	N.A.	357.	12:12	3333.	69.
13	2335.	N.A.	N.A.	346.	11:46	3332.	70.
14	2237.	N.A.	N.A.	320.	11:34	3330.	67.
15	2231.	N.A.	N.A.	352.	12:12	3329.	67.
16	1958.	N.A.	N.A.	325.	11:25	3327.	59.
17	1880.	N.A.	N.A.	326.	12:46	3323.	57.
18	1812.	N.A.	N.A.	366.	12:22	3321.	55.
19	2050.	N.A.	N.A.	346.	12:11	3319.	62.
20	424.	N.A.	N.A.	127.	12:43	3318.	13.
21	2094.	N.A.	N.A.	314.	11:20	3313.	63.
22	1982.	N.A.	N.A.	337.	11:24	3311.	60.
23	916.	N.A.	N.A.	213.	8:21	3310.	28.
24	2136.	N.A.	N.A.	317.	13: 4	3308.	65.
25	1475.	N.A.	N.A.	308.	13:17	3306.	45.
26	2312.	N.A.	N.A.	326.	11: 4	3305.	70.
27	1965.	N.A.	N.A.	334.	13:33	3303.	59.
28	1718.	N.A.	N.A.	332.	11:53	3302.	52.
29	1274.	N.A.	N.A.	363.	9:56	3297.	36.
30	407.	N.A.	N.A.	133.	11:52	3296.	12.
31	1357.	N.A.	N.A.	360.	10:58	3294.	41.
MEAN	1576.	N.A.	N.A.			3325.	
STANDARD DEVIATION	709.	N.A.	N.A.			19.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: PUBLIC SERVICE
ALBUQUERQUE, NEW MEXICO

REPORT PERIOD: 79/ 5
SITE NUMBER: 201

LATITUDE: 35.03 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 106.37 DEG WEST PYRANOMETER TILT: 32 DEG ALTITUDE: 5311 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.	61.	45.	72.	10:53	42.	5:17	
2	57.	61.	51.	75.	12:37	46.	23:59	
3	48.	52.	45.	62.	11:21	40.	5:13	
4	56.	64.	49.	77.	16:17	41.	5:11	
5	63.	72.	53.	85.	14:16	39.	5: 0	
6	67.	76.	58.	85.	14:27	47.	1:39	
7	67.	74.	59.	83.	14:20	49.	3:51	
8	59.	67.	47.	78.	14:17	40.	23:15	
9	42.	45.	40.	56.	16:16	35.	23:38	
10	44.	51.	38.	62.	12:25	32.	3:58	
11	52.	60.	43.	73.	14:47	31.	3:56	
12	56.	64.	49.	79.	15:19	38.	2:20	
13	62.	71.	52.	80.	15:29	40.	5:11	
14	67.	77.	55.	88.	14:28	44.	4:47	
15	63.	71.	55.	85.	13:31	48.	4:15	
16	63.	70.	55.	86.	12:56	52.	23:58	
17	62.	69.	55.	78.	13:11	51.	2:26	
18	67.	77.	57.	87.	14:12	45.	4:42	
19	68.	78.	58.	87.	14:55	47.	4:36	
20	51.	53.	49.	65.	6:40	44.	22:24	
21	58.	66.	48.	78.	13: 1	40.	5: 1	
22	66.	76.	56.	88.	12:52	48.	3:22	
23	69.	78.	60.	90.	15:13	53.	3:51	
24	63.	70.	57.	83.	14:23	52.	5: 0	
25	62.	68.	55.	80.	13:45	52.	5:13	
26	57.	60.	53.	65.	15: 5	50.	5:13	
27	62.	70.	55.	79.	16:51	48.	3: 6	
28	67.	74.	59.	83.	13:13	50.	3:10	
29	69.	77.	61.	84.	15:46	50.	4:55	
30	70.	77.	62.	85.	15:53	49.	4:25	
31	67.	75.	58.	85.	11:29	52.	3:19	
MEAN	61.	68.	53.					
STANDARD DEVIATION	7.4	8.9	6.3					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: PUBLIC SERVICE
ALBUQUERQUE, NEW MEXICOREPORT PERIOD: 79/ 5
SITE NUMBER: 201LATITUDE: 35.03 DEG NORTH
LONGITUDE: 106.37 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 32 DEGTIME ZONE: MOUNTAIN
ALTITUDE: 5311 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTJ/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	2044.	N.A.	N.A.	323.	10:47	3236.	63.
2	2030.	N.A.	N.A.	354.	12:15	3231.	63.
3	1257.	N.A.	N.A.	378.	10:49	3226.	39.
4	2376.	N.A.	N.A.	372.	12:44	3222.	74.
5	2090.	N.A.	N.A.	342.	12:23	3217.	65.
6	2453.	N.A.	N.A.	339.	12:14	3213.	76.
7	2130.	N.A.	N.A.	354.	12:28	3205.	66.
8	2031.	N.A.	N.A.	363.	13: 2	3200.	63.
9	1053.	N.A.	N.A.	357.	11: 6	3196.	33.
10	1269.	N.A.	N.A.	369.	13:13	3191.	40.
11	2229.	N.A.	N.A.	330.	12:55	3186.	70.
12	2304.	N.A.	N.A.	320.	11:40	3182.	72.
13	2334.	N.A.	N.A.	323.	11:56	3177.	73.
14	2316.	N.A.	N.A.	320.	11:59	3173.	73.
15	1244.	N.A.	N.A.	278.	11:55	3168.	39.
16	1647.	N.A.	N.A.	333.	11:26	3164.	52.
17	1596.	N.A.	N.A.	351.	11:35	3159.	51.
18	2050.	N.A.	N.A.	330.	12: 4	3155.	65.
19	2223.	N.A.	N.A.	308.	11:43	3150.	71.
20	341.	N.A.	N.A.	162.	13:25	3146.	11.
21	2203.	N.A.	N.A.	348.	11:57	3142.	70.
22	1979.	N.A.	N.A.	317.	13:24	3138.	63.
23	2075.	N.A.	N.A.	308.	11:51	3134.	66.
24	1547.	N.A.	N.A.	330.	11:43	3130.	49.
25	1582.	N.A.	N.A.	342.	12:41	3126.	51.
26	930.	N.A.	N.A.	262.	15: 5	3122.	30.
27	1499.	N.A.	N.A.	253.	11:42	3119.	48.
28	1860.	N.A.	N.A.	357.	12:46	3115.	60.
29	2160.	N.A.	N.A.	369.	11:41	3109.	69.
30	2118.	N.A.	N.A.	327.	13: 8	3105.	68.
31	1687.	N.A.	N.A.	354.	12:44	3102.	54.
MEAN	1828.	N.A.	N.A.			3166.	
STANDARD DEVIATION	498.	N.A.	N.A.			41.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: TEMPE UNICH
TEMPE, ARIZONA

REPORT PERIOD: 79/ 5
SITE NUMBER: 34

LATITUDE: 33.26 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: MOUNTAIN
LONGITUDE: 111.50 DEG WEST PYRANGMETER 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 FR:MN	VALUE	TIME FR:MN	
1	71.	75.	66.	80.	13:20	56.	22:56	
2	66.	72.	60.	79.	15:46	50.	4:23	
3	70.	77.	62.	89.	16:26	50.	5:41	
4	77.	85.	69.	98.	16: 0	57.	5:56	
5	79.	88.	70.	101.	17:18	57.	4:53	
6	78.	84.	72.	92.	14:54	59.	4:30	
7	74.	79.	68.	84.	15: 2	58.	5:54	
8	65.	67.	63.	74.	15: 8	57.	5:48	
9	61.	66.	56.	72.	14:55	50.	23:37	
10	63.	72.	55.	81.	15:57	43.	4:40	
11	70.	77.	62.	90.	15:11	47.	5: 3	
12	75.	83.	62.	93.	15:16	57.	4:58	
13	*	*	*	*	*:*	*	*:*	
14	92.	98.	83.	107.	16:18	70.	23:46	
15	81.	89.	74.	100.	16:34	61.	5:49	
16	80.	89.	72.	101.	16:23	58.	4:55	
17	80.	87.	73.	102.	16:58	57.	5:20	
18	80.	87.	73.	99.	16:15	59.	5:35	
19	76.	85.	66.	96.	16: 0	61.	4:58	
20	66.	69.	63.	82.	15:28	53.	3:12	
21	74.	81.	68.	92.	17:36	56.	5:33	
22	82.	90.	75.	100.	16: 9	63.	5: 3	
23	84.	93.	76.	104.	14: 3	67.	5:42	
24	83.	90.	76.	97.	14:38	69.	5:52	
25	78.	84.	72.	97.	16:26	63.	22:23	
26	77.	86.	68.	97.	15:18	61.	5:35	
27	79.	85.	73.	98.	15:54	63.	5:31	
28	82.	90.	75.	100.	15:51	64.	5:35	
29	82.	89.	74.	99.	16:46	65.	4:44	
30	82.	91.	73.	100.	14:39	58.	4:55	
31	85.	92.	77.	103.	15:59	65.	4:25	
MEAN	76.	83.	69.					
STANDARD DEVIATION	7.3	8.2	6.6					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: TEMPE UNICN
TEMPE, ARIZONA

REPORT PERIOD: 79/ 5
SITE NUMBER: 34

LATITUDE: 33.26 DEG NORTH
LONGITUDE: 111.50 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 32 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 1117 FEET

INSOLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM	TOTAL	EXTRATERRESTRIAL	TTL INS
	INSOLATION BTU/FT2	INSOLATION BTU/FT2	INSOLATION BTU/FT2	INSOLATION VALUE ETU/HR/FT2	TIME HR:MM	INSOLATION ETU/FT2	EXT INS PERCENT
1	1129.	N.A.	N.A.	209.	13:14	3198.	35.
2	2309.	N.A.	N.A.	346.	13:27	3192.	72.
3	2136.	N.A.	N.A.	314.	13:14	3187.	67.
4	2294.	N.A.	N.A.	317.	12:36	3181.	72.
5	2295.	N.A.	N.A.	314.	12:16	3176.	72.
6	2354.	N.A.	N.A.	320.	12:24	3170.	74.
7	2265.	N.A.	N.A.	323.	12:22	3165.	72.
8	2198.	N.A.	N.A.	342.	12:18	3159.	70.
9	1739.	N.A.	N.A.	365.	12: 9	3154.	55.
10	2310.	N.A.	N.A.	314.	12:24	3148.	73.
11	2322.	N.A.	N.A.	320.	12:10	3143.	74.
12	2638.	N.A.	N.A.	320.	12:37	3137.	84.
13	*	N.A.	N.A.	*	*:*	3132.	*
14	2764.	N.A.	N.A.	308.	12:39	3127.	88.
15	2097.	N.A.	N.A.	327.	12:18	3122.	67.
16	2203.	N.A.	N.A.	304.	12:33	3116.	71.
17	1954.	N.A.	N.A.	327.	12:48	3111.	63.
18	2187.	N.A.	N.A.	298.	12:10	3106.	70.
19	2111.	N.A.	N.A.	298.	12:26	3098.	68.
20	1370.	N.A.	N.A.	327.	13:58	3093.	44.
21	2227.	N.A.	N.A.	298.	12:10	3089.	72.
22	2188.	N.A.	N.A.	295.	12: 4	3084.	71.
23	1898.	N.A.	N.A.	308.	12: 6	3079.	62.
24	1769.	N.A.	N.A.	327.	14: 1	3075.	58.
25	1951.	N.A.	N.A.	333.	12: 4	3070.	64.
26	2048.	N.A.	N.A.	308.	12:17	3066.	67.
27	2101.	N.A.	N.A.	298.	12:34	3062.	69.
28	2252.	N.A.	N.A.	298.	12: 7	3058.	74.
29	2223.	N.A.	N.A.	298.	12: 1	3054.	73.
30	2375.	N.A.	N.A.	301.	12:10	3050.	78.
31	2182.	N.A.	N.A.	295.	12: 4	3046.	72.
MEAN	2130.	N.A.	N.A.			3118.	
STANDARD DEVIATION	321.	N.A.	N.A.			47.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: WAVERLY HOMES
WEST MINSTER, COLORADO

REC'D PERIOD: 79/ 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		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME FR:MN	
1	15.	22.	9.	32.	10: 4	2.	5:48	65.
2	3.	2.	3.	10.	0:12	-3.	11:40	67.
3	3.	5.	1.	9.	11:34	-2.	5: 5	70.
4	18.	29.	9.	27.	14:40	-5.	3:17	70.
5	27.	35.	20.	42.	15:44	14.	4:27	72.
6	28.	41.	16.	46.	15: 1	9.	3:28	72.
7	12.	16.	8.	23.	9:31	5.	4: 1	69.
8	4.	6.	1.	10.	9:30	-2.	21:52	70.
9	-1.	0.	-3.	3.	12:16	-6.	22:52	68.
10	4.	9.	-2.	17.	14:46	-7.	5: 5	70.
11	14.	25.	4.	31.	9:52	-7.	3:12	70.
12	15.	25.	6.	30.	14:25	-2.	4:58	72.
13	21.	33.	11.	35.	10:20	-1.	3:40	68.
14	22.	30.	15.	37.	14:51	4.	4:22	72.
15	28.	37.	19.	45.	12:14	7.	4:40	70.
16	28.	39.	18.	46.	14:23	6.	5: 8	68.
17	28.	35.	17.	46.	14:39	10.	3:27	72.
18	45.	52.	39.	64.	15: 5	13.	3:29	73.
19	63.	72.	55.	77.	15: 9	52.	4: 4	71.
20	47.	45.	50.	54.	2:53	41.	9:11	66.
21	58.	65.	51.	74.	14:59	44.	5: 2	72.
22	59.	69.	51.	75.	13: 5	43.	4:26	73.
23	54.	57.	52.	61.	17: 5	46.	23:56	71.
24	61.	65.	54.	77.	14:59	45.	3:13	72.
25	60.	67.	53.	76.	13:14	48.	4:10	71.
26	65.	73.	58.	77.	15: 1	49.	5:14	69.
27	65.	76.	56.	63.	14:26	46.	4:21	71.
28	65.	74.	57.	65.	14:26	50.	4:29	72.
29	57.	65.	50.	72.	12:54	47.	4:22	*
30	42.	43.	41.	48.	0: 0	35.	21:56	71.
31	48.	54.	42.	61.	15:43	36.	0:21	74.
MEAN	34.	41.	28.					70.
STANDARD DEVIATION	22.5	23.7	22.2					2.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: WAVERLY HCMES
WEST MINSTER, CCLCRADC

REPORT PERIOD: 7/ 5
SITE NUMBER: 69

LATITUDE: 39.75 DEG NORTH
LONGITUDE: 105.00 DEG WEST

AZIMUTH: -1 DEG
PYRANOMETER TILT: 53 DEG

TIME ZONE: MOUNTAIN
ALTITUDE: 5220 FEET

INSCLATIGN

DAY	TOTAL INSOLATION ETU/FT2	TOTAL DIFF INSCLATIGN ETU/FT2	TOTAL DIR INSCLATIGN ETU/FT2	MAXIMUM INSCLATIGN VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1299.	N.A.	N.A.	260.	10:10	2784.	47.
2	507.	N.A.	N.A.	121.	15: 2	2772.	18.
3	683.	N.A.	N.A.	202.	11:18	2762.	25.
4	2165.	N.A.	N.A.	303.	11:55	2746.	79.
5	1509.	N.A.	N.A.	320.	11:44	2737.	55.
6	2080.	N.A.	N.A.	303.	13:36	2725.	76.
7	873.	N.A.	N.A.	237.	9:31	2715.	32.
8	253.	N.A.	N.A.	40.	14:34	2704.	9.
9	502.	N.A.	N.A.	118.	11:30	2692.	19.
10	1487.	N.A.	N.A.	358.	11:18	2680.	55.
11	2007.	N.A.	N.A.	309.	12:53	2671.	75.
12	2000.	N.A.	N.A.	317.	11:12	2660.	75.
13	1936.	N.A.	N.A.	317.	12:12	2652.	73.
14	1902.	N.A.	N.A.	274.	11:34	2641.	72.
15	1485.	N.A.	N.A.	309.	11:20	2630.	56.
16	1797.	N.A.	N.A.	283.	11:32	2620.	69.
17	1802.	N.A.	N.A.	312.	11:53	2610.	69.
18	1497.	N.A.	N.A.	306.	11:50	2602.	58.
19	1704.	N.A.	N.A.	268.	11:19	2592.	66.
20	389.	N.A.	N.A.	110.	11:19	2583.	15.
21	1500.	N.A.	N.A.	257.	11:42	2573.	58.
22	1491.	N.A.	N.A.	271.	12:42	2564.	58.
23	635.	N.A.	N.A.	138.	8:12	2558.	25.
24	1733.	N.A.	N.A.	271.	11:47	2549.	68.
25	1216.	N.A.	N.A.	228.	12:31	2541.	48.
26	1798.	N.A.	N.A.	257.	11:27	2535.	71.
27	1714.	N.A.	N.A.	251.	11:49	2527.	68.
28	1213.	N.A.	N.A.	277.	12:50	2520.	48.
29	1003.	N.A.	N.A.	274.	10:24	2512.	40.
30	345.	N.A.	N.A.	95.	9:35	2505.	14.
31	1269.	N.A.	N.A.	294.	10:45	2499.	51.
MEAN	1348.	N.A.	N.A.			2628.	
STANDARD DEVIATION	570.	N.A.	N.A.			87.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ARATEX
FRESNO, CALIFORNIA

REPORT PERIOD: 79/ 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

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.	55.	74.	14:44	49.	5:35	
2	65.	71.	58.	82.	15:56	50.	4:46	
3	72.	81.	62.	90.	15:29	55.	4:22	
4	70.	78.	61.	91.	16: 5	51.	5: 9	
5	66.	73.	58.	84.	15:19	52.	5:20	
6	61.	67.	55.	76.	14:58	50.	4:39	
7	57.	61.	54.	69.	15: 0	48.	23:54	
8	57.	62.	52.	68.	15:45	46.	2:28	
9	62.	69.	55.	77.	15:30	43.	4:55	
10	68.	77.	59.	86.	15:45	45.	4: 5	
11	73.	82.	63.	92.	16: 3	49.	4:56	
12	78.	89.	67.	100.	15:13	55.	4:25	
13	81.	92.	69.	102.	14:41	57.	4:22	
14	83.	94.	71.	106.	16: 6	59.	5: 5	
15	79.	88.	69.	98.	15:46	60.	5: 0	
16	72.	79.	65.	90.	14:20	52.	4:55	
17	78.	87.	70.	96.	15:37	57.	4:25	
18	83.	92.	74.	101.	15:10	62.	4:57	
19	81.	90.	72.	99.	15:38	62.	4:52	
20	77.	85.	68.	99.	14:18	59.	4:48	
21	72.	78.	65.	89.	15:30	57.	4:56	
22	73.	78.	66.	90.	15:40	56.	4:50	
23	77.	84.	70.	94.	14:45	63.	4:53	
24	77.	83.	71.	94.	16:20	60.	4:58	
25	82.	90.	74.	102.	14:46	61.	3:42	
26	85.	94.	75.	104.	15: 4	65.	4:35	
27	76.	85.	67.	94.	15:37	60.	23:58	
28	71.	76.	64.	85.	15:10	53.	3:37	
29	71.	77.	65.	89.	15: 0	54.	4:52	
30	76.	85.	67.	95.	14:29	54.	4:32	
31	81.	90.	71.	100.	15:14	58.	3:57	
MEAN	73.	81.	65.					
STANDARD DEVIATION	7.8	9.3	6.5					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ARATEX
FRESNO, CALIFORNIA

REPORT PERIOD: 79/ 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

INSCLATIGN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSCLATIGN BTU/FT2	MAXIMUM INSCLATIGN VALUE BTU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATIGN BTU/FT2	TTL INS EXT INS PERCENT
1	2092.	N.A.	N.A.	335.	12:15	3307.	63.
2	1647.	N.A.	N.A.	344.	11:58	3304.	50.
3	2141.	N.A.	N.A.	303.	11:18	3302.	65.
4	2057.	N.A.	N.A.	306.	11:44	3299.	62.
5	2106.	N.A.	N.A.	329.	11:51	3294.	64.
6	2292.	N.A.	N.A.	319.	11:51	3291.	70.
7	1169.	N.A.	N.A.	370.	11:16	3288.	36.
8	2159.	N.A.	N.A.	360.	11:59	3285.	66.
9	2276.	N.A.	N.A.	329.	11:41	3280.	69.
10	2268.	N.A.	N.A.	310.	11:22	3277.	69.
11	2261.	N.A.	N.A.	306.	11:20	3274.	68.
12	2188.	N.A.	N.A.	303.	11:13	3271.	67.
13	2247.	N.A.	N.A.	306.	11:18	3268.	69.
14	2214.	N.A.	N.A.	303.	11:39	3265.	68.
15	2173.	N.A.	N.A.	306.	11:46	3262.	67.
16	2131.	N.A.	N.A.	291.	11:24	3260.	65.
17	2144.	N.A.	N.A.	294.	11:26	3257.	66.
18	2119.	N.A.	N.A.	287.	11:32	3251.	65.
19	2115.	N.A.	N.A.	287.	11:38	3248.	65.
20	2144.	N.A.	N.A.	291.	11:46	3245.	66.
21	2105.	N.A.	N.A.	284.	11:20	3242.	65.
22	1932.	N.A.	N.A.	306.	11:14	3240.	60.
23	2016.	N.A.	N.A.	313.	12:21	3237.	62.
24	2199.	N.A.	N.A.	297.	11:10	3234.	68.
25	2144.	N.A.	N.A.	294.	11:36	3231.	66.
26	2164.	N.A.	N.A.	291.	11:31	3229.	67.
27	2108.	N.A.	N.A.	341.	11:31	3226.	65.
28	2186.	N.A.	N.A.	300.	11:37	3224.	68.
29	2263.	N.A.	N.A.	310.	11:53	3218.	70.
30	2205.	N.A.	N.A.	300.	11:28	3216.	69.
31	2160.	N.A.	N.A.	254.	11:46	3214.	67.
MEAN	2110.	N.A.	N.A.			3259.	
STANDARD DEVIATION	212.	N.A.	N.A.			29.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: ARATEX
FRESNO, CALIFORNIA

REPORT PERIOD: 79/ 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	287.	8.	285.	5.	17.	273.	18:23
2	*	1.	*	1.	8.	*	14:48
3	292.	3.	297.	3.	15.	279.	22:14
4	295.	4.	***	3.	14.	277.	22: 8
5	287.	7.	285.	5.	22.	315.	17:59
6	288.	8.	281.	5.	18.	293.	8:12
7	302.	4.	295.	5.	18.	295.	16:47
8	287.	10.	288.	12.	24.	274.	15:11
9	295.	4.	305.	3.	17.	295.	18:15
10	*	2.	*	3.	9.	*	14:50
11	*	2.	*	3.	11.	*	13:34
12	*	2.	*	3.	12.	*	13:37
13	276.	2.	***	4.	10.	238.	16:28
14	*	2.	*	2.	12.	*	21:10
15	268.	3.	145.	2.	16.	284.	19:19
16	284.	4.	275.	3.	14.	258.	16:44
17	279.	3.	275.	3.	12.	249.	14:33
18	283.	3.	276.	3.	13.	281.	17:40
19	275.	4.	265.	3.	14.	257.	17: 9
20	283.	4.	265.	2.	16.	290.	22:18
21	284.	6.	277.	4.	16.	261.	1:44
22	281.	5.	277.	5.	15.	288.	0:34
23	285.	5.	285.	3.	18.	286.	22:13
24	281.	5.	272.	4.	16.	293.	0:58
25	268.	2.	174.	2.	12.	289.	23:20
26	276.	4.	267.	4.	14.	249.	19:36
27	280.	5.	271.	4.	14.	255.	17:55
28	283.	5.	277.	5.	15.	271.	16:46
29	279.	4.	276.	3.	13.	305.	0:36
30	270.	2.	261.	3.	11.	259.	18:29
31	*	1.	*	2.	12.	*	14:31
MEAN	283.	4.	270.	4.			
STANDARD DEVIATION	8.2	2.2	36.3	2.3			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: ARATEX
FRESNO, CALIFORNIA

REPORT PERIOD: 79/ 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

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	14	5	1	0	0	0	0	0
2	24	0	0	0	0	0	0	0	0
3	13	7	4	0	0	0	0	0	0
4	12	8	4	0	0	0	0	0	0
5	6	8	5	0	0	0	0	0	0
6	0	13	11	0	0	0	0	0	0
7	12	11	1	0	0	0	0	0	0
8	3	7	8	6	0	0	0	0	0
9	15	5	4	0	0	0	0	0	0
10	20	4	0	0	0	0	0	0	0
11	22	2	0	0	0	0	0	0	0
12	21	3	0	0	0	0	0	0	0
13	18	6	0	0	0	0	0	0	0
14	21	3	0	0	0	0	0	0	0
15	15	6	2	0	0	0	0	0	0
16	10	13	1	0	0	0	0	0	0
17	19	5	0	0	0	0	0	0	0
18	16	7	1	0	0	0	0	0	0
19	11	12	1	0	0	0	0	0	0
20	13	6	5	0	0	0	0	0	0
21	8	10	6	0	0	0	0	0	0
22	6	17	0	0	0	0	0	0	1
23	12	6	6	0	0	0	0	0	0
24	5	13	2	0	0	0	0	0	0
25	20	4	0	0	0	0	0	0	0
26	11	10	3	0	0	0	0	0	0
27	8	11	5	0	0	0	0	0	0
28	5	11	4	0	0	0	0	0	0
29	16	6	2	0	0	0	0	0	0
30	21	3	0	0	0	0	0	0	0
31	22	1	0	0	0	0	0	0	1
AVERAGE	13.3	7.5	2.7	0.4	0.0	0.0	0.0	0.0	0.1
TOTAL	413	232	85	12	0	0	0	0	2

ZONE 9

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: FACILITIES DEVELOPMENT
SAN DIEGO, CALIFORNIA

REPORT PERIOD: 79/ 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

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.	63.	58.	66.	13:45	56.	5:13	66.
2	60.	62.	58.	66.	14:41	55.	4:54	66.
3	61.	64.	58.	68.	11:54	54.	1:19	66.
4	61.	63.	59.	66.	12:27	57.	0: 1	66.
5	60.	62.	58.	66.	11:55	57.	6: 9	67.
6	61.	63.	59.	66.	13:42	58.	4:22	67.
7	61.	63.	59.	65.	13: 1	57.	5:38	67.
8	58.	60.	57.	62.	13:14	54.	23:47	67.
9	58.	63.	54.	66.	13:34	51.	23:46	67.
10	60.	67.	54.	73.	15:57	46.	3:46	67.
11	66.	74.	59.	82.	14:19	51.	3:39	67.
12	70.	78.	63.	88.	16: 3	52.	5:15	68.
13	75.	86.	64.	96.	13:29	55.	5: 7	69.
14	65.	71.	60.	79.	11: 5	56.	4:24	69.
15	62.	65.	60.	68.	10:26	59.	1:38	68.
16	61.	64.	59.	68.	12:41	58.	20: 4	69.
17	61.	63.	59.	66.	12:37	56.	23:59	69.
18	62.	66.	58.	68.	8: 5	53.	2:39	69.
19	61.	62.	60.	64.	14: 4	59.	23:14	69.
20	61.	63.	60.	67.	15: 4	58.	6: 0	69.
21	64.	67.	61.	69.	14: 0	59.	23:59	69.
22	64.	67.	61.	70.	14:45	58.	0:21	69.
23	64.	67.	61.	73.	9:42	58.	1:37	69.
24	62.	64.	61.	67.	12:40	60.	23:36	70.
25	64.	67.	61.	70.	10:21	59.	22:43	70.
26	63.	66.	61.	69.	14:16	57.	3: 4	70.
27	63.	65.	62.	69.	11:41	61.	4:56	70.
28	64.	66.	62.	69.	12:58	61.	23:45	70.
29	63.	65.	60.	69.	10:25	59.	20:59	70.
30	63.	65.	61.	69.	13:22	60.	0: 8	70.
31	63.	63.	62.	65.	15:33	61.	9: 8	70.
MEAN	63.	66.	60.					68.
STANDARD DEVIATION	3.3	5.2	2.2					1.4

SITE: FACILITIES DEVELOPMENT
SAN DIEGO, CALIFORNIA

REPORT PERIOD: 79/ 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	TOTAL DIFF	TOTAL DIR	MAXIMUM	TOTAL	EXTRATERRESTRIAL	TTL INS
	INSOLATION	INSOLATION	INSOLATION	INSOLATION	INSOLATION	INSOLATION	INSOLATION
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	TIME	BTU/FT2	EXT INS
				BTU/HR/FT2	HR:MN		PERCENT
1	961.	N.A.	N.A.	298.	12:30	2915.	33.
2	1273.	N.A.	N.A.	304.	12:17	2904.	44.
3	1243.	N.A.	N.A.	310.	11:22	2896.	43.
4	1134.	N.A.	N.A.	292.	11:23	2885.	39.
5	913.	N.A.	N.A.	286.	11:55	2874.	32.
6	1385.	N.A.	N.A.	316.	10:40	2864.	48.
7	1610.	N.A.	N.A.	316.	10:31	2854.	56.
8	1015.	N.A.	N.A.	271.	12:44	2846.	36.
9	1769.	N.A.	N.A.	295.	11:26	2836.	62.
10	1925.	N.A.	N.A.	280.	10:47	2826.	68.
11	1908.	N.A.	N.A.	271.	10:19	2816.	68.
12	1853.	N.A.	N.A.	277.	10:56	2806.	67.
13	1914.	N.A.	N.A.	274.	10:22	2797.	68.
14	1856.	N.A.	N.A.	268.	10:37	2787.	67.
15	1669.	N.A.	N.A.	268.	10:31	2781.	60.
16	1079.	N.A.	N.A.	283.	12:31	2771.	39.
17	1169.	N.A.	N.A.	280.	10:29	2763.	42.
18	1746.	N.A.	N.A.	289.	10:45	2756.	63.
19	316.	N.A.	N.A.	177.	11:30	2748.	11.
20	560.	N.A.	N.A.	138.	14:32	2739.	20.
21	1510.	N.A.	N.A.	277.	10:11	2731.	55.
22	1693.	N.A.	N.A.	280.	9:51	2723.	62.
23	1594.	N.A.	N.A.	268.	11:13	2715.	59.
24	734.	N.A.	N.A.	223.	13:23	2708.	27.
25	1466.	N.A.	N.A.	274.	10:16	2700.	54.
26	1698.	N.A.	N.A.	256.	11:20	2696.	63.
27	634.	N.A.	N.A.	198.	11:25	2689.	24.
28	942.	N.A.	N.A.	174.	12:26	2682.	35.
29	1343.	N.A.	N.A.	286.	10:14	2675.	50.
30	844.	N.A.	N.A.	241.	12:40	2669.	32.
31	467.	N.A.	N.A.	50.	12:41	2663.	18.
MEAN	1299.	N.A.	N.A.			2778.	
STANDARD DEVIATION	472.	N.A.	N.A.			77.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: IRVINE SCHCL
IRVINE, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 16

LATITUDE: 33.73 DEG NORTH
LONGITUDE: 117.78 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 25 DEG

TIME ZONE: PACIFIC
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	63.	67.	58.	77.	11:44	56.	5: 9	N.A.
2	63.	69.	57.	77.	10: 6	55.	22: 0	N.A.
3	64.	70.	58.	79.	13:14	53.	23:59	N.A.
4	65.	70.	59.	81.	11:36	53.	0:40	N.A.
5	64.	68.	59.	77.	12: 8	56.	21:13	N.A.
6	62.	67.	58.	75.	13:23	55.	23:15	N.A.
7	61.	65.	57.	71.	9:28	54.	1: 6	N.A.
8	61.	66.	55.	72.	14:34	51.	23:54	N.A.
9	62.	70.	53.	76.	10:29	47.	4:48	N.A.
10	66.	76.	55.	83.	15:35	46.	4:28	N.A.
11	72.	85.	58.	91.	9:37	49.	4: 1	N.A.
12	78.	93.	63.	102.	13: 0	52.	4:17	N.A.
13	82.	97.	67.	106.	11:35	56.	4:39	N.A.
14	71.	82.	60.	91.	8:44	58.	4:28	N.A.
15	66.	72.	60.	81.	9:48	59.	4: 2	N.A.
16	64.	68.	59.	77.	12: 7	57.	21: 6	N.A.
17	65.	69.	59.	78.	11:45	57.	23:34	N.A.
18	65.	72.	58.	79.	9:42	54.	4:33	N.A.
19	63.	68.	58.	79.	11: 2	53.	2:36	N.A.
20	64.	68.	61.	72.	10:36	58.	1:48	N.A.
21	67.	72.	61.	79.	14: 5	55.	23:41	N.A.
22	69.	79.	58.	86.	13:56	51.	3:43	N.A.
23	70.	78.	62.	86.	10:48	59.	2:37	N.A.
24	67.	71.	62.	83.	14:19	61.	0: 8	N.A.
25	68.	73.	61.	82.	11:49	60.	23:12	N.A.
26	68.	73.	63.	83.	12:16	59.	1: 4	N.A.
27	64.	66.	62.	70.	14:52	60.	2:18	N.A.
28	66.	69.	63.	73.	9:21	62.	4:12	N.A.
29	65.	70.	60.	76.	14:31	54.	23:35	N.A.
30	66.	71.	60.	81.	12:35	52.	0:56	N.A.
31	67.	71.	63.	78.	14:18	60.	4:26	N.A.
MEAN	66.	73.	60.					N.A.
STANDARD DEVIATION	4.7	7.5	2.9					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: IRVINE SCHCCL
IRVINE, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 16

LATITUDE: 33.73 DEG NORTH
LONGITUDE: 117.78 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 25 DEG

TIME ZONE: PACIFIC
ALTITUDE: 200 FEET

INSCLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1528.	802.	726.	354.	12:10	3338.	46.
2	1787.	904.	883.	351.	10: 6	3337.	54.
3	1689.	695.	994.	333.	11:38	3333.	51.
4	1864.	778.	1086.	309.	11: 4	3331.	56.
5	1470.	905.	565.	337.	11:41	3329.	44.
6	1123.	657.	466.	337.	13:23	3328.	34.
7	1401.	862.	539.	412.	12: 2	3326.	42.
8	2133.	490.	1643.	330.	10:35	3324.	64.
9	2410.	349.	2061.	330.	11:54	3319.	73.
10	2393.	346.	2046.	323.	11:40	3318.	72.
11	2345.	356.	1989.	316.	11:35	3316.	71.
12	2394.	377.	2016.	330.	11:51	3311.	72.
13	2435.	363.	2073.	326.	11:29	3309.	74.
14	2358.	385.	2013.	319.	11:35	3307.	73.
15	2269.	528.	1741.	316.	11:35	3305.	69.
16	1245.	792.	453.	323.	12:44	3303.	38.
17	1766.	638.	1128.	337.	10:35	3301.	54.
18	1897.	933.	964.	316.	11:29	3299.	58.
19	1118.	761.	357.	316.	11: 8	3294.	34.
20	571.	488.	83.	153.	10:42	3291.	17.
21	1176.	794.	383.	209.	14:32	3289.	36.
22	2240.	617.	1623.	319.	11:32	3287.	68.
23	2161.	615.	1546.	337.	11:31	3285.	66.
24	1317.	541.	777.	312.	12:38	3283.	40.
25	1910.	635.	1275.	302.	11:54	3281.	58.
26	1776.	799.	977.	323.	10:40	3279.	54.
27	367.	319.	47.	57.	12:55	3277.	11.
28	664.	576.	88.	135.	9:16	3272.	20.
29	1001.	874.	127.	163.	14:42	3271.	31.
30	1662.	774.	828.	316.	12:30	3269.	49.
31	1058.	842.	216.	238.	14:18	3267.	32.

MEAN	1662.	639.	1023.			3303.	
STANDARD DEVIATION	592.	197.	684.			22.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: LAKE VALLEY
LAKE PARADISE, CALIFORNIA

REPORT PERIOD: 7/ 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	40.	49.	33.	57.	15:37	24.	5:24	
2	48.	56.	40.	67.	16:20	32.	0: 4	
3	49.	62.	37.	73.	15:11	28.	4:31	
4	49.	61.	39.	70.	11:51	32.	1:16	
5	48.	51.	46.	55.	7:35	40.	11: 3	
6	*	*	*	*	*:*	*	*:*	
7	*	*	*	*	*:*	*	*:*	
8	*	*	*	*	*:*	*	*:*	
9	*	*	*	*	*:*	*	*:*	
10	*	*	*	*	*:*	*	*:*	
11	*	*	*	*	*:*	*	*:*	
12	*	*	*	*	*:*	*	*:*	
13	*	*	*	*	*:*	*	*:*	
14	*	*	*	*	*:*	*	*:*	
15	*	*	*	*	*:*	*	*:*	
16	*	*	*	*	*:*	*	*:*	
17	66.	68.	50.	77.	16:49	38.	23:51	
18	55.	71.	42.	60.	15: 3	32.	4:39	
19	56.	72.	42.	60.	15:51	32.	4:55	
20	57.	73.	43.	65.	15:40	30.	5:16	
21	58.	73.	46.	63.	14:30	26.	4:44	
22	54.	66.	42.	76.	12:55	33.	5:16	
23	53.	64.	43.	73.	13:39	34.	4:29	
24	54.	66.	44.	75.	16:31	29.	4:29	
25	59.	70.	46.	77.	15:38	36.	5:19	
26	60.	75.	47.	64.	13:40	36.	4:36	
27	56.	71.	44.	77.	11:33	35.	4:26	
28	53.	64.	42.	69.	14: 6	33.	2: 5	
29	49.	55.	43.	67.	16:48	34.	5:20	
30	49.	60.	39.	70.	15:23	24.	4:32	
31	53.	65.	44.	74.	15:20	31.	4:51	
MEAN	53.	65.	43.					
STANDARD DEVIATION	5.7	7.4	4.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: LAKE VALLEY
TAHCE PARADISE, CALIFORNIA

REPORT PERIOD: 79/ 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

INSCLATICN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATICN BTU/FT2	TOTAL DIR INSCLATICN BTU/FT2	MAXIMUM TOTAL INSCLATICN VALUE ETU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1011.	N.A.	N.A.	265.	9:56	2670.	38.
2	1631.	N.A.	N.A.	325.	11:43	2656.	61.
3	1863.	N.A.	N.A.	295.	11:38	2645.	70.
4	1598.	N.A.	N.A.	309.	11:46	2631.	61.
5	*	N.A.	N.A.	*	*:*	2620.	*
6	*	N.A.	N.A.	*	*:*	2607.	*
7	*	N.A.	N.A.	*	*:*	2593.	*
8	*	N.A.	N.A.	*	*:*	2583.	*
9	*	N.A.	N.A.	*	*:*	2570.	*
10	*	N.A.	N.A.	*	*:*	2557.	*
11	*	N.A.	N.A.	*	*:*	2547.	*
12	*	N.A.	N.A.	*	*:*	2535.	*
13	*	N.A.	N.A.	*	*:*	2525.	*
14	*	N.A.	N.A.	*	*:*	2514.	*
15	*	N.A.	N.A.	*	*:*	2502.	*
16	*	N.A.	N.A.	*	*:*	2490.	*
17	3149.	N.A.	N.A.	285.	12: 3	2482.	127.
18	1900.	N.A.	N.A.	285.	11:29	2471.	77.
19	1916.	N.A.	N.A.	265.	11:40	2460.	78.
20	1919.	N.A.	N.A.	285.	11:40	2450.	78.
21	1792.	N.A.	N.A.	262.	12:38	2442.	73.
22	1455.	N.A.	N.A.	289.	11:46	2432.	60.
23	1213.	N.A.	N.A.	338.	12:40	2425.	50.
24	2018.	N.A.	N.A.	275.	11:32	2415.	84.
25	1830.	N.A.	N.A.	272.	11:38	2406.	76.
26	1828.	N.A.	N.A.	275.	12:20	2397.	76.
27	1368.	N.A.	N.A.	282.	11:12	2389.	57.
28	1763.	N.A.	N.A.	272.	11:26	2383.	74.
29	1889.	N.A.	N.A.	282.	11:33	2375.	80.
30	1899.	N.A.	N.A.	282.	11:55	2367.	80.
31	1846.	N.A.	N.A.	275.	11:31	2360.	78.
MEAN	1784.	N.A.	N.A.			2500.	
STANDARD DEVIATION	426.	N.A.	N.A.			95.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: LAKE VALLEY
TAFCE PARADISE, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 11

LATITUDE: 36.57 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	MAXIMUM WIND DIRECTION	TIME HR:MN
1	*	0.	*	1.	12.	*	11:21
2	*	1.	*	1.	10.	*	13:46
3	*	0.	*	0.	3.	*	11:27
4	*	0.	*	0.	0.	*	14:47
5	*	2.	*	2.	20.	*	9: 0
6	*	*	*	*	*	*	*:*
7	*	*	*	*	*	*	*:*
8	*	*	*	*	*	*	*:*
9	*	*	*	*	*	*	*:*
10	*	*	*	*	*	*	*:*
11	*	*	*	*	*	*	*:*
12	*	*	*	*	*	*	*:*
13	*	*	*	*	*	*	*:*
14	*	*	*	*	*	*	*:*
15	*	*	*	*	*	*	*:*
16	*	*	*	*	*	*	*:*
17	*	0.	*	0.	0.	*	12: 7
18	*	0.	*	0.	0.	*	1:27
19	*	0.	*	0.	0.	*	1: 5
20	*	0.	*	0.	0.	*	2:20
21	*	*	*	*	*	*	*:*
22	*	*	*	*	*	*	*:*
23	*	*	*	*	*	*	*:*
24	*	*	*	*	*	*	*:*
25	*	*	*	*	*	*	*:*
26	*	*	*	*	*	*	*:*
27	*	*	*	*	*	*	*:*
28	*	*	*	*	*	*	*:*
29	*	1.	*	2.	21.	*	10: 8
30	*	1.	*	3.	19.	*	10:24
31	*	1.	*	1.	16.	*	8:56
MEAN	0.	0.	0.	1.			
STANDARD DEVIATION	*****	0.6	*****	1.0			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: LAKE VALLEY
TAHOE PARADISE, CALIFORNIA

REPORT PERIOD: 79/ 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

CAY	0-3 MPH	4-7 MPH	8-12 MPH	13-16 MPH	19-24 MPH	25-31 MPH	32-36 MPH	ABOVE 38	MISSING HOURS
1	23	1	0	0	0	0	0	0	0
2	22	2	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	10	1	0	0	0	0	0	0	13
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	0	0	0	0	0	0	0	24
10	0	0	0	0	0	0	0	0	24
11	0	0	0	0	0	0	0	0	24
12	0	0	0	0	0	0	0	0	24
13	0	0	0	0	0	0	0	0	24
14	0	0	0	0	0	0	0	0	24
15	0	0	0	0	0	0	0	0	24
16	0	0	0	0	0	0	0	0	24
17	12	0	0	0	0	0	0	0	12
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	23	0	0	0	0	0	0	0	1
25	24	0	0	0	0	0	0	0	0
26	24	0	0	0	0	0	0	0	0
27	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	21	3	0	0	0	0	0	0	0
30	20	4	0	0	0	0	0	0	0
31	21	2	0	0	0	0	0	0	1
AVERAGE	14.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	5.4
TOTAL	440	13	0	0	0	0	0	0	291

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 159

LATITUDE: 38.38 DEG NORTH
LONGITUDE: 121.35 DEG WEST

AZIMUTH: 0 DEG
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	TIME HR:MM	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	930.	N.A.	N.A.	271.	12:24	2469.	38.
2	1419.	N.A.	N.A.	227.	11:47	2455.	58.
3	1415.	N.A.	N.A.	227.	11:52	2442.	58.
4	1086.	N.A.	N.A.	220.	10:50	2426.	45.
5	568.	N.A.	N.A.	233.	12:21	2410.	24.
6	811.	N.A.	N.A.	242.	13:19	2398.	34.
7	1039.	N.A.	N.A.	258.	11:33	2382.	44.
8	1394.	N.A.	N.A.	233.	12:28	2370.	59.
9	1395.	N.A.	N.A.	227.	12: 3	2358.	59.
10	1385.	N.A.	N.A.	223.	12: 0	2343.	59.
11	1333.	N.A.	N.A.	217.	11:50	2329.	57.
12	1311.	N.A.	N.A.	214.	12: 6	2318.	57.
13	1300.	N.A.	N.A.	211.	11:57	2304.	56.
14	1267.	N.A.	N.A.	208.	11:55	2291.	55.
15	1304.	N.A.	N.A.	208.	11:45	2280.	57.
16	1223.	N.A.	N.A.	208.	11:46	2269.	54.
17	1228.	N.A.	N.A.	201.	11:54	2257.	54.
18	1230.	N.A.	N.A.	205.	12: 3	2245.	55.
19	1188.	N.A.	N.A.	198.	11:52	2235.	53.
20	1184.	N.A.	N.A.	195.	12: 2	2223.	53.
21	1201.	N.A.	N.A.	195.	11:48	2212.	54.
22	1004.	N.A.	N.A.	205.	11:12	2203.	46.
23	1027.	N.A.	N.A.	211.	12: 5	2192.	47.
24	1149.	N.A.	N.A.	198.	11:58	2184.	53.
25	1171.	N.A.	N.A.	195.	12: 1	2174.	54.
26	1134.	N.A.	N.A.	186.	11:40	2164.	52.
27	1091.	N.A.	N.A.	214.	13:28	2157.	51.
28	1152.	N.A.	N.A.	208.	11:26	2148.	54.
29	1345.	N.A.	N.A.	195.	11:48	2138.	63.
30	1212.	N.A.	N.A.	198.	12: 9	2130.	57.
31	1161.	N.A.	N.A.	192.	12: 6	2124.	55.
MEAN	1182.	N.A.	N.A.			2278.	
STANDARD DEVIATION	185.	N.A.	N.A.			106.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIAREPORT PERIOD: 79/ 5
SITE NUMBER: 159LATITUDE: 38.38 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: PACIFIC
LONGITUDE: 121.35 DEG WEST PYRANOMETEP 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	226.	5.	195.	7.	13.	195.	10:26
2	244.	8.	215.	11.	22.	237.	9:18
3	357.	11.	357.	13.	17.	337.	6:48
4	346.	6.	339.	6.	15.	12.	15:38
5	342.	13.	337.	16.	26.	338.	12:26
6	342.	10.	335.	12.	22.	315.	16:10
7	311.	9.	313.	11.	18.	307.	15: 6
8	220.	7.	204.	9.	17.	250.	18:31
9	219.	11.	211.	15.	21.	212.	8:29
10	216.	7.	208.	10.	16.	208.	8:16
11	205.	4.	201.	6.	11.	249.	10:35
12	215.	3.	192.	4.	9.	194.	14:24
13	253.	3.	238.	4.	9.	329.	15:52
14	314.	4.	***	5.	10.	342.	16:43
15	351.	12.	353.	13.	19.	9.	17: 5
16	327.	4.	312.	4.	11.	341.	0: 1
17	204.	5.	194.	9.	18.	212.	9: 9
18	211.	8.	205.	13.	20.	211.	10:16
19	359.	6.	52.	4.	15.	356.	15:51
20	316.	7.	318.	8.	15.	290.	16:55
21	313.	7.	306.	7.	13.	322.	14:18
22	323.	3.	312.	2.	8.	327.	20:11
23	349.	4.	331.	3.	15.	324.	17:41
24	211.	8.	207.	15.	20.	212.	9:19
25	215.	9.	204.	11.	18.	211.	9:11
26	350.	5.	349.	4.	11.	350.	23:19
27	313.	6.	239.	6.	13.	357.	16:40
28	209.	11.	200.	15.	26.	216.	23:31
29	215.	17.	208.	20.	29.	209.	0: 9
30	211.	16.	210.	20.	25.	209.	12:57
31	209.	11.	204.	14.	21.	219.	7:23
MEAN	263.	8.	237.	10.			
STANDARD DEVIATION	62.2	3.7	74.0	5.1			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 159

LATITUDE: 38.38 DEG NORTH
LONGITUDE: 121.35 DEG WEST

AZIMUTH: 0 DEG
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	69.	57.	79.	95.	6:16	32.	17: 1
2	53.	30.	73.	96.	5:34	15.	15:58
3	65.	52.	77.	93.	5:23	40.	15:41
4	56.	39.	72.	94.	5: 9	16.	12:21
5	65.	59.	71.	85.	2:39	28.	16:10
6	69.	47.	89.	100.	20:47	30.	13:56
7	66.	56.	76.	92.	1:35	32.	11:49
8	50.	30.	68.	92.	4:33	13.	14:36
9	38.	22.	51.	75.	3:31	8.	17:28
10	31.	17.	43.	61.	5: 9	2.	16:42
11	40.	24.	53.	85.	5:36	8.	17: 4
12	40.	24.	52.	81.	5:36	0.	17:38
13	36.	21.	49.	90.	5:22	3.	15:46
14	38.	23.	51.	83.	5:21	6.	14: 9
15	57.	41.	70.	85.	23:45	27.	14: 9
16	59.	44.	72.	100.	5:44	11.	14:16
17	43.	27.	57.	90.	5:14	4.	16:58
18	36.	15.	53.	87.	5:23	2.	15:10
19	48.	31.	63.	82.	5: 2	14.	15:19
20	57.	43.	69.	90.	4:55	31.	15:25
21	52.	37.	65.	76.	4:42	28.	13:24
22	47.	32.	60.	80.	3:44	16.	16:32
23	45.	27.	60.	80.	5:14	11.	16:10
24	39.	19.	54.	88.	5:46	2.	14:11
25	20.	10.	29.	44.	2:25	0.	13:43
26	36.	22.	48.	70.	5: 5	12.	15:40
27	41.	28.	52.	74.	5:27	12.	14:59
28	25.	11.	37.	79.	3:58	3.	17:44
29	13.	6.	17.	24.	20:52	2.	14: 7
30	11.	5.	17.	24.	23:48	0.	12:57
31	12.	4.	19.	30.	23:45	0.	13:31

MEAN 44. 29. 56.

STANDARD DEVIATION 16. 15. 18.

ENVIRONMENTAL SUMMARY REPORT

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SITE: LIVING SYSTEMS
DAVIS, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 159

LATITUDE: 38.38 DEG NORTH
LONGITUDE: 121.35 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 60 DEG

TIME ZONE: PACIFIC
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	10	9	5	0	0	0	0	0	0
2	5	7	7	3	2	0	0	0	0
3	0	4	11	9	0	0	0	0	0
4	4	13	7	0	0	0	0	0	0
5	0	2	10	10	2	0	0	0	0
6	2	9	6	7	0	0	0	0	0
7	4	6	12	2	0	0	0	0	0
8	7	5	11	1	0	0	0	0	0
9	1	9	5	9	0	0	0	0	0
10	8	6	8	2	0	0	0	0	0
11	13	9	2	0	0	0	0	0	0
12	17	7	0	0	0	0	0	0	0
13	15	9	0	0	0	0	0	0	0
14	10	12	2	0	0	0	0	0	0
15	0	1	16	7	0	0	0	0	0
16	15	8	1	0	0	0	0	0	0
17	12	4	7	1	0	0	0	0	0
18	8	3	7	6	0	0	0	0	0
19	13	4	7	0	0	0	0	0	0
20	4	9	10	1	0	0	0	0	0
21	2	14	8	0	0	0	0	0	0
22	19	5	0	0	0	0	0	0	0
23	15	6	3	0	0	0	0	0	0
24	6	6	2	10	0	0	0	0	0
25	4	6	9	5	0	0	0	0	0
26	10	8	6	0	0	0	0	0	0
27	6	11	7	0	0	0	0	0	0
28	3	2	10	7	1	1	0	0	0
29	0	4	3	3	12	1	0	0	1
30	0	2	6	7	9	0	0	0	0
31	5	1	8	9	0	0	0	0	1
AVERAGE	7.0	6.5	6.3	3.2	0.8	0.1	0.0	0.0	0.1
TOTAL	218	201	196	99	26	2	0	0	2

ZONE 10

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: MONTECITO PINES
SANTA ROSA, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 164

LATITUDE: 37.61 DEG NORTH AZIMUTH: 22 DEG TIME ZONE: PACIFIC
LONGITUDE: 122.38 DFG 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	57.	61.	52.	71.	11:40	43.	5:16	65.
2	58.	66.	50.	74.	11:24	43.	5:11	66.
3	53.	56.	49.	65.	15:35	43.	23:29	66.
4	54.	59.	48.	68.	11:58	38.	4:56	66.
5	54.	56.	52.	64.	14:11	46.	23:36	65.
6	50.	52.	48.	60.	11:41	44.	4:40	65.
7	50.	54.	46.	62.	12:37	41.	23:17	65.
8	52.	57.	47.	65.	14:26	36.	5:11	66.
9	57.	63.	50.	75.	16:46	37.	5:23	65.
10	61.	69.	53.	78.	13: 0	41.	4:33	66.
11	64.	71.	56.	83.	14: 3	44.	5: 5	67.
12	69.	78.	60.	91.	13:53	48.	5:15	70.
13	69.	79.	59.	90.	14: 8	49.	4:32	69.
14	59.	67.	51.	81.	13:20	43.	3:18	67.
15	53.	58.	49.	69.	14: 3	43.	23:44	67.
16	57.	61.	52.	75.	14: 1	43.	0:22	69.
17	63.	71.	54.	84.	13:35	46.	4:15	69.
18	61.	70.	52.	81.	13:27	46.	4:44	68.
19	56.	58.	53.	66.	13:15	51.	2:41	68.
20	55.	56.	54.	59.	13:47	51.	4:11	67.
21	58.	59.	56.	63.	14:51	54.	5:47	68.
22	62.	66.	57.	77.	14: 3	54.	23:55	69.
23	63.	70.	58.	78.	15:23	46.	4:38	70.
24	67.	75.	60.	86.	16:45	48.	4:38	71.
25	69.	78.	59.	91.	12:30	49.	4:56	69.
26	65.	72.	59.	87.	15:52	48.	2:16	70.
27	62.	69.	56.	81.	14:33	47.	4:40	69.
28	61.	67.	55.	75.	15:16	45.	5:24	69.
29	64.	72.	55.	85.	14:32	41.	5:12	69.
30	68.	78.	59.	91.	16:32	44.	4:21	71.
31	71.	83.	60.	94.	13: 7	48.	4:51	72.
MEAN	60.	66.	54.					68.
STANDARD DEVIATION	6.0	8.4	4.2					2.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: MONTECITO PINES
SANTA ROSA, CALIFORNIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 164

LATITUDE: 37.61 DEG NORTH
LONGITUDE: 122.38 DEG WEST

AZIMUTH: 22 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: PACIFIC
ALTITUDE: 8 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	1278.	N.A.	N.A.	349.	10:42	3032.	42.
2	2169.	N.A.	N.A.	303.	11: 3	3023.	72.
3	749.	N.A.	N.A.	182.	14: 9	3017.	25.
4	1761.	N.A.	N.A.	301.	9:55	3008.	59.
5	895.	N.A.	N.A.	303.	12:51	3002.	30.
6	661.	N.A.	N.A.	207.	8:13	2996.	22.
7	1547.	N.A.	N.A.	346.	12:37	2987.	52.
8	2267.	N.A.	N.A.	329.	11:46	2981.	76.
9	2175.	N.A.	N.A.	303.	10:38	2972.	73.
10	2166.	N.A.	N.A.	301.	11: 2	2964.	73.
11	2115.	N.A.	N.A.	298.	11:13	2956.	72.
12	2108.	N.A.	N.A.	295.	10:46	2950.	71.
13	2107.	N.A.	N.A.	295.	11:12	2942.	72.
14	1976.	N.A.	N.A.	298.	10:46	2934.	67.
15	1317.	N.A.	N.A.	323.	10:46	2927.	45.
16	1674.	N.A.	N.A.	306.	10: 1	2919.	57.
17	2021.	N.A.	N.A.	289.	11:11	2912.	69.
18	2062.	N.A.	N.A.	289.	11:13	2907.	71.
19	702.	N.A.	N.A.	204.	13:10	2900.	24.
20	277.	N.A.	N.A.	48.	10:46	2893.	10.
21	391.	N.A.	N.A.	79.	9:42	2886.	14.
22	1406.	N.A.	N.A.	264.	10:25	2879.	49.
23	1917.	N.A.	N.A.	306.	12:54	2872.	67.
24	1972.	N.A.	N.A.	289.	11: 3	2866.	69.
25	2029.	N.A.	N.A.	286.	11:15	2860.	71.
26	1939.	N.A.	N.A.	289.	10:38	2853.	68.
27	1933.	N.A.	N.A.	303.	12:25	2848.	68.
28	2011.	N.A.	N.A.	295.	11:10	2842.	71.
29	2117.	N.A.	N.A.	298.	10:48	2836.	75.
30	2120.	N.A.	N.A.	298.	10:45	2831.	75.
31	2099.	N.A.	N.A.	295.	11: 9	2826.	74.
MEAN	1676.	N.A.	N.A.			2923.	
STANDARD DEVIATION	593.	N.A.	N.A.			63.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ORTIZ & REILL
 ESCONDIDO, CALIFORNIA

REPORT PERIOD: 79/ 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

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.	56.	71.	12:53	54.	23:55	*
2	60.	64.	56.	72.	12:14	52.	2:47	*
3	63.	69.	57.	79.	14:16	53.	21:44	*
4	65.	73.	57.	82.	13: 8	53.	22: 6	*
5	61.	66.	57.	77.	13:40	54.	6: 6	*
6	62.	66.	57.	72.	13:24	56.	3:32	*
7	60.	63.	56.	70.	11:10	54.	1:29	*
8	55.	*	55.	56.	0: 9	53.	1:34	*
9	60.	67.	50.	74.	11: 0	43.	23:48	*
10	64.	75.	52.	81.	12:12	40.	3:19	*
11	73.	86.	58.	93.	11:20	46.	3:20	*
12	77.	93.	61.	103.	15:17	51.	4:45	*
13	82.	98.	64.	107.	14:34	54.	1:35	*
14	77.	90.	61.	95.	10:47	55.	4:28	*
15	67.	75.	59.	80.	12:33	57.	4:39	*
16	64.	70.	58.	76.	11:44	55.	21:15	*
17	62.	67.	58.	75.	11:54	56.	4:20	*
18	65.	72.	59.	76.	11:45	53.	4:28	*
19	61.	64.	59.	74.	13:56	57.	23:59	*
20	60.	61.	59.	65.	14:55	57.	3:27	*
21	66.	73.	59.	79.	12:32	53.	23:34	*
22	69.	80.	58.	90.	14:43	49.	5: 1	*
23	71.	82.	61.	90.	11:36	55.	4:19	*
24	66.	72.	60.	82.	13:11	58.	3:57	*
25	68.	74.	61.	81.	10:52	59.	23:35	*
26	68.	75.	62.	86.	11:13	57.	0:17	*
27	65.	69.	62.	78.	13:20	60.	21:52	*
28	65.	69.	61.	73.	10:13	60.	0:48	*
29	64.	71.	58.	78.	13:57	53.	21:52	*
30	64.	69.	59.	81.	14:29	56.	5: 9	*
31	63.	65.	61.	69.	12:14	60.	22: 6	*
MEAN	65.	73.	58.					0.
STANDARD DEVIATION	5.7	9.1	2.9					*****

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ORTIZ & REILL
ESCONDIDO, CALIFORNIAREPORT PERIOD: 79/ 5
SITE NUMBER: 175LATITUDE: 33.07 DEG NORTH
LONGITUDE: 117.10 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEGTIME ZONE: PACIFIC
ALTITUDE: 13 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	1254.	N.A.	N.A.	315.	10:40	2829.	44.
2	958.	N.A.	N.A.	321.	11:36	2817.	34.
3	1254.	N.A.	N.A.	309.	11: 9	2807.	45.
4	1798.	N.A.	N.A.	294.	10:12	2795.	64.
5	1254.	N.A.	N.A.	300.	11:37	2784.	45.
6	1484.	N.A.	N.A.	345.	11: 0	2772.	54.
7	993.	N.A.	N.A.	349.	11:10	2763.	36.
8	*	N.A.	N.A.	*	*:*	2752.	*
9	2016.	N.A.	N.A.	315.	11: 5	2741.	74.
10	2079.	N.A.	N.A.	303.	10:42	2730.	76.
11	2066.	N.A.	N.A.	300.	10:32	2719.	76.
12	2163.	N.A.	N.A.	300.	10:43	2711.	80.
13	2183.	N.A.	N.A.	303.	10:39	2700.	81.
14	2083.	N.A.	N.A.	288.	10:31	2692.	77.
15	2047.	N.A.	N.A.	285.	10:31	2682.	76.
16	1541.	N.A.	N.A.	297.	11: 7	2672.	58.
17	1373.	N.A.	N.A.	330.	10:50	2662.	52.
18	1956.	N.A.	N.A.	285.	11: 2	2653.	74.
19	561.	N.A.	N.A.	242.	12:44	2643.	21.
20	319.	N.A.	N.A.	76.	14:39	2637.	12.
21	1588.	N.A.	N.A.	306.	10:24	2628.	60.
22	1913.	N.A.	N.A.	300.	10:53	2619.	73.
23	1695.	N.A.	N.A.	306.	11: 4	2610.	65.
24	1281.	N.A.	N.A.	309.	10:26	2602.	49.
25	1817.	N.A.	N.A.	306.	10:52	2594.	70.
26	1781.	N.A.	N.A.	270.	10:25	2589.	69.
27	845.	N.A.	N.A.	242.	12:32	2581.	33.
28	794.	N.A.	N.A.	145.	13:30	2574.	31.
29	1615.	N.A.	N.A.	333.	10:50	2567.	63.
30	1267.	N.A.	N.A.	330.	11:23	2562.	49.
31	415.	N.A.	N.A.	103.	12:30	2556.	16.
MEAN	1480.	N.A.	N.A.			2679.	
STANDARD DEVIATION	538.	N.A.	N.A.			84.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: ALABAMA POWER
MCNTEVALLC, ALABAMA

REPORT PERIOD: 79/ 5
SITE NUMBER: 17

LATITUDE: 32.00 DEG NORTH
LONGITUDE: 86.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 50 DEG

TIME ZONE: CENTRAL
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	64.	71.	55.	64.	15:21	46.	6:54	
2	70.	73.	68.	62.	15:26	60.	1: 7	
3	72.	74.	71.	65.	16:49	62.	6:25	
4	67.	67.	66.	73.	12:25	62.	22:44	
5	68.	70.	65.	61.	16:15	60.	7:26	
6	66.	69.	64.	63.	16:26	54.	5:41	
7	69.	73.	65.	66.	15:52	54.	6:32	
8	71.	73.	70.	62.	17:11	63.	2:43	
9	75.	76.	73.	66.	17:25	68.	7:33	
10	76.	79.	73.	63.	16:23	63.	7: 3	
11	77.	82.	72.	64.	16:18	66.	3:30	
12	71.	74.	70.	63.	14: 5	64.	2:42	
13	61.	60.	61.	69.	0: 2	54.	23:56	
14	63.	68.	55.	61.	16:15	46.	6:18	
15	68.	74.	62.	69.	15:57	48.	7: 9	
16	69.	75.	64.	63.	15:56	56.	23:56	
17	68.	74.	63.	68.	16: 9	50.	5:40	
18	71.	76.	67.	67.	17: 7	55.	6:49	
19	70.	75.	66.	66.	16:37	60.	6:54	
20	74.	79.	69.	60.	15: 6	60.	5:35	
21	74.	79.	70.	60.	15:18	62.	6:46	
22	74.	78.	70.	68.	16:34	60.	6:42	
23	70.	70.	70.	78.	15:59	66.	6:39	
24	66.	69.	65.	76.	17:37	56.	23:13	
25	57.	61.	54.	70.	15:41	46.	6: 5	
26	60.	66.	54.	79.	16:29	39.	6:16	
27	64.	68.	61.	60.	13:44	50.	2:48	
28	70.	71.	69.	64.	16:23	63.	7: 3	
29	70.	72.	69.	60.	15:35	66.	5: 1	
30	72.	75.	69.	63.	13:41	65.	2:31	
31	72.	74.	71.	64.	13:53	67.	5:27	
MEAN	69.	72.	66.					
STANDARD DEVIATION	4.7	5.1	5.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: ALAEMA POWER
MONTEVALLC, ALABAMAREPORT PERIOD: 79/ 5
SITE NUMBER: 17LATITUDE: 32.00 DEG NORTH
LONGITUDE: 86.00 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 50 DEGTIME ZONE: CENTRAL
ALTITUDE: 620 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1934.	N.A.	N.A.	310.	13:23	2612.	74.
2	1361.	N.A.	N.A.	329.	14: 6	2597.	52.
3	1085.	N.A.	N.A.	345.	13:42	2585.	42.
4	317.	N.A.	N.A.	93.	10:33	2571.	12.
5	1258.	N.A.	N.A.	348.	12:46	2557.	49.
6	1415.	N.A.	N.A.	322.	14: 7	2545.	56.
7	1880.	N.A.	N.A.	332.	14:21	2534.	74.
8	1089.	N.A.	N.A.	284.	15:46	2520.	43.
9	1368.	N.A.	N.A.	357.	14:19	2507.	55.
10	1608.	N.A.	N.A.	335.	14: 5	2496.	64.
11	1412.	N.A.	N.A.	335.	13:54	2483.	57.
12	1287.	N.A.	N.A.	262.	12:45	2470.	52.
13	467.	N.A.	N.A.	147.	13:32	2460.	19.
14	2367.	N.A.	N.A.	306.	13:46	2448.	97.
15	2126.	N.A.	N.A.	294.	13:33	2438.	87.
16	2286.	N.A.	N.A.	300.	13:59	2426.	94.
17	1908.	N.A.	N.A.	319.	13:56	2414.	79.
18	1844.	N.A.	N.A.	316.	14:33	2406.	77.
19	1413.	N.A.	N.A.	313.	13:13	2394.	59.
20	1924.	N.A.	N.A.	310.	14:18	2384.	81.
21	1833.	N.A.	N.A.	338.	13:21	2373.	77.
22	1867.	N.A.	N.A.	303.	12:58	2365.	79.
23	743.	N.A.	N.A.	207.	15:32	2355.	32.
24	1310.	N.A.	N.A.	303.	13:11	2348.	56.
25	1862.	N.A.	N.A.	345.	13:54	2338.	80.
26	2119.	N.A.	N.A.	310.	13:49	2329.	91.
27	1219.	N.A.	N.A.	270.	13:44	2320.	53.
28	1059.	N.A.	N.A.	319.	13:38	2312.	46.
29	913.	N.A.	N.A.	303.	14:26	2306.	40.
30	1154.	N.A.	N.A.	294.	14:34	2298.	50.
31	991.	N.A.	N.A.	294.	13:43	2290.	43.
MEAN	1465.	N.A.	N.A.			2435.	
STANDARD DEVIATION	512.	N.A.	N.A.			98.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: BLAKEDALE
GREENWCCD, SOUTH CAROLINA

REPORT PERIOD: 79/ 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	70.	78.	62.	90.	14: 8	52.	4:59	69.
2	71.	78.	65.	89.	14: 6	56.	5:13	72.
3	72.	77.	65.	86.	13: 0	61.	5:21	*
4	77.	82.	72.	92.	16: 1	67.	4:38	73.
5	73.	76.	70.	85.	14:30	65.	23:39	*
6	69.	71.	67.	83.	16:27	60.	4: 6	72.
7	74.	78.	69.	90.	13:28	65.	0:22	74.
8	73.	76.	70.	85.	14:34	67.	4:40	73.
9	72.	74.	71.	81.	13:33	69.	2:20	74.
10	79.	84.	75.	97.	17: 8	70.	4:20	*
11	78.	86.	71.	97.	15:25	69.	4:39	75.
12	78.	85.	73.	97.	14: 8	66.	5:45	*
13	74.	80.	69.	91.	15:39	66.	23:55	76.
14	73.	78.	68.	88.	15:32	62.	6:17	73.
15	73.	80.	67.	92.	14: 7	59.	5:35	71.
16	73.	79.	68.	89.	13:23	62.	5:18	71.
17	70.	77.	64.	88.	15: 6	55.	5:51	70.
18	70.	77.	63.	93.	15:31	52.	5:55	71.
19	73.	82.	66.	96.	13:55	58.	5: 2	71.
20	75.	82.	70.	95.	15: 5	60.	5:39	72.
21	74.	77.	70.	91.	14:35	67.	5:36	73.
22	76.	81.	71.	92.	15:22	67.	5: 9	*
23	73.	77.	70.	83.	14:33	67.	2:55	73.
24	71.	75.	67.	92.	16: 6	59.	23:56	*
25	59.	65.	54.	74.	13:37	49.	6: 9	72.
26	61.	68.	55.	83.	16:54	44.	5:47	63.
27	65.	70.	59.	81.	14: 3	51.	3:29	71.
28	73.	80.	67.	92.	14: 3	60.	5:36	72.
29	68.	69.	67.	77.	15:53	62.	23:58	72.
30	75.	81.	69.	91.	13:49	61.	5:43	70.
31	73.	76.	70.	87.	13:28	67.	4:46	*
MEAN	72.	77.	67.					72.
STANDARD DEVIATION	4.5	4.8	4.7					2.5

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: BLAKEDALE
GREENWCCD, SOUTH CAROLINA

REPORT PERIOD: 79/ 5
SITE NUMBER: 13

LATITUDE: 34.20 DEG NORTH
LONGITUDE: 82.20 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEG

TIME ZONE: EASTERN
ALTITUDE: 496 FEET

INSCLATIGN

DAY	TOTAL INSOLATIGN BTU/FT2	TOTAL DIFF INSCLATIGN BTU/FT2	TOTAL DIR INSCLATIGN BTU/FT2	MAXIMUM TOTAL INSCLATIGN VALLE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATIGN BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2057.	N.A.	N.A.	286.	13: 4	2867.	72.
2	1627.	N.A.	N.A.	298.	12:52	2855.	57.
3	1078.	N.A.	N.A.	250.	11:45	2844.	38.
4	1348.	N.A.	N.A.	277.	12:38	2832.	48.
5	1113.	N.A.	N.A.	289.	14:14	2824.	39.
6	883.	N.A.	N.A.	280.	15:18	2813.	31.
7	953.	N.A.	N.A.	286.	12:36	2802.	34.
8	763.	N.A.	N.A.	253.	14:18	2793.	27.
9	596.	N.A.	N.A.	221.	13:28	2783.	21.
10	1573.	N.A.	N.A.	301.	13:45	2772.	57.
11	1412.	N.A.	N.A.	265.	12:23	2761.	51.
12	1669.	N.A.	N.A.	277.	13:58	2751.	61.
13	1199.	N.A.	N.A.	298.	12:38	2744.	44.
14	1610.	N.A.	N.A.	313.	13:18	2734.	59.
15	1786.	N.A.	N.A.	280.	13:14	2724.	66.
16	1745.	N.A.	N.A.	298.	13:23	2714.	64.
17	1862.	N.A.	N.A.	289.	14:13	2705.	69.
18	1898.	N.A.	N.A.	274.	13:18	2695.	70.
19	1576.	N.A.	N.A.	277.	12:51	2689.	59.
20	1708.	N.A.	N.A.	271.	13:45	2680.	64.
21	966.	N.A.	N.A.	289.	13:31	2671.	36.
22	1306.	N.A.	N.A.	265.	12:26	2666.	49.
23	844.	N.A.	N.A.	212.	14:33	2657.	32.
24	1041.	N.A.	N.A.	289.	14: 4	2649.	39.
25	1532.	N.A.	N.A.	304.	14: 3	2641.	58.
26	1918.	N.A.	N.A.	283.	13:10	2634.	73.
27	870.	N.A.	N.A.	322.	13:47	2627.	33.
28	1620.	N.A.	N.A.	286.	13:15	2619.	62.
29	576.	N.A.	N.A.	224.	15:47	2613.	22.
30	1332.	N.A.	N.A.	283.	13: 6	2609.	51.
31	730.	N.A.	N.A.	218.	10:48	2602.	28.
MEAN	1329.	N.A.	N.A.			2722.	
STANDARD DEVIATION	427.	N.A.	N.A.			81.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: CHARLOTTE MEDICAL CENTER
CHARLOTTE, NORTH CAROLINAREPORT PERIOD: 79/ 5
SITE NUMBER: 7LATITUDE: 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	66.	72.	60.	84.	15:40	53.	4:44	
2	68.	74.	61.	82.	13:54	52.	5:27	
3	68.	72.	65.	79.	15:32	58.	2:23	
4	72.	76.	68.	86.	15:44	64.	2:13	
5	64.	65.	62.	72.	14: 0	56.	22: 6	
6	61.	62.	59.	70.	16:40	56.	0:30	
7	71.	76.	66.	83.	15:18	59.	3:50	
8	71.	75.	68.	87.	15:25	62.	4:24	
9	69.	70.	68.	73.	10:11	67.	2:11	
10	74.	77.	70.	89.	17: 9	66.	4:43	
11	74.	79.	69.	94.	14:49	63.	16: 9	
12	74.	81.	68.	89.	14:30	62.	21:37	
13	69.	74.	65.	84.	14:57	64.	1:15	
14	66.	70.	63.	78.	15: 0	58.	23:53	
15	69.	75.	63.	88.	16:42	55.	5: 8	
16	68.	73.	63.	82.	16:17	59.	23:56	
17	65.	69.	60.	78.	15:40	54.	5:11	
18	65.	72.	59.	85.	15:58	50.	5:13	
19	69.	76.	62.	89.	14:20	52.	4:52	
20	69.	74.	64.	87.	13:56	58.	4:33	
21	68.	71.	65.	78.	12: 5	61.	2:45	
22	71.	74.	68.	82.	12:44	63.	7: 8	
23	72.	76.	68.	84.	14: 1	65.	5: 3	
24	65.	68.	62.	77.	17:27	56.	23:56	
25	57.	61.	53.	69.	12:51	47.	23:52	
26	58.	63.	53.	74.	16:40	45.	5:18	
27	62.	69.	55.	78.	13:23	47.	5:28	
28	68.	73.	63.	82.	14:54	57.	5: 2	
29	70.	75.	65.	83.	10:32	59.	5:17	
30	73.	78.	67.	89.	15:49	60.	5:20	
31	71.	74.	69.	83.	12:33	66.	23:45	
MEAN	68.	72.	64.					
STANDARD DEVIATION	4.3	4.7	4.6					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: CHARLOTTE MEDICAL CENTER
CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 7/ 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 INSOLATION VALUE BTU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2125.	N.A.	N.A.	298.	11:56	3174.	67.
2	1846.	N.A.	N.A.	319.	12:50	3168.	58.
3	1027.	N.A.	N.A.	199.	11:21	3162.	32.
4	956.	N.A.	N.A.	241.	13:25	3156.	30.
5	1014.	N.A.	N.A.	292.	10:29	3150.	32.
6	414.	N.A.	N.A.	114.	13:18	3144.	13.
7	1355.	N.A.	N.A.	316.	11:45	3138.	44.
8	1202.	N.A.	N.A.	304.	12:56	3132.	38.
9	465.	N.A.	N.A.	111.	13:39	3126.	15.
10	913.	N.A.	N.A.	256.	14:19	3120.	29.
11	1601.	N.A.	N.A.	283.	12: 9	3114.	51.
12	1672.	N.A.	N.A.	286.	12:47	3108.	54.
13	1114.	N.A.	N.A.	310.	12:22	3102.	36.
14	1600.	N.A.	N.A.	301.	12:20	3096.	52.
15	2031.	N.A.	N.A.	292.	11:38	3091.	66.
16	2046.	N.A.	N.A.	289.	12:12	3085.	66.
17	2111.	N.A.	N.A.	298.	12:16	3080.	69.
18	2060.	N.A.	N.A.	292.	12: 9	3074.	67.
19	1978.	N.A.	N.A.	292.	11:58	3069.	64.
20	1664.	N.A.	N.A.	277.	11:51	3064.	54.
21	499.	N.A.	N.A.	153.	11: 1	3058.	16.
22	818.	N.A.	N.A.	283.	10:36	3053.	27.
23	1292.	N.A.	N.A.	316.	11:43	3048.	42.
24	495.	N.A.	N.A.	178.	15:45	3043.	16.
25	1266.	N.A.	N.A.	316.	12:35	3039.	42.
26	1634.	N.A.	N.A.	313.	11:52	3034.	54.
27	1410.	N.A.	N.A.	340.	12:46	3030.	47.
28	1656.	N.A.	N.A.	304.	11:36	3025.	55.
29	1344.	N.A.	N.A.	304.	13:23	3021.	44.
30	1815.	N.A.	N.A.	286.	12:10	3017.	60.
31	705.	N.A.	N.A.	225.	12:17	3013.	23.
MEAN	1360.	N.A.	N.A.			3088.	
STANDARD DEVIATION	531.	N.A.	N.A.			50.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: CHARLOTTE MEDICAL CENTER
 CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 79/ 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	208.	3.	207.	4.	15.	197.	9:37
2	329.	3.	328.	4.	14.	329.	15:19
3	5.	5.	6.	7.	18.	14.	17:24
4	27.	5.	33.	7.	19.	28.	16:26
5	233.	3.	225.	5.	18.	199.	7:33
6	*	1.	*	2.	11.	*	13:55
7	320.	3.	321.	3.	14.	301.	15:56
8	303.	2.	288.	3.	20.	343.	17:44
9	312.	2.	312.	4.	13.	316.	13:17
10	*	1.	*	1.	7.	*	1:47
11	*	2.	*	2.	25.	*	15:53
12	350.	3.	356.	3.	15.	19.	16: 1
13	6.	4.	17.	4.	15.	35.	11:34
14	211.	4.	209.	5.	14.	232.	9: 2
15	208.	2.	218.	2.	13.	219.	7: 0
16	208.	4.	209.	6.	24.	210.	9:26
17	216.	4.	214.	5.	15.	213.	8:28
18	*	2.	*	3.	13.	*	12:30
19	*	2.	*	2.	12.	*	18:41
20	238.	3.	219.	3.	12.	315.	21:53
21	*	1.	*	1.	6.	*	5:51
22	*	1.	*	1.	5.	*	16:28
23	2.	5.	5.	6.	22.	30.	12:25
24	18.	5.	15.	5.	19.	158.	18:57
25	85.	2.	73.	4.	24.	116.	13:18
26	73.	4.	84.	5.	19.	14.	16:46
27	24.	5.	21.	7.	25.	31.	10:38
28	31.	4.	44.	5.	17.	26.	11:58
29	26.	3.	20.	4.	16.	36.	13:49
30	326.	3.	321.	3.	19.	324.	23:33
31	C.	4.	1.	5.	17.	16.	13:53
MEAN	157.	3.	156.	4.			
STANDARD DEVIATION	129.9	1.3	127.6	1.8			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: CHARLOTTE MEDICAL CENTER
CHARLOTTE, NORTH CAROLINA

REPORT PERIOD: 79/ 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	13-16 MPH	16-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	18	6	0	0	0	0	0	0	0
2	17	5	2	0	0	0	0	0	0
3	11	11	2	0	0	0	0	0	0
4	8	13	3	0	0	0	0	0	0
5	18	4	2	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	18	6	0	0	0	0	0	0	0
8	18	6	0	0	0	0	0	0	0
9	17	7	0	0	0	0	0	0	0
10	24	0	0	0	0	0	0	0	0
11	21	3	0	0	0	0	0	0	0
12	16	3	0	0	0	0	0	0	0
13	12	12	0	0	0	0	0	0	0
14	13	10	1	0	0	0	0	0	0
15	22	2	0	0	0	0	0	0	0
16	12	8	4	0	0	0	0	0	0
17	13	10	1	0	0	0	0	0	0
18	22	2	0	0	0	0	0	0	0
19	21	3	0	0	0	0	0	0	0
20	19	5	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	5	10	5	0	0	0	0	0	0
24	11	11	2	0	0	0	0	0	0
25	15	9	0	0	0	0	0	0	0
26	14	10	0	0	0	0	0	0	0
27	13	4	7	0	0	0	0	0	0
28	12	11	1	0	0	0	0	0	0
29	17	6	1	0	0	0	0	0	0
30	15	7	2	0	0	0	0	0	0
31	12	10	1	0	0	0	0	0	1
AVERAGE	16.5	6.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	510	199	34	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: CHESTER WEST
HUNTSVILLE, ALABAMA

REPORT PERIOD: 79/ 5
SITE NUMBER: 7E

LATITUDE: 34.40 DEG NORTH
LONGITUDE: 86.60 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 49 DEG

TIME ZONE: CENTRAL
ALTITUDE: 600 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE VALUE TIME HR:MN	MIN TEMPERATURE VALUE TIME HR:MN	INLET WATER TEMPERATURE
1	68.	74.	63.	82. 13: 7	54. 0:14	
2	71.	74.	69.	80. 15:12	64. 5: 4	
3	70.	71.	70.	78. 14: 3	63. 10:24	
4	65.	66.	64.	73. 0:48	58. 23:59	
5	61.	66.	57.	76. 12: 4	54. 21:40	
6	65.	70.	60.	80. 15:11	51. 2:50	
7	74.	79.	69.	85. 15:45	62. 5:10	
8	73.	76.	70.	82. 16: 3	66. 2:32	
9	75.	78.	73.	85. 13:52	69. 3:34	
10	77.	83.	72.	89. 12:39	66. 22:20	
11	77.	84.	71.	82. 14:16	64. 3:54	
12	68.	71.	65.	75. 14:39	56. 23:49	
13	58.	61.	55.	68. 14:50	48. 23:38	
14	*	*	*	* *:*	* *:*	
15	*	*	*	* *:*	* *:*	
16	*	*	*	* *:*	* *:*	
17	*	*	*	* *:*	* *:*	
18	*	*	*	* *:*	* *:*	
19	*	*	*	* *:*	* *:*	
20	*	*	*	* *:*	* *:*	
21	*	*	*	* *:*	* *:*	
22	*	*	*	* *:*	* *:*	
23	*	*	*	* *:*	* *:*	
24	*	*	*	* *:*	* *:*	
25	*	*	*	* *:*	* *:*	
26	*	*	*	* *:*	* *:*	
27	*	*	*	* *:*	* *:*	
28	*	*	*	* *:*	* *:*	
29	*	*	*	* *:*	* *:*	
30	*	*	*	* *:*	* *:*	
31	*	*	*	* *:*	* *:*	
MEAN	69.	73.	66.			
STANDARD DEVIATION	6.1	6.9	5.9			

ENVIRONMENTAL SUMMARY REPORT

SITE: CHESTER WEST
HUNTSVILLE, ALABAMA

REPORT PERIOD: 7/ 5
SITE NUMBER: 78

LATITUDE: 34.40 DEG NORTH
LONGITUDE: 86.60 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 49 DEG

TIME ZONE: CENTRAL
ALTITUDE: 600 FEET

INSCLATION

DAY	TOTAL	TOTAL DIFF	TOTAL DIR	MAXIMUM TOTAL		EXTRATERRESTRIAL	TTL INS
	INSCLATION	INSCLATION	INSCLATION	INSCLATION	TIME	INSCLATION	INS
	BTU/FT2	BTU/FT2	BTU/FT2	VALUE	FR:MN	ETU/FT2	EXT INS
				ETU/HR/FT2			PERCENT
1	1701.	N.A.	N.A.	282.	11:42	2737.	62.
2	1095.	N.A.	N.A.	261.	11: 1	2726.	40.
3	686.	N.A.	N.A.	297.	11:50	2713.	25.
4	340.	N.A.	N.A.	87.	9:35	2700.	13.
5	1133.	N.A.	N.A.	306.	11:54	2687.	42.
6	1584.	N.A.	N.A.	282.	12:20	2677.	59.
7	1612.	N.A.	N.A.	297.	11:29	2664.	61.
8	547.	N.A.	N.A.	254.	11: 9	2652.	36.
9	903.	N.A.	N.A.	234.	10:35	2640.	34.
10	1770.	N.A.	N.A.	282.	11:14	2630.	67.
11	1453.	N.A.	N.A.	273.	11:49	2618.	55.
12	528.	N.A.	N.A.	123.	5:15	2609.	20.
13	581.	N.A.	N.A.	165.	14:50	2598.	22.
14	*	N.A.	N.A.	*	*:*	2587.	*
15	*	N.A.	N.A.	*	*:*	2575.	*
16	*	N.A.	N.A.	*	*:*	2567.	*
17	*	N.A.	N.A.	*	*:*	2557.	*
18	*	N.A.	N.A.	*	*:*	2546.	*
19	*	N.A.	N.A.	*	*:*	2536.	*
20	*	N.A.	N.A.	*	*:*	2528.	*
21	*	N.A.	N.A.	*	*:*	2519.	*
22	*	N.A.	N.A.	*	*:*	2509.	*
23	*	N.A.	N.A.	*	*:*	2503.	*
24	*	N.A.	N.A.	*	*:*	2494.	*
25	*	N.A.	N.A.	*	*:*	2485.	*
26	*	N.A.	N.A.	*	*:*	2476.	*
27	*	N.A.	N.A.	*	*:*	2468.	*
28	*	N.A.	N.A.	*	*:*	2463.	*
29	*	N.A.	N.A.	*	*:*	2455.	*
30	*	N.A.	N.A.	*	*:*	2448.	*
31	*	N.A.	N.A.	*	*:*	2441.	*
MEAN	1103.	N.A.	N.A.			2574.	
STANDARD DEVIATION	486.	N.A.	N.A.			91.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HELICOTHERMICS
GREENVILLE, SOUTH CAROLINA

REPORT PERIOD: 79/ 5
SITE NUMBER: 73

LATITUDE: 34.00 DEG NORTH AZIMUTH: 10 DEG
LONGITUDE: 83.00 DEG WEST PYRANOMETER TILT: 51 DEG TIME ZONE: EASTERN
ALTIMITUDE: 980 FEET

INSCLATICA

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSCLATICA BTU/FT2	TOTAL DIR INSCLATICA BTU/FT2	MAXIMUM TOTAL INSCLATICA VALLE BTU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSCLATICA BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2012.	N.A.	N.A.	290.	12:51	2673.	75.
2	1935.	N.A.	N.A.	293.	13: 1	2656.	73.
3	694.	N.A.	N.A.	240.	14: 6	2645.	26.
4	1073.	N.A.	N.A.	293.	14: 0	2631.	41.
5	957.	N.A.	N.A.	265.	12:29	2620.	37.
6	865.	N.A.	N.A.	202.	15:34	2607.	33.
7	904.	N.A.	N.A.	272.	14:14	2594.	35.
8	878.	N.A.	N.A.	246.	13:37	2583.	34.
9	622.	N.A.	N.A.	243.	12:11	2573.	24.
10	1218.	N.A.	N.A.	315.	14: 1	2558.	48.
11	1435.	N.A.	N.A.	272.	13:18	2548.	56.
12	1741.	N.A.	N.A.	272.	13: 2	2535.	69.
13	1075.	N.A.	N.A.	316.	11:58	2526.	43.
14	2005.	N.A.	N.A.	287.	12:47	2514.	80.
15	1547.	N.A.	N.A.	275.	12:29	2502.	78.
16	1884.	N.A.	N.A.	278.	12:28	2491.	76.
17	1926.	N.A.	N.A.	299.	12:54	2482.	78.
18	1955.	N.A.	N.A.	278.	12:40	2471.	79.
19	1482.	N.A.	N.A.	304.	15:55	2461.	60.
20	1581.	N.A.	N.A.	293.	12:49	2450.	65.
21	899.	N.A.	N.A.	310.	14:26	2442.	37.
22	878.	N.A.	N.A.	220.	12: 7	2433.	36.
23	526.	N.A.	N.A.	129.	12: 6	2425.	22.
24	1223.	N.A.	N.A.	313.	13:19	2416.	51.
25	1662.	N.A.	N.A.	325.	12:37	2407.	69.
26	1957.	N.A.	N.A.	287.	12:43	2398.	82.
27	906.	N.A.	N.A.	299.	11:46	2389.	38.
28	1849.	N.A.	N.A.	302.	12:38	2384.	78.
29	805.	N.A.	N.A.	231.	15:14	2376.	34.
30	1317.	N.A.	N.A.	281.	13: 3	2370.	56.
31	675.	N.A.	N.A.	217.	12:12	2360.	29.
MEAN	1319.	N.A.	N.A.			2501.	
STANDARD DEVIATION	499.	N.A.	N.A.			95.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: PHILLIPS - KALRIC
ST MATHEWS, SOUTH CAROLINA

REPORT PERIOD: 79/ 5
SITE NUMBER: 74

LATITUDE: 33.57 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 81.00 DEG WEST PYRANOMETER TILT: 30 DEG
TIME ZONE: EASTERN ALTITUDE: 213 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MM	VALUE	TIME HR:MM	
1	65.	72.	59.	86.	17:36	50.	5:30	
2	68.	76.	59.	86.	14:32	50.	4:39	
3	72.	77.	66.	88.	14:29	57.	8: 9	
4	74.	77.	70.	86.	15:28	65.	2:32	
5	68.	71.	65.	82.	13:52	61.	22:17	
6	70.	74.	66.	87.	15:42	61.	4:30	
7	73.	79.	67.	91.	14: 7	61.	5:14	
8	72.	75.	69.	85.	14: 0	67.	6:16	
9	70.	71.	68.	74.	10:42	67.	1:50	
10	72.	76.	69.	86.	13:13	67.	23:34	
11	71.	73.	67.	87.	11:56	65.	23:16	
12	73.	77.	68.	90.	14:25	62.	5:29	
13	73.	78.	68.	87.	16:17	66.	4:12	
14	68.	70.	66.	79.	16: 8	62.	23: 9	
15	68.	73.	62.	85.	17:53	57.	5: 7	
16	68.	74.	63.	81.	13:23	56.	4:19	
17	65.	71.	58.	78.	14:45	53.	3:49	
18	60.	66.	53.	77.	17:35	47.	5:12	
19	70.	73.	67.	86.	18:17	55.	1:49	
20	70.	74.	66.	87.	17:13	57.	4:52	
21	72.	77.	67.	88.	14:44	65.	5:13	
22	74.	80.	67.	94.	14:28	65.	1:48	
23	73.	77.	69.	83.	14:31	65.	4:39	
24	70.	73.	68.	81.	13:27	64.	23:51	
25	60.	63.	57.	69.	14:41	51.	23:29	
26	61.	67.	52.	74.	17:21	46.	4:54	
27	73.	75.	70.	83.	13:35	64.	8:24	
28	73.	77.	67.	85.	14:44	62.	4:58	
29	68.	69.	66.	77.	9:24	61.	11:37	
30	76.	81.	69.	86.	15: 2	60.	4:57	
31	75.	81.	69.	88.	14: 6	66.	18:43	
MEAN	70.	74.	65.					
STANDARD DEVIATION	4.2	4.4	4.8					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: PHILLIPS - KAURIC
ST MATHEWS, SOUTH CAROLINA

REPORT PERIOD: 79/ 5
SITE NUMBER: 74

LATITUDE: 33.57 DEG NORTH
LONGITUDE: 81.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: EASTERN
ALTITUDE: 213 FEET

INSOLATION

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL INSOLATION VALUE ETU/HR/FT2	TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	2391.	N.A.	N.A.	323.	12:10	3245.	74.
2	2229.	N.A.	N.A.	333.	11:52	3241.	69.
3	1726.	N.A.	N.A.	339.	11:43	3237.	53.
4	1419.	N.A.	N.A.	283.	11:38	3232.	44.
5	857.	N.A.	N.A.	329.	13:36	3228.	27.
6	1398.	N.A.	N.A.	314.	13:56	3224.	43.
7	1724.	N.A.	N.A.	360.	12:42	3219.	54.
8	942.	N.A.	N.A.	216.	12:14	3215.	29.
9	520.	N.A.	N.A.	120.	10:36	3210.	16.
10	926.	N.A.	N.A.	276.	13:13	3206.	29.
11	1116.	N.A.	N.A.	339.	11:50	3202.	35.
12	*	N.A.	N.A.	*	*:*	3197.	*
13	1916.	N.A.	N.A.	388.	11:51	3193.	60.
14	1250.	N.A.	N.A.	286.	12:40	3189.	39.
15	2173.	N.A.	N.A.	336.	11:55	3182.	68.
16	2237.	N.A.	N.A.	314.	11:36	3177.	70.
17	2605.	N.A.	N.A.	351.	12:21	3173.	82.
18	*	N.A.	N.A.	*	*:*	3169.	*
19	*	N.A.	N.A.	*	*:*	3165.	*
20	1947.	N.A.	N.A.	305.	12:14	3161.	62.
21	*	N.A.	N.A.	*	*:*	3157.	*
22	1739.	N.A.	N.A.	329.	11:46	3153.	55.
23	1481.	N.A.	N.A.	292.	13:22	3149.	47.
24	1374.	N.A.	N.A.	394.	13: 0	3142.	44.
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	749.	N.A.	N.A.	289.	13: 2	3125.	24.
30	2036.	N.A.	N.A.	323.	12:48	3122.	65.
31	1521.	N.A.	N.A.	320.	12:30	3118.	49.
MEAN	1577.	N.A.	N.A.			3180.	
STANDARD DEVIATION	566.	N.A.	N.A.			40.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: RHRU
CLEMSON, SOUTH CAROLINA

REPORT PERIOD: 79/ 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

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	63.	73.	55.	86.	14:40	43.	5:57	75.
2	65.	74.	59.	82.	14:21	47.	6: 0	78.
3	66.	68.	65.	79.	16:32	60.	6:19	77.
4	69.	74.	65.	81.	14:27	63.	1:31	81.
5	69.	74.	64.	88.	15:47	60.	6:11	83.
6	66.	70.	62.	82.	17:15	58.	2:46	80.
7	69.	73.	66.	87.	15:43	60.	0:27	80.
8	70.	74.	67.	82.	11:26	64.	3:27	80.
9	69.	71.	67.	78.	13:29	66.	5: 2	80.
10	74.	77.	70.	90.	14:38	66.	6: 6	81.
11	66.	*	66.	69.	0: 3	63.	4:35	*
12	65.	*	65.	72.	19: 9	64.	19:46	85.
13	69.	73.	66.	81.	13: 0	62.	23:45	83.
14	70.	77.	64.	87.	14:43	58.	5:53	79.
15	67.	75.	61.	87.	16:13	50.	5:12	81.
16	69.	77.	62.	86.	16:40	53.	5:44	80.
17	66.	74.	59.	84.	17: 1	50.	5:17	79.
18	65.	72.	59.	81.	14:46	46.	5:46	80.
19	68.	77.	60.	84.	13:52	52.	5:20	81.
20	69.	76.	64.	88.	15: 3	58.	5:48	80.
21	68.	71.	66.	80.	14: 0	64.	6: 4	79.
22	71.	76.	68.	85.	11:23	64.	5:10	79.
23	66.	67.	66.	68.	7:27	65.	1:47	81.
24	*	*	*	*	*:*	*	*:*	*
25	*	*	*	*	*:*	*	*:*	*
26	*	*	*	*	*:*	*	*:*	*
27	*	*	*	*	*:*	*	*:*	*
28	*	*	*	*	*:*	*	*:*	*
29	67.	67.	0.	67.	12:32	66.	12:21	80.
30	*	*	*	*	*:*	*	*:*	*
31	*	*	*	*	*:*	*	*:*	*
MEAN	68.	73.	64.					80.
STANDARD DEVIATION	2.3	3.2	3.6					2.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: RHRU
CLEMSON, SOUTH CAROLINA

REPORT PERIOD: 79/ 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

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	1782.	N.A.	N.A.	255.	11:39	2309.	77.
2	1782.	N.A.	N.A.	258.	11:31	2294.	78.
3	529.	N.A.	N.A.	182.	13:42	2276.	23.
4	949.	N.A.	N.A.	233.	12:40	2262.	42.
5	1221.	N.A.	N.A.	274.	12: 3	2247.	54.
6	779.	N.A.	N.A.	118.	9:47	2231.	35.
7	665.	N.A.	N.A.	191.	11:59	2217.	30.
8	738.	N.A.	N.A.	261.	11:10	2201.	34.
9	383.	N.A.	N.A.	229.	13:29	2187.	18.
10	1065.	N.A.	N.A.	261.	11:52	2174.	49.
11	*	N.A.	N.A.	*	*:*	2159.	*
12	*	N.A.	N.A.	*	*:*	2146.	*
13	1085.	N.A.	N.A.	268.	12:54	2131.	51.
14	1726.	N.A.	N.A.	252.	12:24	2119.	81.
15	1682.	N.A.	N.A.	242.	11:41	2107.	80.
16	1620.	N.A.	N.A.	252.	11:47	2094.	77.
17	1648.	N.A.	N.A.	242.	11:57	2080.	79.
18	1667.	N.A.	N.A.	242.	12: 0	2069.	81.
19	1594.	N.A.	N.A.	245.	11:50	2056.	78.
20	1349.	N.A.	N.A.	252.	11:40	2046.	66.
21	926.	N.A.	N.A.	261.	12: 2	2036.	45.
22	850.	N.A.	N.A.	249.	11:13	2024.	42.
23	*	N.A.	N.A.	*	*:*	2013.	*
24	*	N.A.	N.A.	*	*:*	2004.	*
25	*	N.A.	N.A.	*	*:*	1993.	*
26	*	N.A.	N.A.	*	*:*	1982.	*
27	*	N.A.	N.A.	*	*:*	1974.	*
28	*	N.A.	N.A.	*	*:*	1965.	*
29	*	N.A.	N.A.	*	*:*	1957.	*
30	*	N.A.	N.A.	*	*:*	1948.	*
31	*	N.A.	N.A.	*	*:*	1940.	*
MEAN	1202.	N.A.	N.A.			2105.	
STANDARD DEVIATION	462.	N.A.	N.A.			113.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: RHRU
CLEMSON, SOUTH CAROLINA

REPORT PERIOD: 79/ 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	63.	42.	81.	100.	2:22	25.	16:43
2	66.	46.	82.	100.	4: 0	34.	14:43
3	91.	91.	92.	100.	6:19	72.	16:27
4	92.	82.	100.	100.	0: 0	65.	13:23
5	84.	73.	94.	100.	0: 3	51.	15:47
6	87.	78.	95.	100.	2:46	59.	17:15
7	92.	86.	97.	100.	0: 1	63.	16:26
8	94.	86.	100.	100.	0: 4	67.	11:31
9	99.	98.	100.	100.	0: 3	88.	13:34
10	88.	80.	95.	100.	0: 0	55.	15:58
11	99.	0.	99.	100.	0: 3	90.	2:43
12	100.	0.	100.	100.	19:20	87.	19: 9
13	93.	87.	98.	100.	0: 1	68.	14: 4
14	65.	42.	84.	100.	0:22	22.	16:13
15	74.	58.	87.	100.	2:59	37.	16:13
16	67.	48.	82.	100.	0:19	32.	16:40
17	62.	45.	77.	96.	4:35	34.	17: 7
18	66.	48.	82.	100.	5:46	37.	15: 2
19	77.	57.	94.	100.	0:16	43.	14:30
20	83.	67.	96.	100.	0:18	50.	15: 3
21	96.	92.	99.	100.	0: 2	77.	13: 6
22	92.	84.	97.	100.	0: 2	64.	12:11
23	100.	100.	100.	100.	0: 1	100.	0: 1
24	*	*	*	*	***	*	***
25	*	*	*	*	***	*	***
26	*	*	*	*	***	*	***
27	*	*	*	*	***	*	***
28	*	*	*	*	***	*	***
29	96.	96.	0.	97.	12:26	96.	12:48
30	*	*	*	*	***	*	***
31	*	*	*	*	***	*	***
MEAN	84.	72.	93.				
STANDARD DEV IAT ION 13.		20.	8.				

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: TOWNS SCHCCL
ATLANTA, GEORGIA

REPORT PERIOD: 79/ 5
SITE NUMBER: 1

LATITUDE: 33.66 DEG NORTH AZIMUTH: 2 DEG TIME ZONE: EASTERN
LONGITUDE: 84.42 DEG WEST PYRANOMETER TILT: 45 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	66.	75.	56.	86.	15:17	43.	5:47	N.A.
2	69.	75.	64.	82.	13:16	54.	5:48	N.A.
3	71.	75.	68.	84.	15: 4	63.	4:24	N.A.
4	70.	75.	65.	86.	13:25	61.	23:23	N.A.
5	70.	75.	65.	86.	14:19	61.	5:52	N.A.
6	65.	69.	62.	82.	15: 1	56.	4:59	N.A.
7	73.	77.	68.	87.	14: 3	63.	0:48	N.A.
8	69.	71.	68.	82.	16:32	65.	7:18	N.A.
9	70.	72.	68.	81.	14:19	66.	4:24	N.A.
10	81.	84.	75.	93.	14:39	69.	0: 1	N.A.
11	76.	82.	69.	95.	14:53	63.	22:58	N.A.
12	71.	77.	66.	88.	14:14	61.	5:38	N.A.
13	66.	70.	62.	81.	12:16	55.	23:55	N.A.
14	64.	73.	57.	84.	14:16	49.	5:55	N.A.
15	70.	81.	60.	92.	14: 8	49.	5:20	N.A.
16	72.	83.	62.	92.	13:52	55.	4:11	N.A.
17	70.	79.	62.	90.	14:20	54.	5:21	N.A.
18	71.	81.	62.	91.	14: 7	56.	4: 8	N.A.
19	72.	83.	62.	95.	12:57	52.	4:52	N.A.
20	73.	80.	67.	95.	14:33	59.	5: 7	N.A.
21	74.	82.	66.	95.	13: 5	64.	5:42	N.A.
22	75.	83.	68.	94.	12:55	63.	4:50	N.A.
23	67.	68.	65.	76.	12:54	63.	2:35	N.A.
24	64.	70.	60.	78.	13: 2	49.	23:52	N.A.
25	54.	60.	48.	66.	12:10	45.	4:53	N.A.
26	60.	71.	50.	80.	13:25	39.	5:30	N.A.
27	59.	65.	54.	73.	15: 8	45.	3: 6	N.A.
28	68.	73.	63.	83.	14:25	55.	5:26	N.A.
29	67.	69.	65.	77.	13:51	63.	1: 3	N.A.
30	74.	77.	69.	87.	14:19	63.	0:10	N.A.
31	70.	72.	69.	77.	16:16	65.	12:37	N.A.
MEAN	69.	75.	63.					N.A.
STANDARD DEVIATION	5.3	5.9	5.8					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: TOWNS SCHOOL
ATLANTA, GEORGIA

REPORT PERIOD: 79/ 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

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	2128.	N.A.	N.A.	325.	12: 5	2849.	75.
2	1959.	N.A.	N.A.	325.	13: 0	2838.	65.
3	1149.	N.A.	N.A.	299.	14:21	2826.	41.
4	1060.	N.A.	N.A.	305.	13:25	2817.	38.
5	1330.	N.A.	N.A.	341.	11:23	2805.	47.
6	954.	N.A.	N.A.	318.	14:19	2794.	34.
7	1226.	N.A.	N.A.	276.	13:47	2783.	44.
8	706.	N.A.	N.A.	282.	13:58	2772.	25.
9	636.	N.A.	N.A.	260.	12: 2	2763.	23.
10	1543.	N.A.	N.A.	321.	12:26	2753.	56.
11	1268.	N.A.	N.A.	344.	12:13	2742.	46.
12	1676.	N.A.	N.A.	315.	13:26	2734.	61.
13	659.	N.A.	N.A.	266.	11:23	2724.	24.
14	2169.	N.A.	N.A.	312.	11:52	2714.	80.
15	2086.	N.A.	N.A.	308.	12:37	2704.	77.
16	2068.	N.A.	N.A.	328.	13: 5	2694.	77.
17	2081.	N.A.	N.A.	305.	12:49	2687.	77.
18	2048.	N.A.	N.A.	292.	12:42	2677.	76.
19	1830.	N.A.	N.A.	360.	12:51	2668.	69.
20	1411.	N.A.	N.A.	299.	12:30	2659.	53.
21	1270.	N.A.	N.A.	315.	13: 5	2650.	48.
22	1596.	N.A.	N.A.	318.	13:16	2642.	60.
23	509.	N.A.	N.A.	211.	12:49	2636.	19.
24	1483.	N.A.	N.A.	321.	12:35	2628.	56.
25	1267.	N.A.	N.A.	315.	13:14	2620.	48.
26	2183.	N.A.	N.A.	315.	12:26	2612.	84.
27	667.	N.A.	N.A.	208.	9:51	2607.	26.
28	1397.	N.A.	N.A.	295.	11:40	2600.	54.
29	774.	N.A.	N.A.	299.	13:51	2593.	30.
30	1159.	N.A.	N.A.	295.	11:55	2584.	45.
31	686.	N.A.	N.A.	263.	14:19	2580.	27.
MEAN	1386.	N.A.	N.A.			2702.	
STANDARD DEVIATION	533.	N.A.	N.A.			83.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: TCWNS SCHCCL
ATLANTA, GEORGIA

REPORT PERIOD: 79/ 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	MAXIMUM WIND DIRECTION	TIME HR:MN
1	*	1.	*	1.	4.	*	11:49
2	*	2.	*	3.	7.	*	14:41
3	*	1.	*	2.	5.	*	13:44
4	*	1.	*	2.	10.	*	16:43
5	*	1.	*	1.	6.	*	13:41
6	*	0.	*	1.	3.	*	12:32
7	*	1.	*	2.	6.	*	17:31
8	*	1.	*	1.	6.	*	16:38
9	*	0.	*	1.	3.	*	12:40
10	*	0.	*	0.	4.	*	20:20
11	*	1.	*	1.	11.	*	21:49
12	*	1.	*	1.	5.	*	0:13
13	*	1.	*	2.	7.	*	13:15
14	158.	3.	155.	4.	8.	180.	15:47
15	*	1.	*	2.	6.	*	13: 4
16	*	1.	*	1.	4.	*	13:47
17	*	1.	*	2.	5.	*	11:18
18	*	0.	*	1.	4.	*	14:12
19	*	2.	*	3.	9.	*	17:18
20	*	0.	*	0.	4.	*	17:39
21	*	1.	*	2.	6.	*	10:20
22	*	1.	*	1.	4.	*	12:34
23	*	0.	*	1.	3.	*	13:10
24	145.	3.	141.	4.	12.	142.	15:58
25	148.	4.	148.	7.	13.	122.	12:58
26	147.	2.	148.	5.	10.	140.	12:37
27	*	0.	*	1.	4.	*	10:23
28	*	0.	*	1.	4.	*	14: 9
29	*	0.	*	0.	3.	*	13:14
30	*	1.	*	1.	7.	*	14:51
31	*	1.	*	1.	11.	*	11:28
MEAN	150.	1.	149.	2.			
STANDARD DEVIATION	5.7	0.9	7.5	1.5			

ENVIRONMENTAL SUMMARY REPORT

PAGE 5

SITE: TOWNS SCHOOL
ATLANTA, GEORGIA

REPORT PERIOD: 7/ 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: 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	0	0	0	0	0	0	0	0
3	24	0	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	17	1	0	0	0	0	0	0	6
8	24	0	0	0	0	0	0	0	0
9	24	0	0	0	0	0	0	0	0
10	18	0	0	0	0	0	0	0	6
11	24	0	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	23	1	0	0	0	0	0	0	0
14	17	7	0	0	0	0	0	0	0
15	24	0	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	24	0	0	0	0	0	0	0	0
19	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	24	0	0	0	0	0	0	0	0
23	24	0	0	0	0	0	0	0	0
24	16	5	3	0	0	0	0	0	0
25	14	4	6	0	0	0	0	0	0
26	14	10	0	0	0	0	0	0	0
27	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	20	0	0	0	0	0	0	0	4
31	23	0	0	0	0	0	0	0	1
AVERAGE	22.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.5
TOTAL	683	35	9	0	0	0	0	0	17

ZONE II

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: DALLAS RECREATION CENTER
DALLAS, TEXAS

REPORT PERIOD: 7/ 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	66.	68.	64.	78.	15:14	60.	3:25	70.
2	72.	74.	70.	80.	14:28	64.	0: 2	70.
3	67.	69.	65.	74.	2: 7	54.	23:55	70.
4	55.	56.	55.	60.	13:34	51.	6:22	69.
5	63.	69.	57.	79.	15:32	46.	5:14	68.
6	69.	74.	63.	82.	16:53	53.	5:14	68.
7	74.	78.	70.	86.	14:27	61.	4:46	70.
8	77.	80.	74.	87.	17:11	70.	1: 2	71.
9	77.	80.	74.	84.	12:25	70.	3:26	72.
10	76.	82.	69.	91.	14: 7	58.	23: 0	73.
11	55.	54.	55.	59.	0:15	49.	23:39	71.
12	59.	66.	52.	75.	15:33	42.	5:10	70.
13	68.	77.	59.	86.	14:47	48.	5:16	69.
14	73.	79.	67.	87.	14:57	53.	5:26	71.
15	75.	82.	67.	89.	13:15	58.	4:49	71.
16	76.	83.	69.	89.	10:23	61.	4:20	72.
17	76.	80.	71.	87.	12:30	63.	5:24	73.
18	76.	80.	72.	87.	15:31	63.	5:12	74.
19	78.	80.	75.	88.	17: 8	69.	5:44	74.
20	78.	81.	75.	86.	12:25	70.	5: 2	74.
21	72.	73.	70.	82.	14: 8	65.	23:55	75.
22	66.	68.	65.	77.	14:55	64.	0:48	74.
23	74.	78.	69.	87.	16:34	65.	4: 7	74.
24	68.	72.	65.	77.	15:16	60.	5:43	73.
25	68.	73.	62.	81.	16:56	52.	5: 7	75.
26	73.	78.	68.	86.	14:32	61.	2:48	80.
27	79.	83.	74.	92.	15:20	67.	4:56	82.
28	76.	81.	71.	91.	12:40	66.	20:40	84.
29	68.	71.	66.	79.	10:37	63.	5:16	78.
30	69.	70.	68.	76.	15:54	65.	2:43	76.
31	78.	81.	74.	88.	16:11	66.	2:18	79.
MEAN	71.	75.	67.					73.
STANDARD DEVIATION	6.5	7.4	6.2					3.9

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: LSU FIELD HOUSE
BATON ROUGE, LOUISIANA

REPORT PERIOD: 79/ 5
SITE NUMBER: 162

LATITUDE: 30.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.20 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 64 FEET

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME HR:MN	VALUE	TIME HR:MN	
1	74.	80.	68.	88.	13:48	62.	5:21	
2	76.	80.	72.	88.	13:22	68.	0:33	
3	79.	82.	76.	90.	13: 3	74.	0:34	
4	69.	68.	70.	76.	7:53	63.	8:25	
5	68.	74.	62.	84.	13:34	56.	23:56	
6	69.	76.	64.	86.	16:12	53.	4:17	
7	79.	86.	73.	93.	13:51	69.	0:54	
8	79.	85.	73.	95.	14: 6	67.	5:34	
9	79.	86.	73.	94.	14:49	67.	3: 5	
10	83.	89.	77.	96.	15:20	73.	0:51	
11	81.	87.	75.	97.	12:28	71.	23:56	
12	75.	82.	68.	93.	14:46	64.	23:44	
13	68.	72.	64.	80.	14:35	60.	23:44	
14	72.	80.	64.	89.	15:50	55.	3: 2	
15	78.	87.	70.	94.	13:57	62.	2:20	
16	81.	89.	74.	97.	14:45	66.	5:41	
17	80.	88.	72.	98.	14: 8	66.	4:53	
18	77.	86.	69.	94.	12:38	63.	5:16	
19	77.	84.	70.	90.	12:38	66.	5:10	
20	78.	85.	71.	92.	14:11	65.	5:29	
21	79.	86.	72.	93.	14:38	69.	4:57	
22	71.	73.	69.	80.	7:53	67.	14:23	
23	76.	81.	71.	88.	13:50	68.	1:29	
24	74.	81.	68.	86.	11:56	64.	4: 9	
25	70.	77.	62.	84.	14:28	54.	5:14	
26	70.	79.	62.	86.	14:34	50.	4:58	
27	74.	81.	67.	89.	14:57	60.	4:58	
28	77.	84.	71.	90.	13:11	65.	4:44	
29	74.	79.	68.	90.	11: 0	65.	23:37	
30	67.	67.	67.	75.	12:49	65.	8:17	
31	77.	83.	72.	91.	12:46	65.	1: 5	
MEAN	75.	81.	70.					
STANDARD DEVIATION	4.4	5.8	4.1					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: LSU FIELD HOUSE
BATON ROUGE, LOUISIANA

REPORT PERIOD: 79/ 5
SITE NUMBER: 162

LATITUDE: 30.70 DEG NORTH
LONGITUDE: 91.20 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 40 DEG

TIME ZONE: CENTRAL
ALTITUDE: 64 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	1449.	N.A.	N.A.	290.	11:29	2914.	50.
2	1162.	N.A.	N.A.	280.	10:15	2905.	40.
3	990.	N.A.	N.A.	287.	11:53	2895.	34.
4	238.	N.A.	N.A.	91.	14:38	2884.	8.
5	1597.	N.A.	N.A.	283.	12:36	2873.	56.
6	1528.	N.A.	N.A.	280.	11:56	2863.	53.
7	1725.	N.A.	N.A.	306.	11:27	2852.	60.
8	1555.	N.A.	N.A.	303.	11:15	2845.	55.
9	1714.	N.A.	N.A.	283.	11:42	2835.	60.
10	1541.	N.A.	N.A.	261.	11:57	2825.	55.
11	1470.	N.A.	N.A.	277.	12:22	2815.	52.
12	1184.	N.A.	N.A.	257.	12:44	2805.	42.
13	1245.	N.A.	N.A.	313.	12:22	2795.	45.
14	1848.	N.A.	N.A.	270.	11:29	2786.	66.
15	1929.	N.A.	N.A.	264.	11:33	2779.	69.
16	1722.	N.A.	N.A.	274.	11:55	2770.	62.
17	1772.	N.A.	N.A.	261.	11:28	2761.	64.
18	1759.	N.A.	N.A.	270.	12:12	2755.	64.
19	1632.	N.A.	N.A.	267.	11:34	2747.	59.
20	1662.	N.A.	N.A.	257.	12:25	2738.	61.
21	1496.	N.A.	N.A.	270.	11:47	2730.	55.
22	202.	N.A.	N.A.	114.	7:53	2722.	7.
23	1457.	N.A.	N.A.	316.	12: 9	2714.	54.
24	1757.	N.A.	N.A.	261.	12: 1	2706.	65.
25	1739.	N.A.	N.A.	277.	11:32	2699.	64.
26	1783.	N.A.	N.A.	264.	11:43	2694.	66.
27	1593.	N.A.	N.A.	287.	11:45	2687.	59.
28	1415.	N.A.	N.A.	277.	11:13	2681.	53.
29	884.	N.A.	N.A.	241.	10:23	2674.	33.
30	168.	N.A.	N.A.	134.	12:33	2668.	6.
31	1052.	N.A.	N.A.	215.	9:45	2662.	40.
MEAN	1396.	N.A.	N.A.			2777.	
STANDARD DEVIATION	473.	N.A.	N.A.			77.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: LSU FIELD HOUSE
BATON ROUGE, LOUISIANA

REPORT PERIOD: 79/ 5
SITE NUMBER: 162

LATITUDE: 30.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.20 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 64 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.	10.	*	8: 7
2	317.	3.	318.	3.	11.	329.	14:15
3	320.	3.	325.	3.	9.	320.	13:19
4	*	1.	*	2.	7.	*	13:24
5	*	0.	*	1.	4.	*	15:32
6	*	1.	*	1.	6.	*	12:28
7	*	2.	*	3.	8.	*	9:41
8	*	1.	*	2.	9.	*	9:34
9	*	1.	*	2.	8.	*	14: 6
10	323.	2.	325.	3.	7.	276.	16: 8
11	*	2.	*	2.	12.	*	16:44
12	*	0.	*	1.	10.	*	16:48
13	*	0.	*	1.	3.	*	12:59
14	*	1.	*	1.	6.	*	11:24
15	*	1.	*	1.	4.	*	10: 2
16	*	1.	*	1.	5.	*	13: 4
17	*	1.	*	1.	6.	*	3:49
18	*	2.	*	2.	8.	*	17:10
19	7.	2.	8.	3.	9.	7.	14:13
20	*	2.	*	3.	8.	*	19: 5
21	*	1.	*	2.	8.	*	16:25
22	*	1.	*	2.	9.	*	13: 8
23	*	1.	*	1.	6.	*	11:37
24	*	1.	*	1.	6.	*	15:35
25	*	1.	*	1.	7.	*	9:14
26	*	1.	*	2.	8.	*	16:47
27	20.	2.	25.	3.	12.	1.	11:51
28	*	2.	*	3.	9.	*	14:57
29	359.	2.	9.	4.	15.	55.	15: 0
30	*	2.	*	2.	10.	*	6:14
31	*	1.	*	1.	8.	*	9:55
MEAN	225.	1.	168.	2.			
STANDARD DEVIATION	164.1	0.7	169.3	0.9			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: LSU FIELD HOUSE
BATON ROUGE, LOUISIANA

REPORT PERIOD: 79/ 5
SITE NUMBER: 162

LATITUDE: 30.70 DEG NORTH AZIMUTH: 0 DEG TIME ZONE: CENTRAL
LONGITUDE: 91.20 DEG WEST PYRANOMETER TILT: 40 DEG ALTITUDE: 64 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	18	6	0	0	0	0	0	0	0
3	18	6	0	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	24	0	0	0	0	0	0	0	0
7	24	0	0	0	0	0	0	0	0
8	24	0	0	0	0	0	0	0	0
9	24	0	0	0	0	0	0	0	0
10	22	2	0	0	0	0	0	0	0
11	23	1	0	0	0	0	0	0	0
12	24	0	0	0	0	0	0	0	0
13	24	0	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	24	0	0	0	0	0	0	0	0
16	24	0	0	0	0	0	0	0	0
17	24	0	0	0	0	0	0	0	0
18	22	2	0	0	0	0	0	0	0
19	21	3	0	0	0	0	0	0	0
20	23	1	0	0	0	0	0	0	0
21	24	0	0	0	0	0	0	0	0
22	22	2	0	0	0	0	0	0	0
23	24	0	0	0	0	0	0	0	0
24	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	21	3	0	0	0	0	0	0	0
29	20	4	0	0	0	0	0	0	0
30	23	1	0	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	22.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	707	36	0	0	0	0	0	0	1

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: RACIAN
AUSTIN, TEXAS

REPORT PERIOD: 79/ 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

TEMPERATURES IN DEGREES F

DAY	AVERAGE TEMP	DAYTIME TEMP	NIGHTTIME TEMP	MAX TEMPERATURE		MIN TEMPERATURE		INLET WATER TEMPERATURE
				VALUE	TIME FR:MN	VALUE	TIME FR:MN	
1	69.	71.	67.	81.	12:54	61.	9:26	N.A.
2	72.	73.	71.	77.	14:35	68.	4: 6	N.A.
3	72.	76.	67.	81.	14:16	58.	23:52	N.A.
4	57.	58.	55.	64.	14: 6	51.	6:43	N.A.
5	64.	68.	59.	78.	14:47	50.	3:58	N.A.
6	68.	73.	63.	83.	15:51	55.	4:50	N.A.
7	74.	78.	69.	87.	14:57	63.	2:57	N.A.
8	76.	79.	73.	87.	15:31	70.	5:55	N.A.
9	75.	77.	73.	82.	15:20	69.	5: 1	N.A.
10	79.	82.	76.	89.	13:10	73.	0:38	N.A.
11	57.	55.	59.	76.	0:30	52.	13: 2	N.A.
12	61.	67.	56.	75.	15:28	47.	5:39	N.A.
13	67.	74.	60.	81.	14:29	50.	5: 9	N.A.
14	71.	80.	63.	87.	14:38	53.	4:46	N.A.
15	77.	80.	71.	86.	15:47	59.	5:34	N.A.
16	73.	79.	68.	85.	15:58	59.	3:48	N.A.
17	72.	76.	68.	82.	16: 3	61.	5:12	N.A.
18	75.	79.	71.	88.	16:12	65.	2:36	N.A.
19	76.	79.	73.	85.	14: 0	69.	3:35	N.A.
20	76.	79.	74.	85.	15:31	71.	5:55	N.A.
21	71.	74.	68.	81.	12:44	63.	23:40	N.A.
22	70.	73.	66.	87.	14:30	61.	4:43	N.A.
23	72.	77.	68.	83.	15:28	62.	5:15	N.A.
24	72.	77.	68.	83.	15:59	64.	5:25	N.A.
25	69.	73.	65.	79.	15:17	59.	5:20	N.A.
26	71.	76.	66.	85.	14:13	58.	4:37	N.A.
27	74.	76.	72.	84.	16:12	66.	4:59	N.A.
28	71.	76.	66.	85.	14:20	63.	19:56	N.A.
29	75.	78.	72.	90.	15:42	64.	0:52	N.A.
30	76.	80.	72.	92.	13:50	65.	15:58	N.A.
31	78.	84.	72.	93.	15:44	65.	4: 6	N.A.
MEAN	71.	75.	67.					N.A.
STANDARD DEVIATION	5.5	6.1	5.4					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: RADIAN
AUSTIN, TEXAS

REPORT PERIOD: 79/ 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	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
1	1100.	650.	450.	363.	12:54	3168.	35.
2	256.	215.	41.	69.	10: 8	3162.	8.
3	423.	352.	71.	152.	14: 5	3156.	13.
4	1690.	704.	986.	353.	14:11	3150.	54.
5	2226.	283.	1943.	311.	12:28	3143.	71.
6	2184.	435.	1749.	311.	12:39	3137.	70.
7	2026.	481.	1546.	304.	12:38	3131.	65.
8	1066.	717.	349.	266.	13:44	3125.	34.
9	555.	474.	81.	121.	12: 8	3119.	18.
10	895.	648.	248.	280.	12:22	3113.	29.
11	393.	298.	96.	142.	16:24	3107.	13.
12	2235.	247.	1988.	311.	12:16	3101.	72.
13	2209.	286.	1923.	308.	12:32	3095.	71.
14	2151.	284.	1867.	301.	12:51	3089.	70.
15	2157.	313.	1844.	311.	12:46	3084.	70.
16	1801.	679.	1123.	308.	13:40	3078.	59.
17	1185.	644.	540.	284.	14:32	3072.	39.
18	1635.	672.	963.	329.	12:12	3067.	53.
19	1332.	937.	395.	270.	13:18	3061.	44.
20	1040.	749.	290.	246.	12:35	3056.	34.
21	532.	433.	98.	183.	12:38	3051.	17.
22	1144.	652.	493.	315.	12: 1	3045.	38.
23	1871.	632.	1239.	325.	12:16	3040.	62.
24	2044.	520.	1524.	287.	12:36	3036.	67.
25	2032.	724.	1309.	294.	13: 4	3031.	67.
26	1378.	880.	498.	315.	13:20	3026.	46.
27	650.	542.	108.	159.	10:13	3021.	22.
28	1214.	764.	449.	280.	13:32	3017.	40.
29	1418.	755.	663.	287.	12:46	3013.	47.
30	1181.	595.	586.	287.	12: 4	3009.	39.
31	1609.	995.	614.	273.	12:11	3005.	54.
MEAN	1407.	566.	841.			3081.	
STANDARD DEVIATION	623.	212.	668.			50.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: RADIANT
AUSTIN, TEXAS

REPORT PERIOD: 7/ 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	143.	9.	127.	8.	24.	161.	22:46
2	163.	12.	169.	12.	28.	157.	0:16
3	*	13.	*	13.	43.	*	19:46
4	333.	20.	332.	23.	44.	323.	9:39
5	3.	7.	17.	7.	20.	31.	9: 2
6	171.	12.	174.	16.	33.	173.	12:29
7	174.	17.	176.	19.	34.	174.	0:43
8	166.	17.	167.	18.	34.	182.	1:39
9	143.	13.	141.	14.	29.	138.	13:55
10	163.	12.	163.	13.	26.	177.	2:46
11	344.	17.	343.	19.	43.	351.	16:14
12	356.	14.	2.	16.	28.	350.	14:45
13	17.	4.	20.	6.	19.	13.	14:50
14	152.	4.	158.	6.	18.	210.	9:39
15	154.	8.	156.	10.	28.	144.	11:26
16	152.	8.	151.	11.	23.	152.	11:58
17	150.	8.	143.	10.	22.	114.	14:37
18	175.	14.	175.	15.	29.	179.	21:16
19	180.	15.	183.	17.	32.	176.	13:39
20	174.	13.	172.	14.	28.	176.	13:12
21	154.	10.	160.	10.	29.	175.	12:54
22	324.	8.	319.	8.	24.	23.	2:19
23	343.	11.	350.	15.	30.	17.	8:27
24	17.	10.	20.	12.	24.	26.	9:35
25	40.	7.	44.	10.	21.	37.	9: 4
26	166.	9.	168.	10.	27.	157.	21:31
27	170.	10.	172.	9.	24.	178.	22:31
28	167.	11.	174.	12.	35.	181.	0:23
29	137.	10.	129.	11.	31.	154.	17:29
30	180.	10.	150.	14.	47.	317.	15:48
31	54.	4.	98.	3.	16.	73.	18:40
MEAN	169.	11.	160.	12.			
STANDARD DEVIATION	93.8	3.9	89.4	4.4			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: RADIAN
AUSTIN, TEXASREPORT PERIOD: 79/ 5
SITE NUMBER: 2LATITUDE: 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 HUMIDITY VALUE	HUMIDITY TIME HR:MN	MINIMUM HUMIDITY VALUE	HUMIDITY TIME HR:MN
1	90.	84.	97.	100.	2:52	60.	12: 1
2	98.	97.	100.	100.	0: 1	86.	14:46
3	93.	92.	94.	100.	0: 1	78.	14:26
4	76.	72.	79.	100.	6:22	59.	14:11
5	65.	55.	74.	89.	23:57	39.	15:46
6	74.	62.	85.	100.	1:54	37.	16:13
7	75.	65.	86.	100.	5:53	46.	14:35
8	78.	70.	86.	96.	6: 0	53.	15:36
9	87.	82.	92.	100.	5:12	70.	15:25
10	84.	74.	94.	100.	0: 3	59.	13:15
11	88.	93.	83.	100.	0:30	62.	18:22
12	56.	44.	69.	82.	4: 3	26.	14:24
13	53.	39.	66.	86.	4: 5	23.	17: 4
14	53.	37.	65.	50.	4:51	25.	13:18
15	45.	40.	55.	92.	5:39	27.	15:20
16	58.	50.	67.	85.	4: 4	39.	13:40
17	62.	56.	68.	90.	5:44	41.	17:49
18	73.	63.	84.	100.	2:47	43.	15:51
19	75.	64.	85.	99.	3:30	54.	15: 4
20	76.	71.	81.	94.	7: 4	52.	14:16
21	92.	88.	96.	100.	5:10	69.	10:20
22	79.	70.	89.	100.	0: 0	43.	14:30
23	71.	60.	82.	100.	5:20	44.	17:15
24	63.	54.	72.	85.	4:37	45.	17:35
25	51.	41.	63.	77.	3:44	29.	11:17
26	66.	60.	73.	86.	4:53	47.	14:13
27	82.	79.	84.	100.	4:59	62.	16: 7
28	85.	75.	96.	100.	5:27	58.	14:25
29	86.	79.	93.	100.	0: 4	53.	16: 4
30	87.	79.	96.	100.	0:46	43.	15:42
31	74.	59.	89.	100.	0: 4	45.	11:39

MEAN 74. 66. 82.

STANDARD DEVIATION 14. 17. 12.

ENVIRONMENTAL SUMMARY REPORT

PAGE 5

SITE: RACIAN
AUSTIN, TEXAS

REPORT PERIOD: 79/ 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

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	1	17	3	0	0	0	0	0
2	0	1	18	5	0	0	0	0	0
3	0	4	9	3	8	0	0	0	0
4	0	0	5	6	9	4	0	0	0
5	2	12	10	0	0	0	0	0	0
6	1	5	4	10	4	0	0	0	0
7	0	0	2	16	6	0	0	0	0
8	0	0	2	18	4	0	0	0	0
9	0	0	12	12	0	0	0	0	0
10	0	1	13	10	0	0	0	0	0
11	0	0	6	11	6	1	0	0	0
12	1	5	3	12	3	0	0	0	0
13	14	7	3	0	0	0	0	0	0
14	11	8	4	0	0	0	0	0	1
15	3	7	8	2	0	0	0	0	4
16	6	5	7	6	0	0	0	0	0
17	5	7	8	4	0	0	0	0	0
18	0	2	6	15	1	0	0	0	0
19	0	0	4	20	0	0	0	0	0
20	0	0	13	10	1	0	0	0	0
21	2	6	11	5	0	0	0	0	0
22	2	13	8	1	0	0	0	0	0
23	5	3	6	9	1	0	0	0	0
24	1	5	13	5	0	0	0	0	0
25	5	7	12	0	0	0	0	0	0
26	6	1	9	8	0	0	0	0	0
27	2	6	11	4	1	0	0	0	0
28	4	7	4	9	0	0	0	0	0
29	2	8	7	6	1	0	0	0	0
30	4	6	7	5	2	0	0	0	0
31	12	10	1	0	0	0	0	0	1
AVERAGE	2.9	4.4	7.8	6.9	1.5	0.2	0.0	0.0	0.2
TOTAL	91	137	243	215	47	5	0	0	6

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: RANCOLPH AIR FORCE BASE
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 25

LATITUDE: 29.50 DEG NORTH
LONGITUDE: 98.30 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 15 DEG

TIME ZONE: CENTRAL
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	68.	68.	67.	71.	12:48	65.	10:45	
2	73.	74.	72.	77.	16:49	69.	0: 6	
3	74.	77.	70.	82.	16:33	62.	23:56	
4	61.	64.	57.	72.	14:47	51.	23:51	
5	64.	70.	57.	84.	16: 1	48.	4:39	
6	69.	74.	63.	85.	17: 5	54.	3:23	
7	74.	78.	70.	90.	16:46	61.	5:50	
8	77.	80.	73.	87.	15:55	70.	4:27	
9	77.	79.	74.	84.	15:37	72.	3:43	
10	79.	81.	77.	88.	16:26	73.	5:41	
11	64.	61.	66.	78.	0:10	56.	11:26	
12	65.	71.	58.	81.	15: 4	49.	5:34	
13	69.	75.	63.	85.	15: 9	54.	5:22	
14	72.	80.	64.	89.	15:15	53.	4:41	
15	72.	78.	65.	86.	15:18	55.	5:42	
16	72.	77.	66.	86.	15:50	57.	4:43	
17	73.	77.	69.	85.	14:41	63.	4:49	
18	75.	80.	70.	90.	14: 9	66.	1:32	
19	76.	80.	72.	88.	15:22	67.	1:42	
20	76.	79.	73.	85.	15:11	70.	5:51	
21	76.	79.	73.	86.	15:52	65.	23:57	
22	74.	79.	67.	92.	17:24	60.	0:13	
23	75.	80.	69.	90.	16:20	62.	5:30	
24	75.	81.	69.	90.	14:55	62.	5:56	
25	71.	75.	66.	83.	15:41	60.	5:49	
26	72.	77.	67.	86.	15:20	58.	5: 6	
27	75.	79.	72.	87.	14:59	64.	23:58	
28	74.	78.	70.	86.	13: 8	63.	0:14	
29	81.	84.	77.	93.	17:22	73.	0: 4	
30	80.	85.	73.	96.	17: 9	66.	18:40	
31	76.	80.	73.	90.	14: 3	64.	4:54	
MEAN	73.	77.	68.					
STANDARD DEVIATION	4.8	5.2	5.2					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: RANCOLPH AIR FORCE BASE
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 25

LATITUDE: 29.50 DEG NORTH
LONGITUDE: 98.30 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 15 DEG

TIME ZONE: CENTRAL
ALTITUDE: 790 FEET

INSCLATICN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSCLATICN BTU/FT2	MAXIMUM INSCLATICN VALUE BTU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATICN BTU/FT2	TTL INS ----- EXT INS PERCENT
1	308.	N.A.	N.A.	161.	11: 6	3409.	9.
2	309.	N.A.	N.A.	102.	12: 1	3411.	9.
3	423.	N.A.	N.A.	190.	11:51	3413.	12.
4	2266.	N.A.	N.A.	369.	12:44	3412.	66.
5	2313.	N.A.	N.A.	328.	12:23	3413.	66.
6	2336.	N.A.	N.A.	328.	10:35	3412.	68.
7	2117.	N.A.	N.A.	328.	10:27	3413.	62.
8	1149.	N.A.	N.A.	395.	13:20	3414.	34.
9	698.	N.A.	N.A.	176.	16: 4	3415.	20.
10	781.	N.A.	N.A.	116.	11:17	3414.	23.
11	1022.	N.A.	N.A.	222.	13: 8	3415.	30.
12	2342.	N.A.	N.A.	328.	11:37	3415.	69.
13	2412.	N.A.	N.A.	328.	12: 8	3416.	71.
14	2404.	N.A.	N.A.	328.	12: 9	3414.	70.
15	2461.	N.A.	N.A.	340.	12:11	3415.	72.
16	2051.	N.A.	N.A.	363.	11:34	3412.	60.
17	1569.	N.A.	N.A.	351.	12:17	3413.	46.
18	1648.	N.A.	N.A.	364.	12:33	3413.	48.
19	1349.	N.A.	N.A.	395.	12:43	3413.	40.
20	1148.	N.A.	N.A.	302.	13: 8	3414.	34.
21	923.	N.A.	N.A.	378.	12:40	3411.	27.
22	1763.	N.A.	N.A.	372.	12:36	3411.	52.
23	1988.	N.A.	N.A.	398.	12:36	3411.	56.
24	2238.	N.A.	N.A.	313.	12:31	3411.	66.
25	2002.	N.A.	N.A.	322.	12:18	3411.	59.
26	1589.	N.A.	N.A.	363.	11:57	3408.	47.
27	814.	N.A.	N.A.	399.	14:22	3408.	24.
28	1092.	N.A.	N.A.	372.	12: 9	3408.	32.
29	1389.	N.A.	N.A.	363.	12:44	3405.	41.
30	1474.	N.A.	N.A.	340.	11:44	3405.	43.
31	1575.	N.A.	N.A.	398.	12:32	3405.	46.
MEAN	1547.	N.A.	N.A.			3412.	
STANDARD DEVIATION	674.	N.A.	N.A.			3.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: RANDOLPH AIR FORCE BASE
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 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

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.	12.	*	2:45
2	*	2.	*	3.	15.	*	11:13
3	*	3.	*	3.	21.	*	21: 0
4	*	8.	*	10.	25.	*	0:49
5	*	0.	*	0.	7.	*	9:27
6	*	3.	*	5.	15.	*	15:13
7	*	4.	*	5.	17.	*	9:39
8	*	4.	*	5.	19.	*	10:56
9	*	2.	*	3.	13.	*	15:48
10	*	1.	*	0.	13.	*	19:17
11	*	8.	*	12.	28.	*	12:57
12	*	4.	*	5.	19.	*	0:14
13	*	1.	*	1.	9.	*	13:38
14	*	0.	*	1.	12.	*	10:22
15	*	2.	*	3.	16.	*	17:21
16	*	2.	*	3.	16.	*	12: 6
17	*	1.	*	2.	13.	*	16:17
18	*	3.	*	6.	16.	*	9:31
19	*	4.	*	5.	16.	*	11: 7
20	*	5.	*	5.	20.	*	9:30
21	*	3.	*	4.	22.	*	14:43
22	*	1.	*	1.	36.	*	1:17
23	*	2.	*	4.	14.	*	9:51
24	*	1.	*	1.	13.	*	8:10
25	*	2.	*	3.	17.	*	11:57
26	*	2.	*	3.	14.	*	17:22
27	*	3.	*	5.	19.	*	9:12
28	*	3.	*	4.	39.	*	0: 9
29	*	3.	*	3.	16.	*	23:56
30	*	3.	*	4.	16.	*	18:29
31	*	0.	*	0.	9.	*	9:47
MEAN	0.	3.	0.	4.			
STANDARD DEVIATION	*****	2.0	*****	2.6			

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: RANDOLPH AIR FORCE BASE
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 25

LATITUDE: 29.50 DEG NORTH
LONGITUDE: 98.30 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 15 DEG

TIME ZONE: CENTRAL
ALTITUDE: 750 FEET

WIND: NUMBER OF HOURS IN EACH VELOCITY INTERVAL

CAY	0-3 MPH	4-7 MPH	8-12 MPH	13-18 MPH	19-24 MPH	25-31 MPH	32-38 MPH	ABOVE 38	MISSING HOURS
1	17	7	0	0	0	0	0	0	0
2	16	6	0	0	0	0	0	0	2
3	15	4	4	1	0	0	0	0	0
4	5	6	11	2	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	13	10	1	0	0	0	0	0	0
7	12	10	2	0	0	0	0	0	0
8	10	13	1	0	0	0	0	0	0
9	19	4	1	0	0	0	0	0	0
10	23	1	0	0	0	0	0	0	0
11	5	3	12	4	0	0	0	0	0
12	11	3	5	0	0	0	0	0	0
13	23	1	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	19	5	0	0	0	0	0	0	0
16	18	6	0	0	0	0	0	0	0
17	21	8	0	0	0	0	0	0	0
18	13	8	0	0	0	0	0	0	0
19	13	8	0	0	0	0	0	0	0
20	12	6	5	1	0	0	0	0	0
21	17	1	4	0	0	0	0	0	0
22	23	1	0	0	0	0	0	0	0
23	19	5	0	0	0	0	0	0	0
24	24	0	0	0	0	0	0	0	0
25	19	5	0	0	0	0	0	0	0
26	20	4	0	0	0	0	0	0	0
27	16	4	4	0	0	0	0	0	0
28	15	2	5	0	0	0	0	0	0
29	15	6	5	0	0	0	0	0	0
30	15	6	5	0	0	0	0	0	0
31	23	0	0	0	0	0	0	0	1
AVERAGE	16.9	4.7	2.1	0.3	0.0	0.0	0.0	0.0	0.1
TOTAL	523	145	65	8	0	0	0	0	3

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 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	68.	70.	67.	77.	13:26	65.	4:17	74.
2	72.	73.	71.	78.	16:11	68.	0: 1	74.
3	73.	76.	70.	80.	16:40	61.	23: 9	75.
4	60.	62.	57.	69.	14:44	51.	23:48	74.
5	62.	67.	58.	79.	16:10	47.	4:15	74.
6	68.	72.	64.	82.	16:53	53.	5:19	74.
7	73.	76.	70.	86.	17: 2	61.	4:41	75.
8	75.	78.	73.	83.	15:47	70.	4:28	75.
9	76.	77.	74.	83.	15:15	70.	3:16	75.
10	78.	79.	76.	83.	16: 8	73.	5:50	75.
11	63.	61.	66.	76.	0:25	54.	11:40	75.
12	64.	69.	59.	77.	16:24	50.	4:50	75.
13	68.	73.	64.	81.	15:46	54.	5:54	77.
14	71.	76.	65.	84.	16:19	55.	5:16	79.
15	70.	75.	66.	82.	16: 8	57.	6: 0	80.
16	71.	75.	67.	81.	15:10	59.	4:51	79.
17	73.	76.	70.	82.	15:54	65.	4:15	79.
18	73.	77.	70.	85.	15:38	64.	3:23	79.
19	75.	78.	72.	84.	14:55	67.	1:14	79.
20	75.	77.	73.	82.	15:34	68.	6:41	79.
21	76.	78.	73.	84.	16:21	67.	23:59	77.
22	72.	77.	67.	85.	17:23	59.	1: 9	78.
23	74.	77.	70.	85.	16:54	61.	5:42	79.
24	74.	78.	69.	86.	15:25	62.	3:50	80.
25	70.	73.	67.	80.	15:10	61.	5:18	79.
26	71.	75.	68.	82.	15:37	61.	4:46	80.
27	74.	77.	71.	85.	15:26	63.	23:29	79.
28	74.	77.	71.	84.	14: 4	62.	0: 7	79.
29	79.	82.	77.	89.	15:53	73.	5:17	78.
30	79.	84.	74.	93.	16:59	68.	22:51	81.
31	76.	78.	73.	86.	14: 7	65.	4:59	81.
MEAN	72.	75.	69.					77.
STANDARD DEVIATION	4.7	4.9	4.9					2.4

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 3

LATITUDE: 29.97 DEG NORTH
LONGITUDE: 98.48 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 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	406.	1.:	405.	150.	12:38	3168.	13.
2	362.	1.:	360.	100.	14:19	3161.	11.
3	359.	1.:	357.	110.	11:36	3155.	11.
4	2060.	1.:	2075.	326.	12:58	3149.	66.
5	2076.	1.:	2076.	302.	12: 9	3143.	66.
6	2203.	1.:	2202.	306.	12:21	3137.	70.
7	1961.	1.:	1961.	302.	12:25	3130.	63.
8	1175.	1.:	1175.	253.	13:32	3124.	38.
9	760.	1.:	755.	216.	14:48	3118.	24.
10	864.	1.:	864.	209.	11:20	3112.	28.
11	1224.	1.:	1222.	329.	13:32	3106.	39.
12	2232.	1.:	2231.	306.	12: 8	3100.	72.
13	2212.	1.:	2211.	309.	12:18	3094.	71.
14	2175.	1.:	2175.	306.	12:24	3088.	70.
15	2246.	1.:	2246.	312.	12:35	3083.	73.
16	2032.	1.:	2032.	316.	12:35	3077.	66.
17	1856.	1.:	1856.	326.	13: 4	3071.	60.
18	1488.	1.:	1487.	336.	11:59	3066.	49.
19	1331.	1.:	1331.	289.	11: 6	3060.	44.
20	1062.	1.:	1060.	213.	12:43	3055.	35.
21	974.	1.:	973.	276.	11:49	3050.	32.
22	1825.	1.:	1826.	352.	13:28	3045.	60.
23	1758.	1.:	1757.	346.	12:38	3039.	59.
24	2037.	1.:	2037.	292.	12:39	3035.	67.
25	1884.	1.:	1883.	292.	13:29	3030.	62.
26	1613.	1.:	1613.	326.	12:30	3025.	53.
27	833.	1.:	831.	216.	15:16	3020.	28.
28	977.	1.:	976.	286.	13:32	3016.	32.
29	1390.	1.:	1390.	299.	13:19	3012.	46.
30	1466.	1.:	1465.	299.	13: 5	3007.	50.
31	1361.	1.:	1360.	319.	13:19	3003.	45.
MEAN	1454.		1453.			3080.	
STANDARD DEVIATION	556.		556.			50.	

1. INSTRUMENTATION ERROR

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 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	85.	7.	96.	6.	19.	69.	21:15
2	67.	5.	62.	8.	20.	91.	20:48
3	111.	8.	76.	7.	20.	194.	21:28
4	211.	11.	218.	12.	22.	231.	8:42
5	*	3.	*	4.	12.	*	18:7
6	57.	6.	48.	6.	18.	75.	11:49
7	59.	5.	53.	5.	20.	74.	14:28
8	67.	11.	66.	12.	22.	72.	16:56
9	74.	11.	71.	12.	22.	90.	17:39
10	71.	7.	66.	7.	16.	68.	1:29
11	200.	11.	204.	15.	32.	202.	17:0
12	194.	8.	198.	9.	17.	210.	0:50
13	159.	5.	153.	5.	14.	108.	16:18
14	86.	4.	72.	4.	12.	99.	16:3
15	85.	6.	86.	7.	17.	137.	15:42
16	73.	7.	74.	5.	21.	88.	12:24
17	75.	7.	72.	8.	18.	73.	13:30
18	60.	8.	50.	8.	17.	59.	14:28
19	58.	8.	62.	8.	15.	71.	18:41
20	57.	5.	61.	9.	23.	93.	18:25
21	61.	5.	52.	5.	20.	55.	11:1
22	242.	4.	266.	4.	13.	287.	13:17
23	202.	5.	205.	7.	16.	191.	10:46
24	150.	6.	139.	6.	14.	115.	11:9
25	149.	7.	146.	5.	20.	153.	12:14
26	75.	8.	77.	9.	20.	59.	21:40
27	61.	8.	59.	8.	36.	304.	23:35
28	53.	6.	29.	6.	20.	30.	15:13
29	59.	8.	54.	8.	22.	63.	21:3
30	55.	6.	45.	6.	16.	182.	21:15
31	127.	6.	126.	7.	12.	130.	17:3
MEAN	103.	7.	99.	8.			
STANDARD DEVIATION	57.0	2.1	62.2	2.4			

ENVIRONMENTAL SUMMARY REPORT

PAGE 5

SITE: TRINITY UNIVERSITY
SAN ANTONIO, TEXAS

REPORT PERIOD: 79/ 5
SITE NUMBER: 3

LATITUDE: 29.97 DEG NORTH
LONGITUDE: 98.48 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: CENTRAL
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	5	8	11	0	0	0	0	0	0
2	0	8	16	0	0	0	0	0	0
3	2	10	9	0	0	0	0	0	0
4	2	3	17	2	0	0	0	0	0
5	15	7	2	0	0	0	0	0	0
6	7	10	7	0	0	0	0	0	0
7	2	7	14	1	0	0	0	0	0
8	0	0	18	3	0	0	0	0	0
9	0	1	20	3	0	0	0	0	0
10	2	11	11	0	0	0	0	0	0
11	3	2	11	0	0	0	0	0	0
12	0	12	12	0	0	0	0	0	0
13	0	14	1	0	0	0	0	0	0
14	12	12	0	0	0	0	0	0	0
15	10	5	9	0	0	0	0	0	0
16	3	4	8	4	0	0	0	0	0
17	5	6	11	0	0	0	0	0	2
18	0	12	12	0	0	0	0	0	0
19	1	10	12	1	0	0	0	0	0
20	0	14	8	2	0	0	0	0	0
21	0	12	11	1	0	0	0	0	0
22	17	7	0	0	0	0	0	0	0
23	9	13	2	0	0	0	0	0	0
24	2	19	3	0	0	0	0	0	0
25	4	7	13	0	0	0	0	0	0
26	7	2	14	1	0	0	0	0	0
27	0	14	10	0	0	0	0	0	0
28	5	12	7	0	0	0	0	0	0
29	2	11	11	0	0	0	0	0	0
30	7	15	2	0	0	0	0	0	0
31	3	18	2	0	0	0	0	0	1
AVERAGE	4.5	9.2	9.2	1.0	0.0	0.0	0.0	0.0	0.1
TOTAL	139	266	284	32	0	0	0	0	3

ZONE 12

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: FLORIDA GAS
WINTER SPRINGS, FLORIDA

REPORT PERIOD: 7/ 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	73.	77.	68.	111.	14:44	67.	3:37	N.A.
2	76.	82.	66.	107.	16: 4	65.	23:48	N.A.
3	79.	90.	67.	122.	16:10	62.	5:41	N.A.
4	79.	89.	65.	123.	14:39	63.	5:19	N.A.
5	77.	85.	69.	123.	15: 3	65.	5:51	N.A.
6	78.	85.	70.	100.	14:26	68.	3:46	N.A.
7	73.	75.	71.	78.	10:51	69.	21:46	N.A.
8	72.	75.	70.	89.	11:58	69.	23:48	N.A.
9	76.	82.	70.	98.	13:52	68.	3:23	N.A.
10	78.	86.	70.	123.	15:30	66.	4:56	N.A.
11	77.	85.	65.	123.	14:50	67.	5: 9	N.A.
12	77.	83.	70.	102.	14:17	65.	5: 3	N.A.
13	78.	84.	70.	102.	14:29	67.	5:36	N.A.
14	76.	81.	71.	89.	12:21	69.	23:55	N.A.
15	78.	83.	70.	96.	14:29	64.	5:20	N.A.
16	76.	82.	69.	94.	13:41	65.	5:40	N.A.
17	74.	81.	67.	88.	13:44	61.	22:57	N.A.
18	70.	79.	61.	93.	14:20	56.	23:45	N.A.
19	71.	81.	60.	97.	14:39	52.	5: 5	N.A.
20	75.	82.	66.	95.	16:20	55.	5:35	N.A.
21	78.	85.	70.	99.	15: 9	64.	5:11	N.A.
22	80.	86.	73.	98.	14:22	66.	5:23	N.A.
23	80.	86.	74.	97.	14:41	69.	5:26	N.A.
24	74.	77.	71.	88.	19:49	68.	23:40	N.A.
25	74.	80.	68.	89.	16:56	62.	22:52	N.A.
26	69.	76.	60.	93.	16:51	54.	5:12	N.A.
27	71.	80.	63.	95.	16:51	50.	5:33	N.A.
28	78.	85.	70.	98.	16:51	63.	5:33	N.A.
29	79.	85.	71.	100.	14:41	65.	5:42	N.A.
30	77.	84.	70.	98.	13:47	67.	15: 1	N.A.
31	81.	88.	73.	102.	14:43	68.	3:31	N.A.
MEAN	76.	83.	69.					N.A.
STANDARD DEVIATION	3.1	3.9	3.5					N.A.

INVALID DATA

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: FLORIDA GAS
WINTER SPRINGS, FLORIDA

REPORT PERIOD: 79/ 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

INSCLATION

DAY	TOTAL INSCLATION BTU/FT2	TOTAL DIFF INSCLATION BTU/FT2	TOTAL DIR INSCLATION BTU/FT2	MAXIMUM TOTAL INSCLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MN	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	648.	N.A.	N.A.	310.	14:12	3358.	19.
2	1269.	N.A.	N.A.	257.	12:58	3355.	32.
3	1566.	N.A.	N.A.	331.	12:58	3354.	47.
4	1639.	N.A.	N.A.	338.	10:55	3350.	49.
5	1601.	N.A.	N.A.	334.	11: 6	3349.	48.
6	1224.	N.A.	N.A.	264.	11:25	3348.	37.
7	263.	N.A.	N.A.	77.	14:50	3347.	8.
8	154.	N.A.	N.A.	91.	11:42	3346.	5.
9	1055.	N.A.	N.A.	327.	12:48	3345.	32.
10	1721.	N.A.	N.A.	338.	11:46	3341.	52.
11	1656.	N.A.	N.A.	345.	11:17	3339.	50.
12	1647.	N.A.	N.A.	348.	11:33	3338.	49.
13	1652.	N.A.	N.A.	313.	10:56	3336.	50.
14	1114.	N.A.	N.A.	306.	11: 1	3335.	33.
15	1601.	N.A.	N.A.	331.	13:36	3334.	48.
16	1612.	N.A.	N.A.	324.	13:51	3329.	42.
17	1596.	N.A.	N.A.	295.	13:33	3328.	42.
18	1802.	N.A.	N.A.	338.	13:21	3326.	54.
19	2037.	N.A.	N.A.	365.	13:40	3322.	61.
20	1513.	N.A.	N.A.	288.	10:34	3320.	52.
21	1631.	N.A.	N.A.	295.	11: 4	3319.	49.
22	1790.	N.A.	N.A.	285.	10:59	3317.	54.
23	1800.	N.A.	N.A.	313.	13:37	3315.	54.
24	743.	N.A.	N.A.	220.	12: 1	3314.	22.
25	1951.	N.A.	N.A.	313.	11: 4	3312.	60.
26	2135.	N.A.	N.A.	285.	10:32	3308.	65.
27	1951.	N.A.	N.A.	295.	13:46	3306.	59.
28	1955.	N.A.	N.A.	313.	10:59	3305.	60.
29	1757.	N.A.	N.A.	213.	11:45	3303.	53.
30	1456.	N.A.	N.A.	256.	11:55	3302.	44.
31	1990.	N.A.	N.A.	352.	12:14	3300.	60.
MEAN	1516.	N.A.	N.A.			3329.	
STANDARD DEVIATION	498.	N.A.	N.A.			18.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: FLORIDA GAS
WINTER SPRINGS, FLORIDA

REPORT PERIOD: 79/ 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 HUMIDITY VALUE	HUMIDITY TIME HR:MN	MINIMUM HUMIDITY VALUE	HUMIDITY TIME HR:MN
1	34.	34.	33.	44.	9:35	32.	4:25
2	34.	34.	34.	35.	4:58	33.	16:58
3	34.	36.	35.	43.	15:43	31.	17:57
4	31.	31.	31.	33.	6: 1	28.	16:41
5	32.	32.	32.	35.	9:35	29.	15:35
6	33.	32.	33.	35.	23:25	30.	15:35
7	36.	36.	35.	37.	13:56	34.	0: 7
8	37.	37.	37.	39.	14: 6	35.	0: 4
9	37.	37.	37.	41.	17:10	33.	17: 4
10	36.	35.	36.	39.	21:44	32.	16:40
11	36.	35.	37.	39.	0:50	30.	15:27
12	36.	36.	37.	39.	18:19	34.	12:42
13	37.	36.	38.	39.	22:51	34.	14: 8
14	37.	37.	36.	39.	0: 0	36.	9:46
15	37.	36.	37.	39.	1:31	35.	15:23
16	36.	35.	37.	39.	5:13	34.	16:20
17	34.	34.	34.	36.	1:56	32.	20:18
18	32.	31.	32.	33.	1:59	30.	12:28
19	30.	30.	31.	32.	7:34	27.	16:20
20	30.	30.	31.	32.	4:36	29.	9:35
21	32.	31.	32.	35.	23: 4	30.	8:55
22	33.	32.	33.	35.	0:13	30.	16:51
23	32.	32.	33.	34.	4:38	30.	17:22
24	36.	36.	35.	37.	6:58	33.	0: 2
25	32.	32.	32.	36.	5:16	27.	17:28
26	27.	27.	28.	30.	1:12	24.	15: 9
27	28.	27.	29.	31.	22:48	26.	13:12
28	30.	30.	31.	32.	23: 4	29.	12: 3
29	32.	31.	34.	36.	19:45	30.	8:54
30	35.	34.	35.	36.	16:37	33.	8:27
31	35.	34.	35.	36.	23:37	33.	12:14
MEAN	34.	33.	34.				
STANDARD DEVIATION	3.	3.	3.				

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: MATT CANNON
GAINESVILLE, FLORIDA

REPORT PERIOD: 7/ 5
SITE NUMBER: 163

LATITUDE: 29.40 DEG NORTH AZIMUTH: 0 DEG
LONGITUDE: 82.10 DEG WEST PYRANOMETER TILT: 45 DEG TIME ZONE: EASTERN
ALTIITUDE: 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	69.	71.	66.	78.	12:45	64.	23:57	75.
2	74.	83.	66.	91.	14:36	62.	5:22	76.
3	76.	84.	70.	95.	15:34	63.	5:26	76.
4	78.	85.	72.	94.	14:34	66.	3: 2	77.
5	77.	82.	72.	89.	13:14	68.	1: 4	78.
6	78.	85.	73.	92.	15:35	69.	5:43	78.
7	70.	71.	70.	74.	13:42	68.	22:51	76.
8	73.	75.	70.	86.	14:49	67.	1:26	77.
9	74.	77.	72.	92.	15:54	69.	5:51	76.
10	79.	86.	73.	96.	14:55	68.	1:51	77.
11	76.	83.	69.	95.	12:49	67.	23:56	78.
12	79.	87.	71.	97.	15:45	63.	6: 4	77.
13	76.	81.	71.	96.	12:11	68.	4: 6	78.
14	75.	80.	71.	89.	15:11	65.	23:27	77.
15	74.	82.	67.	91.	13:46	63.	2:55	77.
16	73.	81.	65.	89.	13:27	60.	5: 9	77.
17	70.	79.	63.	85.	10:42	58.	22:47	77.
18	69.	78.	61.	85.	14:49	54.	5:45	76.
19	72.	82.	63.	92.	15:42	50.	5:45	76.
20	75.	82.	69.	89.	14:28	61.	4:47	77.
21	78.	85.	71.	94.	13:57	66.	4:47	77.
22	79.	86.	73.	94.	14: 0	64.	6: 0	78.
23	78.	85.	71.	93.	15: 7	65.	5:15	79.
24	75.	79.	72.	87.	16:42	67.	6:51	79.
25	70.	73.	66.	82.	15:54	59.	23:59	77.
26	66.	73.	59.	83.	15:16	47.	4:58	76.
27	71.	80.	63.	89.	16: 3	49.	5:30	76.
28	73.	83.	65.	94.	16:41	57.	5:29	77.
29	77.	84.	69.	94.	15:28	58.	3:26	78.
30	76.	87.	67.	99.	13:55	64.	5:49	79.
31	77.	83.	71.	96.	13: 2	67.	1:23	78.
MEAN	74.	81.	68.					77.
STANDARD DEVIATION	3.5	4.5	3.8					1.0

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: MATT CANNON
GAINESVILLE, FLORIDAREPORT PERIOD: 79/ 5
SITE NUMBER: 163LATITUDE: 29.40 DEG NORTH
LONGITUDE: 82.10 DEG WESTAZIMUTH: 0 DEG
PYRANOMETER TILT: 45 DEGTIME ZONE: EASTERN
ALTITUDE: 30 FEET

INSCLATICN

DAY	TOTAL INSOLATION BTU/FT2	TOTAL DIFF INSOLATION BTU/FT2	TOTAL DIR INSOLATION BTU/FT2	MAXIMUM TOTAL		EXTRATERRESTRIAL INSOLATION BTU/FT2	TTL INS ----- EXT INS PERCENT
				VALUE BTU/HR/FT2	TIME HR:MN		
1	632.	N.A.	N.A.	269.	12:45	2700.	23.
2	1943.	N.A.	N.A.	328.	13:11	2689.	72.
3	1578.	N.A.	N.A.	307.	13:21	2676.	59.
4	1622.	N.A.	N.A.	322.	13:14	2662.	61.
5	1292.	N.A.	N.A.	292.	13:14	2649.	49.
6	1219.	N.A.	N.A.	266.	11:29	2639.	46.
7	250.	N.A.	N.A.	106.	12:48	2628.	9.
8	1060.	N.A.	N.A.	295.	14:17	2615.	41.
9	942.	N.A.	N.A.	298.	14:45	2603.	36.
10	1721.	N.A.	N.A.	322.	13:40	2590.	66.
11	1128.	N.A.	N.A.	307.	12:33	2581.	44.
12	1642.	N.A.	N.A.	313.	13: 5	2569.	64.
13	955.	N.A.	N.A.	295.	12: 6	2557.	37.
14	1274.	N.A.	N.A.	337.	12:52	2545.	50.
15	1352.	N.A.	N.A.	298.	13:41	2536.	53.
16	2041.	N.A.	N.A.	295.	13:19	2525.	81.
17	1560.	N.A.	N.A.	269.	14:26	2517.	62.
18	1947.	N.A.	N.A.	307.	13:29	2506.	78.
19	1848.	N.A.	N.A.	298.	13:56	2496.	74.
20	1556.	N.A.	N.A.	286.	12:47	2485.	63.
21	1525.	N.A.	N.A.	292.	13:14	2478.	62.
22	1635.	N.A.	N.A.	298.	14: 5	2468.	66.
23	1454.	N.A.	N.A.	260.	14:24	2459.	59.
24	1264.	N.A.	N.A.	345.	13: 9	2449.	52.
25	1970.	N.A.	N.A.	292.	12:47	2441.	81.
26	1999.	N.A.	N.A.	292.	13: 8	2434.	82.
27	1964.	N.A.	N.A.	286.	13:29	2426.	81.
28	1869.	N.A.	N.A.	283.	12:57	2418.	77.
29	1715.	N.A.	N.A.	289.	12:54	2413.	71.
30	1298.	N.A.	N.A.	307.	13:12	2405.	54.
31	1277.	N.A.	N.A.	325.	13: 2	2398.	53.
MEAN	1469.	N.A.	N.A.			2534.	
STANDARD DEVIATION	423.	N.A.	N.A.			93.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: REEDY CREEK
LAKE BUENA VISTA, FLORIDA

REPORT PERIOD: 7/ 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	73.	76.	70.	84.	15:34	68.	22:19	
2	73.	76.	70.	84.	14: 8	67.	4:32	
3	78.	84.	72.	91.	14: 6	68.	5:13	
4	80.	85.	74.	94.	14:39	68.	5:25	
5	79.	83.	74.	94.	14:55	69.	5:41	
6	78.	82.	72.	92.	13:18	70.	22:38	
7	73.	73.	72.	77.	12:17	70.	4:22	
8	74.	74.	73.	77.	10:36	71.	18:31	
9	75.	80.	70.	92.	14: 9	69.	18:57	
10	80.	84.	73.	95.	14:47	68.	1:47	
11	79.	85.	72.	95.	15:44	69.	22:34	
12	79.	85.	73.	95.	12:10	68.	5:25	
13	80.	86.	72.	95.	15: 0	69.	22:38	
14	75.	79.	70.	91.	11:47	68.	20: 9	
15	77.	81.	71.	89.	12:52	67.	2:11	
16	76.	81.	70.	88.	12:18	67.	4:40	
17	75.	79.	69.	85.	12: 1	65.	23:39	
18	72.	78.	66.	84.	14:16	63.	23:57	
19	74.	80.	66.	88.	16:34	57.	3:41	
20	75.	81.	68.	90.	15:14	60.	5: 0	
21	78.	83.	71.	92.	12:50	65.	5:11	
22	81.	86.	74.	95.	14:35	67.	4:59	
23	80.	84.	75.	92.	16: 9	70.	5:34	
24	73.	74.	71.	84.	9: 7	68.	15:36	
25	74.	75.	67.	85.	12:27	61.	23:55	
26	69.	74.	63.	82.	16:38	58.	5:36	
27	74.	81.	66.	91.	16:57	55.	5:10	
28	78.	83.	72.	92.	16:41	64.	5: 8	
29	79.	84.	73.	95.	15:11	67.	4:31	
30	79.	85.	72.	96.	14:29	70.	18: 2	
31	83.	88.	76.	97.	14:34	71.	2:44	
MEAN	77.	81.	71.					
STANDARD DEVIATION	3.2	4.0	3.0					

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: REEDY CREEK
LAKE BUENA VISTA, FLORIDA

REPORT PERIOD: 7/ 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 INSOLATION VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSOLATION ETU/FT2	TTL INS ----- EXT INS PERCENT
1	1276.	521.	756.	327.	12:22	3453.	37.
2	899.	615.	284.	346.	14: 8	3461.	26.
3	1925.	614.	1311.	356.	11:26	3471.	55.
4	1953.	482.	1511.	362.	12:21	3478.	57.
5	1879.	612.	1267.	321.	12:21	3485.	54.
6	1330.	665.	661.	334.	13: 2	3491.	38.
7	331.	262.	70.	114.	14:20	3501.	9.
8	46.	32.	14.	35.	10:31	3507.	1.
9	1178.	554.	624.	334.	12:11	3513.	34.
10	1883.	555.	1328.	337.	10:57	3521.	53.
11	1751.	482.	1269.	337.	11:33	3527.	50.
12	1946.	508.	1437.	346.	12: 0	3535.	55.
13	2037.	503.	1534.	311.	12:20	3540.	58.
14	1076.	664.	413.	337.	11:42	3545.	30.
15	1813.	568.	1245.	334.	11:32	3552.	51.
16	2168.	524.	1644.	337.	12:18	3557.	61.
17	1972.	670.	1302.	324.	12:43	3564.	55.
18	2183.	450.	1733.	320.	12:51	3568.	61.
19	2412.	208.	2204.	314.	11:52	3572.	68.
20	1933.	518.	1415.	321.	12: 7	3578.	54.
21	1666.	644.	1042.	330.	11:41	3581.	47.
22	2147.	541.	1606.	302.	12: 5	3587.	60.
23	1864.	617.	1247.	324.	12:46	3593.	52.
24	627.	363.	263.	251.	11:36	3595.	17.
25	2245.	471.	1774.	327.	12:59	3598.	62.
26	2504.	168.	2337.	321.	12:11	3603.	70.
27	2220.	506.	1714.	346.	12: 9	3605.	62.
28	2315.	404.	1911.	305.	11:37	3610.	64.
29	1831.	627.	1204.	337.	12:26	3613.	51.
30	1849.	308.	1541.	340.	12:26	3615.	51.
31	2056.	402.	1654.	327.	12: 4	3619.	57.
MEAN	1722.	486.	1236.			3550.	
STANDARD DEVIATION	601.	156.	593.			51.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: STATE OF FLORIDA
JACKSONVILLE, FLORIDA

REPORT PERIOD: 79/ 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	70.	74.	65.	80.	14: 9	59.	23:50	N.A.
2	70.	77.	62.	83.	13:16	56.	3: 2	N.A.
3	71.	78.	65.	85.	13: 5	57.	5: 0	N.A.
4	76.	83.	69.	84.	14: 0	66.	4:14	N.A.
5	70.	73.	67.	85.	10:36	65.	1:12	N.A.
6	75.	80.	70.	83.	12:27	67.	4:59	N.A.
7	70.	70.	69.	73.	13:47	67.	16:17	N.A.
8	71.	73.	70.	80.	15:55	68.	5:52	N.A.
9	75.	78.	72.	86.	15:11	69.	6: 7	N.A.
10	75.	83.	67.	83.	14:43	64.	18:11	N.A.
11	72.	78.	67.	84.	12:22	65.	23:56	N.A.
12	77.	85.	68.	87.	13:53	63.	5:32	N.A.
13	75.	83.	68.	84.	12:52	66.	19: 0	N.A.
14	73.	78.	69.	84.	15:29	67.	4:41	N.A.
15	72.	79.	66.	82.	16:16	61.	23:17	N.A.
16	70.	78.	63.	84.	14:12	58.	2:29	N.A.
17	69.	77.	62.	80.	11:11	56.	22: 7	N.A.
18	66.	76.	56.	81.	14:29	52.	4:53	N.A.
19	70.	82.	59.	86.	15:45	50.	4:58	N.A.
20	75.	84.	65.	83.	14: 3	52.	4:54	N.A.
21	78.	87.	69.	89.	16: 5	62.	4: 6	N.A.
22	79.	86.	72.	87.	13:35	68.	3:49	N.A.
23	76.	83.	69.	82.	14:25	61.	5:27	N.A.
24	74.	79.	66.	81.	14:22	65.	5:55	N.A.
25	67.	74.	61.	81.	14: 5	53.	23:57	N.A.
26	63.	75.	52.	86.	15:31	44.	4:13	N.A.
27	68.	78.	58.	89.	15:28	45.	4:51	N.A.
28	74.	84.	64.	87.	15:28	56.	5:36	N.A.
29	76.	84.	67.	87.	16:22	57.	5:10	N.A.
30	78.	85.	71.	83.	12:44	64.	4:44	N.A.
31	78.	85.	70.	84.	14: 5	66.	3:36	N.A.
MEAN	73.	80.	66.					N.A.
STANDARD DEVIATION	3.8	4.4	4.8					N.A.

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: STATE OF FLORIDA
JACKSONVILLE, FLORIDA

REPORT PERIOD: 79/ 5
SITE NUMBER: 29

LATITUDE: 30.30 DEG NORTH
LONGITUDE: 81.42 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 30 DEG

TIME ZONE: EASTERN
ALTITUDE: 26 FEET

INSCLATIGN

DAY	TOTAL INSCLATIGN ETU/FT2	TOTAL DIFF INSCLATIGN ETU/FT2	TOTAL DIR INSCLATIGN ETU/FT2	MAXIMUM TOTAL INSCLATIGN VALUE ETU/HR/FT2	TOTAL TIME HR:MM	EXTRATERRESTRIAL INSCLATIGN ETU/FT2	TTL INS ----- EXT INS PERCENT
1	990.	669.	321.	302.	14: 3	3176.	31.
2	1491.	729.	762.	299.	12:33	3170.	47.
3	1211.	549.	662.	316.	13: 5	3164.	38.
4	1593.	540.	1053.	319.	12:19	3158.	50.
5	425.	356.	69.	138.	10:16	3152.	13.
6	1451.	588.	864.	329.	12:16	3146.	46.
7	151.	144.	7.	94.	12:22	3140.	5.
8	747.	509.	239.	306.	12:38	3134.	24.
9	654.	504.	150.	205.	14: 1	3128.	21.
10	1462.	551.	912.	299.	11:36	3122.	47.
11	1246.	475.	771.	319.	11:56	3116.	40.
12	1676.	527.	1150.	309.	12:33	3111.	54.
13	1321.	580.	741.	299.	12:42	3105.	43.
14	1169.	545.	623.	356.	12: 1	3099.	38.
15	1368.	658.	710.	349.	13: 4	3093.	44.
16	1917.	456.	1461.	302.	12: 9	3088.	62.
17	1658.	584.	1074.	286.	11:11	3082.	54.
18	2123.	364.	1759.	306.	11:43	3077.	69.
19	1959.	563.	1396.	286.	11:54	3072.	64.
20	1657.	760.	896.	282.	12: 6	3066.	54.
21	1607.	772.	835.	296.	13:14	3061.	52.
22	1508.	643.	866.	269.	12:37	3056.	49.
23	1220.	753.	467.	272.	14:20	3051.	40.
24	1243.	465.	778.	302.	13:12	3046.	41.
25	2105.	236.	1869.	299.	12: 8	3042.	69.
26	2134.	147.	1987.	299.	11:57	3037.	70.
27	2042.	159.	1883.	292.	11:44	3033.	67.
28	1971.	224.	1747.	286.	12:21	3028.	65.
29	2011.	238.	1773.	296.	11:39	3024.	67.
30	1655.	344.	1311.	289.	12:44	3020.	55.
31	1448.	493.	955.	292.	12:29	3016.	48.
MEAN	1459.	488.	571.			3091.	
STANDARD DEVIATION	496.	184.	556.			49.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 3

SITE: STATE OF FLORIDA
JACKSONVILLE, FLORIDA

REPORT PERIOD: 79/ 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

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 FR:MN
1	*	3.	*	5.	17.	*	13:37
2	*	3.	*	5.	13.	*	14:52
3	*	1.	*	2.	12.	*	15:40
4	*	1.	*	2.	12.	*	16:24
5	*	0.	*	1.	6.	*	9:39
6	*	1.	*	2.	12.	*	13:36
7	*	1.	*	1.	7.	*	16:49
8	*	2.	*	3.	11.	*	13:15
9	*	1.	*	1.	7.	*	19:48
10	*	1.	*	2.	10.	*	16:14
11	*	1.	*	1.	7.	*	10:41
12	*	1.	*	1.	9.	*	10:52
13	*	1.	*	2.	8.	*	14:28
14	*	0.	*	0.	5.	*	17:10
15	*	1.	*	3.	9.	*	15:12
16	*	2.	*	3.	11.	*	16:47
17	*	3.	*	6.	17.	*	13: 3
18	*	2.	*	3.	11.	*	11:11
19	*	0.	*	1.	10.	*	12: 5
20	*	0.	*	1.	6.	*	14:46
21	*	0.	*	1.	9.	*	16:42
22	*	1.	*	1.	8.	*	7:38
23	*	1.	*	2.	11.	*	9:32
24	*	1.	*	3.	10.	*	11:15
25	*	1.	*	2.	13.	*	15:30
26	*	0.	*	1.	7.	*	15:58
27	*	1.	*	2.	8.	*	10:45
28	*	0.	*	1.	5.	*	11:54
29	*	1.	*	2.	8.	*	13: 4
30	*	1.	*	2.	11.	*	14:52
31	*	1.	*	2.	9.	*	13:55

MEAN 0. 1. 0. 2.
STANDARD DEVIATION ***** 0.7 ***** 1.3

ENVIRONMENTAL SUMMARY REPORT

PAGE 4

SITE: STATE OF FLORIDA
JACKSONVILLE, FLORIDA

REPORT PERIOD: 79/ 5
SITE NUMBER: 29

LATITUDE: 30.30 DEG NORTH
LONGITUDE: 81.42 DEG WEST

AZIMUTH: 0 DEG
GYRANOMETER TILT: 30 DEG

TIME ZONE: EASTERN
ALTITUDE: 26 FEET

RELATIVE HUMIDITY IN PER CENT

DAY	RELATIVE HUMIDITY	DAYTIME REL HUM	NIGHTTIME REL HUM	MAXIMUM HUMIDITY VALUE	HUMIDITY TIME HR:MN	MINIMUM HUMIDITY VALUE	HUMIDITY TIME HR:MN
1	43.	44.	42.	57.	8:27	33.	15:18
2	46.	47.	46.	54.	20:17	37.	3:7
3	55.	56.	53.	61.	20:49	43.	5:42
4	75.	81.	69.	100.	8:24	56.	5:55
5	79.	88.	69.	100.	0:3	55.	4:24
6	84.	88.	81.	100.	0:59	61.	6:3
7	87.	94.	79.	100.	0:24	66.	23:2
8	88.	95.	80.	100.	5:52	66.	5:31
9	94.	96.	92.	100.	0:0	73.	6:7
10	95.	92.	86.	100.	0:4	65.	23:48
11	84.	92.	77.	100.	0:4	58.	23:56
12	79.	87.	70.	100.	6:9	54.	5:59
13	66.	90.	81.	100.	0:15	63.	22:23
14	84.	90.	78.	100.	0:10	62.	5:58
15	85.	92.	78.	100.	0:12	59.	23:12
16	69.	78.	59.	100.	8:15	40.	18:12
17	56.	69.	42.	100.	6:2	23.	17:25
18	40.	46.	34.	100.	6:55	19.	14:7
19	50.	62.	39.	91.	11:33	22.	17:53
20	68.	79.	56.	100.	12:1	31.	3:39
21	77.	85.	69.	100.	0:49	45.	5:3
22	86.	88.	84.	100.	0:37	61.	5:41
23	85.	87.	82.	100.	0:5	55.	5:37
24	86.	91.	82.	100.	0:45	56.	5:23
25	43.	44.	42.	100.	0:25	13.	18:5
26	15.	14.	15.	86.	6:48	5.	17:45
27	31.	38.	24.	93.	12:0	14.	11:28
28	60.	72.	49.	95.	7:6	29.	0:10
29	70.	72.	66.	83.	8:22	61.	5:36
30	81.	85.	78.	100.	12:44	58.	23:40
31	85.	90.	80.	100.	1:27	51.	4:40

MEAN 70. 75. 64.

STANDARD DEVIATION 20. 21. 20.

ENVIRONMENTAL SUMMARY REPORT

PAGE 5

SITE: STATE OF FLORIDA
JACKSONVILLE, FLORIDA

REPORT PERIOD: 7/ 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

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	9	1	0	0	0	0	0	0
2	15	9	0	0	0	0	0	0	0
3	23	1	0	0	0	0	0	0	0
4	24	0	0	0	0	0	0	0	0
5	24	0	0	0	0	0	0	0	0
6	20	4	0	0	0	0	0	0	0
7	24	0	0	0	0	0	0	0	0
8	21	3	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	22	2	0	0	0	0	0	0	0
14	24	0	0	0	0	0	0	0	0
15	22	2	0	0	0	0	0	0	0
16	17	7	0	0	0	0	0	0	0
17	15	8	1	0	0	0	0	0	0
18	18	6	0	0	0	0	0	0	0
19	24	0	0	0	0	0	0	0	0
20	24	0	0	0	0	0	0	0	0
21	24	0	0	0	0	0	0	0	0
22	24	0	0	0	0	0	0	0	0
23	23	1	0	0	0	0	0	0	0
24	20	4	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	24	0	0	0	0	0	0	0	0
28	24	0	0	0	0	0	0	0	0
29	24	0	0	0	0	0	0	0	0
30	22	2	0	0	0	0	0	0	0
31	22	1	0	0	0	0	0	0	1
AVERAGE	22.0	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	682	59	2	0	0	0	0	0	1

OTHER

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: A-FRAME INDUSTRIES
KANEHE, HAWAII

REPORT PERIOD: 7/ 5
SITE NUMBER: 54

LATITUDE: 21.50 DEG NORTH AZIMUTH: -10 DEG
LONGITUDE: 158.00 DEG WEST PYRANOMETER TILT: 21 DEG TIME ZONE: HONOLULU
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	73.	75.	71.	77.	11:37	71.	5:34	74.
2	73.	74.	71.	78.	12:37	67.	5:57	73.
3	75.	77.	73.	80.	9:36	71.	4:32	76.
4	74.	76.	73.	81.	10:17	72.	4:30	74.
5	74.	75.	72.	78.	13: 4	69.	19:22	75.
6	74.	76.	72.	79.	12:48	71.	0:58	75.
7	75.	77.	73.	81.	12:23	72.	2:26	74.
8	75.	76.	73.	82.	12:27	70.	5:58	74.
9	76.	79.	73.	83.	12:54	72.	3:18	76.
10	74.	76.	71.	81.	14:37	69.	21:52	75.
11	75.	78.	71.	83.	11:17	68.	4:10	73.
12	75.	78.	72.	82.	10:21	69.	5: 4	74.
13	74.	76.	73.	80.	12:29	72.	5:49	75.
14	75.	76.	73.	79.	10:20	71.	3:46	75.
15	74.	76.	72.	80.	12:10	70.	4:26	74.
16	73.	73.	72.	78.	11:30	68.	15:52	74.
17	74.	77.	71.	82.	15:10	67.	5:50	75.
18	75.	77.	72.	82.	12:58	68.	4:42	74.
19	75.	77.	73.	81.	11:40	70.	5: 3	76.
20	72.	*	72.	73.	0:28	72.	0: 1	73.
21	*	*	*	*	*:*	*	*:*	*
22	*	*	*	*	*:*	*	*:*	*
23	68.	69.	68.	69.	6:33	67.	5:24	71.
24	77.	78.	74.	81.	10:28	72.	6: 7	75.
25	76.	78.	73.	81.	14:10	71.	22:53	75.
26	73.	75.	71.	78.	10:46	69.	22: 5	75.
27	72.	75.	70.	79.	9: 1	70.	0:29	77.
28	71.	*	71.	72.	22: 2	71.	23:32	74.
29	76.	79.	71.	83.	15:32	68.	5: 3	76.
30	76.	79.	72.	84.	14:47	68.	5: 6	74.
31	74.	78.	70.	83.	12: 2	69.	4:12	74.
MEAN	74.	76.	72.					75.
STANDARD DEVIATION	1.7	2.1	1.2					2.2

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: A-FRAME INDUSTRIES
KANEHOE, HAWAII

REPORT PERIOD: 79/ 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

INSCLATIGN

DAY	TOTAL INSCLATIGN BTU/FT2	TCTAL DIFF INSCLATIGN BTU/FT2	TOTAL DIR INSCLATIGN BTU/FT2	MAXIMUM TCTAL INSCLATIGN VALUE BTU/HR/FT2	TIME HR:MM	EXTRATERRESTRIAL INSCLATIGN ETU/FT2	TTL INS EXT INS PERCENT
1	2091.	N.A.	N.A.	375.	11:53	3187.	66.
2	1707.	N.A.	N.A.	354.	11:49	3181.	54.
3	1463.	N.A.	N.A.	283.	9:25	3175.	46.
4	1424.	N.A.	N.A.	381.	11:37	3169.	45.
5	1955.	N.A.	N.A.	351.	12:48	3164.	63.
6	1412.	N.A.	N.A.	304.	12:48	3158.	45.
7	1655.	N.A.	N.A.	342.	11: 8	3152.	52.
8	978.	N.A.	N.A.	366.	12:16	3146.	31.
9	1860.	N.A.	N.A.	378.	12:22	3141.	59.
10	1095.	N.A.	N.A.	378.	11:33	3135.	35.
11	1769.	N.A.	N.A.	363.	11:22	3129.	57.
12	1890.	N.A.	N.A.	369.	12:13	3124.	61.
13	1354.	N.A.	N.A.	360.	12:24	3118.	43.
14	1750.	N.A.	N.A.	357.	12:39	3113.	58.
15	1814.	N.A.	N.A.	378.	11:43	3104.	58.
16	1186.	N.A.	N.A.	304.	11:20	3099.	36.
17	1834.	N.A.	N.A.	342.	12:36	3094.	59.
18	1766.	N.A.	N.A.	345.	11:59	3088.	57.
19	1510.	N.A.	N.A.	360.	11:40	3083.	49.
20	*	N.A.	N.A.	*	*:*	3078.	*
21	*	N.A.	N.A.	*	*:*	3073.	*
22	*	N.A.	N.A.	*	*:*	3068.	*
23	*	N.A.	N.A.	*	*:*	3064.	*
24	1879.	N.A.	N.A.	325.	11:21	3059.	61.
25	1678.	N.A.	N.A.	319.	11: 4	3054.	55.
26	720.	N.A.	N.A.	161.	10:42	3050.	24.
27	*	N.A.	N.A.	*	*:*	3045.	*
28	*	N.A.	N.A.	*	*:*	3041.	*
29	2200.	N.A.	N.A.	360.	12:26	3037.	72.
30	2181.	N.A.	N.A.	316.	11:46	3033.	72.
31	*	N.A.	N.A.	*	*:*	3029.	*
MEAN	1635.	N.A.	N.A.			3103.	
STANDARD DEVIATION	376.	N.A.	N.A.			49.	

ENVIRONMENTAL SUMMARY REPORT

PAGE 1

SITE: HEI WAI WONG
HONOLULU, HAWAII

REPORT PERIOD: 79/ 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	75.	78.	72.	81.	13:51	69.	4:58	75.
2	75.	78.	72.	82.	14:13	68.	6: 2	75.
3	76.	78.	74.	82.	15: 6	72.	5:46	78.
4	76.	78.	74.	83.	14:24	71.	3:44	76.
5	76.	78.	74.	82.	14:26	72.	5:25	76.
6	75.	75.	74.	78.	14:16	73.	1: 2	73.
7	76.	78.	74.	83.	12:41	73.	5:34	73.
8	76.	79.	74.	85.	10: 0	70.	4:40	74.
9	77.	81.	74.	85.	11:35	72.	6: 9	78.
10	76.	80.	73.	85.	12:30	71.	5:50	76.
11	77.	81.	73.	84.	10:14	70.	5:58	78.
12	77.	81.	74.	84.	11:41	72.	6:14	76.
13	76.	78.	74.	82.	15: 3	72.	0:34	76.
14	76.	78.	74.	81.	13:36	73.	5:41	76.
15	75.	77.	73.	80.	12:23	71.	23:31	78.
16	73.	74.	72.	79.	14:32	68.	3: 4	77.
17	76.	78.	73.	83.	13:55	70.	5: 2	77.
18	76.	80.	73.	83.	11: 8	69.	6: 9	75.
19	77.	80.	75.	83.	13:42	73.	4: 6	77.
20	76.	79.	74.	81.	13:55	73.	23: 3	76.
21	76.	79.	74.	82.	15:35	72.	4:35	79.
22	76.	79.	73.	82.	13: 8	70.	3:38	77.
23	77.	80.	74.	83.	14: 0	71.	2: 0	78.
24	77.	80.	74.	84.	14:23	71.	5: 6	78.
25	77.	80.	74.	84.	12:36	73.	1:40	79.
26	75.	78.	73.	84.	12:41	71.	4: 9	74.
27	77.	80.	74.	88.	10: 7	71.	5:51	73.
28	75.	78.	72.	84.	11:59	69.	5: 9	73.
29	77.	81.	73.	85.	11:37	69.	5:50	76.
30	77.	81.	73.	85.	13:31	70.	5:42	77.
31	77.	81.	72.	87.	9:56	70.	5:51	77.
MEAN	76.	79.	73.					76.
STANDARD DEVIATION	1.0	1.5	0.8					1.8

ENVIRONMENTAL SUMMARY REPORT

PAGE 2

SITE: HEI WAI WONG
HONOLULU, HAWAII

REPORT PERIOD: 7/ 5
SITE NUMBER: 55

LATITUDE: 21.00 DEG NORTH
LONGITUDE: 157.00 DEG WEST

AZIMUTH: 0 DEG
PYRANOMETER TILT: 24 DEG

TIME ZONE: HONOLULU
ALTITUDE: 7 FEET

INSCLATICA

DAY	TOTAL INSCLATICA ETU/FT2	TOTAL DIFF INSCLATICA ETU/FT2	TOTAL DIR INSCLATICA ETU/FT2	MAXIMUM TOTAL INSCLATICA VALUE ETU/HR/FT2	TIME HR:MM	EXTRATERRESTRIAL INSCLATICA BTU/FT2	TTL INS ----- EXT INS PERCENT
1	2148.	N.A.	N.A.	301.	12:37	3094.	69.
2	1949.	N.A.	N.A.	353.	12:37	3086.	63.
3	1504.	N.A.	N.A.	282.	12:37	3078.	49.
4	1949.	N.A.	N.A.	307.	11:44	3071.	63.
5	1828.	N.A.	N.A.	322.	12:55	3063.	60.
6	1313.	N.A.	N.A.	328.	13:39	3055.	43.
7	1721.	N.A.	N.A.	322.	12:41	3051.	56.
8	1363.	N.A.	N.A.	368.	13:17	3043.	45.
9	2086.	N.A.	N.A.	350.	12: 1	3036.	69.
10	1116.	N.A.	N.A.	347.	13: 8	3028.	37.
11	1713.	N.A.	N.A.	338.	12:48	3021.	57.
12	2142.	N.A.	N.A.	301.	12:34	3014.	71.
13	2141.	N.A.	N.A.	319.	13:11	3006.	71.
14	1917.	N.A.	N.A.	295.	12:48	2999.	64.
15	1909.	N.A.	N.A.	319.	13: 0	2992.	64.
16	1668.	N.A.	N.A.	316.	13:33	2986.	56.
17	1801.	N.A.	N.A.	325.	12:30	2979.	60.
18	1952.	N.A.	N.A.	319.	12:44	2975.	66.
19	2068.	N.A.	N.A.	292.	13:26	2968.	70.
20	2148.	N.A.	N.A.	310.	13:26	2962.	73.
21	1723.	N.A.	N.A.	313.	12:39	2956.	58.
22	1965.	N.A.	N.A.	313.	14:18	2950.	67.
23	2024.	N.A.	N.A.	304.	13:38	2944.	69.
24	1993.	N.A.	N.A.	282.	12:26	2938.	68.
25	1700.	N.A.	N.A.	304.	12:36	2932.	58.
26	784.	N.A.	N.A.	252.	10: 7	2927.	27.
27	976.	N.A.	N.A.	292.	12:10	2921.	33.
28	1049.	N.A.	N.A.	353.	11:38	2916.	36.
29	2073.	N.A.	N.A.	335.	12:19	2911.	71.
30	1540.	N.A.	N.A.	316.	12:43	2906.	53.
31	1503.	N.A.	N.A.	273.	12:26	2901.	52.
MEAN	1734.	N.A.	N.A.			2991.	
STANDARD DEVIATION	376.	N.A.	N.A.			59.	

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