

**Table 99-2. Monthly Summary Statistics for Select Meteorological Parameters at the Cactus Flats and Near Field Sites during December, 1998 – November 1999**

See 1999 CEMRC Report "Meteorological Conditions in the Vicinity of the WIPP Site" for descriptions of locations and methods of data collection

Month	Statistic	<sup>a</sup> Air Temperature (°C)		<sup>a</sup> Relative Humidity (%)		<sup>a</sup> Barometric Pressure (mb)		<sup>b</sup> Precipitation (cm)		<sup>b</sup> Solar Radiation (MJ m <sup>-2</sup> )		<sup>d,e</sup> UVB (MJm <sup>-2</sup> )	
		Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field
<i>December</i>	Month Mean or Total	7.2	7.5	56.6	53.9	896.0	901.1	3.96	4.93	375.8	382.2	0.63	0.47
	Daily Minimum	-10.9	-10.9	10.9	9.0	882.3	887.2	0.00	0.00	1.6	1.7	0	0
	Daily Maximum	23.9	23.4	100.5	100.0	908.2	913.8	0.51	0.58	15.7	14.6	1.60	1.47
	% Data Recovery	100.0	100.0	100.0	100.0	100.0	100.0	100.00	100.00	100.0	100.0	100.0	79.1
<i>January</i>	Month Mean or Total	9.6	9.9	41.1	40.2	893.1	898.1	0.00	0.15	411.2	409.6	0.68	0.68
	Daily Minimum	-8.4	-8.0	8.1	7.5	877.0	882.1	0.00	0.00	7.3	6.9	0	0
	Daily Maximum	25.5	26.4	100.1	101.1	904.5	910.0	0.00	0.05	18.0	16.1	1.96	2.20
	% Data Recovery	100.0	100.0	100.0	100.0	100.0	100.0	100.00	100.00	100.0	100.0	100.0	100.0
<i>February</i>	Month Mean or Total	12.7	13.0	28.0	27.3	894.1	899.0	0.36	0.15	510.8	519.8	1.02	1.04
	Daily Minimum	-4.3	-3.1	5.9	5.5	882.7	887.1	0.00	0.00	3.3	2.8	0	0
	Daily Maximum	26.8	26.6	99.2	99.7	911.6	916.8	0.14	0.05	23.4	21.8	2.59	2.60
	% Data Recovery	100.0	100.0	99.7	100.0	100.0	100.0	99.68	100.00	100.0	100.0	100.0	100.0
<i>March</i>	Month Mean or Total	12.9	13.4	48.2	46.9	891.8	896.7	0.66	1.12	659.6	652.0	1.55	1.56
	Daily Minimum	-2.4	-2.1	5.5	5.4	881.9	886.5	0.00	0.00	5.4	4.6	0	0
	Daily Maximum	29.2	29.3	99.3	99.5	902.0	907.0	0.26	0.42	29.2	26.1	3.58	3.57
	% Data Recovery	100.0	100.0	100.0	98.3	100.0	98.3	100.00	98.30	100.0	100.0	100.0	100.0
<i>April</i>	Month Mean or Total	17.8	18.0	32.0	31.8	889.9	894.6	0.03	0.10	723.7	751.5	1.82	1.99
	Daily Minimum	1.6	2.8	3.7	4.1	876.4	880.9	0.00	0.00	16.2	11.9	0	0
	Daily Maximum	33.5	33.6	98.4	98.0	902.2	907.5	0.01	0.04	32.1	29.5	4.09	4.18
	% Data Recovery	100.0	98.2	100.0	98.2	100.0	98.2	100.00	98.24	100.0	100.0	100.0	100.0
<i>May</i>	Month Mean or Total	21.9	22.2	43.2	41.1	890.4	895.0	0.00	0.13	855.1	891.5	0.0	2.46
	Daily Minimum	9.1	7.9	5.9	5.5	877.8	882.4	0.00	0.00	8.2	9.7	0	0
	Daily Maximum	34.3	34.9	98.0	97.3	901.4	906.4	0.00	0.05	34.5	31.7	0.0	4.18
	% Data Recovery	100.0	98.1	97.9	98.1	100.0	98.1	97.92	98.14	100.0	100.0	0.0	100.0

Month	Statistic	<sup>a</sup> Air Temperature (°C)		<sup>a</sup> Relative Humidity (%)		<sup>a</sup> Barometric Pressure (mb)		<sup>b</sup> Precipitation (cm)		<sup>b</sup> Solar Radiation (MJ m <sup>-2</sup> )		<sup>d,e</sup> UVB (MJm <sup>-2</sup> )	
		Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field	Cactus Flats	Near Field
<i>June</i>	Month Mean or Total	25.1	25.7	54.9	51.6	891.5	896.0	0.36	0.61	884.0	811.9	0.0	2.41
	Daily Minimum	13.9	14.2	7.1	7.6	883.3	887.5	0.00	0.00	9.9	7.2	0	0
	Daily Maximum	41.0	40.9	95.6	93.8	902.0	906.8	0.33	0.33	35.5	32.6	0.0	4.64
	% Data Recovery	99.68	98.0	99.8	98.0	99.68	98.0	99.81	97.99	<sup>c</sup> 69.9	99.9	0.0	100.0
<i>July</i>	Month Mean or Total	26.7	27.3	50.5	48.2	894.2	898.7	2.13	5.54	855.6	831.3	0.09	2.51
	Daily Minimum	16.3	16.7	10.6	10.2	884.3	888.6	0.00	0.00	20.4	13.7	0	0
	Daily Maximum	40.9	41.5	93.2	93.6	901.5	906.2	0.53	0.84	32.3	29.3	4.34	4.56
	% Data Recovery	100.0	100.0	100.0	100.0	100.0	100.0	100.00	100.00	99.9	99.9	4.3	99.9
<i>August</i>	Month Mean or Total	28.1	28.4	40.1	39.8	894.3	898.9	0.69	2.49	797.6	788.3	2.39	2.28
	Daily Minimum	20.1	19.9	13.0	12.6	889.2	893.7	0.00	0.00	10.0	7.7	0	0
	Daily Maximum	37.0	37.3	83.8	86.5	900.1	904.7	0.16	0.32	31.2	28.5	4.15	4.54
	% Data Recovery	100.0	98.5	100.0	98.5	100.0	98.5	98.75	98.52	100.0	100.0	100.0	100.0
<i>September</i>	Month Mean or Total	22.4	22.9	54.4	52.4	893.5	898.1	0.30	0.28	632.9	628.1	1.82	1.73
	Daily Minimum	6.5	6.2	13.5	12.3	883.5	887.8	0.00	0.00	4.9	9.7	0	0
	Daily Maximum	35.0	35.5	92.4	93.4	908.9	914.0	0.12	0.06	27.2	25.3	4.11	3.77
	% Data Recovery	99.81	99.81	99.81	99.81	99.81	98.5	98.17	98.52	99.8	99.8	99.8	99.8
<i>October</i>	Month Mean or Total	17.7	18.1	39.8	38.9	896.4	901.2	0.2	1.42	592.6	589.4	1.36	1.26
	Daily Minimum	1.7	2.3	9.4	9.4	883.5	888.1	0.00	0.00	1.3	2.7	0	0
	Daily Maximum	32.2	33.2	93.2	94.1	904.9	910.3	0.03	0.08	21.0	22.6	3.15	3.05
	% Data Recovery	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9
<i>November</i>	Month Mean or Total	14.4	14.8	42.3	41.2	897.6	902.4	0.00	0.00	460.0	458.8	0.88	0.83
	Daily Minimum	-1.4	-1.0	9.7	9.9	883.3	887.6	0.00	0.00	11.3	12.1	0	0
	Daily Maximum	27.1	27.9	96.7	94.8	912.1	917.3	0.00	0.00	18.9	18.6	2.17	2.08
	% Data Recovery	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

<sup>a</sup>Monthly mean presented

<sup>b</sup>Monthly total presented

<sup>c</sup>Sensor damaged by lightning. Not recorded from 21 June – 28 June.

<sup>d</sup>Daily maximum in W/m<sup>2</sup>

<sup>e</sup>Sensor inoperative from April 21 - July 30 due to equipment failure