Date Printed: 07/28/2017 01:20

OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Daily Summary Report

Site: Tower "D" (1000 Area)

7/27/2017

Interval: 001h

	01_TempC_002m	02_TempC_015m	03_TempC_035m	04_TempC_060m	05_TempF_002m	06_TempF_015m	07_TempF_035m	08_TempF_060m	09_VTGrad_0215m
Hour	DEGC	DEGC	DEGC	DEGC	DEGF	DEGF	DEGF	DEGF	DEGC
00:00	22.9	23.8	24.4	25.3	73.2	74.8	75.9	77.6	.91
01:00	22.6	23.6	24.1	24.6	72.7	74.5	75.3	76.2	1.00
02:00	22.4	23.3	24.4	24.9	72.3	73.9	76.0	76.8	.87
03:00	22.2	23.0	23.8	24.6	72.0	73.4	74.9	76.2	.80
04:00	22.5	23.4	24.0	24.6	72.6	74.0	75.2	76.2	.81
05:00	22.8	23.7	24.1	24.5	73.0	74.7	75.4	76.0	.94
06:00	22.6	23.5	23.8	24.1	72.7	74.4	74.9	75.4	.92
07:00	23.1	23.8	24.0	24.2	73.6	74.8	75.3	75.6	.68
08:00	24.7	24.6	24.4	24.5	76.4	76.2	76.0	76.0	-.13
09:00	25.5	25.1	24.8	24.7	77.9	77.2	76.7	76.5	-.41
10:00	26.9	26.2	25.9	25.7	80.5	79.2	78.6	78.3	-.72
11:00	27.7	27.0	26.7	26.5	81.9	80.5	80.0	79.7	-.75
12:00	29.3	28.2	28.0	27.7	84.8	82.8	82.4	81.9	-1.09
13:00	28.9	28.3	28.1	28.0	84.1	83.0	82.6	82.4	-.58
14:00	29.5	28.8	28.5	28.4	85.0	83.9	83.3	83.2	-.64
15:00	23.3	23.3	23.4	24.0	73.9	73.9	74.2	75.2	.03
16:00	25.5	24.8	24.5	24.4	77.8	76.7	76.2	75.9	-.66
17:00	26.8	26.2	26.0	25.8	80.2	79.2	78.7	78.4	-.55
18:00	26.9	26.5	26.3	26.2	80.4	79.8	79.4	79.2	-.33
19:00	25.8	26.0	25.9	25.9	78.5	78.8	78.7	78.6	.19
20:00	24.2	24.5	25.2	25.4	75.6	76.2	77.4	77.7	.32
21:00	23.5	23.9	24.3	24.5	74.3	75.1	75.8	76.2	.43
22:00	23.3	24.0	24.0	24.2	73.9	75.2	75.2	75.5	.71
23:00	23.0	23.4	23.7	23.9	73.4	74.1	74.7	75.1	.35
Avg	24.8	25.0	25.1	25.3	76.7	76.9	77.2	77.5	.13
Max	29.5	28.8	28.5	28.4	85.0	83.9	83.3	83.2	1.00
Hr. of Max	14	14	14	14	14	14	14	14	01
Min	22.2	23.0	23.4	23.9	72.0	73.4	74.2	75.1	-1.09
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

7/27/2017

Interval: 001h

	10_VTGrad_0235m	11_VTGrad_0260m	12_VTGrad_1535m	13_VTGrad_1560m	14_DewPtC_002m	15_DewPtC_015m	17a_WBulbC	18_SoilTempC	19_RH_002m
Hour	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	PERCENT
00:00	1.51	2.44	.59	1.53	21.0	22.3	22.8	28.4	91.8
01:00	1.43	1.94	.43	.94	21.0	22.7	23.0	28.1	93.1
02:00	2.02	2.51	1.14	1.64	21.0	22.7	22.9	27.9	93.9
03:00	1.60	2.36	.80	1.56	20.9	22.5	22.7	27.7	94.5
04:00	1.44	2.03	.63	1.23	21.1	22.7	22.9	27.5	94.1
05:00	1.31	1.65	.36	.71	21.4	22.5	22.9	27.3	94.0
06:00	1.19	1.48	.28	.56	21.2	22.0	22.5	27.1	94.2
07:00	.93	1.13	.25	.45	21.5	21.8	22.5	26.9	93.4
08:00	-.23	-.23	-.11	-.10	21.3	21.2	22.3	26.8	83.9
09:00	-.66	-.77	-.25	-.36	20.9	20.9	22.3	26.7	77.8
10:00	-1.01	-1.19	-.29	-.47	20.5	20.6	22.5	26.7	69.9
11:00	-1.02	-1.22	-.27	-.47	20.9	21.0	23.0	26.8	68.3
12:00	-1.36	-1.62	-.27	-.53	21.6	21.7	23.9	27.1	65.1
13:00	-.82	-.91	-.24	-.33	22.2	22.5	24.4	27.4	69.1
14:00	-.95	-1.04	-.30	-.40	22.3	22.4	24.5	27.7	67.4
15:00	.17	.74	.14	.72	21.2	21.9	22.4	28.1	90.7
16:00	-.93	-1.06	-.27	-.41	21.6	22.4	23.2	27.9	81.9
17:00	-.82	-1.02	-.27	-.46	20.9	20.4	22.4	27.8	72.2
18:00	-.56	-.68	-.22	-.35	21.5	21.3	23.0	27.8	74.4
19:00	.10	.09	-.09	-.10	22.0	21.8	23.2	27.8	81.7
20:00	.98	1.15	.67	.84	22.3	22.7	23.3	27.8	91.6
21:00	.80	1.03	.37	.60	22.1	23.3	23.5	27.7	94.2
22:00	.73	.90	.02	.19	22.0	23.4	23.6	27.6	95.3
23:00	.68	.92	.33	.57	21.8	22.8	23.0	27.4	95.5
Avg	.27	.44	.14	.32	21.4	22.1	23.0	27.5	84.5
Max	2.02	2.51	1.14	1.64	22.3	23.4	24.5	28.4	95.5
Hr. of Max	02	02	02	02	20	22	14	00	23
Min	-1.36	-1.62	-.30	-.53	20.5	20.4	22.3	26.7	65.1
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

7/27/2017

Interval: 001h

	20_RH_015m	21_AbsHum_002m	22_AbsHum_015m	23_Mix Ratio_002m	24_Mix Ratio_015m	27_VaporPr_002m	28_VaporPr_015m	34_Precip_In	36_BarPres_In
Hour	PERCENT	G/M3	G/M3	COUNT	COUNT	KPa	KPa	INCHES	INHG
00:00	93.8	18.3	19.7	0.01618	0.017475	25.0	27.0	.00	29.13
01:00	97.1	18.3	20.2	0.016168	0.017927	25.0	27.6	.00	29.12
02:00	99.1	18.2	20.2	0.016095	0.017906	24.9	27.6	.00	29.11
03:00	99.7	18.1	20.0	0.016	0.017731	24.7	27.3	.00	29.11
04:00	98.8	18.4	20.2	0.016265	0.01794	25.1	27.6	.00	29.11
05:00	95.6	18.7	20.0	0.016506	0.017768	25.5	27.4	.00	29.12
06:00	93.9	18.5	19.4	0.016365	0.01723	25.3	26.6	.00	29.12
07:00	91.3	18.8	19.1	0.01668	0.01699	25.8	26.2	.00	29.13
08:00	84.0	18.5	18.4	0.016475	0.016378	25.5	25.3	.00	29.14
09:00	79.6	18.0	18.0	0.016052	0.016033	24.8	24.8	.00	29.14
10:00	73.4	17.5	17.7	0.015674	0.015776	24.3	24.4	.00	29.13
11:00	72.0	17.9	18.1	0.016042	0.016184	24.8	25.0	.00	29.13
12:00	69.9	18.6	18.8	0.016846	0.016977	26.0	26.2	.00	29.10
13:00	72.7	19.3	19.6	0.017461	0.017753	26.9	27.3	.00	29.09
14:00	70.3	19.4	19.5	0.01759	0.017674	27.1	27.2	.00	29.06
15:00	94.9	18.5	19.4	0.016404	0.017199	25.3	26.5	.39	29.07
16:00	89.6	18.9	19.9	0.016886	0.017756	26.0	27.3	.00	29.05
17:00	72.5	18.0	17.5	0.01614	0.015668	24.9	24.1	.00	29.02
18:00	74.9	18.6	18.4	0.01673	0.016519	25.7	25.4	.00	29.01
19:00	80.2	19.2	19.1	0.017225	0.017113	26.5	26.3	.00	29.02
20:00	92.2	19.7	20.1	0.017599	0.018019	27.0	27.7	.00	29.02
21:00	99.0	19.5	20.9	0.017333	0.018678	26.6	28.7	.00	29.02
22:00	99.5	19.4	21.1	0.017282	0.018835	26.6	28.9	.00	29.01
23:00	99.7	19.2	20.4	0.017057	0.018186	26.2	27.9	.00	29.01
Avg	87.2	18.6	19.4	0.016627	0.017321	25.6	26.7	.02	29.08
Max	99.7	19.7	21.1	0.017599	0.018835	27.1	28.9	.39	29.14
Hr. of Max	23	20	22	20	22	14	22	15	09
Min	69.9	17.5	17.5	0.015674	0.015668	24.3	24.1	.00	29.01
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

7/27/2017

Interval: 001h

	37_BarPres_Mb	38_SolarRad_Wm2	41_WDir_035m	42_WDir_060m	46_SWDir_015m	47_SWDir_060m	51_Sigma_035m	52_Sigma_060m	53_SSigma_015m
Hour	KPa	W/M2	DEG	DEG	DEG	DEG	DEG	DEG	DEG
00:00	986.6	-1.3	226.1	236.2	250.4	231.4	43.9	13.7	39.8
01:00	986.3	-1.3	247.6	194.5	271.0	190.8	17.3	20.3	24.3
02:00	985.9	-1.3	273.5	239.8	248.6	235.1	32.5	11.3	47.3
03:00	985.8	-1.3	233.1	252.0	246.1	246.7	6.0	7.2	21.9
04:00	985.9	-1.3	230.9	235.4	228.7	231.2	10.7	6.2	17.7
05:00	986.1	-1.3	235.9	234.2	242.9	230.0	8.3	6.8	22.2
06:00	986.3	1.0	248.6	244.8	227.3	240.2	26.2	11.6	26.2
07:00	986.6	37.0	238.3	232.8	248.5	228.8	11.7	9.3	19.4
08:00	986.8	167.3	235.3	233.1	218.7	229.0	17.8	12.8	27.1
09:00	986.9	297.3	232.6	230.4	226.0	226.1	18.2	13.6	25.2
10:00	986.6	561.2	238.2	234.4	235.6	230.4	17.9	13.8	24.4
11:00	986.5	568.3	234.7	231.9	229.3	227.9	16.2	12.3	22.0
12:00	985.6	871.9	224.7	220.5	214.6	216.5	21.7	16.9	26.5
13:00	985.0	280.6	244.4	236.4	242.4	232.3	15.2	12.0	23.5
14:00	984.2	508.8	231.9	226.0	224.3	219.3	38.5	29.8	42.6
15:00	984.6	232.9	356.7	308.9	318.7	299.0	59.3	65.1	67.2
16:00	984.0	612.3	103.5	105.1	95.3	96.4	23.9	25.8	30.5
17:00	982.9	413.1	148.4	161.9	159.1	159.8	57.0	64.7	60.5
18:00	982.4	230.9	130.6	127.3	125.9	118.8	35.7	28.9	38.5
19:00	982.9	96.4	155.0	134.4	234.4 +	121.1	73.7	45.3	54.1 +
20:00	982.8	9.8	43.1	67.1	292.7	58.5	21.0	17.5	40.0
21:00	982.9	-1.3	41.1	73.2	317.6	65.3	14.6	7.8	36.2
22:00	982.6	-1.3	61.5	70.0	22.8	62.1	17.9	11.6	41.0
23:00	982.3	-1.3	32.6	85.1	276.8	78.0	29.3	45.3	27.0
Avg	984.9	203.2	227.0	210.0	242.0	207.0	26.4	21.2	33.5
Max	986.9	871.9	356.7	308.9	318.7	299.0	73.7	65.1	67.2
Hr. of Max	09	12	15	15	15	15	19	15	15
Min	982.3	-1.3	32.6	67.1	22.8	58.5	6.0	6.2	17.7
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

7/27/2017

Interval: 001h

	54_SSigma_060m	56_RWSpd_035m	57_RWSpd_060m	59_WSpd_035m	60_WSpd_060m	66_HSSpd_015m	67_HSSpd_060m	70_WElev_015m	71_WElev_060m
Hour	DEG	MPH	MPH	MPH	MPH	MPH	MPH	DEG	DEG
00:00	13.7	2.1	2.5	2.2	2.7	2.1	2.9	1.6	1.8
01:00	20.1	2.1	2.5	2.2	2.7	1.7	2.9	1.4	1.4
02:00	11.5	1.3	2.7	1.4	2.8	1.0	3.0	1.4	1.2
03:00	7.3	2.7	3.4	2.7	3.5	2.2	3.6	.1	.8
04:00	5.9	4.6	6.5	4.7	6.6	2.8	6.9	-.9	.7
05:00	6.6	3.6	5.7	3.7	5.8	1.9	6.2	.0	.4
06:00	11.8	2.4	4.6	2.5	4.7	1.6	5.0	2.1	.9
07:00	9.3	3.3	5.3	3.9	5.7	2.3	6.0	-.5	-.1
08:00	12.7	3.4	4.5	3.8	4.8	2.7	5.1	2.4	2.0
09:00	13.7	4.4	5.2	4.7	5.4	4.1	5.8	1.1	.1
10:00	13.5	8.5	10.1	8.9	10.4	7.0	11.0	.0	-.6
11:00	12.1	9.2	11.3	9.6	11.5	7.7	12.3	.5	-1.0
12:00	16.9	7.2	8.5	7.8	9.0	7.1	9.6	-1.3	-.6
13:00	11.8	5.4	6.8	5.5	6.9	4.2	7.3	.4	.5
14:00	29.3	3.0	3.5	4.3	4.9	3.8	5.3	1.7	-5.4
15:00	64.6	2.7	3.6	6.3	7.3	4.9	7.7	-2.0	2.9
16:00	28.4	3.2	3.5	3.5	3.8	3.8	4.2	3.4	-.4
17:00	72.0	.6	.5	1.2	1.1	1.9	1.7	10.6	-2.5
18:00	31.7	2.1	2.5	2.5	2.8	2.8	3.3	7.2	7.9
19:00	50.4	.6	.9	.9	1.2	1.4	1.7	7.5	17.3
20:00	18.1	.9	1.3	1.0	1.5	1.0	1.7	2.9	.8
21:00	8.4	1.0	1.7	1.1	1.7	1.2	1.9	.2	.8
22:00	11.6	2.1	2.7	2.3	2.7	1.8	2.9	-1.2	1.2
23:00	43.0	.2	.9	.7	.9	1.3	1.3	1.4	.7
Avg	21.9	.0	.0	3.6	4.6	3.0	5.0	1.7	1.3
Max	72.0	9.2	11.3	9.6	11.5	7.7	12.3	10.6	17.3
Hr. of Max	17	11	11	11	11	11	11	17	19
Min	5.9	.2	.5	.7	.9	1.0	1.3	-2.0	-5.4
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

7/27/2017

Interval: 001h

	72_VSSpd_015m	73_VSSpd_060m	80_PkWsH_035m	81_PkWsH_060m	82_SPkWsH_015m	84_SigPhi_015m	85_SigPhi_060m	86_SonicTemp_015m	87_SonicTemp_060m
Hour	MPH	MPH	MPH	MPH	MPH	DEG	DEG	DEGC	DEGC
00:00	.04	.08	5.7	5.7	4.4	6.9	4.2	25.4	26.8
01:00	.01	.09	3.9	7.8	3.4	11.6	8.2	25.3	26.0
02:00	.04	.07	5.0	5.5	3.3	9.7	6.3	24.9	26.3
03:00	.01	.05	5.0	5.3	4.6	5.6	3.1	24.6	26.0
04:00	-.06	.09	8.5	10.8	4.5	6.3	3.2	25.0	26.0
05:00	-.04	.01	8.5	12.1	5.6	10.1	4.3	25.4	25.9
06:00	.05	.08	9.4	15.3	4.8	9.0	5.0	25.2	25.4
07:00	-.07	-.02	7.6	9.2	6.9	11.9	4.3	25.4	25.5
08:00	.01	.13	11.7	11.2	8.3	16.2	10.5	26.1	25.6
09:00	-.11	-.08	11.7	12.8	10.6	17.1	12.3	26.6	25.8
10:00	-.23	-.27	18.1	20.6	16.7	16.6	9.6	27.5	26.6
11:00	-.22	-.33	22.4	22.7	17.0	16.9	9.3	28.3	27.4
12:00	-.35	-.24	16.3	15.8	15.2	16.4	12.6	29.6	28.7
13:00	-.17	-.03	13.1	17.4	11.5	18.5	8.8	30.0	29.2
14:00	.02	-.31	28.9	28.4	24.1	25.6	21.6	30.5	29.7
15:00	-.21	.12	32.1	33.0	23.2	18.9	17.5	25.0	25.3
16:00	.17	.00	17.4	17.4	11.2	22.4	22.6	26.5	25.7
17:00	.45	-.02	5.7	4.8	5.3	30.7	35.4	27.9	27.1
18:00	.25	.40	8.7	7.8	8.0	21.1	23.2	28.2	27.6
19:00	.18	.54	6.9	11.2	6.6	22.6	28.3	27.7	27.3
20:00	.04	.03	3.0	3.4	2.7	9.3	6.8	26.3	26.8
21:00	.01	.02	3.0	3.7	2.8	6.6	4.2	25.7	26.1
22:00	-.07	.06	4.1	5.0	3.4	13.3	7.3	25.8	25.7
23:00	.03	.01	4.4	4.6	2.7	7.4	14.6	25.1	25.5
Avg	-.01	.02	10.9	12.1	8.6	14.6	11.8	26.6	26.6
Max	.45	.54	32.1	33.0	24.1	30.7	35.4	30.5	29.7
Hr. of Max	17	19	15	15	14	17	17	14	14
Min	-.35	-.33	3.0	3.4	2.7	5.6	3.1	24.6	25.3
Count	24	24	24	24	24	24	24	24	24
Total									