

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
10/25/2006	44.63	40.50	52.90	27.16	27.09	27.21	66.48	54.00	72.90	9.13	8.10	10.70	313.50	287.60	347.70	6.78	5.60	9.40	No Data			
10/26/2006	41.98	32.80	54.60	27.27	27.21	27.33	63.06	31.00	83.30	10.27	7.40	12.70	267.27	223.70	301.60	6.87	3.30	12.50	No Data			
10/27/2006	42.66	35.10	51.70	27.27	27.20	27.34	55.74	34.00	72.90	11.33	6.20	17.00	275.66	220.80	303.80	7.18	3.20	11.90	No Data			
10/28/2006	41.03	28.30	56.30	27.08	26.94	27.20	64.33	41.10	81.70	7.05	3.00	14.60	236.14	56.90	315.20	13.58	4.10	39.00	No Data			
10/29/2006	42.63	29.40	63.40	26.83	26.79	26.91	53.74	17.40	82.20	13.63	6.00	22.20	188.82	17.30	348.80	6.48	3.00	16.60	No Data			
10/30/2006	22.76	16.20	28.40	27.08	26.81	27.26	75.13	66.90	85.30	18.96	15.20	22.40	245.91	3.30	354.90	7.18	5.00	9.40	No Data			
10/31/2006	19.58	10.50	27.80	27.25	27.22	27.31	61.68	47.80	74.80	14.45	10.50	16.80	265.13	246.10	283.00	6.71	5.00	8.40	No Data			
11/1/2006	20.80	15.40	25.80	27.39	27.31	27.47	68.97	61.50	80.60	14.61	6.80	19.70	287.14	256.20	312.70	7.42	4.90	9.30	No Data			
11/2/2006	19.03	10.50	30.60	27.46	27.35	27.50	64.08	42.70	78.10	7.16	2.90	10.20	191.42	11.90	321.00	10.11	4.70	35.90	No Data			
11/3/2006	27.06	16.80	33.70	27.19	27.12	27.33	60.16	51.30	71.20	10.93	5.50	14.50	143.11	89.60	183.80	6.87	5.00	9.30	No Data			
11/4/2006	43.03	28.90	63.00	27.14	27.08	27.20	58.94	33.20	76.70	9.08	4.40	13.20	236.78	173.60	308.00	5.65	2.50	11.30	No Data			
11/5/2006	43.75	33.80	62.40	27.10	27.03	27.18	71.40	32.20	89.70	11.91	7.60	21.40	232.55	212.60	273.80	4.88	3.10	7.70	No Data			
11/6/2006	44.25	30.40	56.50	27.08	26.97	27.18	70.58	47.60	85.90	11.13	6.90	15.80	231.98	207.80	267.50	5.13	3.00	8.40	No Data			
11/7/2006	56.21	44.70	74.00	26.82	26.70	26.94	64.16	37.10	81.30	12.60	7.10	23.20	239.61	218.50	271.10	5.53	2.60	8.80	No Data	0.00	Tipping Bucket	
11/8/2006	50.47	30.50	61.30	26.79	26.63	27.03	53.43	29.80	80.00	16.99	8.00	26.20	273.22	213.60	318.30	7.30	3.90	10.00	No Data			
11/9/2006	30.58	27.90	35.30	27.18	27.04	27.34	77.15	65.10	84.20	6.65	3.70	8.90	139.03	10.50	354.10	11.67	4.40	38.80	No Data			
11/10/2006	27.05	22.30	34.00	27.39	27.23	27.48	76.78	62.40	88.00	8.92	4.00	16.80	126.53	41.10	190.30	7.30	4.90	15.60	No Data			
11/11/2006	33.89	26.10	44.40	26.96	26.85	27.20	71.79	52.80	88.60	12.30	6.40	17.40	206.98	168.20	261.30	6.25	4.10	8.30	No Data			
11/12/2006	34.13	25.50	45.30	27.08	26.94	27.14	65.85	34.10	86.20	10.76	7.00	15.40	259.44	219.70	287.00	6.08	3.30	9.50	No Data			
11/13/2006	36.40	25.60	47.90	26.78	26.64	27.04	54.71	31.40	73.10	13.86	7.80	25.50	211.65	177.30	243.90	5.27	3.30	9.50	No Data			
11/14/2006	32.23	22.70	40.80	26.88	26.67	27.21	56.36	42.90	72.00	10.85	3.60	15.60	281.74	223.00	325.50	7.50	3.30	12.00	No Data			
11/15/2006	27.89	16.60	43.10	27.21	26.99	27.31	60.84	35.30	79.50	8.94	4.90	16.80	237.19	186.20	310.80	9.73	4.70	32.70	No Data			
11/16/2006	39.57	31.50	54.10	26.88	26.81	27.06	60.82	50.30	73.80	12.08	5.50	18.30	227.51	174.20	326.10	7.17	4.80	21.60	No Data			
11/17/2006	33.81	24.40	47.30	27.29	27.11	27.36	41.67	20.20	58.00	8.40	2.00	14.60	252.53	2.30	339.80	11.67	4.00	32.40	No Data			
11/18/2006	33.88	23.50	48.30	27.37	27.32	27.47	46.01	30.50	58.50	7.64	4.00	10.80	245.26	182.40	317.60	6.94	3.00	18.50	No Data			
11/19/2006	34.98	21.60	50.90	27.49	27.25	27.60	48.42	20.40	72.00	10.92	6.40	21.80	216.67	166.70	272.10	7.18	4.60	16.70	No Data			
11/20/2006	42.04	0.00	60.20	27.11	27.06	27.22	39.89	26.80	57.90	11.39	0.00	19.10	208.58	0.00	301.60	6.41	3.60	14.30	No Data			
11/21/2006	43.08	33.50	57.80	27.10	27.00	27.16	55.88	36.40	68.50	8.28	3.40	13.50	203.59	125.20	290.90	6.84	3.30	20.30	No Data			
11/22/2006	42.37	33.80	54.20	27.17	27.00	27.31	55.30	35.10	70.90	9.92	2.90	15.90	249.43	145.40	305.40	8.65	3.60	21.70	No Data			
11/23/2006	36.53	28.80	47.80	27.08	26.89	27.27	62.26	50.50	75.10	13.87	5.90	19.20	155.70	66.20	276.00	7.32	4.80	14.70	No Data			
11/24/2006	30.20	0.00	50.10	27.11	27.05	27.20	48.95	18.10	75.40	12.19	0.00	22.60	228.39	0.00	344.10	5.85	3.20	11.50	No Data			
11/25/2006	11.08	5.70	17.70	27.27	27.21	27.31	66.46	50.80	79.50	7.61	4.20	11.00	94.18	6.90	354.70	10.48	4.30	33.40	No Data			
11/26/2006	10.71	6.60	17.90	27.37	27.31	27.42	66.58	52.70	75.10	6.38	2.50	13.80	51.82	1.00	102.00	10.32	4.40	22.10	No Data			
11/27/2006	13.48	6.20	20.80	27.10	26.91	27.34	81.24	74.20	85.60	13.38	1.00	19.30	112.16	103.20	124.40	6.68	5.20	9.00	No Data			
11/28/2006	6.75	-6.60	20.90	27.01	26.87	27.20	75.13	64.10	85.80	10.79	1.00	22.20	258.62	91.30	343.00	6.88	3.50	10.80	No Data			
11/29/2006	-4.38	-7.00	0.30	27.26	27.21	27.35	64.42	61.30	66.80	21.49	18.10	25.30	269.82	255.50	281.30	6.38	5.30	7.30	No Data			
Note break in data																						
1/2/2007	44.10	44.10	44.10	27.12	27.12	27.12	56.00	56.00	56.00	19.10	19.10	19.10	271.50	271.50	271.50	7.50	7.50	7.50	No Data			
Note break in data																						
1/31/2007	9.00	5.70	12.20	27.04	26.92	27.13	66.94	60.50	72.50	13.21	9.20	18.20	264.55	235.60	294.60	6.78	5.20	8.60	No Data			
2/1/2007	4.71	-4.50	15.10	27.05	26.81	27.21	66.82	54.30	79.70	18.65	13.10	22.40	297.33	238.80	342.10	6.85	5.50	8.40	No Data			
2/2/2007	-4.12	-10.90	1.80	26.97	26.85	27.10	57.35	49.40	64.80	17.78	10.30	23.40	290.30	245.70	321.40	6.84	5.30	8.40	No Data			
2/3/2007	-6.33	-16.80	4.40	27.18	27.11	27.31	61.55	45.80	68.80	12.10	8.60	17.90	282.55	262.00	299.80	6.98	5.70	9.50	No Data			
2/4/2007	4.41	-11.90	18.00	27.34	27.30	27.37	61.77	43.20	70.90	6.21	2.50	9.60	185.05	64.70	290.00	10.37	4.60	33.00	No Data			
2/5/2007	12.95	3.40	21.00	27.32	27.06	27.42	74.89	68.20	81.80	9.53	7.60	13.30	123.63	58.70	185.70	6.71	4.80	10.60	No Data			
2/6/2007	15.96	1.90	29.10	27.29	27.04	27.48	77.16	69.40	84.20	11.39	4.10	17.50	316.32	204.50	353.80	8.82	4.90	18.00	No Data			
2/7/2007	5.56	-2.60	12.70	27.50	27.46	27.57	69.68	61.30	74.50	4.61	1.50	7.80	111.54	3.30	358.50	14.70	5.10	40.70	No Data			
2/8/2007	2.12	-8.00	11.80	27.50	27.44	27.55	67.37	54.10	74.50	5.26	2.50	9.20	119.28	4.00	354.00	11.62	4.30	31.30	No Data			
2/9/2007	7.18	-0.70	16.50	27.52	27.49	27.56	56.71	40.70	70.90	5.46	2.30	8.20	229.70	6.90	352.70	9.63	3.00	21.10	No Data			
2/10/2007	13.39	5.60	21.00	27.28	27.12	27.48	70.71	61.80	83.50	4.38	1.40	10.40	214.01	66.50	300.80	12.77	4.20	38.20	No Data			
2/11/2007	13.84	2.70	26.80	27.12	27.08	27.22	75.76	63.70	83.40	7.58	1.80	13.90	128.28	6.70	319.50	10.95	5.50	32.00	No Data			
2/12/2007	6.84	4.50	10.40	27.33	27.24	27.48	76.24	70.90	79.80	13.74	12.00	15.60	63.19	57.70	75.40	4.81	4.20	5.30	No Data			
Note break in data																						
3/13/2007	39.83	30.90	44.90	27.09	27.05	27.17	67.40	63.60	73.60	5.96	3.20	8.50	98.31	12.70	352.10	13.70	3.80	40.80	No Data			
3/14/2007	31.43	26.70	39.00	27.21	27.15	27.26	72.97	40.60	91.10	9.38	1.00	19.70	180.30	5.10	338.90	7.63	3.50	19.30	No Data			
3/15/2007	24.89	18.20	30.80	27.46	27.23	27.56	76.82	60.60	90.10	7.91	2.00	14.50	254.08	96.60	338.10	12.12	3.80	53.50	No Data			
3/16/2007	29.32	19.00	40.90	27.40	27.28	27.51	69.73	46.90	83.80	8.25	2.10	13.50	145.33	54.10	275.40	9.60	4.00	25.30	No Data			
3/17/2007	36.64	28.40	51.00	27.20	27.04	27.28	75.75	56.90	86.50	10.85	5.20	18.70	138.52	105.30	171.00	7.43	5.60	11.00	No Data			
3/18/2007	44.77	31.30	65.30	26.98	26.86	27.26	65.77	30.70	83.10	16.84	10.40	26.40	265.25	186.50	346.20	6.64	4.20	8.70	No Data			
3/19/2007	33																					

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	5/6/2007	52.18	45.70	55.50	26.98	26.88	27.19	88.87	75.60	93.70	11.41	3.90	19.50	201.25	17.00	342.00	10.98	5.00	48.70	1888	494.00	0.50
5/7/2007	57.24	43.30	70.00	27.24	27.21	27.29	56.09	29.90	85.00	8.80	1.40	11.80	268.54	221.00	335.00	9.78	3.80	17.60	7356	874.00	0.00	Tipping Bucket
5/8/2007	61.88	46.00	75.80	27.22	27.16	27.28	54.98	30.90	78.50	9.23	6.90	15.40	239.71	212.00	266.00	7.83	1.70	19.30	6886	841.00	0.00	Tipping Bucket
5/9/2007	66.87	49.30	82.90	27.11	27.04	27.19	50.85	23.80	79.40	10.99	6.80	16.60	244.21	201.00	353.00	7.60	2.40	15.60	7458	879.00	0.00	Tipping Bucket
5/10/2007	52.17	44.30	60.10	27.37	27.21	27.45	59.55	43.80	78.70	11.15	6.00	16.70	159.58	2.00	356.00	8.82	4.60	16.10	4800	746.00	0.05	Tipping Bucket
5/11/2007	55.47	46.80	66.70	27.37	27.33	27.42	70.09	56.80	83.50	11.15	7.00	14.60	108.04	68.00	134.00	10.11	4.90	21.40	6738	858.00	0.04	Tipping Bucket
5/12/2007	57.51	44.10	71.70	27.28	27.13	27.39	67.49	44.30	88.40	13.25	6.90	20.40	116.79	98.00	149.00	8.20	5.70	14.60	6598	788.00	0.00	Tipping Bucket
5/13/2007	68.03	54.20	82.60	27.04	26.96	27.10	62.35	35.10	83.70	9.95	5.80	16.30	75.13	11.00	228.00	14.60	4.40	47.30	6809	865.00	0.00	Tipping Bucket
5/14/2007	50.25	43.30	55.30	27.27	27.00	27.48	81.95	65.60	90.90	18.68	8.10	32.10	308.92	253.00	347.00	9.33	7.10	21.30	2421	434.00	0.87	Tipping Bucket
5/15/2007	50.15	38.10	59.80	27.48	27.44	27.51	66.39	43.50	89.10	10.23	7.00	14.90	285.13	245.00	340.00	8.62	3.90	19.50	5695	842.00	0.00	Tipping Bucket
5/16/2007	53.56	39.30	64.60	27.45	27.36	27.49	52.30	31.80	77.60	5.52	2.20	14.70	125.25	0.00	333.00	23.11	5.30	60.10	7370	909.00	0.00	Tipping Bucket
5/17/2007	62.39	46.10	79.30	27.20	27.10	27.35	55.52	39.30	69.80	16.32	8.20	21.00	187.71	156.00	204.00	6.60	4.20	10.30	7281	868.00	0.00	Tipping Bucket
5/18/2007	69.93	52.80	86.50	27.08	27.05	27.13	53.33	28.70	82.00	7.97	4.20	11.30	193.13	7.00	336.00	14.50	4.00	46.30	5877	799.00	0.00	Tipping Bucket
5/19/2007	46.38	40.50	62.20	27.27	27.15	27.33	84.80	60.30	92.50	15.25	5.90	19.30	69.83	30.00	128.00	7.59	5.40	19.80	2622	334.00	0.00	Tipping Bucket
5/20/2007	52.36	46.20	59.30	27.09	26.97	27.27	90.17	85.90	92.30	9.36	3.90	13.70	104.96	46.00	165.00	10.58	5.60	33.50	1793	282.00	0.18	Tipping Bucket
5/21/2007	60.77	50.80	74.90	26.84	26.78	26.93	79.97	54.90	93.10	10.04	3.90	17.30	169.04	19.00	344.00	13.84	6.00	43.70	4990	698.00	0.00	Tipping Bucket
5/22/2007	51.54	47.40	55.80	26.92	26.85	27.01	88.41	82.30	90.90	10.71	3.40	15.90	305.25	267.00	353.00	8.81	7.40	19.50	1581	272.00	0.13	Tipping Bucket
5/23/2007	44.74	37.90	47.10	27.03	26.95	27.21	83.61	70.70	91.70	15.10	3.40	24.30	274.13	220.00	340.00	8.02	5.30	13.10	3694	443.00	0.03	Tipping Bucket
5/24/2007	46.84	37.20	59.30	27.33	27.22	27.36	63.14	38.00	81.20	10.38	1.50	16.70	261.04	9.00	332.00	16.37	5.30	56.30	6760	877.00	0.00	Tipping Bucket
5/25/2007	44.21	39.00	49.70	27.25	27.20	27.36	79.95	71.00	89.30	20.77	5.90	28.30	63.42	1.00	350.00	6.85	5.10	15.90	2077	350.00	0.21	Tipping Bucket
5/26/2007	47.95	38.00	59.00	27.33	27.29	27.37	62.33	36.00	89.40	8.74	2.30	20.20	236.50	7.00	355.00	14.17	5.70	31.30	7716	914.00	0.01	Tipping Bucket
5/27/2007	54.13	38.30	67.50	27.18	27.04	27.29	63.39	51.10	82.00	12.78	4.40	17.80	161.88	136.00	196.00	8.44	5.00	14.90	7197	869.00	0.00	Tipping Bucket
5/28/2007	60.56	50.80	70.80	26.99	26.93	27.08	78.11	59.40	92.80	9.72	4.90	14.50	230.54	20.00	342.00	16.38	6.60	66.60	5418	760.00	0.05	Tipping Bucket
5/29/2007	57.68	53.30	63.70	27.17	27.06	27.26	73.50	57.20	86.70	9.70	4.80	14.10	292.50	247.00	325.00	9.35	4.50	14.90	4810	653.00	0.08	Tipping Bucket
5/30/2007	49.25	46.20	52.10	27.22	27.09	27.27	87.48	83.70	90.80	11.13	7.80	15.30	307.42	268.00	336.00	8.19	6.60	10.30	1523	219.00	0.58	Tipping Bucket
5/31/2007	51.32	45.80	56.80	26.95	26.86	27.08	87.49	75.50	92.20	15.38	11.60	22.40	149.25	9.00	355.00	7.17	5.30	9.50	2779	390.00	0.40	Tipping Bucket
6/1/2007	55.07	49.70	61.20	27.13	27.08	27.17	85.54	79.00	91.20	11.30	5.30	15.70	163.04	3.00	360.00	8.10	5.30	10.90	3044	588.00	0.02	Tipping Bucket
6/2/2007	61.72	49.80	72.70	27.20	27.17	27.22	72.78	49.60	90.80	8.33	4.40	11.50	306.21	11.00	349.00	11.59	5.20	42.00	7080	841.00	0.00	Tipping Bucket
6/3/2007	65.81	54.50	77.80	27.23	27.21	27.26	67.01	43.40	86.40	8.48	4.80	14.60	293.67	103.00	353.00	10.83	5.10	30.20	6894	870.00	0.00	Tipping Bucket
6/4/2007	62.60	57.10	68.60	27.24	27.19	27.29	67.45	47.10	81.20	8.80	1.70	13.90	153.00	9.00	348.00	9.98	4.10	21.30	5692	782.00	0.00	Tipping Bucket
6/5/2007	62.62	46.20	73.90	26.99	26.73	27.22	67.75	50.00	87.20	10.90	2.90	17.80	169.08	10.00	234.00	9.22	2.70	34.50	7223	853.00	0.00	Tipping Bucket
6/6/2007	65.54	55.50	75.00	26.53	26.43	26.71	75.26	61.00	90.30	10.45	2.60	23.30	80.08	2.00	277.00	12.16	5.50	47.80	5299	825.00	0.00	Tipping Bucket
6/7/2007	50.13	43.90	56.20	26.78	26.43	27.11	69.97	46.00	91.70	22.58	7.50	30.10	224.13	6.00	357.00	8.41	5.10	11.40	5017	888.00	0.86	Tipping Bucket
6/8/2007	56.15	39.30	70.10	27.12	27.09	27.13	63.50	40.20	84.60	13.24	7.40	21.20	238.67	221.00	252.00	6.27	3.30	9.70	7697	926.00	0.00	Tipping Bucket
6/9/2007	64.49	50.60	75.80	27.12	27.10	27.14	61.53	40.20	83.10	9.00	4.40	15.20	236.54	211.00	252.00	9.22	2.80	19.50	7046	827.00	0.00	Tipping Bucket
6/10/2007	69.33	53.40	83.00	27.03	26.97	27.11	62.34	38.30	82.10	10.49	4.20	17.80	199.42	170.00	227.00	6.50	2.90	12.70	7436	898.00	0.00	Tipping Bucket
6/11/2007	74.49	61.20	85.40	27.02	26.97	27.08	66.39	42.80	87.50	6.70	2.60	12.50	178.58	0.00	326.00	19.98	4.00	58.20	7467	872.00	0.00	Tipping Bucket
6/12/2007	63.93	58.90	69.30	27.20	27.10	27.28	80.70	68.70	90.00	5.50	1.20	17.50	170.21	11.00	342.00	25.44	8.60	70.30	1827	246.00	0.36	Tipping Bucket
6/13/2007	66.35	54.90	78.90	27.30	27.26	27.34	69.41	39.60	92.70	5.95	3.30	9.50	177.67	7.00	335.00	17.55	4.00	51.00	7392	892.00	0.00	Tipping Bucket
6/14/2007	65.85	57.20	76.50	27.18	27.12	27.28	68.00	44.60	84.80	9.56	4.80	15.20	229.71	176.00	337.00	9.83	5.90	32.50	6443	835.00	0.00	Tipping Bucket
6/15/2007	61.10	56.60	67.20	27.25	27.18	27.31	71.80	57.30	85.40	5.57	2.40	9.10	270.21	209.00	328.00	12.40	5.60	28.20	3610	472.00	0.01	Tipping Bucket
6/16/2007	63.08	52.40	72.50	27.24	27.04	27.32	68.65	46.40	88.60	9.80	3.10	16.50	142.58	23.00	345.00	13.36	7.40	48.40	6354	872.00	0.01	Tipping Bucket
6/17/2007	63.43	53.80	76.70	26.90	26.82	27.00	79.45	61.50	90.80	12.10	6.40	20.00	190.67	52.00	323.00	10.84	3.50	31.00	4403	847.00	0.02	Tipping Bucket
6/18/2007	54.17	48.10	62.90	26.97	26.87	27.13	67.86	52.70	87.90	19.73	8.00	33.20	264.67	216.00	306.00	7.50	4.00	10.90	4167	586.00	0.00	Tipping Bucket
6/19/2007	62.07	45.00	75.10	27.24	27.15	27.29	58.20	35.80	84.20	9.93	4.50	16.30	252.21	229.00	294.00	8.56	3.20	15.00	7747	907.00	0.00	Tipping Bucket
6/20/2007	69.08	51.60	83.50	27.28	27.24	27.31	55.25	30.90	77.10	5.82	2.90	10.10	178.67	129.00	247.00	12.14	4.50	30.80	7866	892.00	0.00	Tipping Bucket
6/21/2007	70.26	62.60	78.40	27.26	27.22	27.30	72.41	61.90	86.40	6.54	3.10	9.10	136.17	71.00	183.00	15.28	5.90	49.00	5412	791.00	0.00	Tipping Bucket
6/22/2007	73.03	58.90	87.70	27.20	27.13	27.26	69.94	39.70	92.30	7.87	4.30	11.40	189.71	90.00	222.00	10.17	4.10	29.10	6694	874.00	0.00	Tipping Bucket
6/23/2007	76.74	62.50	87.90	27.01	26.91	27.13	60.79	38.90	81.50	14.13	8.80	25.40	195.00	166.00	346.00	9.78	4.70	37.10	6595	899.00	0.00	Tipping Bucket
6/24/2007	73.58	66.50	80.60	26.99	26.94	27.04	74.19	63.80	89.50	14.56	6.00	19.00	93.92	8.00	348.00	11.71	5.60	54.60	6766	831.00	0.00	Tipping Bucket
6/25/2007	70.03	60.20	81.20	27.05	26.90	27.22	77.33	62.40	90.30	11.96	5.10	22.10	124.13	0.00	352.00	14.01	5.50	35.70	5359	816.00	0.00	Tipping Bucket
6/26/2007	62.56																					

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	8/21/2007	68.62	59.00	78.50	27.13	27.09	27.16	39.56	23.20	63.10	10.66	5.20	17.20	257.96	217.00	299.00	10.25	5.20	15.70	5766	789.00	0.00
8/22/2007	63.92	48.80	73.50	27.19	27.16	27.22	45.65	30.80	69.50	9.42	6.40	11.90	256.29	229.00	307.00	9.03	4.10	15.80	3378	593.00	0.00	Tipping Bucket
8/23/2007	62.10	49.80	72.50	27.20	27.18	27.23	46.52	26.30	73.80	7.50	4.90	11.00	270.42	1.00	351.00	12.74	3.80	22.80	6160	778.00	0.00	Tipping Bucket
8/24/2007	52.40	45.50	58.70	27.26	27.21	27.31	71.40	56.80	83.20	4.70	2.80	6.10	153.21	21.00	339.00	13.16	4.10	29.50	1491	244.00	0.04	Tipping Bucket
8/25/2007	59.37	43.10	76.70	27.18	27.03	27.31	68.41	39.20	91.20	11.97	4.80	18.80	191.54	163.00	240.00	7.31	2.80	13.60	5353	633.00	0.00	Tipping Bucket
8/26/2007	74.29	57.10	93.50	26.97	26.95	27.03	46.34	9.80	86.90	10.29	7.00	15.70	191.08	8.00	343.00	11.13	3.90	30.60	5914	749.00	0.00	Tipping Bucket
8/27/2007	62.92	53.10	72.60	27.14	27.03	27.26	67.02	47.80	88.60	13.90	7.70	22.20	45.00	23.00	66.00	7.94	4.20	12.60	4008	507.00	0.01	Tipping Bucket
8/28/2007	57.45	51.30	69.30	27.37	27.24	27.47	67.47	46.10	80.70	8.46	3.20	14.50	196.63	4.00	359.00	11.90	4.40	39.60	2830	550.00	0.01	Tipping Bucket
8/29/2007	62.58	45.20	76.80	27.47	27.41	27.52	55.69	33.30	80.90	8.10	1.90	14.00	174.08	6.00	268.00	16.82	3.90	47.80	5800	778.00	0.00	Tipping Bucket
8/30/2007	73.04	54.50	92.60	27.35	27.29	27.42	49.55	14.10	85.00	8.42	3.10	14.70	178.25	5.00	353.00	12.85	3.90	42.40	5867	748.00	0.00	Tipping Bucket
8/31/2007	76.25	58.60	92.70	27.24	27.15	27.31	52.58	21.80	84.80	11.48	3.80	21.40	125.38	53.00	194.00	11.53	6.90	24.50	5341	694.00	0.00	Tipping Bucket
9/1/2007	77.68	66.60	91.00	27.14	27.06	27.25	47.63	16.30	85.10	9.60	4.90	15.20	243.33	113.00	326.00	10.86	2.80	23.10	5271	699.00	0.00	Tipping Bucket
9/2/2007	69.50	54.60	81.70	27.31	27.22	27.39	49.10	30.90	72.50	11.33	5.70	17.50	82.08	8.00	140.00	8.39	3.80	12.60	5134	671.00	0.00	Tipping Bucket
9/3/2007	78.53	58.10	100.40	27.15	27.10	27.22	50.01	13.20	88.70	7.77	3.90	15.30	178.21	6.00	343.00	17.28	3.30	57.50	5513	720.00	0.00	Tipping Bucket
9/4/2007	75.05	58.90	92.20	27.05	26.91	27.16	62.41	33.10	91.60	11.12	7.30	18.40	84.92	17.00	131.00	8.34	3.80	12.40	5305	691.00	0.00	Tipping Bucket
9/5/2007	69.78	56.80	77.40	26.99	26.87	27.13	56.06	27.60	85.60	13.54	5.50	28.10	85.92	0.00	348.00	11.70	6.50	47.50	3954	688.00	0.00	Tipping Bucket
9/6/2007	56.85	52.80	61.90	27.11	27.08	27.16	72.78	59.20	88.30	4.55	1.80	7.30	192.04	61.00	331.00	14.40	4.00	33.80	1108	162.00	0.09	Tipping Bucket
9/7/2007	59.74	48.20	72.30	27.26	27.18	27.32	59.28	26.00	87.30	8.33	3.80	16.30	232.63	33.00	325.00	15.04	5.90	33.90	5452	720.00	0.00	Tipping Bucket
9/8/2007	50.20	45.20	57.70	27.43	27.25	27.54	77.68	55.10	89.40	10.89	3.30	18.70	141.13	2.00	359.00	11.49	3.90	27.80	2452	405.00	0.97	Tipping Bucket
9/9/2007	49.94	40.00	62.20	27.52	27.46	27.55	69.26	35.90	87.70	7.34	3.30	15.20	193.88	53.00	236.00	13.82	2.50	45.80	3501	666.00	0.00	Tipping Bucket
9/10/2007	56.30	39.80	72.10	27.39	27.29	27.49	59.22	28.00	87.80	13.86	8.20	21.90	263.75	228.00	341.00	8.05	3.30	12.10	4476	693.00	0.00	Tipping Bucket
9/11/2007	54.98	43.30	68.10	27.37	27.24	27.45	56.65	36.60	76.40	8.01	2.90	12.50	145.25	5.00	339.00	13.53	4.90	29.10	5290	698.00	0.00	Tipping Bucket
9/12/2007	60.88	45.20	84.90	27.08	26.97	27.22	52.74	20.20	75.70	11.90	7.30	17.00	242.25	142.00	341.00	10.63	5.50	21.30	5147	694.00	0.00	Tipping Bucket
9/13/2007	43.87	39.10	47.80	27.34	27.24	27.44	54.33	45.20	68.40	15.43	5.90	21.00	304.38	277.00	343.00	10.38	8.10	12.20	3778	673.00	0.00	Tipping Bucket
9/14/2007	44.89	28.50	61.50	27.45	27.33	27.53	50.63	18.30	82.50	6.73	2.60	10.30	198.67	26.00	295.00	17.65	6.10	56.50	5409	714.00	0.00	Weighing Bucket
9/15/2007	58.47	35.00	78.90	27.20	27.14	27.32	38.54	16.00	71.20	6.40	2.30	10.90	226.71	22.00	334.00	17.99	3.20	49.30	5219	697.00	0.00	Weighing Bucket
9/16/2007	66.90	46.50	88.40	27.01	26.87	27.17	44.67	18.90	73.30	10.85	5.80	18.10	196.33	160.00	235.00	7.08	3.10	11.40	4957	677.00	0.00	Tipping Bucket
9/17/2007	67.35	56.30	82.00	26.94	26.88	27.06	36.45	14.90	66.40	9.27	5.80	13.50	295.50	229.00	339.00	9.94	5.80	15.60	4277	583.00	0.00	Tipping Bucket
9/18/2007	52.82	48.00	62.20	27.21	27.08	27.31	66.23	40.10	85.90	8.33	3.60	13.50	288.04	9.00	358.00	10.04	4.00	17.80	2988	576.00	0.05	Tipping Bucket
9/19/2007	52.38	39.40	63.20	27.34	27.25	27.40	60.13	37.60	85.00	11.42	2.80	20.50	108.46	18.00	240.00	10.04	6.30	39.90	3304	622.00	0.00	Tipping Bucket
9/20/2007	58.87	46.30	71.20	27.01	26.91	27.22	63.49	42.70	89.70	7.93	1.80	13.40	201.67	36.00	349.00	14.31	5.40	61.10	4268	639.00	0.00	Tipping Bucket
9/21/2007	53.12	45.20	62.10	27.09	26.93	27.16	62.00	41.00	87.40	12.95	5.00	17.60	274.33	220.00	348.00	9.51	4.20	13.10	4325	576.00	0.19	Tipping Bucket
9/22/2007	64.38	41.20	90.50	27.00	26.90	27.13	41.48	11.70	75.90	9.65	4.00	13.50	179.08	15.00	332.00	9.05	3.50	35.60	4782	654.00	0.00	Tipping Bucket
9/23/2007	62.83	55.90	73.50	26.88	26.85	26.94	55.57	36.60	80.20	7.89	3.40	14.60	228.00	16.00	359.00	15.26	6.20	56.40	1992	516.00	0.03	Tipping Bucket
9/24/2007	47.43	43.20	57.10	27.16	26.91	27.34	80.48	67.00	86.50	14.26	7.30	18.70	295.04	200.00	324.00	10.49	8.80	28.70	1002	188.00	0.22	Tipping Bucket
9/25/2007	48.39	30.30	63.90	27.25	27.16	27.34	59.58	29.20	88.20	10.06	4.40	18.10	244.50	221.00	284.00	7.10	2.80	11.20	4324	600.00	0.00	Weighing Bucket
9/26/2007	54.87	45.40	64.50	27.15	27.13	27.17	49.79	32.90	66.80	10.80	5.20	14.60	257.46	223.00	287.00	8.45	2.80	16.70	3911	627.00	0.00	Tipping Bucket
9/27/2007	52.93	42.60	65.00	27.29	27.18	27.39	47.00	25.00	70.90	8.18	4.60	11.50	248.25	131.00	311.00	12.05	6.50	26.00	4536	639.00	0.00	Tipping Bucket
9/28/2007	61.37	47.00	79.40	26.98	26.80	27.22	38.49	18.40	60.10	10.09	4.80	16.20	157.79	78.00	210.00	10.85	5.80	29.20	4125	626.00	0.00	Tipping Bucket
9/29/2007	63.53	52.20	82.30	26.80	26.72	27.01	38.09	15.10	60.80	12.82	3.90	19.20	242.38	115.00	313.00	9.36	4.40	23.10	4065	621.00	0.00	Tipping Bucket
9/30/2007	50.70	41.00	62.10	27.23	27.09	27.29	55.43	29.50	80.30	10.02	3.20	16.30	278.54	202.00	321.00	11.47	4.70	22.00	4325	616.00	0.00	Tipping Bucket
10/1/2007	59.62	42.60	79.20	27.05	26.88	27.24	38.04	15.30	60.60	9.96	2.80	14.30	209.33	168.00	329.00	8.77	4.40	12.00	4095	573.00	0.00	Tipping Bucket
10/2/2007	55.58	42.50	64.30	27.04	26.93	27.11	37.47	22.90	50.40	14.25	6.90	18.20	275.08	228.00	313.00	8.86	3.80	13.20	4137	606.00	0.00	Tipping Bucket
10/3/2007	54.08	40.00	70.60	26.93	26.85	27.01	40.81	20.20	54.30	12.28	6.30	18.20	242.33	205.00	292.00	7.58	3.00	16.20	2968	592.00	0.00	Tipping Bucket
10/4/2007	49.80	43.40	54.70	27.15	27.03	27.22	52.80	42.70	64.80	6.82	4.10	11.70	155.42	18.00	351.00	10.55	5.20	24.80	1310	240.00	0.00	Tipping Bucket
10/5/2007	47.19	43.40	50.50	27.10	27.05	27.19	68.83	55.50	91.60	15.85	10.10	20.40	61.54	40.00	76.00	6.45	5.50	7.50	708	129.00	0.00	Tipping Bucket
10/6/2007	43.35	40.90	46.50	27.04	26.95	27.18	87.71	78.90	91.70	12.02	6.40	17.60	195.71	21.00	338.00	10.22	5.60	23.90	1169	211.00	0.23	Tipping Bucket
10/7/2007	43.86	35.30	52.90	27.24	27.16	27.29	74.03	52.60	88.70	5.28	1.20	9.60	267.29	92.00	342.00	18.68	8.10	55.10	2398	555.00	0.00	Weighing Bucket
10/8/2007	48.54	33.50	65.60	27.16	27.11	27.28	67.83	40.20	89.10	10.97	5.50	20.70	249.75	184.00	300.00	8.77	3.60	13.70	3232	526.00	0.00	Weighing Bucket
10/9/2007	44.69	38.00	54.90	27.47	27.31	27.55	75.98	55.50	90.60	7.42	5.10	9.50	219.38	0.00	360.00	10.11	3.50	22.60	2374	473.00	0.00	Tipping Bucket
10/10/2007	38.36	29.40	48.50	27.41	27.26	27.52	78.45	57.10	89.50	12.40	5.50	18.30	108.54	92.00	123.00	8.53	6.30	12.40	2866	548.00	0.00	Weighing Bucket
10/11/2																						

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
12/6/2007	13.55	7.50	23.00	27.07	27.01	27.12	70.20	54.40	84.20	11.02	7.80	14.00	277.17	237.00	306.00	8.48	5.20	9.90	1602	318.00	0.03	Weighing Bucket
12/7/2007	7.03	-4.10	19.20	27.26	27.14	27.43	62.06	43.00	72.60	9.22	4.90	15.90	278.83	234.00	323.00	8.75	5.00	13.50	1670	317.00	0.01	Weighing Bucket
12/8/2007	2.54	-6.50	16.70	27.51	27.45	27.57	68.04	54.10	75.40	5.23	1.50	8.20	254.33	95.00	360.00	15.46	5.20	48.90	1464	316.00	0.01	Weighing Bucket
12/9/2007	8.90	-4.40	28.40	27.33	27.12	27.52	67.97	45.80	78.20	8.98	5.70	14.50	219.88	192.00	245.00	7.25	4.00	32.00	1650	312.00	0.01	Weighing Bucket
12/10/2007	17.99	6.30	26.30	27.16	27.06	27.33	73.02	54.70	78.50	11.43	8.90	15.60	256.08	212.00	300.00	6.93	3.70	9.60	1105	304.00	0.03	Weighing Bucket
12/11/2007	20.71	9.90	28.00	27.37	27.30	27.42	72.29	56.90	80.70	9.64	5.30	14.10	265.58	223.00	332.00	8.01	3.60	11.70	1377	307.00	0.00	Weighing Bucket
12/12/2007	22.20	10.50	34.00	27.07	26.99	27.28	68.13	41.40	85.90	14.29	10.20	21.00	235.21	206.00	275.00	5.93	3.40	8.80	1002	265.00	0.05	Weighing Bucket
12/13/2007	23.23	14.80	29.40	27.20	27.02	27.36	68.15	61.90	74.60	14.71	4.30	22.60	274.96	78.00	351.00	9.40	7.70	19.50	696	146.00	0.00	Weighing Bucket
12/14/2007	18.97	6.00	34.20	27.33	27.28	27.37	69.40	47.40	80.00	7.69	3.90	12.40	198.25	64.00	258.00	9.03	3.10	29.90	1363	309.00	0.00	Weighing Bucket
12/15/2007	21.24	12.20	34.40	27.20	27.11	27.30	63.40	41.70	76.40	9.13	4.40	12.00	239.71	220.00	257.00	5.81	2.80	9.70	1573	302.00	0.00	Weighing Bucket
12/16/2007	26.35	15.60	40.60	27.08	27.07	27.11	59.23	38.80	72.00	12.00	8.00	16.80	242.63	218.00	259.00	5.90	3.60	9.80	1535	298.00	0.00	Weighing Bucket
12/17/2007	27.22	16.60	44.60	26.95	26.86	27.07	60.02	38.80	71.30	8.24	4.60	11.10	218.33	155.00	241.00	6.16	3.20	16.30	1379	300.00	0.00	Weighing Bucket
12/18/2007	28.53	21.10	41.90	27.03	26.92	27.08	57.49	36.20	68.20	9.87	5.90	13.90	244.04	227.00	270.00	5.42	3.20	9.50	1506	298.00	0.00	Weighing Bucket
12/19/2007	31.15	20.60	48.90	26.93	26.88	27.03	57.27	35.90	69.00	8.74	5.20	13.00	230.25	180.00	264.00	6.06	2.90	9.70	1307	293.00	0.00	Weighing Bucket
12/20/2007	32.41	23.10	50.90	26.82	26.76	26.89	61.03	34.00	76.50	8.73	4.00	13.60	223.96	208.00	239.00	8.90	3.20	52.60	1314	287.00	0.00	Weighing Bucket
12/21/2007	21.68	6.60	33.00	27.08	26.79	27.37	71.33	62.50	85.50	12.82	5.90	19.50	302.38	236.00	328.00	8.25	6.40	9.10	422	107.00	0.00	Weighing Bucket
12/22/2007	8.15	2.70	11.60	27.27	27.18	27.36	64.08	54.20	72.60	11.65	7.30	16.20	283.13	239.00	315.00	8.17	4.80	10.30	1228	279.00	0.00	Weighing Bucket
12/23/2007	12.76	-1.00	27.80	27.18	27.16	27.21	69.05	59.60	83.70	7.53	3.30	11.90	262.88	216.00	296.00	9.34	5.20	24.70	669	118.00	0.00	Weighing Bucket
12/24/2007	31.08	16.30	43.10	26.97	26.87	27.14	66.33	43.60	83.60	11.15	6.40	15.60	250.38	212.00	311.00	6.66	3.50	9.10	779	157.00	0.00	Weighing Bucket
12/25/2007	28.67	20.00	35.70	27.19	27.06	27.24	69.57	51.40	81.40	9.23	4.50	13.90	271.08	237.00	311.00	8.74	4.90	11.40	1561	312.00	0.00	Weighing Bucket
12/26/2007	22.47	15.20	33.60	27.11	27.06	27.21	71.78	47.60	82.10	4.96	2.80	10.70	189.29	90.00	265.00	10.69	3.30	32.30	1518	293.00	0.00	Weighing Bucket
12/27/2007	14.75	7.40	25.80	27.15	27.11	27.18	79.54	69.50	84.00	6.06	3.20	9.10	196.13	165.00	226.00	7.00	4.90	9.90	1081	212.00	0.00	Weighing Bucket
12/28/2007	14.01	2.90	31.90	27.04	26.96	27.16	66.58	31.30	82.50	5.86	3.90	9.30	225.25	203.00	242.00	6.11	3.10	14.40	1551	294.00	0.00	Weighing Bucket
12/29/2007	19.74	8.00	37.00	26.88	26.82	26.95	57.27	32.30	72.50	9.40	7.40	14.20	233.17	216.00	260.00	5.52	3.00	9.10	1072	250.00	0.00	Weighing Bucket
12/30/2007	20.22	9.60	30.20	26.86	26.80	26.95	65.71	53.50	75.70	6.99	5.00	9.60	265.29	216.00	352.00	8.78	3.70	25.80	1031	210.00	0.00	Weighing Bucket
12/31/2007	9.70	1.20	17.70	27.28	26.97	27.56	72.58	62.40	80.50	12.38	7.00	16.60	296.46	269.00	324.00	9.11	7.70	11.10	1138	277.00	0.00	Weighing Bucket
1/1/2008	6.46	-1.50	19.00	27.70	27.58	27.76	67.31	46.10	73.70	9.25	5.90	13.30	274.17	213.00	300.00	8.06	4.20	11.30	1574	302.00	0.00	Weighing Bucket
1/2/2008	19.18	3.60	34.40	27.42	27.04	27.73	55.36	25.30	77.40	13.80	4.30	24.00	199.88	173.00	251.00	7.37	4.70	18.10	1338	279.00	0.00	Weighing Bucket
1/3/2008	33.18	24.50	47.80	27.04	26.92	27.12	49.94	33.60	59.30	7.83	3.70	12.30	220.92	135.00	309.00	9.49	4.30	23.10	1251	243.00	0.00	Weighing Bucket
1/4/2008	36.01	24.90	54.40	26.80	26.63	26.90	48.15	23.40	63.70	10.63	6.40	15.40	220.54	186.00	274.00	7.13	3.50	23.50	1608	307.00	0.00	Weighing Bucket
1/5/2008	38.76	30.90	49.30	26.54	26.49	26.61	61.25	52.90	71.80	11.52	6.60	18.90	231.67	200.00	278.00	7.36	4.30	21.70	268	83.00	0.00	Weighing Bucket
1/6/2008	32.37	23.00	42.70	26.74	26.63	26.80	59.64	32.20	87.80	10.99	3.10	16.30	229.17	198.00	256.00	7.30	3.40	33.60	1689	315.00	0.00	Weighing Bucket
1/7/2008	28.09	19.40	37.50	26.92	26.81	27.07	50.67	35.40	61.20	9.03	4.00	14.40	267.54	226.00	301.00	9.03	4.20	26.10	1266	283.00	0.00	Weighing Bucket
1/8/2008	22.88	12.70	37.40	27.09	26.98	27.17	53.83	33.40	66.20	6.85	3.60	9.60	225.54	172.00	263.00	7.49	3.90	14.60	1648	316.00	0.00	Weighing Bucket
1/9/2008	24.43	14.60	38.10	26.97	26.93	27.07	57.89	36.10	74.40	8.60	6.70	11.10	245.58	195.00	294.00	7.35	3.50	13.50	1362	313.00	0.00	Weighing Bucket
1/10/2008	23.11	7.70	37.80	26.98	26.79	27.11	62.19	34.70	80.30	6.68	3.10	10.90	236.88	156.00	290.00	9.08	4.30	26.00	1541	315.00	0.01	Weighing Bucket
1/11/2008	23.74	14.30	30.70	26.90	26.76	27.13	71.73	58.50	82.00	9.04	3.70	14.30	233.96	1.00	357.00	7.88	4.20	10.40	680	122.00	0.01	Weighing Bucket
1/12/2008	21.05	14.60	30.00	27.21	27.14	27.25	73.30	61.20	81.20	5.30	1.30	12.40	208.17	65.00	255.00	11.68	3.30	35.00	1200	238.00	0.00	Weighing Bucket
1/13/2008	20.67	15.20	28.90	27.30	27.18	27.43	76.56	64.90	84.10	7.21	2.90	12.60	171.83	43.00	355.00	11.17	5.90	24.80	1717	321.00	0.00	Weighing Bucket
1/14/2008	23.95	7.00	44.70	27.28	26.96	27.46	70.86	40.20	87.20	7.05	1.30	14.10	200.54	164.00	221.00	9.47	4.20	37.60	1581	323.00	0.00	Weighing Bucket
1/15/2008	28.75	14.20	42.80	26.86	26.72	27.15	65.45	48.40	79.00	15.69	10.00	22.20	265.21	210.00	324.00	7.09	4.20	9.50	674	196.00	0.03	Weighing Bucket
1/16/2008	7.05	-1.20	14.10	27.30	27.19	27.38	58.40	37.50	67.40	14.51	7.90	21.50	283.92	235.00	309.00	7.75	3.70	10.00	1833	348.00	0.00	Weighing Bucket
1/17/2008	15.05	1.30	27.10	27.00	26.85	27.22	74.22	67.70	81.70	12.23	8.90	19.60	279.17	220.00	351.00	7.43	3.80	10.30	926	211.00	0.00	Weighing Bucket
1/18/2008	-3.95	-7.80	0.60	27.40	27.25	27.47	61.03	47.80	70.50	11.18	7.40	15.80	293.33	246.00	314.00	8.43	7.10	9.80	1903	356.00	0.01	Weighing Bucket
1/19/2008	3.69	-6.30	18.00	27.36	27.30	27.43	59.93	43.60	70.40	8.61	2.90	14.10	216.08	69.00	262.00	8.02	5.00	12.00	1827	333.00	0.00	Weighing Bucket
1/20/2008	2.53	-6.70	14.20	27.46	27.39	27.54	68.31	50.60	74.60	4.98	1.80	10.40	153.00	18.00	342.00	18.47	4.80	50.40	1223	229.00	0.00	Weighing Bucket
1/21/2008	-0.19	-5.40	8.20	27.44	27.29	27.53	62.97	53.20	68.80	10.41	3.60	18.20	254.42	13.00	331.00	8.17	5.50	11.60	1657	324.00	0.00	Weighing Bucket
1/22/2008	12.20	-3.10	23.60	27.13	27.03	27.27	66.15	53.20	84.00	14.55	8.40	19.70	266.71	236.00	335.00	7.88	5.70	12.00	1356	299.00	0.00	Weighing Bucket
1/23/2008	-0.06	-7.50	10.60	27.34	27.19	27.40	68.87	57.10	76.50	10.12	7.10	14.90	253.54	14.00	356.00	7.65	2.70	11.00	2040	377.00	0.00	Weighing Bucket
1/24/2008	12.70	-5.10	32.00	27.14	27.08	27.24	60.88	39.00	74.30	7.86	3.10	14.90	186.71	3.00	308.00	8.61	3.50	25.60	2124	377.00	0.00	Weighing Bucket
1/25/2008	11.41	1.30	23.60	27.06	26.97	27.13	69.48	54.60	77.80	7.14	4.10	11.40	285.96	210.00	359.00	8.98	3.80	36.20	2214	429.00	0.00	Weighing Bucket
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TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	3/22/2008	31.08	20.90	37.80	27.64	27.51	27.69	60.50	39.20	77.30	9.08	5.50	12.20	298.88	5.00	359.00	10.10	5.40	16.30	3371	517.00	0.00
3/23/2008	28.73	10.40	44.50	27.48	27.14	27.69	55.25	26.70	83.30	11.61	3.80	24.00	165.63	40.00	210.00	9.29	4.20	15.10	4956	694.00	0.00	Weighing Bucket
3/24/2008	42.02	30.60	56.50	26.93	26.85	27.11	31.20	6.50	53.60	21.23	11.70	32.90	246.63	180.00	299.00	7.97	5.20	10.30	3601	611.00	0.00	Weighing Bucket
3/25/2008	34.61	26.80	44.00	27.12	26.99	27.23	45.10	31.10	59.60	13.86	2.90	19.00	291.75	232.00	326.00	9.95	4.20	21.80	3987	614.00	0.00	Weighing Bucket
3/26/2008	31.89	18.20	45.40	27.20	27.13	27.25	45.17	18.50	72.60	7.87	3.80	13.90	185.58	98.00	242.00	14.00	3.30	49.80	3244	499.00	0.00	Weighing Bucket
3/27/2008	31.44	27.10	37.60	27.17	27.14	27.22	67.62	51.50	84.90	16.36	10.80	23.80	181.79	164.00	199.00	7.28	5.20	9.80	3725	600.00	0.00	Weighing Bucket
3/28/2008	32.51	24.30	42.90	27.16	27.13	27.22	61.30	28.30	83.20	11.66	4.70	19.30	221.58	158.00	275.00	8.98	4.20	22.70	2640	390.00	0.00	Weighing Bucket
3/29/2008	33.93	18.90	50.50	26.89	26.73	27.13	55.16	38.60	78.80	14.72	3.70	27.00	188.79	57.00	299.00	9.90	5.10	31.50	3138	499.00	0.00	Weighing Bucket
3/30/2008	29.75	23.20	38.30	27.26	27.13	27.34	53.18	27.60	76.50	10.66	7.10	19.30	190.17	8.00	328.00	12.01	4.10	29.70	4443	680.00	0.00	Weighing Bucket
3/31/2008	27.03	21.80	32.50	27.29	27.22	27.40	75.90	58.00	86.00	8.21	2.80	12.60	103.83	33.00	311.00	8.81	3.70	29.20	2302	355.00	0.00	Weighing Bucket
4/1/2008	29.08	15.10	42.60	27.36	27.27	27.42	66.33	30.90	87.50	8.11	3.00	14.40	212.71	47.00	337.00	10.84	3.20	28.60	4355	628.00	0.00	Weighing Bucket
4/2/2008	33.70	18.30	47.60	27.21	27.16	27.27	49.68	21.00	84.50	9.70	5.20	16.60	252.83	224.00	294.00	8.91	2.80	20.70	4842	667.00	0.01	Weighing Bucket
4/3/2008	38.58	21.80	52.50	27.18	27.13	27.24	32.70	17.30	55.10	10.01	5.60	16.60	254.04	228.00	274.00	9.03	3.10	14.90	5837	758.00	0.00	Weighing Bucket
4/4/2008	42.36	27.10	58.00	27.02	26.95	27.12	35.10	19.00	59.00	11.56	6.00	18.50	242.00	42.00	359.00	7.53	2.60	13.80	5229	724.00	0.00	Weighing Bucket
4/5/2008	29.34	24.10	33.80	26.97	26.94	27.03	76.28	61.60	86.70	14.71	4.70	22.50	52.54	39.00	92.00	6.41	5.00	12.80	2065	249.00	0.00	Weighing Bucket
4/6/2008	29.40	16.00	45.70	27.16	27.04	27.21	48.58	14.90	83.40	7.09	4.30	9.00	102.42	4.00	360.00	16.29	5.00	48.40	6023	777.00	0.00	Weighing Bucket
4/7/2008	34.92	18.20	51.80	27.18	27.14	27.20	30.80	9.60	57.30	11.33	5.10	18.40	175.17	151.00	206.00	8.53	4.50	15.00	6089	772.00	0.00	Weighing Bucket
4/8/2008	38.05	29.70	46.20	27.18	27.16	27.21	67.52	52.10	82.40	12.03	7.80	16.20	167.46	153.00	186.00	8.89	6.40	12.50	2778	532.00	0.00	Weighing Bucket
4/9/2008	40.71	31.70	51.60	27.12	27.07	27.17	68.92	47.70	87.10	13.18	5.20	21.30	137.88	73.00	165.00	9.30	6.30	19.50	2995	572.00	0.06	Weighing Bucket
4/10/2008	39.50	36.30	44.20	27.15	27.11	27.18	77.74	61.50	86.90	12.21	6.20	17.60	135.67	16.00	351.00	7.63	5.70	9.90	2187	276.00	0.01	Tipping Bucket
4/11/2008	40.05	33.20	49.90	27.26	27.17	27.35	71.49	44.40	86.90	12.15	7.10	20.10	339.79	299.00	356.00	9.75	7.90	12.20	3947	532.00	0.03	Weighing Bucket
4/12/2008	39.13	30.40	49.70	27.44	27.35	27.53	62.68	34.10	87.50	12.69	7.40	22.20	270.38	0.00	359.00	9.25	5.00	12.30	4989	626.00	0.00	Weighing Bucket
4/13/2008	43.83	22.70	60.50	27.43	27.27	27.52	47.08	18.20	81.20	6.43	4.60	10.90	215.42	146.00	312.00	16.93	3.00	52.10	6361	794.00	0.00	Weighing Bucket
4/14/2008	58.96	39.40	77.80	26.99	26.72	27.24	33.69	14.00	52.70	15.57	9.40	21.80	194.58	165.00	205.00	7.08	4.70	11.60	5669	813.00	0.00	Tipping Bucket
4/15/2008	54.63	43.20	66.30	26.66	26.53	26.87	48.06	30.00	77.10	13.78	7.10	20.20	281.33	217.00	346.00	8.80	3.30	12.70	5491	775.00	0.00	Tipping Bucket
4/16/2008	44.04	30.90	51.70	27.08	26.88	27.24	50.43	24.40	82.60	12.04	7.00	16.90	298.79	246.00	343.00	10.22	3.90	16.70	5562	791.00	0.00	Weighing Bucket
4/17/2008	42.93	26.50	57.30	27.21	27.13	27.27	45.13	19.50	79.20	9.48	6.40	12.80	237.25	216.00	251.00	8.69	2.60	18.50	5126	666.00	0.00	Weighing Bucket
4/18/2008	52.50	30.50	70.50	27.04	26.97	27.12	31.11	12.00	59.60	9.68	3.20	14.70	216.04	96.00	287.00	11.94	2.40	39.60	6340	810.00	0.00	Weighing Bucket
4/19/2008	56.26	43.10	70.10	26.99	26.91	27.04	31.05	16.10	45.90	18.79	8.40	26.40	148.50	104.00	192.00	8.18	5.90	10.60	5730	804.00	0.00	Tipping Bucket
4/20/2008	43.45	26.80	56.80	26.88	26.76	27.10	52.73	39.40	67.10	19.96	13.00	30.90	221.29	112.00	298.00	9.10	7.20	12.10	3647	517.00	0.02	Weighing Bucket
4/21/2008	31.97	19.10	44.70	27.21	27.13	27.25	41.25	17.60	70.70	11.83	3.80	16.60	251.42	133.00	288.00	11.46	4.90	19.30	6802	837.00	0.03	Weighing Bucket
4/22/2008	43.42	33.00	54.50	27.19	27.13	27.29	28.38	10.10	52.90	16.03	5.30	28.40	239.46	158.00	340.00	9.99	6.30	30.80	5902	836.00	0.00	Weighing Bucket
4/23/2008	33.37	21.80	45.20	27.21	27.06	27.33	53.59	25.90	84.70	14.28	5.60	22.90	74.54	2.00	340.00	7.63	5.00	15.90	3848	693.00	0.00	Weighing Bucket
4/24/2008	32.13	29.40	36.90	27.16	27.04	27.31	82.40	68.50	90.00	13.19	8.50	17.10	57.54	1.00	359.00	8.05	5.80	10.50	1479	284.00	0.04	Weighing Bucket
4/25/2008	34.96	25.60	45.90	27.25	27.17	27.32	63.73	40.50	87.30	5.79	2.70	8.60	211.13	2.00	358.00	16.52	3.80	41.90	5008	673.00	0.02	Weighing Bucket
4/26/2008	33.49	27.40	39.40	27.35	27.19	27.46	60.00	34.90	79.80	15.84	6.80	21.20	304.54	251.00	328.00	9.06	5.70	12.70	4696	706.00	0.07	Weighing Bucket
4/27/2008	38.45	21.80	52.70	27.37	27.31	27.42	42.02	20.00	79.30	11.83	6.20	18.10	245.17	6.00	341.00	9.64	4.20	16.10	6611	837.00	0.00	Weighing Bucket
4/28/2008	43.74	25.30	60.50	27.22	27.05	27.35	38.66	18.30	64.80	11.90	4.40	16.90	157.88	110.00	185.00	9.96	6.20	14.80	5662	819.00	0.00	Weighing Bucket
4/29/2008	58.67	33.00	79.50	26.90	26.73	27.04	35.38	10.90	66.20	12.83	5.30	20.80	170.67	116.00	208.00	15.18	4.50	67.00	6265	844.00	0.03	Weighing Bucket
4/30/2008	57.39	46.40	70.00	26.71	26.63	26.85	51.48	33.40	67.60	11.12	4.90	19.40	226.13	64.00	348.00	15.84	8.10	48.20	5167	686.00	0.00	Tipping Bucket
5/1/2008	43.30	37.30	50.50	26.89	26.83	27.04	67.42	56.50	81.60	19.58	8.60	29.50	93.13	12.00	357.00	6.72	5.30	11.00	424	78.00	0.22	Tipping Bucket
5/2/2008	40.63	29.50	52.00	27.21	27.05	27.31	37.13	14.50	58.80	21.06	7.40	27.90	104.04	0.00	358.00	8.19	5.20	12.70	6917	859.00	0.01	Weighing Bucket
5/3/2008	46.42	30.40	59.30	27.20	27.11	27.29	41.43	20.80	68.70	10.33	7.80	13.00	273.63	243.00	302.00	11.10	5.30	22.60	7031	858.00	0.00	Weighing Bucket
5/4/2008	54.09	40.30	66.60	27.16	27.12	27.20	39.13	20.40	62.00	11.87	8.70	14.40	280.29	256.00	310.00	10.47	5.80	17.80	7003	879.00	0.00	Tipping Bucket
5/5/2008	58.47	38.60	73.00	27.15	27.07	27.20	37.00	17.60	70.40	9.93	3.10	15.80	252.67	101.00	349.00	11.44	3.10	22.90	6305	807.00	0.00	Tipping Bucket
5/6/2008	53.23	43.10	61.50	27.03	26.99	27.09	49.50	36.50	78.30	9.74	2.80	19.30	67.21	28.00	213.00	11.44	5.20	48.50	5180	836.00	0.00	Tipping Bucket
5/7/2008	50.56	37.50	62.00	27.11	27.08	27.14	61.80	36.40	86.50	6.83	3.30	14.20	133.58	10.00	271.00	15.09	3.50	37.10	3564	697.00	0.00	Tipping Bucket
5/8/2008	45.74	40.80	49.90	27.08	27.05	27.12	79.39	70.60	88.80	8.53	4.80	12.30	154.38	108.00	208.00	8.14	3.00	11.30	2591	422.00	0.10	Tipping Bucket
5/9/2008	43.63	32.40	49.90	27.10	27.06	27.13	78.95	64.80	90.90	12.23	5.70	19.70	146.67	26.00	210.00	8.33	4.70	15.30	1846	227.00	0.39	Weighing Bucket
5/10/2008	39.87	31.20	51.10	27.26	27.13	27.32	65.88	32.00	89.60	12.61	4.90	25.20	216.13	0.00	351.00	9.83	3.10	17.90	6247	849.00	0.05	Weighing Bucket
5/11/2008	51.43	32.30	70.20	26.99	26.81	27.22	55.38	24.70	85.00	12.58	5.80	20.40	171.79	1.00								

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	7/7/2008	71.48	57.40	83.80	27.09	27.04	27.19	46.10	21.90	82.60	12.67	4.30	20.00	280.54	196.00	349.00	10.00	4.70	24.30	7022	846.00	0.00
7/8/2008	66.97	54.60	79.20	27.23	27.19	27.29	45.13	22.80	74.50	9.84	3.80	16.30	278.00	11.00	340.00	10.76	4.20	22.50	6677	877.00	0.00	Tipping Bucket
7/9/2008	73.13	52.60	89.90	27.18	27.06	27.29	34.20	15.10	57.10	9.97	4.70	16.80	210.83	40.00	300.00	12.48	2.70	27.30	6199	713.00	0.00	Tipping Bucket
7/10/2008	77.90	55.80	97.60	26.96	26.82	27.08	37.85	6.40	84.80	11.16	2.00	18.20	187.42	18.00	317.00	13.55	3.70	64.00	7525	888.00	0.00	Tipping Bucket
7/11/2008	66.93	56.70	73.10	27.03	26.78	27.26	36.93	21.20	57.30	18.38	7.10	33.00	282.13	227.00	322.00	8.85	4.20	14.00	6733	885.00	0.00	Tipping Bucket
7/12/2008	63.93	50.50	74.10	27.27	27.25	27.31	38.65	28.30	54.90	18.65	5.80	29.90	287.08	249.00	324.00	8.18	4.00	11.10	6647	840.00	0.00	Tipping Bucket
7/13/2008	71.17	47.80	87.20	27.21	27.10	27.31	31.22	10.90	64.20	7.05	3.00	11.00	260.83	106.00	318.00	17.98	3.50	41.50	7499	875.00	0.00	Tipping Bucket
7/14/2008	77.39	55.40	93.50	27.07	27.01	27.14	27.08	9.30	54.60	11.67	6.20	16.40	231.04	3.00	328.00	9.57	3.60	16.40	7481	875.00	0.00	Weighing Bucket
7/15/2008	74.66	55.10	90.60	27.19	27.14	27.23	47.95	22.80	82.50	11.69	2.90	24.90	88.75	38.00	169.00	15.64	5.40	51.10	6923	875.00	0.00	Tipping Bucket
7/16/2008	76.62	64.30	89.70	27.24	27.22	27.29	44.25	17.40	79.00	9.88	5.30	15.30	181.58	12.00	353.00	17.80	4.90	46.50	6905	811.00	0.02	Tipping Bucket
7/17/2008	71.98	61.90	81.50	27.29	27.26	27.31	47.40	26.80	70.90	7.46	2.60	12.20	120.58	3.00	341.00	19.81	5.60	49.00	6585	784.00	0.00	Tipping Bucket
7/18/2008	67.50	57.80	83.40	27.21	27.12	27.30	65.76	34.20	84.40	11.44	3.50	21.50	133.00	23.00	219.00	12.23	4.20	34.20	5127	809.00	0.30	Tipping Bucket
7/19/2008	70.19	56.90	88.50	27.11	27.06	27.19	64.64	19.80	90.90	7.63	2.10	21.20	185.92	3.00	357.00	19.90	5.10	58.30	6503	844.00	0.00	Tipping Bucket
7/20/2008	70.30	54.50	87.80	27.23	27.18	27.26	57.01	19.80	85.60	8.67	5.00	17.80	163.21	4.00	354.00	14.76	3.70	53.60	6032	863.00	0.42	Tipping Bucket
7/21/2008	72.26	56.70	89.50	27.24	27.18	27.28	62.47	29.90	90.10	8.13	3.40	16.60	100.83	27.00	131.00	12.63	5.60	29.10	7140	848.00	0.00	Tipping Bucket
7/22/2008	77.54	65.80	91.20	27.17	27.10	27.23	59.54	34.40	79.80	19.18	9.70	24.80	155.25	140.00	170.00	7.98	6.40	10.30	6080	774.00	0.00	Tipping Bucket
7/23/2008	78.62	67.60	90.50	27.11	27.05	27.15	52.16	23.40	81.70	13.91	3.80	24.30	237.67	141.00	351.00	10.10	4.20	15.60	6885	835.00	0.02	Tipping Bucket
7/24/2008	71.17	60.00	79.80	27.23	27.16	27.31	56.93	39.90	78.20	8.95	5.60	14.30	278.71	4.00	351.00	11.32	6.10	21.60	5539	803.00	0.00	Tipping Bucket
7/25/2008	71.60	57.00	84.80	27.35	27.31	27.40	45.30	23.10	76.20	7.57	5.00	9.40	210.00	1.00	355.00	15.95	4.90	43.30	6582	844.00	0.00	Tipping Bucket
7/26/2008	73.36	58.40	88.30	27.21	27.08	27.34	51.36	37.80	67.00	11.87	6.10	17.20	85.54	46.00	129.00	8.72	5.30	14.20	5694	827.00	0.00	Tipping Bucket
7/27/2008	77.28	64.30	91.00	27.07	27.02	27.22	50.13	25.80	79.60	8.26	4.00	18.80	138.46	21.00	337.00	21.67	4.00	51.80	6605	856.00	0.20	Tipping Bucket
7/28/2008	75.94	67.60	89.30	27.04	26.95	27.11	58.57	16.50	90.00	11.35	5.80	19.90	188.83	37.00	328.00	12.54	5.60	39.30	5882	809.00	0.00	Tipping Bucket
7/29/2008	73.04	54.30	87.30	27.15	27.10	27.20	39.69	19.30	73.00	7.68	2.90	12.00	246.38	10.00	348.00	14.38	4.40	37.30	6962	835.00	0.00	Tipping Bucket
7/30/2008	75.53	58.90	93.90	27.03	26.92	27.13	47.07	27.90	66.50	10.81	4.70	18.60	132.54	26.00	340.00	12.85	7.20	41.10	6153	824.00	0.00	Tipping Bucket
7/31/2008	72.25	59.50	83.90	27.14	27.04	27.21	42.06	11.40	85.90	9.06	3.50	13.10	233.71	11.00	347.00	14.24	4.50	36.30	7037	850.00	0.00	Tipping Bucket
8/1/2008	79.42	60.80	96.20	27.08	26.96	27.17	42.31	18.20	61.10	16.67	7.60	24.00	167.63	137.00	197.00	8.05	5.10	12.60	6732	832.00	0.00	Tipping Bucket
8/2/2008	78.81	69.10	89.60	27.01	26.93	27.08	48.00	21.80	70.60	13.53	3.70	24.60	111.83	5.00	351.00	12.35	6.20	35.00	6629	821.00	0.00	Tipping Bucket
8/3/2008	71.39	59.70	81.90	27.13	26.99	27.21	60.00	35.60	83.60	10.33	4.50	18.20	192.21	1.00	337.00	13.73	4.90	30.60	6418	873.00	0.09	Tipping Bucket
8/4/2008	69.47	61.30	79.30	27.27	27.21	27.35	54.06	25.00	85.50	9.16	3.20	14.00	264.58	113.00	312.00	13.47	5.10	45.30	6100	836.00	0.04	Tipping Bucket
8/5/2008	71.26	54.40	86.80	27.36	27.31	27.41	36.80	15.00	62.60	6.76	2.90	11.50	173.75	10.00	332.00	23.49	3.00	59.00	6840	843.00	0.00	Tipping Bucket
8/6/2008	74.00	56.80	88.70	27.39	27.36	27.41	41.67	19.20	70.90	8.34	4.90	15.00	165.21	4.00	360.00	17.00	4.20	52.90	5917	824.00	0.00	Tipping Bucket
8/7/2008	75.71	61.20	90.60	27.33	27.21	27.41	48.03	29.00	68.30	12.25	7.80	17.10	121.17	66.00	173.00	10.74	4.50	23.90	5883	776.00	0.00	Tipping Bucket
8/8/2008	79.68	65.80	94.00	27.12	27.03	27.21	48.84	24.70	74.90	11.33	5.00	17.20	145.08	52.00	215.00	12.88	6.00	34.30	4241	752.00	0.00	Tipping Bucket
8/9/2008	71.40	65.00	80.30	27.14	27.09	27.20	69.80	51.90	80.40	12.55	5.50	18.20	87.63	34.00	151.00	8.11	5.00	24.90	3492	611.00	0.00	Tipping Bucket
8/10/2008	71.39	65.60	82.80	27.14	27.09	27.20	74.43	58.10	85.00	13.66	5.50	23.30	160.42	56.00	205.00	12.57	4.70	31.70	3680	775.00	1.11	Tipping Bucket
8/11/2008	70.00	63.00	79.80	27.12	27.09	27.15	61.87	33.80	86.60	9.03	4.50	14.00	273.83	151.00	343.00	14.06	3.50	33.30	5128	790.00	0.04	Tipping Bucket
8/12/2008	69.58	54.50	82.90	27.13	27.09	27.15	42.08	19.50	71.00	8.38	4.50	13.00	272.08	217.00	336.00	11.87	3.30	26.40	6711	813.00	0.00	Tipping Bucket
8/13/2008	70.90	52.40	87.30	27.15	27.12	27.22	38.95	16.40	70.00	10.45	3.30	16.60	267.42	214.00	338.00	9.60	3.80	17.50	6113	813.00	0.00	Tipping Bucket
8/14/2008	61.60	56.30	69.10	27.27	27.21	27.38	65.80	51.00	82.80	8.60	2.70	14.40	246.38	10.00	317.00	11.36	3.90	33.20	3535	608.00	0.08	Tipping Bucket
8/15/2008	65.10	50.90	78.40	27.46	27.39	27.49	62.84	35.30	90.70	5.23	1.80	8.20	242.54	109.00	354.00	22.14	3.30	60.10	6307	822.00	0.00	Tipping Bucket
8/16/2008	70.45	54.00	85.10	27.39	27.25	27.49	51.46	28.10	77.30	11.14	5.00	16.60	211.50	182.00	244.00	8.08	3.60	22.40	6519	794.00	0.00	Tipping Bucket
8/17/2008	75.17	57.60	91.80	27.18	27.12	27.25	44.19	17.80	77.30	10.37	3.90	15.90	233.96	22.00	353.00	11.20	3.00	45.00	6524	800.00	0.00	Tipping Bucket
8/18/2008	74.92	60.30	90.60	27.19	27.15	27.23	50.51	23.10	83.00	10.77	7.20	15.70	81.08	30.00	142.00	10.13	4.00	29.50	6299	770.00	0.00	Tipping Bucket
8/19/2008	76.26	60.60	90.10	27.09	27.01	27.17	44.10	24.00	68.10	13.75	7.00	20.30	158.42	127.00	196.00	8.53	5.70	19.70	6415	783.00	0.00	Tipping Bucket
8/20/2008	77.33	63.60	92.00	26.93	26.85	26.99	49.28	29.50	68.00	11.74	5.70	15.70	164.21	123.00	187.00	10.38	5.80	23.10	6134	754.00	0.00	Tipping Bucket
8/21/2008	77.22	62.20	91.50	26.83	26.77	26.87	46.55	19.70	75.90	11.25	5.30	22.10	151.29	0.00	359.00	16.30	5.80	26.00	5340	700.00	0.00	Tipping Bucket
8/22/2008	56.88	48.00	61.40	27.10	26.90	27.35	69.83	52.00	87.30	19.02	7.50	33.40	278.38	252.00	309.00	8.78	6.80	18.00	4090	600.00	0.16	Tipping Bucket
8/23/2008	59.68	40.50	77.20	27.39	27.35	27.44	52.78	22.40	85.30	6.68	4.70	8.00	179.83	12.00	342.00	16.90	4.00	53.00	6261	782.00	0.00	Tipping Bucket
8/24/2008	69.55	48.90	88.30	27.30	27.18	27.38	48.29	28.30	69.20	10.53	5.50	21.30	118.50	63.00	155.00	9.59	4.30	17.80	6007	752.00	0.00	Tipping Bucket
8/25/2008	76.69	63.00	91.80	27.08	26.95	27.18	56.75	32.50	79.80	15.53	7.70	19.50	157.92	136.00	179.00	8.56	6.10	13.30	5955	747.00	0.00	Tipping Bucket
8/26/2008	68.90	58.20	77.10	26.93	26.82	27.13	53															

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	10/22/2008	39.47	31.20	48.90	27.55	27.43	27.62	55.48	31.40	74.20	11.28	3.20	18.10	304.54	251.00	345.00	9.44	4.50	24.40	2833	462.00	0.00
10/23/2008	37.15	22.70	54.80	27.34	27.19	27.52	50.50	11.90	75.00	10.27	4.30	16.80	210.38	176.00	267.00	8.75	2.80	36.50	2783	476.00	0.00	Weighing Bucket
10/24/2008	42.61	31.90	56.80	27.17	26.97	27.27	48.76	18.70	69.60	9.64	4.10	12.20	241.63	6.00	337.00	9.63	3.20	41.40	2684	459.00	0.00	Weighing Bucket
10/25/2008	44.71	40.50	53.80	26.98	26.89	27.18	50.69	36.30	71.50	15.99	10.30	22.20	280.71	237.00	328.00	7.78	4.70	10.30	2140	410.00	0.00	Tipping Bucket
10/26/2008	31.70	23.40	39.00	27.52	27.20	27.72	33.45	27.00	41.40	24.11	10.90	32.30	297.83	282.00	312.00	8.16	7.20	9.10	3301	527.00	0.00	Weighing Bucket
10/27/2008	29.23	15.90	45.40	27.66	27.52	27.75	34.23	17.20	53.60	8.11	5.60	11.90	227.38	174.00	290.00	9.77	3.50	26.70	3233	518.00	0.00	Weighing Bucket
10/28/2008	43.60	27.20	65.10	27.47	27.41	27.51	38.18	16.80	55.90	7.63	2.90	11.20	255.88	217.00	349.00	7.52	2.30	28.40	3209	516.00	0.02	Weighing Bucket
10/29/2008	52.52	36.30	76.40	27.22	27.10	27.40	38.13	13.30	55.70	11.53	7.00	19.70	225.96	204.00	255.00	5.93	2.50	15.20	3096	505.00	0.00	Tipping Bucket
10/30/2008	51.70	41.90	67.90	27.23	27.09	27.46	44.82	20.10	62.00	11.03	2.60	16.80	268.29	112.00	332.00	9.77	3.90	43.50	2917	499.00	0.00	Tipping Bucket
10/31/2008	46.58	33.60	62.40	27.51	27.45	27.55	54.29	31.00	75.60	9.04	2.50	17.50	162.13	106.00	229.00	10.49	4.50	34.20	2258	427.00	0.00	Weighing Bucket
11/1/2008	49.67	36.20	68.60	27.32	27.22	27.43	56.46	30.50	78.60	9.04	3.10	16.10	226.75	159.00	314.00	10.08	2.70	35.90	2137	400.00	0.00	Tipping Bucket
11/2/2008	54.03	42.80	71.10	27.05	26.84	27.21	51.00	25.80	66.30	10.55	2.50	19.40	159.17	68.00	347.00	8.71	2.60	38.70	1966	366.00	0.00	Tipping Bucket
11/3/2008	50.76	37.90	58.20	26.91	26.80	27.02	60.65	41.40	82.00	14.36	6.80	24.30	243.46	182.00	276.00	6.72	3.10	9.80	1819	339.00	0.00	Tipping Bucket
11/4/2008	45.83	37.40	56.30	26.87	26.74	27.02	61.33	46.90	77.30	8.14	4.00	13.20	105.46	41.00	240.00	11.83	3.90	38.00	1850	377.00	0.00	Tipping Bucket
11/5/2008	38.48	30.30	44.90	26.84	26.72	26.95	87.23	77.60	89.90	13.62	5.10	24.80	207.79	0.00	358.00	7.77	4.90	9.80	144	45.00	0.44	Weighing Bucket
11/6/2008	26.69	23.50	30.00	27.14	26.96	27.23	84.04	78.70	87.00	26.35	22.60	30.60	333.58	322.00	346.00	6.37	5.40	9.00	804	136.00	0.08	Weighing Bucket
11/7/2008	21.49	18.70	24.40	27.25	27.22	27.31	79.36	76.70	84.20	15.83	11.00	25.20	323.00	307.00	339.00	6.43	5.30	8.00	1643	289.00	0.00	Weighing Bucket
11/8/2008	23.03	13.80	30.80	27.31	27.26	27.33	80.70	67.50	85.70	5.66	2.40	10.50	293.75	227.00	348.00	10.50	3.60	21.80	2256	449.00	0.00	Weighing Bucket
11/9/2008	14.80	9.50	23.50	27.20	27.15	27.25	74.07	56.90	81.40	6.35	2.20	11.50	145.42	50.00	234.00	8.94	4.00	37.60	2656	461.00	0.00	Weighing Bucket
11/10/2008	17.51	12.30	24.70	27.15	27.12	27.18	81.93	79.80	85.30	11.00	9.30	14.60	151.42	133.00	178.00	5.90	4.80	8.10	1343	255.00	0.00	Weighing Bucket
11/11/2008	32.04	25.50	41.10	27.10	27.05	27.14	81.89	72.30	85.50	10.50	7.20	15.50	208.88	175.00	233.00	4.96	2.80	8.10	1815	317.00	0.00	Weighing Bucket
11/12/2008	36.37	30.90	42.80	26.89	26.65	27.05	84.35	79.40	89.10	12.03	7.30	17.70	225.75	205.00	258.00	5.68	2.90	15.00	916	217.00	0.00	Weighing Bucket
11/13/2008	42.33	35.90	49.70	26.74	26.64	26.94	76.04	57.10	88.10	13.05	5.20	19.10	268.88	208.00	324.00	7.93	4.30	21.20	1694	356.00	0.01	Weighing Bucket
11/14/2008	30.55	28.10	35.70	27.28	26.95	27.51	76.51	72.30	83.60	17.31	10.10	23.60	300.42	281.00	328.00	7.40	7.00	8.30	597	105.00	0.00	Weighing Bucket
11/15/2008	30.03	17.00	40.60	27.32	27.16	27.50	72.33	59.90	81.80	10.64	6.10	15.60	245.92	206.00	301.00	6.20	3.80	8.60	1612	339.00	0.00	Weighing Bucket
11/16/2008	34.41	28.40	39.10	27.36	27.22	27.50	70.29	62.50	74.20	11.10	4.60	14.80	321.58	279.00	359.00	7.96	7.10	9.70	942	255.00	0.00	Weighing Bucket
11/17/2008	28.14	25.30	30.90	27.56	27.44	27.63	73.29	65.00	80.50	9.11	3.70	15.70	171.21	15.00	335.00	7.34	5.40	12.30	990	199.00	0.00	Weighing Bucket
11/18/2008	42.85	26.30	64.70	27.17	27.06	27.41	58.24	28.30	81.00	13.86	7.70	18.40	229.75	172.00	282.00	5.76	3.50	7.90	1482	337.00	0.00	Weighing Bucket
11/19/2008	31.51	23.70	42.10	27.48	27.15	27.75	74.05	61.40	83.90	12.53	8.30	17.00	317.21	272.00	345.00	7.99	6.90	9.80	553	121.00	0.00	Weighing Bucket
11/20/2008	20.08	16.00	27.20	27.81	27.58	27.92	67.84	52.60	76.80	9.16	3.70	16.10	258.33	16.00	345.00	11.64	5.10	32.60	1746	329.00	0.00	Weighing Bucket
11/21/2008	21.06	17.00	23.60	27.22	27.10	27.53	76.35	65.40	84.00	12.45	4.60	20.00	135.33	4.00	343.00	6.25	3.80	8.70	415	85.00	0.03	Weighing Bucket
11/22/2008	27.75	21.10	35.40	27.17	27.12	27.22	77.41	61.30	85.30	8.21	2.10	13.20	237.38	193.00	346.00	9.35	4.00	48.20	1489	302.00	0.00	Weighing Bucket
11/23/2008	33.18	26.10	39.50	27.30	27.17	27.40	65.22	56.90	73.10	11.03	7.40	13.40	273.46	256.00	304.00	6.34	4.70	8.70	1578	368.00	0.00	Weighing Bucket
11/24/2008	27.82	18.00	40.30	27.31	27.21	27.38	66.28	52.10	75.10	9.25	4.10	14.80	229.67	180.00	265.00	5.95	3.50	12.00	1639	321.00	0.00	Weighing Bucket
11/25/2008	34.53	25.00	46.50	27.20	27.16	27.24	59.24	45.20	71.60	9.17	3.30	14.40	254.25	218.00	305.00	8.53	4.00	27.50	1564	300.00	0.00	Weighing Bucket
11/26/2008	34.31	27.70	44.90	27.21	27.13	27.34	66.55	49.90	78.70	10.53	4.90	15.50	244.50	198.00	305.00	5.75	2.70	8.00	1077	208.00	0.00	Weighing Bucket
11/27/2008	28.33	21.40	40.50	27.34	27.21	27.42	68.78	40.20	79.20	10.88	5.20	16.50	250.08	209.00	281.00	6.24	3.40	8.30	1590	306.00	0.00	Weighing Bucket
11/28/2008	27.25	18.60	38.40	27.07	27.02	27.20	66.94	47.50	75.80	10.73	6.40	15.50	249.29	189.00	291.00	6.70	3.30	14.80	1291	252.00	0.00	Weighing Bucket
11/29/2008	28.75	22.80	35.70	27.05	27.01	27.09	74.51	64.80	81.80	12.05	9.30	16.50	290.79	253.00	316.00	7.66	6.70	9.40	719	201.00	0.00	Weighing Bucket
11/30/2008	28.81	22.50	35.00	27.15	27.04	27.23	72.37	66.30	77.60	14.18	5.00	21.40	304.04	249.00	338.00	7.14	3.80	8.20	336	72.00	0.00	Weighing Bucket
12/1/2008	29.13	16.30	42.40	27.00	26.70	27.22	70.80	47.30	82.50	11.16	6.60	16.10	232.25	188.00	295.00	6.34	3.80	15.60	1426	279.00	0.00	Weighing Bucket
12/2/2008	31.33	17.20	44.60	26.94	26.70	27.28	60.85	50.80	69.80	14.04	8.10	18.20	305.13	243.00	343.00	7.63	3.60	10.70	698	133.00	0.00	Weighing Bucket
12/3/2008	15.92	9.20	23.20	27.37	27.30	27.49	70.23	64.80	77.50	14.07	8.30	21.90	294.46	248.00	329.00	7.60	5.50	9.30	911	167.00	0.00	Weighing Bucket
12/4/2008	9.03	6.30	12.50	27.53	27.40	27.60	66.48	60.40	71.70	13.58	10.20	18.00	283.71	235.00	312.00	7.28	4.70	8.70	789	150.00	0.00	Weighing Bucket
12/5/2008	24.79	8.60	35.80	27.04	26.90	27.37	69.50	53.60	80.30	16.91	11.50	21.30	263.13	209.00	322.00	6.35	4.40	8.10	522	121.00	0.00	Weighing Bucket
12/6/2008	19.65	11.90	30.00	27.23	27.08	27.37	74.23	62.80	82.00	9.65	2.50	15.50	209.17	4.00	358.00	11.94	5.80	59.40	1101	285.00	0.00	Weighing Bucket
12/7/2008	31.26	19.90	40.00	26.94	26.87	27.04	80.35	73.10	85.40	9.31	2.70	19.00	204.54	2.00	293.00	8.65	3.70	21.70	1250	247.00	0.00	Weighing Bucket
12/8/2008	18.75	4.00	36.90	27.08	26.85	27.40	79.72	75.10	87.30	11.98	3.30	19.00	169.67	6.00	356.00	9.95	4.70	36.80	525	123.00	0.05	Weighing Bucket
12/9/2008	17.06	7.90	28.60	27.34	27.18	27.43	72.75	59.00	78.10	10.50	5.20	18.70	241.54	218.00	292.00	5.74	3.10	9.70	1565	307.00	0.00	Weighing Bucket
12/10/2008	35.05	24.90	41.20	27.17	27.06	27.24	67.19	62.20	76.00	13.68	8.30	17.80	258.42	210.00	291.00	6.75	4.50	9.80	1138	299.00	0.00	Weighing Bucket
12/11/2008	31.25	24.40	37.20	27.28	27.22	27.34	71.07	54.10	83.60	14.04	11.40	16.30	279.71	248.00	322.00	7.36	5.60					

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	2/6/2009	35.35	26.80	42.90	26.81	26.74	26.96	67.50	59.10	75.60	11.04	5.70	16.30	243.88	205.00	282.00	5.65	3.20	8.80	2190	376.00	0.00
2/7/2009	26.92	18.90	35.20	27.20	26.88	27.36	78.44	69.80	86.40	14.58	10.00	19.70	273.29	211.00	309.00	6.27	3.50	9.70	1241	222.00	0.01	Weighing Bucket
2/8/2009	28.96	19.40	36.80	27.12	26.84	27.31	77.15	64.00	86.40	10.20	3.00	14.90	163.04	39.00	235.00	7.72	2.80	35.20	2702	459.00	0.00	Weighing Bucket
2/9/2009	32.74	29.60	34.20	26.59	26.48	26.80	88.22	85.30	88.90	10.38	3.80	18.90	222.25	5.00	348.00	6.77	4.40	12.00	409	95.00	0.28	Weighing Bucket
2/10/2009	29.03	25.70	31.20	26.72	26.47	26.98	81.00	74.30	88.00	20.67	15.20	24.40	291.13	285.00	296.00	5.13	4.80	5.70	1245	224.00	0.06	Weighing Bucket
2/11/2009	23.65	17.10	29.70	27.04	26.98	27.14	73.34	64.30	79.70	16.07	12.00	20.80	281.92	261.00	296.00	5.05	3.60	5.70	2014	352.00	0.00	Weighing Bucket
2/12/2009	17.48	12.20	24.50	27.27	27.13	27.38	59.43	47.40	68.40	10.06	4.70	14.20	282.67	256.00	309.00	5.29	3.30	7.60	3124	506.00	0.00	Weighing Bucket
2/13/2009	11.73	2.70	23.10	27.41	27.38	27.43	66.62	53.00	79.80	4.87	2.80	6.90	181.08	9.00	309.00	12.86	2.80	34.70	2752	501.00	0.00	Weighing Bucket
2/14/2009	5.41	-2.90	12.70	27.38	27.34	27.40	72.57	68.00	77.60	5.17	1.00	10.60	87.63	42.00	183.00	11.39	3.90	38.10	2380	481.00	0.00	Weighing Bucket
2/15/2009	13.13	4.40	25.30	27.34	27.30	27.40	74.12	63.40	81.50	6.43	2.00	11.70	143.92	1.00	330.00	7.75	3.10	22.30	2671	451.00	0.00	Weighing Bucket
2/16/2009	12.22	4.60	19.20	27.12	26.97	27.30	77.69	75.00	80.40	6.13	1.80	10.30	124.63	51.00	186.00	8.55	4.60	25.00	2189	370.00	0.00	Weighing Bucket
2/17/2009	10.66	4.00	16.00	26.90	26.82	27.04	75.96	73.80	77.90	7.20	1.30	12.60	292.13	179.00	356.00	11.38	3.30	60.40	2398	429.00	0.00	Weighing Bucket
2/18/2009	10.42	2.10	22.40	27.24	27.05	27.31	70.30	48.90	77.00	6.92	1.40	11.60	286.63	147.00	349.00	6.26	2.30	14.80	3074	514.00	0.00	Weighing Bucket
2/19/2009	14.35	0.40	21.40	27.27	27.14	27.31	69.17	60.50	75.00	10.77	2.70	16.80	272.67	222.00	332.00	5.51	2.60	17.10	3036	526.00	0.00	Weighing Bucket
2/20/2009	14.69	2.20	25.40	27.23	27.02	27.43	73.76	68.70	81.60	15.51	3.70	23.90	291.67	41.00	358.00	6.83	4.80	18.20	2684	482.00	0.00	Weighing Bucket
2/21/2009	12.45	1.20	25.50	27.43	27.40	27.49	66.86	55.40	73.10	9.70	2.80	13.90	237.42	29.00	347.00	7.68	3.10	27.20	3462	544.00	0.00	Weighing Bucket
2/22/2009	10.21	2.70	16.80	27.52	27.46	27.57	66.95	54.50	76.50	8.55	2.60	13.80	135.58	65.00	235.00	8.17	3.60	20.80	3597	548.00	0.00	Weighing Bucket
2/23/2009	17.29	8.10	29.60	27.21	27.09	27.45	72.18	67.70	78.40	12.39	4.90	20.20	186.00	128.00	271.00	6.16	4.00	14.90	3292	515.00	0.00	Weighing Bucket
2/24/2009	22.75	12.30	35.20	27.02	26.94	27.10	79.80	74.10	83.80	6.42	3.00	11.60	207.13	30.00	359.00	15.28	3.50	43.30	2043	327.00	0.01	Weighing Bucket
2/25/2009	14.47	4.30	20.80	27.23	27.12	27.28	77.81	72.50	82.60	12.12	5.70	20.20	154.17	12.00	353.00	5.55	3.40	10.20	1941	339.00	0.00	Weighing Bucket
2/26/2009	0.26	-3.30	3.20	27.35	27.28	27.39	68.84	62.00	73.90	15.21	12.10	18.90	53.17	32.00	86.00	4.59	3.60	6.50	2710	472.00	0.00	Weighing Bucket
2/27/2009	-4.12	-8.50	2.40	27.46	27.36	27.54	65.46	57.60	69.00	11.48	6.50	17.00	142.71	79.00	239.00	5.09	3.60	8.40	2951	560.00	0.00	Weighing Bucket
2/28/2009	1.80	-9.10	12.90	27.66	27.53	27.76	65.36	52.10	73.10	8.46	2.50	15.40	234.58	1.00	332.00	8.87	3.80	33.80	4004	595.00	0.00	Weighing Bucket
3/1/2009	3.70	-6.80	14.80	27.49	27.31	27.75	67.47	61.70	72.90	15.35	3.20	26.60	168.29	134.00	187.00	5.63	3.60	18.70	3313	484.00	0.00	Weighing Bucket
3/2/2009	17.88	5.90	33.80	27.22	27.12	27.30	69.76	54.10	75.70	9.50	2.60	19.00	167.71	82.00	215.00	10.90	4.60	41.90	3823	593.00	0.00	Weighing Bucket
3/3/2009	28.41	13.30	45.20	26.99	26.94	27.12	69.20	56.00	77.50	9.78	5.00	16.80	213.83	154.00	287.00	11.50	3.20	53.30	3379	652.00	0.00	Weighing Bucket
3/4/2009	38.23	34.70	44.10	26.93	26.82	27.02	74.27	65.60	81.00	6.75	3.90	12.80	183.54	35.00	329.00	18.53	3.90	42.10	3283	515.00	0.00	Weighing Bucket
3/5/2009	35.25	29.80	41.90	26.85	26.77	27.03	78.43	64.60	86.80	7.30	4.50	13.80	262.67	186.00	317.00	8.12	4.50	18.10	2741	470.00	0.00	Weighing Bucket
3/6/2009	15.78	8.80	28.90	27.19	27.04	27.29	70.78	64.70	79.00	11.97	2.00	16.40	305.71	91.00	343.00	7.75	5.20	21.10	3025	539.00	0.00	Weighing Bucket
3/7/2009	17.33	4.40	29.20	27.08	26.95	27.28	76.80	72.00	81.80	13.28	2.00	25.30	175.63	32.00	219.00	6.29	2.60	21.90	3843	633.00	0.00	Weighing Bucket
3/8/2009	25.12	12.70	35.30	27.01	26.94	27.25	80.89	75.50	85.80	13.00	4.40	23.00	270.79	198.00	346.00	6.84	4.20	19.50	3406	614.00	0.00	Weighing Bucket
3/9/2009	2.43	-4.30	11.10	27.39	27.27	27.45	64.04	58.20	74.30	16.40	12.40	20.30	314.79	5.00	357.00	6.91	5.40	9.00	3466	532.00	0.00	Weighing Bucket
3/10/2009	-5.66	-11.30	0.10	27.42	27.38	27.53	63.75	58.00	67.50	11.65	6.10	13.80	228.17	2.00	358.00	6.52	4.30	9.60	3697	570.00	0.00	Weighing Bucket
3/11/2009	-6.69	-17.20	5.20	27.61	27.54	27.67	60.64	46.30	67.50	10.48	6.70	17.70	237.04	185.00	286.00	5.72	3.20	13.80	4709	670.00	0.00	Weighing Bucket
3/12/2009	8.39	-6.60	27.10	27.47	27.40	27.57	64.53	55.10	72.70	9.97	5.90	16.40	220.33	206.00	249.00	4.98	2.40	18.60	4732	672.00	0.00	Weighing Bucket
3/13/2009	23.26	7.60	38.70	27.25	27.04	27.41	67.23	57.10	75.60	13.33	7.40	18.50	222.71	207.00	239.00	3.71	2.80	5.10	4713	673.00	0.00	Weighing Bucket
3/14/2009	34.54	24.40	44.80	26.95	26.86	27.04	65.54	55.10	72.30	9.83	7.20	14.80	218.29	196.00	233.00	4.78	2.70	8.50	4747	687.00	0.00	Weighing Bucket
3/15/2009	38.47	27.20	52.90	26.83	26.77	26.91	63.68	45.90	73.80	7.48	2.50	12.70	222.17	152.00	275.00	11.30	3.70	54.80	4675	672.00	0.00	Weighing Bucket
3/16/2009	40.98	32.50	53.30	27.03	26.90	27.20	61.10	38.50	79.50	10.97	4.60	17.40	246.71	15.00	347.00	8.41	3.70	21.80	4257	659.00	0.00	Weighing Bucket
3/17/2009	37.49	30.90	47.20	27.26	27.18	27.36	70.78	42.80	85.90	10.85	5.20	17.10	256.96	224.00	347.00	6.93	3.60	15.10	4084	691.00	0.00	Weighing Bucket
3/18/2009	32.59	27.30	38.30	27.45	27.36	27.50	70.13	59.90	84.20	8.55	5.80	11.20	163.92	36.00	262.00	7.06	3.20	26.70	4693	639.00	0.01	Weighing Bucket
3/19/2009	33.47	26.50	40.80	27.37	27.21	27.50	80.36	74.30	84.70	11.13	4.80	16.80	175.13	148.00	207.00	7.25	4.10	26.30	4274	710.00	0.00	Weighing Bucket
3/20/2009	46.24	32.20	61.90	27.19	27.13	27.24	62.47	32.60	85.10	8.53	4.00	13.80	240.58	120.00	329.00	11.32	3.00	27.30	4982	683.00	0.00	Weighing Bucket
3/21/2009	44.98	36.90	55.00	27.17	27.04	27.25	69.20	59.40	83.50	11.55	4.90	20.70	129.88	69.00	196.00	8.60	5.70	19.70	4312	649.00	0.00	Tipping Bucket
3/22/2009	50.45	43.80	59.90	26.82	26.71	27.00	75.03	65.90	81.70	17.82	5.60	27.30	155.63	2.00	338.00	10.19	5.60	33.00	3735	620.00	0.00	Tipping Bucket
3/23/2009	30.13	21.90	42.50	26.93	26.85	26.98	80.65	74.80	84.20	22.75	12.00	29.50	339.92	325.00	356.00	7.70	5.40	10.40	653	171.00	0.35	Weighing Bucket
3/24/2009	21.50	17.90	23.80	27.02	26.94	27.06	77.07	68.40	83.30	25.07	15.90	30.80	323.75	313.00	339.00	5.13	4.60	5.70	3524	527.00	0.30	Weighing Bucket
3/25/2009	21.00	14.50	29.30	26.97	26.91	27.06	70.90	58.80	79.00	14.89	12.00	18.80	305.04	284.00	344.00	5.90	5.00	8.70	5023	731.00	0.00	Weighing Bucket
3/26/2009	19.21	12.80	26.50	27.29	27.08	27.44	68.23	53.90	77.50	17.00	7.80	23.80	325.00	297.00	340.00	5.28	3.80	6.20	5120	698.00	0.01	Weighing Bucket
3/27/2009	19.00	5.50	28.60	27.27	27.06	27.44	69.91	62.90	77.70	9.95	3.90	19.90	225.54	171.00	335.00	7.19	4.00	16.80	5500	750.00	0.00	Weighing Bucket
3/28/2009	31.15	20.70	44.30	27.03	27.00	27.05	67.79	46.80	77.90	8.86	5.20	16.40	198.92	1.00	339.00	6.49	3.50	11.90	5334	752.00	0.00	Weighing Bucket
3/29/2009	2																					

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
	6/25/2009	71.76	56.70	84.80	27.16	27.05	27.22	59.50	39.10	82.30	9.58	3.00	16.50	177.88	71.00	265.00	10.87	3.60	43.40	7185	907.00	0.00
6/26/2009	66.01	56.20	76.70	27.04	27.01	27.07	77.47	64.60	86.50	12.41	6.10	18.80	120.79	0.00	356.00	9.46	5.90	19.20	3211	529.00	0.42	Tipping Bucket
6/27/2009	61.04	53.30	69.80	27.18	27.09	27.26	63.89	38.90	86.70	12.77	5.60	20.80	286.63	261.00	349.00	8.97	6.30	13.20	5466	769.00	0.05	Tipping Bucket
6/28/2009	65.96	49.50	81.50	27.24	27.16	27.29	49.60	29.00	68.90	8.04	2.40	11.80	262.33	109.00	357.00	11.41	5.60	33.10	7170	923.00	0.00	Tipping Bucket
6/29/2009	67.30	55.00	79.00	27.15	27.12	27.22	64.61	51.10	82.30	9.36	5.10	13.80	138.96	48.00	336.00	8.56	3.20	27.10	6749	843.00	0.00	Tipping Bucket
6/30/2009	65.37	53.50	78.30	27.20	27.12	27.24	70.83	51.90	87.20	12.36	6.20	19.20	130.58	18.00	261.00	12.17	7.20	46.50	6237	904.00	0.09	Tipping Bucket
7/1/2009	66.16	54.40	77.20	27.20	27.13	27.28	72.53	57.50	85.60	6.38	2.20	12.50	149.21	50.00	359.00	13.60	4.10	28.20	4520	621.00	0.00	Tipping Bucket
7/2/2009	67.88	58.80	77.30	27.33	27.28	27.38	69.89	42.70	90.50	7.95	2.40	12.30	140.33	12.00	350.00	8.97	4.90	18.20	5613	897.00	0.00	Tipping Bucket
7/3/2009	62.75	56.30	69.40	27.35	27.33	27.39	78.73	66.20	89.10	9.95	3.00	14.80	84.54	45.00	128.00	8.55	5.70	14.40	4472	588.00	0.00	Tipping Bucket
7/4/2009	65.66	55.70	75.90	27.36	27.31	27.40	66.08	40.40	89.30	6.15	3.00	9.30	224.00	2.00	350.00	16.88	5.70	39.20	6427	919.00	0.00	Tipping Bucket
7/5/2009	65.37	54.60	78.10	27.29	27.20	27.36	65.43	46.40	81.10	7.63	2.00	16.70	174.21	36.00	252.00	13.48	4.00	55.40	4587	820.00	0.28	Tipping Bucket
7/6/2009	66.60	54.00	76.50	27.18	27.08	27.25	70.27	56.30	86.20	9.99	4.00	18.30	102.58	57.00	229.00	9.85	4.90	21.00	6114	803.00	0.00	Tipping Bucket
7/7/2009	64.79	58.50	74.00	27.11	27.04	27.17	77.29	60.10	88.40	9.57	5.40	20.30	67.04	1.00	127.00	12.96	7.30	37.80	5505	835.00	0.01	Tipping Bucket
7/8/2009	65.61	56.90	78.20	27.06	26.91	27.17	76.78	56.30	90.10	10.71	5.00	18.50	157.00	110.00	356.00	13.86	8.20	47.90	4812	870.00	0.38	Tipping Bucket
7/9/2009	64.33	51.90	74.90	27.14	27.06	27.25	58.70	30.80	86.90	11.58	4.90	18.30	268.04	233.00	302.00	8.26	5.00	12.10	6776	840.00	0.00	Tipping Bucket
7/10/2009	61.78	52.80	70.50	27.34	27.26	27.41	64.88	49.10	78.50	7.28	4.30	9.50	236.13	7.00	355.00	11.67	4.60	20.70	5820	772.00	0.00	Tipping Bucket
7/11/2009	63.94	49.70	79.80	27.37	27.27	27.44	70.36	50.20	87.50	8.08	2.80	12.90	138.92	56.00	227.00	11.65	7.50	19.70	6405	874.00	0.00	Tipping Bucket
7/12/2009	67.66	58.50	76.20	27.34	27.30	27.37	75.49	57.40	89.00	7.50	5.10	10.70	144.38	16.00	351.00	12.21	4.90	25.60	6289	898.00	0.01	Tipping Bucket
7/13/2009	63.47	60.10	67.70	27.20	27.00	27.34	84.50	75.00	89.70	13.40	5.70	21.10	133.58	95.00	164.00	10.14	8.00	17.50	2090	378.00	0.78	Tipping Bucket
7/14/2009	62.48	56.70	69.40	27.07	27.01	27.22	73.98	50.10	90.20	12.99	3.70	23.00	251.17	62.00	303.00	11.56	7.80	42.10	4817	606.00	0.09	Tipping Bucket
7/15/2009	58.55	49.30	68.30	27.32	27.23	27.37	63.25	40.90	85.40	9.58	5.30	14.10	302.75	257.00	356.00	9.92	4.80	14.60	6632	875.00	0.00	Tipping Bucket
7/16/2009	59.78	49.30	70.90	27.41	27.38	27.44	59.28	41.10	81.60	6.64	3.10	11.10	160.50	1.00	353.00	13.89	3.10	44.80	6753	898.00	0.00	Tipping Bucket
7/17/2009	61.61	45.50	73.50	27.46	27.44	27.48	58.09	36.40	81.70	4.39	2.00	5.80	155.13	20.00	359.00	18.89	3.20	47.20	6865	882.00	0.00	Tipping Bucket
7/18/2009	65.12	49.50	78.40	27.41	27.33	27.47	58.60	41.00	79.70	6.53	2.50	9.10	159.83	44.00	232.00	11.33	3.00	27.10	6622	868.00	0.00	Tipping Bucket
7/19/2009	70.54	54.80	85.60	27.14	27.02	27.31	58.71	50.10	70.80	11.98	7.40	18.80	190.33	164.00	235.00	7.52	5.40	9.00	5507	692.00	0.00	Tipping Bucket
7/20/2009	65.45	57.30	74.20	27.22	27.09	27.31	62.50	41.50	83.40	9.22	4.80	14.60	300.00	3.00	359.00	9.97	5.10	17.10	4573	832.00	0.01	Tipping Bucket
7/21/2009	65.45	51.80	75.70	27.29	27.24	27.31	52.87	33.00	76.90	7.94	2.80	10.70	250.29	7.00	345.00	10.16	3.60	17.30	6878	876.00	0.00	Tipping Bucket
7/22/2009	67.23	49.90	81.90	27.26	27.21	27.29	54.85	29.10	80.70	5.65	3.80	8.00	199.75	98.00	341.00	15.52	3.00	52.50	6350	869.00	0.00	Tipping Bucket
7/23/2009	74.13	55.70	92.30	27.13	27.07	27.22	50.11	17.80	75.60	11.21	7.00	16.10	197.63	14.00	352.00	6.86	4.10	11.90	6527	863.00	0.00	Tipping Bucket
7/24/2009	69.28	55.60	79.60	27.22	27.15	27.27	57.48	38.20	79.30	7.24	3.10	10.20	184.25	4.00	358.00	10.74	2.90	26.30	6047	825.00	0.00	Tipping Bucket
7/25/2009	72.02	57.80	84.90	27.30	27.28	27.32	54.77	32.00	76.50	5.89	2.80	10.40	196.42	5.00	357.00	15.37	4.20	50.80	6643	858.00	0.00	Tipping Bucket
7/26/2009	72.71	59.10	86.20	27.26	27.23	27.30	55.58	29.40	81.80	9.51	5.90	13.50	247.88	3.00	358.00	8.78	3.40	15.40	5729	850.00	0.00	Tipping Bucket
7/27/2009	68.26	58.70	76.70	27.30	27.27	27.32	56.71	33.60	75.90	9.71	5.80	14.70	253.75	0.00	355.00	10.08	2.90	15.40	5896	688.00	0.00	Tipping Bucket
7/28/2009	61.79	51.20	73.30	27.28	27.22	27.33	54.15	31.90	69.80	7.83	5.00	14.60	211.88	0.00	358.00	12.21	3.60	35.20	5601	714.00	0.00	Tipping Bucket
7/29/2009	55.46	50.50	64.50	27.24	27.22	27.28	77.58	53.30	89.10	8.33	3.10	18.70	252.92	2.00	346.00	10.24	7.20	13.70	4212	693.00	0.49	Tipping Bucket
7/30/2009	60.27	50.30	71.20	27.25	27.17	27.30	66.00	35.90	86.80	6.90	2.20	9.00	280.00	147.00	315.00	12.12	4.30	24.90	5539	813.00	0.00	Tipping Bucket
7/31/2009	56.85	49.20	64.90	27.14	27.03	27.29	67.26	50.20	84.50	11.98	6.50	19.80	280.29	215.00	333.00	7.70	3.30	12.40	3932	636.00	0.03	Tipping Bucket
8/1/2009	62.30	45.60	79.30	27.21	27.09	27.28	55.75	27.20	82.20	7.43	3.80	10.60	248.54	65.00	314.00	11.97	4.00	27.10	6715	855.00	0.00	Tipping Bucket
8/2/2009	67.64	53.90	81.40	27.03	26.97	27.10	58.00	39.40	80.30	10.06	4.00	18.50	277.00	208.00	334.00	10.06	3.30	35.10	5808	797.00	0.00	Tipping Bucket
8/3/2009	64.47	54.30	79.00	27.13	27.06	27.29	60.22	44.00	82.00	10.56	4.30	15.80	171.33	3.00	357.00	9.33	3.40	34.00	5634	809.00	0.00	Tipping Bucket
8/4/2009	56.94	45.20	68.50	27.32	27.29	27.36	68.54	49.50	84.00	5.87	2.50	10.90	119.54	29.00	294.00	17.76	3.50	61.80	3913	532.00	0.00	Tipping Bucket
8/5/2009	61.43	50.10	73.50	27.40	27.34	27.45	67.04	47.40	82.60	5.42	3.80	8.40	78.17	7.00	174.00	16.14	5.40	48.90	4404	603.00	0.00	Tipping Bucket
8/6/2009	59.82	53.40	72.10	27.23	27.07	27.39	81.80	64.60	90.40	11.12	6.00	17.50	109.75	69.00	151.00	9.35	4.70	12.60	2491	626.00	0.31	Tipping Bucket
8/7/2009	66.18	61.90	74.90	27.02	26.98	27.07	84.70	67.40	91.10	6.20	2.70	11.00	110.83	8.00	353.00	14.50	6.30	33.30	2774	440.00	0.04	Tipping Bucket
8/8/2009	61.05	57.00	66.30	27.17	27.09	27.22	79.57	60.70	89.80	8.97	5.30	12.30	305.13	257.00	335.00	9.68	4.90	19.00	3064	532.00	0.15	Tipping Bucket
8/9/2009	60.23	50.30	73.70	27.24	27.22	27.26	73.08	44.90	88.50	6.47	3.90	12.10	229.96	32.00	345.00	18.63	4.50	55.50	4047	759.00	0.04	Tipping Bucket
8/10/2009	66.55	51.20	81.70	27.28	27.25	27.30	59.88	29.70	84.50	5.20	2.30	8.00	227.17	91.00	328.00	18.75	3.80	41.80	6612	825.00	0.00	Tipping Bucket
8/11/2009	73.59	56.80	91.80	27.26	27.21	27.29	50.37	15.30	79.00	11.25	7.20	16.90	232.38	213.00	254.00	6.45	2.40	13.40	6507	816.00	0.00	Tipping Bucket
8/12/2009	77.75	58.70	95.70	27.17	27.11	27.22	42.66	12.00	72.30	10.51	7.40	14.70	212.88	173.00	239.00	7.05	2.60	13.00	6484	830.00	0.00	Tipping Bucket
8/13/2009	78.15	63.00	93.20	27.12	27.07	27.16	46.10	23.30	72.10	6.40	3.40	13.00	168.17	8.00	356.00	19.75	3.40	48.00	5961	787.00	0.00	Tipping Bucket
8/14/2009	68.69	59.90	77.80	27.10	27.04	27.16	74.64	57.30	87.60	11.41	4.80	20.70	109.71	7.00	352.00	11.83	5.80	33.10	3582	536.00	0.06	Tipping Bucket
8/15/2009	62.07	54.80	69.80	27.																		

TABLE 2.2-7

DAILY SUMMARIES OF METEOROLOGICAL DATA AT THE SOUTH HEART LIGNITE MINE STATION

Day	Air Temperature Deg F			Barometric Pressure in Hg			Relative Humidity %			Wind Speed mph			Wind Direction compass deg			Sigma compass deg			Solar Radiation W/m ²		Rain in	
	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Daily Sum	Max	Daily Sum	Method
10/10/2009	23.60	19.80	26.50	27.44	27.42	27.46	55.25	44.70	64.10	16.03	8.90	19.70	286.71	268.00	303.00	7.67	6.20	8.90	1314	221.00		
10/11/2009	24.54	20.20	29.70	27.37	27.31	27.44	61.55	39.80	84.40	5.63	2.40	9.10	199.83	43.00	285.00	17.25	3.20	74.00	1731	287.00		
10/12/2009	24.93	20.70	30.10	27.35	27.30	27.42	73.89	55.70	84.20	4.36	2.50	6.70	74.83	17.00	141.00	11.15	3.60	32.70	1289	212.00		
10/13/2009	28.40	23.50	32.30	27.38	27.32	27.42	79.03	68.70	85.60	14.52	4.70	20.10	118.42	100.00	137.00	7.83	6.60	8.60	649	102.00		
10/14/2009	31.40	28.20	34.30	27.12	27.04	27.29	86.95	84.20	88.70	7.15	1.00	15.60	161.04	19.00	358.00	9.49	6.90	30.00	460	96.00		
10/15/2009	34.45	31.30	38.10	27.27	27.13	27.36	82.16	75.00	88.80	4.66	1.90	7.20	231.67	2.00	352.00	13.43	7.10	36.90	979	216.00		
10/16/2009	35.05	27.10	38.20	27.46	27.35	27.54	78.02	66.20	88.20	7.40	2.60	12.40	228.29	2.00	348.00	10.44	4.00	26.30	1082	200.00		
10/17/2009	44.93	26.40	68.20	27.31	27.10	27.50	62.83	27.70	83.90	12.90	7.40	18.60	214.83	201.00	232.00	5.54	3.60	8.00	2814	464.00		
10/18/2009	54.26	42.30	71.40	27.02	26.96	27.13	51.76	28.30	77.00	12.95	9.40	17.90	267.25	220.00	333.00	6.48	3.60	9.70	2665	522.00	0.00	Tipping Bucket
10/19/2009	39.43	35.10	42.80	27.18	27.13	27.22	81.95	75.40	88.20	9.76	3.40	15.80	151.13	2.00	349.00	8.56	4.70	33.50	1210	278.00		
10/20/2009	35.82	33.10	38.10	27.30	27.21	27.42	88.32	86.10	89.40	10.25	4.60	16.60	47.83	18.00	69.00	6.44	5.60	7.70	516	99.00		
10/21/2009	38.45	36.40	41.90	27.41	27.38	27.44	84.79	73.70	89.50	3.21	1.00	7.30	100.00	10.00	351.00	14.84	4.00	45.20	675	122.00	0.01	Tipping Bucket
10/22/2009	39.39	31.40	48.00	27.30	27.22	27.37	72.19	51.30	87.20	9.88	5.00	15.80	177.79	151.00	215.00	7.90	5.30	11.50	2839	496.00	0.00	Weighing Bucket
10/23/2009	43.55	35.10	56.60	27.09	26.88	27.21	68.87	35.00	87.60	8.95	5.40	12.80	262.38	219.00	288.00	7.46	3.30	15.60	3029	496.00	0.01	Weighing Bucket
10/24/2009	42.53	35.90	51.10	26.86	26.80	27.06	78.65	61.00	87.80	9.49	4.40	14.10	210.21	16.00	352.00	7.05	4.20	10.40	1463	333.00	0.07	Weighing Bucket
10/25/2009	39.55	35.90	46.50	27.25	27.08	27.35	69.80	47.80	86.30	10.73	5.50	18.20	298.79	269.00	356.00	7.75	3.90	11.40	1724	333.00	0.05	Weighing Bucket
10/26/2009	37.75	25.00	50.80	27.07	26.75	27.34	60.78	37.40	80.30	13.10	7.20	20.20	215.04	197.00	253.00	5.25	2.50	8.00	1750	324.00	0.01	Weighing Bucket
10/27/2009	44.51	33.90	50.50	26.69	26.60	26.82	53.59	42.00	68.90	11.59	5.20	19.40	255.88	194.00	301.00	8.63	3.90	24.30	1487	307.00	0.02	Weighing Bucket
10/28/2009	35.54	33.80	37.80	27.00	26.84	27.16	77.25	69.90	83.70	11.88	7.50	16.20	305.04	271.00	334.00	7.99	6.60	10.10	792	233.00	0.00	Weighing Bucket
10/29/2009	32.18	28.40	34.80	27.12	26.98	27.17	81.20	71.90	87.20	10.76	6.00	15.20	330.71	269.00	353.00	7.53	5.00	10.40	727	146.00	0.03	Weighing Bucket
10/30/2009	31.63	23.10	38.90	26.84	26.74	26.95	74.29	62.90	81.50	9.24	4.40	16.10	288.83	222.00	344.00	7.18	3.80	10.50	579	105.00	0.01	Weighing Bucket
10/31/2009	41.07	30.00	58.60	26.97	26.94	27.01	67.86	46.00	81.50	7.94	2.30	12.20	221.83	150.00	302.00	8.49	4.00	23.40	1277	271.00	0.00	Weighing Bucket
11/1/2009	44.06	34.60	50.00	27.22	26.98	27.43	59.58	47.10	71.70	11.69	6.70	15.80	289.42	255.00	322.00	7.08	4.20	11.70	2540	446.00	0.00	Weighing Bucket
11/2/2009	37.61	29.60	50.20	27.48	27.34	27.58	55.88	32.00	72.80	9.28	6.30	13.30	251.17	207.00	292.00	7.74	3.00	18.30	2603	448.00	0.00	Weighing Bucket
11/3/2009	38.24	29.30	48.50	27.26	27.16	27.44	60.56	33.80	85.40	13.35	7.70	19.70	264.21	200.00	316.00	6.47	3.80	9.40	2550	442.00	0.04	Weighing Bucket
11/4/2009	37.13	24.90	51.30	27.43	27.32	27.49	58.01	29.80	80.50	8.43	3.70	11.70	233.04	160.00	310.00	7.33	4.20	13.20	2331	404.00	0.04	Weighing Bucket
11/5/2009	44.93	27.80	67.60	27.14	26.95	27.31	48.55	18.40	72.20	10.13	5.00	18.20	193.25	162.00	219.00	6.20	2.90	12.10	2535	438.00	0.01	Weighing Bucket
11/6/2009	54.49	40.00	73.20	26.83	26.74	26.95	39.76	14.60	66.10	12.60	8.20	20.20	248.83	216.00	307.00	6.78	3.60	16.70	2032	363.00	0.00	Tipping Bucket
11/7/2009	44.10	33.80	55.20	27.08	26.97	27.13	37.60	20.30	54.30	11.28	4.10	17.50	255.29	236.00	286.00	6.75	3.60	13.50	2351	424.00	0.01	Weighing Bucket
11/8/2009	41.05	29.10	56.00	27.17	27.10	27.32	46.26	26.90	67.10	8.60	4.40	17.80	255.08	230.00	288.00	9.92	2.30	28.20	2270	412.00	0.00	Weighing Bucket
11/9/2009	38.35	25.00	55.50	27.44	27.34	27.49	44.55	22.20	65.10	6.32	2.80	8.90	238.83	182.00	296.00	10.79	3.50	27.90	2323	411.00	0.00	Weighing Bucket
11/10/2009	38.48	30.10	49.80	27.32	27.25	27.44	56.35	43.30	70.20	10.06	5.90	16.00	212.96	184.00	268.00	6.40	3.60	9.10	1125	244.00	0.00	Weighing Bucket
11/11/2009	41.97	29.90	58.10	27.21	26.98	27.33	46.44	22.70	63.00	9.13	3.50	21.20	211.33	123.00	250.00	8.98	4.30	38.10	1957	387.00	0.01	Weighing Bucket
11/12/2009	38.37	33.80	43.20	26.89	26.84	26.95	64.27	54.30	78.40	8.43	3.00	15.70	302.17	71.00	347.00	10.18	5.10	29.30	756	142.00	0.01	Weighing Bucket
11/13/2009	31.10	22.50	42.40	26.96	26.94	27.00	66.16	41.30	79.70	5.95	3.30	8.30	257.54	180.00	314.00	14.36	3.10	58.70	1945	377.00	0.02	Weighing Bucket
11/14/2009	29.63	21.70	41.50	27.10	26.98	27.22	61.83	35.60	84.20	7.49	4.50	10.90	248.92	227.00	263.00	9.33	3.80	36.70	2142	390.00	0.00	Weighing Bucket
11/15/2009	29.36	19.90	44.70	27.33	27.22	27.39	59.69	30.30	75.90	9.12	5.00	12.20	247.33	199.00	272.00	7.05	2.80	14.20	2068	379.00	0.00	Weighing Bucket
11/16/2009	34.93	20.80	54.40	27.33	27.26	27.38	50.63	25.50	72.50	13.27	8.90	18.20	218.13	207.00	229.00	5.00	2.70	7.60	2049	363.00	0.00	Weighing Bucket
11/17/2009	43.00	30.60	64.80	27.18	27.09	27.26	40.19	15.50	56.70	12.16	9.40	16.70	207.79	182.00	227.00	5.22	3.50	7.40	2007	382.00	0.00	Weighing Bucket
11/18/2009	39.63	27.20	55.50	27.04	26.98	27.11	54.15	33.90	71.20	8.10	5.00	11.90	209.92	154.00	308.00	8.37	3.50	24.20	2023	373.00	0.00	Weighing Bucket
11/19/2009	35.88	25.20	48.20	27.26	27.13	27.32	48.13	22.80	65.90	8.60	2.10	12.90	286.00	209.00	328.00	8.36	3.60	19.30	1925	374.00	0.01	Weighing Bucket
11/20/2009	39.41	26.40	59.80	27.14	26.92	27.26	46.00	17.80	65.40	12.08	8.60	16.10	212.75	187.00	227.00	5.16	3.10	7.60	1755	340.00	0.02	Weighing Bucket
11/21/2009	40.99	32.80	53.70	26.82	26.69	27.03	41.09	24.20	57.40	13.40	7.90	23.20	240.92	182.00	295.00	6.56	4.40	9.40	1287	282.00	0.01	Weighing Bucket
11/22/2009	33.17	19.90	46.40	27.09	27.05	27.13	49.79	25.80	70.30	9.22	4.70	14.80	209.21	139.00	280.00	8.05	3.50	18.70	1885	360.00	0.00	Weighing Bucket
11/23/2009	34.02	28.20	45.10	27.20	27.09	27.28	59.78	34.90	71.80	7.89	4.10	11.20	233.46	137.00	310.00	8.17	3.40	17.30	1126	211.00	0.00	Weighing Bucket
11/24/2009	32.98	22.50	45.40	27.23	27.16	27.28	61.29	37.50	83.30	14.13	8.20	20.00	267.92	229.00	312.00	6.56	3.60	9.10	1194	250.00	0.00	Weighing Bucket
11/25/2009	28.00	19.00	36.10	27.36	27.30	27.40	68.88	51.60	78.10	9.61	2.70	14.90	264.54	18.00	338.00	8.03	3.90	18.80	1789	348.00	0.01	Weighing Bucket
11/26/2009	37.25	19.20	59.40	27.15	27.04	27.34	58.14	29.90	76.80	10.64	6.30	18.00	240.08	209.00	282.00	5.40	3.20	10.10	1522	344.00	0.00	Weighing Bucket
11/27/2009	41.90	31.80	49.90	27.01	26.99	27.04	52.03	38.50	77.00	9.41	4.70	14.40	240.75	5.00	360.00	7.04	3.50	12.20	1203	258.00	0.00	Weighing Bucket
11/28/2009	30.37	23.90	36.10	27.16	27.03	27.23	77.72	64.30	87.80	9.05	2.30	15.00	274.38	16.00	332.00	8.01	3.60	28.60	676	167.00	0.00	Weighing Bucket
11/29/2009	27.95	16.10	40.90	27.20	27.15	27.23	68.05	46.90	82.30	9.03	4.40	13.80	251.71	218.00	282.00	6.00	2.50	10.80	1533	323.00	0.00	Weighing Bucket
11/30/2009	38.65	30.00																				