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13.320	14.970	14.530	14.290
13.880	13.450	13.300	13.300
13.300	13.240	12.730	12.730
12.570	12.430	12.240	12.020
12.020	12.020	12.020	12.010
11.490	11.490	11.490	11.490
11.490	11.490	11.490	11.490
11.090	11.070	11.070	11.070
11.070	10.870	10.860	10.860
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.270
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.720	9.700
9.700	9.700	9.700	9.700
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.400	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.150	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.720	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700

8.700	8.700	8.700	8.700
8.700	8.520	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.440

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Case 06e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=97.4F @1200; power uprate;

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.83	.00	-1.83
NATURAL EVAP (CFS)	.00	-1.21	.00	-1.21
FORCED EVAP (CFS)	.00	-.63	.00	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.23	.00	689.23
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.48	.00	84.48
LAKE INLET TEMP (F)	.00	95.36	.00	95.36
LAKE OUTLET TEMP (F)	.00	85.57	.00	85.57

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	95.8	92.2	84.0
LAKE INLET TEMP (F)	128.0	106.0	94.4
LAKE OUTLET TEMP (F)	99.0	92.5	85.1

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Case 06e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=97.4F @1200; power uprate;

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.83	.00	-1.83
NATURAL EVAP (CFS)	.00	-1.21	.00	-1.21
FORCED EVAP (CFS)	.00	-.63	.00	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.23	.00	689.23
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.48	.00	84.48
LAKE INLET TEMP (F)	.00	95.36	.00	95.36
LAKE OUTLET TEMP (F)	.00	85.57	.00	85.57

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	95.8	92.2	84.0
LAKE INLET TEMP (F)	128.0	106.0	94.4
LAKE OUTLET TEMP (F)	99.0	92.5	85.1

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Case 06e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=97.4F @1200; power uprate;

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE	TOTAL FLOW (ACRE-FEET)
LAKE SEEPAGE (CFS)	-.15 (7301900)	-.20 (7011900)	-.17	-1.02724E+01
TOTAL EVAP (CFS)	-.52 (7121900)	-5.34 (7101900)	-1.83	-1.09123E+02
NATURAL EVAP (CFS)	-.27 (7051900)	-4.09 (7101900)	-1.21	-7.19232E+01
FORCED EVAP (CFS)	-.14 (7011900)	-1.97 (7011900)	-.63	-3.71999E+01
PRECIPITATION (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
MAKEUP (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
BLOWDOWN (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
RUNOFF (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
DAM SPILL (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
LAKE ELEVATION (FEET)	690.00 (7011900)	688.54 (7301900)	689.23	4.10120E+04
DISSOLVED SOLIDS (PPM)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
NATURAL LAKE TEMP (F)	96.39 (7011900)	75.49 (7201900)	84.48	5.02675E+03
LAKE INLET TEMP (F)	134.78 (7011900)	84.71 (7201900)	95.36	5.67428E+03
LAKE OUTLET TEMP (F)	99.97 (7011900)	76.02 (7201900)	85.57	5.09204E+03
TEMPERATURE	FREQUENCY OF OCCURENCES			
	1%	5%	50%	
NATURAL LAKE TEMP (F)	95.8	92.2	84.0	
LAKE INLET TEMP (F)	128.0	106.0	94.4	
LAKE OUTLET TEMP (F)	99.0	92.5	85.1	

Program : LAKET-PC
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Case 18e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=96.8 F @ 1200; power uprat

1				
2	070100	073000	1	1
3	1	20		
4	1	0.2	5500.	0
5	690.	690.	1.	6
	81.35	341.4	73.21	307.2
	79.75	260.8	71.78	234.7
	78.15	181.9	70.34	163.7
	29.70	102.2	26.73	92.0
	22.22	60.0	20.00	54.0
	13.42	43.8	12.08	39.4
7	1	0		
8	96.8	92.3		
999				
FPLANT	R/I	86.0		
TPRISE	S/I			
35.26				
28.79				
16.68				
16.28				
15.32				
14.97				
14.53				
14.29				
13.88				
13.45				
13.30				
13.30				
13.30				
13.24				
12.73				
12.73				
12.57				
12.43				
12.24				
12.02				
12.02				
12.02				
12.02				
12.01				
11.49				
11.49				
11.49				
11.49				
11.49				
11.49				
11.49				
11.09				
11.07				

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PROJECT NO. 11333-297

ATTACHMENT B
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PROJECT NO. 11333-297

CALCULATION NO. L-002457

REVISION NO. 8

ATTACHMENT B
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8.49
8.44
END

PROJECT NO. 11333-297

Program : LAKET-PC
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Case 18e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=96.8 F @ 1200; power uprat

RUN 30 DAYS FROM 70100 TO 73000
PLOT FILE OPTION : 1 CYCLE FLAG: 1

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: .20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	81.350	341.400	73.210	307.200
689.000	79.750	260.800	71.780	234.700
688.000	78.150	181.900	70.340	163.700
687.000	29.700	102.200	26.730	92.000
686.000	22.220	60.000	20.000	54.000
685.000	13.420	43.800	12.080	39.400

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 96.80 92.30

WEATHER STATION ID 0.

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Case 18e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=96.8 F @ 1200; power uprat

FPLANT

70100 - 73000 R/I 86.000

TPRISE

70100 - 73000 S/I 35.260 28.790 16.680 16.280

15.320	14.970	14.530	14.290
13.880	13.450	13.300	13.300
13.300	13.240	12.730	12.730
12.570	12.430	12.240	12.020
12.020	12.020	12.020	12.010
11.490	11.490	11.490	11.490
11.490	11.490	11.490	11.490
11.090	11.070	11.070	11.070
11.070	10.870	10.860	10.860
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.270
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.720	9.700
9.700	9.700	9.700	9.700
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.400	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.150	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.720	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700

8.700	8.700	8.700	8.700
8.700	8.520	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.440

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Case 18e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=96.8 F @ 1200; power uprat

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.80	.00	-1.80
NATURAL EVAP (CFS)	.00	-1.18	.00	-1.18
FORCED EVAP (CFS)	.00	-.63	.00	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.23	.00	689.23
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.30	.00	84.30
LAKE INLET TEMP (F)	.00	95.11	.00	95.11
LAKE OUTLET TEMP (F)	.00	85.36	.00	85.36

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	96.0	91.7	84.1
LAKE INLET TEMP (F)	128.0	105.7	94.4
LAKE OUTLET TEMP (F)	99.0	92.6	85.2

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Case 18e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=96.8 F @ 1200; power uprat

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.80	.00	-1.80
NATURAL EVAP (CFS)	.00	-1.18	.00	-1.18
FORCED EVAP (CFS)	.00	-.63	.00	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.23	.00	689.23
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.30	.00	84.30
LAKE INLET TEMP (F)	.00	95.11	.00	95.11
LAKE OUTLET TEMP (F)	.00	85.36	.00	85.36

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	96.0	91.7	84.1
LAKE INLET TEMP (F)	128.0	105.7	94.4
LAKE OUTLET TEMP (F)	99.0	92.6	85.2

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Case 18e: LaSalle UHS (Updated Worst 30-Day Evap; Ti=96.8 F @ 1200; power uprat

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE	TOTAL FLOW (ACRE-FEET)
LAKE SEEPAGE (CFS)	-.14 (7301900)	-.20 (7011900)	-.17	-9.88611E+00
TOTAL EVAP (CFS)	-.48 (7121900)	-5.39 (7101900)	-1.80	-1.07149E+02
NATURAL EVAP (CFS)	-.24 (7121900)	-4.15 (7101900)	-1.18	-6.99473E+01
FORCED EVAP (CFS)	-.14 (7011900)	-2.08 (7011900)	-.63	-3.72013E+01
PRECIPITATION (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
MAKEUP (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
BLOWDOWN (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
RUNOFF (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
DAM SPILL (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
LAKE ELEVATION (FEET)	690.00 (7011900)	688.54 (7301900)	689.23	4.10121E+04
DISSOLVED SOLIDS (PPM)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
NATURAL LAKE TEMP (F)	96.58 (7011900)	73.46 (7201900)	84.30	5.01606E+03
LAKE INLET TEMP (F)	134.67 (7011900)	82.35 (7201900)	95.11	5.65925E+03
LAKE OUTLET TEMP (F)	99.97 (7011900)	73.54 (7201900)	85.36	5.07904E+03
TEMPERATURE	FREQUENCY OF OCCURENCES			
	1%	5%	50%	
NATURAL LAKE TEMP (F)	96.0	91.7	84.1	
LAKE INLET TEMP (F)	128.0	105.7	94.4	
LAKE OUTLET TEMP (F)	99.0	92.6	85.2	

Attachment C
EXCEL Formulas

EXCEL Formulas for Table 6.1 Determination of UHS Area-Capacity Profiles

1	F	G	H	I	J	K
2				with No Sediment		
3			Surface	Incremental	Total	
4	Elevation	Slice	Area	Volume	Volume	
5	(feet)	Number	(acres)	(acre-feet)	(acre-feet)	
6						
7						
8	675		0.0076		-	
9		15		$=(H8+H10+SQRT(H8*H10))/3$		
10	$=F8+1$		0.064		$=I9$	
11		14		$=(H10+H12+SQRT(H10*H12))/3$		
12	$=F10+1$		0.1857		$=J10+I11$	
13		13		$=(H12+H14+SQRT(H12*H14))/3$		
14	$=F12+1$		0.3263		$=J12+I13$	
15		12		$=H14$		
16		12 (Adj)	3.4397	$=H16*0.66$		
17		12 (Adj)		1.66		
18	$=F14+1$		5.1493		$=J14+I15+I16+I17$	
19		11		$=(H18+H20+SQRT(H18*H20))/3$		
20	$=F18+1$		6.327		$=J18+I19$	
21		10		$=(H20+H22+SQRT(H20*H22))/3$		
22	$=F20+1$		8.1173		$=J20+I21$	
23		9		$=(H22+H24+SQRT(H22*H24))/3$		
24	$=F22+1$		9.7301		$=J22+I23$	
25		8		$=(H24+H26+SQRT(H24*H26))/3$		
26	$=F24+1$		12.0857		$=J24+I25$	
27		7		$=(H26+H28+SQRT(H26*H28))/3$		
28	$=F26+1$		14.75		$=J26+I27$	
29		6		$=(H28+H31+SQRT(H28*H31))/3$		
30		6 (Adj)		-0.84		
31	$=F28+1$		29.6984		$=J28+I29+I30$	
32		5		$=H31$		
33		5 (Adj)	32.3376	$=H33*0.67$		
34		5 (Adj)		19.54		
35	$=F31+1$		77.3331		$=J31+I32+I33+I34$	
36		4		$=(H35+H37+SQRT(H35*H37))/3$		
37	$=F35+1$		78.9604		$=J35+I36$	
38		3		$=(H37+H39+SQRT(H37*H39))/3$		
39	$=F37+1$		80.5479		$=J37+I38$	
40		2		$=(H39+H41+SQRT(H39*H41))/3$		
41	$=F39+1$		82.1516		$=J39+I40$	
42		1		$=(H41+H43+SQRT(H41*H43))/3$		
43	$=F41+1$		83.8297		$=J41+I42$	
44						
45						
46						
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48						
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EXCEL Formulas for Table 6.1 Determination of UHS Area-Capacity Profiles

1	L	M	N	O	P
2				with 0.5 feet of Sediment	
3			Surface	Incremental	Total
4	Elevation	Slice	Area	Volume	Volume
5	(feet)	Number	(acres)	(acre-feet)	(acre-feet)
6					
7	0.5	=1-L7			
8	675.5		0.0076		
9		15		=(N8+N10+SQRT(N8*N10))/3	
10	=L8+1		0.064		=O9
11		14		=(N10+N12+SQRT(N10*N12))/3	
12	=L10+1		0.1857		=P10+O11
13		13		=(N12+N14+SQRT(N12*N14))/3	
14	=L12+1		0.3263		=P12+O13
15		12		=N14	
16		12 (Adj)	3.4397	=N16*0.66	
17		12 (Adj)		1.66	
18	=L14+1		5.1493		=P14+O15+O16+O17
19		11		=(N18+N20+SQRT(N18*N20))/3	
20	=L18+1		6.327		=P18+O19
21		10		=(N20+N22+SQRT(N20*N22))/3	
22	=L20+1		8.1173		=P20+O21
23		9		=(N22+N24+SQRT(N22*N24))/3	
24	=L22+1		9.7301		=P22+O23
25		8		=(N24+N26+SQRT(N24*N26))/3	
26	=L24+1		12.0857		=P24+O25
27		7		=(N26+N28+SQRT(N26*N28))/3	
28	=L26+1		14.75		=P26+O27
29		6		=(N28+N34+SQRT(N28*N34))/3	
30		6 (Adj)		-0.84	
31		(0.5)(6)		=(N28+N32+SQRT(N28*N32))*(L32-L28)/3	
32	686		=N28*(N34-N28)*(L32-L28)		=P28+O31
33		5&6		=(N32+N34+SQRT(N32*N34))*(L34-L32)/3+N34*(L38-L34)	
34	=L28+1		29.6984		=P28+O29+O30
35		5		=N34	
36		5 (Adj)	32.3376	=N36*0.67	
37		5 (Adj)		19.54	
38	=L32+1		=N34		=P32+O33+O30+0.2537*O36+0.5*O37
39		4&5		=N38*(L40-L38)+(N40+N42+SQRT(N40*N42))*(L42-L40)/3	
40	=L34+1		77.3331		=P34+O35+O36+O37
41		4		=(N40+N44+SQRT(N40*N44))/3	
42	=L38+1		=N40*(N44-N40)*(L42-L40)		=P38+O39+0.7463*O36+0.5*O37
43		3&4		=(N44+N46+SQRT(N44*N46))*(L46-L44)/3+(N42+N44+SQRT(N42*N44))*(L44-L42)/3	
44	=L40+1		78.9604		=P40+O41
45		3		=(N44+N48+SQRT(N44*N48))/3	
46	=L42+1		=N44*(N48-N44)*(L46-L44)		=P42+O43
47		2&3		=(N48+N50+SQRT(N48*N50))*(L50-L48)/3+(N46+N48+SQRT(N46*N48))*(L48-L46)/3	
48	=L44+1		80.5479		=P44+O45
49		2		=(N48+N51+SQRT(N48*N51))/3	
50	=L46+1		=N48*(N51-N48)*(L50-L48)		=P46+O47
51	=L48+1		82.1516		=P48+O49
52					
53					
54					
55					
56					
57					

EXCEL Formulas for Table 6.1 Determination of UHS Area-Capacity Profiles

1	Q	R	S	T	U	V
2				with 1 feet of Sediment		
3			Surface	Incremental	Total	
4	Elevation	Slice	Area	Volume	Volume	
5	(feet)	Number	(acres)	(acre-feet)	(acre-feet)	
6						
7						
8	676		0.0076		-	
9		15		$=(S8+S10+SQRT(S8*S10))/3$		
10	$=Q8+1$		0.064		$=T9$	
11		14		$=(S10+S12+SQRT(S10*S12))/3$		
12	$=Q10+1$		0.1857		$=U10+T11$	
13		13		$=(S12+S14+SQRT(S12*S14))/3$		
14	$=Q12+1$		0.3263		$=U12+T13$	
15		12		0.33		
16		12 (Adj)	3.4397	$=S16*0.66$		
17		12 (Adj)		1.66		
18	$=Q14+1$		5.1493		$=U14+T15+T16+T17$	
19		11		$=(S18+S20+SQRT(S18*S20))/3$		
20	$=Q18+1$		6.327		$=U18+T19$	
21		10		$=(S20+S22+SQRT(S20*S22))/3$		
22	$=Q20+1$		8.1173		$=U20+T21$	
23		9		$=(S22+S24+SQRT(S22*S24))/3$		
24	$=Q22+1$		9.7301		$=U22+T23$	
25		8		$=(S24+S26+SQRT(S24*S26))/3$		
26	$=Q24+1$		12.0857		$=U24+T25$	
27		7		$=(S26+S28+SQRT(S26*S28))/3$		
28	$=Q26+1$		14.75		$=U26+T27$	
29		6		$=(S28+S31+SQRT(S28*S31))/3$		
30		6 (Adj)		-0.84		
31			29.6984		$=U28+T29+T30$	
32	$=Q28+1$	5		29.7		
33		5 (Adj)	32.3376	$=S33*0.67$		
34	$=Q32+1$	5 (Adj)		19.54		
35			77.3331		$=U31+T32+T33+T34$	
36	$=Q34+1$	4		$=(S35+S37+SQRT(S35*S37))/3$		
37			78.9604		$=U35+T36$	
38	$=Q36+1$	3		$=(S37+S39+SQRT(S37*S39))/3$		
39			80.5479		$=U37+T38$	
40		2		$=(S39+S41+SQRT(S39*S41))/3$		
41			82.1516		$=U39+T40$	
42						
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EXCEL Formulas for Table 6.1 Determination of UHS Area-Capacity Profiles

1	W	X	Y	Z	AA
2				with 1.5 feet of Sediment	
3			Surface	Incremental	Total
4	Elevation	Slice	Area	Volume	Volume
5	(feet)	Number	(acres)	(acre-feet)	(acre-feet)
7	0.5	=1-W7			
8	676.5		0.0076		-
9		15		$= (Y8 + Y10 + \text{SQRT}(Y8 * Y10)) / 3$	
10	=W8+1		0.064		=Z9
11		14		$= (Y10 + Y12 + \text{SQRT}(Y10 * Y12)) / 3$	
12	=W10+1		0.1857		=AA10+Z11
13		13		$= (Y12 + Y14 + \text{SQRT}(Y12 * Y14)) / 3$	
14	=W12+1		0.3263		=AA12+Z13
15		12		=Y14	
16		12 (Adj)	3.4397	=Y16*0.66	
17		12 (Adj)		1.66	
18	=W14+1		5.1493		=AA14+Z15+Z16+Z17
19		11		$= (Y18 + Y20 + \text{SQRT}(Y18 * Y20)) / 3$	
20	=W18+1		6.327		=AA18+Z19
21		10		$= (Y20 + Y22 + \text{SQRT}(Y20 * Y22)) / 3$	
22	=W20+1		8.1173		=AA20+Z21
23		9		$= (Y22 + Y24 + \text{SQRT}(Y22 * Y24)) / 3$	
24	=W22+1		9.7301		=AA22+Z23
25		8		$= (Y24 + Y26 + \text{SQRT}(Y24 * Y26)) / 3$	
26	=W24+1		12.0857		=AA24+Z25
27		7		$= (Y26 + Y31 + \text{SQRT}(Y26 * Y31)) / 3$	
28		(0.5)(7)		$= (Y26 + Y29 + \text{SQRT}(Y26 * Y29)) * (W29 - W26) / 3$	
29	686		=Y26+(Y31-Y26)*(W29-W26)		=AA26+Z28
30		6&7		$= (Y29 + Y31 + \text{SQRT}(Y29 * Y31)) * (W31 - W29) / 3 + (Y31 + Y34 + \text{SQRT}(Y31 * Y34)) * (W34 - W31) / 3$	
31	=W26+1		14.75		=AA26+Z27
32		6		$= (Y31 + Y36 + \text{SQRT}(Y31 * Y36)) / 3$	
33		6 (Adj)		-0.84	
34	=W29+1		=Y31+(Y36-Y31)*(W34-W31)		=AA29+Z30
35		5&6		$= (Y34 + Y36 + \text{SQRT}(Y34 * Y36)) * (W36 - W34) / 3 + Y36 * (W40 - W36)$	
36	=W31+1		29.6984		=AA31+Z32+Z33
37		5		=Y36	
38		5 (Adj)	32.3376	=Y38*0.67	
39		5 (Adj)		19.54	
40	=W34+1		=Y36		=AA34+Z36+Z33+0.2637*Z38+0.5*Z39
41		4&5		$= Y40 * (W42 - W40) + (Y42 + Y44 + \text{SQRT}(Y42 * Y44)) * (W44 - W42) / 3$	
42	=W36+1		77.3331		=AA36+Z37+Z38+Z39
43		4		$= (Y42 + Y46 + \text{SQRT}(Y42 * Y46)) / 3$	
44	=W40+1		=Y42+(Y46-Y42)*(W44-W42)		=AA40+Z41+0.7463*Z38+0.5*Z39
45		3&4		$= (Y46 + Y48 + \text{SQRT}(Y46 * Y48)) * (W48 - W46) / 3 + (Y44 + Y46 + \text{SQRT}(Y44 * Y46)) * (W46 - W44) / 3$	
46	=W42+1		78.9604		=AA42+Z43
47		3		$= (Y46 + Y50 + \text{SQRT}(Y46 * Y50)) / 3$	
48	=W44+1		=Y46+(Y50-Y46)*(W48-W46)		=AA44+Z45
49		2&3		$= (Y50 + Y52 + \text{SQRT}(Y50 * Y52)) * (W52 - W50) / 3 + (Y48 + Y50 + \text{SQRT}(Y48 * Y50)) * (W50 - W48) / 3$	
50	=W46+1		80.5479		=AA46+Z47
51		2		$= (Y50 + Y53 + \text{SQRT}(Y50 * Y53)) / 3$	
52	=W48+1		=Y50+(Y53-Y50)*(W52-W50)		=AA48+Z49
53	=W50+1		82.1516		=AA50+Z51
54					
55					
56					
57					

Excel Formulas for Table 7.2 Plant Temperature Rise

	A	B	C	D	E	F	G	H
1		S Flowrate	86		cts	Mass Flow	=C1*C2*3600	lbm/hr
2		Density	62.02		lbm/ft3	cp	1	Btu/lbm/F
3	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
4	0.0000001	3	=D4/GS1/GS2	=E4/(B4-A4)	=F4	=G4+H4	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B4)	=Total/E2/2
5	=B4	=B4+3	=D5/GS1/GS2	=E5/(B5-A5)	=F5-F4	=G5+H5	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B5)	=Total/E3
6	=B5	=B5+3	=D6/GS1/GS2	=E6/(B6-A6)	=F6-F5	=G6+H6	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B6)	=H5
7	=B6	=B6+3	=D7/GS1/GS2	=E7/(B7-A7)	=F7-F6	=G7+H7	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B7)	=H6
8	=B7	=B7+3	=D8/GS1/GS2	=E8/(B8-A8)	=F8-F7	=G8+H8	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B8)	=H7
9	=B8	=B8+3	=D9/GS1/GS2	=E9/(B9-A9)	=F9-F8	=G9+H9	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B9)	=H8
10	=B9	=B9+3	=D10/GS1/GS2	=E10/(B10-A10)	=F10-F9	=G10+H10	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B10)	=H9
11	=B10	=B10+3	=D11/GS1/GS2	=E11/(B11-A11)	=F11-F10	=G11+H11	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B11)	=H10
12	=B11	=B11+3	=D12/GS1/GS2	=E12/(B12-A12)	=F12-F11	=G12+H12	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B12)	=H11
13	=B12	=B12+3	=D13/GS1/GS2	=E13/(B13-A13)	=F13-F12	=G13+H13	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B13)	=H12
14	=B13	=B13+3	=D14/GS1/GS2	=E14/(B14-A14)	=F14-F13	=G14+H14	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B14)	=H13
15	=B14	=B14+3	=D15/GS1/GS2	=E15/(B15-A15)	=F15-F14	=G15+H15	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B15)	=H14
16	=B15	=B15+3	=D16/GS1/GS2	=E16/(B16-A16)	=F16-F15	=G16+H16	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B16)	=H15
17	=B16	=B16+3	=D17/GS1/GS2	=E17/(B17-A17)	=F17-F16	=G17+H17	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B17)	=H16
18	=B17	=B17+3	=D18/GS1/GS2	=E18/(B18-A18)	=F18-F17	=G18+H18	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B18)	=H17
19	=B18	=B18+3	=D19/GS1/GS2	=E19/(B19-A19)	=F19-F18	=G19+H19	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B19)	=H18
20	=B19	=B19+3	=D20/GS1/GS2	=E20/(B20-A20)	=F20-F19	=G20+H20	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B20)	=H19
21	=B20	=B20+3	=D21/GS1/GS2	=E21/(B21-A21)	=F21-F20	=G21+H21	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B21)	=H20
22	=B21	=B21+3	=D22/GS1/GS2	=E22/(B22-A22)	=F22-F21	=G22+H22	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B22)	=H21
23	=B22	=B22+3	=D23/GS1/GS2	=E23/(B23-A23)	=F23-F22	=G23+H23	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B23)	=H22
24	=B23	=B23+3	=D24/GS1/GS2	=E24/(B24-A24)	=F24-F23	=G24+H24	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B24)	=H23
25	=B24	=B24+3	=D25/GS1/GS2	=E25/(B25-A25)	=F25-F24	=G25+H25	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B25)	=H24
26	=B25	=B25+3	=D26/GS1/GS2	=E26/(B26-A26)	=F26-F25	=G26+H26	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B26)	=H25
27	=B26	=B26+3	=D27/GS1/GS2	=E27/(B27-A27)	=F27-F26	=G27+H27	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B27)	=H26
28	=B27	=B27+3	=D28/GS1/GS2	=E28/(B28-A28)	=F28-F27	=G28+H28	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B28)	=H27
29	=B28	=B28+3	=D29/GS1/GS2	=E29/(B29-A29)	=F29-F28	=G29+H29	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B29)	=H28
30	=B29	=B29+3	=D30/GS1/GS2	=E30/(B30-A30)	=F30-F29	=G30+H30	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B30)	=H29
31	=B30	=B30+3	=D31/GS1/GS2	=E31/(B31-A31)	=F31-F30	=G31+H31	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B31)	=H30
32	=B31	=B31+3	=D32/GS1/GS2	=E32/(B32-A32)	=F32-F31	=G32+H32	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B32)	=H31
33	=B32	=B32+3	=D33/GS1/GS2	=E33/(B33-A33)	=F33-F32	=G33+H33	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B33)	=H32
34	=B33	=B33+3	=D34/GS1/GS2	=E34/(B34-A34)	=F34-F33	=G34+H34	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B34)	=H33
35	=B34	=B34+3	=D35/GS1/GS2	=E35/(B35-A35)	=F35-F34	=G35+H35	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B35)	=H34
36	=B35	=B35+3	=D36/GS1/GS2	=E36/(B36-A36)	=F36-F35	=G36+H36	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B36)	=H35
37	=B36	=B36+3	=D37/GS1/GS2	=E37/(B37-A37)	=F37-F36	=G37+H37	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B37)	=H36
38	=B37	=B37+3	=D38/GS1/GS2	=E38/(B38-A38)	=F38-F37	=G38+H38	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B38)	=H37
39	=B38	=B38+3	=D39/GS1/GS2	=E39/(B39-A39)	=F39-F38	=G39+H39	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B39)	=H38
40	=B39	=B39+3	=D40/GS1/GS2	=E40/(B40-A40)	=F40-F39	=G40+H40	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B40)	=H39
41	=B40	=B40+3	=D41/GS1/GS2	=E41/(B41-A41)	=F41-F40	=G41+H41	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B41)	=H40
42	=B41	=B41+3	=D42/GS1/GS2	=E42/(B42-A42)	=F42-F41	=G42+H42	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B42)	=H41
43	=B42	=B42+3	=D43/GS1/GS2	=E43/(B43-A43)	=F43-F42	=G43+H43	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B43)	=H42
44	=B43	=B43+3	=D44/GS1/GS2	=E44/(B44-A44)	=F44-F43	=G44+H44	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B44)	=H43
45	=B44	=B44+3	=D45/GS1/GS2	=E45/(B45-A45)	=F45-F44	=G45+H45	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B45)	=H44
46	=B45	=B45+3	=D46/GS1/GS2	=E46/(B46-A46)	=F46-F45	=G46+H46	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B46)	=H45
47	=B46	=B46+3	=D47/GS1/GS2	=E47/(B47-A47)	=F47-F46	=G47+H47	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B47)	=H46
48	=B47	=B47+3	=D48/GS1/GS2	=E48/(B48-A48)	=F48-F47	=G48+H48	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B48)	=H47
49	=B48	=B48+3	=D49/GS1/GS2	=E49/(B49-A49)	=F49-F48	=G49+H49	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B49)	=H48
50	=B49	=B49+3	=D50/GS1/GS2	=E50/(B50-A50)	=F50-F49	=G50+H50	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B50)	=H49
51	=B50	=B50+3	=D51/GS1/GS2	=E51/(B51-A51)	=F51-F50	=G51+H51	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B51)	=H50
52	=B51	=B51+3	=D52/GS1/GS2	=E52/(B52-A52)	=F52-F51	=G52+H52	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B52)	=H51
53	=B52	=B52+3	=D53/GS1/GS2	=E53/(B53-A53)	=F53-F52	=G53+H53	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B53)	=H52
54	=B53	=B53+3	=D54/GS1/GS2	=E54/(B54-A54)	=F54-F53	=G54+H54	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B54)	=H53
55	=B54	=B54+3	=D55/GS1/GS2	=E55/(B55-A55)	=F55-F54	=G55+H55	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B55)	=H54
56	=B55	=B55+3	=D56/GS1/GS2	=E56/(B56-A56)	=F56-F55	=G56+H56	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B56)	=H55
57	=B56	=B56+3	=D57/GS1/GS2	=E57/(B57-A57)	=F57-F56	=G57+H57	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B57)	=H56
58	=B57	=B57+3	=D58/GS1/GS2	=E58/(B58-A58)	=F58-F57	=G58+H58	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B58)	=H57
59	=B58	=B58+3	=D59/GS1/GS2	=E59/(B59-A59)	=F59-F58	=G59+H59	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B59)	=H58
60	=B59	=B59+3	=D60/GS1/GS2	=E60/(B60-A60)	=F60-F59	=G60+H60	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B60)	=H59
61	=B60	=B60+3	=D61/GS1/GS2	=E61/(B61-A61)	=F61-F60	=G61+H61	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B61)	=H60
62	=B61	=B61+3	=D62/GS1/GS2	=E62/(B62-A62)	=F62-F61	=G62+H62	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B62)	=H61
63	=B62	=B62+3	=D63/GS1/GS2	=E63/(B63-A63)	=F63-F62	=G63+H63	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B63)	=H62
64	=B63	=B63+3	=D64/GS1/GS2	=E64/(B64-A64)	=F64-F63	=G64+H64	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B64)	=H63
65	=B64	=B64+3	=D65/GS1/GS2	=E65/(B65-A65)	=F65-F64	=G65+H65	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B65)	=H64
66	=B65	=B65+3	=D66/GS1/GS2	=E66/(B66-A66)	=F66-F65	=G66+H66	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B66)	=H65
67	=B66	=B66+3	=D67/GS1/GS2	=E67/(B67-A67)	=F67-F66	=G67+H67	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B67)	=H66
68	=B67	=B67+3	=D68/GS1/GS2	=E68/(B68-A68)	=F68-F67	=G68+H68	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B68)	=H67
69	=B68	=B68+3	=D69/GS1/GS2	=E69/(B69-A69)	=F69-F68	=G69+H69	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B69)	=H68
70	=B69	=B69+3	=D70/GS1/GS2	=E70/(B70-A70)	=F70-F69	=G70+H70	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B70)	=H69
71	=B70	=B70+3	=D71/GS1/GS2	=E71/(B71-A71)	=F71-F70	=G71+H71	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B71)	=H70
72	=B71	=B71+3	=D72/GS1/GS2	=E72/(B72-A72)	=F72-F71	=G72+H72	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B72)	=H71
73	=B72	=B72+3	=D73/GS1/GS2	=E73/(B73-A73)	=F73-F72	=G73+H73	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B73)	=H72
74	=B73	=B73+3	=D74/GS1/GS2	=E74/(B74-A74)	=F74-F73	=G74+H74	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B74)	=H73
75	=B74	=B74+3	=D75/GS1/GS2	=E75/(B75-A75)	=F75-F74	=G75+H75	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B75)	=H74
76	=B75	=B75+3	=D76/GS1/GS2	=E76/(B76-A76)	=F76-F75	=G76+H76	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B76)	=H75
77	=B76	=B76+3	=D77/GS1/GS2	=E77/(B77-A77)	=F77-F76	=G77+H77	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B77)	=H76
78	=B77	=B77+3	=D78/GS1/GS2	=E78/(B78-A78)	=F78-F77	=G78+H78	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B78)	=H77
79	=B78	=B78+3	=D79/GS1/GS2	=E79/(B79-A79)	=F79-F78	=G79+H79	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B79)	=H78
80	=B79	=B79+3	=D80/GS1/GS2	=E80/(B80-A80)	=F80-F79	=G80+H80	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B80)	=H79
81	=B80	=B80+3	=D81/GS1/GS2	=E81/(B81-A81)	=F81-F80	=G81+H81	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B81)	=H80
82	=B81	=B81+3	=D82/GS1/GS2	=E82/(B82-A82)	=F82-F81	=G82+H82	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B82)	=H81
83	=B82	=B82+3	=D83/GS1/GS2	=E83/(B83-A83)	=F83-F82	=G83+H83	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B83)	=H82
84	=B83	=B83+3	=D84/GS1/GS2	=E84/(B84-A84)	=F84-F83	=G84+H84	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B84)	=H83
85	=B84	=B84+3	=D85/GS1/GS2	=E85/(B85-A85)	=F85-F84	=G85+H85	=INTERP2(Total, "Total", "B2:B73", "D2:D73", ROWS(SB\$2:SB\$73), B85)	=H84

Excel Formulas for Table 7.2 Plant Temperature Rise

	A	B	C	D	E	F	G	H
3	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
86	=B86	=B86+3	=D86/G\$1/G\$2	=E86/(B86-A86)	=F86-F85	=G86+H86	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B86)	=H85
87	=B86	=B86+3	=D87/G\$1/G\$2	=E87/(B87-A87)	=F87-F86	=G87+H87	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B87)	=H86
88	=B87	=B87+3	=D88/G\$1/G\$2	=E88/(B88-A88)	=F88-F87	=G88+H88	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B88)	=H87
89	=B88	=B88+3	=D89/G\$1/G\$2	=E89/(B89-A89)	=F89-F88	=G89+H89	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B89)	=H88
90	=B89	=B89+3	=D90/G\$1/G\$2	=E90/(B90-A90)	=F90-F89	=G90+H90	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B90)	=H89
91	=B90	=B90+3	=D91/G\$1/G\$2	=E91/(B91-A91)	=F91-F90	=G91+H91	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B91)	=H90
92	=B91	=B91+3	=D92/G\$1/G\$2	=E92/(B92-A92)	=F92-F91	=G92+H92	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B92)	=H91
93	=B92	=B92+3	=D93/G\$1/G\$2	=E93/(B93-A93)	=F93-F92	=G93+H93	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B93)	=H92
94	=B93	=B93+3	=D94/G\$1/G\$2	=E94/(B94-A94)	=F94-F93	=G94+H94	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B94)	=H93
95	=B94	=B94+3	=D95/G\$1/G\$2	=E95/(B95-A95)	=F95-F94	=G95+H95	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B95)	=H94
96	=B95	=B95+3	=D96/G\$1/G\$2	=E96/(B96-A96)	=F96-F95	=G96+H96	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B96)	=H95
97	=B96	=B96+3	=D97/G\$1/G\$2	=E97/(B97-A97)	=F97-F96	=G97+H97	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B97)	=H96
98	=B97	=B97+3	=D98/G\$1/G\$2	=E98/(B98-A98)	=F98-F97	=G98+H98	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B98)	=H97
99	=B98	=B98+3	=D99/G\$1/G\$2	=E99/(B99-A99)	=F99-F98	=G99+H99	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B99)	=H98
100	=B99	=B99+3	=D100/G\$1/G\$2	=E100/(B100-A100)	=F100-F99	=G100+H100	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B100)	=H99
101	=B100	=B100+3	=D101/G\$1/G\$2	=E101/(B101-A101)	=F101-F100	=G101+H101	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B101)	=H100
102	=B101	=B101+3	=D102/G\$1/G\$2	=E102/(B102-A102)	=F102-F101	=G102+H102	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B102)	=H101
103	=B102	=B102+3	=D103/G\$1/G\$2	=E103/(B103-A103)	=F103-F102	=G103+H103	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B103)	=H102
104	=B103	=B103+3	=D104/G\$1/G\$2	=E104/(B104-A104)	=F104-F103	=G104+H104	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B104)	=H103
105	=B104	=B104+3	=D105/G\$1/G\$2	=E105/(B105-A105)	=F105-F104	=G105+H105	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B105)	=H104
106	=B105	=B105+3	=D106/G\$1/G\$2	=E106/(B106-A106)	=F106-F105	=G106+H106	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B106)	=H105
107	=B106	=B106+3	=D107/G\$1/G\$2	=E107/(B107-A107)	=F107-F106	=G107+H107	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B107)	=H106
108	=B107	=B107+3	=D108/G\$1/G\$2	=E108/(B108-A108)	=F108-F107	=G108+H108	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B108)	=H107
109	=B108	=B108+3	=D109/G\$1/G\$2	=E109/(B109-A109)	=F109-F108	=G109+H109	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B109)	=H108
110	=B109	=B109+3	=D110/G\$1/G\$2	=E110/(B110-A110)	=F110-F109	=G110+H110	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B110)	=H109
111	=B110	=B110+3	=D111/G\$1/G\$2	=E111/(B111-A111)	=F111-F110	=G111+H111	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B111)	=H110
112	=B111	=B111+3	=D112/G\$1/G\$2	=E112/(B112-A112)	=F112-F111	=G112+H112	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B112)	=H111
113	=B112	=B112+3	=D113/G\$1/G\$2	=E113/(B113-A113)	=F113-F112	=G113+H113	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B113)	=H112
114	=B113	=B113+3	=D114/G\$1/G\$2	=E114/(B114-A114)	=F114-F113	=G114+H114	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B114)	=H113
115	=B114	=B114+3	=D115/G\$1/G\$2	=E115/(B115-A115)	=F115-F114	=G115+H115	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B115)	=H114
116	=B115	=B115+3	=D116/G\$1/G\$2	=E116/(B116-A116)	=F116-F115	=G116+H116	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B116)	=H115
117	=B116	=B116+3	=D117/G\$1/G\$2	=E117/(B117-A117)	=F117-F116	=G117+H117	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B117)	=H116
118	=B117	=B117+3	=D118/G\$1/G\$2	=E118/(B118-A118)	=F118-F117	=G118+H118	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B118)	=H117
119	=B118	=B118+3	=D119/G\$1/G\$2	=E119/(B119-A119)	=F119-F118	=G119+H119	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B119)	=H118
120	=B119	=B119+3	=D120/G\$1/G\$2	=E120/(B120-A120)	=F120-F119	=G120+H120	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B120)	=H119
121	=B120	=B120+3	=D121/G\$1/G\$2	=E121/(B121-A121)	=F121-F120	=G121+H121	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B121)	=H120
122	=B121	=B121+3	=D122/G\$1/G\$2	=E122/(B122-A122)	=F122-F121	=G122+H122	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B122)	=H121
123	=B122	=B122+3	=D123/G\$1/G\$2	=E123/(B123-A123)	=F123-F122	=G123+H123	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B123)	=H122
124	=B123	=B123+3	=D124/G\$1/G\$2	=E124/(B124-A124)	=F124-F123	=G124+H124	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B124)	=H123
125	=B124	=B124+3	=D125/G\$1/G\$2	=E125/(B125-A125)	=F125-F124	=G125+H125	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B125)	=H124
126	=B125	=B125+3	=D126/G\$1/G\$2	=E126/(B126-A126)	=F126-F125	=G126+H126	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B126)	=H125
127	=B126	=B126+3	=D127/G\$1/G\$2	=E127/(B127-A127)	=F127-F126	=G127+H127	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B127)	=H126
128	=B127	=B127+3	=D128/G\$1/G\$2	=E128/(B128-A128)	=F128-F127	=G128+H128	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B128)	=H127
129	=B128	=B128+3	=D129/G\$1/G\$2	=E129/(B129-A129)	=F129-F128	=G129+H129	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B129)	=H128
130	=B129	=B129+3	=D130/G\$1/G\$2	=E130/(B130-A130)	=F130-F129	=G130+H130	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B130)	=H129
131	=B130	=B130+3	=D131/G\$1/G\$2	=E131/(B131-A131)	=F131-F130	=G131+H131	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B131)	=H130
132	=B131	=B131+3	=D132/G\$1/G\$2	=E132/(B132-A132)	=F132-F131	=G132+H132	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B132)	=H131
133	=B132	=B132+3	=D133/G\$1/G\$2	=E133/(B133-A133)	=F133-F132	=G133+H133	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B133)	=H132
134	=B133	=B133+3	=D134/G\$1/G\$2	=E134/(B134-A134)	=F134-F133	=G134+H134	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B134)	=H133
135	=B134	=B134+3	=D135/G\$1/G\$2	=E135/(B135-A135)	=F135-F134	=G135+H135	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B135)	=H134
136	=B135	=B135+3	=D136/G\$1/G\$2	=E136/(B136-A136)	=F136-F135	=G136+H136	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B136)	=H135
137	=B136	=B136+3	=D137/G\$1/G\$2	=E137/(B137-A137)	=F137-F136	=G137+H137	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B137)	=H136
138	=B137	=B137+3	=D138/G\$1/G\$2	=E138/(B138-A138)	=F138-F137	=G138+H138	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B138)	=H137
139	=B138	=B138+3	=D139/G\$1/G\$2	=E139/(B139-A139)	=F139-F138	=G139+H139	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B139)	=H138
140	=B139	=B139+3	=D140/G\$1/G\$2	=E140/(B140-A140)	=F140-F139	=G140+H140	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B140)	=H139
141	=B140	=B140+3	=D141/G\$1/G\$2	=E141/(B141-A141)	=F141-F140	=G141+H141	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B141)	=H140
142	=B141	=B141+3	=D142/G\$1/G\$2	=E142/(B142-A142)	=F142-F141	=G142+H142	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B142)	=H141
143	=B142	=B142+3	=D143/G\$1/G\$2	=E143/(B143-A143)	=F143-F142	=G143+H143	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B143)	=H142
144	=B143	=B143+3	=D144/G\$1/G\$2	=E144/(B144-A144)	=F144-F143	=G144+H144	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B144)	=H143
145	=B144	=B144+3	=D145/G\$1/G\$2	=E145/(B145-A145)	=F145-F144	=G145+H145	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B145)	=H144
146	=B145	=B145+3	=D146/G\$1/G\$2	=E146/(B146-A146)	=F146-F145	=G146+H146	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B146)	=H145
147	=B146	=B146+3	=D147/G\$1/G\$2	=E147/(B147-A147)	=F147-F146	=G147+H147	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B147)	=H146
148	=B147	=B147+3	=D148/G\$1/G\$2	=E148/(B148-A148)	=F148-F147	=G148+H148	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B148)	=H147
149	=B148	=B148+3	=D149/G\$1/G\$2	=E149/(B149-A149)	=F149-F148	=G149+H149	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B149)	=H148
150	=B149	=B149+3	=D150/G\$1/G\$2	=E150/(B150-A150)	=F150-F149	=G150+H150	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B150)	=H149
151	=B150	=B150+3	=D151/G\$1/G\$2	=E151/(B151-A151)	=F151-F150	=G151+H151	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B151)	=H150
152	=B151	=B151+3	=D152/G\$1/G\$2	=E152/(B152-A152)	=F152-F151	=G152+H152	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B152)	=H151
153	=B152	=B152+3	=D153/G\$1/G\$2	=E153/(B153-A153)	=F153-F152	=G153+H153	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B153)	=H152
154	=B153	=B153+3	=D154/G\$1/G\$2	=E154/(B154-A154)	=F154-F153	=G154+H154	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B154)	=H153
155	=B154	=B154+3	=D155/G\$1/G\$2	=E155/(B155-A155)	=F155-F154	=G155+H155	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B155)	=H154
156	=B155	=B155+3	=D156/G\$1/G\$2	=E156/(B156-A156)	=F156-F155	=G156+H156	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B156)	=H155
157	=B156	=B156+3	=D157/G\$1/G\$2	=E157/(B157-A157)	=F157-F156	=G157+H157	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B157)	=H156
158	=B157	=B157+3	=D158/G\$1/G\$2	=E158/(B158-A158)	=F158-F157	=G158+H158	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B158)	=H157
159	=B158	=B158+3	=D159/G\$1/G\$2	=E159/(B159-A159)	=F159-F158	=G159+H159	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B159)	=H158
160	=B159	=B159+3	=D160/G\$1/G\$2	=E160/(B160-A160)	=F160-F159	=G160+H160	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B160)	=H159
161	=B160	=B160+3	=D161/G\$1/G\$2	=E161/(B161-A161)	=F161-F160	=G161+H161	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B161)	=H160
162	=B161	=B161+3	=D162/G\$1/G\$2	=E162/(B162-A162)	=F162-F161	=G162+H162	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B162)	=H161
163	=B162	=B162+3	=D163/G\$1/G\$2	=E163/(B163-A163)	=F163-F162	=G163+H163	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B163)	=H162
164	=B163	=B163+3	=D164/G\$1/G\$2	=E164/(B164-A164)	=F164-F163	=G164+H164	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B164)	=H163
165	=B164	=B164+3	=D165/G\$1/G\$2	=E165/(B165-A165)	=F165-F164	=G165+H165	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B165)	=H164
166	=B165	=B165+3	=D166/G\$1/G\$2	=E166/(B166-A166)	=F166-F165	=G166+H166	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B166)	=H165
167	=B166	=B166+3	=D167/G\$1/G\$2	=E167/(B167-A167)	=F167-F166	=G167+H167	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B167)	=H166
168	=B167	=B167+3	=D168/G\$1/G\$2	=E168/(B168-A168)	=F168-F167	=G168+H168	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B168)	=H167
169	=B168	=B168+3	=D169/G\$1/G\$2	=E169/(B169-A169)	=F169-F168	=G169+H169	=INTERP2(Total,"Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B169)	=H168

Excel Formulas for Table 7.2 Plant Temperature Rise

	A	B	C	D	E	F	G	H
3	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
254	=B253	=B253+3	=D254/GS1/GS2	=E254/(B254-A254)	=F254-F253	=G254+H254	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B254)	=H253
255	=B254	=B254+3	=D255/GS1/GS2	=E255/(B255-A255)	=F255-F254	=G255+H255	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B255)	=H254
256	=B255	=B255+3	=D256/GS1/GS2	=E256/(B256-A256)	=F256-F255	=G256+H256	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B256)	=H255
257	=B256	=B256+3	=D257/GS1/GS2	=E257/(B257-A257)	=F257-F256	=G257+H257	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B257)	=H256
258	=B257	=B257+3	=D258/GS1/GS2	=E258/(B258-A258)	=F258-F257	=G258+H258	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B258)	=H257
259	=B258	=B258+3	=D259/GS1/GS2	=E259/(B259-A259)	=F259-F258	=G259+H259	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B259)	=H258
260	=B259	=B259+3	=D260/GS1/GS2	=E260/(B260-A260)	=F260-F259	=G260+H260	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B260)	=H259
261	=B260	=B260+3	=D261/GS1/GS2	=E261/(B261-A261)	=F261-F260	=G261+H261	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B261)	=H260
262	=B261	=B261+3	=D262/GS1/GS2	=E262/(B262-A262)	=F262-F261	=G262+H262	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B262)	=H261
263	=B262	=B262+3	=D263/GS1/GS2	=E263/(B263-A263)	=F263-F262	=G263+H263	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B263)	=H262
264	=B263	=B263+3	=D264/GS1/GS2	=E264/(B264-A264)	=F264-F263	=G264+H264	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B264)	=H263
265	=B264	=B264+3	=D265/GS1/GS2	=E265/(B265-A265)	=F265-F264	=G265+H265	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B265)	=H264
266	=B265	=B265+3	=D266/GS1/GS2	=E266/(B266-A266)	=F266-F265	=G266+H266	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B266)	=H265
267	=B266	=B266+3	=D267/GS1/GS2	=E267/(B267-A267)	=F267-F266	=G267+H267	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B267)	=H266
268	=B267	=B267+3	=D268/GS1/GS2	=E268/(B268-A268)	=F268-F267	=G268+H268	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B268)	=H267
269	=B268	=B268+3	=D269/GS1/GS2	=E269/(B269-A269)	=F269-F268	=G269+H269	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B269)	=H268
270	=B269	=B269+3	=D270/GS1/GS2	=E270/(B270-A270)	=F270-F269	=G270+H270	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B270)	=H269
271	=B270	=B270+3	=D271/GS1/GS2	=E271/(B271-A271)	=F271-F270	=G271+H271	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B271)	=H270
272	=B271	=B271+3	=D272/GS1/GS2	=E272/(B272-A272)	=F272-F271	=G272+H272	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B272)	=H271
273	=B272	=B272+3	=D273/GS1/GS2	=E273/(B273-A273)	=F273-F272	=G273+H273	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B273)	=H272
274	=B273	=B273+3	=D274/GS1/GS2	=E274/(B274-A274)	=F274-F273	=G274+H274	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B274)	=H273
275	=B274	=B274+3	=D275/GS1/GS2	=E275/(B275-A275)	=F275-F274	=G275+H275	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B275)	=H274
276	=B275	=B275+3	=D276/GS1/GS2	=E276/(B276-A276)	=F276-F275	=G276+H276	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B276)	=H275
277	=B276	=B276+3	=D277/GS1/GS2	=E277/(B277-A277)	=F277-F276	=G277+H277	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B277)	=H276
278	=B277	=B277+3	=D278/GS1/GS2	=E278/(B278-A278)	=F278-F277	=G278+H278	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B278)	=H277
279	=B278	=B278+3	=D279/GS1/GS2	=E279/(B279-A279)	=F279-F278	=G279+H279	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B279)	=H278
280	=B279	=B279+3	=D280/GS1/GS2	=E280/(B280-A280)	=F280-F279	=G280+H280	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B280)	=H279
281	=B280	=B280+3	=D281/GS1/GS2	=E281/(B281-A281)	=F281-F280	=G281+H281	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B281)	=H280
282	=B281	=B281+3	=D282/GS1/GS2	=E282/(B282-A282)	=F282-F281	=G282+H282	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B282)	=H281
283	=B282	=B282+3	=D283/GS1/GS2	=E283/(B283-A283)	=F283-F282	=G283+H283	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B283)	=H282
284	=B283	=B283+3	=D284/GS1/GS2	=E284/(B284-A284)	=F284-F283	=G284+H284	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B284)	=H283
285	=B284	=B284+3	=D285/GS1/GS2	=E285/(B285-A285)	=F285-F284	=G285+H285	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B285)	=H284
286	=B285	=B285+3	=D286/GS1/GS2	=E286/(B286-A286)	=F286-F285	=G286+H286	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B286)	=H285
287	=B286	=B286+3	=D287/GS1/GS2	=E287/(B287-A287)	=F287-F286	=G287+H287	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B287)	=H286
288	=B287	=B287+3	=D288/GS1/GS2	=E288/(B288-A288)	=F288-F287	=G288+H288	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B288)	=H287
289	=B288	=B288+3	=D289/GS1/GS2	=E289/(B289-A289)	=F289-F288	=G289+H289	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B289)	=H288
290	=B289	=B289+3	=D290/GS1/GS2	=E290/(B290-A290)	=F290-F289	=G290+H290	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B290)	=H289
291	=B290	=B290+3	=D291/GS1/GS2	=E291/(B291-A291)	=F291-F290	=G291+H291	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B291)	=H290
292								
293			Average Heat Load	=AVERAGE(D4:D291)				

Excel Formulas for Table 7.2 Plant Temperature Rise

	A	B	C	D	E	F
1	Time (seconds)	Time (hours)	Combined Generated Heat Load (Btu/hr)	Integrated Generated Heat (Btu)	Sensible Heat Available (Btu)	Total Heat Available (Btu)
2	0	0	2.44E+10	0.00E+00	1.22E+09	1.22E+09
3	1.00E-01	2.78E-05	2.42E+10	6.75E+05	1.22E+09	1.22E+09
4	1.50E-01	4.17E-05	2.35E+10	1.01E+06	1.22E+09	1.22E+09
5	2.00E-01	5.56E-05	2.28E+10	1.33E+06	1.22E+09	1.22E+09
6	4.00E-01	1.11E-04	1.83E+10	2.47E+06	1.22E+09	1.22E+09
7	6.00E-01	1.67E-04	1.45E+10	3.38E+06	1.22E+09	1.22E+09
8	8.00E-01	2.22E-04	1.21E+10	4.12E+06	1.22E+09	1.22E+09
9	1.00E+00	2.78E-04	8.35E+09	4.68E+06	1.22E+09	1.22E+09
10	1.50E+00	4.17E-04	6.11E+09	5.69E+06	1.22E+09	1.22E+09
11	2.00E+00	5.56E-04	3.88E+09	6.38E+06	1.22E+09	1.23E+09
12	4.00E+00	1.11E-03	1.91E+09	7.99E+06	1.22E+09	1.23E+09
13	6.00E+00	1.67E-03	1.60E+09	8.97E+06	1.22E+09	1.23E+09
14	8.00E+00	2.22E-03	1.50E+09	9.83E+06	1.22E+09	1.23E+09
15	1.00E+01	2.78E-03	1.40E+09	1.06E+07	1.22E+09	1.23E+09
16	1.50E+01	4.17E-03	1.30E+09	1.25E+07	1.22E+09	1.23E+09
17	2.00E+01	5.56E-03	1.23E+09	1.43E+07	1.22E+09	1.23E+09
18	4.00E+01	1.11E-02	1.09E+09	2.07E+07	1.22E+09	1.24E+09
19	6.00E+01	1.67E-02	1.02E+09	2.66E+07	1.22E+09	1.25E+09
20	8.00E+01	2.22E-02	9.66E+08	3.21E+07	1.22E+09	1.25E+09
21	1.00E+02	2.78E-02	9.45E+08	3.74E+07	1.22E+09	1.26E+09
22	1.50E+02	4.17E-02	8.71E+08	5.00E+07	1.22E+09	1.27E+09
23	2.00E+02	5.56E-02	8.31E+08	6.18E+07	1.22E+09	1.28E+09
24	4.00E+02	1.11E-01	7.44E+08	1.06E+08	1.22E+09	1.32E+09
25	6.00E+02	1.67E-01	6.95E+08	1.46E+08	1.22E+09	1.36E+09
26	8.00E+02	2.22E-01	6.59E+08	1.83E+08	1.22E+09	1.40E+09
27	1.00E+03	2.78E-01	6.30E+08	2.19E+08	1.22E+09	1.44E+09
28	1.50E+03	4.17E-01	5.77E+08	3.03E+08	1.22E+09	1.52E+09
29	2.00E+03	5.56E-01	5.39E+08	3.80E+08	1.22E+09	1.60E+09
30	4.00E+03	1.11E+00	4.57E+08	6.57E+08	1.22E+09	1.88E+09
31	6.00E+03	1.67E+00	4.18E+08	9.00E+08	1.22E+09	2.12E+09
32	8.00E+03	2.22E+00	3.95E+08	1.13E+09	1.22E+09	2.34E+09
33	1.00E+04	2.78E+00	3.79E+08	1.34E+09	1.22E+09	2.56E+09
34	1.50E+04	4.17E+00	3.53E+08	1.85E+09	1.22E+09	3.07E+09
35	2.00E+04	5.56E+00	3.37E+08	2.33E+09	1.22E+09	3.55E+09
36	4.00E+04	1.11E+01	3.03E+08	4.11E+09	1.22E+09	5.33E+09
37	6.00E+04	1.67E+01	2.85E+08	5.74E+09	1.22E+09	6.96E+09
38	8.00E+04	2.22E+01	2.73E+08	7.29E+09	1.22E+09	8.51E+09
39	8.64E+04	2.40E+01	2.70E+08	7.77E+09	1.22E+09	8.99E+09
40	1.00E+05	2.78E+01	2.64E+08	8.78E+09	1.22E+09	1.00E+10
41	1.50E+05	4.17E+01	2.47E+08	1.23E+10	1.22E+09	1.35E+10
42	1.78E+05	4.94E+01	2.42E+08	1.42E+10	1.22E+09	1.54E+10
43	2.00E+05	5.56E+01	2.36E+08	1.57E+10	1.22E+09	1.69E+10
44	2.59E+05	7.19E+01	2.26E+08	1.95E+10	1.22E+09	2.07E+10
45	3.46E+05	9.61E+01	2.15E+08	2.48E+10	1.22E+09	2.60E+10
46	4.00E+05	1.11E+02	2.10E+08	2.80E+10	1.22E+09	2.92E+10

Excel Formulas for Table 7.2 Plant Temperature Rise

	A	B	C	D	E	F
1	Time (seconds)	Time (hours)	Combined Generated Heat Load (Btu/hr)	Integrated Generated Heat (Btu)	Sensible Heat Available (Btu)	Total Heat Available (Btu)
47	4.32E+05	1.20E+02	2.07E+08	2.98E+10	1.22E+09	3.11E+10
48	6.00E+05	1.67E+02	1.96E+08	3.93E+10	1.22E+09	4.05E+10
49	8.00E+05	2.22E+02	1.87E+08	4.99E+10	1.22E+09	5.11E+10
50	8.64E+05	2.40E+02	1.85E+08	5.32E+10	1.22E+09	5.44E+10
51	1.00E+06	2.78E+02	1.81E+08	6.01E+10	1.22E+09	6.14E+10
52	1.50E+06	4.17E+02	1.72E+08	8.46E+10	1.22E+09	8.59E+10
53	1.73E+06	4.81E+02	1.68E+08	9.55E+10	1.22E+09	9.67E+10
54	2.00E+06	5.56E+02	1.65E+08	1.08E+11	1.22E+09	1.09E+11
55	2.59E+06	7.19E+02	1.60E+08	1.35E+11	1.22E+09	1.36E+11
56	3.46E+06	9.61E+02	1.55E+08	1.73E+11	1.22E+09	1.74E+11
57	4.00E+06	1.11E+03	1.53E+08	1.96E+11	1.22E+09	1.97E+11
58	4.32E+06	1.20E+03	1.52E+08	2.09E+11	1.22E+09	2.11E+11
59	6.00E+06	1.67E+03	1.47E+08	2.79E+11	1.22E+09	2.80E+11
60	8.00E+06	2.22E+03	1.43E+08	3.60E+11	1.22E+09	3.61E+11
61	1.00E+07	2.78E+03	1.41E+08	4.38E+11	1.22E+09	4.40E+11
62	1.50E+07	4.17E+03	1.36E+08	6.30E+11	1.22E+09	6.32E+11
63	2.00E+07	5.56E+03	1.33E+08	8.18E+11	1.22E+09	8.19E+11
64	4.00E+07	1.11E+04	1.28E+08	1.54E+12	1.22E+09	1.54E+12
65	6.00E+07	1.67E+04	1.26E+08	2.25E+12	1.22E+09	2.25E+12
66	8.00E+07	2.22E+04	1.24E+08	2.94E+12	1.22E+09	2.94E+12
67	1.00E+08	2.78E+04	1.23E+08	3.63E+12	1.22E+09	3.63E+12
68	1.50E+08	4.17E+04	1.22E+08	5.33E+12	1.22E+09	5.33E+12
69	2.00E+08	5.56E+04	1.21E+08	7.01E+12	1.22E+09	7.01E+12
70	4.00E+08	1.11E+05	1.20E+08	1.37E+13	1.22E+09	1.37E+13
71	6.00E+08	1.67E+05	1.20E+08	2.04E+13	1.22E+09	2.04E+13
72	8.00E+08	2.22E+05	1.20E+08	2.71E+13	1.22E+09	2.71E+13
73	1.00E+09	2.78E+05	1.20E+08	3.38E+13		

Excel Formulas for Table 7.2 Plant Temperature Rise

Interpolation - 1

```
Function sinterp(XSHEET, YSHEET, X RANGE, Y RANGE, XYLEN, X)
```

```
    Set XARRAY = Worksheets(XSHEET).Range(X RANGE)
```

```
    Set YARRAY = Worksheets(YSHEET).Range(Y RANGE)
```

```
    ' Check to ensure that the x value is within the data range.
```

```
    If X < XARRAY(0) Or X > XARRAY(XYLEN) Then
```

```
        sinterp = "x value out of range"
```

```
    End If
```

```
    ' The following code finds the bounding x values.
```

```
        i = 0
```

```
        Found = False
```

```
        If X = XARRAY(XYLEN) Then
```

```
            xrow = XYLEN - 1
```

```
            Found = True
```

```
        End If
```

```
        Do Until Found = True
```

```
            If X >= XARRAY(i) And X < XARRAY(i + 1) Then
```

```
                xrow = i
```

```
                Found = True
```

```
            End If
```

```
            i = i + 1
```

```
        Loop
```

```
    ' The following expression finds the ratio of the x value inputs
```

```
    ' to the bounding values from the data array.
```

```
        xratio = (X - XARRAY(xrow)) / (XARRAY(xrow + 1) - XARRAY(xrow))
```

```
    ' The following expression interpolates the y value data based on the
```

```
    ' x value input.
```

```
        sinterp = YARRAY(xrow) + xratio * (YARRAY(xrow + 1) - YARRAY(xrow))
```

```
End Function
```

SINTERP2.XLA

Equations for UHS Heat Load Plot

1	A	B	C	D	E	F
1	0		$=((F1+F2)*(E2-E1)+(F2+F3)*(E3-E2)+(F3+F4)*(E4-E3)+(F4+F5)*(E5-E4)+(F5+F6)*(E6-E5)+(F6+F7)*(E7-E6)+(F7+F8)*(E8-E7)+(F8+F9)*(E9-E8)+(F8+F9)*(E9-E8))/2$		0	24500
2	1	=B1+3		=C2/3	0.0000277777777778	24300
3	1	=B2+3	$=(F9+F10)^3/2$	=C3/3	0.00027777777778	8560
4	1	=B3+3	$=(F10+F11)*(E11-E10)+(F11+F12)*(E12-E11))/2$	=C4/3	0.000555555555556	4080
5	1	=B4+3	$=(F12+F13)^3/2$	=C5/3	0.00277777777778	1600
6	1	=B5+3	$=(F13+F14)^3/2$	=C6/3	0.027777777778	1150
7	1	=B6+3	$=(F14+F15)^3/2$	=C7/3	0.2777777778	833
8	1	=B7+3	$=(F15+F16)^3/2$	=C8/3	2.777777778	583
9	1	=B8+3	$=(F16+F17)^3/2$	=C9/3	3	$=F8-(F8-F10)*(E9-E8)/(E10-E8)$
10	2	=B9+3	$=(F17+F18)^3/2$	=C10/3	6	568
11	2	=B10+3	$=(F18+F19)*(E19-E18)+(F19+F20)*(E20-E19))/2$	=C11/3	6.01	365
12	2	=B11+3	$=(F20+F21)^3/2$	=C12/3	9	$=F\$11-(F\$11-F\$19)*(E12-E\$11)/(E\$19-E\$11)$
13	2	=B12+3	$=(F21+F22)^3/2$	=C13/3	=E12+3	$=F\$11-(F\$11-F\$19)*(E13-E\$11)/(E\$19-E\$11)$
14	2	=B13+3	$=(F22+F23)^3/2$	=C14/3	=E13+3	$=F\$11-(F\$11-F\$19)*(E14-E\$11)/(E\$19-E\$11)$
15	2	=B14+3	$=(F23+F24)^3/2$	=C15/3	=E14+3	$=F\$11-(F\$11-F\$19)*(E15-E\$11)/(E\$19-E\$11)$
16	2	=B15+3	$=(F24+F25)^3/2$	=C16/3	=E15+3	$=F\$11-(F\$11-F\$19)*(E16-E\$11)/(E\$19-E\$11)$
17	2	=B16+3	$=(F25+F26)^3/2$	=C17/3	=E16+3	$=F\$11-(F\$11-F\$19)*(E17-E\$11)/(E\$19-E\$11)$
18	3	=B17+3	$=(F26+F27)^3/2$	=C18/3	=E17+3	$=F\$11-(F\$11-F\$19)*(E18-E\$11)/(E\$19-E\$11)$
19	3	=B18+3	$=(F27+F28)^3/2$	=C19/3	27.77777778	264
20	3	=B19+3	$=(F28+F29)*(E29-E28)+(F29+F30)*(E30-E29))/2$	=C20/3	=E18+3	$=F\$19-(F\$19-F\$29)*(E20-E\$19)/(E\$29-E\$19)$
21	3	=B20+3	$=(F30+F31)^3/2$	=C21/3	=E20+3	$=F\$19-(F\$19-F\$29)*(E21-E\$19)/(E\$29-E\$19)$
22	3	=B21+3	$=(F31+F32)^3/2$	=C22/3	=E21+3	$=F\$19-(F\$19-F\$29)*(E22-E\$19)/(E\$29-E\$19)$
23	3	=B22+3	$=(F32+F33)^3/2$	=C23/3	=E22+3	$=F\$19-(F\$19-F\$29)*(E23-E\$19)/(E\$29-E\$19)$
24	3	=B23+3	$=(F33+F34)^3/2$	=C24/3	=E23+3	$=F\$19-(F\$19-F\$29)*(E24-E\$19)/(E\$29-E\$19)$
25	3	=B24+3	$=(F34+F35)^3/2$	=C25/3	=E24+3	$=F\$19-(F\$19-F\$29)*(E25-E\$19)/(E\$29-E\$19)$
26	4	=B25+3	$=(F35+F36)^3/2$	=C26/3	=E25+3	$=F\$19-(F\$19-F\$29)*(E26-E\$19)/(E\$29-E\$19)$
27	4	=B26+3	$=(F36+F37)^3/2$	=C27/3	=E26+3	$=F\$19-(F\$19-F\$29)*(E27-E\$19)/(E\$29-E\$19)$
28	4	=B27+3	$=(F37+F38)^3/2$	=C28/3	=E27+3	$=F\$19-(F\$19-F\$29)*(E28-E\$19)/(E\$29-E\$19)$
29	4	=B28+3	$=(F38+F39)^3/2$	=C29/3	55.555555556	236
30	4	=B29+3	$=(F39+F40)^3/2$	=C30/3	=E28+3	$=F\$29-(F\$29-F\$67)*(E30-E\$29)/(E\$67-E\$29)$
31	4	=B30+3	$=(F40+F41)^3/2$	=C31/3	=E30+3	$=F\$29-(F\$29-F\$67)*(E31-E\$29)/(E\$67-E\$29)$
32	4	=B31+3	$=(F41+F42)^3/2$	=C32/3	=E31+3	$=F\$29-(F\$29-F\$67)*(E32-E\$29)/(E\$67-E\$29)$
33	4	=B32+3	$=(F42+F43)^3/2$	=C33/3	=E32+3	$=F\$29-(F\$29-F\$67)*(E33-E\$29)/(E\$67-E\$29)$
34	5	=B33+3	$=(F43+F44)^3/2$	=C34/3	=E33+3	$=F\$29-(F\$29-F\$67)*(E34-E\$29)/(E\$67-E\$29)$
35	5	=B34+3	$=(F44+F45)^3/2$	=C35/3	=E34+3	$=F\$29-(F\$29-F\$67)*(E35-E\$29)/(E\$67-E\$29)$
36	5	=B35+3	$=(F45+F46)^3/2$	=C36/3	=E35+3	$=F\$29-(F\$29-F\$67)*(E36-E\$29)/(E\$67-E\$29)$
37	5	=B36+3	$=(F46+F47)^3/2$	=C37/3	=E36+3	$=F\$29-(F\$29-F\$67)*(E37-E\$29)/(E\$67-E\$29)$
38	5	=B37+3	$=(F47+F48)^3/2$	=C38/3	=E37+3	$=F\$29-(F\$29-F\$67)*(E38-E\$29)/(E\$67-E\$29)$
39	5	=B38+3	$=(F48+F49)^3/2$	=C39/3	=E38+3	$=F\$29-(F\$29-F\$67)*(E39-E\$29)/(E\$67-E\$29)$
40	5	=B39+3	$=(F49+F50)^3/2$	=C40/3	=E39+3	$=F\$29-(F\$29-F\$67)*(E40-E\$29)/(E\$67-E\$29)$
41	5	=B40+3	$=(F50+F51)^3/2$	=C41/3	=E40+3	$=F\$29-(F\$29-F\$67)*(E41-E\$29)/(E\$67-E\$29)$
42	6	=B41+3	$=(F51+F52)^3/2$	=C42/3	=E41+3	$=F\$29-(F\$29-F\$67)*(E42-E\$29)/(E\$67-E\$29)$
43	6	=B42+3	$=(F52+F53)^3/2$	=C43/3	=E42+3	$=F\$29-(F\$29-F\$67)*(E43-E\$29)/(E\$67-E\$29)$
44	6	=B43+3	$=(F53+F54)^3/2$	=C44/3	=E43+3	$=F\$29-(F\$29-F\$67)*(E44-E\$29)/(E\$67-E\$29)$
45	6	=B44+3	$=(F54+F55)^3/2$	=C45/3	=E44+3	$=F\$29-(F\$29-F\$67)*(E45-E\$29)/(E\$67-E\$29)$
46	6	=B45+3	$=(F55+F56)^3/2$	=C46/3	=E45+3	$=F\$29-(F\$29-F\$67)*(E46-E\$29)/(E\$67-E\$29)$
47	6	=B46+3	$=(F56+F57)^3/2$	=C47/3	=E46+3	$=F\$29-(F\$29-F\$67)*(E47-E\$29)/(E\$67-E\$29)$
48	6	=B47+3	$=(F57+F58)^3/2$	=C48/3	=E47+3	$=F\$29-(F\$29-F\$67)*(E48-E\$29)/(E\$67-E\$29)$
49	6	=B48+3	$=(F58+F59)^3/2$	=C49/3	=E48+3	$=F\$29-(F\$29-F\$67)*(E49-E\$29)/(E\$67-E\$29)$
50	7	=B49+3	$=(F59+F60)^3/2$	=C50/3	=E49+3	$=F\$29-(F\$29-F\$67)*(E50-E\$29)/(E\$67-E\$29)$
51	7	=B50+3	$=(F60+F61)^3/2$	=C51/3	=E50+3	$=F\$29-(F\$29-F\$67)*(E51-E\$29)/(E\$67-E\$29)$
52	7	=B51+3	$=(F61+F62)^3/2$	=C52/3	=E51+3	$=F\$29-(F\$29-F\$67)*(E52-E\$29)/(E\$67-E\$29)$
53	7	=B52+3	$=(F62+F63)^3/2$	=C53/3	=E52+3	$=F\$29-(F\$29-F\$67)*(E53-E\$29)/(E\$67-E\$29)$
54	7	=B53+3	$=(F63+F64)^3/2$	=C54/3	=E53+3	$=F\$29-(F\$29-F\$67)*(E54-E\$29)/(E\$67-E\$29)$
55	7	=B54+3	$=(F64+F65)^3/2$	=C55/3	=E54+3	$=F\$29-(F\$29-F\$67)*(E55-E\$29)/(E\$67-E\$29)$
56	7	=B55+3	$=(F65+F66)^3/2$	=C56/3	=E55+3	$=F\$29-(F\$29-F\$67)*(E56-E\$29)/(E\$67-E\$29)$
57	7	=B56+3	$=(F66+F67)*(E67-E66)+(F67+F68)*(E68-E67))/2$	=C57/3	=E56+3	$=F\$29-(F\$29-F\$67)*(E57-E\$29)/(E\$67-E\$29)$
58	8	=B57+3	$=(F68+F69)^3/2$	=C58/3	=E57+3	$=F\$29-(F\$29-F\$67)*(E58-E\$29)/(E\$67-E\$29)$
59	8	=B58+3	$=(F69+F70)^3/2$	=C59/3	=E58+3	$=F\$29-(F\$29-F\$67)*(E59-E\$29)/(E\$67-E\$29)$
60	8	=B59+3	$=(F70+F71)^3/2$	=C60/3	=E59+3	$=F\$29-(F\$29-F\$67)*(E60-E\$29)/(E\$67-E\$29)$
61	8	=B60+3	$=(F71+F72)^3/2$	=C61/3	=E60+3	$=F\$29-(F\$29-F\$67)*(E61-E\$29)/(E\$67-E\$29)$
62	8	=B61+3	$=(F72+F73)^3/2$	=C62/3	=E61+3	$=F\$29-(F\$29-F\$67)*(E62-E\$29)/(E\$67-E\$29)$
63	8	=B62+3	$=(F73+F74)^3/2$	=C63/3	=E62+3	$=F\$29-(F\$29-F\$67)*(E63-E\$29)/(E\$67-E\$29)$
64	8	=B63+3	$=(F74+F75)^3/2$	=C64/3	=E63+3	$=F\$29-(F\$29-F\$67)*(E64-E\$29)/(E\$67-E\$29)$
65	8	=B64+3	$=(F75+F76)^3/2$	=C65/3	=E64+3	$=F\$29-(F\$29-F\$67)*(E65-E\$29)/(E\$67-E\$29)$
66	9	=B65+3	$=(F76+F77)^3/2$	=C66/3	=E65+3	$=F\$29-(F\$29-F\$67)*(E66-E\$29)/(E\$67-E\$29)$
67	9	=B66+3	$=(F77+F78)^3/2$	=C67/3	166.6666667	196
68	9	=B67+3	$=(F78+F79)^3/2$	=C68/3	=E66+3	$=F\$67-(F\$67-F\$105)*(E68-E\$67)/(E\$105-E\$67)$
69	9	=B68+3	$=(F79+F80)^3/2$	=C69/3	=E68+3	$=F\$67-(F\$67-F\$105)*(E69-E\$67)/(E\$105-E\$67)$
70	9	=B69+3	$=(F80+F81)^3/2$	=C70/3	=E69+3	$=F\$67-(F\$67-F\$105)*(E70-E\$67)/(E\$105-E\$67)$
71	9	=B70+3	$=(F81+F82)^3/2$	=C71/3	=E70+3	$=F\$67-(F\$67-F\$105)*(E71-E\$67)/(E\$105-E\$67)$
72	9	=B71+3	$=(F82+F83)^3/2$	=C72/3	=E71+3	$=F\$67-(F\$67-F\$105)*(E72-E\$67)/(E\$105-E\$67)$
73	9	=B72+3	$=(F83+F84)^3/2$	=C73/3	=E72+3	$=F\$67-(F\$67-F\$105)*(E73-E\$67)/(E\$105-E\$67)$
74	10	=B73+3	$=(F84+F85)^3/2$	=C74/3	=E73+3	$=F\$67-(F\$67-F\$105)*(E74-E\$67)/(E\$105-E\$67)$
75	10	=B74+3	$=(F85+F86)^3/2$	=C75/3	=E74+3	$=F\$67-(F\$67-F\$105)*(E75-E\$67)/(E\$105-E\$67)$
76	10	=B75+3	$=(F86+F87)^3/2$	=C76/3	=E75+3	$=F\$67-(F\$67-F\$105)*(E76-E\$67)/(E\$105-E\$67)$
77	10	=B76+3	$=(F87+F88)^3/2$	=C77/3	=E76+3	$=F\$67-(F\$67-F\$105)*(E77-E\$67)/(E\$105-E\$67)$

Equations for UHS Heat Load Plot

	A	B	C	D	E	F
78	10	=B77+3	=(F88+F89)*3/2	=C78/3	=E77+3	=F\$67-(F\$67-F\$105)*(E78-E\$67)/(E\$105-E\$67)
79	10	=B78+3	=(F89+F90)*3/2	=C79/3	=E78+3	=F\$67-(F\$67-F\$105)*(E79-E\$67)/(E\$105-E\$67)
80	10	=B79+3	=(F90+F91)*3/2	=C80/3	=E79+3	=F\$67-(F\$67-F\$105)*(E80-E\$67)/(E\$105-E\$67)
81	10	=B80+3	=(F91+F92)*3/2	=C81/3	=E80+3	=F\$67-(F\$67-F\$105)*(E81-E\$67)/(E\$105-E\$67)
82	11	=B81+3	=(F92+F93)*3/2	=C82/3	=E81+3	=F\$67-(F\$67-F\$105)*(E82-E\$67)/(E\$105-E\$67)
83	11	=B82+3	=(F93+F94)*3/2	=C83/3	=E82+3	=F\$67-(F\$67-F\$105)*(E83-E\$67)/(E\$105-E\$67)
84	11	=B83+3	=(F94+F95)*3/2	=C84/3	=E83+3	=F\$67-(F\$67-F\$105)*(E84-E\$67)/(E\$105-E\$67)
85	11	=B84+3	=(F95+F96)*3/2	=C85/3	=E84+3	=F\$67-(F\$67-F\$105)*(E85-E\$67)/(E\$105-E\$67)
86	11	=B85+3	=(F96+F97)*3/2	=C86/3	=E85+3	=F\$67-(F\$67-F\$105)*(E86-E\$67)/(E\$105-E\$67)
87	11	=B86+3	=(F97+F98)*3/2	=C87/3	=E86+3	=F\$67-(F\$67-F\$105)*(E87-E\$67)/(E\$105-E\$67)
88	11	=B87+3	=(F98+F99)*3/2	=C88/3	=E87+3	=F\$67-(F\$67-F\$105)*(E88-E\$67)/(E\$105-E\$67)
89	11	=B88+3	=(F99+F100)*3/2	=C89/3	=E88+3	=F\$67-(F\$67-F\$105)*(E89-E\$67)/(E\$105-E\$67)
90	12	=B89+3	=(F100+F101)*3/2	=C90/3	=E89+3	=F\$67-(F\$67-F\$105)*(E90-E\$67)/(E\$105-E\$67)
91	12	=B90+3	=(F101+F102)*3/2	=C91/3	=E90+3	=F\$67-(F\$67-F\$105)*(E91-E\$67)/(E\$105-E\$67)
92	12	=B91+3	=(F102+F103)*3/2	=C92/3	=E91+3	=F\$67-(F\$67-F\$105)*(E92-E\$67)/(E\$105-E\$67)
93	12	=B92+3	=(F103+F104)*3/2	=C93/3	=E92+3	=F\$67-(F\$67-F\$105)*(E93-E\$67)/(E\$105-E\$67)
94	12	=B93+3	=(F104+F105)*(E105-E104)+(F105+F106)*(E106-E105)/2	=C94/3	=E93+3	=F\$67-(F\$67-F\$105)*(E94-E\$67)/(E\$105-E\$67)
95	12	=B94+3	=(F106+F107)*3/2	=C95/3	=E94+3	=F\$67-(F\$67-F\$105)*(E95-E\$67)/(E\$105-E\$67)
96	12	=B95+3	=(F107+F108)*3/2	=C96/3	=E95+3	=F\$67-(F\$67-F\$105)*(E96-E\$67)/(E\$105-E\$67)
97	12	=B96+3	=(F108+F109)*3/2	=C97/3	=E96+3	=F\$67-(F\$67-F\$105)*(E97-E\$67)/(E\$105-E\$67)
98	13	=B97+3	=(F109+F110)*3/2	=C98/3	=E97+3	=F\$67-(F\$67-F\$105)*(E98-E\$67)/(E\$105-E\$67)
99	13	=B98+3	=(F110+F111)*3/2	=C99/3	=E98+3	=F\$67-(F\$67-F\$105)*(E99-E\$67)/(E\$105-E\$67)
100	13	=B99+3	=(F111+F112)*3/2	=C100/3	=E99+3	=F\$67-(F\$67-F\$105)*(E100-E\$67)/(E\$105-E\$67)
101	13	=B100+3	=(F112+F113)*3/2	=C101/3	=E100+3	=F\$67-(F\$67-F\$105)*(E101-E\$67)/(E\$105-E\$67)
102	13	=B101+3	=(F113+F114)*3/2	=C102/3	=E101+3	=F\$67-(F\$67-F\$105)*(E102-E\$67)/(E\$105-E\$67)
103	13	=B102+3	=(F114+F115)*3/2	=C103/3	=E102+3	=F\$67-(F\$67-F\$105)*(E103-E\$67)/(E\$105-E\$67)
104	13	=B103+3	=(F115+F116)*3/2	=C104/3	=E103+3	=F\$67-(F\$67-F\$105)*(E104-E\$67)/(E\$105-E\$67)
105	14	=B104+3	=(F116+F117)*3/2	=C105/3	277.77777778	181
106	14	=B105+3	=(F117+F118)*3/2	=C106/3	=E104+3	=F\$105-(F\$105-F\$199)*(E106-E\$105)/(E\$199-E\$105)
107	14	=B106+3	=(F118+F119)*3/2	=C107/3	=E106+3	=F\$105-(F\$105-F\$199)*(E107-E\$105)/(E\$199-E\$105)
108	14	=B107+3	=(F119+F120)*3/2	=C108/3	=E107+3	=F\$105-(F\$105-F\$199)*(E108-E\$105)/(E\$199-E\$105)
109	14	=B108+3	=(F120+F121)*3/2	=C109/3	=E108+3	=F\$105-(F\$105-F\$199)*(E109-E\$105)/(E\$199-E\$105)
110	14	=B109+3	=(F121+F122)*3/2	=C110/3	=E109+3	=F\$105-(F\$105-F\$199)*(E110-E\$105)/(E\$199-E\$105)
111	14	=B110+3	=(F122+F123)*3/2	=C111/3	=E110+3	=F\$105-(F\$105-F\$199)*(E111-E\$105)/(E\$199-E\$105)
112	14	=B111+3	=(F123+F124)*3/2	=C112/3	=E111+3	=F\$105-(F\$105-F\$199)*(E112-E\$105)/(E\$199-E\$105)
113	14	=B112+3	=(F124+F125)*3/2	=C113/3	=E112+3	=F\$105-(F\$105-F\$199)*(E113-E\$105)/(E\$199-E\$105)
114	15	=B113+3	=(F125+F126)*3/2	=C114/3	=E113+3	=F\$105-(F\$105-F\$199)*(E114-E\$105)/(E\$199-E\$105)
115	15	=B114+3	=(F126+F127)*3/2	=C115/3	=E114+3	=F\$105-(F\$105-F\$199)*(E115-E\$105)/(E\$199-E\$105)
116	15	=B115+3	=(F127+F128)*3/2	=C116/3	=E115+3	=F\$105-(F\$105-F\$199)*(E116-E\$105)/(E\$199-E\$105)
117	15	=B116+3	=(F128+F129)*3/2	=C117/3	=E116+3	=F\$105-(F\$105-F\$199)*(E117-E\$105)/(E\$199-E\$105)
118	15	=B117+3	=(F129+F130)*3/2	=C118/3	=E117+3	=F\$105-(F\$105-F\$199)*(E118-E\$105)/(E\$199-E\$105)
119	15	=B118+3	=(F130+F131)*3/2	=C119/3	=E118+3	=F\$105-(F\$105-F\$199)*(E119-E\$105)/(E\$199-E\$105)
120	15	=B119+3	=(F131+F132)*3/2	=C120/3	=E119+3	=F\$105-(F\$105-F\$199)*(E120-E\$105)/(E\$199-E\$105)
121	15	=B120+3	=(F132+F133)*3/2	=C121/3	=E120+3	=F\$105-(F\$105-F\$199)*(E121-E\$105)/(E\$199-E\$105)
122	16	=B121+3	=(F133+F134)*3/2	=C122/3	=E121+3	=F\$105-(F\$105-F\$199)*(E122-E\$105)/(E\$199-E\$105)
123	16	=B122+3	=(F134+F135)*3/2	=C123/3	=E122+3	=F\$105-(F\$105-F\$199)*(E123-E\$105)/(E\$199-E\$105)
124	16	=B123+3	=(F135+F136)*3/2	=C124/3	=E123+3	=F\$105-(F\$105-F\$199)*(E124-E\$105)/(E\$199-E\$105)
125	16	=B124+3	=(F136+F137)*3/2	=C125/3	=E124+3	=F\$105-(F\$105-F\$199)*(E125-E\$105)/(E\$199-E\$105)
126	16	=B125+3	=(F137+F138)*3/2	=C126/3	=E125+3	=F\$105-(F\$105-F\$199)*(E126-E\$105)/(E\$199-E\$105)
127	16	=B126+3	=(F138+F139)*3/2	=C127/3	=E126+3	=F\$105-(F\$105-F\$199)*(E127-E\$105)/(E\$199-E\$105)
128	16	=B127+3	=(F139+F140)*3/2	=C128/3	=E127+3	=F\$105-(F\$105-F\$199)*(E128-E\$105)/(E\$199-E\$105)
129	16	=B128+3	=(F140+F141)*3/2	=C129/3	=E128+3	=F\$105-(F\$105-F\$199)*(E129-E\$105)/(E\$199-E\$105)
130	17	=B129+3	=(F141+F142)*3/2	=C130/3	=E129+3	=F\$105-(F\$105-F\$199)*(E130-E\$105)/(E\$199-E\$105)
131	17	=B130+3	=(F142+F143)*3/2	=C131/3	=E130+3	=F\$105-(F\$105-F\$199)*(E131-E\$105)/(E\$199-E\$105)
132	17	=B131+3	=(F143+F144)*3/2	=C132/3	=E131+3	=F\$105-(F\$105-F\$199)*(E132-E\$105)/(E\$199-E\$105)
133	17	=B132+3	=(F144+F145)*3/2	=C133/3	=E132+3	=F\$105-(F\$105-F\$199)*(E133-E\$105)/(E\$199-E\$105)
134	17	=B133+3	=(F145+F146)*3/2	=C134/3	=E133+3	=F\$105-(F\$105-F\$199)*(E134-E\$105)/(E\$199-E\$105)
135	17	=B134+3	=(F146+F147)*3/2	=C135/3	=E134+3	=F\$105-(F\$105-F\$199)*(E135-E\$105)/(E\$199-E\$105)
136	17	=B135+3	=(F147+F148)*3/2	=C136/3	=E135+3	=F\$105-(F\$105-F\$199)*(E136-E\$105)/(E\$199-E\$105)
137	17	=B136+3	=(F148+F149)*3/2	=C137/3	=E136+3	=F\$105-(F\$105-F\$199)*(E137-E\$105)/(E\$199-E\$105)
138	18	=B137+3	=(F149+F150)*3/2	=C138/3	=E137+3	=F\$105-(F\$105-F\$199)*(E138-E\$105)/(E\$199-E\$105)
139	18	=B138+3	=(F150+F151)*3/2	=C139/3	=E138+3	=F\$105-(F\$105-F\$199)*(E139-E\$105)/(E\$199-E\$105)
140	18	=B139+3	=(F151+F152)*3/2	=C140/3	=E139+3	=F\$105-(F\$105-F\$199)*(E140-E\$105)/(E\$199-E\$105)
141	18	=B140+3	=(F152+F153)*3/2	=C141/3	=E140+3	=F\$105-(F\$105-F\$199)*(E141-E\$105)/(E\$199-E\$105)
142	18	=B141+3	=(F153+F154)*3/2	=C142/3	=E141+3	=F\$105-(F\$105-F\$199)*(E142-E\$105)/(E\$199-E\$105)
143	18	=B142+3	=(F154+F155)*3/2	=C143/3	=E142+3	=F\$105-(F\$105-F\$199)*(E143-E\$105)/(E\$199-E\$105)
144	18	=B143+3	=(F155+F156)*3/2	=C144/3	=E143+3	=F\$105-(F\$105-F\$199)*(E144-E\$105)/(E\$199-E\$105)
145	18	=B144+3	=(F156+F157)*3/2	=C145/3	=E144+3	=F\$105-(F\$105-F\$199)*(E145-E\$105)/(E\$199-E\$105)
146	19	=B145+3	=(F157+F158)*3/2	=C146/3	=E145+3	=F\$105-(F\$105-F\$199)*(E146-E\$105)/(E\$199-E\$105)
147	19	=B146+3	=(F158+F159)*3/2	=C147/3	=E146+3	=F\$105-(F\$105-F\$199)*(E147-E\$105)/(E\$199-E\$105)
148	19	=B147+3	=(F159+F160)*3/2	=C148/3	=E147+3	=F\$105-(F\$105-F\$199)*(E148-E\$105)/(E\$199-E\$105)
149	19	=B148+3	=(F160+F161)*3/2	=C149/3	=E148+3	=F\$105-(F\$105-F\$199)*(E149-E\$105)/(E\$199-E\$105)
150	19	=B149+3	=(F161+F162)*3/2	=C150/3	=E149+3	=F\$105-(F\$105-F\$199)*(E150-E\$105)/(E\$199-E\$105)
151	19	=B150+3	=(F162+F163)*3/2	=C151/3	=E150+3	=F\$105-(F\$105-F\$199)*(E151-E\$105)/(E\$199-E\$105)
152	19	=B151+3	=(F163+F164)*3/2	=C152/3	=E151+3	=F\$105-(F\$105-F\$199)*(E152-E\$105)/(E\$199-E\$105)
153	19	=B152+3	=(F164+F165)*3/2	=C153/3	=E152+3	=F\$105-(F\$105-F\$199)*(E153-E\$105)/(E\$199-E\$105)
154	20	=B153+3	=(F165+F166)*3/2	=C154/3	=E153+3	=F\$105-(F\$105-F\$199)*(E154-E\$105)/(E\$199-E\$105)
155	20	=B154+3	=(F166+F167)*3/2	=C155/3	=E154+3	=F\$105-(F\$105-F\$199)*(E155-E\$105)/(E\$199-E\$105)
156	20	=B155+3	=(F167+F168)*3/2	=C156/3	=E155+3	=F\$105-(F\$105-F\$199)*(E156-E\$105)/(E\$199-E\$105)

Equations for UHS Heat Load Plot

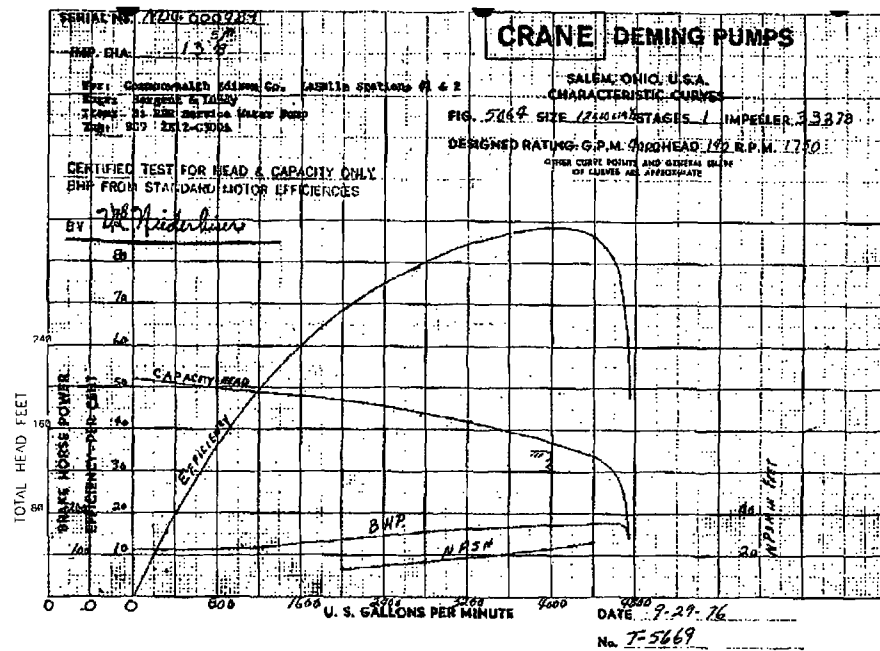
	A	B	C	D	E	F
157	20	=B156+3	=(F168+F169)*3/2	=C157/3	=E156+3	=F\$105-(F\$105-F\$199)*(E157-E\$105)/(E\$199-E\$105)
158	20	=B157+3	=(F169+F170)*3/2	=C158/3	=E157+3	=F\$105-(F\$105-F\$199)*(E158-E\$105)/(E\$199-E\$105)
159	20	=B158+3	=(F170+F171)*3/2	=C159/3	=E158+3	=F\$105-(F\$105-F\$199)*(E159-E\$105)/(E\$199-E\$105)
160	20	=B159+3	=(F171+F172)*3/2	=C160/3	=E159+3	=F\$105-(F\$105-F\$199)*(E160-E\$105)/(E\$199-E\$105)
161	20	=B160+3	=(F172+F173)*3/2	=C161/3	=E160+3	=F\$105-(F\$105-F\$199)*(E161-E\$105)/(E\$199-E\$105)
162	21	=B161+3	=(F173+F174)*3/2	=C162/3	=E161+3	=F\$105-(F\$105-F\$199)*(E162-E\$105)/(E\$199-E\$105)
163	21	=B162+3	=(F174+F175)*3/2	=C163/3	=E162+3	=F\$105-(F\$105-F\$199)*(E163-E\$105)/(E\$199-E\$105)
164	21	=B163+3	=(F175+F176)*3/2	=C164/3	=E163+3	=F\$105-(F\$105-F\$199)*(E164-E\$105)/(E\$199-E\$105)
165	21	=B164+3	=(F176+F177)*3/2	=C165/3	=E164+3	=F\$105-(F\$105-F\$199)*(E165-E\$105)/(E\$199-E\$105)
166	21	=B165+3	=(F177+F178)*3/2	=C166/3	=E165+3	=F\$105-(F\$105-F\$199)*(E166-E\$105)/(E\$199-E\$105)
167	21	=B166+3	=(F178+F179)*3/2	=C167/3	=E166+3	=F\$105-(F\$105-F\$199)*(E167-E\$105)/(E\$199-E\$105)
168	21	=B167+3	=(F179+F180)*3/2	=C168/3	=E167+3	=F\$105-(F\$105-F\$199)*(E168-E\$105)/(E\$199-E\$105)
169	21	=B168+3	=(F180+F181)*3/2	=C169/3	=E168+3	=F\$105-(F\$105-F\$199)*(E169-E\$105)/(E\$199-E\$105)
170	22	=B169+3	=(F181+F182)*3/2	=C170/3	=E169+3	=F\$105-(F\$105-F\$199)*(E170-E\$105)/(E\$199-E\$105)
171	22	=B170+3	=(F182+F183)*3/2	=C171/3	=E170+3	=F\$105-(F\$105-F\$199)*(E171-E\$105)/(E\$199-E\$105)
172	22	=B171+3	=(F183+F184)*3/2	=C172/3	=E171+3	=F\$105-(F\$105-F\$199)*(E172-E\$105)/(E\$199-E\$105)
173	22	=B172+3	=(F184+F185)*3/2	=C173/3	=E172+3	=F\$105-(F\$105-F\$199)*(E173-E\$105)/(E\$199-E\$105)
174	22	=B173+3	=(F185+F186)*3/2	=C174/3	=E173+3	=F\$105-(F\$105-F\$199)*(E174-E\$105)/(E\$199-E\$105)
175	22	=B174+3	=(F186+F187)*3/2	=C175/3	=E174+3	=F\$105-(F\$105-F\$199)*(E175-E\$105)/(E\$199-E\$105)
176	22	=B175+3	=(F187+F188)*3/2	=C176/3	=E175+3	=F\$105-(F\$105-F\$199)*(E176-E\$105)/(E\$199-E\$105)
177	22	=B176+3	=(F188+F189)*3/2	=C177/3	=E176+3	=F\$105-(F\$105-F\$199)*(E177-E\$105)/(E\$199-E\$105)
178	23	=B177+3	=(F189+F190)*3/2	=C178/3	=E177+3	=F\$105-(F\$105-F\$199)*(E178-E\$105)/(E\$199-E\$105)
179	23	=B178+3	=(F190+F191)*3/2	=C179/3	=E178+3	=F\$105-(F\$105-F\$199)*(E179-E\$105)/(E\$199-E\$105)
180	23	=B179+3	=(F191+F192)*3/2	=C180/3	=E179+3	=F\$105-(F\$105-F\$199)*(E180-E\$105)/(E\$199-E\$105)
181	23	=B180+3	=(F192+F193)*3/2	=C181/3	=E180+3	=F\$105-(F\$105-F\$199)*(E181-E\$105)/(E\$199-E\$105)
182	23	=B181+3	=(F193+F194)*3/2	=C182/3	=E181+3	=F\$105-(F\$105-F\$199)*(E182-E\$105)/(E\$199-E\$105)
183	23	=B182+3	=(F194+F195)*3/2	=C183/3	=E182+3	=F\$105-(F\$105-F\$199)*(E183-E\$105)/(E\$199-E\$105)
184	23	=B183+3	=(F195+F196)*3/2	=C184/3	=E183+3	=F\$105-(F\$105-F\$199)*(E184-E\$105)/(E\$199-E\$105)
185	23	=B184+3	=(F196+F197)*3/2	=C185/3	=E184+3	=F\$105-(F\$105-F\$199)*(E185-E\$105)/(E\$199-E\$105)
186	24	=B185+3	=(F197+F198)*3/2	=C186/3	=E185+3	=F\$105-(F\$105-F\$199)*(E186-E\$105)/(E\$199-E\$105)
187	24	=B186+3	=(F198+F199)*(E199-E198)+(F199+F200)*(E200-E199)/2	=C187/3	=E186+3	=F\$105-(F\$105-F\$199)*(E187-E\$105)/(E\$199-E\$105)
188	24	=B187+3	=(F200+F201)*3/2	=C188/3	=E187+3	=F\$105-(F\$105-F\$199)*(E188-E\$105)/(E\$199-E\$105)
189	24	=B188+3	=(F201+F202)*3/2	=C189/3	=E188+3	=F\$105-(F\$105-F\$199)*(E189-E\$105)/(E\$199-E\$105)
190	24	=B189+3	=(F202+F203)*3/2	=C190/3	=E189+3	=F\$105-(F\$105-F\$199)*(E190-E\$105)/(E\$199-E\$105)
191	24	=B190+3	=(F203+F204)*3/2	=C191/3	=E190+3	=F\$105-(F\$105-F\$199)*(E191-E\$105)/(E\$199-E\$105)
192	24	=B191+3	=(F204+F205)*3/2	=C192/3	=E191+3	=F\$105-(F\$105-F\$199)*(E192-E\$105)/(E\$199-E\$105)
193	24	=B192+3	=(F205+F206)*3/2	=C193/3	=E192+3	=F\$105-(F\$105-F\$199)*(E193-E\$105)/(E\$199-E\$105)
194	25	=B193+3	=(F206+F207)*3/2	=C194/3	=E193+3	=F\$105-(F\$105-F\$199)*(E194-E\$105)/(E\$199-E\$105)
195	25	=B194+3	=(F207+F208)*3/2	=C195/3	=E194+3	=F\$105-(F\$105-F\$199)*(E195-E\$105)/(E\$199-E\$105)
196	25	=B195+3	=(F208+F209)*3/2	=C196/3	=E195+3	=F\$105-(F\$105-F\$199)*(E196-E\$105)/(E\$199-E\$105)
197	25	=B196+3	=(F209+F210)*3/2	=C197/3	=E196+3	=F\$105-(F\$105-F\$199)*(E197-E\$105)/(E\$199-E\$105)
198	25	=B197+3	=(F210+F211)*3/2	=C198/3	=E197+3	=F\$105-(F\$105-F\$199)*(E198-E\$105)/(E\$199-E\$105)
199	25	=B198+3	=(F211+F212)*3/2	=C199/3	555.55555556	165
200	25	=B199+3	=(F212+F213)*3/2	=C200/3	=E198+3	=F\$199-(F\$199-F\$304)*(E200-E\$199)/(E\$304-E\$199)
201	25	=B200+3	=(F213+F214)*3/2	=C201/3	=E200+3	=F\$199-(F\$199-F\$304)*(E201-E\$199)/(E\$304-E\$199)
202	26	=B201+3	=(F214+F215)*3/2	=C202/3	=E201+3	=F\$199-(F\$199-F\$304)*(E202-E\$199)/(E\$304-E\$199)
203	26	=B202+3	=(F215+F216)*3/2	=C203/3	=E202+3	=F\$199-(F\$199-F\$304)*(E203-E\$199)/(E\$304-E\$199)
204	26	=B203+3	=(F216+F217)*3/2	=C204/3	=E203+3	=F\$199-(F\$199-F\$304)*(E204-E\$199)/(E\$304-E\$199)
205	26	=B204+3	=(F217+F218)*3/2	=C205/3	=E204+3	=F\$199-(F\$199-F\$304)*(E205-E\$199)/(E\$304-E\$199)
206	26	=B205+3	=(F218+F219)*3/2	=C206/3	=E205+3	=F\$199-(F\$199-F\$304)*(E206-E\$199)/(E\$304-E\$199)
207	26	=B206+3	=(F219+F220)*3/2	=C207/3	=E206+3	=F\$199-(F\$199-F\$304)*(E207-E\$199)/(E\$304-E\$199)
208	26	=B207+3	=(F220+F221)*3/2	=C208/3	=E207+3	=F\$199-(F\$199-F\$304)*(E208-E\$199)/(E\$304-E\$199)
209	26	=B208+3	=(F221+F222)*3/2	=C209/3	=E208+3	=F\$199-(F\$199-F\$304)*(E209-E\$199)/(E\$304-E\$199)
210	27	=B209+3	=(F222+F223)*3/2	=C210/3	=E209+3	=F\$199-(F\$199-F\$304)*(E210-E\$199)/(E\$304-E\$199)
211	27	=B210+3	=(F223+F224)*3/2	=C211/3	=E210+3	=F\$199-(F\$199-F\$304)*(E211-E\$199)/(E\$304-E\$199)
212	27	=B211+3	=(F224+F225)*3/2	=C212/3	=E211+3	=F\$199-(F\$199-F\$304)*(E212-E\$199)/(E\$304-E\$199)
213	27	=B212+3	=(F225+F226)*3/2	=C213/3	=E212+3	=F\$199-(F\$199-F\$304)*(E213-E\$199)/(E\$304-E\$199)
214	27	=B213+3	=(F226+F227)*3/2	=C214/3	=E213+3	=F\$199-(F\$199-F\$304)*(E214-E\$199)/(E\$304-E\$199)
215	27	=B214+3	=(F227+F228)*3/2	=C215/3	=E214+3	=F\$199-(F\$199-F\$304)*(E215-E\$199)/(E\$304-E\$199)
216	27	=B215+3	=(F228+F229)*3/2	=C216/3	=E215+3	=F\$199-(F\$199-F\$304)*(E216-E\$199)/(E\$304-E\$199)
217	27	=B216+3	=(F229+F230)*3/2	=C217/3	=E216+3	=F\$199-(F\$199-F\$304)*(E217-E\$199)/(E\$304-E\$199)
218	28	=B217+3	=(F230+F231)*3/2	=C218/3	=E217+3	=F\$199-(F\$199-F\$304)*(E218-E\$199)/(E\$304-E\$199)
219	28	=B218+3	=(F231+F232)*3/2	=C219/3	=E218+3	=F\$199-(F\$199-F\$304)*(E219-E\$199)/(E\$304-E\$199)
220	28	=B219+3	=(F232+F233)*3/2	=C220/3	=E219+3	=F\$199-(F\$199-F\$304)*(E220-E\$199)/(E\$304-E\$199)
221	28	=B220+3	=(F233+F234)*3/2	=C221/3	=E220+3	=F\$199-(F\$199-F\$304)*(E221-E\$199)/(E\$304-E\$199)
222	28	=B221+3	=(F234+F235)*3/2	=C222/3	=E221+3	=F\$199-(F\$199-F\$304)*(E222-E\$199)/(E\$304-E\$199)
223	28	=B222+3	=(F235+F236)*3/2	=C223/3	=E222+3	=F\$199-(F\$199-F\$304)*(E223-E\$199)/(E\$304-E\$199)
224	28	=B223+3	=(F236+F237)*3/2	=C224/3	=E223+3	=F\$199-(F\$199-F\$304)*(E224-E\$199)/(E\$304-E\$199)
225	28	=B224+3	=(F237+F238)*3/2	=C225/3	=E224+3	=F\$199-(F\$199-F\$304)*(E225-E\$199)/(E\$304-E\$199)
226	29	=B225+3	=(F238+F239)*3/2	=C226/3	=E225+3	=F\$199-(F\$199-F\$304)*(E226-E\$199)/(E\$304-E\$199)
227	29	=B226+3	=(F239+F240)*3/2	=C227/3	=E226+3	=F\$199-(F\$199-F\$304)*(E227-E\$199)/(E\$304-E\$199)
228	29	=B227+3	=(F240+F241)*3/2	=C228/3	=E227+3	=F\$199-(F\$199-F\$304)*(E228-E\$199)/(E\$304-E\$199)
229	29	=B228+3	=(F241+F242)*3/2	=C229/3	=E228+3	=F\$199-(F\$199-F\$304)*(E229-E\$199)/(E\$304-E\$199)
230	29	=B229+3	=(F242+F243)*3/2	=C230/3	=E229+3	=F\$199-(F\$199-F\$304)*(E230-E\$199)/(E\$304-E\$199)
231	29	=B230+3	=(F243+F244)*3/2	=C231/3	=E230+3	=F\$199-(F\$199-F\$304)*(E231-E\$199)/(E\$304-E\$199)
232	29	=B231+3	=(F244+F245)*3/2	=C232/3	=E231+3	=F\$199-(F\$199-F\$304)*(E232-E\$199)/(E\$304-E\$199)
233	29	=B232+3	=(F245+F246)*3/2	=C233/3	=E232+3	=F\$199-(F\$199-F\$304)*(E233-E\$199)/(E\$304-E\$199)
234	30	=B233+3	=(F246+F247)*3/2	=C234/3	=E233+3	=F\$199-(F\$199-F\$304)*(E234-E\$199)/(E\$304-E\$199)
235	30	=B234+3	=(F247+F248)*3/2	=C235/3	=E234+3	=F\$199-(F\$199-F\$304)*(E235-E\$199)/(E\$304-E\$199)

Equations for UHS Heat Load Plot

	A	B	C	D	E	F
236	30	=B235+3	=(F248+F249)*3/2	=C236/3	=E235+3	=F\$199-(F\$199-F\$304)*(E236-E\$199)/(E\$304-E\$199)
237	30	=B236+3	=(F249+F250)*3/2	=C237/3	=E236+3	=F\$199-(F\$199-F\$304)*(E237-E\$199)/(E\$304-E\$199)
238	30	=B237+3	=(F250+F251)*3/2	=C238/3	=E237+3	=F\$199-(F\$199-F\$304)*(E238-E\$199)/(E\$304-E\$199)
239	30	=B238+3	=(F251+F252)*3/2	=C239/3	=E238+3	=F\$199-(F\$199-F\$304)*(E239-E\$199)/(E\$304-E\$199)
240	30	=B239+3	=(F252+F253)*3/2	=C240/3	=E239+3	=F\$199-(F\$199-F\$304)*(E240-E\$199)/(E\$304-E\$199)
241	30	=B240+3	=(F253+F254)*3/2	=C241/3	=E240+3	=F\$199-(F\$199-F\$304)*(E241-E\$199)/(E\$304-E\$199)
242	31	=B241+3	=(F254+F255)*3/2	=C242/3	=E241+3	=F\$199-(F\$199-F\$304)*(E242-E\$199)/(E\$304-E\$199)
243	31	=B242+3	=(F255+F256)*3/2	=C243/3	=E242+3	=F\$199-(F\$199-F\$304)*(E243-E\$199)/(E\$304-E\$199)
244	31	=B243+3	=(F256+F257)*3/2	=C244/3	=E243+3	=F\$199-(F\$199-F\$304)*(E244-E\$199)/(E\$304-E\$199)
245	31	=B244+3	=(F257+F258)*3/2	=C245/3	=E244+3	=F\$199-(F\$199-F\$304)*(E245-E\$199)/(E\$304-E\$199)
246	31	=B245+3	=(F258+F259)*3/2	=C246/3	=E245+3	=F\$199-(F\$199-F\$304)*(E246-E\$199)/(E\$304-E\$199)
247	31	=B246+3	=(F259+F260)*3/2	=C247/3	=E246+3	=F\$199-(F\$199-F\$304)*(E247-E\$199)/(E\$304-E\$199)
248	31	=B247+3	=(F260+F261)*3/2	=C248/3	=E247+3	=F\$199-(F\$199-F\$304)*(E248-E\$199)/(E\$304-E\$199)
249	31	=B248+3	=(F261+F262)*3/2	=C249/3	=E248+3	=F\$199-(F\$199-F\$304)*(E249-E\$199)/(E\$304-E\$199)
250	32	=B249+3	=(F262+F263)*3/2	=C250/3	=E249+3	=F\$199-(F\$199-F\$304)*(E250-E\$199)/(E\$304-E\$199)
251	32	=B250+3	=(F263+F264)*3/2	=C251/3	=E250+3	=F\$199-(F\$199-F\$304)*(E251-E\$199)/(E\$304-E\$199)
252	32	=B251+3	=(F264+F265)*3/2	=C252/3	=E251+3	=F\$199-(F\$199-F\$304)*(E252-E\$199)/(E\$304-E\$199)
253	32	=B252+3	=(F265+F266)*3/2	=C253/3	=E252+3	=F\$199-(F\$199-F\$304)*(E253-E\$199)/(E\$304-E\$199)
254	32	=B253+3	=(F266+F267)*3/2	=C254/3	=E253+3	=F\$199-(F\$199-F\$304)*(E254-E\$199)/(E\$304-E\$199)
255	32	=B254+3	=(F267+F268)*3/2	=C255/3	=E254+3	=F\$199-(F\$199-F\$304)*(E255-E\$199)/(E\$304-E\$199)
256	32	=B255+3	=(F268+F269)*3/2	=C256/3	=E255+3	=F\$199-(F\$199-F\$304)*(E256-E\$199)/(E\$304-E\$199)
257	32	=B256+3	=(F269+F270)*3/2	=C257/3	=E256+3	=F\$199-(F\$199-F\$304)*(E257-E\$199)/(E\$304-E\$199)
258	33	=B257+3	=(F270+F271)*3/2	=C258/3	=E257+3	=F\$199-(F\$199-F\$304)*(E258-E\$199)/(E\$304-E\$199)
259	33	=B258+3	=(F271+F272)*3/2	=C259/3	=E258+3	=F\$199-(F\$199-F\$304)*(E259-E\$199)/(E\$304-E\$199)
260	33	=B259+3	=(F272+F273)*3/2	=C260/3	=E259+3	=F\$199-(F\$199-F\$304)*(E260-E\$199)/(E\$304-E\$199)
261	33	=B260+3	=(F273+F274)*3/2	=C261/3	=E260+3	=F\$199-(F\$199-F\$304)*(E261-E\$199)/(E\$304-E\$199)
262	33	=B261+3	=(F274+F275)*3/2	=C262/3	=E261+3	=F\$199-(F\$199-F\$304)*(E262-E\$199)/(E\$304-E\$199)
263	33	=B262+3	=(F275+F276)*3/2	=C263/3	=E262+3	=F\$199-(F\$199-F\$304)*(E263-E\$199)/(E\$304-E\$199)
264	33	=B263+3	=(F276+F277)*3/2	=C264/3	=E263+3	=F\$199-(F\$199-F\$304)*(E264-E\$199)/(E\$304-E\$199)
265	33	=B264+3	=(F277+F278)*3/2	=C265/3	=E264+3	=F\$199-(F\$199-F\$304)*(E265-E\$199)/(E\$304-E\$199)
266	34	=B265+3	=(F278+F279)*3/2	=C266/3	=E265+3	=F\$199-(F\$199-F\$304)*(E266-E\$199)/(E\$304-E\$199)
267	34	=B266+3	=(F279+F280)*3/2	=C267/3	=E266+3	=F\$199-(F\$199-F\$304)*(E267-E\$199)/(E\$304-E\$199)
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269	34	=B268+3	=(F281+F282)*3/2	=C269/3	=E268+3	=F\$199-(F\$199-F\$304)*(E269-E\$199)/(E\$304-E\$199)
270	34	=B269+3	=(F282+F283)*3/2	=C270/3	=E269+3	=F\$199-(F\$199-F\$304)*(E270-E\$199)/(E\$304-E\$199)
271	34	=B270+3	=(F283+F284)*3/2	=C271/3	=E270+3	=F\$199-(F\$199-F\$304)*(E271-E\$199)/(E\$304-E\$199)
272	34	=B271+3	=(F284+F285)*3/2	=C272/3	=E271+3	=F\$199-(F\$199-F\$304)*(E272-E\$199)/(E\$304-E\$199)
273	34	=B272+3	=(F285+F286)*3/2	=C273/3	=E272+3	=F\$199-(F\$199-F\$304)*(E273-E\$199)/(E\$304-E\$199)
274	35	=B273+3	=(F286+F287)*3/2	=C274/3	=E273+3	=F\$199-(F\$199-F\$304)*(E274-E\$199)/(E\$304-E\$199)
275	35	=B274+3	=(F287+F288)*3/2	=C275/3	=E274+3	=F\$199-(F\$199-F\$304)*(E275-E\$199)/(E\$304-E\$199)
276	35	=B275+3	=(F288+F289)*3/2	=C276/3	=E275+3	=F\$199-(F\$199-F\$304)*(E276-E\$199)/(E\$304-E\$199)
277	35	=B276+3	=(F289+F290)*3/2	=C277/3	=E276+3	=F\$199-(F\$199-F\$304)*(E277-E\$199)/(E\$304-E\$199)
278	35	=B277+3	=(F290+F291)*3/2	=C278/3	=E277+3	=F\$199-(F\$199-F\$304)*(E278-E\$199)/(E\$304-E\$199)
279	35	=B278+3	=(F291+F292)*3/2	=C279/3	=E278+3	=F\$199-(F\$199-F\$304)*(E279-E\$199)/(E\$304-E\$199)
280	35	=B279+3	=(F292+F293)*3/2	=C280/3	=E279+3	=F\$199-(F\$199-F\$304)*(E280-E\$199)/(E\$304-E\$199)
281	35	=B280+3	=(F293+F294)*3/2	=C281/3	=E280+3	=F\$199-(F\$199-F\$304)*(E281-E\$199)/(E\$304-E\$199)
282	36	=B281+3	=(F294+F295)*3/2	=C282/3	=E281+3	=F\$199-(F\$199-F\$304)*(E282-E\$199)/(E\$304-E\$199)
283	36	=B282+3	=(F295+F296)*3/2	=C283/3	=E282+3	=F\$199-(F\$199-F\$304)*(E283-E\$199)/(E\$304-E\$199)
284	36	=B283+3	=(F296+F297)*3/2	=C284/3	=E283+3	=F\$199-(F\$199-F\$304)*(E284-E\$199)/(E\$304-E\$199)
285	36	=B284+3	=(F297+F298)*3/2	=C285/3	=E284+3	=F\$199-(F\$199-F\$304)*(E285-E\$199)/(E\$304-E\$199)
286	36	=B285+3	=(F298+F299)*3/2	=C286/3	=E285+3	=F\$199-(F\$199-F\$304)*(E286-E\$199)/(E\$304-E\$199)
287	36	=B286+3	=(F299+F300)*3/2	=C287/3	=E286+3	=F\$199-(F\$199-F\$304)*(E287-E\$199)/(E\$304-E\$199)
288	36	=B287+3	=(F300+F301)*3/2	=C288/3	=E287+3	=F\$199-(F\$199-F\$304)*(E288-E\$199)/(E\$304-E\$199)
289	36	=B288+3	=(F301+F302)*3/2	=C289/3	=E288+3	=F\$199-(F\$199-F\$304)*(E289-E\$199)/(E\$304-E\$199)
290					=E289+3	=F\$199-(F\$199-F\$304)*(E290-E\$199)/(E\$304-E\$199)
291					=E290+3	=F\$199-(F\$199-F\$304)*(E291-E\$199)/(E\$304-E\$199)
292					=E291+3	=F\$199-(F\$199-F\$304)*(E292-E\$199)/(E\$304-E\$199)
293					=E292+3	=F\$199-(F\$199-F\$304)*(E293-E\$199)/(E\$304-E\$199)
294					=E293+3	=F\$199-(F\$199-F\$304)*(E294-E\$199)/(E\$304-E\$199)
295					=E294+3	=F\$199-(F\$199-F\$304)*(E295-E\$199)/(E\$304-E\$199)
296					=E295+3	=F\$199-(F\$199-F\$304)*(E296-E\$199)/(E\$304-E\$199)
297					=E296+3	=F\$199-(F\$199-F\$304)*(E297-E\$199)/(E\$304-E\$199)
298					=E297+3	=F\$199-(F\$199-F\$304)*(E298-E\$199)/(E\$304-E\$199)
299					=E298+3	=F\$199-(F\$199-F\$304)*(E299-E\$199)/(E\$304-E\$199)
300					=E299+3	=F\$199-(F\$199-F\$304)*(E300-E\$199)/(E\$304-E\$199)
301					=E300+3	=F\$199-(F\$199-F\$304)*(E301-E\$199)/(E\$304-E\$199)
302					=E301+3	=F\$199-(F\$199-F\$304)*(E302-E\$199)/(E\$304-E\$199)
303					=E302+3	=F\$199-(F\$199-F\$304)*(E303-E\$199)/(E\$304-E\$199)
304					1666.666667	147
305					2777.777778	140
306						
307						
308						

Attachment D
Attached References

6995-1

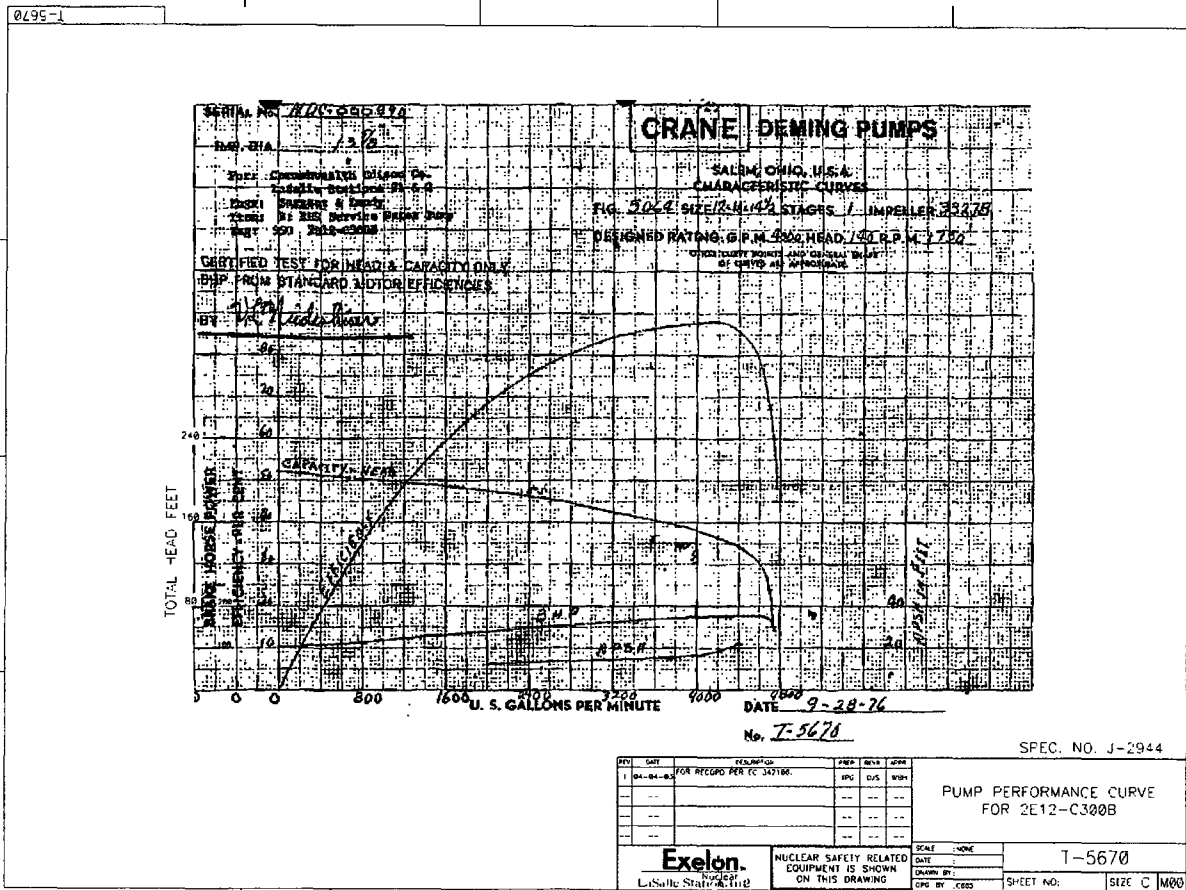


SPEC. NO. J-2944

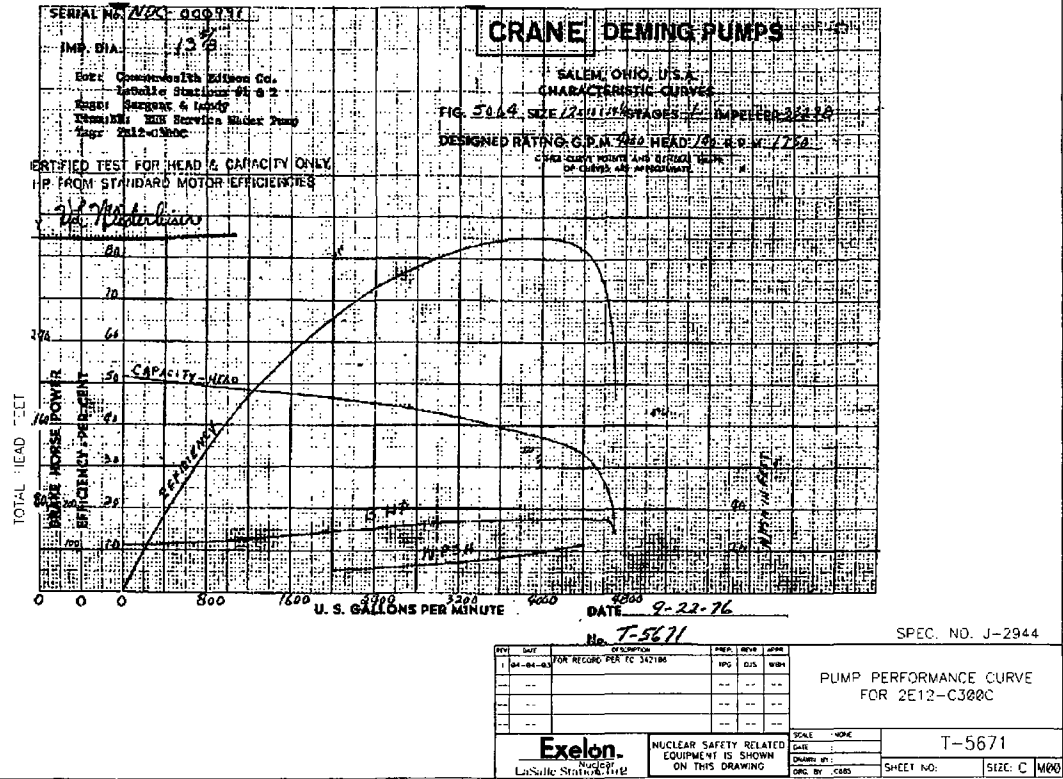
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1	04-04-83	FOR RECORD PER TC 34706	TPG	02/8	0001
2	---	---	---	---	---
3	---	---	---	---	---
4	---	---	---	---	---
5	---	---	---	---	---

Exelon Nuclear LaSalle Station, Ill.		NUCLEAR SAFETY RELATED EQUIPMENT IS SHOWN ON THIS DRAWING	SCALE: NONE DATE: --- DRAWN BY: --- CHKD BY: CESS	1-5669 SHEET NO.: --- SIZE: C (100)
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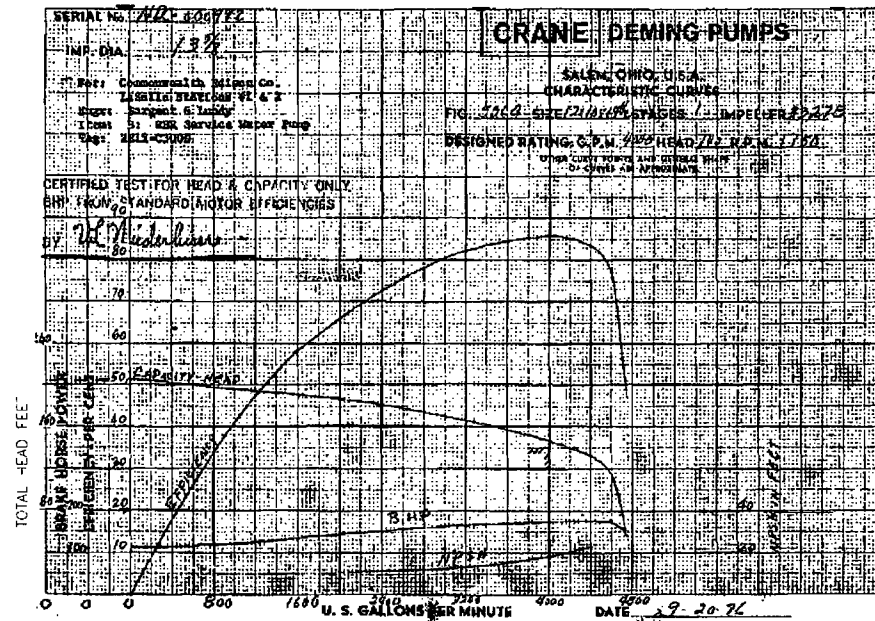
PUMP PERFORMANCE CURVE
FOR 2E12-C300A



1-5671



1-5672

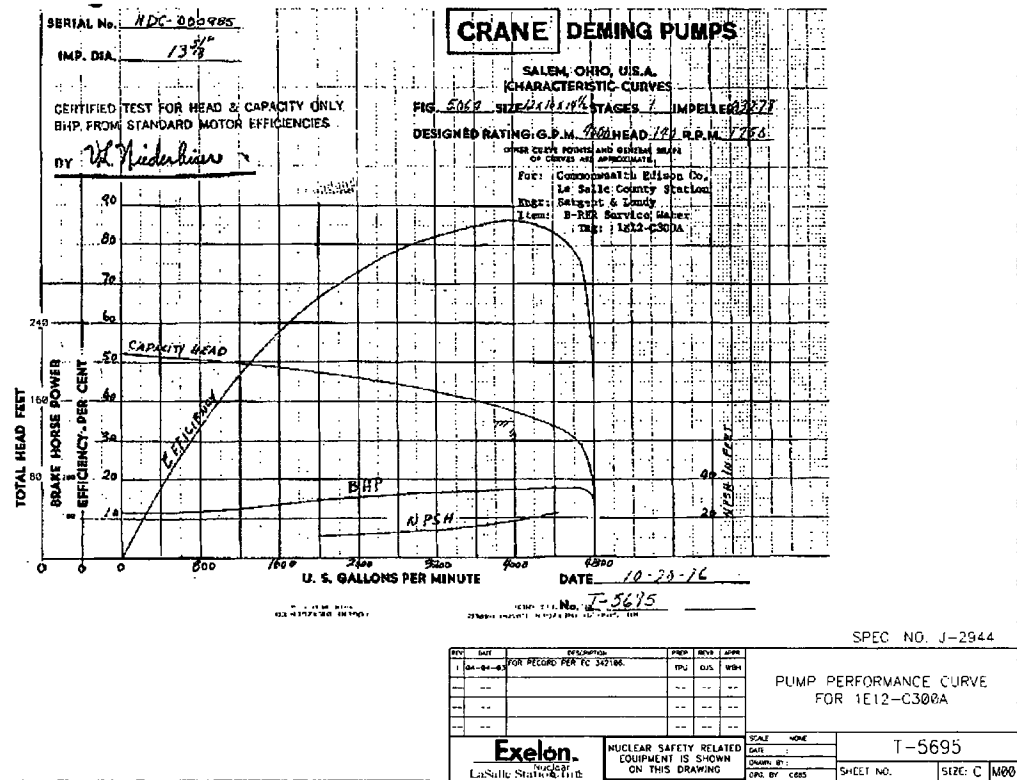


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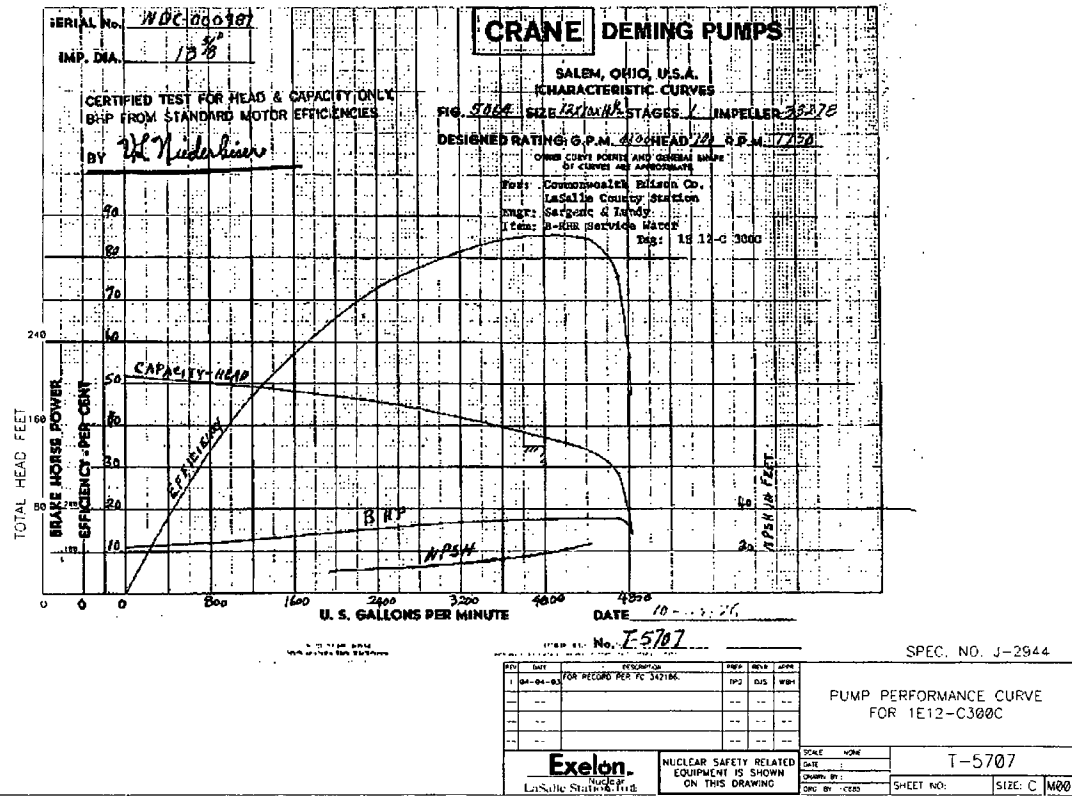
REV.	DATE	DESCRIPTION	REV.	DATE	DESCRIPTION
1	04-04-64	FOR RECORD PER TC 347186	TPC	D/S	WPI
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---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---

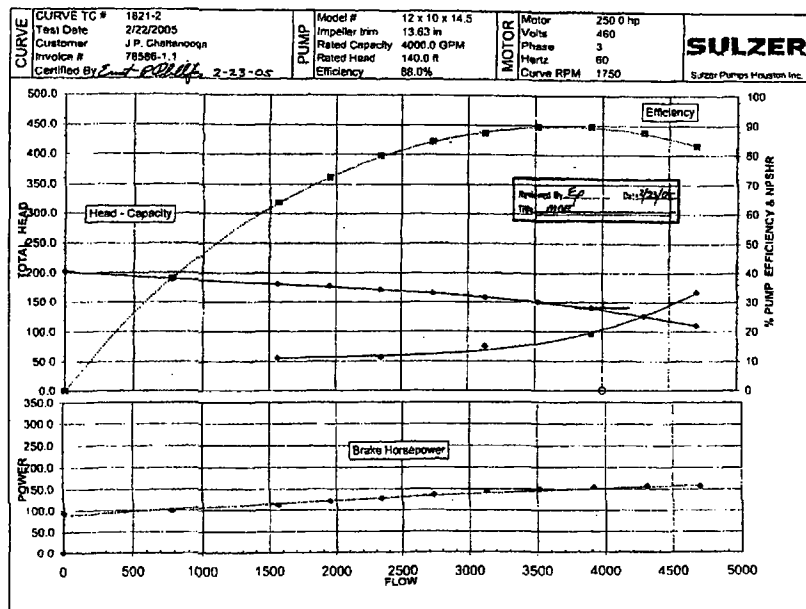
Exelon Nuclear Station	NUCLEAR SAFETY RELATED EQUIPMENT IS SHOWN ON THIS DRAWING	SCALE: NONE DATE: --- DRAWN BY: --- CHK BY: CBO	T-5672
		SHEET NO:	SIZE: C M00

5695-1



2015-1





Sulzer Pumps Houston Inc.

TEST CURVE WORKSHEET

SULZER

TEST ORDER: 78586-1.1
CUSTOMER: J.P. Chatswood
MODEL: 12 x 10 x 14 Crane Casing Pump

TESTED BY: L. Cotton
FILE NAME: TCF 1821-2
TEST DATE: 02/22/05

IMP TEST DIA: 13.63 in
Max IMPELLER DIA: 14.50 in
SUCTION Tap DIA: 11.936 in
Suct. Dist. Flange to Tap: 28.750 in
DISCHARGE Tap DIA: 10.020 in
Disch. Dist. Flange to Tap: 22.000 in
RATED CAPACITY: 4000.00
RATED HEAD: 140.00
BOOK EFFICIENCY: 88.0%
ORIFICE NAME / MAG METER: 12" Mag Flow
Orifice K Value: 0.0001
Elevation Corr.: 0.0001

Suction Multiplier: 1.2310
Suction Gauge/Transducer: 30-kg 30 Psi
Discharge Gauge/Transducer: 6-200 Psi
Test @ 1757 Rpm
Test Capacity: 4000.00
Test Head: 140.00
Design Point #: 9
Flow Range: 529 - 10575 GPM

MOTOR HP: 250.0
MOTOR NAME/PLATE RPM: 1780
CURVE RPM: 1750
VOLTS: 460
PHASE: 3
HERTZ: 60
WATT Meter MULT: 1000
Motor EFF: 93.0%
Motor NO. Test Lab Motor:
Motor MFG: Lincoln
Book NPSHR:
Water Temp. (F): 72.30

TEST DATA

TEST POINT #	PSI / INCHES MULT.	SUCT HEAD	DISCH HEAD Hg	CALC OPM	DELTA P CALC DELTA P	ACTUAL DELTA P or GPM	MOTOR EFF. %	WATTS	RPM	VOLTS (Ref. Only)	AMPS (Ref. Only)
1	2	2.05	94.0	0	N/A	0	83.0%	80.10	1794	475	120.1
2	2	3.25	89.0	800	N/A	800	93.0%	64.90	1794	475	123.6
3	2	1.85	83.5	1600	N/A	1600	93.0%	98.60	1792	474	129.1
4	2	4.80	84.5	2000	N/A	2000	93.0%	104.20	1791	473	148.8
5	2	3.05	80.0	2400	N/A	2400	93.0%	108.70	1792	473	155.1
6	2	2.85	77.0	2800	N/A	2800	93.0%	118.60	1791	473	164.4
7	2	1.80	72.5	3200	N/A	3200	93.0%	123.10	1788	472	172.1
8	2	2.10	68.0	3600	N/A	3600	93.0%	128.00	1789	471	179.0
9	2	2.40	64.0	4000	N/A	4000	93.0%	131.40	1787	471	184.4
10	2	3.58	59.0	4400	N/A	4400	93.0%	133.70	1786	470	187.3
11	2	2.90	51.0	4800	N/A	4800	93.0%	134.40	1787	471	188.4
12	2	2.90	51.0	4800	N/A	4800	93.0%	134.40	1787	471	188.4
										FLA	219

Test Setup Notes:

Witnessed By: _____ Date: _____
 Witnessed For: _____ Date: _____

Test Results

Pump Head as Tested: 138.85 Rated Capacity as Tested: 3917.16 Brake Horsepower as Tested: 153.51
 Catalog RPM: 1750 Pump Efficiency as Tested: 89.47 Impeller Vendor: _____
 Cat. Flow @ BEP: 4000 Catalog Head: 140 Catalog Efficiency: 88 Case Vendor: _____

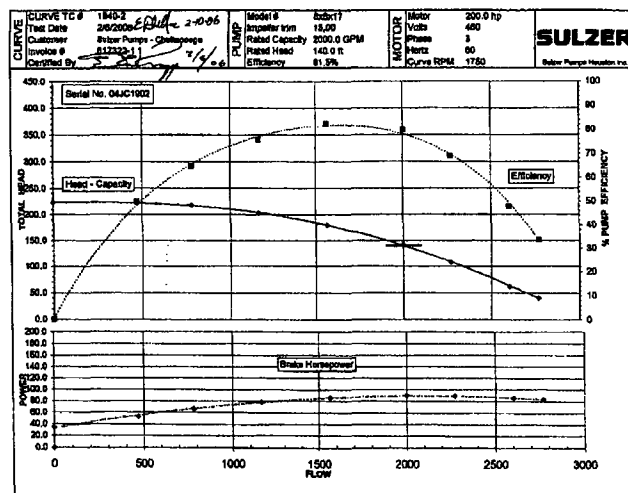
SPEC. NO. J-2944

REV	DATE	DESCRIPTION	PREP.	REVR	APPR
1	EDSF	FOR RECORD PER EC 378951.	EDSF	EDSF	EDSF
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---

PUMP PERFORMANCE CURVE
FOR 1E12-C300D**Exelon**
NuclearNUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN
ON THIS DRAWINGSCALE: NONE
DATE: _____
DRAWN BY: _____
DRC. BY: J. J. J.

1821-2

SHEET NO: _____ SIZE: C M000



SULZER		TEST CURVE WORKSHEET		SULZER																			
Sulzer Group Houston Inc.				TESTED BY: J. Cotto																			
PUMP GROUP:				FILE NAME TOP 190-2																			
CUSTOMER:				TEST DATE: 02/09/96																			
MODEL:																							
<table> <tr> <td colspan="2">TEST #1:</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Motor Power - Chromagex</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">60kW</td> <td colspan="4"></td> </tr> </table>						TEST #1:						Motor Power - Chromagex						60kW					
TEST #1:																							
Motor Power - Chromagex																							
60kW																							
MIP TEST DIA.		15.00 in	Section Inlet/Exit	2.5 in	MOTOR HP	550.0																	
MAX APPELLER DIA.		17.00 in			MOTOR WATTAGE (KW)	1700																	
ALUTION DIA.		7.00 in	Section Gauge/Thickness	20% - 3rd Int	CURVE RPM	1720																	
INLET DIA. Flange to Top		4.57 in			VOLETS	480																	
DISCHARGE DIA. TOP		6.00 in	Discharge Gauge/Thickness	0 - 30% PM	PHASE 3	5																	
INLET DIA. Flange to Top		5.00 in																					
WATER CAPACITY:		2.00 in	Test Capacity:	3000.00	WATT MOTOR KVA	5000																	
RATED HEAD		94.00	Test static:	140.00	Motor HP:	620.00																	
KNOB EFFICIENCY		81.0%	Design Point #	0	Motor HP	Draw Test Motor																	
ENGINE FRAME/NO MOTOR		17.00 in	Flow Rate		Motor WFO	1.0																	
Cable Valve			Q25 - 1000		Draw WFO	1.0																	
Shut-off Valve		0.00 in			Water Temp (F)	87.50																	

TEST DATA											
TEST POINT	PSI MEASUREMENT	BUCKET FILL	DRUM HEAD PSI	GALG. OPG.	DELTA P. GALG. OPG.	ACTUAL DELTA P. @ PSI	MOTOR EFF. %	WATTS	RPM	VOLTS (Phs. Orgs)	AMP (Phs. Orgs)
1	2	2.65	105.0	0	PSI	0	78.0%	34.88	1782	452	71.6
2	2	3.80	300.0	480	PSI	482	80.0%	49.00	1789	490	85.5
3	2	3.15	101.5	800	PSI	804	80.0%	58.30	1782	457	88.2
4	2	2.80	62.5	1320	PSI	1186	80.0%	60.80	1784	477	100.7
5	2	3.30	61.0	1800	PSI	1602	80.3%	76.40	1782	427	117.8
6	2	2.60	64.5	2650	PSI	3050	80.4%	79.10	1785	439	121.9
7	2	2.85	48.0	3233	PSI	3531	80.4%	79.40	1784	435	121.3
8	2	2.45	28.0	3500	PSI	3600	80.3%	78.10	1784	439	117.4
9	2	2.65	17.0	3600	PSI	3840	80.3%	74.10	1786	436	118.3
10	2	2.60	17.0	3600	PSI	3940	80.3%	74.10	1789	431	115.5
11	2	2.65	17.0	3600	PSI	3940	80.3%	74.10	1784	439	119.9
12	2	4.05	17.0	3600	PSI	3940	80.3%	74.10	1784	439	119.9

REV	DATE	DESCRIPTION	PREP.	REV.	APPR.
1	05/01	FOR RECORD FOR EC 3590200.	TS/SL	TS/SL	TS/SL
2	05/01				
3	05/01				
4	05/01				
5	05/01				
6	05/01				
7	05/01				
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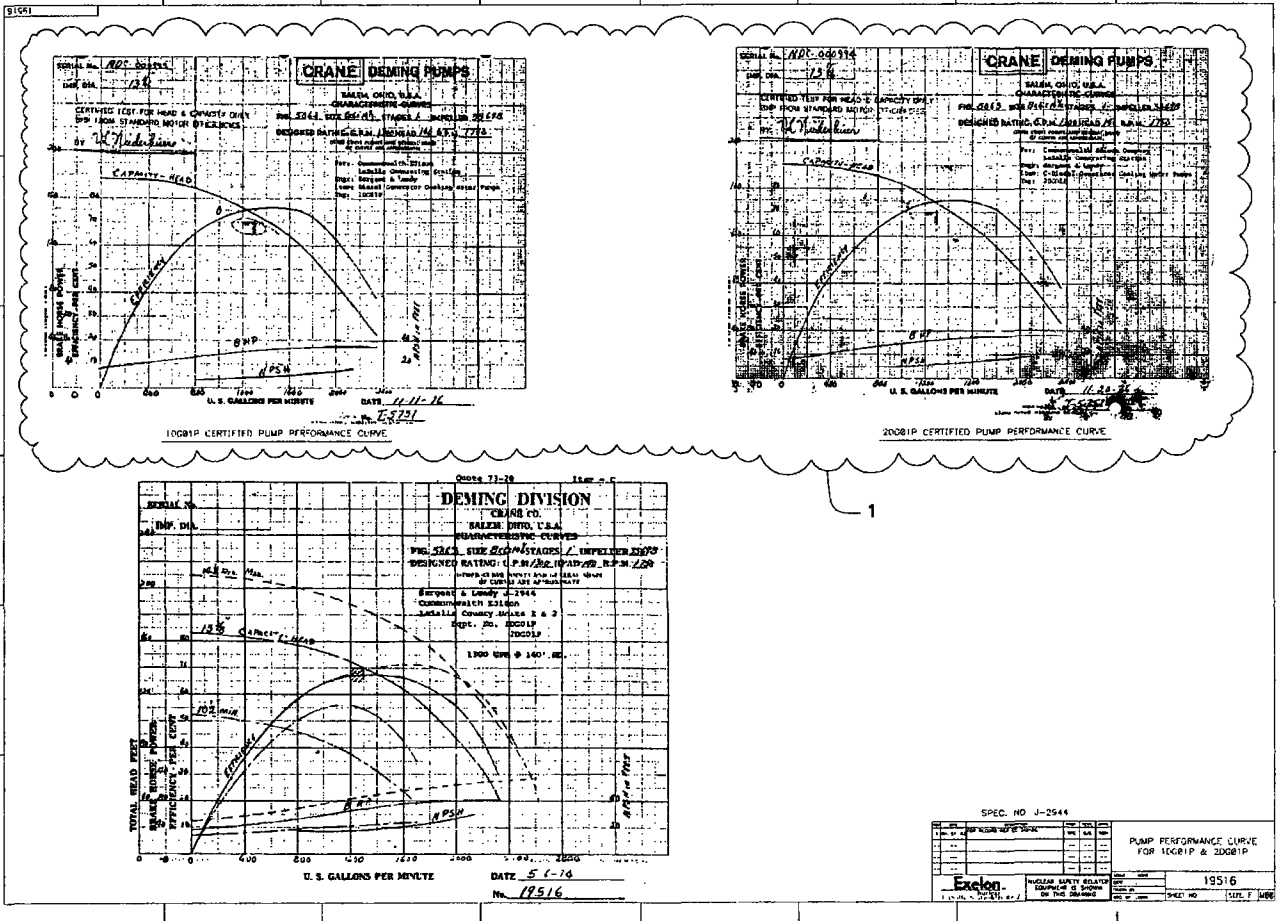
PUMP PERFORMANCE CURVE
FOR 00G01P

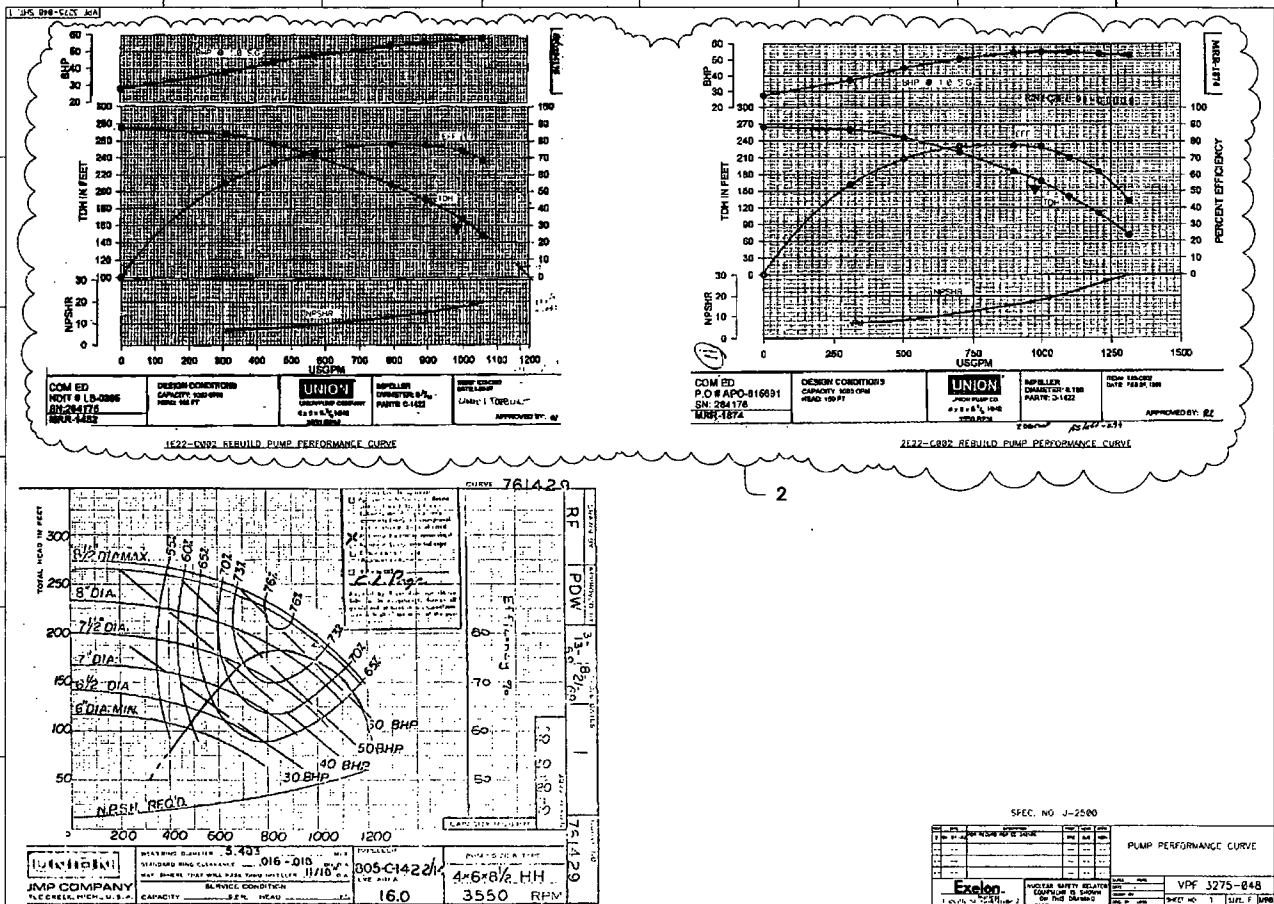
SCALE: 1/4"=1'-0"	
DATE:	1940-2
DRAWN BY:	
CHK. BY: 10653	
SHEET NO:	SIZE: C M00

Exelon

Nuclear

LaSalle Station 1 Unit 1 & 2





Attachment E

UHS Operability Determinations

LAKET10 Version 1.0 - Sargent & Lundy Program No. 03.7.292-1.0
User 0J2069 on PC5407 Tuesday, January 11, 2000 Time : 1:14:54
Controlled Files:

Drive V: = SNL1\SYS3: \

Volume in drive V is SYS3

[Base]\LAKET\$.BAT	07-02-1996 11:49
[Base]\LAKETRUN.BAT	10-24-1997 13:27
[Base]\LPRINT.EXE	08-03-1995 11:42
[Base]\PIA8586.BAT	03-31-1992 16:04
[Base]\BRAUHS3A.BAT	08-01-1995 21:06
[Base]\BRAUHS3A.DAT	08-02-1995 16:57
[Base]\TEST.DAT	11-23-1992 14:00
[Base]\LAKET.EXE	10-27-1997 08:45

Directory of C:\UHS\L-002457\LAKET-PC

case-10	dat	2,644	01-11-00	10:54a
case-11	dat	2,297	01-11-00	1:03p
case-12	dat	2,020	01-11-00	11:08a
case-13	dat	2,299	01-11-00	1:13p

Directory of c:\UHS\L-002457\LAKET-PC

pslsevp	bin	44,642	12-16-97	3:27p
e30	bin	44,642	05-19-99	4:44p
pslsw-2	bin	46,130	12-15-97	3:21p
tcom	bin	53,570	05-19-99	4:44p

E.1 Purpose

This attachment provides two analyses of the LaSalle County Station Ultimate Heat Sink. These analyses are outside the power uprate design basis. The first analysis corresponds to conditions identified in a July 1999 UFSAR update. The second analysis may be used to demonstrate future UHS operability.

E.2 Methodology and Acceptance Criteria

The Methodology is the same as Sec. 2.0 of this calculation. There are no acceptance criteria.

E.3 Assumptions

Same as Sec. 3.0 of this calculation.

E.4 Design Input

Same as Sec. 4.0 of this calculation, except for initial lake temperature as indicated.

E.5 References

Same as Sec. 5.0 of this calculation.

E.6 Calculations

The two UHS analyses provided in this attachment are:

1. For the pre-power uprate configuration, determine the post-accident peak temperature and UHS drawdown for 1.5 ft of postulated siltation, assuming an initial lake temperature of 97°F. In calculating drawdown and the associated post-LOCA temperature transient, Case 10 uses the worst composite 31-day period for heat up in the original design basis weather history. Case 11 uses the worst 30-day period for evaporation in the original design basis weather history. Both Cases 10 and 11 use the UHS heat loads developed for power uprate. The new heat loads are used even though they are less than the original design basis UHS heat loads because the new heat loads are more accurate.
2. For the post-power uprate configuration, determine the peak UHS temperature and maximum UHS drawdown with no postulated siltation, assuming initial lake temperature of 100°F. Case 12 uses the worst composite 36-day period for heat up in the 48-year weather history, ending June 1996. Case 13 uses the worst 30-day period for evaporation in this post-power uprate design basis weather history.

The 1.5-foot-siltation, pre-power uprate scenario may be used to evaluate the pre-power uprate UHS design basis.

The elevated-initial lake temperature scenarios may be used to evaluate UHS operability were the lake to exceed the 97.2°F maximum allowable intake temperature in the future.

E.7 Conclusions**Summary of UHS LAKET-PC Runs:**

Case	Initial Temperature (°F)	Accumulated Siltation (ft)	Weather Data	Peak Intake Temperature (°F)	Maximum 30 Day Drawdown (ft)
10	97	1.5	31-Day Historical Data Worst Temperature	97.86	0.84
11	97	1.5	30-Day Updated Data Worst Evaporation	97.00	1.28
12	100	0.0	36-Day Updated Data Worst Temperature	101.36	1.32
13	100	0.0	30-Day Updated Data Worst Evaporation	101.46	1.47

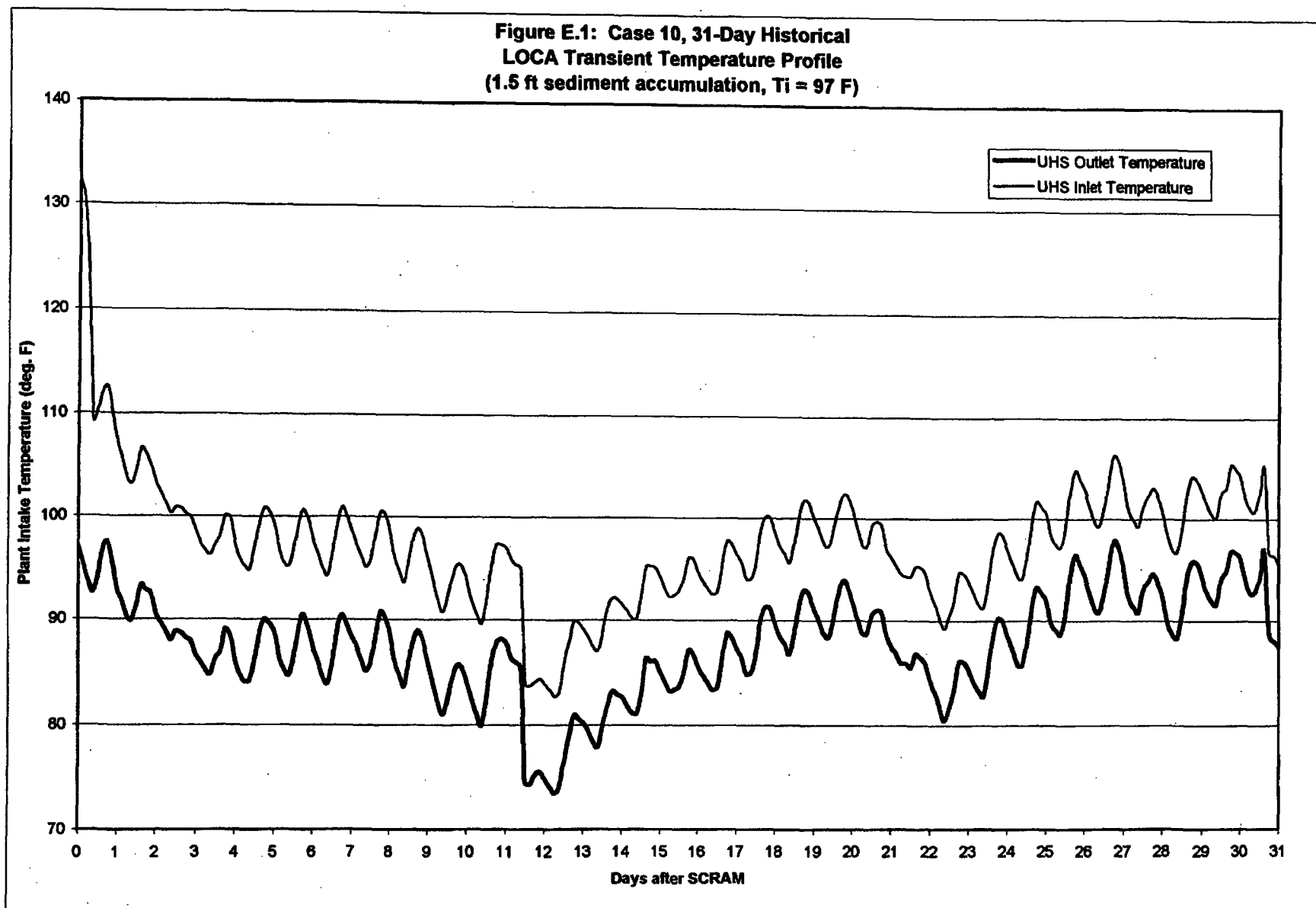
Figures

Plots of the UHS temperature response for Cases 10 through 13 are provided on pp. E4-E8:

- Figure E.1: Case 10, 31-Day Historical, LOCA Transient Plant Intake Temperature Profile (1.5 ft sediment accumulation, $T_i=97^\circ\text{F}$) E4
- Figure E.2: Case 11, 30-Day Historical Worst Evaporation Period, LOCA Transient Temperature (1.5 ft sediment accumulation, $T_i = 97^\circ\text{F}$) E5
- Figure E.3: Case 11, 30-Day Historical Worst Evaporation Period Post-LOCA Drawdown (1.5 ft sediment accumulation, $T_i = 97^\circ\text{F}$) E6
- Figure E.4: Case 12, 36-Day LOCA Transient Plant Intake Temperature Profile (no sediment accumulation, $T_i = 100^\circ\text{F}$) E7
- Figure E.5: Case 13, 30-Day Worst Evaporation Period, LOCA Transient Temperature Profile (no sediment accumulation, $T_i = 100^\circ\text{F}$) E8
- Figure E.6: Case 13, 30-Day Worst Post-LOCA Drawdown (no sediment accumulation, $T_i = 100^\circ\text{F}$) E9

Data

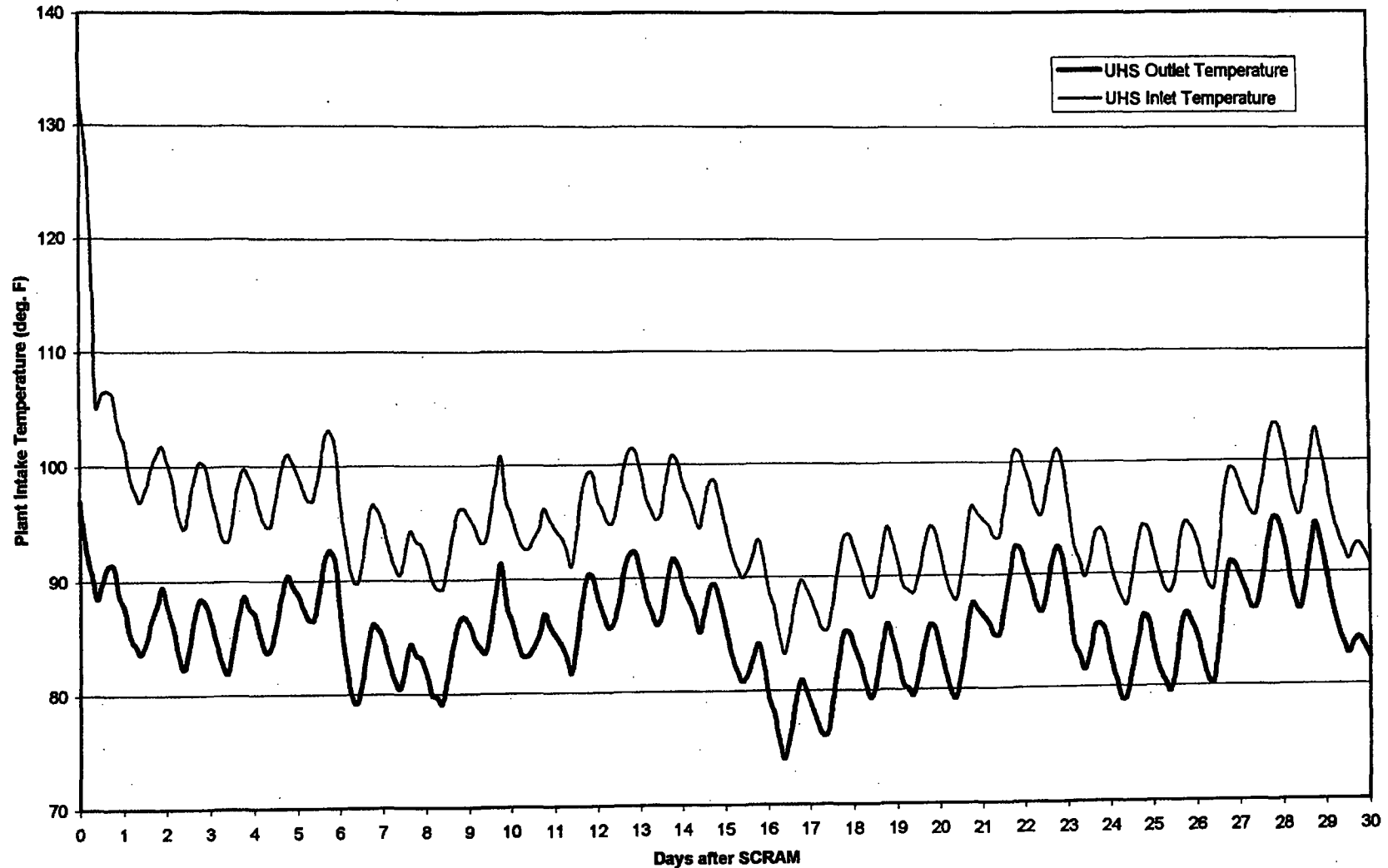
Output data (with input echo) for the LAKET-PC runs made for the pre-power uprate, 1.5-foot siltation scenario (Cases 10 and 11), and the elevated-initial lake temperature scenario (Cases 12 and 13) are provided on pp. E10-E57.



FOR INFORMATION ONLY

PROJECT NO. 11333-297

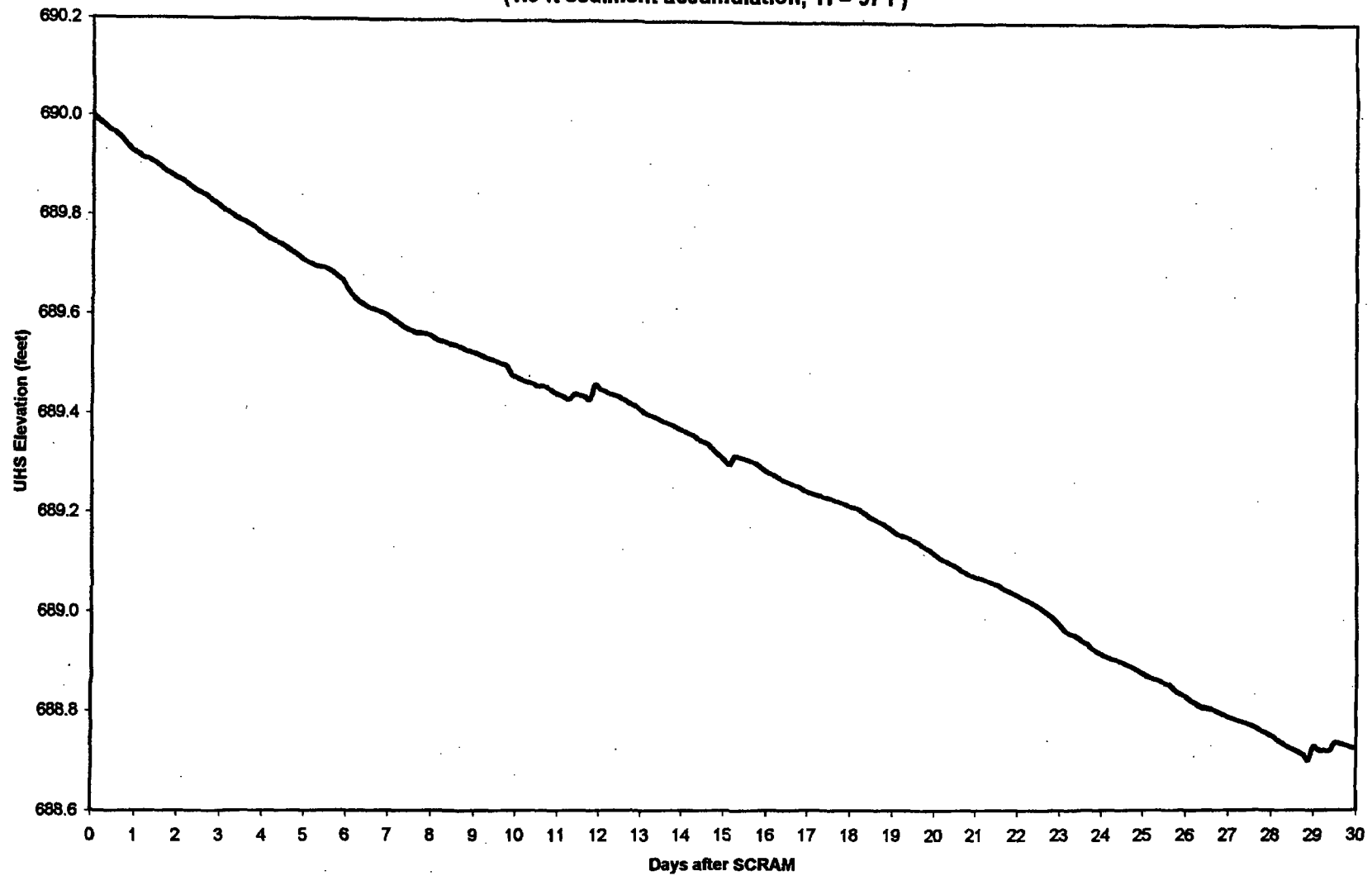
**Figure E.2: Case 11, 30-Day Historical Worst Evaporation Period
LOCA Transient Temperature
(0 ft. sediment accumulation $T_i = 97$ F)**



FOR INFORMATION ONLY

PROJECT NO. 11333-297

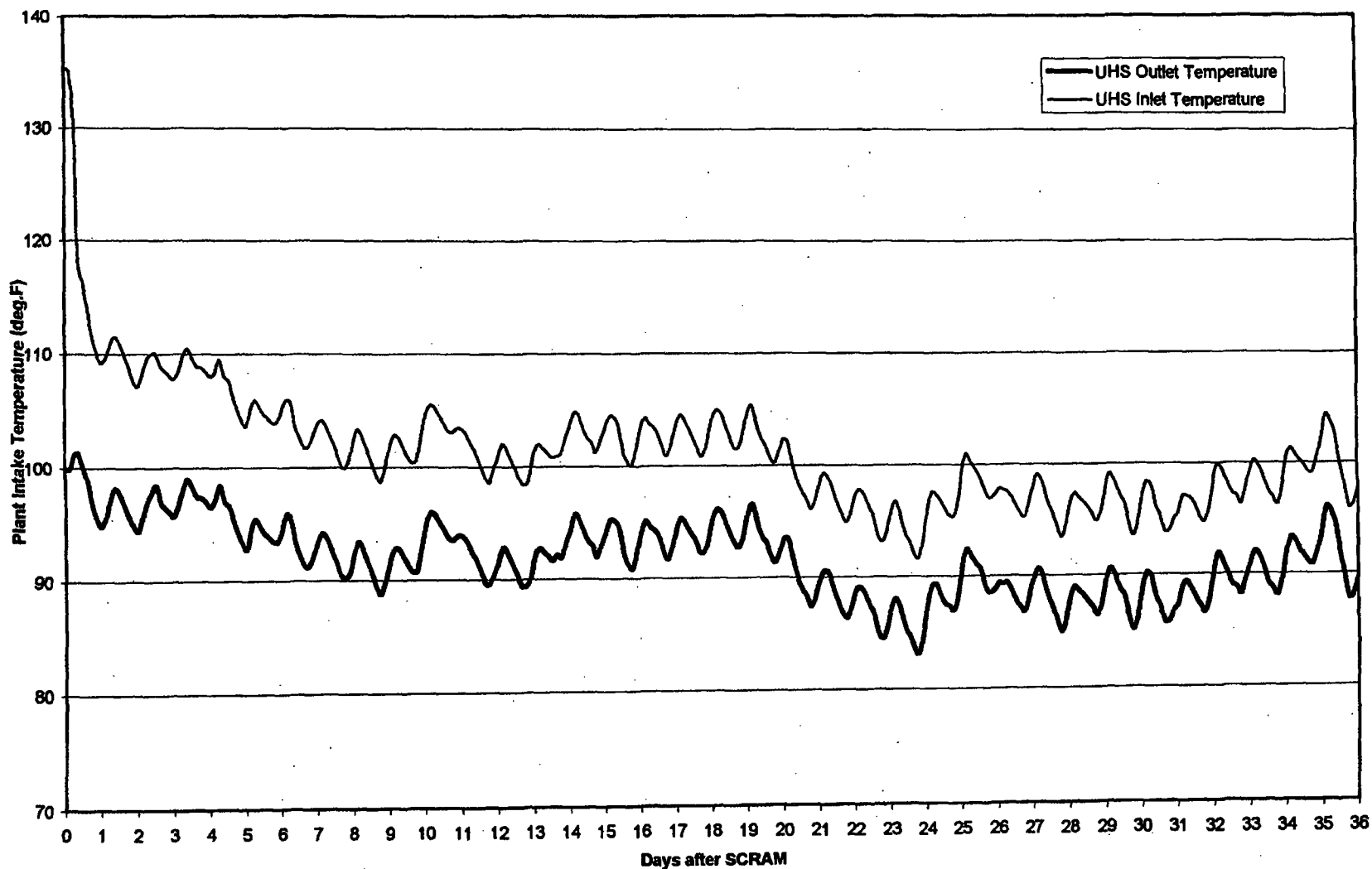
**Figure E.3: Case 11, 30-Day Historical Worst Evaporation Period
Post LOCA Drawdown
(1.5 ft sediment accumulation, $T_i = 97$ F)**



FOR INFORMATION ONLY

PROJECT NO. 11333-297

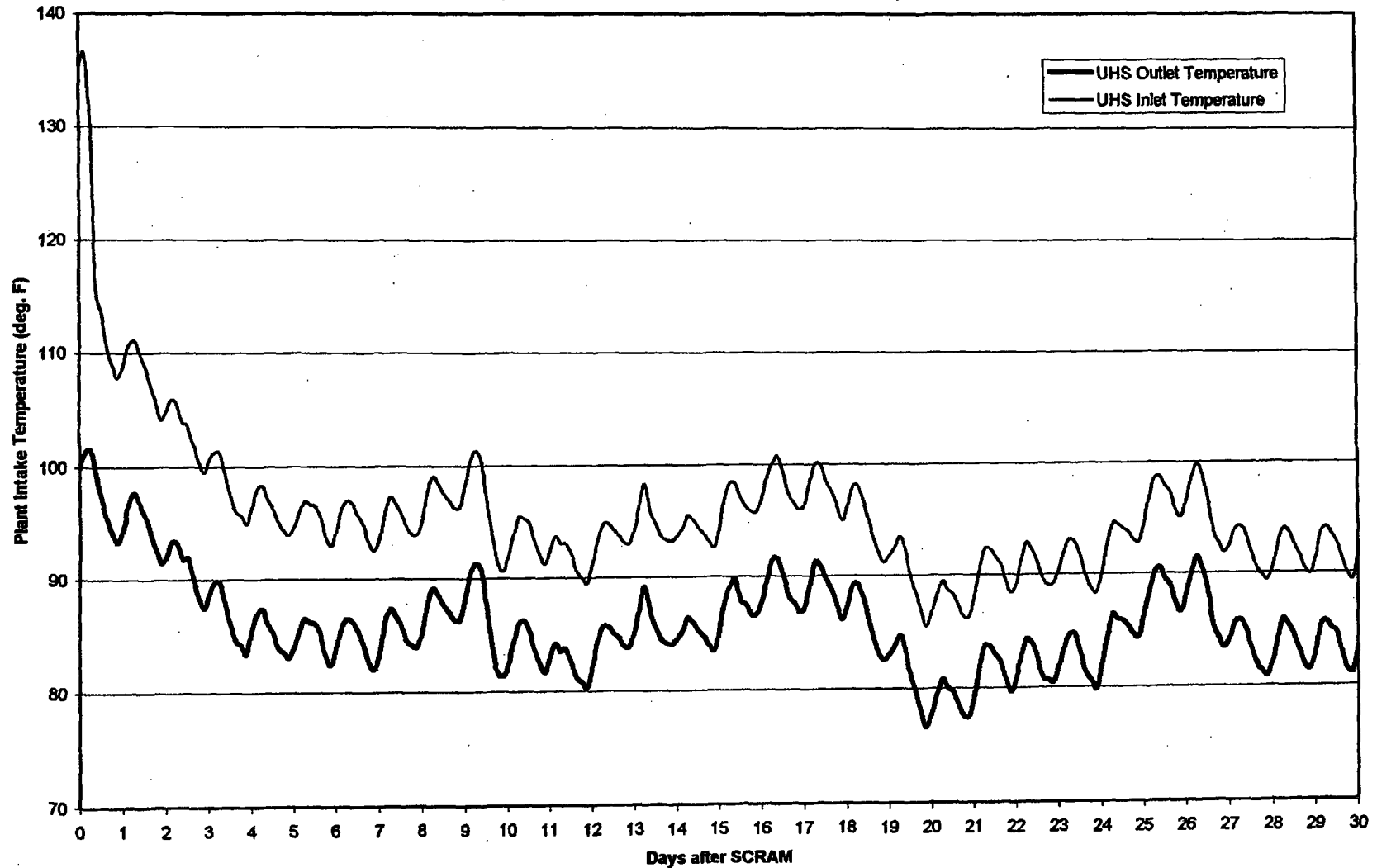
**Figure E.4: Case 12, 36-Day LOCA Transient Temperature Profile
(0 ft. sediment accumulation $T_i = 100$ F)**



FOR INFORMATION ONLY

PROJECT NO. 11333-297

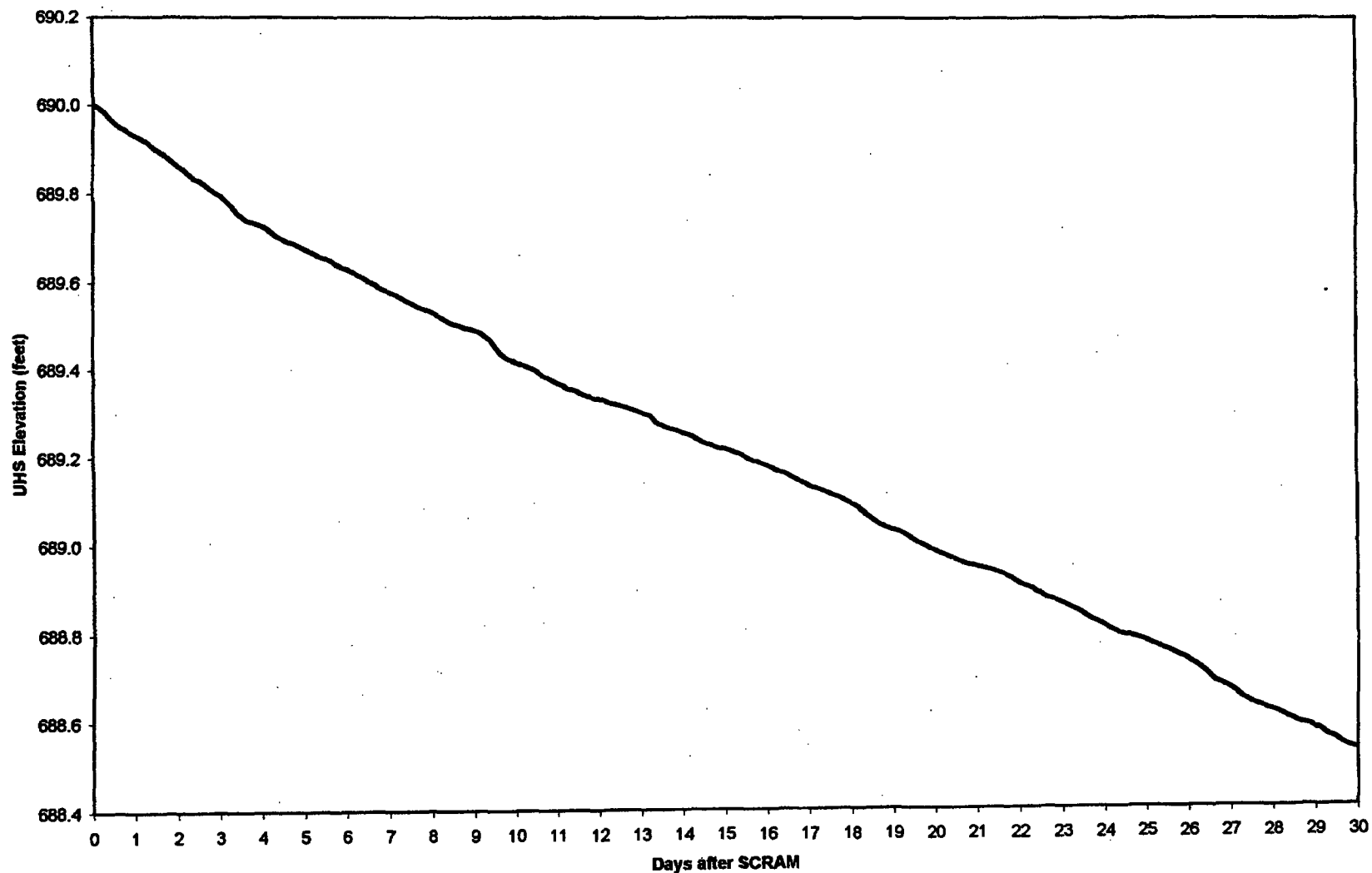
**Figure E.5: Case 13, 30-Day Historical Worst Evaporation Period
LOCA Transient Temperature
(0 ft. sediment accumulation $T_i = 100$ F)**



FOR INFORMATION ONLY

PROJECT NO. 11333-297

**Figure E.6: Case 13, 30-Day Post LOCA Drawdown
(no sediment accumulation, $T_i = 100$ F)**



FOR INFORMATION ONLY

PROJECT NO. 11333-297

Program : LAKET-PC
Number : 03.7.292-1.0 O
Created : Mon Oct 27 08:45:58 1997

Page : 1
Date : 01/11/2000
Time : 12:05:51.79

Case 10: LaSalle UHS (Historical Worst 31-Day Temp; Ti=97.0 F; power uprate; 1.5 ft)

1				
2	070100	073100	1	1
3	1	20		
4	1	0.2	5500.	0
5	690.	690.	1.	6
	81.35	341.4	73.21	307.2
	79.75	260.8	71.78	234.7
	78.15	181.9	70.34	163.7
	29.70	102.2	26.73	92.0
	22.22	60.0	20.00	54.0
	13.42	43.8	12.08	39.4
7	1	0		
8	97	92.3		
999				
FPLANT	R/I	86.0		
TPIRISE	S/I			
35.26				
28.79				
16.68				
16.28				
15.32				
14.97				
14.53				
14.29				
13.88				
13.45				
13.30				
13.30				
13.30				
13.24				
12.73				
12.73				
12.57				
12.43				
12.24				
12.02				
12.02				
12.02				
12.02				
12.01				
11.49				
11.49				
11.49				
11.49				
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11.49				
11.49				
11.09				
11.07				

Page : 2
Date : 01/11/2000
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PROJECT NO. 11333-297

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Date : 01/11/2000
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Date : 01/11/2000
Time : 12:05:51.85

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Created : Mon Oct 27 08:45:58 1997

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Time : 12:05:51.90

8.49
8.44
8.22
8.22
8.22
8.22
8.22
8.22
8.22
8.22
END

Program : LAKET-PC
Number : 03.7.292-1.0 O
Created : Mon Oct 27 08:45:58 1997

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Date : 01/11/2000
Time : 12:05:52.18

Case 10: LaSalle UHS (Historical Worst 31-Day Temp; T1=97.0 F; power uprate; 1.5 ft)

RUN 31 DAYS FROM 70100 TO 73100
PLOT FILE OPTION : 1 CYCLE FLAG: 1

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: .20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE				
ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	81.350	341.400	73.210	307.200
689.000	79.750	260.800	71.780	234.700
688.000	78.150	181.900	70.340	163.700
687.000	29.700	102.200	26.730	92.000
686.000	22.220	60.000	20.000	54.000
685.000	13.420	43.800	12.080	39.400

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 97.00 92.30

WEATHER STATION ID 14842.


```

Program : LAKET-PC
Number   : 03.7.292-1.0 0
Created  : Mon Oct 27 08:45:58 1997

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Page : 1
Date : 01/11/2000
Time : 12:05:52.23
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Case 10: LaSalle UHS (Historical Worst 31-Day Temp; T1=97.0 F; power uprate; 1.5 ft)

EPLANT

70100 -	73100	R/I	86.000
---------	-------	-----	--------

TPRISE

70100 -	73100	S/I	35.260	28.790	16.680	16.280
---------	-------	-----	--------	--------	--------	--------

15.320	14.970	14.530	14.290
13.880	13.450	13.300	13.300
13.300	13.240	12.730	12.730
12.570	12.430	12.240	12.020
12.020	12.020	12.020	12.010
11.490	11.490	11.490	11.490
11.490	11.490	11.490	11.490
11.090	11.070	11.070	11.070
11.070	10.870	10.860	10.860
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.270
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.720	9.700
9.700	9.700	9.700	9.700
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.400	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.150	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.720	8.700	8.700	8.700
8.700	8.700	8.700	8.700
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8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700

Program : LAKET-PC
 Number : 03.7.292-1.0 O
 Created : Mon Oct 27 08:45:58 1997

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Case 10: LaSalle UHS (Historical Worst 31-Day Temp; T1=97.0 F; power uprate; 1.5 ft)

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.18	.00	-.18
TOTAL EVAP (CFS)	.00	-1.41	.00	-1.41
NATURAL EVAP (CFS)	.00	-.79	.00	-.79
FORCED EVAP (CFS)	.00	-.62	.00	-.62
PRECIPITATION (CFS)	.00	.56	.00	.56
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.57	.00	689.57
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	86.51	.00	86.51
LAKE INLET TEMP (F)	.00	97.44	.00	97.44
LAKE OUTLET TEMP (F)	.00	87.72	.00	87.72
TEMPERATURE	FREQUENCY OF OCCURENCES			
	1%	5%	50%	
NATURAL LAKE TEMP (F)	96.5	94.4	86.8	
LAKE INLET TEMP (F)	122.0	105.8	97.3	
LAKE OUTLET TEMP (F)	97.3	95.5	88.0	

Program : LAKET-PC
 Number : 03.7.292-1.0 O
 Created : Mon Oct 27 08:45:58 1997

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 Time : 12:05:52.51

Case 10: LaSalle UHS (Historical Worst 31-Day Temp; Ti=97.0 F; power uprate; 1.5 ft)

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.18	.00	-.18
TOTAL EVAP (CFS)	.00	-1.41	.00	-1.41
NATURAL EVAP (CFS)	.00	-.79	.00	-.79
FORCED EVAP (CFS)	.00	-.62	.00	-.62
PRECIPITATION (CFS)	.00	.56	.00	.56
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.57	.00	689.57
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	86.51	.00	86.51
LAKE INLET TEMP (F)	.00	97.44	.00	97.44
LAKE OUTLET TEMP (F)	.00	87.72	.00	87.72

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	96.5	94.4	86.8
LAKE INLET TEMP (F)	122.0	105.8	97.3
LAKE OUTLET TEMP (F)	97.3	95.5	88.0

Program : LAKET-PC
 Number : 03.7.292-1.0 0
 Created : Mon Oct 27 08:45:58 1997

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 Date : 01/11/2000
 Time : 12:05:52.51

Case 10: LaSalle UHS (Historical Worst 31-Day Temp; T1=97.0 F; power uprate; 1.5 ft)

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE	TOTAL FLOW (ACRE-FEET)
LAKE SEEPAGE (CFS)	-.16 (7311900)	-.20 (7011900)	-.18	-1.11450E+01
TOTAL EVAP (CFS)	-.35 (7121900)	-5.11 (7311900)	-1.41	-8.68302E+01
NATURAL EVAP (CFS)	.00 (7141900)	-4.08 (7311900)	-.79	-4.85341E+01
FORCED EVAP (CFS)	-.24 (7301900)	-1.63 (7011900)	-.62	-3.82961E+01
PRECIPITATION (CFS)	84.46 (7121900)	.00 (7011900)	.56	3.42071E+01
MAKEUP (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
BLOWDOWN (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
RUNOFF (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
DAM SPILL (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
LAKE ELEVATION (FEET)	690.00 (7011900)	689.14 (7311900)	689.57	4.24001E+04
DISSOLVED SOLIDS (PPM)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
NATURAL LAKE TEMP (F)	96.94 (7271900)	71.80 (7131900)	86.51	5.31907E+03
LAKE INLET TEMP (F)	130.65 (7011900)	82.68 (7131900)	97.44	5.99149E+03
LAKE OUTLET TEMP (F)	97.86 (7271900)	73.49 (7131900)	87.72	5.39394E+03

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	96.5	94.4	86.8
LAKE INLET TEMP (F)	122.0	105.8	97.3
LAKE OUTLET TEMP (F)	97.3	95.5	88.0

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Case 11: LaSalle UHS (Historical Worst 30-Day Evap; Ti=97.0 F; power uprate; 1.5 ft)

1				
2	070100	073000	1	1
3	1	20		
4	1	0.2	5500.	0
5	690.	690.	1.	6
	81.35	341.4	73.22	307.2
	79.75	260.8	71.78	234.7
	78.15	181.9	70.34	163.7
	29.70	102.2	26.73	92.0
	22.22	60.0	20.00	54.0
	13.42	43.8	12.08	39.4
7	1	0		
8	97	92.3		
999				
FPLANT	R/I	86.0		
TPRISE	S/I			
35.26				
28.79				
16.68				
16.28				
15.32				
14.97				
14.53				
14.29				
13.88				
13.45				
13.30				
13.30				
13.30				
13.24				
12.73				
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11.09				
11.07				

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PROJECT NO. 11333-297

CALCULATION NO. L-002457

REVISION NO. 8

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8.49
8.44
END

PROJECT NO. 11333-297

Program : LAKET-PC
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Case 11: LaSalle UHS (Historical Worst 30-Day Evap; Ti=97.0 F; power uprate; 1.5 ft)

RUN 30 DAYS FROM 70100 TO 73000
PLOT FILE OPTION : 1 CYCLE FLAG: 1

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: .20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	81.350	341.400	73.220	307.200
689.000	79.750	260.800	71.780	234.700
688.000	78.150	181.900	70.340	163.700
687.000	29.700	102.200	26.730	92.000
686.000	22.220	60.000	20.000	54.000
685.000	13.420	43.800	12.080	39.400

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 97.00 92.30

WEATHER STATION ID 93822.

Program : LAKET-PC
Number : 03.7.292-1.0 0
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Case 11: LaSalle UHS (Historical Worst 30-Day Evap; Ti=97.0 F; power uprate; 1.5 ft)

[illegible]

8.700	8.700	8.700	8.700
8.700	8.520	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.490
8.490	8.490	8.490	8.440

Program : LAKET-PC
 Number : 03.7.292-1.0 0
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Case 11: LaSalle UHS (Historical Worst 30-Day Evap; Ti=97.0 F; power uprate; 1.5 ft)

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.76	.00	-1.76
NATURAL EVAP (CFS)	.00	-1.13	.00	-1.13
FORCED EVAP (CFS)	.00	-.62	.00	-.62
PRECIPITATION (CFS)	.00	.21	.00	.21
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.30	.00	689.30
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.23	.00	84.23
LAKE INLET TEMP (F)	.00	95.09	.00	95.09
LAKE OUTLET TEMP (F)	.00	85.34	.00	85.34

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	93.3	90.6	84.1
LAKE INLET TEMP (F)	119.0	102.0	94.8
LAKE OUTLET TEMP (F)	94.3	92.2	85.4

Program : LAKET-PC
 Number : 03.7.292-1.0 0
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Case 11: LaSalle UHS (Historical Worst 30-Day Evap; Ti=97.0 F; power uprate; 1.5 ft)

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.76	.00	-1.76
NATURAL EVAP (CFS)	.00	-1.13	.00	-1.13
FORCED EVAP (CFS)	.00	-.62	.00	-.62
PRECIPITATION (CFS)	.00	.21	.00	.21
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.30	.00	689.30
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.23	.00	84.23
LAKE INLET TEMP (F)	.00	95.09	.00	95.09
LAKE OUTLET TEMP (F)	.00	85.34	.00	85.34

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	93.3	90.6	84.1
LAKE INLET TEMP (F)	119.0	102.0	94.8
LAKE OUTLET TEMP (F)	94.3	92.2	85.4

Program : LAKET-PC
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Case 11: LaSalle UHS (Historical Worst 30-Day Evap; Ti=97.0 F; power uprate; 1.5 ft)

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE	TOTAL FLOW (ACRE-FEET)
LAKE SEEPAGE (CFS)	-.14 (7291900)	-.20 (7011900)	-.17	-1.00805E+01
TOTAL EVAP (CFS)	-.51 (7301900)	-5.47 (7061900)	-1.76	-1.04618E+02
NATURAL EVAP (CFS)	-.24 (7091900)	-4.15 (7061900)	-1.13	-6.74350E+01
FORCED EVAP (CFS)	-.15 (7271900)	-1.52 (7011900)	-.62	-3.71835E+01
PRECIPITATION (CFS)	10.92 (7291900)	.00 (7011900)	.21	1.22595E+01
MAKEUP (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
BLOWDOWN (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
RUNOFF (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
DAM SPILL (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.70 (7291900)	689.30	4.10164E+04
DISSOLVED SOLIDS (PPM)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
NATURAL LAKE TEMP (F)	93.92 (7291900)	73.98 (7171900)	84.23	5.01232E+03
LAKE INLET TEMP (F)	128.10 (7011900)	83.11 (7171900)	95.09	5.65827E+03
LAKE OUTLET TEMP (F)	94.91 (7281900)	73.98 (7171900)	85.34	5.07837E+03

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	93.3	90.6	84.1
LAKE INLET TEMP (F)	119.0	102.0	94.8
LAKE OUTLET TEMP (F)	94.3	92.2	85.4

Program : LAKET-PC
Number : 03.7.292-1.0 O
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Case 12: LaSalle UHS (Updated Worst 36-Day Temp.; Ti=100.0 F; power uprate, 0 ft

1				
2	070100	080500	1	1
3	1	20		
4	1	0.2	5500.	0
5	690.	690.	1.	6
	83.83	464.9	75.45	418.4
	82.15	381.9	73.94	343.7
	80.55	300.5	72.50	270.5
	78.96	220.8	71.06	198.7
	77.33	142.6	69.60	128.4
	29.70	71.7	26.73	65.6
7	1	0		
8	100.0	95.3		
999				
FPLANT	R/I	86.0		
TPRISE	S/I			
35.26				
28.79				
16.68				
16.28				
15.32				
14.97				
14.53				
14.29				
13.88				
13.45				
13.30				
13.30				
13.30				
13.24				
12.73				
12.73				
12.57				
12.43				
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12.01				
11.49				
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11.09				
11.07				

Program : LAKET-PC
Number : 03.7.292-1.0 O
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Program : LAKET-PC
Number : 03.7.292-1.0 0
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[illegible]

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[illegible]

Program : LAKET-PC
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[illegible]

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PROJECT NO. 11333-297

Program : LAKET-PC
Number : 03.7.292-1.0 0
Created : Mon Oct 27 08:45:58 1997

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Case 12: LaSalle UHS (Updated Worst 36-Day Temp.; Ti=100.0 F; power uprate, 0 ft

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: .62.40 SEEPAGE: .20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	83.830	464.900	75.450	418.400
689.000	82.150	381.900	73.940	343.700
688.000	80.550	300.500	72.500	270.500
687.000	78.960	220.800	71.060	198.700
686.000	77.330	142.600	69.600	128.400
685.000	29.700	71.700	26.730	65.600

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 100.00 95.30

WEATHER STATION ID 0.

Program : LAKET-PC
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Case 12: LaSalle UHS (Updated Worst 36-Day Temp.; T1=100.0 F; power uprate, 0 ft

FPLANT

70100 - 80500 R/I 86.000

TPRISE

70100 - 80500 S/I 35.260 28.790 16.680 16.280

15.320	14.970	14.530	14.290
13.880	13.450	13.300	13.300
13.300	13.240	12.730	12.730
12.570	12.430	12.240	12.020
12.020	12.020	12.020	12.010
11.490	11.490	11.490	11.490
11.490	11.490	11.490	11.490
11.090	11.070	11.070	11.070
11.070	10.870	10.860	10.860
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.500
10.500	10.500	10.500	10.270
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.990	9.990
9.990	9.990	9.720	9.700
9.700	9.700	9.700	9.700
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.540	9.540	9.540	9.540
9.400	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.190	9.190
9.190	9.190	9.150	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.850	8.850	8.850	8.850
8.720	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700
8.700	8.700	8.700	8.700

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Program : LAKET-PC
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Case 12: LaSalle UHS (Updated Worst 36-Day Temp.; Ti=100.0 F; power uprate, 0 ft

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.18	-.15	-.17
TOTAL EVAP (CFS)	.00	-1.64	-1.32	-1.60
NATURAL EVAP (CFS)	.00	-1.00	-.77	-.96
FORCED EVAP (CFS)	.00	-.65	-.55	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.29	688.56	689.19
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	90.98	89.49	90.77
LAKE INLET TEMP (F)	.00	101.66	98.70	101.25
LAKE OUTLET TEMP (F)	.00	91.89	90.51	91.70

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	97.9	96.5	90.8
LAKE INLET TEMP (F)	129.0	109.7	100.8
LAKE OUTLET TEMP (F)	101.0	97.6	91.7

Program : LAKET-PC
 Number : 03.7.292-1.0 0
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Case 12: LaSalle UHS (Updated Worst 36-Day Temp.: T1=100.0 F; power uprate, 0 ft

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.18	-.15	-.17
TOTAL EVAP (CFS)	.00	-1.64	-1.32	-1.60
NATURAL EVAP (CFS)	.00	-1.00	-.77	-.96
FORCED EVAP (CFS)	.00	-.65	-.55	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.29	688.56	689.19
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	90.98	89.49	90.77
LAKE INLET TEMP (F)	.00	101.66	98.70	101.25
LAKE OUTLET TEMP (F)	.00	91.89	90.51	91.70

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	97.9	96.5	90.8
LAKE INLET TEMP (F)	129.0	109.7	100.8
LAKE OUTLET TEMP (F)	101.0	97.6	91.7

Program : LAKET-PC
 Number : 03.7.292-1.0 0
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Case 12: LaSalle UHS (Updated Worst 36-Day Temp.; T1=100.0 F; power uprate, 0 ft

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE	TOTAL FLOW (ACRE-FEET)
LAKE SEEPAGE (CFS)	-.15 (8051900)	-.20 (7011900)	-.17	-1.24016E+01
TOTAL EVAP (CFS)	-.28 (8051900)	-4.00 (7051900)	-1.60	-1.14179E+02
NATURAL EVAP (CFS)	.00 (7031900)	-2.71 (7051900)	-.96	-6.88598E+01
FORCED EVAP (CFS)	-.26 (7311900)	-1.63 (7011900)	-.63	-4.53194E+01
PRECIPITATION (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
MAKEUP (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
BLOWDOWN (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
RUNOFF (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
DAM SPILL (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.46 (8051900)	689.19	4.92113E+04
DISSOLVED SOLIDS (PPM)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
NATURAL LAKE TEMP (F)	98.39 (7011900)	82.24 (7241900)	90.77	6.48137E+03
LAKE INLET TEMP (F)	135.14 (7011900)	91.64 (7241900)	101.25	7.22951E+03
LAKE OUTLET TEMP (F)	101.36 (7011900)	83.15 (7241900)	91.70	6.54786E+03

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%

NATURAL LAKE TEMP (F)	97.9	96.5	90.8
LAKE INLET TEMP (F)	129.0	109.7	100.8
LAKE OUTLET TEMP (F)	101.0	97.6	91.7

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Case 13: LaSalle UHS (Updated Worst 30-Day Evap; Ti=100.0 F; power uprate; 0 ft

1				
2	070100	073000	1	1
3	1	20		
4	1	0.2	5500.	0
5	690.	690.	1.	6
	83.83	464.9	75.45	418.4
	82.15	381.9	73.94	343.7
	80.55	300.5	72.50	270.5
	78.96	220.8	71.06	198.7
	77.33	142.6	69.60	128.4
	29.70	71.7	26.73	65.6
7	1	0		
8	100.0	95.3		
999				
FPLANT	R/I	86.0		
TPRISE	S/I			
35.26				
28.79				
16.68				
16.28				
15.32				
14.97				
14.53				
14.29				
13.88				
13.45				
13.30				
13.30				
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12.73				
12.73				
12.57				
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11.09				
11.07				

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11.07
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PROJECT NO. 11333-297

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PROJECT NO. 11333-297

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PROJECT NO. 11333-297

CALCULATION NO. L-002457

REVISION NO. 8

ATTACHMENT E
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8.49
8.44
END

PROJECT NO. 11333-297

Program : LAKET-PC
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Case 13: LaSalle UHS (Updated Worst 30-Day Evap; Ti=100.0 F; power uprate; 0 ft

RUN 30 DAYS FROM 70100 TO 73000
PLOT FILE OPTION : 1 CYCLE FLAG: 1

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: .20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	83.830	464.900	75.450	418.400
689.000	82.150	381.900	73.940	343.700
688.000	80.550	300.500	72.500	270.500
687.000	78.960	220.800	71.060	198.700
686.000	77.330	142.600	69.600	128.400
685.000	29.700	71.700	26.730	65.600

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 100.00 95.30

WEATHER STATION ID 0.


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Program : LAKET-PC
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ATTACHMENT E
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FPLANT

TPRISE

[illegible]

PROJECT NO. 11333-297

PROJECT NO. 11333-297

Program : LAKET-PC
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Case 13: LaSalle UHS (Updated Worst 30-Day Evap; Ti=100.0 F; power uprate; 0 ft

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.86	.00	-1.86
NATURAL EVAP (CFS)	.00	-1.24	.00	-1.24
FORCED EVAP (CFS)	.00	-.63	.00	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.22	.00	689.22
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.68	.00	84.68
LAKE INLET TEMP (F)	.00	95.58	.00	95.58
LAKE OUTLET TEMP (F)	.00	85.79	.00	85.79

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	97.5	93.0	84.1
LAKE INLET TEMP (F)	130.0	107.5	94.5
LAKE OUTLET TEMP (F)	101.0	93.8	85.3

Program : LAKET-PC
 Number : 03.7.292-1.0 O
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Case 13: LaSalle UHS (Updated Worst 30-Day Evap; Ti=100.0 F; power uprate; 0 ft

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	.00	-.17	.00	-.17
TOTAL EVAP (CFS)	.00	-1.86	.00	-1.86
NATURAL EVAP (CFS)	.00	-1.24	.00	-1.24
FORCED EVAP (CFS)	.00	-.63	.00	-.63
PRECIPITATION (CFS)	.00	.00	.00	.00
MAKEUP (CFS)	.00	.00	.00	.00
BLOWDOWN (CFS)	.00	.00	.00	.00
RUNOFF (CFS)	.00	.00	.00	.00
DAM SPILL (CFS)	.00	.00	.00	.00
LAKE ELEVATION (FEET)	.00	689.22	.00	689.22
DISSOLVED SOLIDS (PPM)	.00	.00	.00	.00
NATURAL LAKE TEMP (F)	.00	84.68	.00	84.68
LAKE INLET TEMP (F)	.00	95.58	.00	95.58
LAKE OUTLET TEMP (F)	.00	85.79	.00	85.79

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	97.5	93.0	84.1
LAKE INLET TEMP (F)	130.0	107.5	94.5
LAKE OUTLET TEMP (F)	101.0	93.8	85.3

Program : LAKET-PC
 Number : 03.7.292-1.0 0
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Case 13: LaSalle UHS (Updated Worst 30-Day Evap; Ti=100.0 F; power uprate; 0 ft

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE	TOTAL FLOW (ACRE-FEET)
LAKE SEEPAGE (CFS)	-.15 (7301900)	-.20 (7011900)	-.17	-1.04013E+01
TOTAL EVAP (CFS)	-.55 (7121900)	-5.33 (7101900)	-1.86	-1.10934E+02
NATURAL EVAP (CFS)	-.28 (7051900)	-4.08 (7101900)	-1.24	-7.35814E+01
FORCED EVAP (CFS)	-.15 (7301900)	-2.00 (7011900)	-.63	-3.73526E+01
PRECIPITATION (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
MAKEUP (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
BLOWDOWN (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
RUNOFF (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
DAM SPILL (CFS)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.53 (7301900)	689.22	4.10114E+04
DISSOLVED SOLIDS (PPM)	.00 (7011900)	.00 (7011900)	.00	0.00000E+00
NATURAL LAKE TEMP (F)	98.31 (7011900)	76.26 (7201900)	84.68	5.03876E+03
LAKE INLET TEMP (F)	136.49 (7011900)	85.42 (7201900)	95.58	5.68754E+03
LAKE OUTLET TEMP (F)	101.45 (7011900)	76.57 (7201900)	85.79	5.10465E+03

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
NATURAL LAKE TEMP (F)	97.5	93.0	84.1
LAKE INLET TEMP (F)	130.0	107.5	94.5
LAKE OUTLET TEMP (F)	101.0	93.8	85.3

Attachment F
LAKE-T Plot Data

Case 0009

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
0	12.375	690	93.5	133.26	98
0.125	12.5	689.993	94.337	133.379	98.119
0.25	12.625	689.986	96	128.291	99.501
0.375	12.75	689.977	96.967	116.617	99.937
0.5	12.875	689.968	96.347	115.053	98.773
0.625	13	689.961	95.626	112.792	97.472
0.75	13.125	689.951	94.165	110.46	95.49
0.875	13.25	689.945	93.187	108.966	94.436
1	13.375	689.94	92.827	108.306	94.016
1.125	13.5	689.933	93.834	108.809	94.929
1.25	13.625	689.927	95.587	110.054	96.604
1.375	13.75	689.919	96.572	110.805	97.505
1.5	13.875	689.912	96.087	110.256	96.956
1.625	14	689.906	95.261	109.385	96.085
1.75	14.125	689.9	94.382	108.405	95.165
1.875	14.25	689.894	93.619	107.099	94.369
2	14.375	689.889	93.21	106.653	93.923
2.125	14.5	689.883	94.397	107.635	95.065
2.25	14.625	689.876	95.88	108.919	96.489
2.375	14.75	689.868	96.773	109.576	97.336
2.5	14.875	689.86	96.261	109.511	97.937
2.625	15	689.853	95.363	108.506	96.486
2.75	15.125	689.849	94.673	107.777	95.757
2.875	15.25	689.846	94.289	107.382	95.362
3	15.375	689.842	94.026	107.072	95.062
3.125	15.5	689.837	95.296	108.159	96.812
3.25	15.625	689.83	96.837	109.854	98.364
3.375	15.75	689.821	97.568	110.466	98.976
3.5	15.875	689.813	96.87	109.68	98.19
3.625	16	689.808	96.148	108.91	97.42
3.75	16.125	689.805	95.772	108.521	97.031
3.875	16.25	689.802	95.379	108.216	96.726
4	16.375	689.797	95.016	107.806	96.316
4.125	16.5	689.791	95.86	108.162	97.072
4.25	16.625	689.783	97.16	109.349	98.279
4.375	16.75	689.771	95.869	107.94	96.87
4.5	16.875	689.765	95.494	107.521	96.451
4.625	17	689.76	94.594	106.579	95.362
4.75	17.125	689.753	93.361	104.96	94.09
4.875	17.25	689.748	92.421	103.901	93.041
5	17.375	689.743	91.859	103.313	92.453
5.125	17.5	689.738	93.676	104.794	94.294
5.25	17.625	689.732	94.658	105.731	95.231
5.375	17.75	689.725	94.126	105.165	94.665
5.5	17.875	689.721	93.49	104.511	94.011
5.625	18	689.719	93.136	104.151	93.651
5.75	18.125	689.717	92.765	103.775	93.275
5.875	18.25	689.713	92.486	103.479	92.979
6	18.375	689.707	93.51	104.563	94.382
6.125	18.5	689.701	94.392	105.714	95.214
6.25	18.625	689.694	93.862	105.321	95.32
6.375	18.75	689.686	92.579	103.848	93.348
6.5	18.875	689.68	91.53	102.767	92.267
6.625	19	689.675	90.605	101.817	91.317
6.75	19.125	689.673	90.657	101.926	91.426
6.875	19.25	689.668	91.622	102.88	92.38
7	19.375	689.66	92.903	103.859	93.589
7.125	19.5	689.651	93.555	104.17	94.18
7.25	19.625	689.646	93.048	103.626	93.636
7.375	19.75	689.64	92.038	102.586	92.596
7.5	19.875	689.634	91.036	101.557	91.567
7.625	20	689.629	89.989	100.484	90.494

Case 0009

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
7.75	12.375	689.622	89.186	99.896	90.161
7.875	12.5	689.615	89.667	100.551	90.561
8	12.625	689.609	91.338	102.265	92.275
8.125	12.75	689.604	92.536	103.417	93.427
8.25	12.875	689.598	92.016	102.852	92.862
8.375	13	689.591	90.92	101.714	91.724
8.5	13.125	689.585	89.8	100.599	90.609
8.625	13.25	689.58	88.69	99.45	89.46
8.75	13.375	689.574	88.1	98.944	88.954
8.875	13.5	689.567	88.863	99.641	89.651
9	13.625	689.562	90.732	101.462	91.472
9.125	13.75	689.557	91.975	102.663	92.673
9.25	13.875	689.553	91.939	102.598	92.608
9.375	14	689.549	91.42	101.78	92.06
9.5	14.125	689.544	90.669	101.239	91.539
9.625	14.25	689.54	90.098	100.639	90.939
9.75	14.375	689.538	90.167	100.699	90.999
9.875	14.5	689.534	91.602	102.1	92.4
10	14.625	689.53	93.49	104.512	94.812
10.125	14.75	689.525	94.716	105.509	95.969
10.25	14.875	689.52	94.633	105.381	95.841
10.375	15	689.514	93.954	104.637	95.097
10.5	15.125	689.509	93.342	104.073	94.533
10.625	15.25	689.504	92.697	103.379	93.839
10.75	15.375	689.5	92.251	102.884	93.344
10.875	15.5	689.494	92.727	103.356	93.816
11	15.625	689.487	92.741	103.278	93.738
11.125	15.75	689.479	92.413	102.858	93.318
11.25	15.875	689.472	91.609	101.986	92.446
11.375	16	689.466	90.834	101.168	91.628
11.5	16.125	689.461	89.834	100.128	90.588
11.625	16.25	689.456	88.842	98.999	89.962
11.75	16.375	689.452	88.513	98.778	89.588
11.875	16.5	689.446	89.552	99.739	90.585
12	16.625	689.44	90.629	100.769	91.579
12.125	16.75	689.436	92.009	102.102	92.912
12.25	16.875	689.43	91.445	101.477	92.287
12.375	17	689.425	90.634	100.63	91.44
12.5	17.125	689.42	89.731	99.693	90.503
12.625	17.25	689.416	88.69	98.614	89.424
12.75	17.375	689.412	88.435	98.496	89.755
12.875	17.5	689.405	89.354	99.741	90.551
13	17.625	689.4	91.179	101.355	92.165
13.125	17.75	689.392	92.092	102.178	92.988
13.25	17.875	689.387	91.737	101.776	92.586
13.375	18	689.385	91.404	101.434	92.244
13.5	18.125	689.383	91	101.021	91.831
13.625	18.25	689.38	90.73	100.904	91.959
13.75	18.375	689.377	90.53	100.906	91.716
13.875	18.5	689.373	91.96	102.519	93.627
14	18.625	689.369	93.189	103.96	94.77
14.125	18.75	689.363	94.254	104.9	95.71
14.25	18.875	689.357	93.992	104.558	95.368
14.375	19	689.351	93.024	103.516	94.326
14.5	19.125	689.346	92.134	102.483	93.293
14.625	19.25	689.344	91.726	102.086	92.896
14.75	19.375	689.338	90.954	101.221	92.031
14.875	19.5	689.332	92.076	102.253	93.063
15	19.625	689.326	93.224	103.308	94.118
15.125	19.75	689.32	94.456	104.469	95.279
15.25	19.875	689.315	94.276	104.251	95.061

Case 0009

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
15.375	20	689.311	93.717	103.663	94.473
15.5	20.125	689.302	92.002	101.673	92.483
15.625	20.25	689.296	90.917	100.563	91.373
15.75	20.375	689.292	90.583	100.213	91.023
15.875	20.5	689.288	91.75	101.68	92.638
16	20.625	689.28	93.426	103.407	94.217
16.125	20.75	689.273	94.429	104.333	95.143
16.25	20.875	689.267	93.94	103.792	94.602
16.375	21	689.265	93.644	103.489	94.299
16.5	21.125	689.258	92.554	102.357	93.167
16.625	21.25	689.253	91.535	101.699	92.606
16.75	21.375	689.247	90.735	100.922	91.732
16.875	21.5	689.242	91.944	102.054	92.864
17	21.625	689.235	93.644	103.727	94.537
17.125	21.75	689.227	94.514	104.509	95.319
17.25	21.875	689.221	94.054	103.996	94.806
17.375	22	689.217	93.329	103.203	94.053
17.5	22.125	689.213	92.558	102.106	93.256
17.625	22.25	689.208	91.579	101.498	92.665
17.75	22.375	689.204	91.201	101.098	92.248
17.875	22.5	689.198	92.274	102.229	93.379
18	22.625	689.193	94.267	104.09	95.24
18.125	22.75	689.185	95.283	105.058	96.208
18.25	22.875	689.181	95.085	104.815	95.965
18.375	23	689.175	94.202	103.891	95.041
18.5	23.125	689.169	93.149	102.79	93.94
18.625	23.25	689.162	91.986	101.599	92.749
18.75	23.375	689.159	91.729	101.313	92.463
18.875	23.5	689.155	93.097	102.641	93.791
19	23.625	689.148	94.851	104.328	95.478
19.125	23.75	689.141	95.867	105.285	96.435
19.25	23.875	689.131	94.389	103.799	95.158
19.375	24	689.123	93.122	102.683	93.833
19.5	24.125	689.118	92.316	101.844	92.994
19.625	24.25	689.113	91.329	100.876	92.165
19.75	24.375	689.108	90.666	100.307	91.457
19.875	24.5	689.103	91.647	101.233	92.383
20	24.625	689.097	92.872	102.413	93.563
20.125	24.75	689.088	92.876	102.365	93.894
20.25	24.875	689.078	91.225	100.386	91.686
20.375	25	689.07	89.608	98.828	90.27
20.5	25.125	689.065	88.597	97.924	89.224
20.625	25.25	689.061	87.764	96.942	88.242
20.75	25.375	689.056	86.954	96.104	87.404
20.875	25.5	689.051	87.93	97.047	88.347
21	25.625	689.044	89.426	98.505	89.805
21.125	25.75	689.037	90.246	99.47	90.916
21.25	25.875	689.031	89.557	98.885	90.185
21.375	26	689.026	88.375	97.67	88.97
21.5	26.125	689.021	87.187	96.451	87.751
21.625	26.25	689.017	86.241	95.486	86.786
21.75	26.375	689.012	85.483	94.953	86.385
21.875	26.5	689.009	86.818	96.375	87.675
22	26.625	689.003	88.084	97.565	88.865
22.125	26.75	688.996	88.538	97.953	89.253
22.25	26.875	688.991	88.026	97.34	88.64
22.375	27	688.986	87.007	96.448	87.748
22.5	27.125	688.981	85.903	95.306	86.606
22.625	27.25	688.973	84.312	93.479	84.779
22.75	27.375	688.969	83.863	93.011	84.311
22.875	27.5	688.964	85.037	94.15	85.45

Case 0009

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
23	27.625	688.958	86.875	96.127	87.459
23.125	27.75	688.95	87.607	96.825	88.125
23.25	27.875	688.942	86.578	95.56	87.04
23.375	28	688.934	85.002	94.044	85.554
23.5	28.125	688.928	83.801	92.795	84.305
23.625	28.25	688.923	82.708	92.139	83.677
23.75	28.375	688.919	82.246	91.651	83.161
23.875	28.5	688.916	83.963	93.306	84.816
24	28.625	688.913	86.741	96.016	87.526
24.125	28.75	688.907	88.395	97.588	89.423
24.25	28.875	688.902	88.178	97.599	89.109
24.375	29	688.896	87.31	96.657	88.409
24.5	29.125	688.892	86.491	96.005	87.515
24.625	29.25	688.888	85.926	95.431	87.323
24.75	29.375	688.884	85.606	95.422	86.932
24.875	29.5	688.882	87.31	97.058	88.568
25	29.625	688.878	89.684	99.385	91.134
25.125	29.75	688.872	91.146	100.957	92.467
25.25	29.875	688.866	90.396	100.192	91.931
25.375	30	688.862	89.802	99.643	91.153
25.5	30.125	688.858	89.032	98.895	90.677
25.625	30.25	688.852	88.095	97.668	89.178
25.75	30.375	688.848	87.53	97.048	88.558
25.875	30.5	688.845	87.79	97.262	88.772
26	30.625	688.842	88.451	97.878	89.388
26.125	30.75	688.838	88.455	97.808	89.318
26.25	30.875	688.835	88.168	97.612	89.387
26.375	31	688.831	87.454	97.108	88.618
26.5	31.125	688.827	86.598	96.19	87.7
26.625	31.25	688.824	85.86	95.489	87.144
26.75	31.375	688.821	85.601	95.33	86.84
26.875	31.5	688.818	87.168	96.813	88.323
27	31.625	688.813	88.63	98.167	89.677
27.125	31.75	688.805	89.593	99.26	90.77
27.25	31.875	688.798	88.806	98.367	89.877
27.375	1	688.79	87.377	96.378	87.888
27.5	1.125	688.785	86.3	95.549	87.367
27.625	1.25	688.781	85.199	94.709	86.219
27.75	1.375	688.775	84.098	93.539	85.049
27.875	1.5	688.77	85.234	94.663	86.173
28	1.625	688.765	87.101	96.459	87.969
28.125	1.75	688.759	88.15	97.441	88.951
28.25	1.875	688.754	87.65	96.977	88.549
28.375	2	688.752	87.241	96.619	88.129
28.5	2.125	688.75	86.767	96.135	87.645
28.625	2.25	688.745	85.822	95.435	87.119
28.75	2.375	688.741	85.157	94.887	86.397
28.875	2.5	688.737	86.449	96.105	87.615
29	2.625	688.734	88.796	98.39	89.9
29.125	2.75	688.727	89.873	99.176	90.593
29.25	2.875	688.721	89.18	98.342	89.852
29.375	3	688.716	88.094	97.219	88.729
29.5	3.125	688.711	87.059	96.455	88.076
29.625	3.25	688.705	85.508	94.48	85.99
29.75	3.375	688.7	84.669	93.612	85.122
29.875	3.5	688.695	85.976	94.885	86.395
30	3.625	688.69	88.147	97.223	88.85
30.125	3.75	688.684	89.508	98.356	90.136
30.25	3.875	688.68	89.129	97.994	89.774
30.375	4	688.672	87.489	96.273	88.053
30.5	4.125	688.667	86.509	95.36	87.14

Case 0009

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
30.625	4.25	688.661	85.209	93.995	85.775
30.75	4.375	688.658	84.885	94.064	85.893
30.875	4.5	688.656	85.92	95.095	86.875
31	4.625	688.652	86.506	95.615	87.395
31.125	4.75	688.648	88.152	97.19	88.97
31.25	4.875	688.644	87.943	97.078	88.858
31.375	5	688.641	87.253	96.802	88.591
31.5	5.125	688.637	86.506	95.99	87.77
31.625	5.25	688.633	85.71	95.114	87.211
31.75	5.375	688.63	85.2	94.84	86.62
31.875	5.5	688.627	86.818	96.37	88.15
32	5.625	688.624	89.433	98.912	90.692
32.125	5.75	688.62	90.52	99.924	91.908
32.25	5.875	688.614	89.833	99.321	91.101
32.375	6	688.609	88.761	98.251	90.031
32.5	6.125	688.605	87.806	97.341	89.121
32.625	6.25	688.603	87.56	97.079	88.859
32.75	6.375	688.599	86.897	96.366	88.212
32.875	6.5	688.596	88.481	97.937	89.717
33	6.625	688.592	89.784	99.17	90.95
33.125	6.75	688.586	91.013	100.299	92.079
33.25	6.875	688.581	90.476	99.741	91.688
33.375	7	688.576	89.502	98.873	90.653
33.5	7.125	688.571	88.351	97.618	89.272
33.625	7.25	688.569	87.859	96.989	88.769
33.75	7.375	688.565	87.217	96.314	88.094
33.875	7.5	688.562	88.734	97.782	89.562
34	7.625	688.558	90.991	99.977	91.757
34.125	7.75	688.552	92.328	101.336	93.306
34.25	7.875	688.547	91.73	100.867	92.647
34.375	8	688.543	90.904	100.077	92.007
34.5	8.125	688.54	90.405	99.713	91.493
34.625	8.25	688.538	89.884	99.306	91.316
34.75	8.375	688.536	89.678	99.312	91.092
34.875	8.5	688.532	91.049	100.587	92.367
35	8.625	688.525	92.894	102.302	94.082
35.125	8.75	688.524	95.05	104.344	95.983
35.25	8.875	688.519	94.682	103.92	95.869
35.375	9	688.513	93.561	102.717	94.497
35.5	9.125	688.505	91.589	100.253	92.193
35.625	9.25	688.496	89.468	97.81	89.652
35.75	9.375	688.487	87.675	96.06	87.84
35.875	9.5	688.479	88.038	96.405	88.185
36	9.625	688.472	89.607	97.89	89.607
Max		689.993	97.568	133.379	99.937
Min		688.472	82.246	91.651	83.161

Case 00e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
0	18.375	690	93.1	132.86	97.6
0.125	18.5	689.997	95.197	134.806	99.546
0.25	18.625	689.988	96.308	128.743	99.953
0.375	18.75	689.975	95.151	114.708	98.028
0.5	18.875	689.965	93.903	112.331	96.051
0.625	19	689.956	92.763	109.564	94.244
0.75	19.125	689.948	91.607	107.451	92.481
0.875	19.25	689.941	91.098	106.448	91.918
1	19.375	689.936	92.503	107.569	93.279
1.125	19.5	689.931	94.78	109.411	95.531
1.25	19.625	689.923	95.8	109.951	96.501
1.375	19.75	689.914	95.088	109.043	95.743
1.5	19.875	689.906	93.983	107.9	94.6
1.625	20	689.897	92.569	106.441	93.141
1.75	20.125	689.889	91.16	104.932	91.692
1.875	20.25	689.879	90.147	103.361	90.631
2	20.375	689.87	90.886	104.046	91.316
2.125	20.5	689.863	92.283	105.254	92.684
2.25	20.625	689.852	92.213	105.003	92.573
2.375	20.75	689.843	90.883	103.449	91.209
2.5	20.875	689.838	90.213	103.29	91.693
2.625	21	689.83	88.862	101.953	89.933
2.75	21.125	689.822	87.327	100.083	88.063
2.875	21.25	689.814	86.473	99.157	87.137
3	21.375	689.807	87.715	100.329	88.319
3.125	21.5	689.796	88.97	100.987	89.497
3.25	21.625	689.786	89.031	100.987	89.497
3.375	21.75	689.771	87.138	99.019	87.529
3.5	21.875	689.761	85.473	97.307	85.817
3.625	22	689.752	84.09	96.269	84.779
3.75	22.125	689.747	83.325	95.756	84.266
3.875	22.25	689.742	82.596	95.11	83.62
4	22.375	689.738	84.054	96.526	85.036
4.125	22.5	689.731	85.475	97.474	86.384
4.25	22.625	689.722	86.053	97.944	86.874
4.375	22.75	689.712	84.914	96.73	85.66
4.5	22.875	689.708	84.135	95.978	85.276
4.625	23	689.701	82.96	95.178	84.108
4.75	23.125	689.698	82.335	94.397	83.527
4.875	23.25	689.693	81.859	93.847	82.987
5	23.375	689.687	82.81	94.724	83.864
5.125	23.5	689.68	84.366	95.85	85.35
5.25	23.625	689.675	85.465	97.183	86.683
5.375	23.75	689.67	85.237	96.91	86.41
5.5	23.875	689.666	84.565	96.203	85.703
5.625	24	689.661	83.706	95.302	84.802
5.75	24.125	689.653	82.385	93.914	83.414
5.875	24.25	689.646	81.544	92.935	82.435
6	24.375	689.641	82.925	94.262	83.762
6.125	24.5	689.636	84.912	96.204	85.704
6.25	24.625	689.628	85.776	96.997	86.497

Case 00e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
6.375	24.75	689.622	85.55	96.734	86.234
6.5	24.875	689.614	84.375	95.704	85.39
6.625	25	689.608	83.232	94.684	84.184
6.75	25.125	689.6	81.859	93.238	82.738
6.875	25.25	689.594	81.247	92.616	82.116
7	25.375	689.589	82.615	93.686	83.416
7.125	25.5	689.584	84.816	95.872	86.089
7.25	25.625	689.577	86.056	97.203	87.213
7.375	25.75	689.57	85.499	96.53	86.54
7.5	25.875	689.564	84.733	95.974	85.984
7.625	26	689.557	83.611	94.729	84.739
7.75	26.125	689.552	82.718	94.096	84.24
7.875	26.25	689.548	82.637	94.054	84.064
8	26.375	689.542	84.138	95.42	85.43
8.125	26.5	689.535	86.116	97.264	87.274
8.25	26.625	689.528	87.436	98.879	88.988
8.375	26.75	689.521	87.044	98.434	88.444
8.5	26.875	689.515	86.22	97.667	87.677
8.625	27	689.512	85.677	97.068	87.078
8.75	27.125	689.507	84.895	96.388	86.398
8.875	27.25	689.504	84.943	96.39	86.4
9	27.375	689.5	86.56	97.942	87.952
9.125	27.5	689.495	88.668	100.717	90.762
9.25	27.625	689.487	89.6	101.473	91.483
9.375	27.75	689.48	88.999	100.466	90.746
9.5	27.875	689.463	85.911	96.898	87.199
9.625	28	689.449	83.035	93.578	84.126
9.75	28.125	689.44	81.264	91.603	81.903
9.875	28.25	689.434	80.489	90.792	81.092
10	28.375	689.427	81.402	91.661	81.961
10.125	28.5	689.423	83.591	93.942	84.402
10.25	28.625	689.419	85.142	95.447	85.907
10.375	28.75	689.414	84.931	95.308	86.226
10.5	28.875	689.408	84.088	94.855	85.315
10.625	29	689.399	82.651	93.088	83.548
10.75	29.125	689.393	81.543	91.923	82.383
10.875	29.25	689.386	80.756	91.162	81.84
11	29.375	689.38	82.116	92.66	83.12
11.125	29.5	689.375	83.393	94.023	84.483
11.25	29.625	689.367	82.807	93.306	83.766
11.375	29.75	689.365	82.6	93.071	83.531
11.5	29.875	689.359	81.485	91.89	82.35
11.625	30	689.353	80.187	90.484	81.229
11.75	30.125	689.349	79.574	89.914	80.724
11.875	30.25	689.345	79.204	89.46	80.27
12	30.375	689.343	81.076	91.545	82.598
12.125	30.5	689.34	82.801	93.448	84.258
12.25	30.625	689.334	84.201	94.704	85.514
12.375	30.75	689.331	84.282	94.735	85.545
12.5	1	689.328	83.717	94.113	84.923
12.625	1.125	689.324	83.106	93.736	84.734

Case 00e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
12.75	1.25	689.32	82.363	93.109	83.919
12.875	1.375	689.316	82.173	92.751	83.561
13	1.5	689.312	83.705	94.213	85.023
13.125	1.625	689.308	85.995	96.871	87.893
13.25	1.75	689.304	87.652	98.65	89.46
13.375	1.875	689.289	85.23	95.934	86.744
13.5	2	689.284	84.323	94.935	85.745
13.625	2.125	689.278	83.196	93.724	84.628
13.75	2.25	689.274	82.517	93.084	83.894
13.875	2.375	689.271	82.417	93.005	83.815
14	2.5	689.265	83.077	93.679	84.489
14.125	2.625	689.261	83.937	94.466	85.276
14.25	2.75	689.255	85.159	95.849	86.659
14.375	2.875	689.248	84.445	94.966	85.776
14.5	3	689.243	83.818	94.248	85.058
14.625	3.125	689.239	83.262	93.627	84.437
14.75	3.25	689.234	82.453	93.09	83.949
14.875	3.375	689.23	81.965	92.553	83.363
15	3.5	689.228	83.81	94.469	85.279
15.125	3.625	689.225	86.361	96.952	87.762
15.25	3.75	689.219	87.889	98.36	89.17
15.375	3.875	689.216	87.972	98.389	89.199
15.5	4	689.207	86.605	97.102	87.912
15.625	4.125	689.203	85.873	96.311	87.347
15.75	4.25	689.198	85.102	95.696	86.506
15.875	4.375	689.195	85.088	95.625	86.435
16	4.5	689.19	86.446	96.876	87.902
16.125	4.625	689.184	88.546	99.066	89.876
16.25	4.75	689.177	89.746	100.178	91.448
16.375	4.875	689.173	89.74	100.543	91.353
16.5	5	689.167	88.574	99.027	89.837
16.625	5.125	689.159	87.149	97.375	88.587
16.75	5.25	689.155	86.248	96.804	87.614
16.875	5.375	689.149	85.596	96.068	86.878
17	5.5	689.143	86.049	96.425	87.235
17.125	5.625	689.139	88.291	98.609	89.419
17.25	5.75	689.135	89.726	99.988	90.798
17.375	5.875	689.129	89.314	99.479	90.329
17.5	6	689.124	88.285	98.118	89.322
17.625	6.125	689.12	87.442	97.293	88.443
17.75	6.25	689.115	86.429	96.238	87.388
17.875	6.375	689.107	85.286	95.011	86.161
18	6.5	689.102	86.447	96.107	87.252
18.125	6.625	689.096	88.215	97.799	88.949
18.25	6.75	689.085	88.533	98.06	89.21
18.375	6.875	689.075	87.264	96.702	87.852
18.5	7	689.066	85.542	94.91	86.06
18.625	7.125	689.057	83.738	93.041	84.191
18.75	7.25	689.05	82.5	91.977	83.367
18.875	7.375	689.045	81.649	91.295	82.445
19	7.5	689.042	82.017	91.611	82.761

Case 006

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
19.125	7.625	689.038	82.78	92.537	83.868
19.25	7.75	689.034	83.852	93.677	84.827
19.375	7.875	689.026	82.586	92.43	83.58
19.5	8	689.017	80.366	89.963	81.113
19.625	8.125	689.012	79.109	88.667	79.817
19.75	8.25	689.006	77.502	87.033	78.183
19.875	8.375	688.999	76.278	85.754	76.904
20	8.5	688.994	77.436	86.866	78.016
20.125	8.625	688.988	79.114	88.368	79.648
20.25	8.75	688.984	80.429	89.742	81.08
20.375	8.875	688.977	79.679	88.983	80.283
20.5	9	688.973	78.778	88.055	79.355
20.625	9.125	688.968	77.695	87.273	78.651
20.75	9.25	688.964	76.754	86.369	77.669
20.875	9.375	688.962	76.641	86.347	77.647
21	9.5	688.958	78.366	88.197	79.497
21.125	9.625	688.955	80.829	90.611	81.911
21.25	9.75	688.952	82.574	92.314	83.614
21.375	9.875	688.948	82.574	92.272	83.572
21.5	10	688.944	81.882	91.54	82.84
21.625	10.125	688.939	81.014	91.092	82.414
21.75	10.25	688.933	79.722	89.441	80.741
21.875	10.375	688.925	78.772	88.39	79.69
22	10.5	688.918	79.611	89.345	80.645
22.125	10.625	688.913	81.747	91.406	82.706
22.25	10.75	688.908	83.208	92.825	84.586
22.375	10.875	688.9	82.444	92.394	83.694
22.5	11	688.893	81.245	91.111	82.649
22.625	11.125	688.885	79.762	89.619	80.919
22.75	11.25	688.882	79.181	89.054	80.748
22.875	11.375	688.878	78.949	89.145	80.445
23	11.5	688.872	80.318	90.465	81.765
23.125	11.625	688.866	82.085	92.093	83.393
23.25	11.75	688.859	83.495	93.184	84.664
23.375	11.875	688.854	83.185	92.843	84.701
23.5	12	688.845	81.697	91.513	83.023
23.625	12.125	688.837	80.218	89.832	81.342
23.75	12.25	688.831	79.068	88.674	80.428
23.875	12.375	688.825	78.544	88.379	80.185
24	12.5	688.82	80.311	90.245	81.755
24.125	12.625	688.813	82.834	92.587	84.097
24.25	12.75	688.807	84.779	94.554	86.37
24.375	12.875	688.802	84.541	94.441	85.951
24.5	13	688.799	84.148	94.113	85.845
24.625	13.125	688.796	83.681	93.796	85.306
24.75	13.25	688.793	83.049	93.061	84.571
24.875	13.375	688.789	82.852	92.776	84.286
25	13.5	688.784	84.582	94.652	86.458
25.125	13.625	688.778	86.726	96.908	88.418
25.25	13.75	688.774	88.563	98.627	90.137
25.375	13.875	688.769	88.502	98.766	90.541

Case 00e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
25.5	14	688.765	87.929	97.999	89.509
25.625	14.125	688.76	87.183	97.267	88.843
25.75	14.25	688.754	86.001	95.72	87.23
25.875	14.375	688.749	85.422	95.339	86.849
26	14.5	688.741	86.726	96.442	87.952
26.125	14.625	688.733	88.905	98.713	90.368
26.25	14.75	688.725	90.073	99.843	91.353
26.375	14.875	688.716	89.214	98.784	90.294
26.5	15	688.706	87.211	96.887	88.6
26.625	15.125	688.694	84.325	93.872	85.382
26.75	15.25	688.688	83.195	92.688	84.198
26.875	15.375	688.683	82.367	91.848	83.379
27	15.5	688.675	83.14	92.607	84.117
27.125	15.625	688.668	84.694	94.059	85.569
27.25	15.75	688.658	84.979	94.235	85.745
27.375	15.875	688.652	84.331	93.535	85.045
27.5	16	688.645	82.745	91.849	83.353
27.625	16.125	688.64	81.467	90.529	82.039
27.75	16.25	688.636	80.433	89.721	81.254
27.875	16.375	688.633	80.112	89.541	81.051
28	16.5	688.628	81.393	90.771	82.281
28.125	16.625	688.623	83.496	92.823	84.333
28.25	16.75	688.617	84.901	94.185	85.86
28.375	16.875	688.611	84.341	93.732	85.242
28.5	17	688.606	83.211	92.579	84.37
28.625	17.125	688.6	81.931	91.512	83.022
28.75	17.25	688.596	80.881	90.407	81.857
28.875	17.375	688.593	80.526	89.958	81.468
29	17.5	688.586	81.762	91.194	82.704
29.125	17.625	688.583	84.377	93.761	85.271
29.25	17.75	688.573	84.934	94.173	85.683
29.375	17.875	688.566	84.326	93.501	85.011
29.5	18	688.561	83.419	92.653	84.532
29.625	18.125	688.552	81.721	91.124	82.634
29.75	18.25	688.546	80.498	89.902	81.634
29.875	18.375	688.541	80.069	89.587	81.097
30	18.5	688.539	82.325	91.863	83.712
Max		689.997	96.308	134.806	99.953
Min		688.539	76.278	85.754	76.904

Case 0609

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
0	12.625	690	93	132.76	97.5
0.125	12.75	689.993	93.948	132.951	97.691
0.25	12.875	689.986	95.785	128.018	99.228
0.375	13	689.978	96.855	116.662	99.982
0.5	13.125	689.969	96.19	114.991	98.711
0.625	13.25	689.962	95.414	112.623	97.303
0.75	13.375	689.952	93.847	110.142	95.172
0.875	13.5	689.946	92.802	108.576	94.046
1	13.625	689.941	92.431	107.9	93.61
1.125	13.75	689.934	93.558	108.518	94.638
1.25	13.875	689.928	95.487	109.932	96.482
1.375	14	689.92	96.567	110.773	97.473
1.5	14.125	689.912	96.04	110.178	96.878
1.625	14.25	689.906	95.143	109.235	95.935
1.75	14.375	689.9	94.194	108.182	94.942
1.875	14.5	689.895	93.372	106.817	94.087
2	14.625	689.889	92.939	106.346	93.616
2.125	14.75	689.884	94.251	107.451	94.881
2.25	14.875	689.876	95.879	109.365	97.91
2.375	15	689.868	96.851	110.952	98.712
2.5	15.125	689.861	96.288	109.802	97.782
2.625	15.25	689.854	95.31	108.738	96.718
2.75	15.375	689.849	94.56	107.988	95.968
2.875	15.5	689.846	94.143	107.556	95.536
3	15.625	689.842	93.861	107.212	95.202
3.125	15.75	689.837	95.254	108.012	96.522
3.25	15.875	689.83	96.935	109.589	98.099
3.375	16	689.822	97.724	110.279	98.789
3.5	16.125	689.814	96.953	109.606	98.116
3.625	16.25	689.808	96.163	108.771	97.281
3.75	16.375	689.805	95.753	108.348	96.858
3.875	16.5	689.802	95.325	108.149	96.659
4	16.625	689.797	94.931	107.759	96.269
4.125	16.75	689.791	95.857	108.187	97.097
4.25	16.875	689.783	97.275	109.481	98.411
4.375	17	689.77	95.854	107.419	96.349
4.5	17.125	689.765	95.446	106.988	95.918
4.625	17.25	689.76	94.466	105.985	94.915
4.75	17.375	689.753	93.128	104.58	93.759
4.875	17.5	689.748	92.112	103.758	92.898
5	15.5	689.744	91.512	103.068	92.208
5.125	15.625	689.739	93.521	104.663	94.163
5.25	15.75	689.732	94.606	105.696	95.196
5.375	15.875	689.726	94.028	105.125	94.625
5.5	16	689.722	93.338	104.412	93.912
5.625	16.125	689.719	92.953	104.021	93.521
5.75	16.25	689.717	92.55	103.611	93.111
5.875	16.375	689.713	92.253	103.294	92.794
6	10.625	689.708	93.387	104.764	94.264
6.125	10.75	689.701	94.358	105.681	95.648
6.25	10.875	689.695	93.782	105.499	94.999
6.375	11	689.686	92.385	103.398	93.28
6.5	11.125	689.681	91.248	102.602	92.102
6.625	11.25	689.676	90.248	101.571	91.071
6.75	11.375	689.674	90.308	101.732	91.232
6.875	11.5	689.668	91.386	102.747	92.247
7	11.625	689.66	92.81	103.771	93.501
7.125	11.75	689.652	93.532	104.146	94.156
7.25	11.875	689.646	92.98	103.553	93.563
7.375	12	689.64	91.879	102.464	92.662
7.5	12.125	689.635	90.793	101.523	91.533
7.625	12.25	689.629	89.66	100.352	90.362

Case 0609

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
7.75	12.375	689.623	88.805	99.557	89.904
7.875	12.5	689.615	89.366	100.21	90.22
8	12.625	689.61	91.211	102.004	92.014
8.125	12.75	689.605	92.527	103.278	93.288
8.25	12.875	689.598	91.96	102.668	92.678
8.375	13	689.591	90.764	101.519	91.692
8.5	13.125	689.585	89.546	100.415	90.425
8.625	13.25	689.58	88.345	99.167	89.177
8.75	13.375	689.574	87.717	98.336	88.346
8.875	13.5	689.568	88.583	99.15	89.16
9	13.625	689.563	90.648	101.177	91.187
9.125	13.75	689.558	92.014	102.509	92.519
9.25	13.875	689.554	91.973	102.552	92.673
9.375	14	689.549	91.402	101.791	92.071
9.5	14.125	689.544	90.581	100.919	91.219
9.625	14.25	689.54	89.959	100.48	90.949
9.75	14.375	689.538	90.036	100.714	91.014
9.875	14.5	689.535	91.614	102.248	92.548
10	14.625	689.53	93.681	104.264	94.564
10.125	14.75	689.525	95.013	105.385	95.845
10.25	14.875	689.52	94.911	105.578	96.222
10.375	15	689.514	94.15	104.925	95.385
10.5	15.125	689.509	93.473	104.198	94.658
10.625	15.25	689.504	92.76	103.498	93.958
10.75	15.375	689.499	92.269	102.95	93.41
10.875	15.5	689.494	92.789	103.259	93.719
11	15.625	689.486	92.798	103.182	93.642
11.125	15.75	689.478	92.433	102.731	93.191
11.25	15.875	689.471	91.55	101.786	92.246
11.375	16	689.466	90.703	101.059	91.561
11.5	16.125	689.461	89.613	99.964	90.424
11.625	16.25	689.456	88.537	98.966	89.566
11.75	16.375	689.452	88.19	98.364	89.174
11.875	16.5	689.446	89.357	99.447	90.257
12	16.625	689.44	90.555	100.591	91.404
12.125	16.75	689.436	92.074	102.066	92.876
12.25	16.875	689.43	91.45	101.383	92.193
12.375	17	689.425	90.559	100.457	91.267
12.5	17.125	689.42	89.572	99.437	90.247
12.625	17.25	689.415	88.438	98.59	89.408
12.75	17.375	689.412	88.167	98.197	89.007
12.875	17.5	689.405	89.203	99.153	90.117
13	17.625	689.4	91.219	101.251	92.061
13.125	17.75	689.392	92.218	102.165	92.975
13.25	17.875	689.387	91.82	101.725	92.535
13.375	18	689.385	91.453	101.373	92.377
13.5	18.125	689.382	91.009	101.159	92.301
13.625	18.25	689.38	90.713	101.18	91.99
13.75	18.375	689.376	90.494	100.985	92.18
13.875	18.5	689.373	92.066	102.878	93.688
14	18.625	689.369	93.411	104.13	94.94
14.125	18.75	689.362	94.562	105.148	95.958
14.25	18.875	689.357	94.256	104.678	95.21
14.375	19	689.351	93.177	103.346	94.42
14.5	19.125	689.345	92.19	102.563	93.373
14.625	19.25	689.343	91.741	102.099	92.909
14.75	19.375	689.337	90.891	101.131	91.866
14.875	19.5	689.331	92.131	102.206	93.016
15	19.625	689.325	93.388	103.372	94.182
15.125	19.75	689.319	94.729	104.644	95.454
15.25	19.875	689.314	94.517	104.447	95.257
15.375	20	689.31	93.892	103.792	94.602

Case 0609

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
15.5	20.125	689.301	91.988	101.31	92.12
15.625	20.25	689.295	90.794	100.331	91.477
15.75	20.375	689.291	90.432	100.278	91.088
15.875	20.5	689.287	91.727	101.525	92.335
16	20.625	689.279	93.576	103.3	94.11
16.125	20.75	689.272	94.664	104.5	95.499
16.25	20.875	689.266	94.107	104.064	94.874
16.375	21	689.264	93.779	103.727	94.537
16.5	21.125	689.257	92.568	102.755	93.565
16.625	21.25	689.252	91.446	101.573	92.383
16.75	21.375	689.246	90.571	100.627	91.437
16.875	21.5	689.241	91.917	101.961	92.771
17	21.625	689.234	93.793	103.834	94.7
17.125	21.75	689.226	94.736	104.734	95.544
17.25	21.875	689.22	94.212	104.153	94.963
17.375	22	689.215	93.407	103.276	94.126
17.5	22.125	689.211	92.554	102.093	93.243
17.625	22.25	689.206	91.474	101.199	92.441
17.75	22.375	689.202	91.061	101.088	92.333
17.875	22.5	689.196	92.256	102.269	93.419
18	22.625	689.191	94.457	104.378	95.528
18.125	22.75	689.184	95.561	105.383	96.533
18.25	22.875	689.179	95.328	104.938	96.049
18.375	23	689.173	94.341	104.036	95.186
18.5	23.125	689.167	93.17	102.813	93.963
18.625	23.25	689.161	91.884	101.464	92.614
18.75	23.375	689.157	91.604	101.422	92.61
18.875	23.5	689.154	93.121	102.918	94.068
19	23.625	689.147	95.057	104.749	95.899
19.125	23.75	689.139	96.157	105.566	96.703
19.25	23.875	689.129	94.485	103.805	94.955
19.375	24	689.121	93.077	102.422	93.572
19.5	24.125	689.116	92.189	101.514	93.047
19.625	24.25	689.111	91.105	100.666	91.816
19.75	24.375	689.106	90.385	99.905	91.055
19.875	24.5	689.101	91.491	100.97	92.252
20	24.625	689.095	92.857	102.438	93.807
20.125	24.75	689.086	92.863	102.429	93.709
20.25	24.875	689.076	91.038	99.928	91.228
20.375	25	689.068	89.267	98.139	89.439
20.5	25.125	689.063	88.168	97.068	88.54
20.625	25.25	689.059	87.266	96.321	87.621
20.75	25.375	689.055	86.402	95.434	86.734
20.875	25.5	689.049	87.526	96.531	87.831
21	25.625	689.043	89.223	98.255	89.711
21.125	25.75	689.036	90.15	99.384	90.904
21.25	25.875	689.03	89.393	98.795	90.095
21.375	26	689.024	88.093	97.461	88.761
21.5	26.125	689.019	86.793	96.123	87.423
21.625	26.25	689.015	85.761	95.067	86.367
21.75	26.375	689.011	84.948	94.377	85.912
21.875	26.5	689.008	86.455	95.878	86.916
22	26.625	689.002	87.894	97.136	88.595
22.125	26.75	688.995	88.414	97.75	89.05
22.25	26.875	688.99	87.855	97.149	88.449
22.375	27	688.985	86.736	95.996	87.296
22.5	27.125	688.979	85.526	94.852	86.244
22.625	27.25	688.972	83.796	93.15	84.45
22.75	27.375	688.968	83.322	92.563	83.796
22.875	27.5	688.963	84.669	93.803	85.103
23	27.625	688.957	86.745	95.956	87.342
23.125	27.75	688.949	87.574	96.795	88.095

Case 0609

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
23.25	27.875	688.941	86.436	95.415	86.895
23.375	28	688.933	84.705	93.741	85.332
23.5	28.125	688.927	83.401	92.458	83.968
23.625	28.25	688.923	82.219	91.434	83.038
23.75	28.375	688.919	81.735	90.995	82.505
23.875	28.5	688.916	83.68	93.195	84.705
24	28.625	688.913	86.788	96.213	87.723
24.125	28.75	688.907	88.618	97.915	89.425
24.25	28.875	688.901	88.354	97.833	89.419
24.375	29	688.895	87.37	96.804	88.314
24.5	29.125	688.891	86.456	96.086	87.656
24.625	29.25	688.887	85.831	95.466	86.976
24.75	29.375	688.884	85.481	95.051	86.561
24.875	29.5	688.881	87.38	97.216	88.726
25	29.625	688.877	90.012	99.733	91.243
25.125	29.75	688.871	91.605	101.637	93.193
25.25	29.875	688.865	90.742	100.719	92.229
25.375	30	688.861	90.068	99.862	91.364
25.5	30.125	688.856	89.198	98.917	90.427
25.625	30.25	688.851	88.144	97.628	89.138
25.75	30.375	688.847	87.513	96.938	88.448
25.875	30.5	688.844	87.803	97.273	88.783
26	30.625	688.841	88.537	97.958	89.468
26.125	30.75	688.837	88.534	97.883	89.608
26.25	30.875	688.833	88.212	97.737	89.518
26.375	31	688.83	87.415	97.146	88.656
26.5	31.125	688.826	86.465	96.146	87.911
26.625	31.25	688.823	85.65	95.516	87.026
26.75	31.375	688.82	85.37	95.181	86.691
26.875	31.5	688.817	87.131	96.808	88.076
27	31.625	688.811	88.762	98.165	90.084
27.125	31.75	688.803	89.818	99.474	90.984
27.25	31.875	688.796	88.92	98.459	89.969
27.375	1	688.789	87.319	96.264	87.923
27.5	1.125	688.784	86.122	95.242	86.983
27.625	1.25	688.779	84.904	94.229	85.802
27.75	1.375	688.773	83.699	93.021	84.531
27.875	1.5	688.769	84.995	94.255	85.765
28	1.625	688.764	87.094	96.222	87.535
28.125	1.75	688.757	88.265	97.218	88.888
28.25	1.875	688.752	87.7	96.851	88.361
28.375	2	688.75	87.243	96.385	87.895
28.5	2.125	688.748	86.715	95.976	87.748
28.625	2.25	688.744	85.663	95.253	86.969
28.75	2.375	688.74	84.93	94.454	85.601
28.875	2.5	688.736	86.386	95.711	87.562
29	2.625	688.732	89.007	98.455	89.739
29.125	2.75	688.726	90.19	99.346	90.856
29.25	2.875	688.72	89.393	98.5	90.01
29.375	3	688.714	88.168	97.447	89.223
29.5	3.125	688.71	87.009	96.5	88.01
29.625	3.25	688.703	85.282	94.121	85.565
29.75	3.375	688.698	84.361	93.115	84.625
29.875	3.5	688.694	85.846	94.713	86.355
30	3.625	688.689	88.283	97.179	88.739
30.125	3.75	688.683	89.787	98.409	90.189
30.25	3.875	688.678	89.34	98.117	90.05
30.375	4	688.67	87.479	96.063	87.843
30.5	4.125	688.665	86.384	95.07	86.942
30.625	4.25	688.659	84.946	93.813	85.695
30.75	4.375	688.656	84.594	93.54	85.324
30.875	4.5	688.654	85.768	94.675	86.455

Case 0609

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
31	4.625	688.65	86.435	95.289	87.069
31.125	4.75	688.647	88.281	97.424	89.371
31.25	4.875	688.643	88.037	97.257	89.037
31.375	5	688.639	87.26	96.695	88.59
31.5	5.125	688.636	86.424	95.901	87.681
31.625	5.25	688.631	85.541	94.918	86.698
31.75	5.375	688.628	84.98	94.365	86.17
31.875	5.5	688.625	86.804	96.133	87.913
32	5.625	688.622	89.73	98.992	90.772
32.125	5.75	688.618	90.922	100.38	92.233
32.25	5.875	688.612	90.115	99.653	91.433
32.375	6	688.607	88.894	97.998	89.804
32.5	6.125	688.603	87.817	96.898	88.678
32.625	6.25	688.601	87.542	96.925	88.762
32.75	6.375	688.597	86.801	96.042	87.8
32.875	6.5	688.594	88.581	97.739	89.519
33	6.625	688.59	90.034	99.495	91.323
33.125	6.75	688.584	91.386	100.512	92.292
33.25	6.875	688.579	90.76	100.117	91.925
33.375	7	688.574	89.652	98.972	90.752
33.5	7.125	688.569	88.353	97.602	89.382
33.625	7.25	688.567	87.802	96.896	88.669
33.75	7.375	688.563	87.085	96.126	87.906
33.875	7.5	688.56	88.794	97.743	89.523
34	7.625	688.556	91.319	100.209	92.208
34.125	7.75	688.55	92.788	101.828	94.053
34.25	7.875	688.544	92.086	101.475	93.053
34.375	8	688.54	91.143	100.285	92.065
34.5	8.125	688.538	90.58	99.738	91.942
34.625	8.25	688.536	89.994	99.553	91.289
34.75	8.375	688.534	89.761	99.258	91.038
34.875	8.5	688.53	91.292	100.728	92.813
35	8.625	688.523	93.336	102.957	94.737
35.125	8.75	688.521	95.749	105.309	96.827
35.25	8.875	688.517	95.302	104.505	96.046
35.375	9	688.51	94.006	102.984	95.081
35.5	9.125	688.502	91.74	100.23	91.74
35.625	9.25	688.493	89.34	97.556	89.34
35.75	9.375	688.485	87.341	95.489	87.341
35.875	9.5	688.477	87.789	95.746	87.789
36	9.625	688.47	89.581	97.743	89.693
Max		689.993	97.724	132.951	99.982
Min		688.47	81.735	90.995	82.505

Case 06e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
0	18.375	690	92.9	132.66	97.4
0.125	18.5	689.997	95.185	134.782	99.522
0.25	18.625	689.988	96.394	128.758	99.968
0.375	18.75	689.974	95.127	114.553	97.873
0.5	18.875	689.964	93.773	112.022	95.742
0.625	19	689.955	92.541	109.131	93.811
0.75	19.125	689.947	91.297	106.909	91.939
0.875	19.25	689.941	90.763	105.893	91.363
1	19.375	689.935	92.311	107.167	92.877
1.125	19.5	689.931	94.795	109.22	95.34
1.25	19.625	689.922	95.903	109.859	96.409
1.375	19.75	689.913	95.121	108.891	95.591
1.5	19.875	689.905	93.917	107.657	94.357
1.625	20	689.896	92.383	106.088	92.788
1.75	20.125	689.888	90.864	104.478	91.238
1.875	20.25	689.879	89.789	102.857	90.127
2	20.375	689.869	90.637	103.664	90.934
2.125	20.5	689.863	92.176	105.022	92.452
2.25	20.625	689.852	92.111	105.365	93.983
2.375	20.75	689.842	90.673	104.196	91.956
2.5	20.875	689.838	89.951	103.166	91.085
2.625	21	689.83	88.5	101.194	89.174
2.75	21.125	689.822	86.864	99.49	87.47
2.875	21.25	689.814	85.983	98.586	86.566
3	21.375	689.808	87.384	99.92	87.91
3.125	21.5	689.797	88.798	100.741	89.251
3.25	21.625	689.786	88.886	100.772	89.282
3.375	21.75	689.772	86.846	98.664	87.174
3.5	21.875	689.762	85.068	97.13	85.806
3.625	22	689.753	83.611	95.746	84.256
3.75	22.125	689.748	82.804	94.901	83.411
3.875	22.25	689.743	82.053	94.503	83.166
4	22.375	689.74	83.669	96.222	84.732
4.125	22.5	689.732	85.249	97.317	86.227
4.25	22.625	689.724	85.903	97.848	86.778
4.375	22.75	689.714	84.675	96.705	85.668
4.5	22.875	689.709	83.834	95.858	84.788
4.625	23	689.703	82.569	94.536	83.466
4.75	23.125	689.7	81.897	93.756	82.886
4.875	23.25	689.694	81.402	93.194	82.334
5	23.375	689.688	82.473	94.198	83.338
5.125	23.5	689.682	84.197	95.755	85.255
5.25	23.625	689.677	85.406	96.907	86.407
5.375	23.75	689.672	85.159	96.62	86.12
5.5	23.875	689.667	84.428	95.857	85.357
5.625	24	689.662	83.495	94.935	84.782
5.75	24.125	689.655	82.066	93.275	82.775
5.875	24.25	689.647	81.172	92.461	81.961
6	24.375	689.643	82.705	93.943	83.443
6.125	24.5	689.638	84.889	96.083	85.583
6.25	24.625	689.629	85.836	96.962	86.462

Case 06e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
6.375	24.75	689.624	85.586	97.07	86.57
6.5	24.875	689.616	84.298	95.706	85.206
6.625	25	689.609	83.054	94.458	84.107
6.75	25.125	689.602	81.566	92.744	82.244
6.875	25.25	689.595	80.92	92.217	82.078
7	25.375	689.59	82.444	93.773	83.503
7.125	25.5	689.585	84.866	95.822	85.832
7.25	25.625	689.578	86.219	97.198	87.398
7.375	25.75	689.571	85.591	96.63	86.64
7.5	25.875	689.565	84.747	95.906	86.166
7.625	26	689.558	83.518	94.696	84.706
7.75	26.125	689.553	82.548	93.892	84.198
7.875	26.25	689.549	82.47	93.998	84.008
8	26.375	689.543	84.131	95.5	85.51
8.125	26.5	689.536	86.298	97.509	87.519
8.25	26.625	689.529	87.723	99.077	89.309
8.375	26.75	689.522	87.263	98.668	88.678
8.5	26.875	689.516	86.341	97.927	88.142
8.625	27	689.512	85.741	97.456	87.466
8.75	27.125	689.508	84.88	96.311	86.321
8.875	27.25	689.505	84.933	96.316	86.326
9	27.375	689.501	86.706	98.405	88.415
9.125	27.5	689.496	89.005	100.577	90.587
9.25	27.625	689.488	89.991	101.854	92.043
9.375	27.75	689.48	89.301	100.557	90.837
9.5	27.875	689.463	85.867	96.63	86.93
9.625	28	689.449	82.717	93.015	83.315
9.75	28.125	689.44	80.798	90.962	81.367
9.875	28.25	689.434	79.975	90.21	80.51
10	28.375	689.427	81.017	91.21	81.51
10.125	28.5	689.423	83.44	93.447	83.907
10.25	28.625	689.419	85.153	95.621	86.135
10.375	28.75	689.414	84.92	95.386	85.846
10.5	28.875	689.408	83.996	94.408	84.868
10.625	29	689.4	82.426	92.763	83.223
10.75	29.125	689.393	81.224	91.8	82.261
10.875	29.25	689.386	80.386	90.903	81.363
11	29.375	689.381	81.91	92.348	82.808
11.125	29.5	689.376	83.33	93.693	84.153
11.25	29.625	689.368	82.694	93.2	83.66
11.375	29.75	689.365	82.471	92.945	83.405
11.5	29.875	689.36	81.255	91.716	82.464
11.625	30	689.353	79.852	90.196	80.796
11.75	30.125	689.35	79.198	89.362	80.49
11.875	30.25	689.346	78.821	89.2	80.01
12	30.375	689.344	80.893	91.227	82.037
12.125	30.5	689.341	82.798	93.165	84.207
12.25	30.625	689.335	84.337	94.883	85.693
12.375	30.75	689.332	84.421	94.909	85.719
12.5	1	689.329	83.793	94.491	85.301
12.625	1.125	689.325	83.118	93.835	84.803

Case 06e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
12.75	1.25	689.321	82.301	92.75	83.56
12.875	1.375	689.316	82.095	92.474	83.284
13	1.5	689.312	83.785	94.283	85.386
13.125	1.625	689.309	86.3	97.09	87.999
13.25	1.75	689.304	88.108	98.908	89.718
13.375	1.875	689.289	85.346	96.022	87.046
13.5	2	689.284	84.341	95.014	86.049
13.625	2.125	689.278	83.099	93.595	84.405
13.75	2.25	689.274	82.355	92.873	83.767
13.875	2.375	689.271	82.252	92.785	83.595
14	2.5	689.264	82.999	93.367	84.177
14.125	2.625	689.261	83.951	94.405	85.352
14.25	2.75	689.255	85.296	95.718	86.528
14.375	2.875	689.248	84.492	95.024	86.037
14.5	3	689.243	83.797	94.417	85.227
14.625	3.125	689.239	83.186	93.722	84.532
14.75	3.25	689.234	82.301	92.738	83.548
14.875	3.375	689.23	81.774	92.264	83.074
15	3.5	689.228	83.815	94.251	85.061
15.125	3.625	689.224	86.626	96.999	87.809
15.25	3.75	689.219	88.285	98.876	89.832
15.375	3.875	689.215	88.358	99.023	89.833
15.5	4	689.207	86.814	97.393	88.372
15.625	4.125	689.202	85.996	96.66	87.47
15.75	4.25	689.198	85.14	95.725	86.535
15.875	4.375	689.194	85.122	95.509	86.28
16	4.5	689.189	86.617	96.848	87.658
16.125	4.625	689.184	88.917	99.378	90.265
16.25	4.75	689.176	90.199	100.889	91.765
16.375	4.875	689.172	90.166	100.833	91.643
16.5	5	689.165	88.836	99.119	89.929
16.625	5.125	689.158	87.23	97.472	88.321
16.75	5.25	689.154	86.231	96.681	87.519
16.875	5.375	689.148	85.512	95.951	86.761
17	5.5	689.142	86.021	96.36	87.17
17.125	5.625	689.138	88.499	98.777	89.587
17.25	5.75	689.134	90.074	100.29	91.1
17.375	5.875	689.128	89.598	99.715	90.926
17.5	6	689.122	88.445	98.543	89.516
17.625	6.125	689.118	87.508	97.388	88.538
17.75	6.25	689.113	86.385	96.205	87.355
17.875	6.375	689.106	85.125	94.852	86.002
18	6.5	689.101	86.422	96.08	87.23
18.125	6.625	689.095	88.379	97.858	89.008
18.25	6.75	689.084	88.704	98.2	89.35
18.375	6.875	689.073	87.275	96.678	87.828
18.5	7	689.064	85.369	94.698	85.848
18.625	7.125	689.055	83.396	92.696	84
18.75	7.25	689.049	82.06	91.526	82.939
18.875	7.375	689.044	81.157	90.808	81.958
19	7.5	689.041	81.601	91.378	82.528

Case 06e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
19.125	7.625	689.038	82.475	92.184	83.334
19.25	7.75	689.033	83.697	93.422	84.833
19.375	7.875	689.025	82.314	91.976	83.126
19.5	8	689.016	79.893	89.247	80.397
19.625	8.125	689.011	78.528	88.005	79.411
19.75	8.25	689.005	76.787	85.923	77.073
19.875	8.375	688.999	75.494	84.715	76.018
20	8.5	688.994	76.84	86.059	77.209
20.125	8.625	688.988	78.753	87.809	79.089
20.25	8.75	688.983	80.232	89.463	80.99
20.375	8.875	688.977	79.417	88.815	80.115
20.5	9	688.973	78.431	87.795	79.095
20.625	9.125	688.968	77.249	86.859	78.394
20.75	9.25	688.964	76.227	85.871	77.171
20.875	9.375	688.962	76.119	85.732	77.032
21	9.5	688.959	78.056	87.807	79.107
21.125	9.625	688.955	80.803	90.503	81.803
21.25	9.75	688.952	82.739	92.396	83.696
21.375	9.875	688.948	82.731	92.659	84.123
21.5	10	688.944	81.957	92.013	83.326
21.625	10.125	688.939	80.99	91.068	82.368
21.75	10.25	688.933	79.558	89.243	80.543
21.875	10.375	688.925	78.523	88.099	79.399
22	10.5	688.918	79.484	89.3	80.728
22.125	10.625	688.913	81.865	91.709	83.009
22.25	10.75	688.908	83.478	93.234	84.534
22.375	10.875	688.9	82.603	92.598	83.998
22.5	11	688.893	81.256	90.999	82.299
22.625	11.125	688.884	79.607	89.473	80.854
22.75	11.25	688.881	78.968	88.871	80.171
22.875	11.375	688.878	78.72	88.864	80.219
23	11.5	688.872	80.266	90.388	81.688
23.125	11.625	688.866	82.235	92.206	83.506
23.25	11.75	688.859	83.784	93.425	84.905
23.375	11.875	688.854	83.414	93.209	84.744
23.5	12	688.845	81.733	91.361	82.871
23.625	12.125	688.837	80.084	89.726	81.236
23.75	12.25	688.831	78.818	88.614	80.434
23.875	12.375	688.825	78.262	88.187	79.697
24	12.5	688.819	80.265	90.022	82.008
24.125	12.625	688.813	83.079	93.069	84.579
24.25	12.75	688.807	85.212	95.034	86.832
24.375	12.875	688.801	84.893	94.954	86.464
24.5	13	688.798	84.433	94.391	85.901
24.625	13.125	688.795	83.899	93.857	85.767
24.75	13.25	688.792	83.186	93.202	84.712
24.875	13.375	688.787	82.957	92.876	84.386
25	13.5	688.783	84.874	94.745	86.601
25.125	13.625	688.777	87.231	97.258	88.768
25.25	13.75	688.772	89.24	99.316	91.352
25.375	13.875	688.767	89.123	99.574	91.084

Case 06e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
25.5	14	688.763	88.459	98.5	90.338
25.625	14.125	688.758	87.601	97.414	88.924
25.75	14.25	688.752	86.247	95.734	87.53
25.875	14.375	688.747	85.578	95.23	86.74
26	14.5	688.739	87.008	96.557	88.219
26.125	14.625	688.731	89.398	99.028	90.538
26.25	14.75	688.722	90.634	100.219	91.922
26.375	14.875	688.713	89.578	99.13	90.64
26.5	15	688.703	87.291	96.65	88.431
26.625	15.125	688.691	84.052	93.365	84.875
26.75	15.25	688.686	82.805	92.172	83.801
26.875	15.375	688.68	81.911	91.167	82.516
27	15.5	688.673	82.826	92.019	83.693
27.125	15.625	688.666	84.599	93.985	85.611
27.25	15.75	688.656	84.931	94.292	85.802
27.375	15.875	688.65	84.21	93.504	85.014
27.5	16	688.643	82.448	91.377	82.949
27.625	16.125	688.638	81.038	90.125	81.71
27.75	16.25	688.634	79.901	89.205	80.806
27.875	16.375	688.631	79.562	88.922	80.432
28	16.5	688.626	81.029	90.337	81.847
28.125	16.625	688.621	83.404	92.546	84.013
28.25	16.75	688.616	84.983	94.042	85.552
28.375	16.875	688.61	84.35	93.617	85.199
28.5	17	688.604	83.085	92.616	84.19
28.625	17.125	688.598	81.661	90.64	82.15
28.75	17.25	688.594	80.497	89.794	81.372
28.875	17.375	688.591	80.114	89.222	80.693
29	17.5	688.584	81.545	90.609	82.128
29.125	17.625	688.581	84.485	93.526	85.036
29.25	17.75	688.571	85.093	94.051	85.561
29.375	17.875	688.565	84.397	93.674	85.216
29.5	18	688.559	83.375	92.915	84.445
29.625	18.125	688.55	81.476	90.882	82.392
29.75	18.25	688.544	80.13	89.445	80.955
29.875	18.375	688.539	79.687	89.252	80.764
30	18.5	688.537	82.24	91.711	83.878
Max		689.997	96.394	134.782	99.968
Min		688.537	75.494	84.715	76.018

Case 1809

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
0	12.875	690	92	131.76	96.5
0.125	13	689.994	93.243	132.14	96.88
0.25	13.125	689.987	95.544	127.622	98.832
0.375	13.25	689.978	96.873	116.475	99.795
0.5	13.375	689.968	96.062	114.557	98.277
0.625	13.5	689.962	95.123	111.932	96.612
0.75	13.625	689.951	93.248	109.102	94.132
0.875	13.75	689.945	92.019	107.367	92.837
1	13.875	689.94	91.614	106.672	92.382
1.125	14	689.934	93.072	107.642	93.762
1.25	14.125	689.928	95.47	109.545	96.095
1.375	14.25	689.92	96.791	110.647	97.347
1.5	14.375	689.912	96.127	109.933	96.633
1.625	14.5	689.906	95.026	108.798	95.498
1.75	14.625	689.899	93.874	107.554	94.314
1.875	14.75	689.894	92.887	106.725	94.213
2	14.875	689.888	92.389	106.36	93.63
2.125	15	689.884	94.038	107.442	94.8
2.25	15.125	689.876	96.054	109.544	97.192
2.375	15.25	689.868	97.226	110.488	98.248
2.5	15.375	689.861	96.507	109.465	97.445
2.625	15.5	689.854	95.294	108.109	96.08
2.75	15.625	689.849	94.376	107.146	95.126
2.875	15.75	689.846	93.869	106.831	94.824
3	15.875	689.841	93.535	106.457	94.447
3.125	16	689.837	95.263	107.481	95.991
3.25	16.125	689.83	97.322	109.477	98.357
3.375	16.25	689.821	98.249	110.665	99.175
3.5	16.375	689.812	97.26	109.619	98.435
3.625	16.5	689.807	96.276	108.885	97.395
3.75	16.625	689.804	95.771	108.33	96.56
3.875	16.75	689.801	95.245	107.592	96.631
4	16.875	689.796	94.765	107.488	95.492
4.125	17	689.79	95.918	107.67	96.58
4.25	17.125	689.782	97.653	109.381	98.587
4.375	17.25	689.769	95.854	107.089	96.019
4.5	17.375	689.764	95.352	106.621	95.696
4.625	17.5	689.759	94.152	105.546	94.476
4.75	17.625	689.752	92.529	103.745	92.999
4.875	17.75	689.748	91.305	102.614	91.754
5	15.5	689.743	90.611	101.896	91.035
5.125	15.625	689.738	93.167	103.915	93.167
5.25	15.75	689.732	94.537	105.177	94.985
5.375	15.875	689.726	93.832	104.667	94.035
5.5	16	689.721	92.99	103.811	93.509
5.625	16.125	689.719	92.521	103.533	93.033
5.75	16.25	689.717	92.03	103.176	92.864
5.875	16.375	689.713	91.688	102.985	92.485
6	10.625	689.708	93.134	104.551	94.266
6.125	10.75	689.701	94.351	105.928	95.463
6.25	10.875	689.694	93.64	105.33	94.982
6.375	11	689.686	91.928	102.873	92.373
6.5	11.125	689.68	90.551	101.498	90.998
6.625	11.25	689.676	89.347	100.274	89.774
6.75	11.375	689.674	89.434	100.264	89.695
6.875	11.5	689.668	90.838	101.865	91.568
7	11.625	689.661	92.665	103.573	93.303
7.125	11.75	689.652	93.574	104.019	93.964
7.25	11.875	689.646	92.888	103.504	93.664
7.375	12	689.64	91.533	102.113	92.123
7.5	12.125	689.635	90.213	101.046	91.197
7.625	12.25	689.629	88.85	99.76	89.77

Case 1809

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
7.75	12.375	689.623	87.858	98.692	88.702
7.875	12.5	689.616	88.657	99.307	89.317
8	12.625	689.611	90.994	101.383	91.325
8.125	12.75	689.605	92.638	103.174	93.253
8.25	12.875	689.599	91.927	102.49	92.5
8.375	13	689.592	90.448	101.23	91.299
8.5	13.125	689.586	88.959	99.744	89.754
8.625	13.25	689.58	87.507	98.036	88.011
8.75	13.375	689.575	86.781	97.168	87.178
8.875	13.5	689.569	87.948	98.519	88.554
9	13.625	689.564	90.564	100.967	90.965
9.125	13.75	689.559	92.265	102.626	92.636
9.25	13.875	689.555	92.2	102.539	92.549
9.375	14	689.55	91.479	101.928	92.217
9.5	14.125	689.545	90.454	100.857	91.554
9.625	14.25	689.541	89.687	100.437	90.751
9.75	14.375	689.539	89.787	100.535	90.835
9.875	14.5	689.535	91.761	102.456	92.756
10	14.625	689.531	94.32	104.959	95.381
10.125	14.75	689.525	95.931	106.456	96.916
10.25	14.875	689.52	95.759	106.293	97.197
10.375	15	689.513	94.751	105.622	96.082
10.5	15.125	689.508	93.878	104.657	94.965
10.625	15.25	689.504	92.972	103.515	93.822
10.75	15.375	689.499	92.347	102.77	93.606
10.875	15.5	689.493	92.988	103.671	94.131
11	15.625	689.486	92.977	103.433	93.54
11.125	15.75	689.478	92.499	102.643	93.483
11.25	15.875	689.471	91.391	101.759	92.051
11.375	16	689.466	90.345	100.588	91.296
11.5	16.125	689.461	89.009	99.407	89.793
11.625	16.25	689.456	87.706	97.852	88.483
11.75	16.375	689.452	87.318	97.243	88.053
11.875	16.5	689.447	88.866	98.63	89.275
12	16.625	689.441	90.415	99.97	90.78
12.125	16.75	689.437	92.322	101.989	93.024
12.25	16.875	689.43	91.519	101.346	92.156
12.375	17	689.425	90.402	100.385	91.466
12.5	17.125	689.42	89.176	99.412	90.222
12.625	17.25	689.415	87.784	97.707	88.225
12.75	17.375	689.412	87.474	97.086	87.896
12.875	17.5	689.406	88.858	98.488	89.373
13	17.625	689.4	91.416	101.195	92.126
13.125	17.75	689.393	92.641	102.402	93.166
13.25	17.875	689.387	92.113	101.958	92.911
13.375	18	689.385	91.649	101.822	92.788
13.5	18.125	689.382	91.089	101.401	92.211
13.625	18.25	689.38	90.718	101.284	92.28
13.75	18.375	689.376	90.442	101.221	92.095
13.875	18.5	689.373	92.416	102.997	93.698
14	18.625	689.369	94.078	104.605	95.498
14.125	18.75	689.362	95.45	105.722	96.437
14.25	18.875	689.356	94.999	105.338	96.265
14.375	19	689.349	93.588	103.112	93.884
14.5	19.125	689.344	92.323	101.791	92.601
14.625	19.25	689.342	91.757	101.654	92.635
14.75	19.375	689.336	90.687	100.744	91.58
14.875	19.5	689.33	92.269	102.249	93.059
15	19.625	689.324	93.832	103.45	94.179
15.125	19.75	689.318	95.471	105.294	96.197
15.25	19.875	689.313	95.156	104.895	95.672
15.375	20	689.309	94.337	104.015	94.825

Case 1809

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
15.5	20.125	689.299	91.884	101.102	91.964
15.625	20.25	689.293	90.388	100.04	90.92
15.75	20.375	689.29	89.95	99.647	90.457
15.875	20.5	689.285	91.627	101.097	91.883
16	20.625	689.278	93.974	103.645	94.483
16.125	20.75	689.271	95.293	104.68	95.47
16.25	20.875	689.264	94.525	104.213	95.045
16.375	21	689.262	94.105	104.047	94.867
16.5	21.125	689.255	92.548	102.432	93.242
16.625	21.25	689.25	91.131	100.751	91.666
16.75	21.375	689.244	90.055	99.744	90.928
16.875	21.5	689.239	91.81	101.769	92.369
17	21.625	689.232	94.197	103.862	94.547
17.125	21.75	689.224	95.335	104.857	95.961
17.25	21.875	689.218	94.618	104.366	95.094
17.375	22	689.213	93.576	103.233	94.44
17.5	22.125	689.209	92.487	102.217	93.703
17.625	22.25	689.203	91.123	100.319	91.729
17.75	22.375	689.2	90.618	100.098	91.478
17.875	22.5	689.194	92.18	101.698	92.478
18	22.625	689.189	94.978	104.192	95.654
18.125	22.75	689.182	96.318	105.724	96.757
18.25	22.875	689.176	95.971	105.339	96.785
18.375	23	689.17	94.674	104.158	95
18.5	23.125	689.164	93.161	102.312	93.466
18.625	23.25	689.158	91.528	100.708	91.974
18.75	23.375	689.154	91.19	100.568	91.918
18.875	23.5	689.151	93.15	102.558	93.505
19	23.625	689.144	95.607	104.844	96.127
19.125	23.75	689.136	96.935	106.224	97.357
19.25	23.875	689.125	94.67	103.606	94.93
19.375	24	689.117	92.856	102.041	93.323
19.5	24.125	689.113	91.738	101.053	92.236
19.625	24.25	689.108	90.39	99.552	90.541
19.75	24.375	689.103	89.525	98.742	90.118
19.875	24.5	689.098	91.019	100.506	91.748
20	24.625	689.093	92.803	102.075	93.019
20.125	24.75	689.084	92.818	101.917	93.346
20.25	24.875	689.074	90.494	98.927	90.494
20.375	25	689.066	88.296	96.866	88.296
20.5	25.125	689.061	86.961	95.649	86.961
20.625	25.25	689.057	85.88	94.53	85.88
20.75	25.375	689.053	84.887	93.714	85.106
20.875	25.5	689.048	86.477	95.539	86.911
21	25.625	689.042	88.78	97.971	89.316
21.125	25.75	689.035	90.019	99.124	90.4
21.25	25.875	689.029	89.061	98.424	89.827
21.375	26	689.023	87.42	96.77	88.052
21.5	26.125	689.018	85.802	94.614	85.802
21.625	26.25	689.014	84.527	93.791	85.218
21.75	26.375	689.01	83.569	92.866	84.156
21.875	26.5	689.007	85.596	94.578	85.833
22	26.625	689.002	87.549	96.472	87.774
22.125	26.75	688.995	88.257	97.528	88.874
22.25	26.875	688.989	87.553	96.693	87.98
22.375	27	688.984	86.136	95.254	86.555
22.5	27.125	688.979	84.625	94.177	85.505
22.625	27.25	688.972	82.502	91.191	82.502
22.75	27.375	688.968	81.966	90.848	82.153
22.875	27.5	688.964	83.844	92.487	84.195
23	27.625	688.958	86.624	95.641	87.357
23.125	27.75	688.95	87.71	97.034	88.563

Case 1809

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
23.25	27.875	688.941	86.224	95.463	86.924
23.375	28	688.934	84.027	92.967	84.733
23.5	28.125	688.928	82.429	91.549	83.145
23.625	28.25	688.923	81.001	90.142	81.695
23.75	28.375	688.92	80.47	89.639	81.381
23.875	28.5	688.917	83.1	92.444	84.107
24	28.625	688.915	87.174	96.613	88.369
24.125	28.75	688.908	89.467	98.98	90.652
24.25	28.875	688.902	89.011	98.545	90.142
24.375	29	688.896	87.643	97.156	88.867
24.5	29.125	688.891	86.434	96.037	87.574
24.625	29.25	688.887	85.628	95.254	87.013
24.75	29.375	688.884	85.19	95.024	86.683
24.875	29.5	688.881	87.668	97.561	89.111
25	29.625	688.877	91.042	100.911	92.628
25.125	29.75	688.87	92.971	102.912	94.572
25.25	29.875	688.864	91.742	100.841	92.449
25.375	30	688.859	90.812	100.104	91.85
25.5	30.125	688.855	89.635	98.948	90.22
25.625	30.25	688.85	88.229	97.396	89.131
25.75	30.375	688.846	87.404	96.586	87.894
25.875	30.5	688.843	87.787	96.874	88.57
26	30.625	688.84	88.741	97.907	89.346
26.125	30.75	688.836	88.714	97.886	89.573
26.25	30.875	688.832	88.283	97.549	89.03
26.375	31	688.828	87.244	96.71	88.518
26.5	31.125	688.825	86.022	95.495	86.81
26.625	31.25	688.821	84.991	94.267	85.823
26.75	31.375	688.819	84.661	93.905	85.383
26.875	31.5	688.816	87.017	96.235	87.811
27	31.625	688.81	89.154	98.596	90.324
27.125	31.75	688.802	90.468	100.146	91.812
27.25	31.875	688.795	89.214	98.557	90.082
27.375	1	688.787	87.097	95.883	87.556
27.5	1.125	688.782	85.551	94.699	86.36
27.625	1.25	688.778	83.999	92.921	84.23
27.75	1.375	688.772	82.514	91.332	82.91
27.875	1.5	688.768	84.314	93.346	84.954
28	1.625	688.763	87.127	95.931	87.314
28.125	1.75	688.757	88.651	97.49	89.083
28.25	1.875	688.752	87.883	96.737	88.233
28.375	2	688.749	87.283	96.547	88.222
28.5	2.125	688.747	86.593	96.449	88.113
28.625	2.25	688.743	85.224	94.196	85.717
28.75	2.375	688.739	84.293	93.02	84.465
28.875	2.5	688.735	86.252	94.921	86.437
29	2.625	688.732	89.69	98.802	90.422
29.125	2.75	688.725	91.157	100.163	91.645
29.25	2.875	688.719	90.021	99.327	90.913
29.375	3	688.713	88.365	96.948	88.469
29.5	3.125	688.708	86.832	95.455	86.971
29.625	3.25	688.701	84.588	93.159	84.663
29.75	3.375	688.697	83.438	91.955	83.459
29.875	3.5	688.693	85.487	93.813	85.487
30	3.625	688.688	88.735	97.179	88.753
30.125	3.75	688.682	90.639	99.155	90.953
30.25	3.875	688.677	89.959	98.828	90.625
30.375	4	688.668	87.397	95.881	87.663
30.5	4.125	688.663	85.964	94.879	86.732
30.625	4.25	688.657	84.135	92.697	84.633
30.75	4.375	688.655	83.714	92.409	84.25
30.875	4.5	688.653	85.326	94.059	86.104

Case 1809

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
31	4.625	688.649	86.249	95.19	87.21
31.125	4.75	688.646	88.701	97.804	89.897
31.25	4.875	688.642	88.334	97.63	89.489
31.375	5	688.638	87.286	96.58	88.458
31.5	5.125	688.634	86.182	95.45	87.055
31.625	5.25	688.63	85.042	94.055	85.888
31.75	5.375	688.627	84.341	93.403	85.485
31.875	5.5	688.624	86.805	96.136	88.229
32	5.625	688.621	90.667	100.181	91.898
32.125	5.75	688.617	92.135	101.53	93.639
32.25	5.875	688.61	90.913	100.076	92.179
32.375	6	688.605	89.22	98.039	90.175
32.5	6.125	688.6	87.773	96.794	88.301
32.625	6.25	688.598	87.41	96.16	87.972
32.75	6.375	688.594	86.438	95.301	87.406
32.875	6.5	688.591	88.823	98.015	90.006
33	6.625	688.588	90.726	99.96	91.577
33.125	6.75	688.582	92.429	101.321	92.945
33.25	6.875	688.576	91.506	100.353	92.466
33.375	7	688.571	89.982	99.087	90.861
33.5	7.125	688.566	88.231	96.626	88.768
33.625	7.25	688.564	87.502	96.116	87.667
33.75	7.375	688.56	86.571	94.875	86.571
33.875	7.5	688.557	88.881	97.3	89.433
34	7.625	688.553	92.224	101.149	93.244
34.125	7.75	688.547	94.07	103.095	94.747
34.25	7.875	688.541	93.017	101.866	93.666
34.375	8	688.536	91.706	100.509	92.26
34.5	8.125	688.534	90.945	99.634	91.327
34.625	8.25	688.532	90.158	98.888	90.816
34.75	8.375	688.53	89.845	98.851	90.775
34.875	8.5	688.526	91.875	101.063	92.974
35	8.625	688.519	94.511	103.419	94.967
35.125	8.75	688.518	97.704	106.773	98.912
35.25	8.875	688.512	96.977	106.253	97.975
35.375	9	688.505	95.11	102.959	95.11
35.5	9.125	688.496	91.912	98.96	91.912
35.625	9.25	688.488	88.676	95.813	88.676
35.75	9.375	688.48	86.106	93.518	86.106
35.875	9.5	688.473	86.905	94.692	86.905
36	9.625	688.466	89.437	97.405	89.437
Max		689.994	98.249	132.14	99.795
Min		688.466	80.47	89.639	81.381

Case 18e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
0	18.375	690	92.3	132.06	96.8
0.125	18.5	689.997	95.105	134.668	99.408
0.25	18.625	689.988	96.581	128.757	99.967
0.375	18.75	689.974	95.017	114.098	97.418
0.5	18.875	689.963	93.377	111.168	94.888
0.625	19	689.955	91.904	107.967	92.647
0.75	19.125	689.948	90.434	106.093	91.123
0.875	19.25	689.942	89.852	105.017	90.487
1	19.375	689.936	91.803	106.684	92.394
1.125	19.5	689.932	94.853	109.299	95.419
1.25	19.625	689.923	96.2	110.166	96.716
1.375	19.75	689.913	95.219	108.99	95.69
1.5	19.875	689.905	93.741	107.475	94.175
1.625	20	689.896	91.884	105.576	92.276
1.75	20.125	689.887	90.073	103.669	90.429
1.875	20.25	689.878	88.853	102.301	89.689
2	20.375	689.869	90.024	103.47	90.74
2.125	20.5	689.863	91.963	105.225	92.663
2.25	20.625	689.853	91.912	104.949	92.519
2.375	20.75	689.843	90.175	102.947	90.707
2.5	20.875	689.839	89.312	101.986	89.98
2.625	21	689.832	87.598	100.221	88.201
2.75	21.125	689.823	85.705	98.152	86.128
2.875	21.25	689.816	84.773	97.189	85.169
3	21.375	689.81	86.633	98.993	86.983
3.125	21.5	689.8	88.491	100.388	88.898
3.25	21.625	689.789	88.647	100.527	89.461
3.375	21.75	689.775	86.194	98.454	86.964
3.5	21.875	689.765	84.112	96.293	85.257
3.625	22	689.756	82.466	94.88	83.39
3.75	22.125	689.752	81.557	93.904	82.414
3.875	22.25	689.747	80.762	93.115	81.916
4	22.375	689.744	82.817	95.442	84.069
4.125	22.5	689.737	84.843	97.063	85.973
4.25	22.625	689.728	85.699	97.853	86.783
4.375	22.75	689.718	84.213	96.179	85.109
4.5	22.875	689.714	83.2	95.299	84.524
4.625	23	689.707	81.688	93.478	82.408
4.75	23.125	689.704	80.887	92.477	81.607
4.875	23.25	689.699	80.348	91.879	81.019
5	23.375	689.693	81.757	93.421	82.77
5.125	23.5	689.687	83.945	95.368	84.868
5.25	23.625	689.682	85.452	97.079	86.822
5.375	23.75	689.677	85.145	96.947	86.447
5.5	23.875	689.672	84.244	95.87	85.274
5.625	24	689.667	83.102	94.582	84.082
5.75	24.125	689.659	81.37	92.409	81.994
5.875	24.25	689.652	80.334	91.358	80.858
6	24.375	689.648	82.292	93.275	82.775
6.125	24.5	689.643	85.02	96.307	85.981
6.25	24.625	689.634	86.174	97.518	87.018

Case 18e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
6.375	24.75	689.629	85.841	97.496	87.156
6.5	24.875	689.62	84.225	95.609	85.109
6.625	25	689.614	82.692	94.096	83.631
6.75	25.125	689.606	80.887	92.09	81.655
6.875	25.25	689.6	80.154	91.347	80.847
7	25.375	689.596	82.12	93.457	83.3
7.125	25.5	689.591	85.154	96.196	86.206
7.25	25.625	689.584	86.793	97.848	87.858
7.375	25.75	689.576	85.937	97.06	87.105
7.5	25.875	689.57	84.863	96.286	86.344
7.625	26	689.563	83.324	94.494	84.504
7.75	26.125	689.557	82.141	93.448	83.479
7.875	26.25	689.553	82.078	93.294	83.304
8	26.375	689.548	84.188	95.669	85.692
8.125	26.5	689.541	86.87	98.449	88.657
8.25	26.625	689.533	88.561	100.098	90.466
8.375	26.75	689.526	87.878	99.766	89.776
8.5	26.875	689.519	86.664	98.195	88.454
8.625	27	689.516	85.901	97.256	87.41
8.75	27.125	689.511	84.819	95.877	86.101
8.875	27.25	689.508	84.887	96.169	86.579
9	27.375	689.504	87.096	98.736	89.083
9.125	27.5	689.499	89.921	101.713	91.723
9.25	27.625	689.49	91.022	102.628	92.923
9.375	27.75	689.482	90.062	101.006	91.286
9.5	27.875	689.465	85.628	96.074	86.599
9.625	28	689.451	81.736	91.93	82.45
9.75	28.125	689.442	79.432	89.168	79.468
9.875	28.25	689.437	78.503	88.351	78.914
10	28.375	689.431	79.948	90.077	80.493
10.125	28.5	689.427	83.045	93.167	83.759
10.25	28.625	689.423	85.215	95.462	86.001
10.375	28.75	689.418	84.92	95.189	85.649
10.5	28.875	689.412	83.764	94.061	84.628
10.625	29	689.403	81.825	91.982	82.61
10.75	29.125	689.397	80.373	90.63	81.09
10.875	29.25	689.39	79.41	89.536	79.939
11	29.375	689.385	81.416	91.641	82.287
11.125	29.5	689.38	83.245	93.765	84.384
11.25	29.625	689.372	82.462	93.112	83.572
11.375	29.75	689.37	82.191	93.002	83.462
11.5	29.875	689.364	80.694	91.385	82.041
11.625	30	689.358	79.008	89.416	80.016
11.75	30.125	689.354	78.249	88.408	79.218
11.875	30.25	689.351	77.87	88.124	79.028
12	30.375	689.349	80.514	91.028	81.937
12.125	30.5	689.346	82.926	93.456	84.266
12.25	30.625	689.34	84.84	95.413	86.307
12.375	30.75	689.337	84.918	95.738	86.632
12.5	1	689.333	84.099	94.823	85.704
12.625	1.125	689.329	83.235	93.734	84.544

Case 18e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
12.75	1.25	689.325	82.201	92.847	83.718
12.875	1.375	689.32	81.95	92.55	83.36
13	1.5	689.316	84.084	94.926	85.813
13.125	1.625	689.313	87.23	98.117	88.927
13.25	1.75	689.308	89.443	100.466	91.322
13.375	1.875	689.292	85.61	96.469	87.324
13.5	2	689.286	84.32	94.899	85.709
13.625	2.125	689.28	82.757	93.173	84.021
13.75	2.25	689.277	81.838	92.225	83.035
13.875	2.375	689.273	81.739	92.033	82.841
14	2.5	689.268	82.759	93.048	83.869
14.125	2.625	689.264	83.976	94.196	85.006
14.25	2.75	689.258	85.669	96.039	86.856
14.375	2.875	689.251	84.597	95.025	85.836
14.5	3	689.246	83.71	94.03	85.08
14.625	3.125	689.242	82.944	93.406	84.255
14.75	3.25	689.237	81.848	92.229	83.044
14.875	3.375	689.233	81.223	91.527	82.585
15	3.5	689.231	83.83	94.324	85.229
15.125	3.625	689.228	87.382	97.916	88.975
15.25	3.75	689.221	89.389	100.012	91.034
15.375	3.875	689.218	89.417	100.217	91.373
15.5	4	689.209	87.331	97.701	88.712
15.625	4.125	689.204	86.261	96.696	87.331
15.75	4.25	689.199	85.159	95.349	86.166
15.875	4.375	689.196	85.135	95.345	86.398
16	4.5	689.191	87.027	97.383	88.398
16.125	4.625	689.185	89.894	100.37	91.423
16.25	4.75	689.177	91.373	101.855	92.655
16.375	4.875	689.173	91.246	101.69	92.671
16.5	5	689.166	89.418	99.567	90.527
16.625	5.125	689.158	87.286	97.261	88.282
16.75	5.25	689.154	86.012	96.141	86.974
16.875	5.375	689.148	85.121	95.131	85.86
17	5.5	689.142	85.822	95.734	86.684
17.125	5.625	689.139	88.986	99.074	90.026
17.25	5.75	689.134	90.953	101.066	91.815
17.375	5.875	689.128	90.284	100.375	91.414
17.5	6	689.122	88.766	98.065	89.394
17.625	6.125	689.118	87.557	96.956	88.05
17.75	6.25	689.113	86.125	95.537	86.789
17.875	6.375	689.106	84.551	93.844	84.857
18	6.5	689.101	86.259	95.521	86.794
18.125	6.625	689.095	88.774	97.899	88.886
18.25	6.75	689.084	89.107	98.238	89.538
18.375	6.875	689.074	87.209	96.451	87.632
18.5	7	689.065	84.784	94.024	85.271
18.625	7.125	689.056	82.363	91.696	82.932
18.75	7.25	689.05	80.784	90.304	81.548
18.875	7.375	689.046	79.772	89.363	80.544
19	7.5	689.043	80.466	90.131	81.331

Case 18e

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
19.125	7.625	689.04	81.689	91.453	82.654
19.25	7.75	689.035	83.365	93.083	84.247
19.375	7.875	689.028	81.648	91.155	82.346
19.5	8	689.019	78.663	87.988	79.173
19.625	8.125	689.014	77.001	86.555	77.761
19.75	8.25	689.008	74.904	83.591	74.904
19.875	8.375	689.003	73.455	82.346	73.537
20	8.5	688.998	75.384	84.58	75.771
20.125	8.625	688.993	77.999	87.344	78.659
20.25	8.75	688.988	79.957	89.286	80.588
20.375	8.875	688.982	78.939	88.439	79.758
20.5	9	688.978	77.703	87.423	78.739
20.625	9.125	688.973	76.237	85.523	76.828
20.75	9.25	688.969	74.984	84.274	75.574
20.875	9.375	688.966	74.897	84.617	75.903
21	9.5	688.964	77.458	87.108	78.542
21.125	9.625	688.96	81.025	90.769	82.619
21.25	9.75	688.957	83.501	93.712	85.1
21.375	9.875	688.953	83.448	93.695	85.508
21.5	10	688.948	82.411	92.48	83.835
21.625	10.125	688.943	81.137	90.699	82.559
21.75	10.25	688.937	79.278	88.896	80.562
21.875	10.375	688.929	77.983	87.587	79.04
22	10.5	688.922	79.307	88.935	80.456
22.125	10.625	688.917	82.395	92.189	83.826
22.25	10.75	688.912	84.422	94.455	85.959
22.375	10.875	688.904	83.168	93.007	84.52
22.5	11	688.896	81.361	91.01	82.579
22.625	11.125	688.888	79.214	88.871	80.373
22.75	11.25	688.885	78.405	88.283	79.8
22.875	11.375	688.881	78.121	88.084	79.267
23	11.5	688.876	80.203	89.937	81.354
23.125	11.625	688.87	82.758	92.562	84.109
23.25	11.75	688.863	84.684	94.384	85.942
23.375	11.875	688.857	84.102	93.808	85.514
23.5	12	688.848	81.816	91.607	83.441
23.625	12.125	688.839	79.665	89.556	81.27
23.75	12.25	688.834	78.075	87.889	79.492
23.875	12.375	688.828	77.459	87.336	79.073
24	12.5	688.823	80.195	90.118	81.741
24.125	12.625	688.816	83.861	93.676	85.25
24.25	12.75	688.81	86.501	96.223	87.817
24.375	12.875	688.803	85.873	95.554	87.158
24.5	13	688.8	85.191	94.972	86.585
24.625	13.125	688.797	84.45	94.318	85.885
24.75	13.25	688.793	83.488	93.291	84.776
24.875	13.375	688.789	83.166	93.135	84.846
25	13.5	688.785	85.636	95.696	87.271
25.125	13.625	688.778	88.598	98.682	90.308
25.25	13.75	688.773	91.077	101.271	92.876
25.375	13.875	688.767	90.753	101.052	92.656

Case 18e

FINAL

Days after Scram	Day in July / August	Elevation (ft)	Natural Temp (F)	UHS Inlet Temp (F)	UHS Outlet Temp (F)
25.5	14	688.763	89.796	99.404	90.926
25.625	14.125	688.758	88.586	97.968	89.408
25.75	14.25	688.751	86.704	95.641	87.227
25.875	14.375	688.746	85.774	94.898	86.474
26	14.5	688.738	87.603	96.812	88.378
26.125	14.625	688.73	90.619	99.929	91.499
26.25	14.75	688.721	92.011	101.246	92.765
26.375	14.875	688.711	90.31	99.71	91.304
26.5	15	688.7	87.173	96.279	87.821
26.625	15.125	688.688	82.951	91.973	83.511
26.75	15.25	688.684	81.394	90.59	82.129
26.875	15.375	688.679	80.368	89.117	80.578
27	15.5	688.672	81.796	90.776	82.313
27.125	15.625	688.665	84.281	93.406	84.927
27.25	15.75	688.656	84.775	94.009	85.526
27.375	15.875	688.65	83.841	92.867	84.556
27.5	16	688.643	81.565	90.219	82.129
27.625	16.125	688.638	79.781	88.796	80.414
27.75	16.25	688.634	78.359	87.423	78.747
27.875	16.375	688.631	77.986	86.888	78.709
28	16.5	688.627	80.046	89.156	80.383
28.125	16.625	688.622	83.259	92.137	84.062
28.25	16.75	688.617	85.354	94.673	86.626
28.375	16.875	688.61	84.486	94.169	85.831
28.5	17	688.604	82.803	91.762	83.342
28.625	17.125	688.598	80.946	89.897	81.304
28.75	17.25	688.594	79.452	88.385	80.221
28.875	17.375	688.591	78.997	88.216	79.72
29	17.5	688.585	81.052	90.087	81.412
29.125	17.625	688.582	84.98	93.948	85.803
29.25	17.75	688.572	85.687	94.947	86.703
29.375	17.875	688.565	84.688	94.106	85.704
29.5	18	688.559	83.298	92.791	84.496
29.625	18.125	688.55	80.792	90.276	81.965
29.75	18.25	688.545	79.093	88.578	80.32
29.875	18.375	688.54	78.647	88.321	80.014
30	18.5	688.538	82.125	91.918	83.612
Max		689.997	96.581	134.668	99.967
Min		688.538	73.455	82.346	73.537

1.0 PURPOSE/OBJECTIVE

The purpose of this attachment is to determine the impact of the new decay heat values and of increased initial lake temperature on the maximum plant inlet temperature of the LaSalle County Station Ultimate Heat Sink (UHS). The new decay heat values from Reference 5.2 incorporate contributions for additional actinides and activation products. The initial UHS temperature is increased from 98°F to 100°F, as long as the maximum UHS outlet temperature is equal to or lower than 102°F. In the event that the UHS outlet temperature surpasses 102°F, the initial UHS temperature is adjusted until the maximum outlet temperature is at or less than 102°F.

2.0 METHODOLOGY AND ACCEPTANCE CRITERIA

The S&L LAKET-PC computer program is utilized to determine the combined impact of decay heat, initial UHS temperature, and allowable sediment accumulation in the UHS. The maximum allowable UHS temperature is determined for average sediment accumulations of 0, 6 and 18 inches (which correspond to UHS volumes of 464.9, 423.5 and 341.4 acre-ft, respectively).

2.1 Methodology

The LAKET program has been updated since the main calculation was performed. This new version uses text weather files as opposed to binary. It was therefore necessary to use the Bin to Txt application included in LAKET-PC program number 03.7.292-2.0 [Ref. 5.1] to convert the previously used binary weather files into text files. Case 0009 from the main body of the calculation was rerun to ensure the results using the updated version of LAKET match the results reported by the older version. For the parameters of interest, both versions of LAKET produce results within 0.03°F of each other. The UHS models run in this attachment were performed on PC no. 6664 via network server SNL1.

According to Figure 7.1 from the main body of the calculation, the most limiting UHS temperatures occur with start times of 09:00. Therefore, selected cases with start times of 09:00 are modified and rerun. A case starting at 06:00 is rerun to ensure that the 09:00 cases are in fact more limiting. The following computer simulations are run in this attachment:

- Case 1 – 0 inch sediment accumulation, 09:00 start time (0009)
- Case 2 – 6 inch sediment accumulation, 09:00 start time (0609)
- Case 3 – 18 inch sediment accumulation, 09:00 start time (1809)
- Case 4 – 18 inch sediment accumulation, 06:00 start time (1806)

All four cases incorporate the revised plant temperature rise resulting from the change in decay heat data and an increase in initial UHS temperature (greater than 98°F). For each case it is required that the maximum UHS outlet temperature not surpass 102°F. If the resulting maximum UHS outlet temperature is greater than 102°F, the case is rerun at lower initial UHS temperatures until an UHS outlet temperature lower than or equal to 102°F is achieved.

Many different weather files were created for the analysis contained in the main body of the calculation. There are two separate weather files for each starting time. One file is the worst day temperature file, which has the worst day in the weather history as day one. The second file is the worst 5/1/30 day temperature file, which has first day being the first of the worst five days in the weather history. For more details see page 13 of the main body of the calculation. Table 7.3 from the main body of the calculation lists the weather files that produce the most restrictive temperature limit. The files listed which correspond to the cases of interest are used for the runs in this attachment. In the case that two separate weather files are listed, the weather file resulting in the highest peak temperature from Table 7.3 (main calculation) is used.

The UHS inlet and outlet temperatures are plotted for every three-hour time step of the 36-day weather period. Figure 7.1 from the main body of the calculation is recreated based on the initial UHS temperatures used for Cases 1 through 4, while maintaining outlet temperatures at or below 102°F.

2.2 Acceptance Criteria

This attachment of Calculation L-002457 requires that the maximum outlet temperature remain at or below 102°F.

2.3 Limitations

Same as main body of calculation

3.0 ASSUMPTIONS

The density and specific heat of water in the UHS is assumed to be 62.0 lb/ft³ and 0.998 Btu/lb-°F [Ref. 5.3]. This corresponds to a conservative water temperature of 100°F.

All other assumptions are the same as the assumptions in the main body of calculation.

4.0 DESIGN INPUT

All design inputs for this attachment are the same as the design input from the main body of the calculation except for the initial forced temperature and the plant temperature rise. For Case 1, Case 2, and Case 4 the initial forced temperature is 100°F. The initial forced temperature for Case 3 is adjusted until an UHS outlet temperature of 102°F or lower is achieved. The plant temperature rise is determined using the same method as described in the main body of the calculation, but the decay heat ratios have changed, therefore changing the generated heat loads. The new heat loads were determined in Reference 5.2. Table G7.1 contains the revised average temperature rise for each time step. The Excel formulas used in determining the temperature rise are at the end of this attachment.

5.0 REFERENCES

- 5.1 LAKET-PC Computer Program, Version 2.0, S&L Program No. 03.7.292-2.0, August 2001.
- 5.2 "UHS Heat Load," Calculation L-002453, Rev. 2, April, 2002.
- 5.3 STMFUNC Computer Program, S&L Program No. STM 03.7.598-2.0, March 2002.

All other references except the ones mentioned above are the same as the references in the main body of the calculation.

6.0 CALCULATIONS

The calculations are the same as those described in the main body of the calculation except for the maximum allowable UHS temperature. For Attachment G, the maximum UHS outlet temperature should be at or below 102°F.

7.0 SUMMARY AND CONCLUSIONS

7.1 Summary

The cumulative results for Cases 1 through 4 are shown in Tables G7.2 through G7.5. The output for all four cases are displayed in pages G19 – G66. The maximum UHS outlet temperatures for Case 1, Case 2, and Case 4 are below 102°F when the initial UHS temperature is 100°F. For Case 1 the maximum UHS outlet temperature is 101.6°F and the maximum UHS inlet temperature is 135.9°F. Case 2 has a maximum UHS outlet temperature of 101.8°F and a maximum inlet temperature of 135.4°F. The maximum UHS outlet and inlet temperatures for Case 4 are 101.8°F and 133.9°F. Running Case 3 with an initial UHS temperature of 100°F results in UHS outlet temperatures greater than 102°F. The initial UHS temperature is therefore decreased to 99.35°F, resulting in a maximum UHS outlet temperature of 102.0°F and a maximum UHS inlet temperature of 135.5°F. Figure G7.1 plots the UHS outlet temperature and Figure G7.2 plots the lake input temperature every three hours over the 36-day weather period. It is apparent that the highest temperatures for both the UHS inlet and outlet occur within the first 24-hours. The temperatures for Case 2 tend to be elevated above the other cases because Case 2 uses the worst 5/1/30 day weather file while all the other cases use the worst day weather file.

Figure G7.3 is a recreation of Figure 7.1 from the main body of the calculation. For Figure G7.3, the limiting UHS temperatures are the initial temperatures used to achieve UHS outlet temperatures less than or equal to 102°F. Figure 7.1 shows that the most limiting UHS temperatures occur at 09:00, regardless of siltation levels. Cases 1 through 3 were rerun with the increased initial UHS temperature (100°F) and only Case 3 produced an UHS outlet temperature greater than 102°F. The initial temperature for Case 3

was therefore decreased to 99.35°F. Since Case 3 produced higher than allowable UHS outlet temperatures, the next most limiting UHS temperature point from Figure 7.1 was run, Case 4. With an initial UHS temperature of 100°F the highest UHS outlet temperature calculated remains below 102°F. Since all of the other points in Figure 7.1 are at initial temperatures of at least 0.3°F greater than the 18 inch siltation at 06:00 (Case 4), and Case 4 is acceptable at 100°F, all other points will be acceptable (maximum UHS outlet temperature less than 102°F) with initial UHS temperatures of 100°F.

7.2 Tables

- ♦ Table G7.1: Plant Temperature Rise
- ♦ Table G7.2: Cumulative Summary for Case 1 – 0" Sediment, 09:00 start time
- ♦ Table G7.3: Cumulative Summary for Case 2 – 6" Sediment, 09:00 start time
- ♦ Table G7.4: Cumulative Summary for Case 3 – 18" Sediment, 09:00 start time
- ♦ Table G7.5: Cumulative Summary for Case 4 – 18" Sediment, 06:00 start time

7.3 Figures

- ♦ Figure G7.1: UHS Outlet Temperature vs. Days After SCRAM
- ♦ Figure G7.2: UHS Inlet Temperature vs. Days After SCRAM
- ♦ Figure G7.3: Limiting Lake Temperatures vs. Time of Day – Recreation of Figure 7.1 from main body of calculation

8.0 ATTACHMENTS

Case	Description	pages
1	LAKET-PC Output - 0" Accumulated Sediment, 09:00	G19-G30
2	LAKET-PC Output - 6" Accumulated Sediment, 09:00	G31-G42
3	LAKET-PC Output - 18" Accumulated Sediment, 09:00	G43-G54
4	LAKET-PC Output - 18" Accumulated Sediment, 06:00	G55-G66
N/A	Excel Formulas Used in Determining Plant Temperature Rise	G67-G72

Table G7.1 - Plant Temperature Rise

CSCS Flowrate		86		cfs	Mass Flow	19,195,200	lbm/hr
Density		62.00		lbm/ft3	cp	0.998	Btu/lbm/F
Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
0	3	35.48	6.80E+08	2.04E+09	2.04E+09	1.43E+09	6.09E+08
3	6	28.95	5.55E+08	1.66E+09	3.70E+09	2.48E+09	1.22E+09
6	9	16.79	3.22E+08	9.65E+08	4.67E+09	3.45E+09	1.22E+09
9	12	16.39	3.14E+08	9.42E+08	5.61E+09	4.39E+09	1.22E+09
12	15	15.42	2.95E+08	8.86E+08	6.50E+09	5.28E+09	1.22E+09
15	18	15.06	2.88E+08	8.65E+08	7.36E+09	6.14E+09	1.22E+09
18	21	14.61	2.80E+08	8.39E+08	8.20E+09	6.98E+09	1.22E+09
21	24	14.36	2.75E+08	8.25E+08	9.03E+09	7.81E+09	1.22E+09
24	27	13.95	2.67E+08	8.02E+08	9.83E+09	8.61E+09	1.22E+09
27	30	13.52	2.59E+08	7.77E+08	1.06E+10	9.39E+09	1.22E+09
30	33	13.36	2.56E+08	7.68E+08	1.14E+10	1.02E+10	1.22E+09
33	36	13.36	2.56E+08	7.68E+08	1.21E+10	1.09E+10	1.22E+09
36	39	13.36	2.56E+08	7.68E+08	1.29E+10	1.17E+10	1.22E+09
39	42	13.30	2.55E+08	7.64E+08	1.37E+10	1.25E+10	1.22E+09
42	45	12.79	2.45E+08	7.35E+08	1.44E+10	1.32E+10	1.22E+09
45	48	12.79	2.45E+08	7.35E+08	1.51E+10	1.39E+10	1.22E+09
48	51	12.50	2.39E+08	7.18E+08	1.59E+10	1.46E+10	1.22E+09
51	54	12.50	2.39E+08	7.18E+08	1.66E+10	1.54E+10	1.22E+09
54	57	12.30	2.36E+08	7.07E+08	1.73E+10	1.61E+10	1.22E+09
57	60	12.09	2.32E+08	6.95E+08	1.80E+10	1.68E+10	1.22E+09
60	63	12.09	2.32E+08	6.95E+08	1.87E+10	1.75E+10	1.22E+09
63	66	12.09	2.32E+08	6.95E+08	1.94E+10	1.82E+10	1.22E+09
66	69	12.09	2.32E+08	6.95E+08	2.01E+10	1.88E+10	1.22E+09
69	72	12.08	2.31E+08	6.94E+08	2.08E+10	1.95E+10	1.22E+09
72	75	11.56	2.21E+08	6.64E+08	2.14E+10	2.02E+10	1.22E+09
75	78	11.56	2.21E+08	6.64E+08	2.21E+10	2.09E+10	1.22E+09
78	81	11.56	2.21E+08	6.64E+08	2.28E+10	2.15E+10	1.22E+09
81	84	11.56	2.21E+08	6.64E+08	2.34E+10	2.22E+10	1.22E+09
84	87	11.56	2.21E+08	6.64E+08	2.41E+10	2.29E+10	1.22E+09
87	90	11.56	2.21E+08	6.64E+08	2.47E+10	2.35E+10	1.22E+09
90	93	11.56	2.21E+08	6.64E+08	2.54E+10	2.42E+10	1.22E+09
93	96	11.56	2.21E+08	6.64E+08	2.61E+10	2.49E+10	1.22E+09
96	99	11.16	2.14E+08	6.42E+08	2.67E+10	2.55E+10	1.22E+09
99	102	11.15	2.14E+08	6.41E+08	2.74E+10	2.61E+10	1.22E+09
102	105	11.15	2.14E+08	6.41E+08	2.80E+10	2.68E+10	1.22E+09
105	108	11.15	2.14E+08	6.41E+08	2.86E+10	2.74E+10	1.22E+09
108	111	11.15	2.14E+08	6.41E+08	2.93E+10	2.81E+10	1.22E+09
111	114	10.95	2.10E+08	6.29E+08	2.99E+10	2.87E+10	1.22E+09
114	117	10.94	2.10E+08	6.29E+08	3.05E+10	2.93E+10	1.22E+09
117	120	10.94	2.10E+08	6.29E+08	3.12E+10	2.99E+10	1.22E+09
120	123	10.59	2.03E+08	6.09E+08	3.18E+10	3.06E+10	1.22E+09
123	126	10.59	2.03E+08	6.09E+08	3.24E+10	3.12E+10	1.22E+09
126	129	10.59	2.03E+08	6.09E+08	3.30E+10	3.18E+10	1.22E+09
129	132	10.59	2.03E+08	6.09E+08	3.36E+10	3.24E+10	1.22E+09
132	135	10.59	2.03E+08	6.09E+08	3.42E+10	3.30E+10	1.22E+09

Table G7.1 - Plant Temperature Rise

Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
135	138	10.59	2.03E+08	6.09E+08	3.48E+10	3.36E+10	1.22E+09
138	141	10.59	2.03E+08	6.09E+08	3.54E+10	3.42E+10	1.22E+09
141	144	10.59	2.03E+08	6.09E+08	3.60E+10	3.48E+10	1.22E+09
144	147	10.59	2.03E+08	6.09E+08	3.66E+10	3.54E+10	1.22E+09
147	150	10.59	2.03E+08	6.09E+08	3.73E+10	3.60E+10	1.22E+09
150	153	10.59	2.03E+08	6.09E+08	3.79E+10	3.66E+10	1.22E+09
153	156	10.59	2.03E+08	6.09E+08	3.85E+10	3.73E+10	1.22E+09
156	159	10.59	2.03E+08	6.09E+08	3.91E+10	3.79E+10	1.22E+09
159	162	10.59	2.03E+08	6.09E+08	3.97E+10	3.85E+10	1.22E+09
162	165	10.59	2.03E+08	6.09E+08	4.03E+10	3.91E+10	1.22E+09
165	168	10.36	1.98E+08	5.95E+08	4.09E+10	3.97E+10	1.22E+09
168	171	10.07	1.93E+08	5.79E+08	4.15E+10	4.03E+10	1.22E+09
171	174	10.07	1.93E+08	5.79E+08	4.20E+10	4.08E+10	1.22E+09
174	177	10.07	1.93E+08	5.79E+08	4.26E+10	4.14E+10	1.22E+09
177	180	10.07	1.93E+08	5.79E+08	4.32E+10	4.20E+10	1.22E+09
180	183	10.07	1.93E+08	5.79E+08	4.38E+10	4.26E+10	1.22E+09
183	186	10.07	1.93E+08	5.79E+08	4.44E+10	4.31E+10	1.22E+09
186	189	10.07	1.93E+08	5.79E+08	4.49E+10	4.37E+10	1.22E+09
189	192	10.07	1.93E+08	5.79E+08	4.55E+10	4.43E+10	1.22E+09
192	195	10.07	1.93E+08	5.79E+08	4.61E+10	4.49E+10	1.22E+09
195	198	10.07	1.93E+08	5.79E+08	4.67E+10	4.55E+10	1.22E+09
198	201	10.07	1.93E+08	5.79E+08	4.73E+10	4.60E+10	1.22E+09
201	204	10.07	1.93E+08	5.79E+08	4.78E+10	4.66E+10	1.22E+09
204	207	10.07	1.93E+08	5.79E+08	4.84E+10	4.72E+10	1.22E+09
207	210	10.07	1.93E+08	5.79E+08	4.90E+10	4.78E+10	1.22E+09
210	213	10.07	1.93E+08	5.79E+08	4.96E+10	4.84E+10	1.22E+09
213	216	10.07	1.93E+08	5.79E+08	5.02E+10	4.89E+10	1.22E+09
216	219	10.07	1.93E+08	5.79E+08	5.07E+10	4.95E+10	1.22E+09
219	222	10.07	1.93E+08	5.79E+08	5.13E+10	5.01E+10	1.22E+09
222	225	9.81	1.88E+08	5.64E+08	5.19E+10	5.07E+10	1.22E+09
225	228	9.79	1.87E+08	5.62E+08	5.24E+10	5.12E+10	1.22E+09
228	231	9.79	1.87E+08	5.62E+08	5.30E+10	5.18E+10	1.22E+09
231	234	9.79	1.87E+08	5.62E+08	5.36E+10	5.23E+10	1.22E+09
234	237	9.79	1.87E+08	5.62E+08	5.41E+10	5.29E+10	1.22E+09
237	240	9.79	1.87E+08	5.62E+08	5.47E+10	5.35E+10	1.22E+09
240	243	9.63	1.84E+08	5.53E+08	5.52E+10	5.40E+10	1.22E+09
243	246	9.63	1.84E+08	5.53E+08	5.58E+10	5.46E+10	1.22E+09
246	249	9.63	1.84E+08	5.53E+08	5.63E+10	5.51E+10	1.22E+09
249	252	9.63	1.84E+08	5.53E+08	5.69E+10	5.57E+10	1.22E+09
252	255	9.63	1.84E+08	5.53E+08	5.75E+10	5.62E+10	1.22E+09
255	258	9.63	1.84E+08	5.53E+08	5.80E+10	5.68E+10	1.22E+09
258	261	9.63	1.84E+08	5.53E+08	5.86E+10	5.73E+10	1.22E+09
261	264	9.63	1.84E+08	5.53E+08	5.91E+10	5.79E+10	1.22E+09
264	267	9.63	1.84E+08	5.53E+08	5.97E+10	5.84E+10	1.22E+09
267	270	9.63	1.84E+08	5.53E+08	6.02E+10	5.90E+10	1.22E+09
270	273	9.63	1.84E+08	5.53E+08	6.08E+10	5.96E+10	1.22E+09
273	276	9.63	1.84E+08	5.53E+08	6.13E+10	6.01E+10	1.22E+09

Table G7.1 - Plant Temperature Rise

Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
276	279	9.48	1.82E+08	5.45E+08	6.19E+10	6.07E+10	1.22E+09
279	282	9.27	1.78E+08	5.33E+08	6.24E+10	6.12E+10	1.22E+09
282	285	9.27	1.78E+08	5.33E+08	6.29E+10	6.17E+10	1.22E+09
285	288	9.27	1.78E+08	5.33E+08	6.35E+10	6.23E+10	1.22E+09
288	291	9.27	1.78E+08	5.33E+08	6.40E+10	6.28E+10	1.22E+09
291	294	9.27	1.78E+08	5.33E+08	6.45E+10	6.33E+10	1.22E+09
294	297	9.27	1.78E+08	5.33E+08	6.51E+10	6.39E+10	1.22E+09
297	300	9.27	1.78E+08	5.33E+08	6.56E+10	6.44E+10	1.22E+09
300	303	9.27	1.78E+08	5.33E+08	6.61E+10	6.49E+10	1.22E+09
303	306	9.27	1.78E+08	5.33E+08	6.67E+10	6.54E+10	1.22E+09
306	309	9.27	1.78E+08	5.33E+08	6.72E+10	6.60E+10	1.22E+09
309	312	9.27	1.78E+08	5.33E+08	6.77E+10	6.65E+10	1.22E+09
312	315	9.27	1.78E+08	5.33E+08	6.83E+10	6.70E+10	1.22E+09
315	318	9.27	1.78E+08	5.33E+08	6.88E+10	6.76E+10	1.22E+09
318	321	9.27	1.78E+08	5.33E+08	6.93E+10	6.81E+10	1.22E+09
321	324	9.27	1.78E+08	5.33E+08	6.99E+10	6.86E+10	1.22E+09
324	327	9.27	1.78E+08	5.33E+08	7.04E+10	6.92E+10	1.22E+09
327	330	9.27	1.78E+08	5.33E+08	7.09E+10	6.97E+10	1.22E+09
330	333	9.27	1.78E+08	5.33E+08	7.15E+10	7.02E+10	1.22E+09
333	336	9.27	1.78E+08	5.33E+08	7.20E+10	7.08E+10	1.22E+09
336	339	9.27	1.78E+08	5.33E+08	7.25E+10	7.13E+10	1.22E+09
339	342	9.27	1.78E+08	5.33E+08	7.31E+10	7.18E+10	1.22E+09
342	345	9.27	1.78E+08	5.33E+08	7.36E+10	7.24E+10	1.22E+09
345	348	9.27	1.78E+08	5.33E+08	7.41E+10	7.29E+10	1.22E+09
348	351	9.27	1.78E+08	5.33E+08	7.47E+10	7.34E+10	1.22E+09
351	354	9.27	1.78E+08	5.33E+08	7.52E+10	7.40E+10	1.22E+09
354	357	9.27	1.78E+08	5.33E+08	7.57E+10	7.45E+10	1.22E+09
357	360	9.27	1.78E+08	5.33E+08	7.63E+10	7.50E+10	1.22E+09
360	363	9.27	1.78E+08	5.33E+08	7.68E+10	7.56E+10	1.22E+09
363	366	9.27	1.78E+08	5.33E+08	7.73E+10	7.61E+10	1.22E+09
366	369	9.27	1.78E+08	5.33E+08	7.79E+10	7.66E+10	1.22E+09
369	372	9.27	1.78E+08	5.33E+08	7.84E+10	7.72E+10	1.22E+09
372	375	9.27	1.78E+08	5.33E+08	7.89E+10	7.77E+10	1.22E+09
375	378	9.27	1.78E+08	5.33E+08	7.95E+10	7.82E+10	1.22E+09
378	381	9.27	1.78E+08	5.33E+08	8.00E+10	7.88E+10	1.22E+09
381	384	9.27	1.78E+08	5.33E+08	8.05E+10	7.93E+10	1.22E+09
384	387	9.27	1.78E+08	5.33E+08	8.11E+10	7.98E+10	1.22E+09
387	390	9.27	1.78E+08	5.33E+08	8.16E+10	8.04E+10	1.22E+09
390	393	9.27	1.78E+08	5.33E+08	8.21E+10	8.09E+10	1.22E+09
393	396	9.27	1.78E+08	5.33E+08	8.27E+10	8.14E+10	1.22E+09
396	399	9.27	1.78E+08	5.33E+08	8.32E+10	8.20E+10	1.22E+09
399	402	9.27	1.78E+08	5.33E+08	8.37E+10	8.25E+10	1.22E+09
402	405	9.27	1.78E+08	5.33E+08	8.43E+10	8.30E+10	1.22E+09
405	408	9.27	1.78E+08	5.33E+08	8.48E+10	8.36E+10	1.22E+09
408	411	9.27	1.78E+08	5.33E+08	8.53E+10	8.41E+10	1.22E+09
411	414	9.27	1.78E+08	5.33E+08	8.58E+10	8.46E+10	1.22E+09
414	417	9.23	1.77E+08	5.31E+08	8.64E+10	8.52E+10	1.22E+09

Table G7.1 - Plant Temperature Rise

Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
417	420	8.94	1.71E+08	5.14E+08	8.69E+10	8.57E+10	1.22E+09
420	423	8.94	1.71E+08	5.14E+08	8.74E+10	8.62E+10	1.22E+09
423	426	8.94	1.71E+08	5.14E+08	8.79E+10	8.67E+10	1.22E+09
426	429	8.94	1.71E+08	5.14E+08	8.84E+10	8.72E+10	1.22E+09
429	432	8.94	1.71E+08	5.14E+08	8.89E+10	8.77E+10	1.22E+09
432	435	8.94	1.71E+08	5.14E+08	8.95E+10	8.82E+10	1.22E+09
435	438	8.94	1.71E+08	5.14E+08	9.00E+10	8.88E+10	1.22E+09
438	441	8.94	1.71E+08	5.14E+08	9.05E+10	8.93E+10	1.22E+09
441	444	8.94	1.71E+08	5.14E+08	9.10E+10	8.98E+10	1.22E+09
444	447	8.94	1.71E+08	5.14E+08	9.15E+10	9.03E+10	1.22E+09
447	450	8.94	1.71E+08	5.14E+08	9.20E+10	9.08E+10	1.22E+09
450	453	8.94	1.71E+08	5.14E+08	9.25E+10	9.13E+10	1.22E+09
453	456	8.94	1.71E+08	5.14E+08	9.31E+10	9.18E+10	1.22E+09
456	459	8.94	1.71E+08	5.14E+08	9.36E+10	9.24E+10	1.22E+09
459	462	8.94	1.71E+08	5.14E+08	9.41E+10	9.29E+10	1.22E+09
462	465	8.94	1.71E+08	5.14E+08	9.46E+10	9.34E+10	1.22E+09
465	468	8.94	1.71E+08	5.14E+08	9.51E+10	9.39E+10	1.22E+09
468	471	8.94	1.71E+08	5.14E+08	9.56E+10	9.44E+10	1.22E+09
471	474	8.94	1.71E+08	5.14E+08	9.61E+10	9.49E+10	1.22E+09
474	477	8.94	1.71E+08	5.14E+08	9.67E+10	9.54E+10	1.22E+09
477	480	8.94	1.71E+08	5.14E+08	9.72E+10	9.59E+10	1.22E+09
480	483	8.81	1.69E+08	5.06E+08	9.77E+10	9.65E+10	1.22E+09
483	486	8.78	1.68E+08	5.05E+08	9.82E+10	9.70E+10	1.22E+09
486	489	8.78	1.68E+08	5.05E+08	9.87E+10	9.75E+10	1.22E+09
489	492	8.78	1.68E+08	5.05E+08	9.92E+10	9.80E+10	1.22E+09
492	495	8.78	1.68E+08	5.05E+08	9.97E+10	9.85E+10	1.22E+09
495	498	8.78	1.68E+08	5.05E+08	1.00E+11	9.90E+10	1.22E+09
498	501	8.78	1.68E+08	5.05E+08	1.01E+11	9.95E+10	1.22E+09
501	504	8.78	1.68E+08	5.05E+08	1.01E+11	1.00E+11	1.22E+09
504	507	8.78	1.68E+08	5.05E+08	1.02E+11	1.00E+11	1.22E+09
507	510	8.78	1.68E+08	5.05E+08	1.02E+11	1.01E+11	1.22E+09
510	513	8.78	1.68E+08	5.05E+08	1.03E+11	1.02E+11	1.22E+09
513	516	8.78	1.68E+08	5.05E+08	1.03E+11	1.02E+11	1.22E+09
516	519	8.78	1.68E+08	5.05E+08	1.04E+11	1.03E+11	1.22E+09
519	522	8.78	1.68E+08	5.05E+08	1.04E+11	1.03E+11	1.22E+09
522	525	8.78	1.68E+08	5.05E+08	1.05E+11	1.04E+11	1.22E+09
525	528	8.78	1.68E+08	5.05E+08	1.05E+11	1.04E+11	1.22E+09
528	531	8.78	1.68E+08	5.05E+08	1.06E+11	1.05E+11	1.22E+09
531	534	8.78	1.68E+08	5.05E+08	1.06E+11	1.05E+11	1.22E+09
534	537	8.78	1.68E+08	5.05E+08	1.07E+11	1.06E+11	1.22E+09
537	540	8.78	1.68E+08	5.05E+08	1.07E+11	1.06E+11	1.22E+09
540	543	8.78	1.68E+08	5.05E+08	1.08E+11	1.07E+11	1.22E+09
543	546	8.78	1.68E+08	5.05E+08	1.08E+11	1.07E+11	1.22E+09
546	549	8.78	1.68E+08	5.05E+08	1.09E+11	1.08E+11	1.22E+09
549	552	8.78	1.68E+08	5.05E+08	1.09E+11	1.08E+11	1.22E+09
552	555	8.78	1.68E+08	5.05E+08	1.10E+11	1.09E+11	1.22E+09
555	558	8.61	1.65E+08	4.95E+08	1.10E+11	1.09E+11	1.22E+09

Table G7.1 - Plant Temperature Rise

Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
558	561	8.57	1.64E+08	4.93E+08	1.11E+11	1.10E+11	1.22E+09
561	564	8.57	1.64E+08	4.93E+08	1.11E+11	1.10E+11	1.22E+09
564	567	8.57	1.64E+08	4.93E+08	1.12E+11	1.11E+11	1.22E+09
567	570	8.57	1.64E+08	4.93E+08	1.12E+11	1.11E+11	1.22E+09
570	573	8.57	1.64E+08	4.93E+08	1.13E+11	1.12E+11	1.22E+09
573	576	8.57	1.64E+08	4.93E+08	1.13E+11	1.12E+11	1.22E+09
576	579	8.57	1.64E+08	4.93E+08	1.14E+11	1.13E+11	1.22E+09
579	582	8.57	1.64E+08	4.93E+08	1.14E+11	1.13E+11	1.22E+09
582	585	8.57	1.64E+08	4.93E+08	1.15E+11	1.13E+11	1.22E+09
585	588	8.57	1.64E+08	4.93E+08	1.15E+11	1.14E+11	1.22E+09
588	591	8.57	1.64E+08	4.93E+08	1.16E+11	1.14E+11	1.22E+09
591	594	8.57	1.64E+08	4.93E+08	1.16E+11	1.15E+11	1.22E+09
594	597	8.57	1.64E+08	4.93E+08	1.17E+11	1.15E+11	1.22E+09
597	600	8.57	1.64E+08	4.93E+08	1.17E+11	1.16E+11	1.22E+09
600	603	8.57	1.64E+08	4.93E+08	1.18E+11	1.16E+11	1.22E+09
603	606	8.57	1.64E+08	4.93E+08	1.18E+11	1.17E+11	1.22E+09
606	609	8.57	1.64E+08	4.93E+08	1.19E+11	1.17E+11	1.22E+09
609	612	8.57	1.64E+08	4.93E+08	1.19E+11	1.18E+11	1.22E+09
612	615	8.57	1.64E+08	4.93E+08	1.20E+11	1.18E+11	1.22E+09
615	618	8.57	1.64E+08	4.93E+08	1.20E+11	1.19E+11	1.22E+09
618	621	8.57	1.64E+08	4.93E+08	1.21E+11	1.19E+11	1.22E+09
621	624	8.57	1.64E+08	4.93E+08	1.21E+11	1.20E+11	1.22E+09
624	627	8.57	1.64E+08	4.93E+08	1.22E+11	1.20E+11	1.22E+09
627	630	8.57	1.64E+08	4.93E+08	1.22E+11	1.21E+11	1.22E+09
630	633	8.57	1.64E+08	4.93E+08	1.23E+11	1.21E+11	1.22E+09
633	636	8.57	1.64E+08	4.93E+08	1.23E+11	1.22E+11	1.22E+09
636	639	8.57	1.64E+08	4.93E+08	1.24E+11	1.22E+11	1.22E+09
639	642	8.57	1.64E+08	4.93E+08	1.24E+11	1.23E+11	1.22E+09
642	645	8.57	1.64E+08	4.93E+08	1.25E+11	1.23E+11	1.22E+09
645	648	8.57	1.64E+08	4.93E+08	1.25E+11	1.24E+11	1.22E+09
648	651	8.57	1.64E+08	4.93E+08	1.26E+11	1.24E+11	1.22E+09
651	654	8.57	1.64E+08	4.93E+08	1.26E+11	1.25E+11	1.22E+09
654	657	8.57	1.64E+08	4.93E+08	1.27E+11	1.25E+11	1.22E+09
657	660	8.57	1.64E+08	4.93E+08	1.27E+11	1.26E+11	1.22E+09
660	663	8.57	1.64E+08	4.93E+08	1.28E+11	1.26E+11	1.22E+09
663	666	8.57	1.64E+08	4.93E+08	1.28E+11	1.27E+11	1.22E+09
666	669	8.57	1.64E+08	4.93E+08	1.29E+11	1.27E+11	1.22E+09
669	672	8.57	1.64E+08	4.93E+08	1.29E+11	1.28E+11	1.22E+09
672	675	8.57	1.64E+08	4.93E+08	1.29E+11	1.28E+11	1.22E+09
675	678	8.57	1.64E+08	4.93E+08	1.30E+11	1.29E+11	1.22E+09
678	681	8.57	1.64E+08	4.93E+08	1.30E+11	1.29E+11	1.22E+09
681	684	8.57	1.64E+08	4.93E+08	1.31E+11	1.30E+11	1.22E+09
684	687	8.57	1.64E+08	4.93E+08	1.31E+11	1.30E+11	1.22E+09
687	690	8.57	1.64E+08	4.93E+08	1.32E+11	1.31E+11	1.22E+09
690	693	8.57	1.64E+08	4.93E+08	1.32E+11	1.31E+11	1.22E+09
693	696	8.57	1.64E+08	4.93E+08	1.33E+11	1.32E+11	1.22E+09
696	699	8.57	1.64E+08	4.93E+08	1.33E+11	1.32E+11	1.22E+09

Table G7.1 - Plant Temperature Rise

Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
699	702	8.57	1.64E+08	4.93E+08	1.34E+11	1.33E+11	1.22E+09
702	705	8.57	1.64E+08	4.93E+08	1.34E+11	1.33E+11	1.22E+09
705	708	8.57	1.64E+08	4.93E+08	1.35E+11	1.34E+11	1.22E+09
708	711	8.57	1.64E+08	4.93E+08	1.35E+11	1.34E+11	1.22E+09
711	714	8.57	1.64E+08	4.93E+08	1.36E+11	1.35E+11	1.22E+09
714	717	8.57	1.64E+08	4.93E+08	1.36E+11	1.35E+11	1.22E+09
717	720	8.52	1.63E+08	4.90E+08	1.37E+11	1.36E+11	1.22E+09
720	723	8.31	1.59E+08	4.77E+08	1.37E+11	1.36E+11	1.22E+09
723	726	8.31	1.59E+08	4.77E+08	1.38E+11	1.37E+11	1.22E+09
726	729	8.31	1.59E+08	4.77E+08	1.38E+11	1.37E+11	1.22E+09
729	732	8.31	1.59E+08	4.77E+08	1.39E+11	1.38E+11	1.22E+09
732	735	8.31	1.59E+08	4.77E+08	1.39E+11	1.38E+11	1.22E+09
735	738	8.31	1.59E+08	4.77E+08	1.40E+11	1.39E+11	1.22E+09
738	741	8.31	1.59E+08	4.77E+08	1.40E+11	1.39E+11	1.22E+09
741	744	8.31	1.59E+08	4.77E+08	1.41E+11	1.39E+11	1.22E+09
744	747	8.31	1.59E+08	4.77E+08	1.41E+11	1.40E+11	1.22E+09
747	750	8.31	1.59E+08	4.77E+08	1.42E+11	1.40E+11	1.22E+09
750	753	8.31	1.59E+08	4.77E+08	1.42E+11	1.41E+11	1.22E+09
753	756	8.31	1.59E+08	4.77E+08	1.43E+11	1.41E+11	1.22E+09
756	759	8.31	1.59E+08	4.77E+08	1.43E+11	1.42E+11	1.22E+09
759	762	8.31	1.59E+08	4.77E+08	1.44E+11	1.42E+11	1.22E+09
762	765	8.31	1.59E+08	4.77E+08	1.44E+11	1.43E+11	1.22E+09
765	768	8.31	1.59E+08	4.77E+08	1.45E+11	1.43E+11	1.22E+09
768	771	8.31	1.59E+08	4.77E+08	1.45E+11	1.44E+11	1.22E+09
771	774	8.31	1.59E+08	4.77E+08	1.45E+11	1.44E+11	1.22E+09
774	777	8.31	1.59E+08	4.77E+08	1.46E+11	1.45E+11	1.22E+09
777	780	8.31	1.59E+08	4.77E+08	1.46E+11	1.45E+11	1.22E+09
780	783	8.31	1.59E+08	4.77E+08	1.47E+11	1.46E+11	1.22E+09
783	786	8.31	1.59E+08	4.77E+08	1.47E+11	1.46E+11	1.22E+09
786	789	8.31	1.59E+08	4.77E+08	1.48E+11	1.47E+11	1.22E+09
789	792	8.31	1.59E+08	4.77E+08	1.48E+11	1.47E+11	1.22E+09
792	795	8.31	1.59E+08	4.77E+08	1.49E+11	1.48E+11	1.22E+09
795	798	8.31	1.59E+08	4.77E+08	1.49E+11	1.48E+11	1.22E+09
798	801	8.31	1.59E+08	4.77E+08	1.50E+11	1.49E+11	1.22E+09
801	804	8.31	1.59E+08	4.77E+08	1.50E+11	1.49E+11	1.22E+09
804	807	8.31	1.59E+08	4.77E+08	1.51E+11	1.50E+11	1.22E+09
807	810	8.31	1.59E+08	4.77E+08	1.51E+11	1.50E+11	1.22E+09
810	813	8.31	1.59E+08	4.77E+08	1.52E+11	1.50E+11	1.22E+09
813	816	8.31	1.59E+08	4.77E+08	1.52E+11	1.51E+11	1.22E+09
816	819	8.31	1.59E+08	4.77E+08	1.53E+11	1.51E+11	1.22E+09
819	822	8.31	1.59E+08	4.77E+08	1.53E+11	1.52E+11	1.22E+09
822	825	8.31	1.59E+08	4.77E+08	1.54E+11	1.52E+11	1.22E+09
825	828	8.31	1.59E+08	4.77E+08	1.54E+11	1.53E+11	1.22E+09
828	831	8.31	1.59E+08	4.77E+08	1.55E+11	1.53E+11	1.22E+09
831	834	8.31	1.59E+08	4.77E+08	1.55E+11	1.54E+11	1.22E+09
834	837	8.31	1.59E+08	4.77E+08	1.55E+11	1.54E+11	1.22E+09
837	840	8.31	1.59E+08	4.77E+08	1.56E+11	1.55E+11	1.22E+09

Table G7.1 - Plant Temperature Rise

Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
840	843	8.31	1.59E+08	4.77E+08	1.56E+11	1.55E+11	1.22E+09
843	846	8.31	1.59E+08	4.77E+08	1.57E+11	1.56E+11	1.22E+09
846	849	8.31	1.59E+08	4.77E+08	1.57E+11	1.56E+11	1.22E+09
849	852	8.31	1.59E+08	4.77E+08	1.58E+11	1.57E+11	1.22E+09
852	855	8.31	1.59E+08	4.77E+08	1.58E+11	1.57E+11	1.22E+09
855	858	8.31	1.59E+08	4.77E+08	1.59E+11	1.58E+11	1.22E+09
858	861	8.31	1.59E+08	4.77E+08	1.59E+11	1.58E+11	1.22E+09
861	864	8.31	1.59E+08	4.77E+08	1.60E+11	1.59E+11	1.22E+09
	36 Day Average Heat Load		1.85E+08				

Table G7.2. Cumulative Summary for Case 1 - 0" Sediment, 09:00 Start Time

Case 1: LaSalle UHS (09:00, Worst Day Temp; Ti=100F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY		MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE	(CFS)	-0.16 (8051900)	-0.20 (7011900)	-0.18
TOTAL EVAP	(CFS)	-0.25 (8041900)	-4.67 (7031900)	-1.39
NATURAL EVAP	(CFS)	0.00 (7011900)	-3.62 (7031900)	-0.77
FORCED EVAP	(CFS)	-0.25 (8041900)	-1.78 (7011900)	-0.62
PRECIPITATION	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION	(FEET)	689.99 (7011900)	688.64 (8051900)	689.27
DISSOLVED SOLIDS	(PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA	(ACRE)	83.82 (7011900)	81.58 (8051900)	82.61
SOLAR GAIN (BTU/HR-FT2)		426.50 (7011900)	97.95 (7041900)	206.06
SURF LOSS (BTU/HR-FT2)		162.37 (7011900)	144.64 (7061900)	151.85
EVAP LOSS (BTU/HR-FT2)		231.58 (7031900)	0.00 (7011900)	49.83
COND LOSS (BTU/HR-FT2)		39.22 (7261900)	-6.56 (7261900)	6.89
CIRCULATION TIME	(HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL	(F)	98.68 (7011900)	82.77 (7061900)	89.37
LAKE TEMP @ INLET	(F)	135.93 (7011900)	93.43 (7251900)	100.13
LAKE TEMP @ OUTLET	(F)	101.55 (7011900)	84.35 (7061900)	90.50

TEMPERATURE		FREQUENCY OF OCCURENCES		
		1%	5%	50%

LAKE TEMP NATURAL	(F)	98.0	95.8	89.0
LAKE TEMP @ INLET	(F)	130.0	108.0	99.4
LAKE TEMP @ OUTLET	(F)	101.0	96.8	90.2

Table G7.3. Cumulative Summary for Case 2 – 6" Sediment, 09:00 Start Time

Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY		MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE	(CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
TOTAL EVAP	(CFS)	-0.32 (8051900)	-4.11 (7051900)	-1.59
NATURAL EVAP	(CFS)	0.00 (7031900)	-2.71 (7051900)	-0.95
FORCED EVAP	(CFS)	-0.27 (7311900)	-1.65 (7011900)	-0.64
PRECIPITATION	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL	(CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION	(FEET)	689.99 (7011900)	688.46 (8051900)	689.18
DISSOLVED SOLIDS	(PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA	(ACRE)	82.98 (7011900)	80.48 (8051900)	81.65
SOLAR GAIN (BTU/HR-FT2)		430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)		162.49 (7011900)	143.55 (7241900)	153.38
EVAP LOSS (BTU/HR-FT2)		174.75 (7051900)	0.00 (7031900)	62.48
COND LOSS (BTU/HR-FT2)		25.44 (7051900)	-31.64 (7251900)	5.29
CIRCULATION TIME	(HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL	(F)	98.78 (7011900)	81.73 (7241900)	90.75
LAKE TEMP @ INLET	(F)	135.36 (7011900)	91.03 (7241900)	101.26
LAKE TEMP @ OUTLET	(F)	101.78 (7011900)	82.46 (7241900)	91.64

TEMPERATURE		FREQUENCY OF OCCURENCES		
		1%	5%	50%

LAKE TEMP NATURAL	(F)	98.0	96.6	90.9
LAKE TEMP @ INLET	(F)	130.0	110.1	101.0
LAKE TEMP @ OUTLET	(F)	101.0	97.7	91.8

Table G7.4. Cumulative Summary for Case 3 – 18" Sediment, 09:00 Start Time

Case 3: LaSalle UHS (09:00, Worst Day Temp; Ti=99.35F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
TOTAL EVAP (CFS)	-0.20 (8041900)	-4.34 (7031900)	-1.37
NATURAL EVAP (CFS)	0.00 (7011900)	-3.38 (7031900)	-0.74
FORCED EVAP (CFS)	-0.20 (8041900)	-1.87 (7011900)	-0.62
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.63 (8051900)	689.27
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA (ACRE)	81.34 (7011900)	79.16 (8051900)	80.18
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.06
SURF LOSS (BTU/HR-FT2)	162.86 (7011900)	142.86 (7061900)	151.69
EVAP LOSS (BTU/HR-FT2)	222.86 (7031900)	0.00 (7011900)	49.66
COND LOSS (BTU/HR-FT2)	39.52 (7261900)	-7.05 (7261900)	6.81
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL (F)	99.10 (7011900)	81.09 (7061900)	89.22
LAKE TEMP @ INLET (F)	135.50 (7011900)	92.01 (7251900)	99.70
LAKE TEMP @ OUTLET (F)	101.98 (7011900)	82.17 (7061900)	90.10

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%

LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	130.0	106.8	99.2
LAKE TEMP @ OUTLET (F)	101.0	96.9	89.9

Table G7.5. Cumulative Summary for Case 4 – 18" Sediment, 06:00 Start Time

Case 4: LaSalle UHS (06:00, Worst Day Temp; Ti=100F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
TOTAL EVAP (CFS)	-0.20 (8041900)	-4.34 (7031900)	-1.36
NATURAL EVAP (CFS)	0.00 (7011900)	-3.39 (7031900)	-0.74
FORCED EVAP (CFS)	-0.20 (8041900)	-1.82 (7011900)	-0.62
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.63 (8051900)	689.27
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA (ACRE)	81.34 (7011900)	79.17 (8051900)	80.18
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.18
SURF LOSS (BTU/HR-FT2)	163.09 (7011900)	142.86 (7071900)	151.74
EVAP LOSS (BTU/HR-FT2)	223.45 (7031900)	0.00 (7011900)	49.53
COND LOSS (BTU/HR-FT2)	39.52 (7261900)	-7.06 (7261900)	6.78
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL (F)	99.30 (7011900)	81.09 (7071900)	89.26
LAKE TEMP @ INLET (F)	133.93 (7011900)	91.99 (7261900)	99.74
LAKE TEMP @ OUTLET (F)	101.80 (7011900)	82.26 (7071900)	90.14

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%

LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	128.0	108.0	99.2
LAKE TEMP @ OUTLET (F)	101.0	97.1	89.9

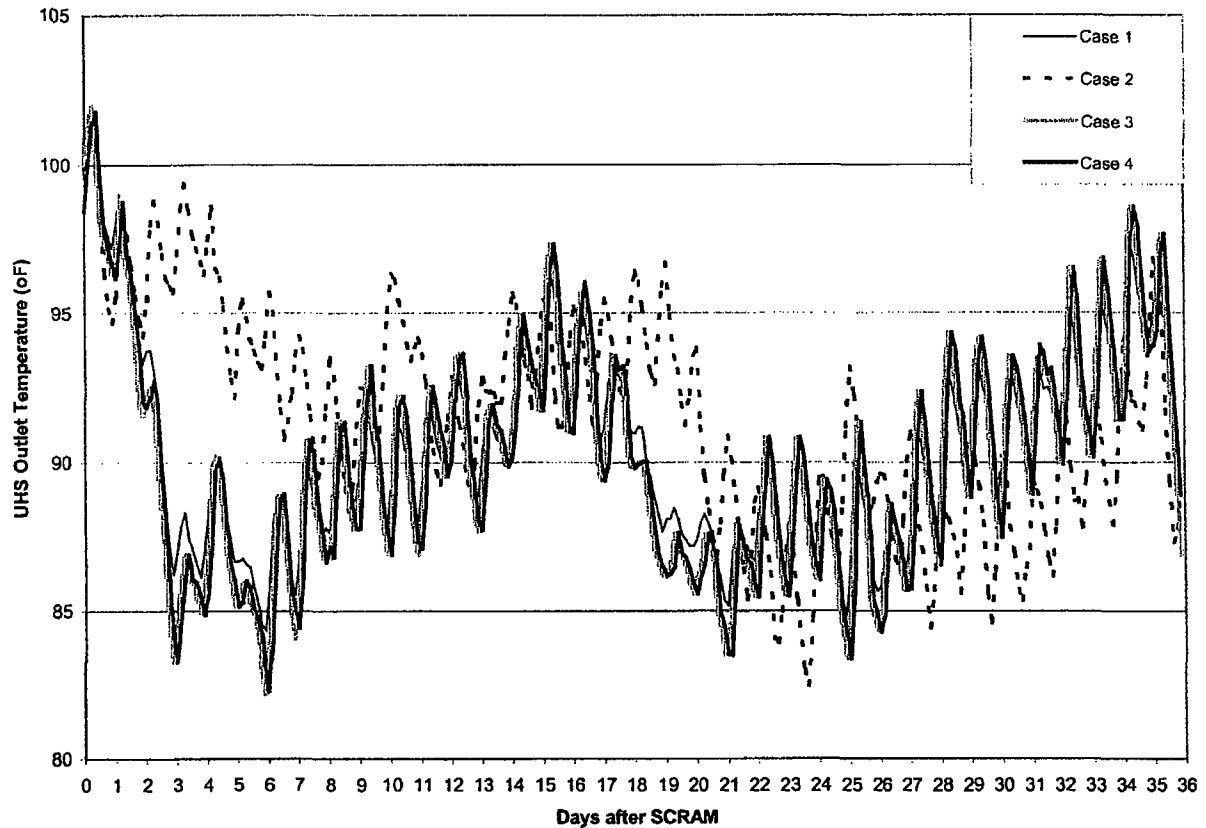


Figure G7.1. UHS Outlet Temperature vs. Days After SCRAM

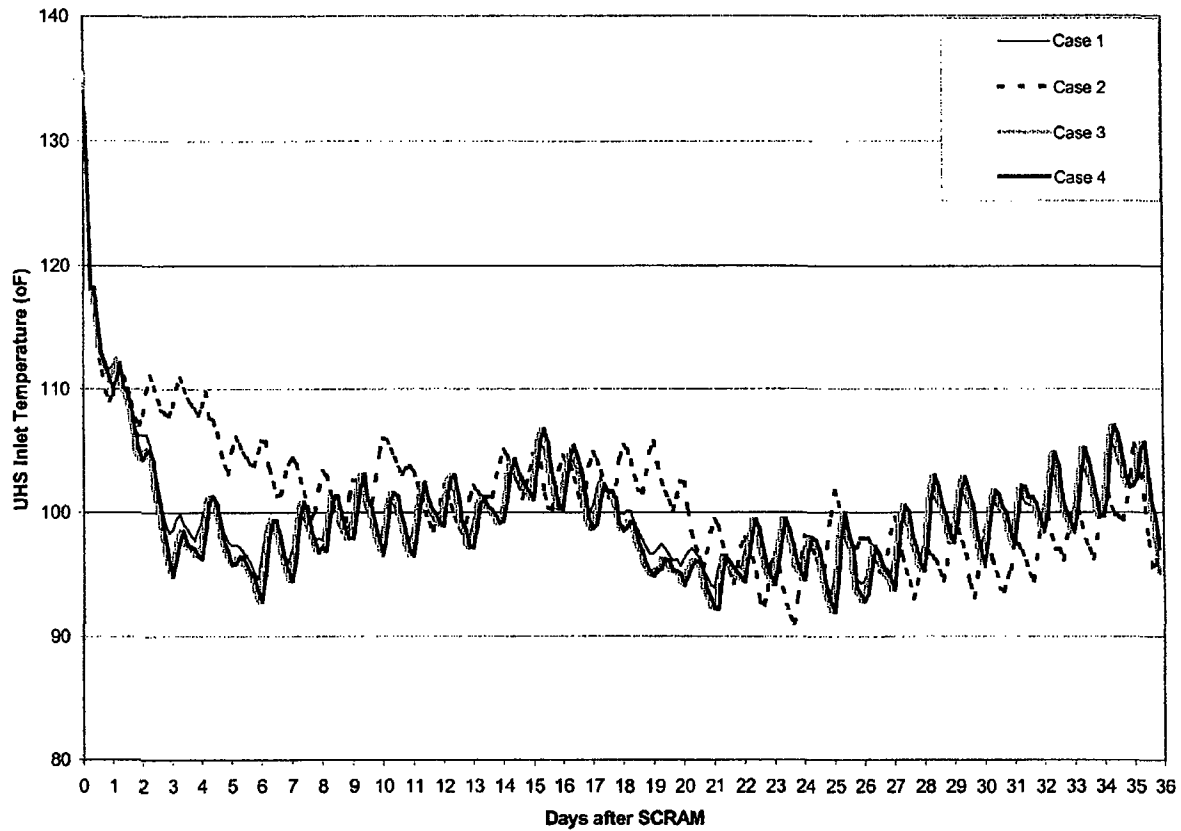


Figure G7.2. UHS Inlet Temperature vs. Days After SCRAM

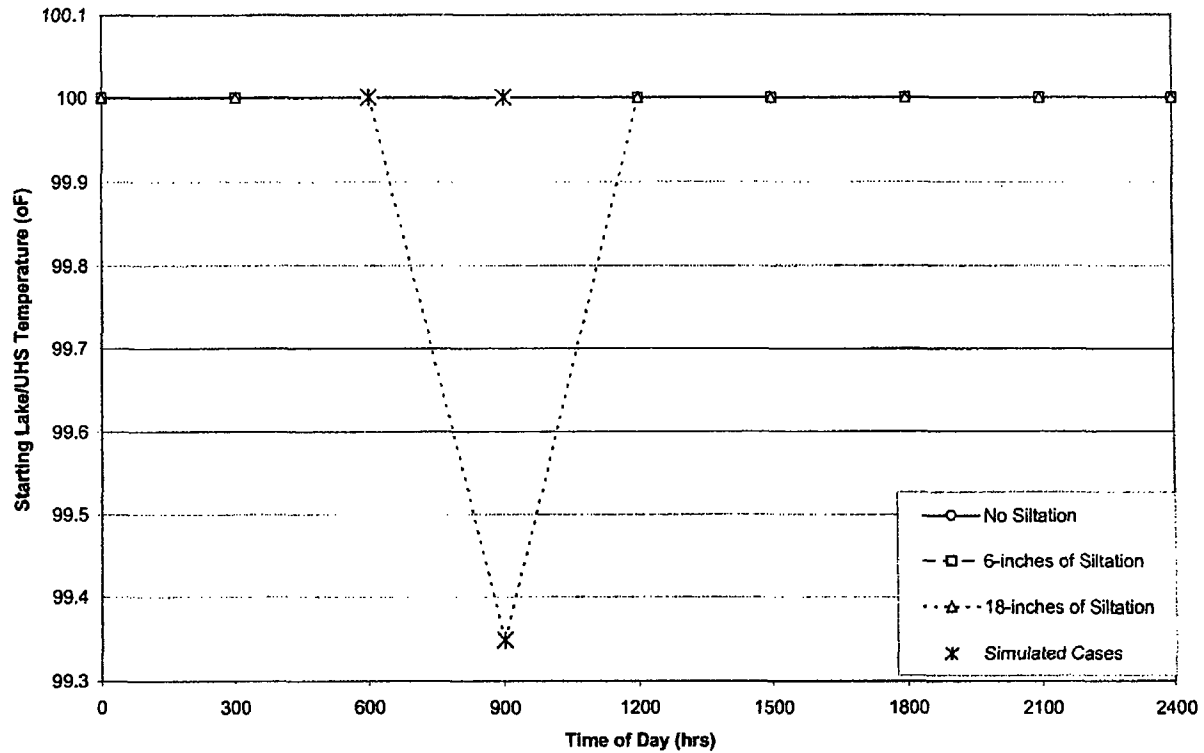


Figure G7.3. Limiting Lake Temperature vs. Time of Day – Recreation of Figure 7.1 from main body of calculation

Program : LAKET
Number : 03.7.292-2.0 0
Created : 07/18/2001 13:58:10

Page : 1
Date : 05/01/2002
Time : 08:29:23.71

Case 1: LaSalle UHS (09:00, Worst Day Temp; Ti=100F, 0')

1					
2	070100	080500	1	1	0
3	1	20.			
4	1	0.2	5500.	0	
5	690.	690.	1.	6	
	83.83	464.9	75.45	418.4	
	82.15	381.9	73.94	343.7	
	80.55	300.5	72.50	270.5	
	78.96	220.8	71.06	198.7	
	77.33	142.6	69.60	128.4	
	29.70	71.7	26.73	65.6	
7	1	0			
8	100.0	95.5			
999					
FPLANT	R/I	86.0			
TPRISE	S/I				
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28.95					
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Page : 2
Date : 05/01/2002
Time : 08:29:23.74

PROJECT NO. 11333-297

Page : 3
Date : 05/01/2002
Time : 08:29:23.75

PROJECT NO. 11333-297

Program : LAKET
Number : 03.7.292-2.0 O
Created : 07/18/2001 13:58:10

Page : 4
Date : 05/01/2002
Time : 08:29:23.75

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Page : 5
Date : 05/01/2002
Time : 08:29:23.75

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Date : 05/01/2002
Time : 08:29:23.75

PROJECT NO. 11333-297

Program : LAKET
Number : 03.7.292-2.0 0
Created : 07/18/2001 13:58:10

Page : 7
Date : 05/01/2002
Time : 08:29:23.79

Case 1: LaSalle UHS (09:00, Worst Day Temp; Ti=100F, 0')

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	83.830	464.900	75.450	418.400
689.000	82.150	381.900	73.940	343.700
688.000	80.550	300.500	72.500	270.500
687.000	78.960	220.800	71.060	198.700
686.000	77.330	142.600	69.600	128.400
685.000	29.700	71.700	26.730	65.600

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 100.00 95.50

WEATHER STATION ID 0.

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Date : 05/01/2002
Time : 08:29:23.86

PROJECT NO. 11333-297

PROJECT NO. 11333-297

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

Page : 9
 Date : 05/01/2002
 Time : 08:29:23.96

Case 1: LaSalle UHS (09:00, Worst Day Temp; Ti=100F, Q')

SEASONAL SUMMARY FOR SUMMER (6/1900 ~ 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.18	-0.16	-0.18
TOTAL EVAP (CFS)	0.00	-1.40	-1.32	-1.39
NATURAL EVAP (CFS)	0.00	-0.77	-0.76	-0.77
FORCED EVAP (CFS)	0.00	-0.63	-0.56	-0.62
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.35	688.74	689.27
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	82.75	81.73	82.61
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	212.81	206.06
SURF LOSS (BTU/HR-FT2)	0.00	151.26	155.47	151.85
EVAP LOSS (BTU/HR-FT2)	0.00	49.88	49.55	49.83
COND LOSS (BTU/HR-FT2)	0.00	6.81	7.39	6.89
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	88.84	92.64	89.37
LAKE TEMP @ INLET (F)	0.00	99.85	101.85	100.13
LAKE TEMP @ OUTLET (F)	0.00	90.01	93.56	90.50

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.0	95.8	89.0
LAKE TEMP @ INLET (F)	130.0	108.0	99.4
LAKE TEMP @ OUTLET (F)	101.0	96.8	90.2

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

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 Date : 05/01/2002
 Time : 08:29:23.96

Case 1: LaSalle UHS (09:00, Worst Day Temp; Ti=100F, 0')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.18	-0.16	-0.18
TOTAL EVAP (CFS)	0.00	-1.40	-1.32	-1.39
NATURAL EVAP (CFS)	0.00	-0.77	-0.76	-0.77
FORCED EVAP (CFS)	0.00	-0.63	-0.56	-0.62
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.35	688.74	689.27
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	82.75	81.73	82.61
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	212.81	206.06
SURF LOSS (BTU/HR-FT2)	0.00	151.26	155.47	151.85
EVAP LOSS (BTU/HR-FT2)	0.00	49.88	49.55	49.83
COND LOSS (BTU/HR-FT2)	0.00	6.81	7.39	6.89
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	88.84	92.64	89.37
LAKE TEMP @ INLET (F)	0.00	99.85	101.85	100.13
LAKE TEMP @ OUTLET (F)	0.00	90.01	93.56	90.50

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.0	95.8	89.0
LAKE TEMP @ INLET (F)	130.0	108.0	99.4
LAKE TEMP @ OUTLET (F)	101.0	96.8	90.2

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

Page : 11
 Date : 05/01/2002
 Time : 08:29:23.96

Case 1: LaSalle UHS (09:00, Worst Day Temp; Ti=100F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM		MINIMUM		AVERAGE
	VALUE (	DATE)	VALUE (	DATE)	
LAKE SEEPAGE (CFS)	-0.16 (	8051900)	-0.20 (	7011900)	-0.18
TOTAL EVAP (CFS)	-0.25 (	8041900)	-4.67 (	7031900)	-1.39
NATURAL EVAP (CFS)	0.00 (	7011900)	-3.62 (	7031900)	-0.77
FORCED EVAP (CFS)	-0.25 (	8041900)	-1.78 (	7011900)	-0.62
PRECIPITATION (CFS)	0.00 (	7011900)	0.00 (	7011900)	0.00
MAKEUP (CFS)	0.00 (	7011900)	0.00 (	7011900)	0.00
BLOWDOWN (CFS)	0.00 (	7011900)	0.00 (	7011900)	0.00
RUNOFF (CFS)	0.00 (	7011900)	0.00 (	7011900)	0.00
DAM SPILL (CFS)	0.00 (	7011900)	0.00 (	7011900)	0.00
LAKE ELEVATION (FEET)	689.99 (	7011900)	688.64 (	8051900)	689.27
DISSOLVED SOLIDS (PPM)	0.00 (	7011900)	0.00 (	7011900)	0.00
LAKE TOTAL AREA (ACRE)	83.82 (	7011900)	81.58 (	8051900)	82.61
SOLAR GAIN (BTU/HR-FT2)	426.50 (	7011900)	97.95 (	7041900)	206.06
SURF LOSS (BTU/HR-FT2)	162.37 (	7011900)	144.64 (	7061900)	151.85
EVAP LOSS (BTU/HR-FT2)	231.58 (	7031900)	0.00 (	7011900)	49.83
COND LOSS (BTU/HR-FT2)	39.22 (	7261900)	-6.56 (	7261900)	6.89
CIRCULATION TIME (HR)	0.00 (	7011900)	0.00 (	7011900)	0.00
LAKE TEMP NATURAL (F)	98.68 (	7011900)	82.77 (	7061900)	89.37
LAKE TEMP @ INLET (F)	135.93 (	7011900)	93.43 (	7251900)	100.13
LAKE TEMP @ OUTLET (F)	101.55 (	7011900)	84.35 (	7061900)	90.50
TEMPERATURE	FREQUENCY OF OCCURENCES				
	1%	5%	50%		
LAKE TEMP NATURAL (F)	98.0	95.8	89.0		
LAKE TEMP @ INLET (F)	130.0	108.0	99.4		
LAKE TEMP @ OUTLET (F)	101.0	96.8	90.2		

Program : LAKET
Number : 03.7.292-2.0 0
Created : 07/18/2001 13:58:10

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Date : 05/01/2002
Time : 08:42:35.06

Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

1					
2	070100	080500	1	1	0
3	1	20.			
4	1	0.2	5500.	0	
5	690.	690.	1.	6	
	82.99	423.5	74.69	381.2	
	81.35	341.4	73.21	307.2	
	79.75	260.8	71.78	234.7	
	78.15	181.9	70.34	163.7	
	29.70	102.2	26.73	92.0	
	22.22	60.0	20.00	54.0	
7	1	0			
8	100.0	95.5			
999					
FPLANT	R/I	86.0			
TPRISE	S/I				
35.48					
28.95					
16.79					
16.39					
15.42					
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Page : 2
Date : 05/01/2002
Time : 08:42:35.08

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Date : 05/01/2002
Time : 08:42:35.08

[illegible]

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Date : 05/01/2002
Time : 08:42:35.08

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Date : 05/01/2002
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Date : 05/01/2002
Time : 08:42:35.08

[illegible]

Program : LAKET
Number : 03.7.292-2.0 0
Created : 07/18/2001 13:58:10

Page : 7
Date : 05/01/2002
Time : 08:42:35.09

Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	82.990	423.500	74.690	381.200
689.000	81.350	341.400	73.210	307.200
688.000	79.750	260.800	71.780	234.700
687.000	78.150	181.900	70.340	163.700
686.000	29.700	102.200	26.730	92.000
685.000	22.220	60.000	20.000	54.000

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 100.00 95.50

WEATHER STATION ID 0.


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Program : LAKET
Number  : 03.7.292-2.0 0
Created : 07/18/2001 13:58:10
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Date : 05/01/2002
Time : 08:42:35.09

Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

[illegible]

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

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 Date : 05/01/2002
 Time : 08:42:35.19

Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.17	-0.15	-0.17
TOTAL EVAP (CFS)	0.00	-1.64	-1.32	-1.59
NATURAL EVAP (CFS)	0.00	-0.98	-0.77	-0.95
FORCED EVAP (CFS)	0.00	-0.65	-0.56	-0.64
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.28	688.55	689.18
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	81.81	80.64	81.65
SOLAR GAIN (BTU/HR-FT2)	0.00	219.94	214.31	219.16
SURF LOSS (BTU/HR-FT2)	0.00	153.58	152.11	153.38
EVAP LOSS (BTU/HR-FT2)	0.00	64.35	50.88	62.48
COND LOSS (BTU/HR-FT2)	0.00	5.32	5.08	5.29
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	90.93	89.62	90.75
LAKE TEMP @ INLET (F)	0.00	101.64	98.87	101.26
LAKE TEMP @ OUTLET (F)	0.00	91.80	90.60	91.64

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.0	96.6	90.9
LAKE TEMP @ INLET (F)	130.0	110.1	101.0
LAKE TEMP @ OUTLET (F)	101.0	97.7	91.8

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

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 Date : 05/01/2002
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Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.17	-0.15	-0.17
TOTAL EVAP (CFS)	0.00	-1.64	-1.32	-1.59
NATURAL EVAP (CFS)	0.00	-0.98	-0.77	-0.95
FORCED EVAP (CFS)	0.00	-0.65	-0.56	-0.64
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.28	688.55	689.18
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	81.81	80.64	81.65
SOLAR GAIN (BTU/HR-FT2)	0.00	219.94	214.31	219.16
SURF LOSS (BTU/HR-FT2)	0.00	153.58	152.11	153.38
EVAP LOSS (BTU/HR-FT2)	0.00	64.35	50.88	62.48
COND LOSS (BTU/HR-FT2)	0.00	5.32	5.08	5.29
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	90.93	89.62	90.75
LAKE TEMP @ INLET (F)	0.00	101.64	98.87	101.26
LAKE TEMP @ OUTLET (F)	0.00	91.80	90.60	91.64
TEMPERATURE FREQUENCY OF OCCURENCES				
	1%	5%	50%	
LAKE TEMP NATURAL (F)	98.0	96.6	90.9	
LAKE TEMP @ INLET (F)	130.0	110.1	101.0	
LAKE TEMP @ OUTLET (F)	101.0	97.7	91.8	

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

Page : 11
 Date : 05/01/2002
 Time : 08:42:35.19

Case 2: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; Ti=100F, 0.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
TOTAL EVAP (CFS)	-0.32 (8051900)	-4.11 (7051900)	-1.59
NATURAL EVAP (CFS)	0.00 (7031900)	-2.71 (7051900)	-0.95
FORCED EVAP (CFS)	-0.27 (7311900)	-1.65 (7011900)	-0.64
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.46 (8051900)	689.18
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA (ACRE)	82.98 (7011900)	80.48 (8051900)	81.65
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	162.49 (7011900)	143.55 (7241900)	153.38
EVAP LOSS (BTU/HR-FT2)	174.75 (7051900)	0.00 (7031900)	62.48
COND LOSS (BTU/HR-FT2)	25.44 (7051900)	-31.64 (7251900)	5.29
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL (F)	98.78 (7011900)	81.73 (7241900)	90.75
LAKE TEMP @ INLET (F)	135.36 (7011900)	91.03 (7241900)	101.26
LAKE TEMP @ OUTLET (F)	101.78 (7011900)	82.46 (7241900)	91.64
TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.0	96.6	90.9
LAKE TEMP @ INLET (F)	130.0	110.1	101.0
LAKE TEMP @ OUTLET (F)	101.0	97.7	91.8

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

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 Time : 08:55:01.87

Case 3: LaSalle UHS (09:00, Worst Day Temp; Ti=99.35F, 1.5')

1				
2	070100	080500	1	1 0
3	1	20.		
4	1	0.2	5500.	0
5	690.	690.	1.	6
	81.35	341.4	73.21	307.2
	79.75	260.8	71.78	234.7
	78.15	181.9	70.34	163.7
	29.70	102.2	26.73	92.0
	22.22	60.0	20.00	54.0
	13.42	43.8	12.08	39.4
7	1	0		
8	99.35	94.85		
999				
FPLANT	R/I	86.0		
TFRISE	S/I			
35.48				
28.95				
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Page : 2
Date : 05/01/2002
Time : 08:55:01.88

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Page : 3
Date : 05/01/2002
Time : 08:55:01.88

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Page : 4
Date : 05/01/2002
Time : 08:55:01.88

PROJECT NO. 11333-297

Page : 5
Date : 05/01/2002
Time : 08:55:01.88

PROJECT NO. 11333-297

Page : 6
Date : 05/01/2002
Time : 08:55:01.88

PROJECT NO. 11333-297

Program : LAKET
Number : 03.7.292-2.0 0
Created : 07/18/2001 13:58:10

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Date : 05/01/2002
Time : 08:55:01.88

Case 3: LaSalle UHS (09:00, Worst Day Temp; Ti=99.35F, 1.5')

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	81.350	341.400	73.210	307.200
689.000	79.750	260.800	71.780	234.700
688.000	78.150	181.900	70.340	163.700
687.000	29.700	102.200	26.730	92.000
686.000	22.220	60.000	20.000	54.000
685.000	13.420	43.800	12.080	39.400

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 99.35 94.85

WEATHER STATION ID 0.

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PROJECT NO. 11333-297

[illegible]

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

Page : 9
 Date : 05/01/2002
 Time : 08:55:01.98

Case 3: LaSalle UHS (09:00, Worst Day Temp; Ti=99.35F, 1.5')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.17	-0.14	-0.17
TOTAL EVAP (CFS)	0.00	-1.37	-1.32	-1.37
NATURAL EVAP (CFS)	0.00	-0.74	-0.76	-0.74
FORCED EVAP (CFS)	0.00	-0.63	-0.56	-0.62
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.35	688.73	689.27
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	80.32	79.32	80.18
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	212.81	206.06
SURF LOSS (BTU/HR-FT2)	0.00	151.01	155.92	151.69
EVAP LOSS (BTU/HR-FT2)	0.00	49.41	51.16	49.66
COND LOSS (BTU/HR-FT2)	0.00	6.67	7.69	6.81
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	88.61	93.03	89.22
LAKE TEMP @ INLET (F)	0.00	99.37	101.78	99.70
LAKE TEMP @ OUTLET (F)	0.00	89.55	93.51	90.10

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	130.0	106.8	99.2
LAKE TEMP @ OUTLET (F)	101.0	96.9	89.9

Program : LAKET
 Number : 03.7.292-2.0 0
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Case 3: LaSalle UHS (09:00, Worst Day Temp; Ti=99.35F, 1.5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.17	-0.14	-0.17
TOTAL EVAP (CFS)	0.00	-1.37	-1.32	-1.37
NATURAL EVAP (CFS)	0.00	-0.74	-0.76	-0.74
FORCED EVAP (CFS)	0.00	-0.63	-0.56	-0.62
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.35	688.73	689.27
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	80.32	79.32	80.18
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	212.81	206.06
SURF LOSS (BTU/HR-FT2)	0.00	151.01	155.92	151.69
EVAP LOSS (BTU/HR-FT2)	0.00	49.41	51.16	49.66
COND LOSS (BTU/HR-FT2)	0.00	6.67	7.69	6.81
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	88.61	93.03	89.22
LAKE TEMP @ INLET (F)	0.00	99.37	101.78	99.70
LAKE TEMP @ OUTLET (F)	0.00	89.55	93.51	90.10

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	130.0	106.8	99.2
LAKE TEMP @ OUTLET (F)	101.0	96.9	89.9

Program : LAKET
 Number : 03.7.292-2.0 O
 Created : 07/18/2001 13:58:10

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Case 3: LaSalle UHS (09:00, Worst Day Temp; Ti=99.35F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
TOTAL EVAP (CFS)	-0.20 (8041900)	-4.34 (7031900)	-1.37
NATURAL EVAP (CFS)	0.00 (7011900)	-3.38 (7031900)	-0.74
FORCED EVAP (CFS)	-0.20 (8041900)	-1.87 (7011900)	-0.62
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.63 (8051900)	689.27
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA (ACRE)	81.34 (7011900)	79.16 (8051900)	80.18
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.06
SURF LOSS (BTU/HR-FT2)	162.86 (7011900)	142.86 (7061900)	151.69
EVAP LOSS (BTU/HR-FT2)	222.86 (7031900)	0.00 (7011900)	49.66
COND LOSS (BTU/HR-FT2)	39.52 (7261900)	-7.05 (7261900)	6.81
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL (F)	99.10 (7011900)	81.09 (7061900)	89.22
LAKE TEMP @ INLET (F)	135.50 (7011900)	92.01 (7251900)	99.70
LAKE TEMP @ OUTLET (F)	101.98 (7011900)	82.17 (7061900)	90.10
TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	130.0	106.8	99.2
LAKE TEMP @ OUTLET (F)	101.0	96.9	89.9

Program : LAKET
Number : 03.7.292-2.0 0
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Case 4: LaSalle UHS (06:00, Worst Day Temp; Ti=100F, 1.5')

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1
2      070100 080500 1      1      0
3      1      20.
4      1      0.2      5500.      0
5      690.      690.      1.      6
      81.35      341.4      73.21      307.2
      79.75      260.8      71.78      234.7
      78.15      181.9      70.34      163.7
      29.70      102.2      26.73      92.0
      22.22      60.0      20.00      54.0
      13.42      43.8      12.08      39.4
7      1      0
8      100.0      95.5
999
FPLANT R/I      86.0
TPRISE S/I
35.48
28.95
16.79
16.39
15.42
15.06
14.61
14.36
13.95
13.52
13.36
13.36
13.36
13.36
13.30
12.79
12.79
12.50
12.50
12.30
12.09
12.09
12.09
12.09
12.08
11.56
11.56
11.56
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11.56
11.16
11.15
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[illegible]


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Program : LAKET
Number  : 03.7.292-2.0 O
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[illegible]

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PROJECT NO. 11333-297

Program : LAKET
Number : 03.7.292-2.0 0
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Case 4: LaSalle UHS (06:00, Worst Day Temp; Ti=100F, 1.5')

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

INITIAL LAKE ELEVATION = 690.00

DRANDOWN CURVE.

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	81.350	341.400	73.210	307.200
689.000	79.750	260.800	71.780	234.700
688.000	78.150	181.900	70.340	163.700
687.000	29.700	102.200	26.730	92.000
686.000	22.220	60.000	20.000	54.000
685.000	13.420	43.800	12.080	39.400

PLOT FILE FREQ 1 INCREMENTS AT 0 HOURS

INITIAL FORCED/NATURAL LAKE TEMPS. = 100.00 95.50

WEATHER STATION ID 0.

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Case 4: LaSalle UHS (06:00, Worst Day Temp; Ti=100F, 1.5')

FPLANT

70100 -	80500	R/I	86.000
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TPRISE

[illegible]

PROJECT NO. 11333-297

Program : LAKET
 Number : 03.7.292-2.0 0
 Created : 07/18/2001 13:58:10

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 Date : 05/01/2002
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Case 4: LaSalle UHS (06:00, Worst Day Temp; Ti=100F, 1.5')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.17	-0.14	-0.17
TOTAL EVAP (CFS)	0.00	-1.37	-1.30	-1.36
NATURAL EVAP (CFS)	0.00	-0.74	-0.74	-0.74
FORCED EVAP (CFS)	0.00	-0.63	-0.56	-0.62
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.35	688.73	689.27
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	80.32	79.32	80.18
SOLAR GAIN (BTU/HR-FT2)	0.00	205.07	213.07	206.18
SURF LOSS (BTU/HR-FT2)	0.00	151.06	155.97	151.74
EVAP LOSS (BTU/HR-FT2)	0.00	49.46	50.01	49.53
COND LOSS (BTU/HR-FT2)	0.00	6.67	7.41	6.78
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	88.65	93.07	89.26
LAKE TEMP @ INLET (F)	0.00	99.40	101.85	99.74
LAKE TEMP @ OUTLET (F)	0.00	89.58	93.58	90.14

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	128.0	108.0	99.2
LAKE TEMP @ OUTLET (F)	101.0	97.1	89.9

Program : LAKET
 Number : 03.7.292-2.0 0
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Case 4: LaSalle UHS (06:00, Worst Day Temp; Ti=100F, 1.5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
LAKE SEEPAGE (CFS)	0.00	-0.17	-0.14	-0.17
TOTAL EVAP (CFS)	0.00	-1.37	-1.30	-1.36
NATURAL EVAP (CFS)	0.00	-0.74	-0.74	-0.74
FORCED EVAP (CFS)	0.00	-0.63	-0.56	-0.62
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP (CFS)	0.00	0.00	0.00	0.00
BLOWDOWN (CFS)	0.00	0.00	0.00	0.00
RUNOFF (CFS)	0.00	0.00	0.00	0.00
DAM SPILL (CFS)	0.00	0.00	0.00	0.00
LAKE ELEVATION (FEET)	0.00	689.35	688.73	689.27
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00
LAKE TOTAL AREA (ACRE)	0.00	80.32	79.32	80.18
SOLAR GAIN (BTU/HR-FT2)	0.00	205.07	213.07	206.18
SURF LOSS (BTU/HR-FT2)	0.00	151.06	155.97	151.74
EVAP LOSS (BTU/HR-FT2)	0.00	49.46	50.01	49.53
COND LOSS (BTU/HR-FT2)	0.00	6.67	7.41	6.78
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
LAKE TEMP NATURAL (F)	0.00	88.65	93.07	89.26
LAKE TEMP @ INLET (F)	0.00	99.40	101.85	99.74
LAKE TEMP @ OUTLET (F)	0.00	89.58	93.58	90.14

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	128.0	108.0	99.2
LAKE TEMP @ OUTLET (F)	101.0	97.1	89.9

Program : LAKET
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 Date : 05/01/2002
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Case 4: LaSalle URS (06:00, Worst Day Temp; Ti=100F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
LAKE SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
TOTAL EVAP (CFS)	-0.20 (8041900)	-4.34 (7031900)	-1.36
NATURAL EVAP (CFS)	0.00 (7011900)	-3.39 (7031900)	-0.74
FORCED EVAP (CFS)	-0.20 (8041900)	-1.82 (7011900)	-0.62
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
BLOWDOWN (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
RUNOFF (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
DAM SPILL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.63 (8051900)	689.27
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TOTAL AREA (ACRE)	81.34 (7011900)	79.17 (8051900)	80.18
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.18
SURF LOSS (BTU/HR-FT2)	163.09 (7011900)	142.86 (7071900)	151.74
EVAP LOSS (BTU/HR-FT2)	223.45 (7031900)	0.00 (7011900)	49.53
COND LOSS (BTU/HR-FT2)	39.52 (7261900)	-7.06 (7261900)	6.78
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
LAKE TEMP NATURAL (F)	99.30 (7011900)	81.09 (7071900)	89.26
LAKE TEMP @ INLET (F)	133.93 (7011900)	91.99 (7261900)	99.74
LAKE TEMP @ OUTLET (F)	101.80 (7011900)	82.26 (7071900)	90.14

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	98.8	96.3	89.0
LAKE TEMP @ INLET (F)	128.0	108.0	99.2
LAKE TEMP @ OUTLET (F)	101.0	97.1	89.9

Excel Formulas for Table G7.1 Plant Temperature Rise

	A	B	C	D	E	F	G	H
1		S Flowrate	86		chs	Mass Flow	=C1*C2*3600	
2		Density	62		lbm/ft3	cp	0.998	lbm/hr
	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
3	0.0000001	3	=D4/G\$1/G\$2	=E4/(B4-A4)	=F4	=G4+H4	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B4)	=TotalE2/2
5	=B4	=B4+3	=D5/G\$1/G\$2	=E5/(B5-A5)	=F5-F4	=G5+H5	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B5)	=TotalE3
6	=B5	=B5+3	=D6/G\$1/G\$2	=E6/(B6-A6)	=F6-F5	=G6+H6	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B6)	=H5
7	=B6	=B6+3	=D7/G\$1/G\$2	=E7/(B7-A7)	=F7-F6	=G7+H7	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B7)	=H6
8	=B7	=B7+3	=D8/G\$1/G\$2	=E8/(B8-A8)	=F8-F7	=G8+H8	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B8)	=H7
9	=B8	=B8+3	=D9/G\$1/G\$2	=E9/(B9-A9)	=F9-F8	=G9+H9	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B9)	=H8
10	=B9	=B9+3	=D10/G\$1/G\$2	=E10/(B10-A10)	=F10-F9	=G10+H10	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B10)	=H9
11	=B10	=B10+3	=D11/G\$1/G\$2	=E11/(B11-A11)	=F11-F10	=G11+H11	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B11)	=H10
12	=B11	=B11+3	=D12/G\$1/G\$2	=E12/(B12-A12)	=F12-F11	=G12+H12	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B12)	=H11
13	=B12	=B12+3	=D13/G\$1/G\$2	=E13/(B13-A13)	=F13-F12	=G13+H13	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B13)	=H12
14	=B13	=B13+3	=D14/G\$1/G\$2	=E14/(B14-A14)	=F14-F13	=G14+H14	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B14)	=H13
15	=B14	=B14+3	=D15/G\$1/G\$2	=E15/(B15-A15)	=F15-F14	=G15+H15	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B15)	=H14
16	=B15	=B15+3	=D16/G\$1/G\$2	=E16/(B16-A16)	=F16-F15	=G16+H16	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B16)	=H15
17	=B16	=B16+3	=D17/G\$1/G\$2	=E17/(B17-A17)	=F17-F16	=G17+H17	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B17)	=H16
18	=B17	=B17+3	=D18/G\$1/G\$2	=E18/(B18-A18)	=F18-F17	=G18+H18	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B18)	=H17
19	=B18	=B18+3	=D19/G\$1/G\$2	=E19/(B19-A19)	=F19-F18	=G19+H19	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B19)	=H18
20	=B19	=B19+3	=D20/G\$1/G\$2	=E20/(B20-A20)	=F20-F19	=G20+H20	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B20)	=H19
21	=B20	=B20+3	=D21/G\$1/G\$2	=E21/(B21-A21)	=F21-F20	=G21+H21	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B21)	=H20
22	=B21	=B21+3	=D22/G\$1/G\$2	=E22/(B22-A22)	=F22-F21	=G22+H22	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B22)	=H21
23	=B22	=B22+3	=D23/G\$1/G\$2	=E23/(B23-A23)	=F23-F22	=G23+H23	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B23)	=H22
24	=B23	=B23+3	=D24/G\$1/G\$2	=E24/(B24-A24)	=F24-F23	=G24+H24	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B24)	=H23
25	=B24	=B24+3	=D25/G\$1/G\$2	=E25/(B25-A25)	=F25-F24	=G25+H25	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B25)	=H24
26	=B25	=B25+3	=D26/G\$1/G\$2	=E26/(B26-A26)	=F26-F25	=G26+H26	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B26)	=H25
27	=B26	=B26+3	=D27/G\$1/G\$2	=E27/(B27-A27)	=F27-F26	=G27+H27	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B27)	=H26
28	=B27	=B27+3	=D28/G\$1/G\$2	=E28/(B28-A28)	=F28-F27	=G28+H28	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B28)	=H27
29	=B28	=B28+3	=D29/G\$1/G\$2	=E29/(B29-A29)	=F29-F28	=G29+H29	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B29)	=H28
30	=B29	=B29+3	=D30/G\$1/G\$2	=E30/(B30-A30)	=F30-F29	=G30+H30	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B30)	=H29
31	=B30	=B30+3	=D31/G\$1/G\$2	=E31/(B31-A31)	=F31-F30	=G31+H31	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B31)	=H30
32	=B31	=B31+3	=D32/G\$1/G\$2	=E32/(B32-A32)	=F32-F31	=G32+H32	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B32)	=H31
33	=B32	=B32+3	=D33/G\$1/G\$2	=E33/(B33-A33)	=F33-F32	=G33+H33	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B33)	=H32
34	=B33	=B33+3	=D34/G\$1/G\$2	=E34/(B34-A34)	=F34-F33	=G34+H34	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B34)	=H33
35	=B34	=B34+3	=D35/G\$1/G\$2	=E35/(B35-A35)	=F35-F34	=G35+H35	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B35)	=H34
36	=B35	=B35+3	=D36/G\$1/G\$2	=E36/(B36-A36)	=F36-F35	=G36+H36	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B36)	=H35
37	=B36	=B36+3	=D37/G\$1/G\$2	=E37/(B37-A37)	=F37-F36	=G37+H37	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B37)	=H36
38	=B37	=B37+3	=D38/G\$1/G\$2	=E38/(B38-A38)	=F38-F37	=G38+H38	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B38)	=H37
39	=B38	=B38+3	=D39/G\$1/G\$2	=E39/(B39-A39)	=F39-F38	=G39+H39	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B39)	=H38
40	=B39	=B39+3	=D40/G\$1/G\$2	=E40/(B40-A40)	=F40-F39	=G40+H40	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B40)	=H39
41	=B40	=B40+3	=D41/G\$1/G\$2	=E41/(B41-A41)	=F41-F40	=G41+H41	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B41)	=H40
42	=B41	=B41+3	=D42/G\$1/G\$2	=E42/(B42-A42)	=F42-F41	=G42+H42	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B42)	=H41
43	=B42	=B42+3	=D43/G\$1/G\$2	=E43/(B43-A43)	=F43-F42	=G43+H43	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B43)	=H42
44	=B43	=B43+3	=D44/G\$1/G\$2	=E44/(B44-A44)	=F44-F43	=G44+H44	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B44)	=H43
45	=B44	=B44+3	=D45/G\$1/G\$2	=E45/(B45-A45)	=F45-F44	=G45+H45	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B45)	=H44
46	=B45	=B45+3	=D46/G\$1/G\$2	=E46/(B46-A46)	=F46-F45	=G46+H46	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B46)	=H45
47	=B46	=B46+3	=D47/G\$1/G\$2	=E47/(B47-A47)	=F47-F46	=G47+H47	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B47)	=H46
48	=B47	=B47+3	=D48/G\$1/G\$2	=E48/(B48-A48)	=F48-F47	=G48+H48	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B48)	=H47
49	=B48	=B48+3	=D49/G\$1/G\$2	=E49/(B49-A49)	=F49-F48	=G49+H49	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B49)	=H48
50	=B49	=B49+3	=D50/G\$1/G\$2	=E50/(B50-A50)	=F50-F49	=G50+H50	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B50)	=H49
51	=B50	=B50+3	=D51/G\$1/G\$2	=E51/(B51-A51)	=F51-F50	=G51+H51	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B51)	=H50
52	=B51	=B51+3	=D52/G\$1/G\$2	=E52/(B52-A52)	=F52-F51	=G52+H52	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B52)	=H51
53	=B52	=B52+3	=D53/G\$1/G\$2	=E53/(B53-A53)	=F53-F52	=G53+H53	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B53)	=H52
54	=B53	=B53+3	=D54/G\$1/G\$2	=E54/(B54-A54)	=F54-F53	=G54+H54	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B54)	=H53
55	=B54	=B54+3	=D55/G\$1/G\$2	=E55/(B55-A55)	=F55-F54	=G55+H55	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B55)	=H54
56	=B55	=B55+3	=D56/G\$1/G\$2	=E56/(B56-A56)	=F56-F55	=G56+H56	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B56)	=H55
57	=B56	=B56+3	=D57/G\$1/G\$2	=E57/(B57-A57)	=F57-F56	=G57+H57	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B57)	=H56
58	=B57	=B57+3	=D58/G\$1/G\$2	=E58/(B58-A58)	=F58-F57	=G58+H58	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B58)	=H57
59	=B58	=B58+3	=D59/G\$1/G\$2	=E59/(B59-A59)	=F59-F58	=G59+H59	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B59)	=H58
60	=B59	=B59+3	=D60/G\$1/G\$2	=E60/(B60-A60)	=F60-F59	=G60+H60	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B60)	=H59
61	=B60	=B60+3	=D61/G\$1/G\$2	=E61/(B61-A61)	=F61-F60	=G61+H61	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B61)	=H60
62	=B61	=B61+3	=D62/G\$1/G\$2	=E62/(B62-A62)	=F62-F61	=G62+H62	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B62)	=H61
63	=B62	=B62+3	=D63/G\$1/G\$2	=E63/(B63-A63)	=F63-F62	=G63+H63	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B63)	=H62
64	=B63	=B63+3	=D64/G\$1/G\$2	=E64/(B64-A64)	=F64-F63	=G64+H64	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B64)	=H63
65	=B64	=B64+3	=D65/G\$1/G\$2	=E65/(B65-A65)	=F65-F64	=G65+H65	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B65)	=H64
66	=B65	=B65+3	=D66/G\$1/G\$2	=E66/(B66-A66)	=F66-F65	=G66+H66	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B66)	=H65
67	=B66	=B66+3	=D67/G\$1/G\$2	=E67/(B67-A67)	=F67-F66	=G67+H67	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B67)	=H66
68	=B67	=B67+3	=D68/G\$1/G\$2	=E68/(B68-A68)	=F68-F67	=G68+H68	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B68)	=H67
69	=B68	=B68+3	=D69/G\$1/G\$2	=E69/(B69-A69)	=F69-F68	=G69+H69	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B69)	=H68
70	=B69	=B69+3	=D70/G\$1/G\$2	=E70/(B70-A70)	=F70-F69	=G70+H70	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B70)	=H69
71	=B70	=B70+3	=D71/G\$1/G\$2	=E71/(B71-A71)	=F71-F70	=G71+H71	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B71)	=H70
72	=B71	=B71+3	=D72/G\$1/G\$2	=E72/(B72-A72)	=F72-F71	=G72+H72	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B72)	=H71
73	=B72	=B72+3	=D73/G\$1/G\$2	=E73/(B73-A73)	=F73-F72	=G73+H73	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B73)	=H72
74	=B73	=B73+3	=D74/G\$1/G\$2	=E74/(B74-A74)	=F74-F73	=G74+H74	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B74)	=H73
75	=B74	=B74+3	=D75/G\$1/G\$2	=E75/(B75-A75)	=F75-F74	=G75+H75	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B75)	=H74
76	=B75	=B75+3	=D76/G\$1/G\$2	=E76/(B76-A76)	=F76-F75	=G76+H76	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B76)	=H75
77	=B76	=B76+3	=D77/G\$1/G\$2	=E77/(B77-A77)	=F77-F76	=G77+H77	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B77)	=H76
78	=B77	=B77+3	=D78/G\$1/G\$2	=E78/(B78-A78)	=F78-F77	=G78+H78	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B78)	=H77
79	=B78	=B78+3	=D79/G\$1/G\$2	=E79/(B79-A79)	=F79-F78	=G79+H79	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B79)	=H78
80	=B79	=B79+3	=D80/G\$1/G\$2	=E80/(B80-A80)	=F80-F79	=G80+H80	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B80)	=H79
81	=B80	=B80+3	=D81/G\$1/G\$2	=E81/(B81-A81)	=F81-F80	=G81+H81	=sinterp2("Total","Total","B2:B73","D2:D73",ROWS(\$B\$2:\$B\$73),B81)	=H80

Excel Formulas for Table G7.1 Plant Temperature Rise

	A	B	C	D	E	F	G	H
	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per TimeStep (BTU/hr)	Heat Added in TimeStep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
3								
82	=B81	=B81+3	=D82/G\$1/G\$2	=E82/(B82-A82)	=F82-F81	=G82+H82	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B82)	=H81
83	=B82	=B82+3	=D83/G\$1/G\$2	=E83/(B83-A83)	=F83-F82	=G83+H83	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B83)	=H82
84	=B83	=B83+3	=D84/G\$1/G\$2	=E84/(B84-A84)	=F84-F83	=G84+H84	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B84)	=H83
85	=B84	=B84+3	=D85/G\$1/G\$2	=E85/(B85-A85)	=F85-F84	=G85+H85	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B85)	=H84
86	=B85	=B85+3	=D86/G\$1/G\$2	=E86/(B86-A86)	=F86-F85	=G86+H86	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B86)	=H85
87	=B86	=B86+3	=D87/G\$1/G\$2	=E87/(B87-A87)	=F87-F86	=G87+H87	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B87)	=H86
88	=B87	=B87+3	=D88/G\$1/G\$2	=E88/(B88-A88)	=F88-F87	=G88+H88	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B88)	=H87
89	=B88	=B88+3	=D89/G\$1/G\$2	=E89/(B89-A89)	=F89-F88	=G89+H89	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B89)	=H88
90	=B89	=B89+3	=D90/G\$1/G\$2	=E90/(B90-A90)	=F90-F89	=G90+H90	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B90)	=H89
91	=B90	=B90+3	=D91/G\$1/G\$2	=E91/(B91-A91)	=F91-F90	=G91+H91	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B91)	=H90
92	=B91	=B91+3	=D92/G\$1/G\$2	=E92/(B92-A92)	=F92-F91	=G92+H92	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B92)	=H91
93	=B92	=B92+3	=D93/G\$1/G\$2	=E93/(B93-A93)	=F93-F92	=G93+H93	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B93)	=H92
94	=B93	=B93+3	=D94/G\$1/G\$2	=E94/(B94-A94)	=F94-F93	=G94+H94	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B94)	=H93
95	=B94	=B94+3	=D95/G\$1/G\$2	=E95/(B95-A95)	=F95-F94	=G95+H95	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B95)	=H94
96	=B95	=B95+3	=D96/G\$1/G\$2	=E96/(B96-A96)	=F96-F95	=G96+H96	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B96)	=H95
97	=B96	=B96+3	=D97/G\$1/G\$2	=E97/(B97-A97)	=F97-F96	=G97+H97	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B97)	=H96
98	=B97	=B97+3	=D98/G\$1/G\$2	=E98/(B98-A98)	=F98-F97	=G98+H98	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B98)	=H97
99	=B98	=B98+3	=D99/G\$1/G\$2	=E99/(B99-A99)	=F99-F98	=G99+H99	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B99)	=H98
100	=B99	=B99+3	=D100/G\$1/G\$2	=E100/(B100-A100)	=F100-F99	=G100+H100	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B100)	=H99
101	=B100	=B100+3	=D101/G\$1/G\$2	=E101/(B101-A101)	=F101-F100	=G101+H101	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B101)	=H100
102	=B101	=B101+3	=D102/G\$1/G\$2	=E102/(B102-A102)	=F102-F101	=G102+H102	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B102)	=H101
103	=B102	=B102+3	=D103/G\$1/G\$2	=E103/(B103-A103)	=F103-F102	=G103+H103	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B103)	=H102
104	=B103	=B103+3	=D104/G\$1/G\$2	=E104/(B104-A104)	=F104-F103	=G104+H104	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B104)	=H103
105	=B104	=B104+3	=D105/G\$1/G\$2	=E105/(B105-A105)	=F105-F104	=G105+H105	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B105)	=H104
106	=B105	=B105+3	=D106/G\$1/G\$2	=E106/(B106-A106)	=F106-F105	=G106+H106	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B106)	=H105
107	=B106	=B106+3	=D107/G\$1/G\$2	=E107/(B107-A107)	=F107-F106	=G107+H107	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B107)	=H106
108	=B107	=B107+3	=D108/G\$1/G\$2	=E108/(B108-A108)	=F108-F107	=G108+H108	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B108)	=H107
109	=B108	=B108+3	=D109/G\$1/G\$2	=E109/(B109-A109)	=F109-F108	=G109+H109	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B109)	=H108
110	=B109	=B109+3	=D110/G\$1/G\$2	=E110/(B110-A110)	=F110-F109	=G110+H110	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B110)	=H109
111	=B110	=B110+3	=D111/G\$1/G\$2	=E111/(B111-A111)	=F111-F110	=G111+H111	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B111)	=H110
112	=B111	=B111+3	=D112/G\$1/G\$2	=E112/(B112-A112)	=F112-F111	=G112+H112	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B112)	=H111
113	=B112	=B112+3	=D113/G\$1/G\$2	=E113/(B113-A113)	=F113-F112	=G113+H113	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B113)	=H112
114	=B113	=B113+3	=D114/G\$1/G\$2	=E114/(B114-A114)	=F114-F113	=G114+H114	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B114)	=H113
115	=B114	=B114+3	=D115/G\$1/G\$2	=E115/(B115-A115)	=F115-F114	=G115+H115	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B115)	=H114
116	=B115	=B115+3	=D116/G\$1/G\$2	=E116/(B116-A116)	=F116-F115	=G116+H116	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B116)	=H115
117	=B116	=B116+3	=D117/G\$1/G\$2	=E117/(B117-A117)	=F117-F116	=G117+H117	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B117)	=H116
118	=B117	=B117+3	=D118/G\$1/G\$2	=E118/(B118-A118)	=F118-F117	=G118+H118	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B118)	=H117
119	=B118	=B118+3	=D119/G\$1/G\$2	=E119/(B119-A119)	=F119-F118	=G119+H119	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B119)	=H118
120	=B119	=B119+3	=D120/G\$1/G\$2	=E120/(B120-A120)	=F120-F119	=G120+H120	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B120)	=H119
121	=B120	=B120+3	=D121/G\$1/G\$2	=E121/(B121-A121)	=F121-F120	=G121+H121	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B121)	=H120
122	=B121	=B121+3	=D122/G\$1/G\$2	=E122/(B122-A122)	=F122-F121	=G122+H122	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B122)	=H121
123	=B122	=B122+3	=D123/G\$1/G\$2	=E123/(B123-A123)	=F123-F122	=G123+H123	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B123)	=H122
124	=B123	=B123+3	=D124/G\$1/G\$2	=E124/(B124-A124)	=F124-F123	=G124+H124	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B124)	=H123
125	=B124	=B124+3	=D125/G\$1/G\$2	=E125/(B125-A125)	=F125-F124	=G125+H125	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B125)	=H124
126	=B125	=B125+3	=D126/G\$1/G\$2	=E126/(B126-A126)	=F126-F125	=G126+H126	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B126)	=H125
127	=B126	=B126+3	=D127/G\$1/G\$2	=E127/(B127-A127)	=F127-F126	=G127+H127	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B127)	=H126
128	=B127	=B127+3	=D128/G\$1/G\$2	=E128/(B128-A128)	=F128-F127	=G128+H128	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B128)	=H127
129	=B128	=B128+3	=D129/G\$1/G\$2	=E129/(B129-A129)	=F129-F128	=G129+H129	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B129)	=H128
130	=B129	=B129+3	=D130/G\$1/G\$2	=E130/(B130-A130)	=F130-F129	=G130+H130	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B130)	=H129
131	=B130	=B130+3	=D131/G\$1/G\$2	=E131/(B131-A131)	=F131-F130	=G131+H131	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B131)	=H130
132	=B131	=B131+3	=D132/G\$1/G\$2	=E132/(B132-A132)	=F132-F131	=G132+H132	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B132)	=H131
133	=B132	=B132+3	=D133/G\$1/G\$2	=E133/(B133-A133)	=F133-F132	=G133+H133	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B133)	=H132
134	=B133	=B133+3	=D134/G\$1/G\$2	=E134/(B134-A134)	=F134-F133	=G134+H134	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B134)	=H133
135	=B134	=B134+3	=D135/G\$1/G\$2	=E135/(B135-A135)	=F135-F134	=G135+H135	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B135)	=H134
136	=B135	=B135+3	=D136/G\$1/G\$2	=E136/(B136-A136)	=F136-F135	=G136+H136	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B136)	=H135
137	=B136	=B136+3	=D137/G\$1/G\$2	=E137/(B137-A137)	=F137-F136	=G137+H137	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B137)	=H136
138	=B137	=B137+3	=D138/G\$1/G\$2	=E138/(B138-A138)	=F138-F137	=G138+H138	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B138)	=H137
139	=B138	=B138+3	=D139/G\$1/G\$2	=E139/(B139-A139)	=F139-F138	=G139+H139	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B139)	=H138
140	=B139	=B139+3	=D140/G\$1/G\$2	=E140/(B140-A140)	=F140-F139	=G140+H140	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B140)	=H139
141	=B140	=B140+3	=D141/G\$1/G\$2	=E141/(B141-A141)	=F141-F140	=G141+H141	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B141)	=H140
142	=B141	=B141+3	=D142/G\$1/G\$2	=E142/(B142-A142)	=F142-F141	=G142+H142	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B142)	=H141
143	=B142	=B142+3	=D143/G\$1/G\$2	=E143/(B143-A143)	=F143-F142	=G143+H143	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B143)	=H142
144	=B143	=B143+3	=D144/G\$1/G\$2	=E144/(B144-A144)	=F144-F143	=G144+H144	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B144)	=H143
145	=B144	=B144+3	=D145/G\$1/G\$2	=E145/(B145-A145)	=F145-F144	=G145+H145	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B145)	=H144
146	=B145	=B145+3	=D146/G\$1/G\$2	=E146/(B146-A146)	=F146-F145	=G146+H146	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B146)	=H145
147	=B146	=B146+3	=D147/G\$1/G\$2	=E147/(B147-A147)	=F147-F146	=G147+H147	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B147)	=H146
148	=B147	=B147+3	=D148/G\$1/G\$2	=E148/(B148-A148)	=F148-F147	=G148+H148	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B148)	=H147
149	=B148	=B148+3	=D149/G\$1/G\$2	=E149/(B149-A149)	=F149-F148	=G149+H149	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B149)	=H148
150	=B149	=B149+3	=D150/G\$1/G\$2	=E150/(B150-A150)	=F150-F149	=G150+H150	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B150)	=H149
151	=B150	=B150+3	=D151/G\$1/G\$2	=E151/(B151-A151)	=F151-F150	=G151+H151	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B151)	=H150
152	=B151	=B151+3	=D152/G\$1/G\$2	=E152/(B152-A152)	=F152-F151	=G152+H152	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B152)	=H151
153	=B152	=B152+3	=D153/G\$1/G\$2	=E153/(B153-A153)	=F153-F152	=G153+H153	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B153)	=H152
154	=B153	=B153+3	=D154/G\$1/G\$2	=E154/(B154-A154)	=F154-F153	=G154+H154	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B154)	=H153
155	=B154	=B154+3	=D155/G\$1/G\$2	=E155/(B155-A155)	=F155-F154	=G155+H155	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B155)	=H154
156	=B155	=B155+3	=D156/G\$1/G\$2	=E156/(B156-A156)	=F156-F155	=G156+H156	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B156)	=H155
157	=B156	=B156+3	=D157/G\$1/G\$2	=E157/(B157-A157)	=F157-F156	=G157+H157	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B157)	=H156
158	=B157	=B157+3	=D158/G\$1/G\$2	=E158/(B158-A158)	=F158-F157	=G158+H158	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B158)	=H157
159	=B158	=B158+3	=D159/G\$1/G\$2	=E159/(B159-A159)	=F159-F158	=G159+H159	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B159)	=H158
160	=B159	=B159+3	=D160/G\$1/G\$2	=E160/(B160-A160)	=F160-F159	=G160+H160	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B160)	=H159
161	=B160	=B160+3	=D161/G\$1/G\$2	=E161/(B161-A161)	=F161-F160	=G161+H161	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B161)	=H160

	A	B	C	D	E	F	G	H
	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestamp (BTU/hr)	Heat Added in Timestamp (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
3								
162	=B161	=B161+3	=D162/G\$1/G\$2	=E162/(B162-A162)	=F162-F161	=G162+H162	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B162)	=H161
163	=B162	=B162+3	=D163/G\$1/G\$2	=E163/(B163-A163)	=F163-F162	=G163+H163	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B163)	=H162
164	=B163	=B163+3	=D164/G\$1/G\$2	=E164/(B164-A164)	=F164-F163	=G164+H164	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B164)	=H163
165	=B164	=B164+3	=D165/G\$1/G\$2	=E165/(B165-A165)	=F165-F164	=G165+H165	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B165)	=H164
166	=B165	=B165+3	=D166/G\$1/G\$2	=E166/(B166-A166)	=F166-F165	=G166+H166	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B166)	=H165
167	=B166	=B166+3	=D167/G\$1/G\$2	=E167/(B167-A167)	=F167-F166	=G167+H167	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B167)	=H166
168	=B167	=B167+3	=D168/G\$1/G\$2	=E168/(B168-A168)	=F168-F167	=G168+H168	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B168)	=H167
169	=B168	=B168+3	=D169/G\$1/G\$2	=E169/(B169-A169)	=F169-F168	=G169+H169	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B169)	=H168
170	=B169	=B169+3	=D170/G\$1/G\$2	=E170/(B170-A170)	=F170-F169	=G170+H170	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B170)	=H169
171	=B170	=B170+3	=D171/G\$1/G\$2	=E171/(B171-A171)	=F171-F170	=G171+H171	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B171)	=H170
172	=B171	=B171+3	=D172/G\$1/G\$2	=E172/(B172-A172)	=F172-F171	=G172+H172	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B172)	=H171
173	=B172	=B172+3	=D173/G\$1/G\$2	=E173/(B173-A173)	=F173-F172	=G173+H173	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B173)	=H172
174	=B173	=B173+3	=D174/G\$1/G\$2	=E174/(B174-A174)	=F174-F173	=G174+H174	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B174)	=H173
175	=B174	=B174+3	=D175/G\$1/G\$2	=E175/(B175-A175)	=F175-F174	=G175+H175	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B175)	=H174
176	=B175	=B175+3	=D176/G\$1/G\$2	=E176/(B176-A176)	=F176-F175	=G176+H176	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B176)	=H175
177	=B176	=B176+3	=D177/G\$1/G\$2	=E177/(B177-A177)	=F177-F176	=G177+H177	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B177)	=H176
178	=B177	=B177+3	=D178/G\$1/G\$2	=E178/(B178-A178)	=F178-F177	=G178+H178	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B178)	=H177
179	=B178	=B178+3	=D179/G\$1/G\$2	=E179/(B179-A179)	=F179-F178	=G179+H179	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B179)	=H178
180	=B179	=B179+3	=D180/G\$1/G\$2	=E180/(B180-A180)	=F180-F179	=G180+H180	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B180)	=H179
181	=B180	=B180+3	=D181/G\$1/G\$2	=E181/(B181-A181)	=F181-F180	=G181+H181	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B181)	=H180
182	=B181	=B181+3	=D182/G\$1/G\$2	=E182/(B182-A182)	=F182-F181	=G182+H182	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B182)	=H181
183	=B182	=B182+3	=D183/G\$1/G\$2	=E183/(B183-A183)	=F183-F182	=G183+H183	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B183)	=H182
184	=B183	=B183+3	=D184/G\$1/G\$2	=E184/(B184-A184)	=F184-F183	=G184+H184	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B184)	=H183
185	=B184	=B184+3	=D185/G\$1/G\$2	=E185/(B185-A185)	=F185-F184	=G185+H185	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B185)	=H184
186	=B185	=B185+3	=D186/G\$1/G\$2	=E186/(B186-A186)	=F186-F185	=G186+H186	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B186)	=H185
187	=B186	=B186+3	=D187/G\$1/G\$2	=E187/(B187-A187)	=F187-F186	=G187+H187	=sinterp2("Total", "Total", "B2.B73", "D2.D73", ROWS(\$B\$2:\$B\$73), B187)	=H186
188	=B187	=B187+3	=D188/G\$1/G\$2	=E188/(B188-A188)	=F188-F187	=G188+H188	=sinterp2("Total", "Total", "B2.B73", "D2.D7	

Excel Formulas for Table G7.1 Plant Temperature Rise

	A	B	C	D	E	F	G	H
	Starting Time (hr)	Ending Time (hr)	Plant Temperature Rise (Deg F)	Heat Rate per Timestep (BTU/hr)	Heat Added in Timestep (BTU)	Total Heat Added (BTU)	Generated Heat Added (BTU)	Sensible Heat Added (BTU)
3								
242	=B241	=B241+3	=D242/G51/G52	=E242/(B242-A242)	=F242-F241	=G242+H242	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B242)	=H241
243	=B242	=B242+3	=D243/G51/G52	=E243/(B243-A243)	=F243-F242	=G243+H243	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B243)	=H242
244	=B243	=B243+3	=D244/G51/G52	=E244/(B244-A244)	=F244-F243	=G244+H244	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B244)	=H243
245	=B244	=B244+3	=D245/G51/G52	=E245/(B245-A245)	=F245-F244	=G245+H245	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B245)	=H244
246	=B245	=B245+3	=D246/G51/G52	=E246/(B246-A246)	=F246-F245	=G246+H246	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B246)	=H245
247	=B246	=B246+3	=D247/G51/G52	=E247/(B247-A247)	=F247-F246	=G247+H247	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B247)	=H246
248	=B247	=B247+3	=D248/G51/G52	=E248/(B248-A248)	=F248-F247	=G248+H248	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B248)	=H247
249	=B248	=B248+3	=D249/G51/G52	=E249/(B249-A249)	=F249-F248	=G249+H249	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B249)	=H248
250	=B249	=B249+3	=D250/G51/G52	=E250/(B250-A250)	=F250-F249	=G250+H250	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B250)	=H249
251	=B250	=B250+3	=D251/G51/G52	=E251/(B251-A251)	=F251-F250	=G251+H251	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B251)	=H250
252	=B251	=B251+3	=D252/G51/G52	=E252/(B252-A252)	=F252-F251	=G252+H252	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B252)	=H251
253	=B252	=B252+3	=D253/G51/G52	=E253/(B253-A253)	=F253-F252	=G253+H253	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B253)	=H252
254	=B253	=B253+3	=D254/G51/G52	=E254/(B254-A254)	=F254-F253	=G254+H254	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B254)	=H253
255	=B254	=B254+3	=D255/G51/G52	=E255/(B255-A255)	=F255-F254	=G255+H255	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B255)	=H254
256	=B255	=B255+3	=D256/G51/G52	=E256/(B256-A256)	=F256-F255	=G256+H256	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B256)	=H255
257	=B256	=B256+3	=D257/G51/G52	=E257/(B257-A257)	=F257-F256	=G257+H257	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B257)	=H256
258	=B257	=B257+3	=D258/G51/G52	=E258/(B258-A258)	=F258-F257	=G258+H258	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B258)	=H257
259	=B258	=B258+3	=D259/G51/G52	=E259/(B259-A259)	=F259-F258	=G259+H259	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B259)	=H258
260	=B259	=B259+3	=D260/G51/G52	=E260/(B260-A260)	=F260-F259	=G260+H260	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B260)	=H259
261	=B260	=B260+3	=D261/G51/G52	=E261/(B261-A261)	=F261-F260	=G261+H261	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B261)	=H260
262	=B261	=B261+3	=D262/G51/G52	=E262/(B262-A262)	=F262-F261	=G262+H262	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B262)	=H261
263	=B262	=B262+3	=D263/G51/G52	=E263/(B263-A263)	=F263-F262	=G263+H263	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B263)	=H262
264	=B263	=B263+3	=D264/G51/G52	=E264/(B264-A264)	=F264-F263	=G264+H264	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B264)	=H263
265	=B264	=B264+3	=D265/G51/G52	=E265/(B265-A265)	=F265-F264	=G265+H265	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B265)	=H264
266	=B265	=B265+3	=D266/G51/G52	=E266/(B266-A266)	=F266-F265	=G266+H266	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B266)	=H265
267	=B266	=B266+3	=D267/G51/G52	=E267/(B267-A267)	=F267-F266	=G267+H267	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B267)	=H266
268	=B267	=B267+3	=D268/G51/G52	=E268/(B268-A268)	=F268-F267	=G268+H268	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B268)	=H267
269	=B268	=B268+3	=D269/G51/G52	=E269/(B269-A269)	=F269-F268	=G269+H269	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B269)	=H268
270	=B269	=B269+3	=D270/G51/G52	=E270/(B270-A270)	=F270-F269	=G270+H270	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B270)	=H269
271	=B270	=B270+3	=D271/G51/G52	=E271/(B271-A271)	=F271-F270	=G271+H271	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B271)	=H270
272	=B271	=B271+3	=D272/G51/G52	=E272/(B272-A272)	=F272-F271	=G272+H272	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B272)	=H271
273	=B272	=B272+3	=D273/G51/G52	=E273/(B273-A273)	=F273-F272	=G273+H273	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B273)	=H272
274	=B273	=B273+3	=D274/G51/G52	=E274/(B274-A274)	=F274-F273	=G274+H274	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B274)	=H273
275	=B274	=B274+3	=D275/G51/G52	=E275/(B275-A275)	=F275-F274	=G275+H275	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B275)	=H274
276	=B275	=B275+3	=D276/G51/G52	=E276/(B276-A276)	=F276-F275	=G276+H276	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B276)	=H275
277	=B276	=B276+3	=D277/G51/G52	=E277/(B277-A277)	=F277-F276	=G277+H277	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B277)	=H276
278	=B277	=B277+3	=D278/G51/G52	=E278/(B278-A278)	=F278-F277	=G278+H278	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B278)	=H277
279	=B278	=B278+3	=D279/G51/G52	=E279/(B279-A279)	=F279-F278	=G279+H279	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B279)	=H278
280	=B279	=B279+3	=D280/G51/G52	=E280/(B280-A280)	=F280-F279	=G280+H280	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B280)	=H279
281	=B280	=B280+3	=D281/G51/G52	=E281/(B281-A281)	=F281-F280	=G281+H281	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B281)	=H280
282	=B281	=B281+3	=D282/G51/G52	=E282/(B282-A282)	=F282-F281	=G282+H282	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B282)	=H281
283	=B282	=B282+3	=D283/G51/G52	=E283/(B283-A283)	=F283-F282	=G283+H283	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B283)	=H282
284	=B283	=B283+3	=D284/G51/G52	=E284/(B284-A284)	=F284-F283	=G284+H284	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B284)	=H283
285	=B284	=B284+3	=D285/G51/G52	=E285/(B285-A285)	=F285-F284	=G285+H285	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B285)	=H284
286	=B285	=B285+3	=D286/G51/G52	=E286/(B286-A286)	=F286-F285	=G286+H286	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B286)	=H285
287	=B286	=B286+3	=D287/G51/G52	=E287/(B287-A287)	=F287-F286	=G287+H287	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B287)	=H286
288	=B287	=B287+3	=D288/G51/G52	=E288/(B288-A288)	=F288-F287	=G288+H288	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B288)	=H287
289	=B288	=B288+3	=D289/G51/G52	=E289/(B289-A289)	=F289-F288	=G289+H289	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B289)	=H288
290	=B289	=B289+3	=D290/G51/G52	=E290/(B290-A290)	=F290-F289	=G290+H290	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B290)	=H289
291	=B290	=B290+3	=D291/G51/G52	=E291/(B291-A291)	=F291-F290	=G291+H291	=sinterp2("Total", "Total", "B2:B73", "D2:D73", ROWS(\$B\$2:\$B\$73), B291)	=H290
292								
293			verage Heat Load	= (AVERAGE(D4:D2				

Excel Formulas for Table G7.1 Plant Temperature Rise

	A	B	C	D	E	F
1	Time (seconds)	Time (hours)	Combined Generated Heat Load (Btu/hr)	Integrated Generated Heat (Btu)	Sensible Heat Available (Btu)	Total Heat Available (Btu)
2	0	0	2.44E+10	0.00E+00	1.22E+09	1.22E+09
3	1.00E-01	2.78E-05	2.42E+10	6.75E+05	1.22E+09	1.22E+09
4	1.50E-01	4.17E-05	2.35E+10	1.01E+06	1.22E+09	1.22E+09
5	2.00E-01	5.56E-05	2.28E+10	1.33E+06	1.22E+09	1.22E+09
6	4.00E-01	1.11E-04	1.83E+10	2.47E+06	1.22E+09	1.22E+09
7	6.00E-01	1.67E-04	1.45E+10	3.38E+06	1.22E+09	1.22E+09
8	8.00E-01	2.22E-04	1.21E+10	4.12E+06	1.22E+09	1.22E+09
9	1.00E+00	2.78E-04	8.35E+09	4.68E+06	1.22E+09	1.22E+09
10	1.50E+00	4.17E-04	6.11E+09	5.69E+06	1.22E+09	1.22E+09
11	2.00E+00	5.56E-04	3.88E+09	6.38E+06	1.22E+09	1.23E+09
12	4.00E+00	1.11E-03	1.91E+09	7.99E+06	1.22E+09	1.23E+09
13	6.00E+00	1.67E-03	1.60E+09	8.97E+06	1.22E+09	1.23E+09
14	8.00E+00	2.22E-03	1.50E+09	9.83E+06	1.22E+09	1.23E+09
15	1.00E+01	2.78E-03	1.40E+09	1.06E+07	1.22E+09	1.23E+09
16	1.50E+01	4.17E-03	1.31E+09	1.25E+07	1.22E+09	1.23E+09
17	2.00E+01	5.56E-03	1.23E+09	1.43E+07	1.22E+09	1.23E+09
18	4.00E+01	1.11E-02	1.10E+09	2.07E+07	1.22E+09	1.24E+09
19	6.00E+01	1.67E-02	1.02E+09	2.66E+07	1.22E+09	1.25E+09
20	8.00E+01	2.22E-02	9.69E+08	3.22E+07	1.22E+09	1.25E+09
21	1.00E+02	2.78E-02	9.34E+08	3.74E+07	1.22E+09	1.26E+09
22	1.50E+02	4.17E-02	8.74E+08	5.00E+07	1.22E+09	1.27E+09
23	2.00E+02	5.56E-02	8.34E+08	6.19E+07	1.22E+09	1.28E+09
24	4.00E+02	1.11E-01	7.47E+08	1.06E+08	1.22E+09	1.32E+09
25	6.00E+02	1.67E-01	6.98E+08	1.46E+08	1.22E+09	1.36E+09
26	8.00E+02	2.22E-01	6.61E+08	1.84E+08	1.22E+09	1.40E+09
27	1.00E+03	2.78E-01	6.33E+08	2.20E+08	1.22E+09	1.44E+09
28	1.50E+03	4.17E-01	5.80E+08	3.04E+08	1.22E+09	1.52E+09
29	2.00E+03	5.56E-01	5.42E+08	3.82E+08	1.22E+09	1.60E+09
30	4.00E+03	1.11E+00	4.60E+08	6.60E+08	1.22E+09	1.88E+09
31	6.00E+03	1.67E+00	4.21E+08	9.04E+08	1.22E+09	2.12E+09
32	8.00E+03	2.22E+00	3.97E+08	1.13E+09	1.22E+09	2.35E+09
33	1.00E+04	2.78E+00	3.81E+08	1.35E+09	1.22E+09	2.57E+09
34	1.50E+04	4.17E+00	3.55E+08	1.86E+09	1.22E+09	3.08E+09
35	2.00E+04	5.56E+00	3.39E+08	2.34E+09	1.22E+09	3.56E+09
36	4.00E+04	1.11E+01	3.05E+08	4.13E+09	1.22E+09	5.35E+09
37	6.00E+04	1.67E+01	2.86E+08	5.77E+09	1.22E+09	6.99E+09
38	8.00E+04	2.22E+01	2.74E+08	7.32E+09	1.22E+09	8.54E+09
39	8.64E+04	2.40E+01	2.70E+08	7.81E+09	1.22E+09	9.03E+09
40	1.00E+05	2.78E+01	2.64E+08	8.82E+09	1.22E+09	1.00E+10
41	1.50E+05	4.17E+01	2.48E+08	1.24E+10	1.22E+09	1.36E+10
42	1.73E+05	4.81E+01	2.42E+08	1.39E+10	1.22E+09	1.52E+10
43	2.00E+05	5.56E+01	2.37E+08	1.57E+10	1.22E+09	1.70E+10
44	2.59E+05	7.19E+01	2.27E+08	1.95E+10	1.22E+09	2.07E+10
45	3.46E+05	9.61E+01	2.16E+08	2.49E+10	1.22E+09	2.61E+10
46	4.00E+05	1.11E+02	2.11E+08	2.81E+10	1.22E+09	2.93E+10

Excel Formulas for Table G7.1 Plant Temperature Rise

	A	B	C	D	E	F
1	Time (seconds)	Time (hours)	Combined Generated Heat Load (Btu/hr)	Integrated Generated Heat (Btu)	Sensible Heat Available (Btu)	Total Heat Available (Btu)
47	4.32E+05	1.20E+02	2.08E+08	2.99E+10	1.22E+09	3.12E+10
48	6.00E+05	1.67E+02	1.97E+08	3.94E+10	1.22E+09	4.06E+10
49	8.00E+05	2.22E+02	1.89E+08	5.01E+10	1.22E+09	5.14E+10
50	8.64E+05	2.40E+02	1.86E+08	5.35E+10	1.22E+09	5.47E+10
51	1.00E+06	2.78E+02	1.82E+08	6.04E+10	1.22E+09	6.17E+10
52	1.50E+06	4.17E+02	1.73E+08	8.51E+10	1.22E+09	8.63E+10
53	1.73E+06	4.81E+02	1.70E+08	9.60E+10	1.22E+09	9.73E+10
54	2.00E+06	5.56E+02	1.67E+08	1.09E+11	1.22E+09	1.10E+11
55	2.59E+06	7.19E+02	1.62E+08	1.36E+11	1.22E+09	1.37E+11
56	3.46E+06	9.61E+02	1.57E+08	1.74E+11	1.22E+09	1.75E+11
57	4.00E+06	1.11E+03	1.54E+08	1.97E+11	1.22E+09	1.99E+11
58	4.32E+06	1.20E+03	1.53E+08	2.11E+11	1.22E+09	2.12E+11
59	6.00E+06	1.67E+03	1.48E+08	2.81E+11	1.22E+09	2.82E+11
60	8.00E+06	2.22E+03	1.44E+08	3.62E+11	1.22E+09	3.64E+11
61	1.00E+07	2.78E+03	1.41E+08	4.42E+11	1.22E+09	4.43E+11
62	1.50E+07	4.17E+03	1.38E+08	6.34E+11	1.22E+09	6.36E+11
63	2.00E+07	5.56E+03	1.33E+08	8.22E+11	1.22E+09	8.23E+11
64	4.00E+07	1.11E+04	1.28E+08	1.55E+12	1.22E+09	1.55E+12
65	6.00E+07	1.67E+04	1.25E+08	2.25E+12	1.22E+09	2.25E+12
66	8.00E+07	2.22E+04	1.24E+08	2.94E+12	1.22E+09	2.94E+12
67	1.00E+08	2.78E+04	1.23E+08	3.62E+12	1.22E+09	3.63E+12
68	1.50E+08	4.17E+04	1.22E+08	5.32E+12	1.22E+09	5.32E+12
69	2.00E+08	5.56E+04	1.21E+08	7.01E+12	1.22E+09	7.01E+12
70	4.00E+08	1.11E+05	1.21E+08	1.37E+13	1.22E+09	1.37E+13
71	6.00E+08	1.67E+05	1.21E+08	2.04E+13	1.22E+09	2.04E+13
72	8.00E+08	2.22E+05	1.20E+08	2.71E+13	1.22E+09	2.71E+13
73	1.00E+09	2.78E+05	1.20E+08	3.38E+13		

H1.0 PURPOSE/OBJECTIVE

The purpose of this attachment is to evaluate the UHS transient analyses with an increased allowable plant intake temperature of 104°F per Reference H5.4. The initial lake temperature is adjusted such that the plant intake temperature remains below 104°F during the accident scenario.

H2.0 METHODOLOGY AND ACCEPTANCE CRITERIA

The S&L LAKET-PC computer program [Ref. H5.1] is utilized to determine the combined impact of decay heat, initial UHS temperature, and allowable sediment accumulation in the UHS. The maximum allowable UHS temperature is determined for average sediment accumulations of 0, 6, and 18 inches (which correspond to UHS volumes of 464.9, 423.5 and 341.4 acre-ft, respectively) in Revision 5. The maximum allowable UHS temperature is determined for average sediment accumulation of 12 inches (which corresponds to UHS volume 381.9 acre-ft) in Revision 6.

H2.1 Methodology

The LAKET program has been updated since Revision 4 was made. This latest version, LAKET-PC 2.2 [Ref. H5.1], introduces new variables that may be used for more accuracy and data input flexibility. For example, the plot frequency can now be in time intervals of minutes or desired amount of hours, instead of fixed 3-hour intervals. In Revision 5, Cases c00e, c06e, c18e, and c0609 were recalculated using the updated LAKET-PC software. Verification that the updated software produced similar results as the previous software version was needed. This was done by translating all the data used previously into the format the updated software can understand. For the parameters of interest, both versions of LAKET produced similar results. The results of the verification runs are provided in Section 7.2.3 of the main body. This revision (Rev. 6) utilizes the same version of LAKE-PC as Rev. 5 and thus no formal verification cases are required.

Many different weather files were created for the analysis contained in the main body of the calculation. There are two separate weather files for each starting time. One file is the worst day temperature file, which has the worst day in the weather history as day one followed by the worst consecutive 30 days in weather history. The second file is the worst 5/1/30 day temperature file, which has the worst five consecutive days in the weather history followed by the worst day in weather history, followed by the worst consecutive 30 days in weather history. For more details see Section 2.1 of the main body of the calculation. Table 7.3 from the main body of the calculation lists the weather files that produce the most restrictive temperature limit. The files listed which correspond to the cases of interest are used for the runs in this attachment. In the case that two separate weather files are listed, the weather file resulting in the highest peak temperature from Table 7.3 (main calculation) is used. In Revision 5, three different sediment levels (0, 6, 18 inches) were each run under the two different weather conditions, totaling six scenarios. For Revision 6, three new scenarios were added to this calculation to account for 12 inch sediment level and two different weather conditions. The following computer simulations are run in this attachment:

Case	Rev.	Weather Data	Start Time	Sediment Level (in.)	Methodology	Test Condition
1a	5	1/30	0900	0	Reg. Guide 1.27, Rev. 1	Plant Inlet Temp \leq 104°F
1b	5	5/1/30	0900	0	Reg. Guide 1.27, Rev. 2	Plant Inlet Temp \leq 104°F
1c	5	Worst 30-day Evaporation	1200	0	Reg. Guide 1.27, Rev. 1	Use limiting initial temperature from Case 1a
2a	5	1/30	0900	6	Reg. Guide 1.27, Rev. 1	Plant Inlet Temp \leq 104°F
2b	5	5/1/30	0900	6	Reg. Guide 1.27, Rev. 2	Plant Inlet Temp \leq 104°F
2c	5	Worst 30-day Evaporation	1200	6	Reg. Guide 1.27, Rev. 1	Use limiting initial temperature from Case 2a
3a	5	1/30	0900	18	Reg. Guide 1.27, Rev. 1	Plant Inlet Temp \leq 104°F
3b	5	5/1/30	0900	18	Reg. Guide 1.27, Rev. 2	Plant Inlet Temp \leq 104°F
3c	5	Worst 30-day Evaporation	1200	18	Reg. Guide 1.27, Rev. 1	Use limiting initial temperature from Case 3a
4a	6	1/30	0900	12	Reg. Guide 1.27, Rev. 1	Plant Inlet Temp \leq 104°F
4b	6	5/1/30	0900	12	Reg. Guide 1.27, Rev. 2	Plant Inlet Temp \leq 104°F
4c	6	Worst 30-day Evaporation	1200	12	Reg. Guide 1.27, Rev. 1	Use limiting initial temperature from Case 4a

For each of the peak temperature cases (1a, 1b, 2a, 2b, 3a, 3b, 4a, and 4b), it is required that the maximum plant inlet temperature does not surpass 104°F. If the resulting maximum plant inlet temperature is greater than 104°F, the case is rerun at lower initial UHS temperatures until a plant inlet temperature lower than or equal to 104°F is achieved.

For the worst 30 day evaporation period cases (1c, 2c, 3c, and 4c), the limiting initial temperature from the peak temperature case analysis using the same level of siltation was used for initial lake temperature.

The UHS inlet and outlet temperatures are plotted for every three-hour time step of the 36-day weather period. Figure 7.1 from the main body of the calculation is recreated based on the initial UHS temperatures used for the cases listed above, while maintaining plant inlet temperatures at or below 104°F.

H2.2 Acceptance Criteria

H2.2.1 Peak Temperature - The maximum plant inlet temperature shall remain equal to or less than 104°F.

H2.2.2 Maximum Drawdown – The maximum drawdown shall be less than 1.5-ft.

H2.3 Limitations

Same as main body of calculation

H2.4 Identification of Computer Programs

Revision 5 - All runs are performed using LAKET-PC v2.2 on SNL PC No. ZD2215.

Revision 6 - All runs are performed using LAKET-PC v2.2 on SNL PC No. ZL4578.

LAKET-PC is a validated program approved for use in modeling transient lake conditions. The controlled files are located at:

Controlled File Path: \\SNLVS5\SYS3\OPS\$\LAK29222\

H3.0 ASSUMPTIONS

H3.1 Computer Program - The latest validated version of LAKET-PC will be used in the analysis. The use of the latest version of LAKET is verified by running models from previous versions and verifying that the results are similar. Changes to the run stream will be updated as needed. Note that revisions to the LAKET program are for ease of use and do not represent use of a new methodology or computer code.

H3.2 UHS Inventory used for Fire Fighting - As stated in minor Revision 5A, UFSAR Section 9.2.6.3 states that 440,400 gallons of water from the UHS must be available for fire fighting following an accident. Fire fighting could consume up to 1.352 acre-ft ($440,400 \text{ gal} \times 0.1337 \text{ ft}^3/\text{gal} / 43,560 \text{ ft}^2/\text{acre}$). The volume and surface area of the UHS at its maximum drawdown of 1.5 ft (El. 688.5 ft) are 341 acre-ft and 81.3 acres, respectively. Thus, fire water consumption would decrease the UHS heat capacitance by only 0.396% ($1.352 \text{ acre-ft} / 341 \text{ acre-ft}$) and increase the maximum UHS drawdown by only 0.0166 ft ($1.352 \text{ acre-ft} / 81.3 \text{ acres}$). This is less than 0.2 inches of drawdown. Therefore, the use of UHS inventory for fire fighting remains insignificant.

H3.3 Other - All other assumptions are the same as the assumptions in the main body of calculation.

H4.0 DESIGN INPUT

All design inputs for this attachment are the same as the design inputs from the main body of the calculation except for the initial forced temperature. For all the tested peak temperature cases, the initial forced temperature was maximized, while still maintaining the required plant inlet temperature at or under 104°F. Plant heat loads are the same as those listed in Attachment G.

H5.0 REFERENCES

- H5.1 LAKET-PC Computer Program, Version 2.2, S&L Program No. 03.7.292-2.2, December, 2004.
- H5.2 "UHS Heat Load," Calculation L-002453, Rev. 2, April, 2002.
- H5.3 STMFUNC Computer Program, S&L Program No. STM 03.7.598-2.0, May 2003.
- H5.4 Letter from Mike Peters, Lasalle Station to Manuel Vega, S&L. Subject: Requested Input for L-002457 Revision 5. (See pp. H27)
- H5.5 Email from Paul Derezotes, S&L to Michael Duffy, S&L, "Uhsavg Program Capabilities Summary for Lasalle" (See pp. H28)
- H5.6 GE Letter SC06-01, dated 1/19/2006, "Plants with GE Containment Design or Analysis (Attachment 1)"

All other references except the ones mentioned above are the same as the references in the main body of the calculation.

H6.0 CALCULATIONS

The calculations are the same as those described in the main body of the calculation except for the maximum allowable UHS temperature. For Attachment H, the maximum plant inlet temperature should be at or below 104°F.

H6.1 Review of GE Communication SC06-01

GE Communication SC06-01, Attachment H Reference H5.6, concerns the analysis done on suppression pool temperature under worst single failure. It states that the assumptions made previously by GE may not represent worst single failure conditions for some plants when determining peak suppression pool temperature. Some plants may have an alternate single failure that can result in a higher peak suppression pool temperature than reported in existing design basis and licensing basis calculations. This higher peak suppression pool temperature may arise from significantly greater pump heat transferred to the suppression pool. This can occur if a loss of off-site power (LOOP) does not occur or with a LOOP, if the postulated single failure results in one Residual Heat Remover (RHR) heat exchanger being unavailable but with the maximum number of emergency core cooling systems (ECCS) and RHR pumps being available. Consequently, the peak suppression pool temperature for this scenario is higher than that determined based on the original design. In Revision 5 of this calculation, this has been looked into to ensure that calculations have been performed with worst case scenario conditions. Revision 5 utilized heat load data previously used for calculations in Revision 4, and the heat load data used in Revision 4 was obtained from Calculation L-002453, Reference 5.8. According to this calculation, the heat load from the pump motors conservatively includes all of the CSCS pump motors except for the Fuel Pool Emergency Make-up Pump motors. In addition, the ECCS and RHR pump motor heat loads are included in the heat load total since the heat is added to the suppression pool and ultimately will be added to the UHS via the RHR heat exchanger. Therefore, it can be concluded that conservative measures have been taken throughout the calculation and all the pumps heat loads have been considered.

H7.0 RESULTS AND CONCLUSIONS

H7.1 Summary

Table H7.0.1 through Table H7.0.3 provide a summary of results for all the cases modeled. The cumulative results for individual cases are shown in Tables H7.1 through H7.9. Figures H7.1 through Figures H7.4 are graphs of the UHS temperatures versus the day for each of the cases under different weather conditions.

H7.2 Tables

- ♦ Table H7.0: Overall Summary of Cases and Results
- ♦ Table H7.1: Cumulative Summary for Case 1a – 0” Sediment, 09:00 Start, 1/30 Weather Data
- ♦ Table H7.2: Cumulative Summary for Case 1b – 0” Sediment, 09:00 Start, 5/1/30 Weather Data
- ♦ Table H7.3: Cumulative Summary for Case 1c – 0” Sediment, 12:00 Start, Worst 30-day Evap. Data
- ♦ Table H7.4: Cumulative Summary for Case 2a – 6” Sediment, 09:00 Start, 1/30 Weather Data
- ♦ Table H7.5: Cumulative Summary for Case 2b – 6” Sediment, 09:00 Start, 5/1/30 Weather Data
- ♦ Table H7.6: Cumulative Summary for Case 2c – 6” Sediment, 12:00 Start, Worst 30-day Evap. Data
- ♦ Table H7.7: Cumulative Summary for Case 3a – 18” Sediment, 09:00 Start, 1/30 Weather Data
- ♦ Table H7.8: Cumulative Summary for Case 3b – 18” Sediment, 09:00 Start, 5/1/30 Weather Data
- ♦ Table H7.9: Cumulative Summary for Case 3c – 18” Sediment, 12:00 Start, Worst 30-day Evap. Data
- ♦ Table H7.10: Cumulative Summary for Case 4a – 12” Sediment, 09:00 Start, 1/30 Weather Data
- ♦ Table H7.11: Cumulative Summary for Case 4b – 12” Sediment, 09:00 Start, 5/1/30 Weather Data
- ♦ Table H7.12: Cumulative Summary for Case 4c – 12” Sediment, 12:00 Start, Worst 30-day Evap. Data
- ♦ Table H7.13: Table of Outlet Files

H7.3 Figures

- ♦ Figure H7.1: 1/30 Plant Inlet Temperature vs. Day
- ♦ Figure H7.2: 1/30 Plant Outlet Temperature vs. Day
- ♦ Figure H7.3: 5/1/30 Plant Inlet Temperature vs. Day
- ♦ Figure H7.4: 5/1/30 Plant Outlet Temperature vs. Day
- ♦ Figure H7.5: Case 3a: UHS LOCA Temperature Transient, Worst 31-Day Temperature Period
- ♦ Figure H7.6: Case 3b: UHS LOCA Temperature Transient, Worst 36-Day Temperature Period
- ♦ Figure H7.7: Case 3c: UHS LOCA Drawdown, Worst 30-Day Evaporation Weather Period

Table H7.0.1. Overall Summary for Maximum Temperature Under Regulation Guide 1.27, Rev. 1

Case	Rev.	Weather Data	Sediment Level (in.)	Initial Lake Temp. (°F)	Max Plant Outlet Temp. (°F)	Max Plant Inlet Temp. (°F)
1a	5	1/30	0	103.0	138.6	104.0
2a	5	1/30	6	102.9	138.5	104.0
3a	5	1/30	18	102.3	138.1	104.0
4a	6	1/30	12	102.7	138.4	104.0

Table H7.0.2 Overall Summary for Maximum Temperature Under Regulation Guide 1.27, Rev. 2

Case	Rev.	Weather Data	Sediment Level (in.)	Initial Lake Temp. (°F)	Max Plant Outlet Temp. (°F)	Max Plant Inlet Temp. (°F)
1b	5	5/1/30	0	103.6	138.5	104.0
2b	5	5/1/30	6	103.5	138.4	104.0
3b	5	5/1/30	18	102.9	137.7	104.0
4b	6	5/1/30	12	103.0	137.9	104.0

Table H7.0.3 Overall Summary for Maximum Evaporation Under Regulation Guide 1.27, Rev. 1

Case	Rev.	Weather Data	Sediment Level (in.)	Initial Lake Temp. (°F)	Maximum Drawdown (ft)
1c	5	Worst 30-day Evaporation	0	103.0	1.48
2c	5	Worst 30-day Evaporation	6	102.9	1.48
3c	5	Worst 30-day Evaporation	18	102.3	1.48
4c	6	Worst 30-day Evaporation	12	102.7	1.48

Table H7.1. Cumulative Summary for Case 1a – 0" Sediment, 09:00 Start Time, 1/30 Weather Data

Case 1a: LaSalle UHS (09:00, Worst Day Temp; To=104F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.64 (8051900)	689.26
TOTAL AREA (ACRE)	83.82 (7011900)	81.56 (8051900)	82.59
TOTAL VOLUME (ACRE-FT)	464.29 (7011900)	351.99 (8051900)	403.37
EFFECTIVE AREA (ACRE)	75.44 (7011900)	73.41 (8051900)	74.33
EFFECTIVE VOL (ACRE-FT)	417.85 (7011900)	316.80 (8051900)	363.03
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.16 (8051900)	-0.20 (7011900)	-0.18
EVAPORATION TOTAL (CFS)	-0.25 (8041900)	-4.92 (7021900)	-1.41
EVAPORATION NATURL(CFS)	0.00 (7011900)	-3.78 (7031900)	-0.78
EVAPORATION FORCED(CFS)	-0.25 (8041900)	-2.00 (7011900)	-0.62
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.06
SURF LOSS (BTU/HR-FT2)	165.18 (7011900)	144.85 (7061900)	152.04
EVAP LOSS (BTU/HR-FT2)	241.93 (7031900)	0.00 (7011900)	50.63
COND LOSS (BTU/HR-FT2)	39.22 (7261900)	-6.56 (7261900)	7.05
LAKE TEMP NATURAL (F)	101.09 (7011900)	82.96 (7061900)	89.55
LAKE TEMP @ INLET (F)	138.60 (7011900)	93.65 (7251900)	100.28
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	84.47 (7061900)	90.64
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (8051900)	-0.05 (7011900)	-12.57
TOTAL EVAP TOT (ACRE-FT)	-0.06 (8041900)	-1.22 (7021900)	-100.33
TOTAL EVAP NAT (ACRE-FT)	0.00 (7011900)	-0.94 (7031900)	-55.85
TOTAL EVAP FOR (ACRE-FT)	-0.06 (8041900)	-0.50 (7011900)	-44.49
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	96.0	89.1
LAKE TEMP @ INLET (F)	132.0	109.0	99.5
LAKE TEMP @ OUTLET (F)	103.3	97.0	90.3

Table H7.2. Cumulative Summary for Case 1b – 0" Sediment, 09:00 Start Time, 5/1/30 Weather Data

Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.45 (8051900)	689.17
TOTAL AREA (ACRE)	83.81 (7011900)	81.26 (8051900)	82.44
TOTAL VOLUME (ACRE-FT)	464.07 (7011900)	336.81 (8051900)	396.15
EFFECTIVE AREA (ACRE)	75.43 (7011900)	73.14 (8051900)	74.20
EFFECTIVE VOL (ACRE-FT)	417.66 (7011900)	303.15 (8051900)	356.53
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.15 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.28 (8051900)	-3.97 (7051900)	-1.62
EVAPORATION NATURL (CFS)	0.00 (7031900)	-2.78 (7051900)	-0.98
EVAPORATION FORCED (CFS)	-0.27 (7311900)	-1.86 (7011900)	-0.64
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	165.48 (7011900)	144.08 (7241900)	153.62
EVAP LOSS (BTU/HR-FT2)	177.64 (7051900)	0.00 (7031900)	63.59
COND LOSS (BTU/HR-FT2)	25.97 (7051900)	-31.74 (7251900)	5.51
LAKE TEMP NATURAL (F)	101.34 (7011900)	82.23 (7241900)	90.96
LAKE TEMP @ INLET (F)	138.50 (7011900)	91.64 (7241900)	101.51
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	83.07 (7241900)	91.88
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (8051900)	-0.05 (7011900)	-12.36
TOTAL EVAP TOT (ACRE-FT)	-0.07 (8051900)	-0.99 (7051900)	-115.71
TOTAL EVAP NAT (ACRE-FT)	0.00 (7031900)	-0.69 (7051900)	-70.02
TOTAL EVAP FOR (ACRE-FT)	-0.07 (7311900)	-0.46 (7011900)	-45.69
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	97.5	90.9
LAKE TEMP @ INLET (F)	132.0	110.9	100.9
LAKE TEMP @ OUTLET (F)	103.5	98.2	91.9

Table H7.3. Cumulative Summary for Case 1c – 0" Sediment, 12:00 Start Time, Worst 30-day Evaporation

Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (6181954)	20.00 (6181954)	20.00
LAKE ELEVATION (FEET)	689.99 (6181954)	688.52 (7171954)	689.21
TOTAL AREA (ACRE)	83.82 (6181954)	81.37 (7171954)	82.50
TOTAL VOLUME (ACRE-FT)	464.32 (6181954)	342.30 (7171954)	399.17
EFFECTIVE AREA (ACRE)	75.44 (6181954)	73.24 (7171954)	74.26
EFFECTIVE VOL (ACRE-FT)	417.88 (6181954)	308.09 (7171954)	359.24
CIRCULATION TIME (HR)	0.00 (6181954)	0.00 (6181954)	0.00
PRECIPITATION (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
MAKEUP TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SEEPAGE (CFS)	-0.15 (7171954)	-0.20 (6181954)	-0.17
EVAPORATION TOTAL (CFS)	-0.55 (6291954)	-5.34 (6271954)	-1.89
EVAPORATION NATURL(CFS)	-0.28 (6221954)	-4.08 (6271954)	-1.25
EVAPORATION FORCED(CFS)	-0.17 (7171954)	-2.19 (6181954)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SOLAR GAIN (BTU/HR-FT2)	451.13 (6191954)	90.18 (7071954)	223.80
SURF LOSS (BTU/HR-FT2)	165.31 (6181954)	137.78 (7071954)	146.93
EVAP LOSS (BTU/HR-FT2)	263.35 (6271954)	18.24 (6221954)	81.46
COND LOSS (BTU/HR-FT2)	37.87 (6271954)	-46.87 (7121954)	2.71
LAKE TEMP NATURAL (F)	101.19 (6181954)	76.21 (7071954)	84.84
LAKE TEMP @ INLET (F)	139.42 (6181954)	85.46 (7071954)	95.84
LAKE TEMP @ OUTLET (F)	103.94 (6181954)	76.52 (7071954)	85.95
DISSOLVED SOLIDS (PPM)	0.00 (6181954)	0.00 (6181954)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7171954)	-0.05 (6181954)	-10.38
TOTAL EVAP TOT (ACRE-FT)	-0.14 (6291954)	-1.32 (6271954)	-112.21
TOTAL EVAP NAT (ACRE-FT)	-0.07 (6221954)	-1.01 (6271954)	-74.58
TOTAL EVAP FOR (ACRE-FT)	-0.04 (7171954)	-0.54 (6181954)	-37.63
TOTAL BLWD TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.0	94.5	84.1
LAKE TEMP @ INLET (F)	132.0	109.0	94.6
LAKE TEMP @ OUTLET (F)	103.0	95.5	85.3

Table H7.4. Cumulative Summary for Case 2a – 6" Sediment, 09:00 Start Time, 1/30 Weather Data

Case 2a: LaSalle UHS (09:00, Worst Day Temp; To=104F, 0.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.63 (8051900)	689.26
TOTAL AREA (ACRE)	82.98 (7011900)	80.76 (8051900)	81.77
TOTAL VOLUME (ACRE-FT)	422.90 (7011900)	311.45 (8051900)	362.57
EFFECTIVE AREA (ACRE)	74.68 (7011900)	72.68 (8051900)	73.59
EFFECTIVE VOL (ACRE-FT)	380.66 (7011900)	280.26 (8051900)	326.29
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.15 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.22 (8041900)	-4.85 (7021900)	-1.40
EVAPORATION NATURL(CFS)	0.00 (7011900)	-3.69 (7031900)	-0.77
EVAPORATION FORCED(CFS)	-0.22 (8041900)	-2.03 (7011900)	-0.62
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.06
SURF LOSS (BTU/HR-FT2)	165.32 (7011900)	144.26 (7061900)	151.99
EVAP LOSS (BTU/HR-FT2)	238.54 (7031900)	0.00 (7011900)	50.51
COND LOSS (BTU/HR-FT2)	39.32 (7261900)	-6.71 (7261900)	7.02
LAKE TEMP NATURAL (F)	101.20 (7011900)	82.41 (7061900)	89.49
LAKE TEMP @ INLET (F)	138.51 (7011900)	93.10 (7251900)	100.14
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	83.71 (7061900)	90.52
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (8051900)	-0.05 (7011900)	-12.40
TOTAL EVAP TOT (ACRE-FT)	-0.06 (8041900)	-1.20 (7021900)	-99.64
TOTAL EVAP NAT (ACRE-FT)	0.00 (7011900)	-0.92 (7031900)	-55.17
TOTAL EVAP FOR (ACRE-FT)	-0.06 (8041900)	-0.50 (7011900)	-44.47
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	96.5	89.0
LAKE TEMP @ INLET (F)	132.0	108.0	99.4
LAKE TEMP @ OUTLET (F)	103.3	96.9	90.1

Table H7.5. Cumulative Summary for Case 2b – 6" Sediment, 09:00 Start Time, 5/1/30 Weather Data

Case 2b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104F, 0.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.44 (8051900)	689.17
TOTAL AREA (ACRE)	82.97 (7011900)	80.46 (8051900)	81.63
TOTAL VOLUME (ACRE-FT)	422.68 (7011900)	296.53 (8051900)	355.38
EFFECTIVE AREA (ACRE)	74.68 (7011900)	72.41 (8051900)	73.46
EFFECTIVE VOL (ACRE-FT)	380.46 (7011900)	266.84 (8051900)	319.82
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.32 (8051900)	-4.04 (7051900)	-1.61
EVAPORATION NATURL (CFS)	0.00 (7031900)	-2.76 (7051900)	-0.97
EVAPORATION FORCED (CFS)	-0.27 (7311900)	-1.90 (7011900)	-0.64
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	165.64 (7011900)	143.53 (7241900)	153.57
EVAP LOSS (BTU/HR-FT2)	178.04 (7051900)	0.00 (7031900)	63.38
COND LOSS (BTU/HR-FT2)	26.04 (7051900)	-31.64 (7251900)	5.46
LAKE TEMP NATURAL (F)	101.48 (7011900)	81.72 (7241900)	90.91
LAKE TEMP @ INLET (F)	138.41 (7011900)	91.06 (7241900)	101.38
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	82.49 (7241900)	91.75
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (8051900)	-0.05 (7011900)	-12.17
TOTAL EVAP TOT (ACRE-FT)	-0.08 (8051900)	-1.00 (7051900)	-114.78
TOTAL EVAP NAT (ACRE-FT)	0.00 (7031900)	-0.68 (7051900)	-69.10
TOTAL EVAP FOR (ACRE-FT)	-0.07 (7311900)	-0.47 (7011900)	-45.68
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	97.4	90.9
LAKE TEMP @ INLET (F)	132.0	110.8	101.0
LAKE TEMP @ OUTLET (F)	103.0	98.2	91.8

Table H7.6. Cumulative Summary for Case 2c – 6" Sediment, 12:00 Start Time, Worst 30-day Evaporation

Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (6181954)	20.00 (6181954)	20.00
LAKE ELEVATION (FEET)	690.00 (6181954)	688.52 (7171954)	689.21
TOTAL AREA (ACRE)	82.98 (6181954)	80.57 (7171954)	81.70
TOTAL VOLUME (ACRE-FT)	423.22 (6181954)	302.19 (7171954)	358.58
EFFECTIVE AREA (ACRE)	74.68 (6181954)	72.52 (7171954)	73.52
EFFECTIVE VOL (ACRE-FT)	380.95 (6181954)	271.98 (7171954)	322.75
CIRCULATION TIME (HR)	0.00 (6181954)	0.00 (6181954)	0.00
PRECIPITATION (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
MAKEUP TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SEEPAGE (CFS)	-0.15 (7171954)	-0.20 (6181954)	-0.17
EVAPORATION TOTAL (CFS)	-0.52 (6291954)	-5.38 (6181954)	-1.87
EVAPORATION NATURL(CFS)	-0.27 (6221954)	-4.09 (6271954)	-1.23
EVAPORATION FORCED(CFS)	-0.16 (7171954)	-2.39 (6181954)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SOLAR GAIN (BTU/HR-FT2)	451.13 (6191954)	90.18 (7071954)	223.80
SURF LOSS (BTU/HR-FT2)	165.46 (6181954)	136.98 (7071954)	146.83
EVAP LOSS (BTU/HR-FT2)	266.76 (6271954)	17.76 (6221954)	81.05
COND LOSS (BTU/HR-FT2)	37.75 (6271954)	-46.98 (7121954)	2.59
LAKE TEMP NATURAL (F)	101.32 (6181954)	75.43 (7071954)	84.75
LAKE TEMP @ INLET (F)	140.00 (6181954)	84.77 (7071954)	95.69
LAKE TEMP @ OUTLET (F)	104.78 (6181954)	75.99 (7071954)	85.82
DISSOLVED SOLIDS (PPM)	0.00 (6181954)	0.00 (6181954)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7171954)	-0.05 (6181954)	-10.23
TOTAL EVAP TOT (ACRE-FT)	-0.13 (6291954)	-1.33 (6181954)	-111.06
TOTAL EVAP NAT (ACRE-FT)	-0.07 (6221954)	-1.01 (6271954)	-73.47
TOTAL EVAP FOR (ACRE-FT)	-0.04 (7171954)	-0.59 (6181954)	-37.59
TOTAL BLWD TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.0	94.3	84.0
LAKE TEMP @ INLET (F)	133.0	109.0	94.6
LAKE TEMP @ OUTLET (F)	104.0	94.7	85.1

Table H7.7. Cumulative Summary for Case 3a – 18" Sediment, 09:00 Start Time, 1/30 Weather Data

Case 3a: LaSalle UHS (09:00, Worst Day Temp; To=104.0F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.63 (8051900)	689.26
TOTAL AREA (ACRE)	81.34 (7011900)	79.15 (8051900)	80.16
TOTAL VOLUME (ACRE-FT)	340.83 (7011900)	231.22 (8051900)	281.73
EFFECTIVE AREA (ACRE)	73.20 (7011900)	71.24 (8051900)	72.15
EFFECTIVE VOL (ACRE-FT)	306.69 (7011900)	208.08 (8051900)	253.53
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.20 (8041900)	-4.45 (7031900)	-1.38
EVAPORATION NATURL(CFS)	0.00 (7011900)	-3.49 (7031900)	-0.75
EVAPORATION FORCED(CFS)	-0.20 (8041900)	-2.03 (7011900)	-0.62
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	206.06
SURF LOSS (BTU/HR-FT2)	165.45 (7011900)	142.94 (7061900)	151.84
EVAP LOSS (BTU/HR-FT2)	229.83 (7031900)	0.00 (7011900)	50.25
COND LOSS (BTU/HR-FT2)	39.52 (7261900)	-7.06 (7261900)	6.93
LAKE TEMP NATURAL (F)	101.31 (7011900)	81.16 (7061900)	89.35
LAKE TEMP @ INLET (F)	138.06 (7011900)	91.97 (7251900)	99.81
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	82.18 (7061900)	90.20
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.03 (8051900)	-0.05 (7011900)	-11.95
TOTAL EVAP TOT (ACRE-FT)	-0.05 (8041900)	-1.10 (7031900)	-98.22
TOTAL EVAP NAT (ACRE-FT)	0.00 (7011900)	-0.86 (7031900)	-53.79
TOTAL EVAP FOR (ACRE-FT)	-0.05 (8041900)	-0.50 (7011900)	-44.43
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	97.0	89.0
LAKE TEMP @ INLET (F)	132.0	107.0	99.2
LAKE TEMP @ OUTLET (F)	103.0	97.5	89.9

Table H7.8. Cumulative Summary for Case 3b – 18" Sediment, 09:00 Start Time, 5/1/30 Weather Data

Case 3b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104.0F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.45 (8051900)	689.17
TOTAL AREA (ACRE)	81.33 (7011900)	78.86 (8051900)	80.02
TOTAL VOLUME (ACRE-FT)	340.63 (7011900)	216.86 (8051900)	274.71
EFFECTIVE AREA (ACRE)	73.20 (7011900)	70.98 (8051900)	72.02
EFFECTIVE VOL (ACRE-FT)	306.51 (7011900)	195.16 (8051900)	247.21
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.13 (8051900)	-0.20 (7011900)	-0.16
EVAPORATION TOTAL (CFS)	-0.24 (8051900)	-4.12 (7051900)	-1.58
EVAPORATION NATURL(CFS)	0.00 (7031900)	-2.72 (7051900)	-0.94
EVAPORATION FORCED(CFS)	-0.23 (7311900)	-1.86 (7011900)	-0.64
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	165.63 (7011900)	142.19 (7241900)	153.43
EVAP LOSS (BTU/HR-FT2)	179.35 (7051900)	0.00 (7031900)	62.87
COND LOSS (BTU/HR-FT2)	26.28 (7051900)	-30.81 (7251900)	5.32
LAKE TEMP NATURAL (F)	101.47 (7011900)	80.45 (7241900)	90.78
LAKE TEMP @ INLET (F)	137.71 (7011900)	89.71 (7241900)	101.03
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	81.35 (7241900)	91.43
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.03 (8051900)	-0.05 (7011900)	-11.67
TOTAL EVAP TOT (ACRE-FT)	-0.06 (8051900)	-1.02 (7051900)	-112.86
TOTAL EVAP NAT (ACRE-FT)	0.00 (7031900)	-0.68 (7051900)	-67.18
TOTAL EVAP FOR (ACRE-FT)	-0.06 (7311900)	-0.46 (7011900)	-45.68
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	97.5	90.9
LAKE TEMP @ INLET (F)	132.0	110.4	100.8
LAKE TEMP @ OUTLET (F)	103.0	98.0	91.5

Table H7.9. Cumulative Summary for Case 3c – 18" Sediment, 12:00 Start Time, Worst 30-day Evaporation

Case 3c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (6181954)	20.00 (6181954)	20.00
LAKE ELEVATION (FEET)	690.00 (6181954)	688.52 (7171954)	689.21
TOTAL AREA (ACRE)	81.34 (6181954)	78.98 (7171954)	80.09
TOTAL VOLUME (ACRE-FT)	341.13 (6181954)	222.77 (7171954)	278.14
EFFECTIVE AREA (ACRE)	73.21 (6181954)	71.09 (7171954)	72.08
EFFECTIVE VOL (ACRE-FT)	306.96 (6181954)	200.48 (7171954)	250.29
CIRCULATION TIME (HR)	0.00 (6181954)	0.00 (6181954)	0.00
PRECIPITATION (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
MAKEUP TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SEEPAGE (CFS)	-0.13 (7171954)	-0.20 (6181954)	-0.17
EVAPORATION TOTAL (CFS)	-0.48 (6291954)	-5.43 (6181954)	-1.83
EVAPORATION NATURL (CFS)	-0.24 (6291954)	-4.14 (6271954)	-1.20
EVAPORATION FORCED (CFS)	-0.15 (7171954)	-2.48 (6181954)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SOLAR GAIN (BTU/HR-FT2)	451.13 (6191954)	90.18 (7071954)	223.80
SURF LOSS (BTU/HR-FT2)	165.58 (6181954)	134.89 (7071954)	146.59
EVAP LOSS (BTU/HR-FT2)	275.61 (6271954)	16.17 (6291954)	80.13
COND LOSS (BTU/HR-FT2)	37.15 (6271954)	-47.13 (7121954)	2.30
LAKE TEMP NATURAL (F)	101.42 (6181954)	73.38 (7071954)	84.52
LAKE TEMP @ INLET (F)	140.00 (6181954)	82.37 (7071954)	95.38
LAKE TEMP @ OUTLET (F)	104.65 (6181954)	73.45 (7071954)	85.55
DISSOLVED SOLIDS (PPM)	0.00 (6181954)	0.00 (6181954)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.03 (7171954)	-0.05 (6181954)	-9.84
TOTAL EVAP TOT (ACRE-FT)	-0.12 (6291954)	-1.35 (6181954)	-108.78
TOTAL EVAP NAT (ACRE-FT)	-0.06 (6291954)	-1.03 (6271954)	-71.20
TOTAL EVAP FOR (ACRE-FT)	-0.04 (7171954)	-0.62 (6181954)	-37.58
TOTAL BLWD TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.0	93.3	84.1
LAKE TEMP @ INLET (F)	133.0	107.5	94.5
LAKE TEMP @ OUTLET (F)	104.0	94.0	85.2

Table H7.10. Cumulative Summary for Case 4a – 12" Sediment, 09:00 Start Time, 1/30 Weather Data

Case 4a: LaSalle UHS (09:00, Worst Day Temp; To=104F, 1.0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.81 (7311900)	689.34
TOTAL AREA (ACRE)	82.14 (7011900)	80.24 (7311900)	81.10
TOTAL VOLUME (ACRE-FT)	381.31 (7011900)	285.29 (7311900)	328.51
EFFECTIVE AREA (ACRE)	73.93 (7011900)	72.22 (7311900)	72.99
EFFECTIVE VOL (ACRE-FT)	343.17 (7011900)	256.73 (7311900)	295.63
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.15 (7311900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.26 (7161900)	-4.78 (7021900)	-1.40
EVAPORATION NATURL (CFS)	0.00 (7011900)	-3.60 (7031900)	-0.76
EVAPORATION FORCED (CFS)	-0.26 (7161900)	-2.08 (7011900)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	204.97
SURF LOSS (BTU/HR-FT2)	165.49 (7011900)	143.62 (7061900)	151.30
EVAP LOSS (BTU/HR-FT2)	234.70 (7031900)	0.00 (7011900)	50.37
COND LOSS (BTU/HR-FT2)	39.43 (7261900)	-6.87 (7261900)	6.88
LAKE TEMP NATURAL (F)	101.35 (7011900)	81.80 (7061900)	88.87
LAKE TEMP @ INLET (F)	138.41 (7011900)	92.47 (7251900)	99.69
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	82.96 (7061900)	89.86
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7311900)	-0.05 (7011900)	-10.71
TOTAL EVAP TOT (ACRE-FT)	-0.06 (7161900)	-1.18 (7021900)	-85.89
TOTAL EVAP NAT (ACRE-FT)	0.00 (7011900)	-0.89 (7031900)	-46.97
TOTAL EVAP FOR (ACRE-FT)	-0.06 (7161900)	-0.51 (7011900)	-38.91
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	97.0	88.3
LAKE TEMP @ INLET (F)	132.0	110.0	98.7
LAKE TEMP @ OUTLET (F)	103.0	97.0	89.4

Table H7.11. Cumulative Summary for Case 4b – 12" Sediment, 09:00 Start Time, 5/1/30 Weather Data

Case 4b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104F, 1.0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.45 (8051900)	689.17
TOTAL AREA (ACRE)	82.13 (7011900)	79.67 (8051900)	80.82
TOTAL VOLUME (ACRE-FT)	381.11 (7011900)	256.19 (8051900)	314.56
EFFECTIVE AREA (ACRE)	73.93 (7011900)	71.69 (8051900)	72.74
EFFECTIVE VOL (ACRE-FT)	342.99 (7011900)	230.54 (8051900)	283.07
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.29 (8051900)	-4.06 (7051900)	-1.59
EVAPORATION NATURL(CFS)	0.00 (7031900)	-2.73 (7051900)	-0.95
EVAPORATION FORCED(CFS)	-0.25 (7311900)	-1.84 (7011900)	-0.64
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	165.45 (7011900)	142.91 (7241900)	153.49
EVAP LOSS (BTU/HR-FT2)	178.35 (7051900)	0.00 (7031900)	63.07
COND LOSS (BTU/HR-FT2)	26.10 (7051900)	-31.35 (7251900)	5.38
LAKE TEMP NATURAL (F)	101.31 (7011900)	81.13 (7241900)	90.84
LAKE TEMP @ INLET (F)	137.91 (7011900)	90.55 (7241900)	101.20
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	82.04 (7241900)	91.59
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.03 (8051900)	-0.05 (7011900)	-11.95
TOTAL EVAP TOT (ACRE-FT)	-0.07 (8051900)	-1.01 (7051900)	-113.75
TOTAL EVAP NAT (ACRE-FT)	0.00 (7031900)	-0.68 (7051900)	-68.07
TOTAL EVAP FOR (ACRE-FT)	-0.06 (7311900)	-0.46 (7011900)	-45.67
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.5	97.2	90.9
LAKE TEMP @ INLET (F)	132.0	110.6	100.9
LAKE TEMP @ OUTLET (F)	103.0	98.1	91.7

Table H7.12. Cumulative Summary for Case 4c – 12" Sediment, 12:00 Start Time, Worst 30-day Evaporation

Case 4c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 1.0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (6181954)	20.00 (6181954)	20.00
LAKE ELEVATION (FEET)	690.00 (6181954)	688.52 (7171954)	689.21
TOTAL AREA (ACRE)	82.14 (6181954)	79.78 (7171954)	80.89
TOTAL VOLUME (ACRE-FT)	381.62 (6181954)	261.88 (7171954)	317.77
EFFECTIVE AREA (ACRE)	73.94 (6181954)	71.80 (7171954)	72.80
EFFECTIVE VOL (ACRE-FT)	343.45 (6181954)	235.66 (7171954)	285.96
CIRCULATION TIME (HR)	0.00 (6181954)	0.00 (6181954)	0.00
PRECIPITATION (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
MAKEUP TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SEEPAGE (CFS)	-0.14 (7171954)	-0.20 (6181954)	-0.17
EVAPORATION TOTAL (CFS)	-0.49 (6291954)	-5.43 (6181954)	-1.85
EVAPORATION NATURL(CFS)	-0.26 (6291954)	-4.11 (6271954)	-1.22
EVAPORATION FORCED(CFS)	-0.16 (7171954)	-2.44 (6181954)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SOLAR GAIN (BTU/HR-FT2)	451.13 (6191954)	90.18 (7071954)	223.80
SURF LOSS (BTU/HR-FT2)	165.64 (6181954)	136.01 (7071954)	146.72
EVAP LOSS (BTU/HR-FT2)	270.89 (6271954)	17.13 (6291954)	80.62
COND LOSS (BTU/HR-FT2)	37.53 (6271954)	-47.07 (7121954)	2.46
LAKE TEMP NATURAL (F)	101.48 (6181954)	74.48 (7071954)	84.64
LAKE TEMP @ INLET (F)	140.00 (6181954)	83.77 (7071954)	95.53
LAKE TEMP @ OUTLET (F)	104.84 (6181954)	74.79 (7071954)	85.68
DISSOLVED SOLIDS (PPM)	0.00 (6181954)	0.00 (6181954)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7171954)	-0.05 (6181954)	-10.05
TOTAL EVAP TOT (ACRE-FT)	-0.12 (6291954)	-1.35 (6181954)	-109.95
TOTAL EVAP NAT (ACRE-FT)	-0.06 (6291954)	-1.02 (6271954)	-72.35
TOTAL EVAP FOR (ACRE-FT)	-0.04 (7171954)	-0.61 (6181954)	-37.60
TOTAL BLWD TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00

TEMPERATURE	FREQUENCY OF OCCURENCES		
	1%	5%	50%
LAKE TEMP NATURAL (F)	100.0	94.0	84.0
LAKE TEMP @ INLET (F)	133.0	108.0	94.5
LAKE TEMP @ OUTLET (F)	104.0	94.0	85.1

Figure H7.1: 1/30 Plant Inlet Temperature vs Day

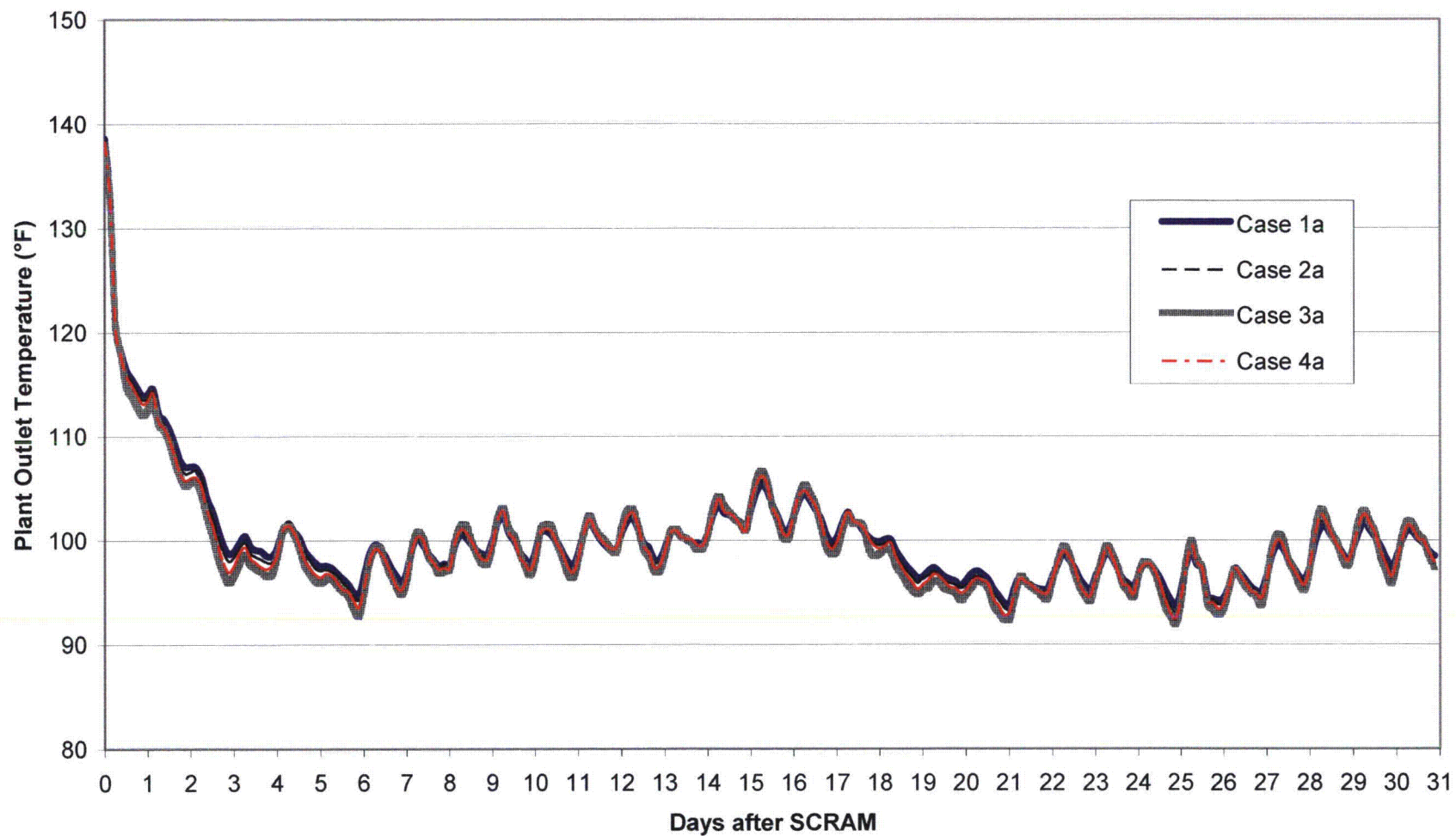


Figure H7.2: 1/30 Plant Outlet Temperature vs Day

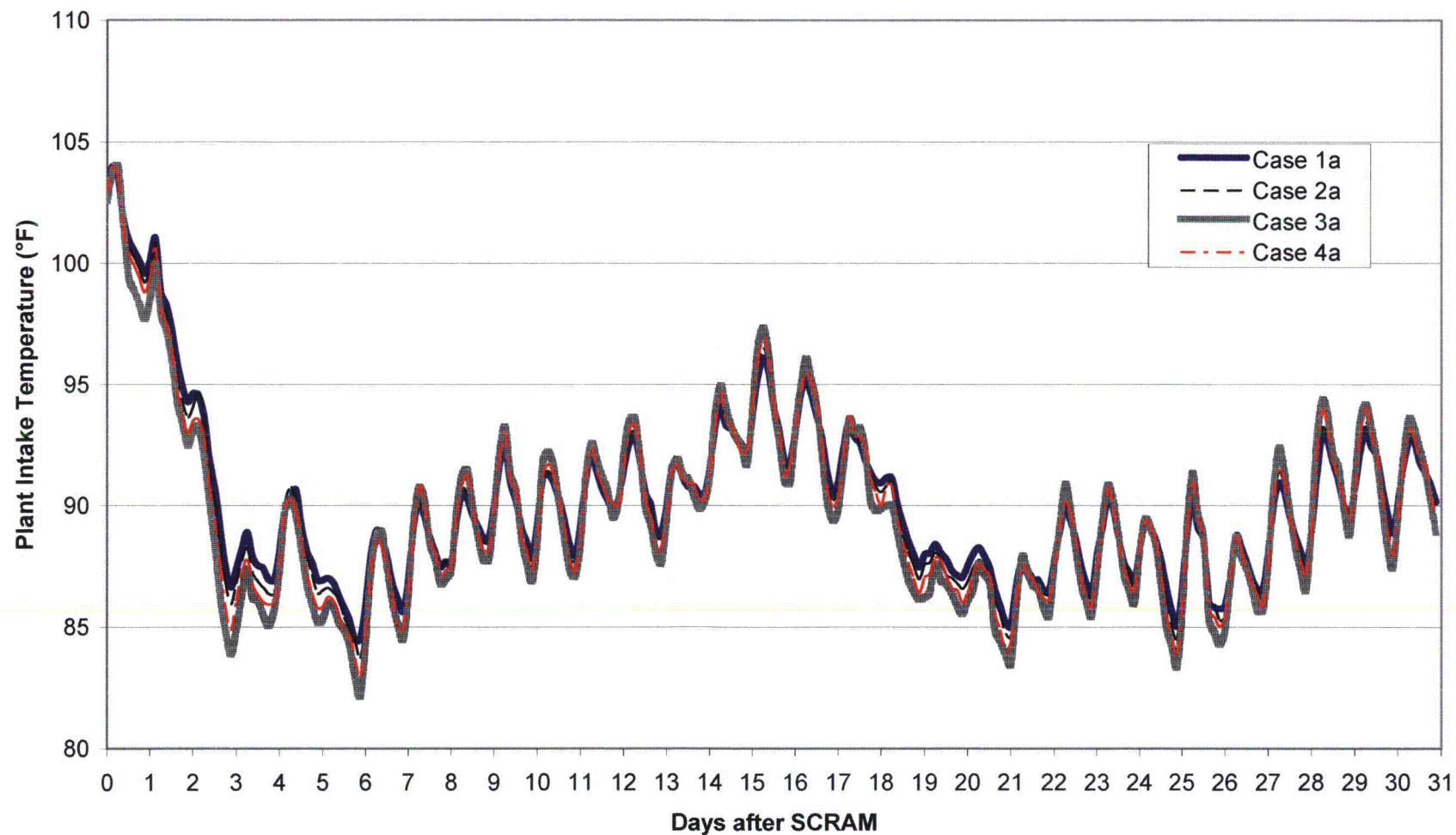


Figure H7.3: 5/1/30 Plant Inlet Temperature vs Day

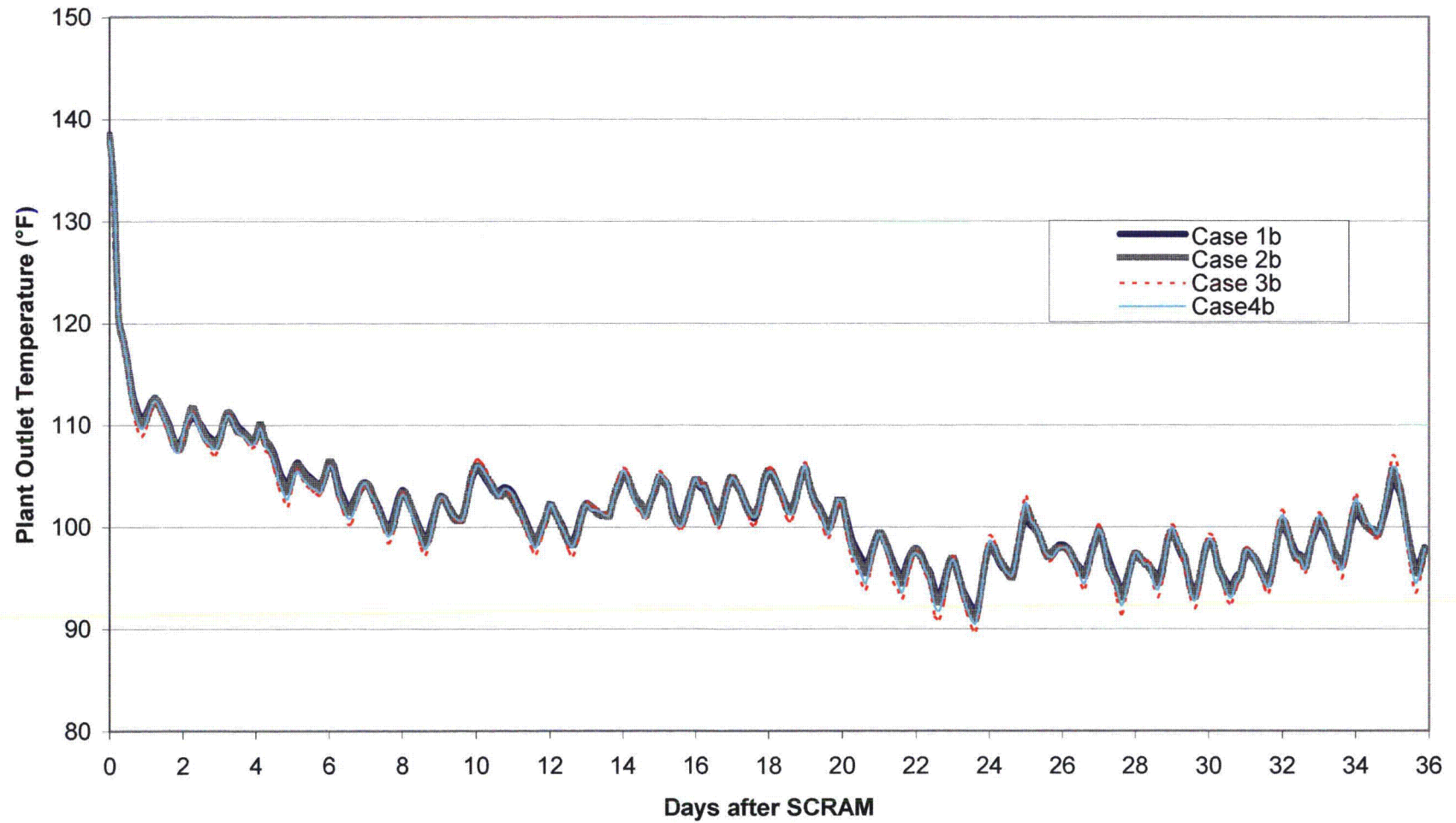


Figure H7.4: 5/1/30 Plant Outlet Temperature vs Day

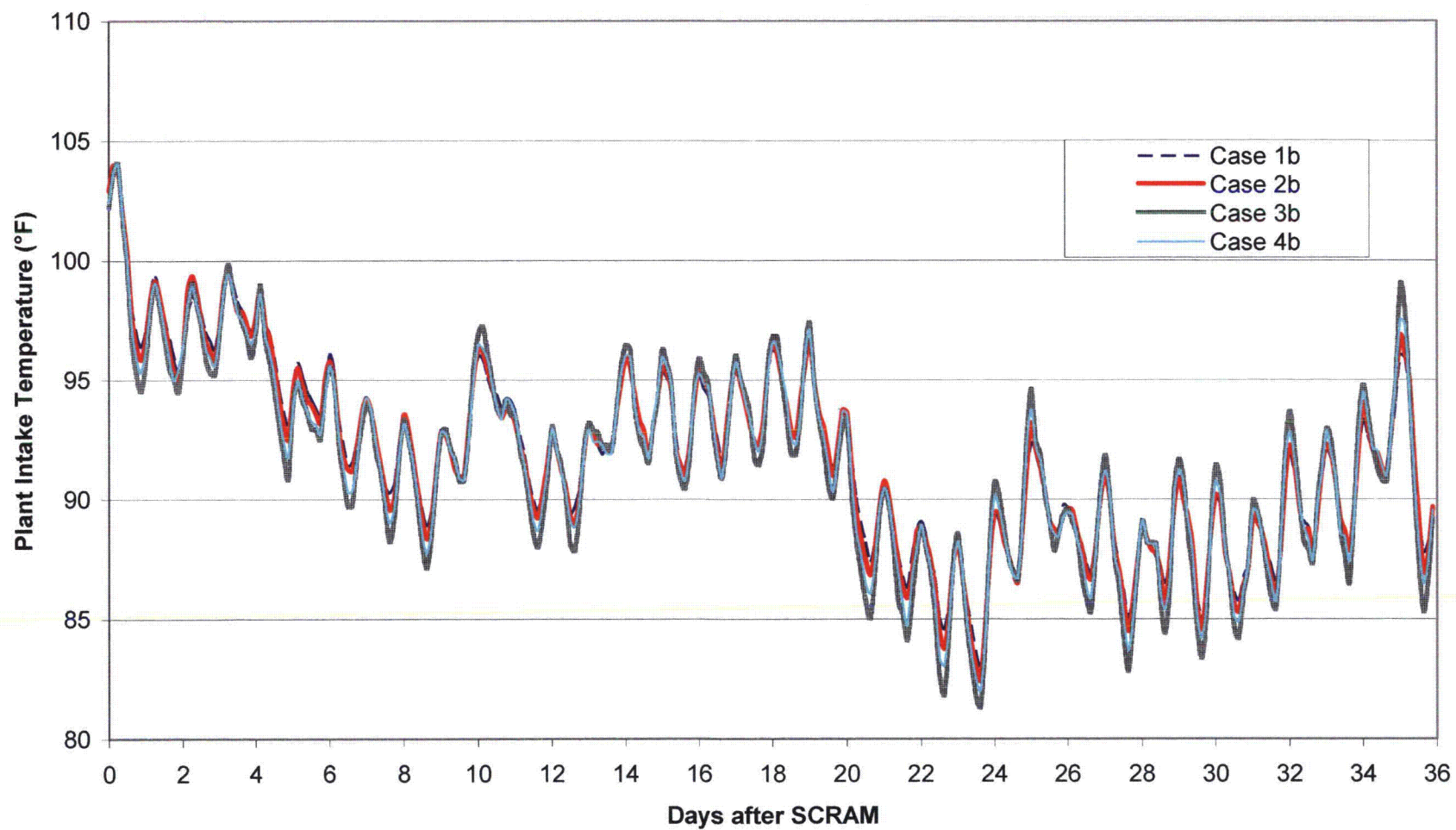
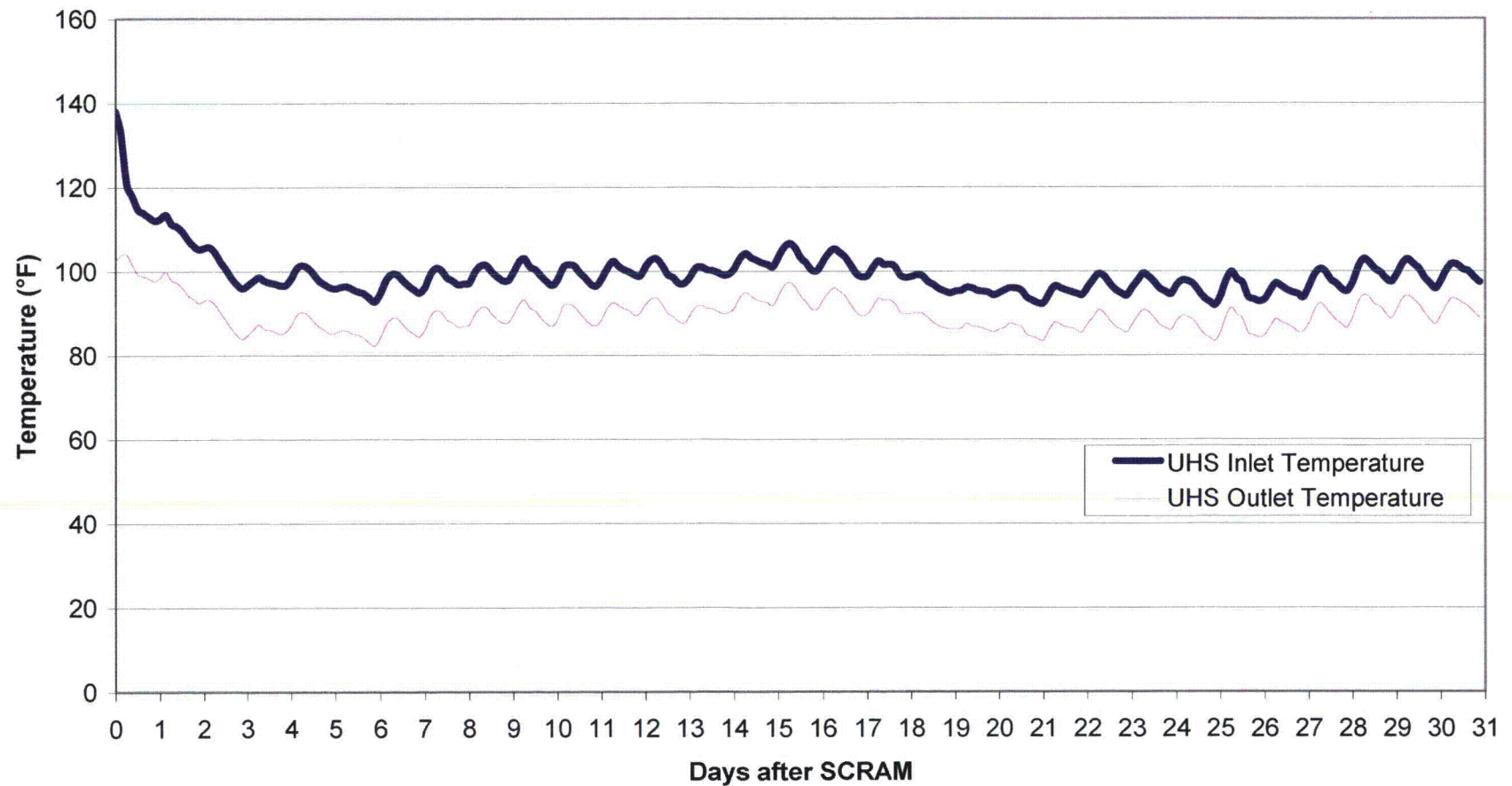
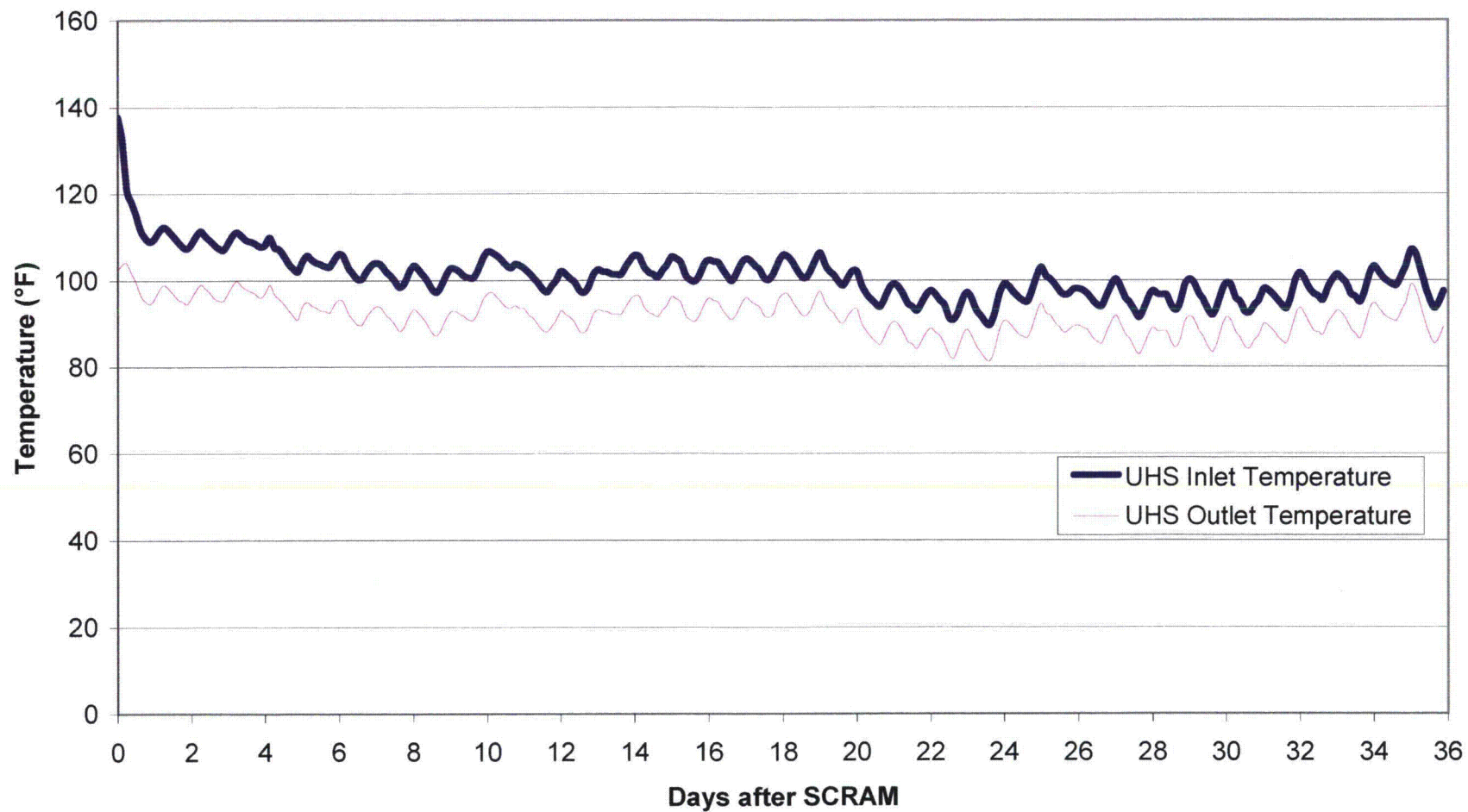


Figure H7.5, Case 3a: UHS LOCA Temperature Transient
Worst 31-Day Temperature Period
(d = 18", t = 0900 hrs, Ti = 102.3F)



**Figure H7.6, Case 3b: UHS LOCA Temperature Transient
Worst 36-Day Temperature Period
(d = 18", t = 0900 hrs, Ti = 102.9F)**



**Figure H7.7, Case 3c: UHS LOCA Drawdown
Worst 30 Day Evaporation Weather Period
(d = 18", t=1200 hrs, Ti = 102.3F)**

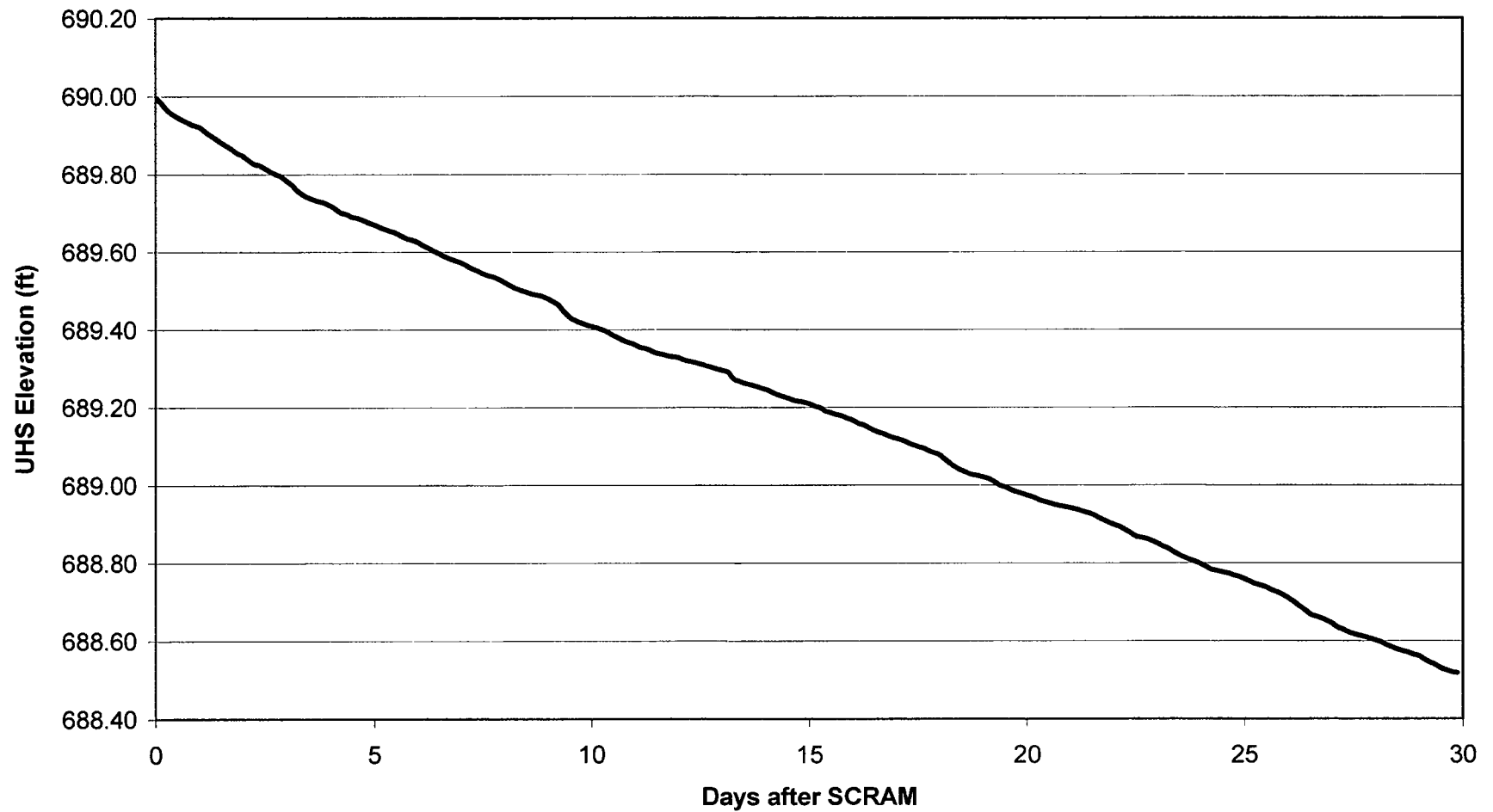


Table H7.13 Table of Output Files

WEATHER FILES	REV.	LAKET-PC Software Version	Start Pg. No.	No. of Pages
5-1-30days9am.txt	5	LAKET-PC Version 2.2	H31	16
30dayevap.txt	5	LAKET-PC Version 2.2	H47	14
worstday-9am.txt	5	LAKET-PC Version 2.2	H61	16
OUTPUT FILES				
1a.out	5	LAKET-PC Version 2.2	H77	16
1b.out	5	LAKET-PC Version 2.2	H93	16
1c.out	5	LAKET-PC Version 2.2	H109	16
2a.out	5	LAKET-PC Version 2.2	H125	16
2b.out	5	LAKET-PC Version 2.2	H141	16
2c.out	5	LAKET-PC Version 2.2	H157	16
3a.out	5	LAKET-PC Version 2.2	H173	16
3b.out	5	LAKET-PC Version 2.2	H189	16
3c.out	5	LAKET-PC Version 2.2	H205	16
4a.out	6	LAKET-PC Version 2.2	H221	21
4b.out	6	LAKET-PC Version 2.2	H242	21
4c.out	6	LAKET-PC Version 2.2	H263	21
VERIFICATION RUNS				
C00e.out	5	LAKET-PC Version 2.2	H284	15
C06e.out	5	LAKET-PC Version 2.2	H299	15
C18e.out	5	LAKET-PC Version 2.2	H314	15
C0609.out	5	LAKET-PC Version 2.2	H329	16

03/29/06
Page 1 of 1

SEAG Number: 06-000100

To:
Manuel Vega
Sargent and Lundy, LLC

From:
Mike Peters
Engineer
LaSalle Station

Subject: Requested Input for L-002457 Revision 5

Revision 5 to Design Analysis L-002457 should be performed with a maximum UHS outlet temperature of 104°F consistent with Design Analysis L-002857. This temperature limit of 104°F is also consistent with License Amendment Request RS-06-021.

There are no limitations or unverified information associated with this document.

Prepared by: M.A.Peters /  / 03/29/06

Reviewed by: D.Schmit /  / 03/29/06

Approved by: L.Lehman /  / 03/29/06

References:

1. L-002857, LSCS RHR Heat Exchanger K Factor Sensitivity Study, 1(2)RH01A&B, Rev. 0A.
2. RS-06-021, Request for a License Amendment to Technical Specification 3.7.3, "Ultimate Heat Sink." Dated 03/13/06.

SEAG 03-000103

From MICHAEL E DUFFY/Sargentlundy To NICHOLAS H LEE
Subject Fw: Uhsavg Program Capabilitie... cc

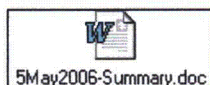
See attached.

Michael E. Duffy
(312) 269-6638
Fax (312) 269-7041

— Forwarded by MICHAEL E DUFFY/Sargentlundy on 05/05/2006 02:56 PM —

**PAUL N
DEREZOTES/Sargentlundy**
05/05/2006 02:51 PM

To	MICHAEL E DUFFY/Sargentlundy@Sargentlundy
cc	WILLARD L BOWARD/Sargentlundy@Sargentlundy
Subject	Uhsavg Program Capabilities Summary for LaSalle



1 Request

Request was to briefly summarize relevance of the S&L Uhsavg program to U. S. Nuclear Regulatory Commission (US NRC) regulatory guidance for ultimate heat sinks.

2 Summary

UHS AVG Program Implementation versus RG 1.27 Rev 2

The S&L mainframe computer program "Uhsavg" (S&L 1997) produces output that allows an analyst to implement the cooling lake worst temperature and worst evaporation period analysis procedures recommended by US NRC Regulatory Guide 1.27 Revision 2 (US NRC 1976) as listed in Table 1.

The specific method used by Uhsavg to identify worst temperature and evaporation periods is via calculations of one-day, five-day, 30-day, and 36-day mean lake temp, and 30-day mean lake evaporation. Those calculations are done on a rolling average basis, using a user-requested period of historical meteorological record as input. Program output includes a list of starting and ending date and hour for each worst period identified.

The analyst manually extracts hourly meteorological data from the historical weather file for worst periods identified by Uhsavg. After extraction, the analyst can input those data into the Laket program as needed to satisfy Regulatory Guide 1.27 Revision 2. For example, the analyst can combine hourly weather data for the identified worst five, one, and 30 day temp periods into a single file, in that order, for input to Laket analysis.

UHS AVG Program Implementation versus RG 1.27 Rev1

The S&L mainframe computer program "Uhsavg" (S&L 1997) also produces output that allows an analyst to implement the cooling lake worst temperature procedures recommended by US NRC Regulatory Guide 1.27 Revision 1 (US NRC 1974) as listed in Table 1.

The specific method used by Uhsavg to identify worst temperature periods is via calculations of one-day and 30-day mean lake temperature. Those calculations are done on a rolling average basis, using a user-requested period of historical meteorological record as input. Program output includes a list of starting and ending date and hour for each worst period identified.

The analyst manually extracts hourly meteorological data from the historical weather file for worst periods identified by Uhsavg. After extraction,

the analyst can input those data into the Laket program as needed to satisfy Regulatory Guide 1.27 Revision 1. For example, the analyst can combine hourly weather data for the identified worst one and 30 day temp periods into a single 30-day file for input to Laket analysis.

Uhsavg versus Laket Algorithms

Table 2 presents a short list comparing some of the major calculation algorithms, terms, and flows used in Laket and Uhsavg.

3 References

Sargent & Lundy (S&L), "User Manual, UHSAVG, Determination of Worst Average Weather Periods for Cooling Pond and Wet Cooling Tower Ultimate Heat Sinks", S&L (mainframe computer) Program No. 03.7.642-1.0, September 1997.

U. S. Nuclear Regulatory Commission (US NRC), "Regulatory Guide 1.27, Ultimate Heat Sink for Nuclear Power Plants", Revision 1, March 1974.

U. S. Nuclear Regulatory Commission (US NRC), "Regulatory Guide 1.27, Ultimate Heat Sink for Nuclear Power Plants", Revision 2, January 1976.

Table 1

Procedural Options Recommended by US NRC Regulatory Guide 1.27 Revisions 1 and 2 for Selecting Meteorological Conditions to Be Considered in the Design of a Cooling Lake that Will Be Used as an Ultimate Heat Sink

US NRC RG 1.27 rev 2 guidance recommends use of either (1) or (2) below) as guidance for identifying the worst cooling lake temp period, and the use of (3) as guidance for identifying the worst cooling lake evaporation period.

Procedural Option (1):

Identify three critical time periods: five days, one day, and 30 days for use as a design basis, including:

- (a) Five warmest temp days on record during which cooling water reaches a maximum temp after reactor shutdown
- (b) Single warmest temp day on record
- (c) Thirty days with the warmest temp on record

These three periods need not be assumed to occur contiguously for analysis, but may be combined in the indicated order (five, one, 30) to produce a synthetic 36-day period which may be used as a design basis for the lake.

Procedural Option (2):

Identify the 36-consecutive-day period from historical climate records with the highest temp for use as a design basis. This period may or may not include the worst five, one, or 30-day periods.

Procedural Option (2):

Identify the worst 30-day average combination of parameters that control maximum evaporation and drift losses for use as a design basis.

US NRC RG 1.27 rev 1 guidance recommends use of (1) below as guidance for identifying the worst cooling lake temp period, and the use of (2) as guidance for identifying the worst cooling lake evaporation period.

Assumptions of the NRC guidance included the following:

- (1) Analysis of worst lake temp should analyze historical regional weather measurements. It should identify the worst one day period and the worst 30 day period that result in minimum heat transfer to the atmosphere and maximum plant intake temp. The worst one day should be assumed to be the first day of the worst 30-day period of record. Diurnal temp variations should be included in the analysis.
- (2) Analysis of worst case availability of a 30 day cooling water supply should analyze historical regional weather measurements. It should identify the worst recorded 30 day mean of maximum difference between dry bulb temp and dew point temp (delta-T) and the highest simultaneous wind speeds, such that the combination of delta-T and simultaneous wind speeds results in the maximum amount of evaporation and drift loss.

Table 2**Selected Major Calculation Algorithms, Terms, and Flows Used in Laket and Uhsavg**

Parameter	Description	Included In Laket Algorithm?	Included in Uhsavg Algorithm?
Qai	Incident (incoming) long-wave radiation from atmosphere	Yes	Yes
Qar	Long wave radiation reflected back from lake surface	Yes	No
Qsi	Incident (incoming) solar (short-wave) radiation	Yes	Yes
Qsr	Short wave radiation reflected back from lake surface	Yes	No
Qbr	Long wave (outgoing or back) radiation emitted by lake surface	Yes	Yes
Qe	Evaporative heat flux	Yes	Yes
Qc	Conductive (sensible) heat flux to or from lake surface	Yes	Yes
	Variation of pond volume	Yes	No
	Runoff / Precipitation	Yes	Optional
	Makeup	Yes	No
	Evaporation	Yes	Yes
	Plant heat rejection	Yes	Yes
	Simulation capability for a "natural" lake	Yes	No
	Essential service water flow	Yes	Yes
	Condenser specific characteristics	Yes	No

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
			(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)					
0.	1900.	7.	1.		.00	35000.00	9.00	8.00	85.00	78.32	75.95	75.00	29.26	.00	.00	.00	215.60	126.66	.92
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		3.00	35000.00	8.00	8.00	92.00	81.26	77.69	64.00	29.24	4.00	.00	.00	288.37	140.45	.97
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		6.00	35000.00	9.00	9.00	95.00	83.23	79.53	62.00	29.22	6.00	.00	.00	212.03	149.90	1.03
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		9.00	35000.00	9.00	8.00	93.00	82.14	78.64	64.00	29.19	.00	.00	.00	45.43	138.23	1.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		12.00	35000.00	9.00	4.00	86.00	79.82	77.74	77.00	29.20	.00	.00	.00	.00	128.06	.97
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		15.00	35000.00	9.00	10.00	82.00	78.23	76.92	85.00	29.20	.00	.00	.00	.00	122.53	.94
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		18.00	35000.00	9.00	6.00	79.00	77.57	77.08	94.00	29.21	.00	.00	.00	.00	118.52	.95
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		21.00	35000.00	9.00	5.00	79.00	78.29	78.06	97.00	29.25	.00	.00	.00	50.89	118.52	.98
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	35000.00	10.00	9.00	88.00	81.69	79.68	77.00	29.26	.00	.00	.00	215.16	130.90	1.03
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		3.00	35000.00	10.00	8.00	95.00	83.23	79.53	62.00	29.25	.00	.00	.00	281.23	141.26	1.03
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		6.00	35000.00	10.00	9.00	99.00	83.32	78.30	53.00	29.24	.00	.00	.00	211.11	147.47	1.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		9.00	35000.00	11.00	7.00	95.00	81.79	77.43	58.00	29.23	.00	.00	.00	45.22	141.26	.97
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		12.00	35000.00	9.00	5.00	86.00	79.82	77.74	77.00	29.24	.00	.00	.00	.00	128.06	.97
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		15.00	35000.00	10.00	5.00	82.00	78.23	76.92	85.00	29.26	.00	.00	.00	.00	122.53	.94
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		18.00	35000.00	11.00	4.00	80.00	77.83	77.07	91.00	29.29	.00	.00	.00	.00	119.84	.95
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		21.00	35000.00	9.00	5.00	79.00	77.58	77.08	94.00	29.34	.00	.00	.00	50.22	118.52	.95
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	35000.00	12.00	7.00	90.00	82.35	79.93	73.00	29.33	.00	.00	.00	214.70	133.79	1.04
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		3.00	35000.00	11.00	10.00	95.00	81.80	77.43	58.00	29.32	.00	.00	.00	280.99	141.26	.97
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		6.00	35000.00	10.00	8.00	96.00	80.79	75.53	53.00	29.28	.00	.00	.00	210.96	142.79	.91

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
			(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)						
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	9.00	35000.00	11.00	6.00	93.00	79.35	74.46	56.00	29.25	.00	.00	.00	44.99	138.23	.88	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	12.00	35000.00	9.00	5.00	85.00	78.32	75.95	75.00	29.25	.00	.00	.00	.00	126.66	.92	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	15.00	35000.00	12.00	3.00	81.00	77.28	75.93	85.00	29.29	.00	.00	.00	.00	121.18	.91	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	18.00	35000.00	.00	.00	76.00	74.63	74.09	94.00	29.29	.00	.00	.00	.00	114.61	.86	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	21.00	35000.00	11.00	3.00	78.00	75.88	75.08	91.00	29.31	1.00	.00	.00	50.24	117.40	.89	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	35000.00	12.00	5.00	88.00	79.59	76.69	70.00	29.32	4.00	.00	.00	219.49	134.46	.94
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	3.00	35000.00	15.00	8.00	91.00	79.71	75.76	62.00	29.28	5.00	.00	.00	285.50	141.00	.91	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	6.00	35000.00	12.00	8.00	94.00	78.72	73.09	52.00	29.24	1.00	.00	.00	213.84	139.97	.84	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	9.00	35000.00	11.00	6.00	91.00	76.20	70.32	52.00	29.18	.00	.00	.00	44.74	135.26	.77	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	12.00	35000.00	10.00	3.00	82.00	75.26	72.63	74.00	29.23	5.00	.00	.00	.00	127.74	.82	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	15.00	35000.00	.00	.00	78.00	73.65	71.88	82.00	29.25	1.00	.00	.00	.00	117.40	.80	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	18.00	35000.00	.00	.00	74.00	72.66	72.10	94.00	29.23	4.00	.00	.00	.00	115.12	.80	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.	21.00	35000.00	9.00	3.00	74.00	72.66	72.10	94.00	29.23	5.00	.00	.00	49.64	116.83	.80	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	35000.00	12.00	7.00	85.00	77.45	74.68	72.00	29.23	1.00	.00	.00	216.83	126.87	.88
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.	3.00	35000.00	12.00	8.00	90.00	76.78	71.67	56.00	29.23	8.00	.00	.00	269.51	148.35	.80	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.	6.00	7500.00	15.00	11.00	82.00	72.69	68.68	65.00	29.20	10.00	.00	.00	69.52	143.36	.72	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.	9.00	35000.00	12.00	4.00	81.00	75.70	73.67	79.00	29.18	8.00	.00	.00	42.72	134.36	.85	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.	12.00	35000.00	14.00	4.00	76.00	75.32	75.06	97.00	29.23	4.00	.00	.00	.00	117.73	.88	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
			(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)				
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		15.00	35000.00	15.00	5.00	71.00	68.83	67.81	90.00	29.24	1.00	.00	.00	.00	108.53
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		18.00	35000.00	13.00	3.00	67.00	66.39	66.06	97.00	29.23	3.00	.00	.00	.00	105.12
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		21.00	35000.00	13.00	4.00	70.00	68.51	67.79	93.00	29.25	1.00	.00	.00	48.77	107.31
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	35000.00	15.00	8.00	91.00	79.71	75.76	62.00	29.28	5.00	.00	.00	285.50	141.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		3.00	35000.00	12.00	8.00	94.00	78.72	73.09	52.00	29.24	1.00	.00	.00	213.84	139.97
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		6.00	35000.00	11.00	6.00	91.00	76.20	70.32	52.00	29.18	.00	.00	.00	44.74	135.26
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		9.00	35000.00	10.00	3.00	82.00	75.26	72.63	74.00	29.23	5.00	.00	.00	.00	127.74
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		12.00	35000.00	.00	.00	78.00	73.65	71.88	82.00	29.25	1.00	.00	.00	.00	117.40
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		15.00	35000.00	.00	.00	74.00	72.66	72.10	94.00	29.23	4.00	.00	.00	.00	115.12
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		18.00	35000.00	9.00	3.00	74.00	72.66	72.10	94.00	29.23	5.00	.00	.00	49.64	116.83
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		21.00	35000.00	12.00	7.00	85.00	77.45	74.68	72.00	29.23	1.00	.00	.00	216.83	126.87
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	6.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	35000.00	8.00	6.00	90.00	71.28	62.24	41.00	29.31	.00	.00	.00	211.46	133.79
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		3.00	35000.00	9.00	5.00	87.00	72.88	66.63	52.00	29.28	.00	.00	.00	45.79	129.47
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		6.00	35000.00	8.00	6.00	78.00	68.87	64.43	64.00	29.30	.00	.00	.00	.00	117.20
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		9.00	35000.00	9.00	4.00	72.00	65.83	62.58	73.00	29.30	.00	.00	.00	.00	109.58
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		12.00	35000.00	10.00	3.00	68.00	63.97	61.74	81.00	29.29	.00	.00	.00	.00	104.72
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		15.00	35000.00	.00	.00	68.00	65.28	63.83	87.00	29.33	2.00	.00	.00	53.39	105.44
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		18.00	35000.00	12.00	7.00	83.00	73.59	69.63	65.00	29.35	.00	.00	.00	216.03	123.89
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
			(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)				
0.	1900.	7.	7.	21.00	35000.00	11.00	11.00	89.00	74.55	68.47	52.00	29.30	4.00	.00	.00	288.58	135.94	.72
0.	1900.	7.	7.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	7.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	35000.00	11.00	10.00	92.00	75.94	69.43	49.00	29.28	.00	.00	.00	211.35	136.74	.75
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	3.00	35000.00	10.00	6.00	89.00	75.24	69.62	54.00	29.28	2.00	.00	.00	46.69	133.24	.75
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	6.00	35000.00	10.00	5.00	79.00	71.97	68.91	72.00	29.30	.00	.00	.00	.00	118.52	.72
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	9.00	35000.00	12.00	5.00	77.00	70.67	67.80	74.00	29.33	3.00	.00	.00	.00	117.68	.70
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	12.00	35000.00	15.00	5.00	73.00	69.39	67.71	84.00	29.34	.00	.00	.00	.00	110.82	.69
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	15.00	35000.00	1.00	7.00	73.00	67.48	64.73	76.00	29.39	3.00	.00	.00	52.92	112.51	.63
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	18.00	35000.00	3.00	10.00	81.00	68.22	61.66	53.00	29.43	.00	.00	.00	215.60	121.18	.57
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	21.00	35000.00	1.00	6.00	86.00	69.99	62.05	46.00	29.42	.00	.00	.00	281.45	128.06	.58
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	8.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	35000.00	2.00	5.00	89.00	70.52	61.34	41.00	29.39	5.00	.00	.00	214.81	137.96	.57
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	3.00	35000.00	1.00	5.00	87.00	69.70	60.96	43.00	29.38	1.00	.00	.00	46.09	129.69	.56
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	6.00	35000.00	1.00	5.00	78.00	67.18	61.52	58.00	29.40	.00	.00	.00	.00	117.20	.56
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	9.00	35000.00	3.00	5.00	74.00	65.88	61.54	66.00	29.42	.00	.00	.00	.00	112.07	.56
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	12.00	35000.00	5.00	5.00	73.00	64.48	59.69	64.00	29.42	.00	.00	.00	.00	110.82	.53
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	15.00	35000.00	7.00	5.00	74.00	63.76	57.78	58.00	29.46	.00	.00	.00	50.89	112.07	.49
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	18.00	35000.00	7.00	9.00	82.00	68.42	61.44	51.00	29.45	2.00	.00	.00	220.18	123.36	.57
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	21.00	35000.00	9.00	7.00	88.00	73.73	67.55	52.00	29.44	5.00	.00	.00	285.99	136.46	.70
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	9.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	10.	.00	35000.00	9.00	6.00	89.00	76.29	71.28	57.00	29.40	9.00	.00	.00	196.56	150.56	.79
0.	1900.	7.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	10.	3.00	35000.00	6.00	4.00	89.00	76.29	71.28	57.00	29.39	10.00	.00	.00	40.51	154.83	.79

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Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.	
					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)			
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.	6.00	35000.00		7.00	4.00	83.00	75.63	72.76	72.00	29.39	10.00	.00	.00	.00	144.95	.82	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.	9.00	35000.00		9.00	4.00	78.00	70.25	66.67	69.00	29.39	8.00	.00	.00	.00	129.96	.67	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.	12.00	35000.00		6.00	3.00	77.00	72.71	70.90	82.00	29.38	8.00	.00	.00	.00	128.51	.77	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.	15.00	7500.00		.00	.00	75.00	72.02	70.74	87.00	29.40	7.00	.00	.00	37.18	122.78	.77	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.	18.00	35000.00		13.00	4.00	86.00	75.64	71.52	63.00	29.41	1.00	.00	.00	217.80	128.27	.79	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.	21.00	35000.00		11.00	5.00	91.00	76.23	70.32	52.00	29.39	10.00	.00	.00	251.72	158.25	.77	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	10.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		30000.00	11.00	5.00	91.00	76.94	71.48	54.00	29.35	10.00	.00	.00	188.99	158.25	.80
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	3.00	35000.00		8.00	3.00	88.00	74.06	68.13	53.00	29.33	10.00	.00	.00	40.30	153.15	.71	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	6.00	30000.00		9.00	5.00	88.00	76.09	71.40	59.00	29.33	10.00	.00	.00	.00	153.15	.79	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	9.00	25000.00		9.00	3.00	78.00	72.37	69.97	77.00	29.32	10.00	.00	.00	.00	137.13	.75	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	12.00	23000.00		6.00	3.00	75.00	71.53	70.03	85.00	29.30	10.00	.00	.00	.00	132.60	.75	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	15.00	24000.00		6.00	4.00	75.00	70.81	68.95	82.00	29.31	9.00	.00	.00	38.55	128.94	.72	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	18.00	4000.00		9.00	7.00	82.00	74.71	71.79	72.00	29.32	7.00	.00	.00	158.59	132.74	.80	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.	21.00	11000.00		10.00	9.00	86.00	75.63	71.52	63.00	29.33	10.00	.00	.00	116.51	149.83	.79	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	11.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.		.00		12000.00	9.00	10.00	90.00	75.38	69.40	52.00	29.29	10.00	.00	.00	87.48	156.53	.74
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.	3.00	12000.00		9.00	8.00	86.00	74.99	70.54	61.00	29.26	10.00	.00	.00	18.57	149.83	.77	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.	6.00	25000.00		9.00	5.00	80.00	71.49	67.69	67.00	29.27	10.00	.00	.00	.00	140.22	.70	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	12.	9.00	35000.00		9.00	5.00	75.00	69.33	66.67	76.00	29.28	5.00	.00	.00	.00	118.15	.67	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	

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Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
					(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)	
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.	12.00	35000.00		9.00	5.00	72.00	68.44	66.73	84.00	29.29	6.00	.00	.00	.00	116.28
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.	15.00	35000.00		12.00	4.00	72.00	69.13	67.78	87.00	29.33	7.00	.00	.00	48.08	118.70
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.	18.00	35000.00		13.00	9.00	84.00	73.87	69.63	63.00	29.35	4.00	.00	.00	219.00	128.68
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.	21.00	3700.00		11.00	9.00	89.00	75.60	70.18	55.00	29.33	7.00	.00	.00	207.65	143.36
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	12.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	3.00	35000.00		11.00	7.00	88.00	74.74	69.26	55.00	29.28	4.00	.00	.00	45.56	134.46
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	6.00	35000.00		10.00	4.00	79.00	71.97	68.91	72.00	29.30	4.00	.00	.00	.00	121.74
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	9.00	35000.00		10.00	4.00	74.00	70.34	68.69	84.00	29.33	.00	.00	.00	.00	112.07
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	12.00	35000.00		9.00	5.00	72.00	69.13	67.78	87.00	29.32	.00	.00	.00	.00	109.58
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	15.00	35000.00		9.00	3.00	72.00	69.80	68.80	90.00	29.35	3.00	.00	.00	49.36	111.25
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	18.00	35000.00		13.00	11.00	86.00	74.36	69.52	59.00	29.37	4.00	.00	.00	218.49	131.54
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.	21.00	35000.00		13.00	8.00	91.00	74.37	67.24	47.00	29.32	2.00	.00	.00	286.77	136.18
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	13.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	3.00	35000.00		13.00	5.00	90.00	74.66	68.21	50.00	29.28	1.00	.00	.00	44.81	134.02
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	6.00	35000.00		.00	.00	80.00	72.88	69.87	72.00	29.31	.00	.00	.00	.00	119.84
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	9.00	35000.00		.00	.00	74.00	71.05	69.75	87.00	29.31	.00	.00	.00	.00	112.07
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	12.00	7000.00		.00	.00	75.00	69.33	66.67	76.00	29.31	8.00	.00	.00	.00	125.67
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	15.00	35000.00		10.00	3.00	74.00	69.87	67.97	82.00	29.33	10.00	.00	.00	42.40	131.12
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
			(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(l)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)				
0.	1900.	7.	14.	18.00	35000.00	16.00	3.00	82.00	74.71	71.79	72.00	29.34	10.00	.00	.00	190.57	143.36	.80
0.	1900.	7.	14.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	21.00	10000.00	9.00	5.00	89.00	76.96	72.34	59.00	29.34	8.00	.00	.00	189.00	146.74	.82
0.	1900.	7.	14.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	14.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	35000.00	13.00	8.00	92.00	77.78	72.41	54.00	29.31	5.00	.00	.00	213.80	142.55	.82
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	3.00	35000.00	12.00	5.00	90.00	77.13	72.21	57.00	29.27	9.00	.00	.00	40.83	152.21	.81
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	6.00	35000.00	3.00	5.00	82.00	74.71	71.79	72.00	29.32	4.00	.00	.00	.00	125.86	.80
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	9.00	35000.00	5.00	4.00	80.00	72.88	69.87	72.00	29.33	.00	.00	.00	.00	119.84	.75
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	12.00	35000.00	.00	.00	74.00	71.05	69.75	87.00	29.32	2.00	.00	.00	.00	112.83	.74
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	15.00	35000.00	12.00	7.00	77.00	72.71	70.90	82.00	29.35	3.00	.00	.00	47.80	117.68	.77
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	18.00	35000.00	13.00	9.00	90.00	78.50	74.31	61.00	29.36	1.00	.00	.00	215.27	134.02	.87
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	21.00	4300.00	14.00	10.00	96.00	80.03	74.33	51.00	29.37	7.00	.00	.00	207.04	154.68	.88
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	15.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	35000.00	13.00	8.00	98.00	79.23	72.27	45.00	29.32	5.00	.00	.00	213.57	152.10	.82
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	3.00	35000.00	13.00	4.00	93.00	80.07	75.56	58.00	29.29	1.00	.00	.00	44.14	138.46	.91
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	6.00	35000.00	9.00	3.00	85.00	78.90	76.77	77.00	29.32	6.00	.00	.00	.00	134.41	.94
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	9.00	35000.00	5.00	9.00	80.00	70.93	66.79	65.00	29.38	3.00	.00	.00	.00	121.68	.68
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	12.00	35000.00	11.00	5.00	76.00	69.75	66.84	74.00	29.33	4.00	.00	.00	.00	117.73	.67
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	15.00	35000.00	9.00	3.00	74.00	69.14	66.85	79.00	29.38	4.00	.00	.00	46.90	115.12	.67
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	18.00	35000.00	11.00	7.00	87.00	76.52	72.47	63.00	29.38	.00	.00	.00	211.67	129.47	.82
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	21.00	35000.00	13.00	12.00	98.00	80.48	74.27	48.00	29.36	.00	.00	.00	279.36	145.90	.88
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	16.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	.00	35000.00	12.00	10.00	100.00	79.53	71.93	42.00	29.32	1.00	.00	.00	212.81	149.32	.81

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(.I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)		
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	3.00	35000.00		13.00	7.00	97.00	78.84	72.04	46.00	29.30	2.00	.00	.00	44.16	145.32	.82
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	6.00	35000.00		.00	.00	85.00	77.45	74.68	72.00	29.33	1.00	.00	.00	.00	126.87	.88
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	9.00	35000.00		12.00	6.00	84.00	75.08	71.51	67.00	29.34	.00	.00	.00	.00	125.27	.79
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	12.00	35000.00		12.00	5.00	80.00	72.88	69.87	72.00	29.32	.00	.00	.00	.00	119.84	.75
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	15.00	35000.00		12.00	7.00	79.00	72.51	69.73	74.00	29.36	.00	.00	.00	44.97	118.52	.74
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	18.00	35000.00		12.00	8.00	91.00	78.35	73.68	58.00	29.36	.00	.00	.00	211.11	135.26	.86
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	21.00	35000.00		12.00	10.00	98.00	78.39	70.86	43.00	29.33	.00	.00	.00	279.05	145.90	.79
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		13.00	10.00	100.00	78.18	69.65	39.00	29.28	.00	.00	.00	209.53	149.06	.76
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	3.00	35000.00		13.00	6.00	97.00	77.16	69.24	42.00	29.25	1.00	.00	.00	43.39	144.58	.74
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	6.00	35000.00		12.00	3.00	83.00	75.62	72.76	72.00	29.28	.00	.00	.00	.00	123.89	.82
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	9.00	35000.00		11.00	3.00	81.00	72.95	69.54	69.00	29.28	.00	.00	.00	.00	121.18	.74
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	12.00	35000.00		9.00	4.00	77.00	70.66	67.80	74.00	29.27	.00	.00	.00	.00	115.90	.70
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	15.00	35000.00		10.00	3.00	76.00	70.25	67.64	76.00	29.27	.00	.00	.00	44.15	114.61	.69
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	18.00	35000.00		13.00	8.00	91.00	76.22	70.32	52.00	29.29	.00	.00	.00	210.55	135.26	.77
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	21.00	35000.00		11.00	7.00	99.00	78.29	70.29	41.00	29.26	.00	.00	.00	278.73	147.47	.77
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		12.00	8.00	102.00	76.81	66.29	33.00	29.21	.00	.00	.00	209.26	152.29	.68
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	3.00	35000.00		11.00	4.00	99.00	78.28	70.30	41.00	29.18	.00	.00	.00	42.36	147.47	.77
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	6.00	35000.00		10.00	4.00	86.00	74.99	70.54	61.00	29.19	1.00	.00	.00	.00	128.27	.77
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.	
					(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)			
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	19.	9.00	35000.00		13.00	5.00	82.00	73.27	69.60	67.00	29.20	4.00	.00	.00	.00	125.86	.74
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	12.00	35000.00		1.00	7.00	80.00	73.42	70.70	74.00	29.21	9.00	.00	.00	.00	136.34	.77
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	15.00	35000.00		12.00	3.00	79.00	73.30	70.94	77.00	29.21	5.00	.00	.00	44.05	123.55	.77
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	18.00	35000.00		11.00	5.00	87.00	77.13	73.44	65.00	29.21	1.00	.00	.00	213.00	129.69	.85
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	21.00	35000.00		13.00	10.00	97.00	79.64	73.36	48.00	29.19	7.00	.00	.00	274.23	156.36	.85
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	35000.00	13.00	9.00	100.00	79.06	71.19	41.00	29.15	8.00	.00	.00	200.79	165.28	.80
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	3.00	10000.00		16.00	12.00	89.00	78.26	74.36	63.00	29.16	10.00	.00	.00	17.40	154.83	.87
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	6.00	10000.00		1.00	7.00	84.00	70.69	64.43	53.00	29.19	10.00	.00	.00	.00	146.56	.63
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	9.00	10000.00		16.00	4.00	78.00	70.78	67.52	71.00	29.21	10.00	.00	.00	.00	137.13	.69
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	12.00	7500.00		12.00	5.00	74.00	70.34	68.69	84.00	29.24	10.00	.00	.00	.00	131.12	.72
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	15.00	35000.00		15.00	5.00	73.00	70.09	68.77	87.00	29.25	5.00	.00	.00	43.18	115.53	.72
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	18.00	35000.00		3.00	7.00	82.00	71.50	66.77	61.00	29.27	3.00	.00	.00	214.98	124.40	.68
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.	21.00	10000.00		1.00	6.00	87.00	71.48	64.23	48.00	29.26	7.00	.00	.00	216.41	140.26	.62
0.	1900.	7.	20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	20.		.00	10000.00	2.00	10.00	89.00	70.88	62.06	42.00	29.24	7.00	.00	.00	162.41	143.36	.58
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.	3.00	9000.00		1.00	10.00	81.00	68.51	62.21	54.00	29.26	10.00	.00	.00	13.69	141.78	.58
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.	6.00	10000.00		1.00	9.00	74.00	67.91	64.91	74.00	29.29	10.00	.00	.00	.00	131.12	.63
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.	9.00	6500.00		2.00	5.00	72.00	65.34	61.76	71.00	29.29	10.00	.00	.00	.00	128.20	.57
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.	12.00	10000.00		16.00	4.00	70.00	65.85	63.69	81.00	29.29	10.00	.00	.00	.00	125.34	.60
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
			(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov(.1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)					
0.	1900.	7.	21.	15.00	7500.00	2.00	6.00	71.00	67.48	65.75	84.00	29.31	8.00	.00	.00	25.94	120.13	.65	
0.	1900.	7.	21.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	21.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	21.	18.00	35000.00	2.00	8.00	80.00	68.89	63.39	58.00	29.34	2.00	.00	.00	213.65	120.66	.60	
0.	1900.	7.	21.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	21.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	21.	21.00	35000.00	2.00	10.00	85.00	69.18	61.15	46.00	29.35	4.00	.00	.00	284.51	130.10	.56	
0.	1900.	7.	21.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	21.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	35000.00	3.00	9.00	87.00	69.69	60.96	43.00	29.31	4.00	.00	.00	213.47	132.99	.56	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	3.00	35000.00	2.00	6.00	84.00	69.05	61.49	48.00	29.32	2.00	.00	.00	41.96	126.12	.57	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	6.00	35000.00	3.00	5.00	74.00	65.35	60.64	64.00	29.35	.00	.00	.00	.00	112.07	.55	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	9.00	35000.00	3.00	5.00	70.00	64.71	61.82	76.00	29.36	.00	.00	.00	.00	107.13	.57	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	12.00	35000.00	3.00	3.00	65.00	62.40	60.88	87.00	29.37	.00	.00	.00	.00	101.21	.54	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	15.00	35000.00	2.00	5.00	66.00	62.73	60.84	84.00	29.38	.00	.00	.00	40.72	102.37	.54	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	18.00	35000.00	4.00	5.00	78.00	69.71	65.79	67.00	29.39	.00	.00	.00	208.17	117.20	.65	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	21.00	3000.00	7.00	10.00	86.00	71.72	65.12	51.00	29.38	6.00	.00	.00	232.17	135.89	.64	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	22.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	5500.00	8.00	9.00	87.00	70.78	62.96	46.00	29.34	7.00	.00	.00	153.99	140.26	.60	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	3.00	35000.00	8.00	6.00	85.00	69.87	62.40	48.00	29.33	5.00	.00	.00	41.19	132.04	.59	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	6.00	35000.00	7.00	5.00	76.00	67.65	63.44	66.00	29.33	2.00	.00	.00	.00	115.39	.60	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	9.00	35000.00	7.00	5.00	72.00	64.60	60.50	68.00	29.33	.00	.00	.00	.00	109.58	.54	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	12.00	35000.00	8.00	9.00	73.00	63.16	57.34	59.00	29.33	4.00	.00	.00	.00	113.83	.49	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	15.00	35000.00	9.00	4.00	69.00	62.62	58.88	71.00	29.35	6.00	.00	.00	39.98	112.40	.51	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	18.00	35000.00	8.00	9.00	82.00	69.67	63.68	55.00	29.36	2.00	.00	.00	212.38	123.36	.61	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	23.	21.00	35000.00	9.00	11.00	90.00	71.29	62.24	41.00	29.34	7.00	.00	.00	272.79	144.93	.59	

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)		
0.	1900.	7.	23.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	35000.00	9.00	13.00	90.00	71.67	62.96	42.00	29.29	9.00	.00	.00	193.34	152.21	.60
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		3.00	35000.00	9.00	12.00	87.00	72.18	65.45	50.00	29.26	2.00	.00	.00	40.91	130.35	.65
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		6.00	35000.00	9.00	13.00	82.00	71.50	66.77	61.00	29.27	.00	.00	.00	.00	122.53	.68
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		9.00	35000.00	9.00	10.00	79.00	71.15	67.63	69.00	29.27	.00	.00	.00	.00	118.52	.69
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		12.00	35000.00	9.00	8.00	76.00	68.44	64.75	69.00	29.25	1.00	.00	.00	.00	114.81	.63
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		15.00	35000.00	9.00	6.00	74.00	68.40	65.70	76.00	29.28	.00	.00	.00	38.92	112.07	.65
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		18.00	35000.00	10.00	8.00	87.00	76.51	72.47	63.00	29.28	.00	.00	.00	206.90	129.47	.82
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		21.00	35000.00	9.00	9.00	96.00	80.79	75.53	53.00	29.28	3.00	.00	.00	283.92	144.97	.91
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	35000.00	10.00	14.00	102.00	80.19	72.21	40.00	29.26	5.00	.00	.00	210.78	158.76	.82
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		3.00	35000.00	9.00	10.00	95.00	79.18	73.41	51.00	29.26	8.00	.00	.00	37.89	156.62	.85
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		6.00	35000.00	8.00	11.00	89.00	78.28	74.36	63.00	29.32	7.00	.00	.00	.00	143.36	.87
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		9.00	35000.00	9.00	7.00	82.00	76.10	73.86	77.00	29.32	3.00	.00	.00	.00	124.40	.85
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		12.00	25000.00	9.00	6.00	81.00	75.70	73.67	79.00	29.35	9.00	.00	.00	.00	137.87	.85
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		15.00	12000.00	9.00	5.00	79.00	74.60	72.86	82.00	29.36	10.00	.00	.00	15.77	138.66	.82
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		18.00	35000.00	8.00	5.00	86.00	77.78	74.77	70.00	29.37	10.00	.00	.00	184.77	149.83	.88
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		21.00	35000.00	10.00	8.00	95.00	80.33	75.19	54.00	29.38	10.00	.00	.00	247.36	165.27	.90
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	35000.00	11.00	9.00	98.00	78.39	70.86	43.00	29.36	7.00	.00	.00	203.79	158.05	.79
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		3.00	5000.00	15.00	5.00	75.00	72.72	71.77	90.00	29.40	10.00	.00	.00	12.83	132.60	.79
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
			(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)				
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	6.00	11000.00	11.00	3.00	75.00	72.72	71.77	90.00	29.43	10.00	.00	.00	.00	132.60	.79
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	9.00	9000.00	8.00	4.00	74.00	71.75	70.78	90.00	29.43	9.00	.00	.00	.00	127.50	.77
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	12.00	11000.00	14.00	6.00	74.00	71.75	70.78	90.00	29.43	10.00	.00	.00	.00	131.12	.77
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	15.00	11000.00	1.00	5.00	75.00	72.02	70.74	87.00	29.43	9.00	.00	.00	20.54	128.94	.77
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	18.00	8000.00	11.00	4.00	79.00	75.37	73.97	85.00	29.45	10.00	.00	.00	67.86	138.66	.85
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	21.00	2500.00	9.00	4.00	86.00	77.18	73.87	68.00	29.42	10.00	.00	.00	90.99	149.83	.86
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	3400.00	14.00	8.00	82.00	77.45	75.80	29.38	10.00	.00	.00	68.14	143.36	.91
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	3.00	8000.00	4.00	4.00	81.00	76.50	74.82	82.00	29.35	9.00	.00	.00	18.62	137.87	.88
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	6.00	35000.00	8.00	4.00	77.00	74.90	74.09	91.00	29.37	4.00	.00	.00	.00	119.05	.86
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	9.00	35000.00	10.00	5.00	76.00	73.69	72.76	90.00	29.34	.00	.00	.00	.00	114.61	.82
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	12.00	35000.00	10.00	4.00	75.00	73.64	73.09	94.00	29.31	.00	.00	.00	.00	113.34	.83
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	15.00	35000.00	9.00	3.00	74.00	72.66	72.10	94.00	29.33	1.00	.00	.00	36.66	112.26	.80
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	18.00	35000.00	12.00	7.00	85.00	77.45	74.68	72.00	29.32	.00	.00	.00	204.93	126.66	.88
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.	21.00	3600.00	11.00	10.00	91.00	77.65	72.60	56.00	29.31	7.00	.00	.00	203.77	146.52	.83
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	27.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.		.00	35000.00	13.00	11.00	94.00	73.13	63.53	29.25	3.00	.00	.00	211.53	141.87	.61
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.	3.00	35000.00	14.00	9.00	89.00	73.83	67.29	50.00	29.24	4.00	.00	.00	38.57	135.94	.69
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.	6.00	35000.00	16.00	7.00	78.00	66.00	59.43	54.00	29.29	.00	.00	.00	.00	117.20	.53
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.	9.00	35000.00	14.00	4.00	69.00	63.78	60.86	76.00	29.32	.00	.00	.00	.00	105.92	.55
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	28.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
					(feet)	Temp(F)	Temp(F)	(%) (in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)						
0.	1900.	7.	28.	12.00	35000.00	14.00	4.00	66.00	62.09	59.79	81.00	29.33	.00	.00	.00	.00	102.37	.52	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	15.00	35000.00	16.00	7.00	66.00	62.09	59.79	81.00	29.37	.00	.00	.00	35.19	102.37	.52	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	18.00	35000.00	1.00	7.00	77.00	67.45	62.54	62.00	29.41	.00	.00	.00	204.24	115.90	.58	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	21.00	35000.00	1.00	8.00	84.00	67.70	58.93	44.00	29.42	1.00	.00	.00	278.77	125.48	.52	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	28.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	35000.00	16.00	8.00	87.00	68.60	58.83	40.00	29.40	1.00	.00	.00	208.53	129.69	.52	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	3.00	35000.00	1.00	5.00	85.00	68.84	60.50	45.00	29.40	2.00	.00	.00	37.86	127.52	.55	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	6.00	35000.00	.00	.00	74.00	67.92	64.91	74.00	29.43	1.00	.00	.00	.00	112.26	.63	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	9.00	35000.00	.00	.00	69.00	65.58	63.78	84.00	29.46	.00	.00	.00	.00	105.92	.60	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	12.00	35000.00	4.00	3.00	66.00	63.98	62.86	90.00	29.45	.00	.00	.00	.00	102.37	.58	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	15.00	35000.00	5.00	4.00	67.00	63.68	61.82	84.00	29.50	1.00	.00	.00	34.73	103.72	.56	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	18.00	35000.00	9.00	6.00	80.00	69.49	64.39	60.00	29.52	.00	.00	.00	203.55	119.84	.62	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	21.00	35000.00	8.00	5.00	87.00	70.81	62.96	46.00	29.50	3.00	.00	.00	281.67	131.45	.60	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	35000.00	9.00	8.00	88.00	70.50	61.86	43.00	29.45	4.00	.00	.00	210.13	134.46	.58	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	3.00	35000.00	9.00	6.00	85.00	70.90	64.21	51.00	29.43	1.00	.00	.00	36.85	126.87	.62	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	6.00	35000.00	9.00	5.00	77.00	69.36	65.71	69.00	29.45	.00	.00	.00	.00	115.90	.65	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	9.00	35000.00	9.00	4.00	72.00	65.84	62.58	73.00	29.42	2.00	.00	.00	.00	110.32	.58	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	12.00	35000.00	9.00	8.00	72.00	65.83	62.58	73.00	29.39	2.00	.00	.00	.00	110.32	.58	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	15.00	35000.00	9.00	6.00	70.00	65.86	63.69	81.00	29.39	1.00	.00	.00	33.75	107.31	.60	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	18.00	35000.00	9.00	8.00	82.00	71.52	66.77	61.00	29.40	2.00	.00	.00	207.58	123.36	.68	

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
			(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)				
0.	1900.	7.	30.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	30.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	30.	21.00	25000.00	10.00	10.00	91.00	75.13	68.51	49.00	29.39	7.00	.00	.00	269.77	146.52	.72	.00
0.	1900.	7.	30.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	30.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	35000.00	9.00	11.00	94.00	77.59	71.25	49.00	29.34	5.00	.00	.00	208.06	145.67	.79
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	3.00	25000.00	9.00	7.00	89.00	76.95	72.34	59.00	29.29	7.00	.00	.00	35.10	143.36	.82	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	6.00	10000.00	15.00	13.00	78.00	73.65	71.88	82.00	29.36	10.00	.00	.00	.00	137.13	.80	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	9.00	5500.00	12.00	7.00	75.00	71.53	70.03	85.00	29.33	10.00	.00	.00	.00	132.60	.75	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	12.00	4000.00	12.00	11.00	75.00	72.01	70.74	87.00	29.36	10.00	.00	.00	.00	132.60	.77	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	15.00	9500.00	13.00	3.00	74.00	71.75	70.78	90.00	29.35	9.00	.00	.00	15.72	127.50	.77	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	18.00	9000.00	11.00	5.00	85.00	76.87	73.81	70.00	29.37	8.00	.00	.00	126.03	140.44	.85	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.	21.00	8000.00	9.00	7.00	87.00	77.15	73.43	65.00	29.39	10.00	.00	.00	90.23	151.48	.85	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	35000.00	9.00	8.00	89.00	79.25	75.81	66.00	29.36	.00	.00	.00	204.08	132.34	.91
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	3.00	35000.00	10.00	7.00	88.00	78.98	75.79	68.00	29.33	7.00	.00	.00	34.39	141.80	.91	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	6.00	35000.00	9.00	5.00	81.00	77.28	75.93	85.00	29.36	4.00	.00	.00	.00	124.48	.91	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	9.00	35000.00	3.00	5.00	77.00	74.90	74.09	91.00	29.38	6.00	.00	.00	.00	123.00	.86	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	12.00	300.00	4.00	7.00	75.00	74.33	74.06	97.00	29.39	10.00	.00	.00	.00	132.60	.85	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	15.00	300.00	5.00	5.00	74.00	73.33	73.06	97.00	29.41	10.00	.00	.00	10.33	131.12	.83	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	18.00	35000.00	3.00	6.00	80.00	75.55	73.84	82.00	29.43	5.00	.00	.00	204.82	124.94	.85	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.	21.00	35000.00	15.00	5.00	87.00	79.29	76.61	72.00	29.42	7.00	.00	.00	268.79	140.26	.94	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00	3500.00	3.00	7.00	90.00	80.14	76.76	66.00	29.38	7.00	.00	150.68	144.93	.94	.00
0.	1900.	8.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(.1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)	
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		3.00	35000.00	1.00	8.00	85.00	78.33	75.95	75.00	29.38	.00	.00	.00	34.17	126.66
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		6.00	35000.00	3.00	6.00	79.00	74.60	72.86	82.00	29.40	.00	.00	.00	.00	118.52
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		9.00	35000.00	15.00	4.00	73.00	71.45	70.78	93.00	29.41	.00	.00	.00	.00	110.82
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		12.00	2300.00	.00	.00	72.00	69.81	68.80	90.00	29.39	10.00	.00	.00	.00	128.20
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		15.00	35000.00	15.00	4.00	70.00	68.51	67.79	93.00	29.41	1.00	.00	.00	30.76	107.31
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		18.00	35000.00	1.00	5.00	80.00	75.55	73.84	82.00	29.42	3.00	.00	.00	206.04	121.68
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		21.00	3500.00	16.00	5.00	87.00	74.57	69.41	57.00	29.40	8.00	.00	.00	169.80	143.56
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	2.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00	35000.00	16.00	8.00	89.00	74.55	68.47	52.00	29.34	5.00	.00	.00	206.41	137.96
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		3.00	35000.00	2.00	5.00	87.00	73.90	68.33	55.00	29.35	2.00	.00	.00	34.19	130.35
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		6.00	35000.00	14.00	4.00	76.00	71.76	69.93	82.00	29.36	3.00	.00	.00	.00	116.37
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		9.00	35000.00	16.00	5.00	74.00	70.34	68.69	84.00	29.35	.00	.00	.00	.00	112.07
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		12.00	35000.00	.00	.00	70.00	68.51	67.79	93.00	29.34	.00	.00	.00	.00	107.13
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		15.00	4400.00	1.00	4.00	72.00	69.80	68.80	90.00	29.36	9.00	.00	.00	14.28	124.66
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		18.00	35000.00	1.00	5.00	83.00	75.06	71.90	70.00	29.36	.00	.00	.00	199.94	123.89
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		21.00	35000.00	3.00	7.00	89.00	75.25	69.62	54.00	29.35	5.00	.00	.00	276.42	137.96
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	3.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	4.		.00	35000.00	3.00	7.00	92.00	75.18	68.16	47.00	29.31	5.00	.00	.00	205.82	142.55
0.	1900.	8.	4.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	4.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	4.		3.00	35000.00	2.00	5.00	90.00	73.93	66.97	48.00	29.28	.00	.00	.00	32.62	133.79
0.	1900.	8.	4.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	4.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	4.		6.00	35000.00	2.00	3.00	81.00	72.38	68.65	67.00	29.29	.00	.00	.00	.00	121.18
0.	1900.	8.	4.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	8.	4.		.00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

5-1-30days9am.txt

Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
			(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	(%) (in Hg)	Cov(.1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)						
0.	1900.	8.	4.	9.00	35000.00	.00	.00	72.00	69.80	68.80	90.00	29.29	.00	.00	.00	.00	109.58	.72	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	12.00	35000.00	.00	.00	70.00	67.86	66.82	90.00	29.28	.00	.00	.00	.00	107.13	.67	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	15.00	35000.00	.00	.00	69.00	66.89	65.83	90.00	29.29	.00	.00	.00	28.34	105.92	.65	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	18.00	35000.00	12.00	6.00	85.00	75.36	71.53	65.00	29.29	2.00	.00	.00	203.83	127.52	.79	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	21.00	35000.00	16.00	9.00	93.00	74.42	66.36	43.00	29.27	3.00	.00	.00	278.52	140.34	.67	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	35000.00	.00	.00	96.00	75.09	66.09	39.00	29.24	.00	.00	.00	201.79	142.79	.67	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	3.00	35000.00	12.00	3.00	93.00	74.81	67.06	44.00	29.22	.00	.00	.00	31.80	138.23	.69	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	6.00	35000.00	13.00	4.00	81.00	72.95	69.54	69.00	29.25	.00	.00	.00	.00	121.18	.74	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	9.00	35000.00	16.00	9.00	79.00	71.97	68.91	72.00	29.27	.00	.00	.00	.00	118.52	.72	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	12.00	35000.00	4.00	10.00	77.00	69.34	65.71	69.00	29.30	.00	.00	.00	.00	115.90	.65	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	15.00	35000.00	5.00	10.00	76.00	66.02	60.64	60.00	29.33	.00	.00	.00	27.34	114.61	.55	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	18.00	35000.00	4.00	11.00	82.00	66.11	57.13	44.00	29.37	2.00	.00	.00	203.05	123.36	.49	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	21.00	35000.00	4.00	10.00	88.00	68.60	58.22	38.00	29.38	2.00	.00	.00	277.02	131.79	.51	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	

30dayevap.txt																					
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.		
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(.1)
93822.	1954.	6.	18.	0.00	35000.00	4.00	3.00	90.00	75.05	68.81	51.00	29.45	8.00	0.00	0.00	287.97	148.35		0.73		
93822.	1954.	6.	18.	1.00	35000.00	10.00	5.00	93.00	75.24	67.74	45.00	29.43	8.00	0.00	0.00	250.81	153.27		0.71		
93822.	1954.	6.	18.	2.00	35000.00	7.00	3.00	94.00	76.43	69.32	46.00	29.41	6.00	0.00	0.00	215.79	148.29		0.74		
93822.	1954.	6.	18.	3.00	35000.00	6.00	6.00	96.00	74.68	65.30	38.00	29.41	6.00	0.00	0.00	224.39	151.53		0.65		
93822.	1954.	6.	18.	4.00	35000.00	6.00	9.00	95.00	74.77	65.96	40.00	29.40	5.00	0.00	0.00	108.09	147.26		0.67		
93822.	1954.	6.	18.	5.00	35000.00	7.00	8.00	93.00	74.84	67.06	44.00	29.40	3.00	0.00	0.00	51.23	140.34		0.69		
93822.	1954.	6.	18.	6.00	35000.00	8.00	10.00	90.00	74.68	68.20	50.00	29.40	3.00	0.00	0.00	49.84	135.84		0.71		
93822.	1954.	6.	18.	7.00	35000.00	8.00	9.00	88.00	74.76	69.25	55.00	29.40	5.00	0.00	0.00	0.00	136.46		0.74		
93822.	1954.	6.	18.	8.00	35000.00	7.00	7.00	85.00	73.82	69.09	60.00	29.42	7.00	0.00	0.00	0.00	137.21		0.73		
93822.	1954.	6.	18.	9.00	35000.00	8.00	7.00	83.00	73.00	68.69	63.00	29.43	3.00	0.00	0.00	0.00	125.79		0.72		
93822.	1954.	6.	18.	10.00	35000.00	8.00	6.00	82.00	72.41	68.21	64.00	29.43	4.00	0.00	0.00	0.00	125.86		0.71		
93822.	1954.	6.	18.	11.00	35000.00	7.00	7.00	80.00	72.06	68.58	69.00	29.44	1.00	0.00	0.00	0.00	120.05		0.72		
93822.	1954.	6.	18.	12.00	35000.00	9.00	6.00	79.00	71.71	68.48	71.00	29.44	0.00	0.00	0.00	0.00	118.52		0.71		
93822.	1954.	6.	18.	13.00	35000.00	9.00	8.00	77.00	70.67	67.80	74.00	29.43	0.00	0.00	0.00	0.00	115.90		0.70		
93822.	1954.	6.	18.	14.00	35000.00	9.00	9.00	76.00	70.77	68.42	78.00	29.43	0.00	0.00	0.00	0.00	114.61		0.71		
93822.	1954.	6.	18.	15.00	35000.00	9.00	6.00	75.00	70.57	68.58	81.00	29.43	0.00	0.00	0.00	0.00	113.34		0.71		
93822.	1954.	6.	18.	16.00	35000.00	9.00	5.00	74.00	70.35	68.69	84.00	29.44	0.00	0.00	0.00	0.00	112.07		0.72		
93822.	1954.	6.	18.	17.00	35000.00	9.00	6.00	76.00	72.01	70.30	83.00	29.44	1.00	0.00	0.00	57.46	114.81		0.76		
93822.	1954.	6.	18.	18.00	35000.00	10.00	7.00	78.00	73.40	71.51	81.00	29.46	0.00	0.00	0.00	66.15	117.20		0.79		
93822.	1954.	6.	18.	19.00	35000.00	11.00	6.00	81.00	75.44	73.28	78.00	29.45	2.00	0.00	0.00	179.47	122.00		0.84		
93822.	1954.	6.	18.	20.00	35000.00	11.00	4.00	85.00	76.28	72.92	68.00	29.45	2.00	0.00	0.00	231.49	127.52		0.83		
93822.	1954.	6.	18.	21.00	35000.00	11.00	6.00	88.00	76.10	71.40	59.00	29.44	2.00	0.00	0.00	245.48	131.79		0.79		
93822.	1954.	6.	18.	22.00	35000.00	12.00	5.00	90.00	75.40	69.40	52.00	29.43	4.00	0.00	0.00	290.35	137.43		0.74		
93822.	1954.	6.	18.	23.00	35000.00	12.00	5.00	92.00	75.96	69.43	49.00	29.42	5.00	0.00	0.00	294.53	142.55		0.75		
93822.	1954.	6.	19.	0.00	35000.00	10.00	3.00	92.00	75.58	68.79	48.00	29.40	4.00	0.00	0.00	310.68	140.45		0.73		
93822.	1954.	6.	19.	1.00	35000.00	9.00	9.00	95.00	73.92	64.42	38.00	29.37	4.00	0.00	0.00	260.71	145.10		0.63		
93822.	1954.	6.	19.	2.00	35000.00	8.00	7.00	95.00	75.60	67.44	42.00	29.35	4.00	0.00	0.00	220.09	145.10		0.70		
93822.	1954.	6.	19.	3.00	35000.00	10.00	7.00	95.00	74.76	65.97	40.00	29.34	5.00	0.00	0.00	228.26	147.26		0.67		
93822.	1954.	6.	19.	4.00	35000.00	10.00	8.00	95.00	75.59	67.45	42.00	29.33	3.00	0.00	0.00	110.65	143.42		0.70		
93822.	1954.	6.	19.	5.00	35000.00	10.00	8.00	94.00	74.40	65.82	41.00	29.32	0.00	0.00	0.00	52.90	139.74		0.66		
93822.	1954.	6.	19.	6.00	35000.00	9.00	7.00	92.00	74.42	66.83	45.00	29.33	1.00	1000.00	0.00	50.27	136.97		0.68		
93822.	1954.	6.	19.	7.00	35000.00	9.00	7.00	90.00	74.30	67.59	49.00	29.33	1.00	0.00	0.00	0.00	134.02		0.70		
93822.	1954.	6.	19.	8.00	35000.00	9.00	7.00	87.00	73.90	68.33	55.00	29.34	0.00	0.00	0.00	0.00	129.47		0.72		
93822.	1954.	6.	19.	9.00	35000.00	8.00	6.00	86.00	72.72	66.84	54.00	29.35	0.00	0.00	0.00	0.00	128.06		0.68		
93822.	1954.	6.	19.	10.00	35000.00	9.00	8.00	84.00	72.32	67.13	58.00	29.36	0.00	0.00	0.00	0.00	125.27		0.69		
93822.	1954.	6.	19.	11.00	35000.00	10.00	9.00	80.00	71.49	67.69	67.00	29.36	0.00	0.00	0.00	0.00	119.84		0.70		
93822.	1954.	6.	19.	12.00	35000.00	10.00	8.00	80.00	71.78	68.14	68.00	29.35	0.00	0.00	0.00	0.00	119.84		0.71		
93822.	1954.	6.	19.	13.00	35000.00	10.00	10.00	79.00	72.24	69.32	73.00	29.34	0.00	0.00	0.00	0.00	118.52		0.73		
93822.	1954.	6.	19.	14.00	35000.00	10.00	5.00	76.00	71.02	68.80	79.00	29.34	0.00	0.00	0.00	0.00	114.61		0.72		
93822.	1954.	6.	19.	15.00	35000.00	11.00	8.00	75.00	70.81	68.95	82.00	29.36	0.00	0.00	0.00	0.00	113.34		0.72		
93822.	1954.	6.	19.	16.00	35000.00	10.00	7.00	75.00	71.06	69.31	83.00	29.37	0.00	0.00	0.00	0.00	113.34		0.73		
93822.	1954.	6.	19.	17.00	35000.00	9.00	7.00	76.00	71.27	69.18	80.00	29.37	0.00	0.00	0.00	57.87	114.61		0.73		
93822.	1954.	6.	19.	18.00	35000.00	9.00	11.00	78.00	71.59	68.77	74.00	29.37	0.00	0.00	0.00	66.07	117.20		0.72		
93822.	1954.	6.	19.	19.00	35000.00	10.00	10.00	83.00	74.47	71.01	68.00	29.36	0.00	0.00	0.00	182.18	123.89		0.78		
93822.	1954.	6.	19.	20.00	35000.00	10.00	12.00	87.00	74.57	69.41	57.00	29.37	0.00	0.00	0.00	235.08	129.47		0.74		
93822.	1954.	6.	19.	21.00	35000.00	12.00	14.00	90.00	75.39	69.40	52.00	29.34	0.00	0.00	0.00	244.56	133.79		0.74		
93822.	1954.	6.	19.	22.00	35000.00	12.00	10.00	92.00	75.19	68.15	47.00	29.35	3.00	0.00	0.00	292.12	138.83		0.71		
93822.	1954.	6.	19.	23.00	35000.00	11.00	8.00	94.00	75.22	67.26	43.00	29.33	5.00	0.00	0.00	293.32	145.67		0.70		
93822.	1954.	6.	20.	0.00	5500.00	11.00	8.00	92.00	75.19	68.15	47.00	29.32	6.00	0.00	0.00	253.02	145.10		0.71		
93822.	1954.	6.	20.	1.00	35000.00	10.00	9.00	96.00	75.95	67.61	41.00	29.29	4.00	0.00	0.00	260.29	146.67		0.70		
93822.	1954.	6.	20.	2.00	6500.00	10.00	11.00	96.00	74.65	65.30	38.00	29.25	6.00	1000.00	0.00	215.21	151.53		0.65		
93822.	1954.	6.	20.	3.00	6500.00	10.00	12.00	93.00	74.01	65.66	42.00	29.24	8.00	1000.00	0.00	146.60	153.27		0.66		
93822.	1954.	6.	20.	4.00	6500.00	1.00	10.00	87.00	75.22	70.46	59.00	29.25	7.00	0.00	0.00	108.82	140.26		0.77		
93822.	1954.	6.	20.	5.00	6000.00	3.00	14.00	79.00	72.77	70.14	75.00	29.28	10.00	1023.00	0.00	47.46	138.66		0.75		

30dayevap.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.	
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F) (%)	(in Hg) Cov(.1)
93822.	1954.	6.	20.	6.00	6000.00	5.00	11.00	75.00	72.72	71.77	90.00	29.29	10.00	1023.00	0.00	19.73	132.60	0.79	
93822.	1954.	6.	20.	7.00	25000.00	6.00	6.00	77.00	73.20	71.64	84.00	29.28	8.00	0.00	0.00	0.00	128.51	0.79	
93822.	1954.	6.	20.	8.00	25000.00	7.00	4.00	77.00	73.45	72.00	85.00	29.28	7.00	0.00	0.00	0.00	125.56	0.80	
93822.	1954.	6.	20.	9.00	35000.00	11.00	3.00	76.00	72.49	71.01	85.00	29.27	2.00	0.00	0.00	0.00	115.39	0.77	
93822.	1954.	6.	20.	10.00	35000.00	12.00	5.00	74.00	71.74	70.78	90.00	29.27	1.00	0.00	0.00	0.00	112.26	0.77	
93822.	1954.	6.	20.	11.00	35000.00	10.00	10.00	74.00	71.98	71.11	91.00	29.24	0.00	0.00	0.00	0.00	112.07	0.78	
93822.	1954.	6.	20.	12.00	35000.00	9.00	9.00	75.00	71.29	69.67	84.00	29.25	0.00	0.00	0.00	0.00	113.34	0.74	
93822.	1954.	6.	20.	13.00	35000.00	9.00	11.00	74.00	69.86	67.97	82.00	29.27	0.00	0.00	0.00	0.00	112.07	0.70	
93822.	1954.	6.	20.	14.00	35000.00	9.00	8.00	75.00	71.05	69.32	83.00	29.29	0.00	0.00	0.00	0.00	113.34	0.73	
93822.	1954.	6.	20.	15.00	35000.00	9.00	12.00	76.00	71.51	69.55	81.00	29.26	0.00	0.00	0.00	0.00	114.61	0.74	
93822.	1954.	6.	20.	16.00	35000.00	10.00	11.00	76.00	72.00	70.30	83.00	29.28	2.00	0.00	0.00	0.00	115.39	0.76	
93822.	1954.	6.	20.	17.00	35000.00	11.00	12.00	75.00	70.81	68.95	82.00	29.29	9.00	0.00	0.00	52.63	128.94	0.72	
93822.	1954.	6.	20.	18.00	35000.00	10.00	13.00	77.00	71.18	68.61	76.00	29.29	7.00	0.00	0.00	62.17	125.56	0.72	
93822.	1954.	6.	20.	19.00	35000.00	10.00	13.00	82.00	73.85	70.50	69.00	29.27	7.00	0.00	0.00	169.66	132.74	0.76	
93822.	1954.	6.	20.	20.00	35000.00	11.00	13.00	85.00	74.12	69.60	61.00	29.28	2.00	0.00	0.00	231.28	127.52	0.74	
93822.	1954.	6.	20.	21.00	35000.00	11.00	12.00	88.00	75.08	69.81	56.00	29.26	3.00	0.00	0.00	244.25	132.90	0.75	
93822.	1954.	6.	20.	22.00	35000.00	11.00	18.00	90.00	73.93	66.97	48.00	29.27	1.00	0.00	0.00	299.45	134.02	0.69	
93822.	1954.	6.	20.	23.00	35000.00	11.00	15.00	91.00	74.36	67.24	47.00	29.25	5.00	0.00	0.00	295.32	141.00	0.69	
93822.	1954.	6.	21.	0.00	35000.00	12.00	17.00	91.00	73.60	65.93	45.00	29.24	5.00	0.00	0.00	306.83	141.00	0.66	
93822.	1954.	6.	21.	1.00	5500.00	11.00	14.00	92.00	74.40	66.83	45.00	29.23	8.00	0.00	0.00	251.95	151.61	0.68	
93822.	1954.	6.	21.	2.00	5000.00	12.00	14.00	90.00	73.55	66.33	47.00	29.22	9.00	0.00	0.00	211.58	152.21	0.67	
93822.	1954.	6.	21.	3.00	5000.00	12.00	15.00	93.00	72.77	63.43	39.00	29.19	7.00	0.00	0.00	169.19	149.74	0.61	
93822.	1954.	6.	21.	4.00	35000.00	11.00	17.00	93.00	72.77	63.43	39.00	29.17	1.00	0.00	0.00	114.14	138.46	0.61	
93822.	1954.	6.	21.	5.00	35000.00	11.00	19.00	92.00	71.99	62.54	39.00	29.12	0.00	0.00	0.00	53.77	136.74	0.59	
93822.	1954.	6.	21.	6.00	35000.00	11.00	21.00	90.00	71.25	62.24	41.00	29.14	0.00	0.00	0.00	50.45	133.79	0.59	
93822.	1954.	6.	21.	7.00	35000.00	11.00	11.00	86.00	70.66	63.32	48.00	29.20	3.00	0.00	0.00	0.00	130.02	0.60	
93822.	1954.	6.	21.	8.00	35000.00	11.00	9.00	82.00	70.59	65.26	58.00	29.22	4.00	0.00	0.00	0.00	125.86	0.64	
93822.	1954.	6.	21.	9.00	35000.00	11.00	16.00	84.00	71.02	64.99	54.00	29.19	4.00	0.00	0.00	0.00	128.68	0.64	
93822.	1954.	6.	21.	10.00	35000.00	11.00	13.00	82.00	71.80	67.26	62.00	29.20	5.00	0.00	0.00	0.00	127.74	0.69	
93822.	1954.	6.	21.	11.00	11000.00	10.00	13.00	81.00	71.51	67.27	64.00	29.19	8.00	0.00	0.00	0.00	134.36	0.69	
93822.	1954.	6.	21.	12.00	7000.00	11.00	16.00	81.00	70.62	65.83	61.00	29.18	10.00	2300.00	0.00	0.00	141.78	0.65	
93822.	1954.	6.	21.	13.00	5500.00	16.00	4.00	78.00	71.58	68.77	74.00	29.25	10.00	2300.00	0.00	0.00	137.13	0.72	
93822.	1954.	6.	21.	14.00	7000.00	11.00	6.00	76.00	71.75	69.93	82.00	29.22	10.00	2300.00	0.00	0.00	134.10	0.75	
93822.	1954.	6.	21.	15.00	35000.00	11.00	7.00	75.00	70.81	68.95	82.00	29.20	5.00	0.00	0.00	0.00	118.15	0.72	
93822.	1954.	6.	21.	16.00	7000.00	14.00	9.00	73.00	70.54	69.45	89.00	29.22	7.00	0.00	0.00	0.00	120.05	0.73	
93822.	1954.	6.	21.	17.00	7000.00	15.00	8.00	73.00	71.00	70.12	91.00	29.24	9.00	0.00	0.00	52.71	126.08	0.75	
93822.	1954.	6.	21.	18.00	1100.00	16.00	11.00	73.00	70.54	69.45	89.00	29.26	10.00	0.00	0.00	19.67	129.66	0.73	
93822.	1954.	6.	21.	19.00	4000.00	16.00	13.00	74.00	70.10	68.33	83.00	29.28	10.00	0.00	0.00	157.52	131.12	0.71	
93822.	1954.	6.	21.	20.00	35000.00	1.00	9.00	76.00	69.23	66.02	72.00	29.29	3.00	0.00	0.00	232.96	116.37	0.66	
93822.	1954.	6.	21.	21.00	35000.00	1.00	5.00	78.00	68.87	64.43	64.00	29.30	3.00	0.00	0.00	227.19	119.00	0.62	
93822.	1954.	6.	21.	22.00	35000.00	16.00	10.00	81.00	68.82	62.75	55.00	29.30	0.00	0.00	0.00	307.94	121.18	0.59	
93822.	1954.	6.	21.	23.00	35000.00	1.00	12.00	81.00	66.29	58.14	47.00	29.30	0.00	0.00	0.00	317.17	121.18	0.50	
93822.	1954.	6.	22.	0.00	35000.00	1.00	10.00	84.00	65.92	55.43	39.00	29.31	0.00	0.00	0.00	283.88	125.27	0.46	
93822.	1954.	6.	22.	1.00	35000.00	16.00	9.00	83.00	66.55	57.36	43.00	29.30	0.00	0.00	0.00	279.26	123.89	0.49	
93822.	1954.	6.	22.	2.00	35000.00	14.00	10.00	85.00	67.40	57.77	41.00	29.30	1.00	0.00	0.00	232.91	126.87	0.50	
93822.	1954.	6.	22.	3.00	35000.00	15.00	13.00	84.00	68.71	60.87	47.00	29.30	3.00	0.00	0.00	217.13	127.18	0.56	
93822.	1954.	6.	22.	4.00	35000.00	16.00	16.00	86.00	66.69	55.68	37.00	29.31	2.00	0.00	0.00	115.41	128.93	0.47	
93822.	1954.	6.	22.	5.00	35000.00	16.00	15.00	84.00	65.55	54.68	38.00	29.32	2.00	0.00	0.00	54.29	126.12	0.45	
93822.	1954.	6.	22.	6.00	35000.00	16.00	12.00	82.00	65.43	55.79	42.00	29.32	2.00	0.00	0.00	46.91	123.36	0.47	
93822.	1954.	6.	22.	7.00	35000.00	15.00	5.00	79.00	65.00	56.94	48.00	29.34	0.00	0.00	0.00	0.00	118.52	0.48	
93822.	1954.	6.	22.	8.00	35000.00	13.00	4.00	76.00	65.74	60.15	59.00	29.36	0.00	0.00	0.00	0.00	114.61	0.54	
93822.	1954.	6.	22.	9.00	35000.00	11.00	4.00	72.00	64.10	59.64	66.00	29.37	0.00	0.00	0.00	0.00	109.58	0.53	
93822.	1954.	6.	22.	10.00	35000.00	11.00	5.00	70.00	63.77	60.25	72.00	29.37	0.00	0.00	0.00	0.00	107.13	0.54	
93822.	1954.	6.	22.	11.00	35000.00	14.00	5.00	69.00	62.86	59.29	72.00	29.37	0.00	0.00	0.00	0.00	105.92	0.52	

30dayevap.txt																					
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.		
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(I)
93822.	1954.	6.	22.	12.00	35000.00	16.00	7.00	67.00	62.16	59.30	77.00	29.38	0.00	0.00	0.00	0.00	103.54	103.54	103.54	0.52	
93822.	1954.	6.	22.	13.00	35000.00	2.00	3.00	70.00	63.05	59.02	69.00	29.39	0.00	0.00	0.00	0.00	107.13	107.13	107.13	0.51	
93822.	1954.	6.	22.	14.00	35000.00	1.00	2.00	67.00	62.60	60.04	79.00	29.40	0.00	0.00	0.00	0.00	103.54	103.54	103.54	0.53	
93822.	1954.	6.	22.	15.00	35000.00	15.00	2.00	64.00	61.44	59.89	87.00	29.42	0.00	0.00	0.00	0.00	100.05	100.05	100.05	0.53	
93822.	1954.	6.	22.	16.00	35000.00	1.00	2.00	64.00	62.04	60.88	90.00	29.43	0.00	0.00	0.00	0.00	100.05	100.05	100.05	0.54	
93822.	1954.	6.	22.	17.00	35000.00	1.00	2.00	64.00	62.04	60.88	90.00	29.45	0.00	0.00	0.00	58.78	100.05	100.05	100.05	0.54	
93822.	1954.	6.	22.	18.00	35000.00	2.00	7.00	69.00	63.56	60.47	75.00	29.45	0.00	0.00	0.00	59.45	105.92	105.92	105.92	0.54	
93822.	1954.	6.	22.	19.00	35000.00	2.00	9.00	73.00	63.44	57.82	60.00	29.47	0.00	0.00	0.00	184.94	110.82	110.82	110.82	0.49	
93822.	1954.	6.	22.	20.00	35000.00	3.00	8.00	76.00	64.63	58.11	55.00	29.47	0.00	0.00	0.00	239.35	114.61	114.61	114.61	0.50	
93822.	1954.	6.	22.	21.00	35000.00	3.00	9.00	78.00	63.91	55.42	47.00	29.48	0.00	0.00	0.00	221.15	117.20	117.20	117.20	0.46	
93822.	1954.	6.	22.	22.00	35000.00	3.00	7.00	81.00	65.01	55.57	43.00	29.48	0.00	0.00	0.00	307.09	121.18	121.18	121.18	0.46	
93822.	1954.	6.	22.	23.00	35000.00	2.00	13.00	82.00	65.11	55.09	41.00	29.48	0.00	0.00	0.00	315.77	122.53	122.53	122.53	0.45	
93822.	1954.	6.	23.	0.00	35000.00	3.00	9.00	82.00	65.11	55.09	41.00	29.47	0.00	0.00	0.00	283.84	122.53	122.53	122.53	0.45	
93822.	1954.	6.	23.	1.00	35000.00	3.00	10.00	84.00	66.66	56.87	41.00	29.46	0.00	0.00	0.00	278.07	125.27	125.27	125.27	0.48	
93822.	1954.	6.	23.	2.00	35000.00	3.00	10.00	84.00	64.48	52.32	35.00	29.45	0.00	0.00	0.00	235.27	125.27	125.27	125.27	0.41	
93822.	1954.	6.	23.	3.00	35000.00	1.00	6.00	84.00	64.11	51.50	34.00	29.45	0.00	0.00	0.00	211.56	125.27	125.27	125.27	0.40	
93822.	1954.	6.	23.	4.00	35000.00	2.00	8.00	85.00	63.69	49.73	31.00	29.43	0.00	0.00	0.00	117.86	126.66	126.66	126.66	0.38	
93822.	1954.	6.	23.	5.00	35000.00	2.00	5.00	83.00	64.82	53.80	38.00	29.41	0.00	0.00	0.00	55.51	123.89	123.89	123.89	0.44	
93822.	1954.	6.	23.	6.00	35000.00	3.00	4.00	84.00	64.84	53.13	36.00	29.41	0.00	0.00	0.00	45.97	125.27	125.27	125.27	0.43	
93822.	1954.	6.	23.	7.00	35000.00	3.00	4.00	79.00	64.39	55.70	46.00	29.42	0.00	0.00	0.00	0.00	118.52	118.52	118.52	0.46	
93822.	1954.	6.	23.	8.00	35000.00	3.00	4.00	76.00	62.88	54.79	49.00	29.42	0.00	0.00	0.00	0.00	114.61	114.61	114.61	0.45	
93822.	1954.	6.	23.	9.00	35000.00	5.00	3.00	74.00	63.21	56.77	56.00	29.42	0.00	0.00	0.00	0.00	112.07	112.07	112.07	0.48	
93822.	1954.	6.	23.	10.00	35000.00	4.00	4.00	70.00	62.57	58.17	67.00	29.43	0.00	0.00	0.00	0.00	107.13	107.13	107.13	0.50	
93822.	1954.	6.	23.	11.00	35000.00	6.00	3.00	69.00	62.16	58.06	69.00	29.43	0.00	0.00	0.00	0.00	105.92	105.92	105.92	0.50	
93822.	1954.	6.	23.	12.00	35000.00	5.00	4.00	68.00	61.49	57.52	70.00	29.42	0.00	0.00	0.00	0.00	104.72	104.72	104.72	0.49	
93822.	1954.	6.	23.	13.00	35000.00	6.00	3.00	66.00	60.57	57.19	74.00	29.42	0.00	0.00	0.00	0.00	102.37	102.37	102.37	0.48	
93822.	1954.	6.	23.	14.00	35000.00	7.00	6.00	67.00	60.13	55.74	68.00	29.41	0.00	0.00	0.00	0.00	103.54	103.54	103.54	0.46	
93822.	1954.	6.	23.	15.00	35000.00	8.00	8.00	69.00	59.98	54.08	60.00	29.41	0.00	0.00	0.00	0.00	105.92	105.92	105.92	0.43	
93822.	1954.	6.	23.	16.00	35000.00	8.00	9.00	69.00	59.98	54.08	60.00	29.42	1.00	0.00	0.00	0.00	106.10	106.10	106.10	0.43	
93822.	1954.	6.	23.	17.00	35000.00	8.00	5.00	68.00	59.60	54.06	62.00	29.42	1.00	0.00	0.00	57.34	104.90	104.90	104.90	0.43	
93822.	1954.	6.	23.	18.00	35000.00	9.00	10.00	71.00	61.45	55.47	59.00	29.43	0.00	0.00	0.00	59.27	108.35	108.35	108.35	0.45	
93822.	1954.	6.	23.	19.00	35000.00	8.00	11.00	76.00	64.62	58.11	55.00	29.44	0.00	0.00	0.00	183.56	114.61	114.61	114.61	0.50	
93822.	1954.	6.	23.	20.00	35000.00	9.00	9.00	80.00	67.08	60.18	52.00	29.45	5.00	0.00	0.00	225.39	124.94	124.94	124.94	0.54	
93822.	1954.	6.	23.	21.00	35000.00	10.00	8.00	83.00	68.59	61.18	49.00	29.44	5.00	0.00	0.00	224.74	129.16	129.16	129.16	0.56	
93822.	1954.	6.	23.	22.00	35000.00	12.00	5.00	87.00	68.60	58.83	40.00	29.42	9.00	0.00	0.00	276.06	147.30	147.30	147.30	0.52	
93822.	1954.	6.	23.	23.00	35000.00	9.00	6.00	90.00	67.67	54.95	32.00	29.40	7.00	0.00	0.00	288.93	144.93	144.93	144.93	0.46	
93822.	1954.	6.	24.	0.00	35000.00	8.00	7.00	91.00	67.96	54.90	31.00	29.38	8.00	0.00	0.00	272.68	149.97	149.97	149.97	0.46	
93822.	1954.	6.	24.	1.00	35000.00	8.00	7.00	93.00	68.48	54.67	29.00	29.36	6.00	0.00	0.00	256.41	146.69	146.69	146.69	0.45	
93822.	1954.	6.	24.	2.00	35000.00	9.00	10.00	94.00	69.63	56.52	30.00	29.34	3.00	0.00	0.00	223.15	141.87	141.87	141.87	0.49	
93822.	1954.	6.	24.	3.00	35000.00	9.00	12.00	94.00	68.71	54.50	28.00	29.31	3.00	0.00	0.00	217.28	141.87	141.87	141.87	0.45	
93822.	1954.	6.	24.	4.00	35000.00	10.00	11.00	94.00	68.70	54.50	28.00	29.30	3.00	0.00	0.00	111.62	141.87	141.87	141.87	0.45	
93822.	1954.	6.	24.	5.00	35000.00	10.00	10.00	93.00	67.55	52.60	27.00	29.30	6.00	0.00	0.00	50.57	146.69	146.69	146.69	0.42	
93822.	1954.	6.	24.	6.00	35000.00	10.00	6.00	90.00	68.06	55.86	33.00	29.30	6.00	0.00	0.00	46.26	141.98	141.98	141.98	0.47	
93822.	1954.	6.	24.	7.00	35000.00	10.00	6.00	86.00	68.18	58.67	41.00	29.31	7.00	0.00	0.00	0.00	138.72	138.72	138.72	0.52	
93822.	1954.	6.	24.	8.00	35000.00	10.00	7.00	84.00	66.63	56.88	41.00	29.33	6.00	0.00	0.00	0.00	132.93	132.93	132.93	0.48	
93822.	1954.	6.	24.	9.00	35000.00	9.00	9.00	83.00	65.86	55.99	41.00	29.34	3.00	0.00	0.00	0.00	125.79	125.79	125.79	0.47	
93822.	1954.	6.	24.	10.00	35000.00	9.00	10.00	81.00	65.98	57.52	46.00	29.34	0.00	0.00	0.00	0.00	121.18	121.18	121.18	0.49	
93822.	1954.	6.	24.	11.00	35000.00	10.00	13.00	79.00	65.93	58.69	51.00	29.34	0.00	0.00	0.00	0.00	118.52	118.52	118.52	0.51	
93822.	1954.	6.	24.	12.00	35000.00	10.00	8.00	75.00	64.88	59.21	59.00	29.33	0.00	0.00	0.00	0.00	113.34	113.34	113.34	0.52	
93822.	1954.	6.	24.	13.00	35000.00	10.00	9.00	73.00	64.73	60.14	65.00	29.33	1.00	0.00	0.00	0.00	111.01	111.01	111.01	0.54	
93822.	1954.	6.	24.																		

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Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.		
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(I)
93822.	1954.	6.	24.	18.00	35000.00	10.00	10.00	74.00	65.35	60.64	64.00	29.34	0.00	0.00	0.00	59.06	112.07		0.55		
93822.	1954.	6.	24.	19.00	35000.00	10.00	12.00	81.00	68.82	62.75	55.00	29.32	0.00	0.00	0.00	181.36	121.18		0.59		
93822.	1954.	6.	24.	20.00	35000.00	11.00	14.00	85.00	69.86	62.40	48.00	29.31	0.00	0.00	0.00	234.59	126.66		0.59		
93822.	1954.	6.	24.	21.00	35000.00	11.00	11.00	87.00	72.19	65.45	50.00	29.31	0.00	0.00	0.00	220.84	129.47		0.65		
93822.	1954.	6.	24.	22.00	35000.00	12.00	7.00	91.00	73.23	65.25	44.00	29.29	0.00	0.00	0.00	300.74	135.26		0.65		
93822.	1954.	6.	24.	23.00	35000.00	11.00	9.00	94.00	75.21	67.26	43.00	29.27	0.00	0.00	0.00	307.96	139.74		0.70		
93822.	1954.	6.	25.	0.00	35000.00	11.00	11.00	96.00	74.65	65.30	38.00	29.25	3.00	0.00	0.00	291.32	144.97		0.65		
93822.	1954.	6.	25.	1.00	35000.00	11.00	11.00	98.00	74.81	64.58	35.00	29.23	1.00	0.00	0.00	266.94	146.15		0.64		
93822.	1954.	6.	25.	2.00	35000.00	11.00	14.00	99.00	74.13	62.75	32.00	29.22	0.00	0.00	0.00	227.27	147.47		0.60		
93822.	1954.	6.	25.	3.00	35000.00	12.00	12.00	100.00	74.36	62.66	31.00	29.21	0.00	0.00	0.00	211.69	149.06		0.60		
93822.	1954.	6.	25.	4.00	35000.00	11.00	17.00	99.00	75.55	65.46	35.00	29.20	1.00	0.00	0.00	112.29	147.73		0.66		
93822.	1954.	6.	25.	5.00	35000.00	12.00	15.00	99.00	75.55	65.46	35.00	29.20	0.00	0.00	0.00	52.70	147.47		0.66		
93822.	1954.	6.	25.	6.00	35000.00	11.00	13.00	95.00	74.31	65.20	39.00	29.21	0.00	0.00	0.00	46.19	141.26		0.65		
93822.	1954.	6.	25.	7.00	35000.00	11.00	11.00	91.00	72.83	64.56	43.00	29.22	0.00	0.00	0.00	0.00	135.26		0.63		
93822.	1954.	6.	25.	8.00	35000.00	11.00	9.00	88.00	72.65	65.76	49.00	29.24	2.00	0.00	0.00	0.00	131.79		0.66		
93822.	1954.	6.	25.	9.00	35000.00	12.00	7.00	85.00	71.54	65.35	53.00	29.24	0.00	0.00	0.00	0.00	126.66		0.65		
93822.	1954.	6.	25.	10.00	35000.00	11.00	8.00	84.00	71.35	65.54	55.00	29.24	0.00	0.00	0.00	0.00	125.27		0.65		
93822.	1954.	6.	25.	11.00	35000.00	10.00	9.00	81.00	70.63	65.83	61.00	29.25	0.00	0.00	0.00	0.00	121.18		0.65		
93822.	1954.	6.	25.	12.00	35000.00	10.00	13.00	82.00	72.99	69.15	66.00	29.25	0.00	0.00	0.00	0.00	122.53		0.73		
93822.	1954.	6.	25.	13.00	35000.00	11.00	11.00	82.00	72.99	69.15	66.00	29.25	0.00	0.00	0.00	0.00	122.53		0.73		
93822.	1954.	6.	25.	14.00	35000.00	11.00	10.00	80.00	72.60	69.44	71.00	29.26	0.00	0.00	0.00	0.00	119.84		0.74		
93822.	1954.	6.	25.	15.00	35000.00	11.00	10.00	79.00	72.50	69.73	74.00	29.26	0.00	0.00	0.00	0.00	118.52		0.74		
93822.	1954.	6.	25.	16.00	35000.00	11.00	10.00	78.00	72.11	69.58	76.00	29.25	0.00	0.00	0.00	0.00	117.20		0.74		
93822.	1954.	6.	25.	17.00	35000.00	11.00	7.00	78.00	71.85	69.18	75.00	29.27	0.00	0.00	0.00	55.76	117.20		0.73		
93822.	1954.	6.	25.	18.00	35000.00	11.00	8.00	81.00	73.80	70.83	72.00	29.31	0.00	0.00	0.00	58.82	121.18		0.77		
93822.	1954.	6.	25.	19.00	35000.00	13.00	11.00	86.00	74.04	69.01	58.00	29.31	3.00	0.00	0.00	173.61	130.02		0.73		
93822.	1954.	6.	25.	20.00	25000.00	13.00	12.00	89.00	74.55	68.47	52.00	29.31	8.00	0.00	0.00	213.66	146.74		0.72		
93822.	1954.	6.	25.	21.00	35000.00	14.00	13.00	93.00	75.61	68.41	46.00	29.31	9.00	0.00	0.00	205.45	157.26		0.72		
93822.	1954.	6.	25.	22.00	35000.00	15.00	16.00	94.00	75.22	67.26	43.00	29.32	10.00	0.00	0.00	253.80	163.49		0.70		
93822.	1954.	6.	25.	23.00	35000.00	14.00	13.00	96.00	75.96	67.61	41.00	29.30	7.00	0.00	0.00	285.03	154.68		0.70		
93822.	1954.	6.	26.	0.00	35000.00	14.00	14.00	97.00	75.42	66.19	38.00	29.27	7.00	0.00	0.00	279.44	156.36		0.67		
93822.	1954.	6.	26.	1.00	35000.00	14.00	12.00	99.00	76.49	67.15	37.00	29.26	6.00	0.00	0.00	252.87	156.50		0.70		
93822.	1954.	6.	26.	2.00	35000.00	13.00	9.00	101.00	76.57	66.33	34.00	29.24	6.00	0.00	0.00	212.57	159.89		0.68		
93822.	1954.	6.	26.	3.00	35000.00	14.00	13.00	102.00	76.31	65.35	32.00	29.23	7.00	0.00	0.00	208.57	164.97		0.66		
93822.	1954.	6.	26.	4.00	35000.00	13.00	15.00	102.00	76.81	66.29	33.00	29.22	5.00	0.00	0.00	106.78	158.76		0.68		
93822.	1954.	6.	26.	5.00	35000.00	14.00	13.00	99.00	76.94	67.97	38.00	29.23	3.00	0.00	0.00	51.20	149.73		0.72		
93822.	1954.	6.	26.	6.00	35000.00	16.00	12.00	97.00	77.15	69.24	42.00	29.24	1.00	0.00	0.00	46.95	144.58		0.74		
93822.	1954.	6.	26.	7.00	35000.00	2.00	13.00	92.00	78.50	73.53	56.00	29.27	5.00	0.00	0.00	0.00	142.55		0.85		
93822.	1954.	6.	26.	8.00	35000.00	2.00	9.00	88.00	77.71	73.90	64.00	29.29	0.00	0.00	0.00	0.00	130.90		0.86		
93822.	1954.	6.	26.	9.00	35000.00	2.00	10.00	86.00	77.17	73.87	68.00	29.31	0.00	0.00	0.00	0.00	128.06		0.86		
93822.	1954.	6.	26.	10.00	35000.00	2.00	8.00	84.00	76.25	73.29	71.00	29.32	0.00	0.00	0.00	0.00	125.27		0.84		
93822.	1954.	6.	26.	11.00	35000.00	2.00	5.00	82.00	75.55	73.04	75.00	29.33	0.00	0.00	0.00	0.00	122.53		0.83		
93822.	1954.	6.	26.	12.00	35000.00	2.00	4.00	80.00	75.03	73.09	80.00	29.33	0.00	0.00	0.00	0.00	119.84		0.83		
93822.	1954.	6.	26.	13.00	35000.00	3.00	6.00	78.00	73.65	71.88	82.00	29.34	0.00	0.00	0.00	0.00	117.20		0.80		
93822.	1954.	6.	26.	14.00	35000.00	3.00	7.00	77.00	72.96	71.28	83.00	29.33	0.00	0.00	0.00	0.00	115.90		0.78		
93822.	1954.	6.	26.	15.00	35000.00	3.00	6.00	76.00	72.49	71.01	85.00	29.35	0.00	0.00	0.00	0.00	114.61		0.77		
93822.	1954.	6.	26.	16.00	35000.00	3.00	5.00	75.00	72.25	71.08	88.00	29.37	0.00	0.00	0.00	0.00	113.34		0.78		
93822.	1954.	6.	26.	17.00	35000.00	6.00	3.00	74.00	71.75	70.78	90.00	29.37	0.00	0.00	0.00	56.05	112.07		0.77		
93822.	1954.	6.	26.	18.00	35000.00	4.00	3.00	76.00	72.49	71.01	85.00	29.39	2.00	0.00	0.00	59.92	115.39		0.77		
93822.	1954.	6.	26.	19.00	35000.00	4.00	4.00	81.00	72.96	69.54	69.00	29.40	4.00	0.00	0.00	173.50	124.48		0.74		
93822.	1954.	6.	26.	20.00	35000.00	3.00	6.00	82.00	73.58	70.05	68.00	29.40	8.00	0.00	0.00	216.72	135.86		0.75		
93822.	1954.	6.	26.	21.00	35000.00	3.00	5.00	85.00	74.44	70.09	62.00	29.40	8.00	0.00	0.00	211.82	140.44		0.76		
93822.	1954.	6.	26.	22.00	35000.00	4.00	6.00	87.00	75.23	70.46	59.00	29.40	6.00	0.00	0.00	284.86	137.39		0.77		
93822.	1954.	6.	26.	23.00	35000.00	3.00	7.00	89.00	75.95	70.74	56.00	29.40	5.00	0.00	0.00	295.65	137.96		0.78		

30dayevap.txt																				
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.	
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(in Hg)	Cov(.1)
93822.	1954.	6.	27.	0.00	35000.00	3.00	8.00	90.00	76.10	70.55	54.00	29.39	5.00	0.00	0.00	288.41	139.48	0.77		
93822.	1954.	6.	27.	1.00	35000.00	3.00	6.00	91.00	75.50	69.12	50.00	29.38	3.00	0.00	0.00	266.00	137.33	0.74		
93822.	1954.	6.	27.	2.00	35000.00	2.00	9.00	92.00	75.57	68.79	48.00	29.36	1.00	0.00	0.00	229.17	136.97	0.73		
93822.	1954.	6.	27.	3.00	35000.00	4.00	12.00	93.00	76.00	69.07	47.00	29.35	1.00	0.00	0.00	214.84	138.46	0.74		
93822.	1954.	6.	27.	4.00	35000.00	3.00	12.00	92.00	73.64	65.46	43.00	29.35	1.00	0.00	0.00	114.93	136.97	0.65		
93822.	1954.	6.	27.	5.00	30000.00	5.00	9.00	89.00	71.65	63.44	44.00	29.36	6.00	0.00	0.00	51.56	140.44	0.61		
93822.	1954.	6.	27.	6.00	25000.00	4.00	8.00	86.00	70.33	62.69	47.00	29.36	9.00	0.00	0.00	43.16	145.69	0.59		
93822.	1954.	6.	27.	7.00	25000.00	3.00	10.00	84.00	66.99	57.58	42.00	29.36	9.00	0.00	0.00	0.00	142.52	0.50		
93822.	1954.	6.	27.	8.00	25000.00	3.00	10.00	83.00	65.17	54.54	39.00	29.38	9.00	0.00	0.00	0.00	140.95	0.45		
93822.	1954.	6.	27.	9.00	35000.00	5.00	18.00	78.00	61.68	50.83	40.00	29.39	2.00	0.00	0.00	0.00	118.00	0.39		
93822.	1954.	6.	27.	10.00	35000.00	4.00	14.00	75.00	59.08	47.47	39.00	29.39	1.00	0.00	0.00	0.00	113.53	0.34		
93822.	1954.	6.	27.	11.00	35000.00	4.00	13.00	72.00	57.67	46.86	42.00	29.42	0.00	0.00	0.00	0.00	109.58	0.33		
93822.	1954.	6.	27.	12.00	35000.00	5.00	16.00	70.00	55.84	44.43	41.00	29.42	0.00	0.00	0.00	0.00	107.13	0.31		
93822.	1954.	6.	27.	13.00	35000.00	5.00	9.00	67.00	54.04	43.06	43.00	29.44	0.00	0.00	0.00	0.00	103.54	0.29		
93822.	1954.	6.	27.	14.00	35000.00	4.00	8.00	66.00	53.76	43.39	45.00	29.44	0.00	0.00	0.00	0.00	102.37	0.29		
93822.	1954.	6.	27.	15.00	35000.00	4.00	9.00	64.00	52.17	41.60	45.00	29.43	1.00	0.00	0.00	0.00	100.22	0.27		
93822.	1954.	6.	27.	16.00	35000.00	4.00	10.00	63.00	52.31	42.98	49.00	29.44	3.00	0.00	0.00	0.00	100.43	0.29		
93822.	1954.	6.	27.	17.00	35000.00	4.00	6.00	62.00	52.85	45.18	55.00	29.45	6.00	0.00	0.00	53.97	103.77	0.31		
93822.	1954.	6.	27.	18.00	35000.00	4.00	7.00	63.00	53.23	45.09	53.00	29.45	3.00	0.00	0.00	59.82	100.43	0.31		
93822.	1954.	6.	27.	19.00	35000.00	6.00	5.00	69.00	56.67	47.27	47.00	29.46	3.00	0.00	0.00	179.36	107.54	0.34		
93822.	1954.	6.	27.	20.00	35000.00	6.00	9.00	73.00	58.45	47.75	42.00	29.46	3.00	0.00	0.00	232.32	112.51	0.35		
93822.	1954.	6.	27.	21.00	35000.00	7.00	10.00	78.00	60.39	47.87	36.00	29.45	3.00	0.00	0.00	226.13	119.00	0.35		
93822.	1954.	6.	27.	22.00	35000.00	5.00	3.00	83.00	63.02	49.78	33.00	29.45	3.00	0.00	0.00	296.19	125.79	0.38		
93822.	1954.	6.	27.	23.00	35000.00	7.00	7.00	87.00	65.12	51.45	31.00	29.44	1.00	0.00	0.00	309.30	129.69	0.40		
93822.	1954.	6.	28.	0.00	35000.00	6.00	6.00	89.00	66.54	53.17	31.00	29.42	2.00	0.00	0.00	290.14	133.24	0.43		
93822.	1954.	6.	28.	1.00	35000.00	5.00	4.00	92.00	68.67	55.76	31.00	29.40	2.00	0.00	0.00	268.15	137.67	0.47		
93822.	1954.	6.	28.	2.00	35000.00	5.00	6.00	93.00	69.38	56.62	31.00	29.38	1.00	0.00	0.00	228.66	138.46	0.49		
93822.	1954.	6.	28.	3.00	35000.00	4.00	7.00	95.00	71.26	59.28	32.00	29.35	3.00	0.00	0.00	217.48	143.42	0.53		
93822.	1954.	6.	28.	4.00	35000.00	7.00	6.00	95.00	70.81	58.35	31.00	29.35	3.00	0.00	0.00	111.66	143.42	0.52		
93822.	1954.	6.	28.	5.00	35000.00	5.00	7.00	94.00	70.98	59.33	33.00	29.34	1.00	0.00	0.00	53.37	139.97	0.53		
93822.	1954.	6.	28.	6.00	35000.00	6.00	6.00	92.00	69.10	56.69	32.00	29.35	1.00	0.00	0.00	47.08	136.97	0.49		
93822.	1954.	6.	28.	7.00	25000.00	5.00	6.00	86.00	67.08	56.45	38.00	29.35	6.00	0.00	0.00	0.00	135.89	0.48		
93822.	1954.	6.	28.	8.00	25000.00	5.00	6.00	83.00	65.16	54.54	39.00	29.37	7.00	0.00	0.00	0.00	134.21	0.45		
93822.	1954.	6.	28.	9.00	25000.00	5.00	6.00	82.00	63.70	52.15	37.00	29.37	7.00	0.00	0.00	0.00	132.74	0.41		
93822.	1954.	6.	28.	10.00	35000.00	7.00	5.00	81.00	62.61	50.50	36.00	29.38	5.00	0.00	0.00	0.00	126.33	0.39		
93822.	1954.	6.	28.	11.00	35000.00	7.00	10.00	79.00	62.78	52.42	41.00	29.38	0.00	0.00	0.00	0.00	118.52	0.41		
93822.	1954.	6.	28.	12.00	35000.00	7.00	10.00	80.00	62.20	50.40	37.00	29.37	0.00	0.00	0.00	0.00	119.84	0.38		
93822.	1954.	6.	28.	13.00	35000.00	7.00	7.00	78.00	61.03	49.39	38.00	29.37	0.00	0.00	0.00	0.00	117.20	0.37		
93822.	1954.	6.	28.	14.00	35000.00	8.00	7.00	76.00	60.77	50.42	42.00	29.37	0.00	0.00	0.00	0.00	114.61	0.38		
93822.	1954.	6.	28.	15.00	12000.00	8.00	8.00	75.00	60.59	50.83	44.00	29.38	8.00	0.00	0.00	0.00	125.67	0.39		
93822.	1954.	6.	28.	16.00	35000.00	8.00	9.00	75.00	60.89	51.47	45.00	29.38	3.00	0.00	0.00	0.00	115.07	0.40		
93822.	1954.	6.	28.	17.00	35000.00	8.00	10.00	75.00	60.89	51.47	45.00	29.40	1.00	0.00	0.00	54.59	113.53	0.40		
93822.	1954.	6.	28.	18.00	35000.00	8.00	10.00	76.00	61.08	51.09	43.00	29.40	0.00	0.00	0.00	57.94	114.61	0.39		
93822.	1954.	6.	28.	19.00	35000.00	9.00	11.00	79.00	63.43	53.77	43.00	29.41	1.00	0.00	0.00	179.04	118.72	0.43		
93822.	1954.	6.	28.	20.00	35000.00	9.00	10.00	84.00	65.21	53.91	37.00	29.41	1.00	0.00	0.00	231.66	125.48	0.44		
93822.	1954.	6.	28.	21.00	35000.00	9.00	10.00	88.00	68.60	58.22	38.00	29.40	1.00	0.00	0.00	223.19	131.12	0.51		
93822.	1954.	6.	28.	22.00	35000.00	9.00	9.00	92.00	72.45	63.29	40.00	29.40	3.00	0.00	0.00	290.50	138.83	0.61		
93822.	1954.	6.	28.	23.00	6500.00	10.00	21.00	89.00	69.36	59.10	38.00	29.40	9.00	0.00	0.00	283.05	150.56	0.53		
93822.	1954.	6.	29.	0.00	6500.00	9.00	10.00	83.00	70.84	65.15	56.00	29.38	7.00	1000.00	0.00	209.83	134.21	0.64		
93822.	1954.	6.	29.	1.00	35000.00	9.00	11.00	90.00	72.44	64.35	44.00	29.36	7.00	0.00	0.00	255.65	144.93	0.63		
93822.	1954.	6.	29.	2.00	6000.00	9.00	9.00	92.00	74.03	66.16	44.00	29.34	8.00	0.00	0.00	213.06	151.61	0.67		
93822.	1954.	6.	29.	3.00	6000.00	16.00	16.00	77.00	70.93	68.21	75.00	29.42	10.00	1023.00	0.00	69.92	135.61	0.71		
93822.	1954.	6.	29.	4.00	5000.00	1.00	9.00	72.00	70.69	70.11	94.00	29.38	10.00	1024.00	0.00	103.96	128.20	0.75		
93822.	1954.	6.	29.	5.00	5000.00	8.00	7.00	74.00	71.98	71.11	91.00	29.35	10.00	2300.00	0.00	48.90	131.12	0.78		

30dayevap.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(in Hg)
93822.	1954.	6.	29.	6.00	5000.00	5.00	3.00	74.00	69.87	67.97	82.00	29.37	10.00	2300.00	0.00	15.33	131.12	0.70	
93822.	1954.	6.	29.	7.00	5000.00	9.00	3.00	73.00	70.09	68.77	87.00	29.37	8.00	0.00	0.00	0.00	122.87	0.72	
93822.	1954.	6.	29.	8.00	5000.00	10.00	10.00	72.00	68.21	66.37	83.00	29.38	9.00	0.00	0.00	0.00	124.66	0.66	
93822.	1954.	6.	29.	9.00	35000.00	10.00	9.00	71.00	67.26	65.39	83.00	29.38	2.00	0.00	0.00	0.00	109.08	0.64	
93822.	1954.	6.	29.	10.00	35000.00	10.00	5.00	71.00	67.03	65.04	82.00	29.37	3.00	0.00	0.00	0.00	110.00	0.63	
93822.	1954.	6.	29.	11.00	5500.00	12.00	14.00	71.00	67.94	66.45	86.00	29.41	6.00	0.00	0.00	0.00	114.98	0.66	
93822.	1954.	6.	29.	12.00	35000.00	11.00	13.00	72.00	67.98	66.01	82.00	29.39	2.00	0.00	0.00	0.00	110.32	0.65	
93822.	1954.	6.	29.	13.00	6000.00	1.00	17.00	72.00	67.98	66.01	82.00	29.41	6.00	1000.00	0.00	0.00	116.28	0.65	
93822.	1954.	6.	29.	14.00	10000.00	15.00	13.00	71.00	68.17	66.79	87.00	29.42	6.00	0.00	0.00	0.00	114.98	0.67	
93822.	1954.	6.	29.	15.00	11000.00	13.00	7.00	72.00	68.67	67.08	85.00	29.40	9.00	0.00	0.00	0.00	124.66	0.68	
93822.	1954.	6.	29.	16.00	35000.00	12.00	10.00	72.00	68.67	67.08	85.00	29.36	7.00	0.00	0.00	0.00	118.70	0.68	
93822.	1954.	6.	29.	17.00	35000.00	11.00	8.00	71.00	68.61	67.47	89.00	29.36	9.00	0.00	0.00	50.37	123.27	0.69	
93822.	1954.	6.	29.	18.00	9000.00	10.00	10.00	73.00	69.86	68.42	86.00	29.37	8.00	0.00	0.00	35.91	122.87	0.71	
93822.	1954.	6.	29.	19.00	9000.00	13.00	4.00	76.00	71.76	69.93	82.00	29.39	8.00	0.00	0.00	167.12	127.08	0.75	
93822.	1954.	6.	29.	20.00	9000.00	3.00	5.00	77.00	70.67	67.80	74.00	29.43	8.00	0.00	0.00	218.12	128.51	0.70	
93822.	1954.	6.	29.	21.00	35000.00	15.00	4.00	82.00	71.82	67.26	62.00	29.43	5.00	0.00	0.00	223.49	127.74	0.69	
93822.	1954.	6.	29.	22.00	35000.00	2.00	4.00	82.00	71.52	66.77	61.00	29.44	4.00	0.00	0.00	293.40	125.86	0.68	
93822.	1954.	6.	29.	23.00	9000.00	14.00	3.00	84.00	72.64	67.64	59.00	29.44	9.00	0.00	0.00	285.86	142.52	0.70	
93822.	1954.	6.	30.	0.00	15000.00	14.00	5.00	86.00	72.40	66.28	53.00	29.43	8.00	0.00	0.00	204.91	141.99	0.67	
93822.	1954.	6.	30.	1.00	30000.00	9.00	3.00	87.00	73.91	68.33	55.00	29.42	9.00	0.00	0.00	251.77	147.30	0.72	
93822.	1954.	6.	30.	2.00	15000.00	12.00	14.00	87.00	75.56	70.97	60.00	29.43	8.00	0.00	0.00	215.55	143.56	0.78	
93822.	1954.	6.	30.	3.00	35000.00	12.00	13.00	88.00	75.10	69.80	56.00	29.43	5.00	0.00	0.00	215.44	136.46	0.75	
93822.	1954.	6.	30.	4.00	35000.00	12.00	10.00	88.00	75.43	70.34	57.00	29.42	1.00	0.00	0.00	116.36	131.12	0.77	
93822.	1954.	6.	30.	5.00	35000.00	14.00	9.00	87.00	74.91	69.94	58.00	29.41	0.00	0.00	0.00	55.26	129.47	0.75	
93822.	1954.	6.	30.	6.00	35000.00	15.00	4.00	87.00	75.88	71.48	61.00	29.41	0.00	0.00	0.00	46.48	129.47	0.79	
93822.	1954.	6.	30.	7.00	35000.00	16.00	4.00	84.00	75.08	71.51	67.00	29.41	3.00	0.00	0.00	0.00	127.18	0.79	
93822.	1954.	6.	30.	8.00	35000.00	16.00	4.00	81.00	74.08	71.25	73.00	29.43	5.00	0.00	0.00	0.00	126.33	0.78	
93822.	1954.	6.	30.	9.00	35000.00	16.00	5.00	79.00	74.09	72.11	80.00	29.43	3.00	0.00	0.00	0.00	120.33	0.80	
93822.	1954.	6.	30.	10.00	35000.00	16.00	6.00	79.00	72.51	69.73	74.00	29.44	3.00	0.00	0.00	0.00	120.33	0.74	
93822.	1954.	6.	30.	11.00	35000.00	1.00	5.00	77.00	70.67	67.80	74.00	29.45	0.00	0.00	0.00	0.00	115.90	0.70	
93822.	1954.	6.	30.	12.00	35000.00	1.00	4.00	76.00	70.27	67.64	76.00	29.46	2.00	0.00	0.00	0.00	115.39	0.69	
93822.	1954.	6.	30.	13.00	7000.00	3.00	3.00	73.00	69.39	67.71	84.00	29.46	6.00	0.00	0.00	0.00	117.60	0.69	
93822.	1954.	6.	30.	14.00	35000.00	3.00	4.00	74.00	69.15	66.85	79.00	29.47	1.00	0.00	0.00	0.00	112.26	0.67	
93822.	1954.	6.	30.	15.00	35000.00	3.00	5.00	72.00	68.21	66.37	83.00	29.49	4.00	0.00	0.00	0.00	112.56	0.66	
93822.	1954.	6.	30.	16.00	35000.00	4.00	3.00	71.00	68.17	66.79	87.00	29.50	5.00	0.00	0.00	0.00	112.95	0.67	
93822.	1954.	6.	30.	17.00	35000.00	5.00	3.00	70.00	67.87	66.82	90.00	29.51	5.00	0.00	0.00	52.30	111.68	0.67	
93822.	1954.	6.	30.	18.00	25000.00	4.00	6.00	73.00	67.98	65.50	78.00	29.53	6.00	0.00	0.00	57.44	117.60	0.64	
93822.	1954.	6.	30.	19.00	35000.00	5.00	10.00	78.00	67.77	62.51	60.00	29.53	7.00	0.00	0.00	167.82	126.97	0.58	
93822.	1954.	6.	30.	20.00	35000.00	4.00	9.00	81.00	67.92	61.10	52.00	29.54	5.00	0.00	0.00	223.07	126.33	0.56	
93822.	1954.	6.	30.	21.00	35000.00	5.00	6.00	83.00	67.61	59.33	46.00	29.55	4.00	0.00	0.00	224.90	127.26	0.53	
93822.	1954.	6.	30.	22.00	35000.00	2.00	7.00	86.00	68.59	59.37	42.00	29.56	2.00	0.00	0.00	296.88	128.93	0.53	
93822.	1954.	6.	30.	23.00	35000.00	4.00	6.00	88.00	68.24	57.43	37.00	29.54	6.00	0.00	0.00	292.72	138.91	0.50	
93822.	1954.	7.	1.	0.00	35000.00	4.00	4.00	90.00	68.94	57.57	35.00	29.53	9.00	0.00	0.00	263.72	152.21	0.50	
93822.	1954.	7.	1.	1.00	35000.00	5.00	6.00	90.00	69.34	58.39	36.00	29.52	6.00	0.00	0.00	258.30	141.98	0.51	
93822.	1954.	7.	1.	2.00	35000.00	7.00	9.00	92.00	70.83	60.15	36.00	29.50	4.00	0.00	0.00	222.27	140.45	0.55	
93822.	1954.	7.	1.	3.00	35000.00	7.00	5.00	93.00	73.24	64.18	40.00	29.47	4.00	0.00	0.00	217.07	141.99	0.63	
93822.	1954.	7.	1.	4.00	35000.00	6.00	4.00	91.00	70.89	60.87	38.00	29.46	8.00	0.00	0.00	107.19	149.97	0.56	
93822.	1954.	7.	1.	5.00	25000.00	1.00	5.00	91.00	70.07	59.27	36.00	29.46	9.00	0.00	0.00	49.55	153.88	0.53	
93822.	1954.	7.	1.	6.00	4500.00	9.00	24.00	82.00	70.92	65.77	59.00	29.48	10.00	1000.00	0.00	15.34	143.36	0.65	
93822.	1954.	7.	1.	7.00	4500.00	11.00	9.00	79.00	68.91	63.95	61.00	29.48	9.00	1000.00	0.00	0.00	134.84	0.61	
93822.	1954.	7.	1.	8.00	4500.00	13.00	3.00	78.00	69.17	64.88	65.00	29.49	9.00	0.00	0.00	0.00	133.34	0.63	
93822.	1954.	7.	1.	9.00	35000.00	8.00	7.00	79.00	70.33	66.29	66.00	29.50	2.00	0.00	0.00	0.00	119.32	0.66	
93822.	1954.	7.	1.	10.00	35000.00	11.00	5.00	77.00	69.89	66.56	71.00	29.51	4.00	0.00	0.00	0.00	119.05	0.67	
93822.	1954.	7.	1.	11.00	35000.00	9.00	10.00	75.00	70.09	67.83	79.00	29.50	3.00	0.00	0.00	0.00	115.07	0.70	

30dayevap.txt																				
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.	
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(in Hg)	Cov(.1)
93822.	1954.	7.	1.	12.00	35000.00	9.00	9.00	76.00	68.98	65.60	71.00	29.48	0.00	0.00	0.00	0.00	114.61	0.65		
93822.	1954.	7.	1.	13.00	35000.00	10.00	10.00	74.00	68.17	65.30	75.00	29.47	0.00	0.00	0.00	0.00	112.07	0.64		
93822.	1954.	7.	1.	14.00	35000.00	10.00	8.00	73.00	68.21	65.88	79.00	29.47	1.00	0.00	0.00	0.00	111.01	0.65		
93822.	1954.	7.	1.	15.00	35000.00	15.00	4.00	72.00	68.21	66.37	83.00	29.47	3.00	0.00	0.00	0.00	111.25	0.66		
93822.	1954.	7.	1.	16.00	35000.00	7.00	5.00	71.00	67.72	66.10	85.00	29.47	3.00	0.00	0.00	0.00	110.00	0.65		
93822.	1954.	7.	1.	17.00	35000.00	7.00	5.00	72.00	68.21	66.37	83.00	29.47	2.00	0.00	0.00	53.23	110.32	0.66		
93822.	1954.	7.	1.	18.00	35000.00	7.00	5.00	75.00	70.09	67.83	79.00	29.49	1.00	0.00	0.00	57.65	113.53	0.70		
93822.	1954.	7.	1.	19.00	25000.00	8.00	10.00	79.00	71.44	68.05	70.00	29.50	8.00	0.00	0.00	165.30	131.41	0.70		
93822.	1954.	7.	1.	20.00	35000.00	9.00	12.00	80.00	71.22	67.24	66.00	29.50	5.00	0.00	0.00	223.22	124.94	0.69		
93822.	1954.	7.	1.	21.00	12000.00	9.00	15.00	85.00	74.14	69.60	61.00	29.49	8.00	0.00	0.00	148.00	140.44	0.74		
93822.	1954.	7.	1.	22.00	5000.00	13.00	17.00	87.00	74.92	69.94	58.00	29.50	10.00	0.00	0.00	256.82	151.48	0.75		
93822.	1954.	7.	1.	23.00	14000.00	15.00	16.00	85.00	73.83	69.09	60.00	29.49	10.00	0.00	0.00	266.23	148.19	0.73		
93822.	1954.	7.	2.	0.00	14000.00	13.00	6.00	86.00	73.73	68.47	57.00	29.48	10.00	1000.00	0.00	117.49	149.83	0.72		
93822.	1954.	7.	2.	1.00	25000.00	6.00	5.00	85.00	76.88	73.81	70.00	29.45	9.00	0.00	0.00	252.75	144.10	0.85		
93822.	1954.	7.	2.	2.00	25000.00	9.00	10.00	88.00	75.43	70.34	57.00	29.43	7.00	0.00	0.00	217.36	141.80	0.77		
93822.	1954.	7.	2.	3.00	25000.00	10.00	14.00	88.00	75.43	70.34	57.00	29.41	9.00	0.00	0.00	197.26	148.92	0.77		
93822.	1954.	7.	2.	4.00	12000.00	9.00	13.00	87.00	74.90	69.94	58.00	29.39	9.00	0.00	0.00	107.21	147.30	0.75		
93822.	1954.	7.	2.	5.00	11000.00	9.00	14.00	87.00	75.23	70.46	59.00	29.40	10.00	0.00	0.00	46.89	151.48	0.77		
93822.	1954.	7.	2.	6.00	11000.00	9.00	14.00	86.00	74.69	70.03	60.00	29.40	10.00	0.00	0.00	19.29	149.83	0.76		
93822.	1954.	7.	2.	7.00	35000.00	9.00	9.00	84.00	74.78	71.05	66.00	29.39	5.00	0.00	0.00	0.00	130.59	0.78		
93822.	1954.	7.	2.	8.00	30000.00	9.00	10.00	82.00	72.70	68.68	65.00	29.40	10.00	0.00	0.00	0.00	143.36	0.72		
93822.	1954.	7.	2.	9.00	16000.00	9.00	8.00	81.00	72.68	69.10	68.00	29.40	10.00	0.00	0.00	0.00	141.78	0.73		
93822.	1954.	7.	2.	10.00	16000.00	9.00	9.00	80.00	71.50	67.69	67.00	29.40	10.00	0.00	0.00	0.00	140.22	0.70		
93822.	1954.	7.	2.	11.00	16000.00	9.00	6.00	79.00	71.16	67.62	69.00	29.40	10.00	0.00	0.00	0.00	138.66	0.69		
93822.	1954.	7.	2.	12.00	9000.00	9.00	6.00	78.00	70.79	67.52	71.00	29.40	10.00	2300.00	0.00	0.00	137.13	0.69		
93822.	1954.	7.	2.	13.00	12000.00	9.00	5.00	77.00	70.67	67.80	74.00	29.38	10.00	0.00	0.00	0.00	135.61	0.70		
93822.	1954.	7.	2.	14.00	12000.00	9.00	3.00	77.00	70.67	67.80	74.00	29.38	10.00	0.00	0.00	0.00	135.61	0.70		
93822.	1954.	7.	2.	15.00	9000.00	9.00	8.00	76.00	70.01	67.24	75.00	29.37	8.00	0.00	0.00	0.00	127.08	0.68		
93822.	1954.	7.	2.	16.00	9000.00	9.00	10.00	75.00	69.83	67.44	78.00	29.38	8.00	0.00	0.00	0.00	125.67	0.69		
93822.	1954.	7.	2.	17.00	7000.00	10.00	8.00	75.00	69.83	67.44	78.00	29.37	8.00	1000.00	0.00	49.15	125.67	0.69		
93822.	1954.	7.	2.	18.00	5000.00	14.00	8.00	74.00	71.05	69.75	87.00	29.40	10.00	1023.00	0.00	18.62	131.12	0.74		
93822.	1954.	7.	2.	19.00	6000.00	6.00	6.00	74.00	71.52	70.44	89.00	29.39	9.00	0.00	0.00	164.90	127.50	0.76		
93822.	1954.	7.	2.	20.00	5000.00	4.00	7.00	80.00	72.89	69.87	72.00	29.40	6.00	0.00	0.00	220.58	127.18	0.75		
93822.	1954.	7.	2.	21.00	25000.00	1.00	4.00	84.00	74.18	70.11	64.00	29.40	8.00	0.00	0.00	210.36	138.90	0.76		
93822.	1954.	7.	2.	22.00	35000.00	3.00	5.00	86.00	74.69	70.03	60.00	29.40	8.00	0.00	0.00	278.38	141.99	0.76		
93822.	1954.	7.	2.	23.00	35000.00	15.00	6.00	91.00	75.13	68.51	49.00	29.39	9.00	0.00	0.00	281.35	153.88	0.72		
93822.	1954.	7.	3.	0.00	35000.00	8.00	5.00	93.00	74.83	67.06	44.00	29.37	5.00	0.00	0.00	287.78	144.10	0.69		
93822.	1954.	7.	3.	1.00	35000.00	9.00	14.00	95.00	76.01	68.17	43.00	29.34	2.00	0.00	0.00	266.14	142.22	0.72		
93822.	1954.	7.	3.	2.00	35000.00	11.00	12.00	96.00	75.96	67.61	41.00	29.32	1.00	0.00	0.00	226.94	143.03	0.70		
93822.	1954.	7.	3.	3.00	35000.00	12.00	10.00	98.00	76.64	67.87	39.00	29.30	5.00	0.00	0.00	215.44	152.10	0.71		
93822.	1954.	7.	3.	4.00	35000.00	11.00	9.00	97.00	77.58	69.96	43.00	29.28	2.00	0.00	0.00	112.06	145.32	0.76		
93822.	1954.	7.	3.	5.00	6000.00	13.00	9.00	97.00	76.73	68.50	41.00	29.27	6.00	0.00	0.00	49.93	153.17	0.73		
93822.	1954.	7.	3.	6.00	6000.00	3.00	4.00	94.00	77.97	71.88	50.00	29.27	7.00	0.00	0.00	34.39	151.37	0.81		
93822.	1954.	7.	3.	7.00	5000.00	1.00	12.00	76.00	69.75	66.84	74.00	29.32	9.00	1023.00	0.00	0.00	130.40	0.67		
93822.	1954.	7.	3.	8.00	5000.00	16.00	23.00	77.00	70.67	67.80	74.00	29.37	10.00	1025.00	0.00	0.00	135.61	0.70		
93822.	1954.	7.	3.	9.00	5000.00	9.00	10.00	74.00	69.14	66.85	79.00	29.34	10.00	1023.00	0.00	0.00	131.12	0.67		
93822.	1954.	7.	3.	10.00	6500.00	10.00	10.00	77.00	69.08	65.28	68.00	29.31	10.00	1000.00	0.00	0.00	135.61	0.64		
93822.	1954.	7.	3.	11.00	9500.00	11.00	7.00	77.00	70.14	66.98	72.00	29.31	10.00	0.00	0.00	0.00	135.61	0.68		
93822.	1954.	7.	3.	12.00	35000.00	2.00	5.00	78.00	71.85	69.18	75.00	29.32	5.00	0.00	0.00	0.00	122.18	0.73		
93822.	1954.	7.	3.	13.00	35000.00	11.00	4.00	75.00	70.81	68.95	82.00	29.32	5.00	0.00	0.00	0.00	118.15	0.72		
93822.	1954.	7.	3.	14.00	35000.00	11.00	5.00	75.00	70.81	68.95	82.00	29.33	5.00	0.00	0.00	0.00	118.15	0.72		
93822.	1954.	7.	3.	15.00	35000.00	11.00	5.00	75.00	70.57	68.58	81.00	29.32	5.00	1000.00	0.00	0.00	118.15	0.71		
93822.	1954.	7.	3.	16.00	5000.00	11.00	7.00	74.00	69.87	67.97	82.00	29.32	6.00	0.00	0.00	0.00	118.93	0.70		
93822.	1954.	7.	3.	17.00	35000.00	11.00	6.00	74.00	69.63	67.60	81.00	29.34	4.00	0.00	0.00	50.98	115.12	0.69		

30dayevap.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.	
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F) (%)	(in Hg) Cov(.1)
93822.	1954.	7.	3.	18.00	35000.00	5.00	4.00	75.00	71.54	70.03	85.00	29.35	8.00	0.00	0.00	53.77	125.67	0.75	
93822.	1954.	7.	3.	19.00	35000.00	8.00	4.00	79.00	71.97	68.91	72.00	29.35	6.00	0.00	0.00	168.15	125.77	0.72	
93822.	1954.	7.	3.	20.00	35000.00	11.00	12.00	83.00	75.06	71.90	70.00	29.36	8.00	0.00	0.00	214.20	137.37	0.80	
93822.	1954.	7.	3.	21.00	35000.00	11.00	11.00	85.00	75.37	71.53	65.00	29.36	7.00	0.00	0.00	215.36	137.21	0.79	
93822.	1954.	7.	3.	22.00	35000.00	13.00	10.00	87.00	75.55	70.97	60.00	29.36	6.00	0.00	0.00	283.64	137.39	0.78	
93822.	1954.	7.	3.	23.00	35000.00	12.00	11.00	90.00	77.48	72.75	58.00	29.35	2.00	0.00	0.00	303.50	134.70	0.83	
93822.	1954.	7.	4.	0.00	35000.00	13.00	10.00	92.00	77.42	71.83	53.00	29.34	0.00	0.00	0.00	282.86	136.74	0.81	
93822.	1954.	7.	4.	1.00	35000.00	11.00	8.00	94.00	77.97	71.88	50.00	29.32	0.00	0.00	0.00	272.14	139.74	0.81	
93822.	1954.	7.	4.	2.00	35000.00	14.00	6.00	96.00	78.03	71.14	46.00	29.31	0.00	0.00	0.00	229.16	142.79	0.79	
93822.	1954.	7.	4.	3.00	35000.00	13.00	12.00	98.00	77.08	68.64	40.00	29.29	3.00	0.00	0.00	217.49	148.13	0.73	
93822.	1954.	7.	4.	4.00	35000.00	12.00	17.00	96.00	75.95	67.61	41.00	29.28	0.00	0.00	0.00	114.62	142.79	0.70	
93822.	1954.	7.	4.	5.00	35000.00	12.00	10.00	96.00	79.62	73.71	50.00	29.28	0.00	0.00	0.00	53.21	142.79	0.86	
93822.	1954.	7.	4.	6.00	35000.00	12.00	5.00	94.00	79.47	74.26	54.00	29.27	2.00	0.00	0.00	47.50	140.69	0.87	
93822.	1954.	7.	4.	7.00	35000.00	13.00	4.00	90.00	77.48	72.75	58.00	29.27	2.00	0.00	0.00	0.00	134.70	0.83	
93822.	1954.	7.	4.	8.00	4000.00	1.00	11.00	87.00	80.18	77.88	75.00	29.29	6.00	0.00	0.00	0.00	137.39	0.98	
93822.	1954.	7.	4.	9.00	35000.00	2.00	10.00	83.00	77.03	74.83	77.00	29.31	0.00	8000.00	0.00	0.00	123.89	0.88	
93822.	1954.	7.	4.	10.00	35000.00	2.00	5.00	81.00	76.49	74.82	82.00	29.31	0.00	8000.00	0.00	0.00	121.18	0.88	
93822.	1954.	7.	4.	11.00	35000.00	2.00	8.00	80.00	76.32	74.95	85.00	29.32	0.00	8200.00	0.00	0.00	119.84	0.88	
93822.	1954.	7.	4.	12.00	35000.00	1.00	13.00	79.00	76.11	75.04	88.00	29.33	0.00	8100.00	0.00	0.00	118.52	0.88	
93822.	1954.	7.	4.	13.00	35000.00	1.00	10.00	76.00	73.45	72.42	89.00	29.33	0.00	8100.00	0.00	0.00	114.61	0.81	
93822.	1954.	7.	4.	14.00	35000.00	1.00	7.00	75.00	72.48	71.43	89.00	29.34	0.00	8100.00	0.00	0.00	113.34	0.78	
93822.	1954.	7.	4.	15.00	35000.00	1.00	5.00	73.00	71.00	70.12	91.00	29.33	0.00	8100.00	0.00	0.00	110.82	0.75	
93822.	1954.	7.	4.	16.00	35000.00	1.00	5.00	72.00	70.25	69.46	92.00	29.33	0.00	7200.00	0.00	0.00	109.58	0.73	
93822.	1954.	7.	4.	17.00	35000.00	1.00	6.00	71.00	69.49	68.79	93.00	29.35	0.00	7200.00	0.00	53.05	108.35	0.72	
93822.	1954.	7.	4.	18.00	35000.00	1.00	8.00	72.00	69.80	68.80	90.00	29.37	0.00	8100.00	0.00	55.49	109.58	0.72	
93822.	1954.	7.	4.	19.00	35000.00	2.00	11.00	76.00	70.26	67.64	76.00	29.38	0.00	0.00	0.00	179.58	114.61	0.69	
93822.	1954.	7.	4.	20.00	35000.00	2.00	13.00	78.00	70.52	67.10	70.00	29.40	1.00	0.00	0.00	232.50	117.40	0.68	
93822.	1954.	7.	4.	21.00	2800.00	1.00	12.00	81.00	72.39	68.65	67.00	29.41	7.00	0.00	0.00	161.61	131.27	0.72	
93822.	1954.	7.	4.	22.00	3000.00	1.00	10.00	81.00	70.94	66.32	62.00	29.41	7.00	0.00	0.00	283.77	131.27	0.67	
93822.	1954.	7.	4.	23.00	30000.00	2.00	7.00	84.00	71.69	66.08	56.00	29.40	6.00	0.00	0.00	294.55	132.93	0.66	
93822.	1954.	7.	5.	0.00	35000.00	3.00	5.00	85.00	71.89	65.92	54.00	29.39	7.00	0.00	0.00	278.49	137.21	0.66	
93822.	1954.	7.	5.	1.00	35000.00	3.00	8.00	86.00	72.06	65.71	52.00	29.37	6.00	0.00	0.00	260.31	135.89	0.66	
93822.	1954.	7.	5.	2.00	35000.00	1.00	6.00	88.00	72.31	65.14	48.00	29.36	5.00	0.00	0.00	221.85	136.46	0.64	
93822.	1954.	7.	5.	3.00	35000.00	3.00	5.00	89.00	72.76	65.42	47.00	29.34	0.00	0.00	0.00	211.80	132.34	0.65	
93822.	1954.	7.	5.	4.00	35000.00	1.00	8.00	88.00	71.22	63.21	45.00	29.33	0.00	0.00	0.00	117.22	130.90	0.60	
93822.	1954.	7.	5.	5.00	35000.00	2.00	9.00	87.00	71.49	64.23	48.00	29.32	0.00	0.00	0.00	54.81	129.47	0.62	
93822.	1954.	7.	5.	6.00	35000.00	3.00	5.00	85.00	70.88	64.21	51.00	29.32	0.00	0.00	0.00	46.36	126.66	0.62	
93822.	1954.	7.	5.	7.00	35000.00	3.00	7.00	82.00	69.98	64.22	56.00	29.32	0.00	0.00	0.00	0.00	122.53	0.62	
93822.	1954.	7.	5.	8.00	35000.00	3.00	6.00	79.00	69.76	65.37	64.00	29.35	0.00	0.00	0.00	0.00	118.52	0.64	
93822.	1954.	7.	5.	9.00	35000.00	3.00	5.00	77.00	68.54	64.39	66.00	29.37	0.00	0.00	0.00	0.00	115.90	0.62	
93822.	1954.	7.	5.	10.00	35000.00	2.00	3.00	75.00	68.58	65.47	73.00	29.37	0.00	0.00	0.00	0.00	113.34	0.64	
93822.	1954.	7.	5.	11.00	35000.00	10.00	3.00	71.00	67.03	65.04	82.00	29.38	0.00	0.00	0.00	0.00	108.35	0.63	
93822.	1954.	7.	5.	12.00	35000.00	10.00	3.00	70.00	66.76	65.12	85.00	29.37	0.00	0.00	0.00	0.00	107.13	0.63	
93822.	1954.	7.	5.	13.00	35000.00	10.00	3.00	68.00	65.71	64.50	89.00	29.37	0.00	0.00	0.00	0.00	104.72	0.62	
93822.	1954.	7.	5.	14.00	35000.00	3.00	3.00	69.00	66.24	64.82	87.00	29.36	0.00	0.00	0.00	0.00	105.92	0.63	
93822.	1954.	7.	5.	15.00	35000.00	6.00	4.00	67.00	64.95	63.85	90.00	29.37	0.00	0.00	0.00	0.00	103.54	0.60	
93822.	1954.	7.	5.	16.00	35000.00	6.00	5.00	67.00	63.68	61.82	84.00	29.37	0.00	0.00	0.00	0.00	103.54	0.56	
93822.	1954.	7.	5.	17.00	35000.00	8.00	6.00	68.00	63.75	61.38	80.00	29.38	0.00	0.00	0.00	52.95	104.72	0.56	
93822.	1954.	7.	5.	18.00	35000.00	9.00	10.00	71.00	64.92	61.62	73.00	29.38	0.00	0.00	0.00	55.00	108.35	0.56	
93822.	1954.	7.	5.	19.00	35000.00	10.00	8.00	76.00	66.84	62.07	63.00	29.37	0.00	0.00	0.00	179.11	114.61	0.57	
93822.	1954.	7.	5.	20.00	35000.00	7.00	7.00	81.00	69.14	63.28	56.00	29.36	0.00	0.00	0.00	233.03	121.18	0.60	
93822.	1954.	7.	5.	21.00	35000.00	9.00	8.00	83.00	68.91	61.78	50.00	29.36	0.00	0.00	0.00	217.96	123.89	0.57	
93822.	1954.	7.	5.	22.00	35000.00	10.00	10.00	86.00	71.03	63.93	49.00	29.35	0.00	0.00	0.00	301.86	128.06	0.62	
93822.	1954.	7.	5.	23.00	35000.00	10.00	9.00	87.00	71.84	64.85	49.00	29.33	0.00	0.00	0.00	311.28	129.47	0.64	

30dayevap.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F) (%)
93822.	1954.	7.	6.	0.00	35000.00	10.00	10.00	89.00	72.01	64.12	45.00	29.28	0.00	0.00	0.00	282.57	132.34	0.62
93822.	1954.	7.	6.	1.00	35000.00	11.00	10.00	93.00	74.81	67.06	44.00	29.25	0.00	0.00	0.00	272.57	138.23	0.69
93822.	1954.	7.	6.	2.00	35000.00	10.00	10.00	94.00	74.79	66.55	42.00	29.23	1.00	0.00	0.00	227.83	139.97	0.68
93822.	1954.	7.	6.	3.00	35000.00	10.00	17.00	94.00	72.70	62.73	37.00	29.21	1.00	0.00	0.00	214.81	139.97	0.60
93822.	1954.	7.	6.	4.00	35000.00	11.00	13.00	95.00	73.44	63.62	37.00	29.18	1.00	0.00	0.00	113.58	141.50	0.62
93822.	1954.	7.	6.	5.00	35000.00	10.00	16.00	95.00	73.01	62.80	36.00	29.15	3.00	0.00	0.00	51.53	143.42	0.60
93822.	1954.	7.	6.	6.00	35000.00	10.00	15.00	91.00	72.03	63.14	41.00	29.14	5.00	0.00	0.00	47.06	141.00	0.60
93822.	1954.	7.	6.	7.00	35000.00	10.00	11.00	89.00	73.09	66.06	48.00	29.13	4.00	0.00	0.00	0.00	135.94	0.66
93822.	1954.	7.	6.	8.00	35000.00	10.00	11.00	86.00	71.68	65.13	51.00	29.12	1.00	0.00	0.00	0.00	128.27	0.64
93822.	1954.	7.	6.	9.00	35000.00	10.00	14.00	85.00	70.85	64.21	51.00	29.10	1.00	0.00	0.00	0.00	126.87	0.62
93822.	1954.	7.	6.	10.00	35000.00	10.00	13.00	82.00	69.96	64.22	56.00	29.11	3.00	0.00	0.00	0.00	124.40	0.62
93822.	1954.	7.	6.	11.00	35000.00	10.00	12.00	82.00	70.26	64.74	57.00	29.10	3.00	0.00	0.00	0.00	124.40	0.63
93822.	1954.	7.	6.	12.00	35000.00	10.00	15.00	83.00	68.87	61.78	50.00	29.08	0.00	0.00	0.00	0.00	123.89	0.57
93822.	1954.	7.	6.	13.00	35000.00	11.00	16.00	82.00	68.68	62.02	52.00	29.05	0.00	0.00	0.00	0.00	122.53	0.58
93822.	1954.	7.	6.	14.00	35000.00	11.00	16.00	81.00	68.79	62.75	55.00	29.05	0.00	0.00	0.00	0.00	121.18	0.59
93822.	1954.	7.	6.	15.00	35000.00	15.00	11.00	81.00	68.80	62.75	55.00	29.10	3.00	0.00	0.00	0.00	123.03	0.59
93822.	1954.	7.	6.	16.00	8000.00	2.00	16.00	72.00	65.57	62.17	72.00	29.14	8.00	0.00	0.00	0.00	121.50	0.57
93822.	1954.	7.	6.	17.00	3000.00	4.00	7.00	70.00	69.36	69.06	97.00	29.14	10.00	1023.00	0.00	44.36	125.34	0.72
93822.	1954.	7.	6.	18.00	5000.00	9.00	10.00	70.00	68.51	67.79	93.00	29.14	10.00	1023.00	0.00	17.98	125.34	0.69
93822.	1954.	7.	6.	19.00	12000.00	8.00	4.00	73.00	71.00	70.12	91.00	29.11	9.00	0.00	0.00	163.65	126.08	0.75
93822.	1954.	7.	6.	20.00	5000.00	10.00	7.00	75.00	71.29	69.67	84.00	29.13	9.00	0.00	0.00	214.32	128.94	0.74
93822.	1954.	7.	6.	21.00	12000.00	10.00	8.00	77.00	71.94	69.78	79.00	29.12	10.00	0.00	0.00	90.30	135.61	0.74
93822.	1954.	7.	6.	22.00	12000.00	11.00	11.00	79.00	72.49	69.73	74.00	29.13	10.00	0.00	0.00	259.98	138.66	0.74
93822.	1954.	7.	6.	23.00	12000.00	11.00	15.00	83.00	72.97	68.69	63.00	29.13	10.00	0.00	0.00	266.61	144.95	0.72
93822.	1954.	7.	7.	0.00	10000.00	11.00	8.00	83.00	72.97	68.69	63.00	29.13	10.00	0.00	0.00	117.20	144.95	0.72
93822.	1954.	7.	7.	1.00	35000.00	12.00	4.00	88.00	75.74	70.88	58.00	29.12	3.00	0.00	0.00	267.29	132.90	0.78
93822.	1954.	7.	7.	2.00	25000.00	16.00	8.00	87.00	73.88	68.33	55.00	29.12	7.00	1000.00	0.00	217.51	140.26	0.72
93822.	1954.	7.	7.	3.00	10000.00	3.00	13.00	80.00	75.28	73.46	81.00	29.13	6.00	1000.00	0.00	182.83	127.18	0.84
93822.	1954.	7.	7.	4.00	2500.00	3.00	14.00	80.00	73.69	71.11	75.00	29.15	10.00	1000.00	0.00	101.52	140.22	0.78
93822.	1954.	7.	7.	5.00	2000.00	3.00	17.00	76.00	71.26	69.18	80.00	29.19	10.00	0.00	0.00	47.90	134.10	0.73
93822.	1954.	7.	7.	6.00	8000.00	3.00	14.00	73.00	67.72	65.12	77.00	29.21	6.00	0.00	0.00	38.67	117.60	0.63
93822.	1954.	7.	7.	7.00	8000.00	3.00	10.00	71.00	65.86	63.18	77.00	29.26	6.00	0.00	0.00	0.00	114.98	0.59
93822.	1954.	7.	7.	8.00	3700.00	3.00	13.00	70.00	64.47	61.44	75.00	29.28	10.00	0.00	0.00	0.00	125.34	0.56
93822.	1954.	7.	7.	9.00	35000.00	3.00	16.00	68.00	62.63	59.51	75.00	29.30	3.00	0.00	0.00	0.00	106.33	0.52
93822.	1954.	7.	7.	10.00	35000.00	2.00	14.00	65.00	59.00	55.06	71.00	29.32	0.00	0.00	0.00	0.00	101.21	0.44
93822.	1954.	7.	7.	11.00	35000.00	2.00	9.00	62.00	56.07	51.80	70.00	29.34	0.00	0.00	0.00	0.00	97.78	0.39
93822.	1954.	7.	7.	12.00	35000.00	3.00	6.00	60.00	55.66	52.53	77.00	29.34	0.00	0.00	0.00	0.00	95.56	0.40
93822.	1954.	7.	7.	13.00	35000.00	1.00	4.00	58.00	53.81	50.60	77.00	29.34	0.00	0.00	0.00	0.00	93.37	0.38
93822.	1954.	7.	7.	14.00	35000.00	1.00	3.00	56.00	52.86	50.41	82.00	29.34	0.00	0.00	0.00	0.00	91.23	0.37
93822.	1954.	7.	7.	15.00	35000.00	1.00	8.00	55.00	51.92	49.44	82.00	29.35	0.00	0.00	0.00	0.00	90.18	0.36
93822.	1954.	7.	7.	16.00	35000.00	1.00	7.00	54.00	51.49	49.44	85.00	29.36	0.00	0.00	0.00	0.00	89.13	0.36
93822.	1954.	7.	7.	17.00	35000.00	2.00	7.00	54.00	51.83	50.08	87.00	29.37	0.00	0.00	0.00	53.63	89.13	0.37
93822.	1954.	7.	7.	18.00	35000.00	4.00	11.00	58.00	53.62	50.24	76.00	29.39	0.00	0.00	0.00	53.94	93.37	0.37
93822.	1954.	7.	7.	19.00	35000.00	4.00	6.00	64.00	57.01	52.06	66.00	29.40	0.00	0.00	0.00	182.33	100.05	0.40
93822.	1954.	7.	7.	20.00	35000.00	2.00	10.00	67.00	57.77	51.26	58.00	29.41	0.00	0.00	0.00	238.41	103.54	0.39
93822.	1954.	7.	7.	21.00	35000.00	2.00	10.00	71.00	60.15	52.96	54.00	29.42	7.00	0.00	0.00	213.98	117.37	0.42
93822.	1954.	7.	7.	22.00	35000.00	3.00	9.00	73.00	61.00	53.19	51.00	29.41	1.00	0.00	0.00	305.66	111.01	0.42
93822.	1954.	7.	7.	23.00	35000.00	3.00	10.00	76.00	61.38	51.73	44.00	29.40	0.00	0.00	0.00	317.42	114.61	0.40
93822.	1954.	7.	8.	0.00	35000.00	4.00	11.00	77.00	60.28	48.51	38.00	29.39	0.00	0.00	0.00	282.23	115.90	0.36
93822.	1954.	7.	8.	1.00	35000.00	3.00	8.00	80.00	62.54	51.15	38.00	29.37	0.00	0.00	0.00	279.85	119.84	0.39
93822.	1954.	7.	8.	2.00	35000.00	3.00	4.00	78.00	60.70	48.64	37.00	29.36	0.00	0.00	0.00	238.11	117.20	0.36
93822.	1954.	7.	8.	3.00	35000.00	3.00	7.00	81.00	61.54	48.05	33.00	29.35	0.00	0.00	0.00	211.63	121.18	0.35
93822.	1954.	7.	8.	4.00	35000.00	4.00	5.00	81.00	61.90	48.89	34.00	29.34	0.00	0.00	0.00	118.87	121.18	0.36
93822.	1954.	7.	8.	5.00	35000.00	2.00	6.00	80.00	60.81	47.19	33.00	29.34	0.00	0.00	0.00	55.43	119.84	0.34

30dayevap.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
													(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F) (%)
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)										(in Hg) Cov.(I)
93822.	1954.	7.	8.	6.00	35000.00	2.00	9.00	79.00	60.77	47.96	35.00	29.34	0.00	0.00	0.00	46.07	118.52	0.35
93822.	1954.	7.	8.	7.00	35000.00	2.00	7.00	76.00	62.28	53.60	47.00	29.34	0.00	0.00	0.00	0.00	114.61	0.43
93822.	1954.	7.	8.	8.00	35000.00	3.00	6.00	71.00	60.14	52.96	54.00	29.35	0.00	0.00	0.00	0.00	108.35	0.42
93822.	1954.	7.	8.	9.00	35000.00	3.00	5.00	69.00	60.22	54.54	61.00	29.37	0.00	0.00	0.00	0.00	105.92	0.44
93822.	1954.	7.	8.	10.00	35000.00	4.00	6.00	67.00	59.66	54.89	66.00	29.37	0.00	0.00	0.00	0.00	103.54	0.44
93822.	1954.	7.	8.	11.00	35000.00	5.00	7.00	66.00	59.01	54.37	67.00	29.38	0.00	0.00	0.00	0.00	102.37	0.43
93822.	1954.	7.	8.	12.00	35000.00	5.00	6.00	64.00	57.88	53.70	70.00	29.38	0.00	0.00	0.00	0.00	100.05	0.42
93822.	1954.	7.	8.	13.00	35000.00	5.00	7.00	64.00	57.88	53.70	70.00	29.37	0.00	0.00	0.00	0.00	100.05	0.42
93822.	1954.	7.	8.	14.00	35000.00	7.00	6.00	64.00	57.66	53.30	69.00	29.37	0.00	0.00	0.00	0.00	100.05	0.42
93822.	1954.	7.	8.	15.00	35000.00	7.00	5.00	64.00	57.22	52.47	67.00	29.38	0.00	0.00	0.00	0.00	100.05	0.40
93822.	1954.	7.	8.	16.00	35000.00	5.00	4.00	63.00	57.19	53.14	71.00	29.40	0.00	0.00	0.00	0.00	98.91	0.41
93822.	1954.	7.	8.	17.00	35000.00	6.00	5.00	61.00	55.99	52.39	74.00	29.41	1.00	0.00	0.00	51.69	96.83	0.40
93822.	1954.	7.	8.	18.00	35000.00	7.00	3.00	63.00	58.24	55.06	76.00	29.42	3.00	0.00	0.00	54.80	100.43	0.44
93822.	1954.	7.	8.	19.00	35000.00	6.00	5.00	70.00	59.83	53.06	56.00	29.42	4.00	0.00	0.00	172.59	110.04	0.42
93822.	1954.	7.	8.	20.00	35000.00	7.00	8.00	75.00	61.48	52.69	47.00	29.41	3.00	0.00	0.00	227.48	115.07	0.41
93822.	1954.	7.	8.	21.00	35000.00	7.00	5.00	77.00	63.09	54.51	47.00	29.41	7.00	0.00	0.00	213.60	125.56	0.44
93822.	1954.	7.	8.	22.00	35000.00	9.00	5.00	80.00	63.89	54.00	42.00	29.43	2.00	0.00	0.00	298.44	120.66	0.44
93822.	1954.	7.	8.	23.00	35000.00	6.00	8.00	82.00	63.71	52.15	37.00	29.42	1.00	0.00	0.00	310.50	122.74	0.41
93822.	1954.	7.	9.	0.00	35000.00	10.00	5.00	84.00	64.10	51.50	34.00	29.40	2.00	0.00	0.00	288.63	126.12	0.40
93822.	1954.	7.	9.	1.00	35000.00	9.00	8.00	85.00	64.07	50.64	32.00	29.40	5.00	0.00	0.00	262.98	132.04	0.39
93822.	1954.	7.	9.	2.00	35000.00	9.00	5.00	87.00	65.50	52.36	32.00	29.39	4.00	0.00	0.00	224.06	132.99	0.42
93822.	1954.	7.	9.	3.00	35000.00	9.00	4.00	87.00	65.50	52.36	32.00	29.38	9.00	0.00	0.00	196.97	147.30	0.42
93822.	1954.	7.	9.	4.00	35000.00	9.00	5.00	86.00	65.94	54.07	35.00	29.37	8.00	0.00	0.00	107.71	141.99	0.44
93822.	1954.	7.	9.	5.00	25000.00	8.00	6.00	84.00	65.56	54.68	38.00	29.36	9.00	0.00	0.00	49.57	142.52	0.45
93822.	1954.	7.	9.	6.00	25000.00	8.00	4.00	83.00	66.56	57.36	43.00	29.36	8.00	0.00	0.00	44.14	137.37	0.49
93822.	1954.	7.	9.	7.00	25000.00	9.00	6.00	81.00	66.30	58.14	47.00	29.35	6.00	0.00	0.00	0.00	128.60	0.50
93822.	1954.	7.	9.	8.00	35000.00	9.00	6.00	78.00	63.89	55.42	47.00	29.37	6.00	0.00	0.00	0.00	124.38	0.46
93822.	1954.	7.	9.	9.00	35000.00	8.00	4.00	77.00	64.58	57.41	52.00	29.37	4.00	0.00	0.00	0.00	119.05	0.49
93822.	1954.	7.	9.	10.00	35000.00	7.00	7.00	75.00	64.61	58.71	58.00	29.38	0.00	0.00	0.00	0.00	113.34	0.51
93822.	1954.	7.	9.	11.00	35000.00	7.00	10.00	74.00	63.75	57.78	58.00	29.39	0.00	0.00	0.00	0.00	112.07	0.49
93822.	1954.	7.	9.	12.00	35000.00	7.00	5.00	73.00	63.96	58.77	62.00	29.40	0.00	0.00	0.00	0.00	110.82	0.51
93822.	1954.	7.	9.	13.00	35000.00	8.00	11.00	72.00	63.34	58.29	63.00	29.39	0.00	0.00	0.00	0.00	109.58	0.50
93822.	1954.	7.	9.	14.00	35000.00	8.00	5.00	71.00	62.97	58.25	65.00	29.39	0.00	0.00	0.00	0.00	108.35	0.50
93822.	1954.	7.	9.	15.00	35000.00	8.00	9.00	71.00	62.97	58.25	65.00	29.39	0.00	0.00	0.00	0.00	108.35	0.50
93822.	1954.	7.	9.	16.00	35000.00	8.00	13.00	71.00	62.46	57.34	63.00	29.39	2.00	0.00	0.00	0.00	109.08	0.49
93822.	1954.	7.	9.	17.00	35000.00	8.00	10.00	70.00	62.08	57.30	65.00	29.39	8.00	0.00	0.00	46.42	118.78	0.48
93822.	1954.	7.	9.	18.00	35000.00	8.00	13.00	72.00	61.78	55.42	57.00	29.40	10.00	0.00	0.00	47.29	128.20	0.45
93822.	1954.	7.	9.	19.00	35000.00	8.00	12.00	75.00	62.64	55.01	51.00	29.40	10.00	0.00	0.00	150.84	132.60	0.45
93822.	1954.	7.	9.	20.00	25000.00	8.00	14.00	77.00	64.00	56.28	50.00	29.42	10.00	0.00	0.00	198.17	135.61	0.47
93822.	1954.	7.	9.	21.00	25000.00	9.00	15.00	80.00	64.87	55.98	45.00	29.42	10.00	0.00	0.00	193.90	140.22	0.47
93822.	1954.	7.	9.	22.00	25000.00	9.00	12.00	81.00	64.67	54.89	42.00	29.43	10.00	0.00	0.00	258.07	141.78	0.45
93822.	1954.	7.	9.	23.00	25000.00	9.00	11.00	83.00	66.22	56.68	42.00	29.42	8.00	0.00	0.00	287.72	137.37	0.48
93822.	1954.	7.	10.	0.00	25000.00	7.00	9.00	84.00	66.65	56.88	41.00	29.42	8.00	0.00	0.00	270.82	138.90	0.48
93822.	1954.	7.	10.	1.00	25000.00	8.00	9.00	86.00	66.71	55.67	37.00	29.40	7.00	0.00	0.00	256.70	138.72	0.47
93822.	1954.	7.	10.	2.00	25000.00	7.00	7.00	87.00	66.68	54.94	35.00	29.37	7.00	0.00	0.00	216.86	140.26	0.46
93822.	1954.	7.	10.	3.00	25000.00	8.00	8.00	86.00	67.82	57.94	40.00	29.37	7.00	0.00	0.00	208.30	138.72	0.50
93822.	1954.	7.	10.	4.00	25000.00	10.00	9.00	87.00	67.84	57.33	38.00	29.37	7.00	0.00	0.00	108.34	140.26	0.49
93822.	1954.	7.	10.	5.00	25000.00	10.00	9.00	85.00	67.77	58.47	42.00	29.36	7.00	0.00	0.00	50.23	137.21	0.51
93822.	1954.	7.	10.	6.00	25000.00	9.00	11.00	83.00	66.21	56.68	42.00	29.36	8.00	0.00	0.00	44.00	137.37	0.48
93822.	1954.	7.	10.	7.00	25000.00	9.00	8.00	80.00	64.86	55.98	45.00	29.36	8.00	0.00	0.00	0.00	132.88	0.47
93822.	1954.	7.	10.	8.00	10000.00	9.00	8.00	79.00	64.69	56.32	47.00	29.37	10.00	0.00	0.00	0.00	138.66	0.47
93822.	1954.	7.	10.	9.00	35000.00	9.00	10.00	79.00	64.69	56.32	47.00	29.37	8.00	0.00	0.00	0.00	131.41	0.47
93822.	1954.	7.	10.	10.00	35000.00	9.00	12.00	79.00	64.69	56.32	47.00	29.36	8.00	0.00	0.00	0.00	131.41	0.47
93822.	1954.	7.	10.	11.00	10000.00	8.00	11.00	79.00	64.38	55.70	46.00	29.36	10.00	0.00	0.00	0.00	138.66	0.46

30dayevap.txt																					
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.		
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(.1)
93822.	1954.	7.	10.	12.00	10000.00	7.00	14.00	79.00	63.74	54.43	44.00	29.34	10.00	0.00	0.00	0.00	138.66	0.44			
93822.	1954.	7.	10.	13.00	7000.00	9.00	17.00	78.00	63.89	55.42	47.00	29.35	10.00	0.00	0.00	0.00	137.13	0.46			
93822.	1954.	7.	10.	14.00	7000.00	9.00	9.00	76.00	63.46	55.93	51.00	29.37	10.00	0.00	0.00	0.00	134.10	0.46			
93822.	1954.	7.	10.	15.00	35000.00	9.00	3.00	74.00	63.75	57.78	58.00	29.37	2.00	0.00	0.00	0.00	112.83	0.49			
93822.	1954.	7.	10.	16.00	35000.00	9.00	5.00	72.00	63.34	58.29	63.00	29.38	1.00	0.00	0.00	0.00	109.76	0.50			
93822.	1954.	7.	10.	17.00	35000.00	8.00	6.00	73.00	63.69	58.30	61.00	29.40	5.00	0.00	0.00	46.98	115.53	0.50			
93822.	1954.	7.	10.	18.00	6000.00	7.00	5.00	74.00	64.03	58.28	59.00	29.41	7.00	0.00	0.00	38.63	121.41	0.50			
93822.	1954.	7.	10.	19.00	35000.00	7.00	8.00	76.00	66.02	60.64	60.00	29.41	3.00	0.00	0.00	171.25	116.37	0.55			
93822.	1954.	7.	10.	20.00	6000.00	8.00	7.00	80.00	66.14	58.44	49.00	29.40	6.00	0.00	0.00	217.39	127.18	0.51			
93822.	1954.	7.	10.	21.00	35000.00	9.00	13.00	82.00	68.41	61.44	51.00	29.40	4.00	0.00	0.00	221.34	125.86	0.57			
93822.	1954.	7.	10.	22.00	35000.00	8.00	14.00	86.00	67.83	57.94	40.00	29.39	6.00	0.00	0.00	282.26	135.89	0.50			
93822.	1954.	7.	10.	23.00	35000.00	9.00	11.00	88.00	68.21	57.44	37.00	29.38	7.00	0.00	0.00	287.66	141.80	0.50			
93822.	1954.	7.	11.	0.00	12000.00	9.00	12.00	90.00	69.31	58.39	36.00	29.37	6.00	0.00	0.00	243.26	141.98	0.51			
93822.	1954.	7.	11.	1.00	35000.00	9.00	10.00	93.00	70.25	58.46	33.00	29.34	5.00	0.00	0.00	257.96	144.10	0.52			
93822.	1954.	7.	11.	2.00	35000.00	9.00	13.00	94.00	70.08	57.49	31.00	29.32	4.00	0.00	0.00	219.96	143.54	0.50			
93822.	1954.	7.	11.	3.00	35000.00	10.00	13.00	95.00	71.25	59.28	32.00	29.31	4.00	0.00	0.00	216.55	145.10	0.53			
93822.	1954.	7.	11.	4.00	35000.00	9.00	13.00	95.00	70.79	58.35	31.00	29.29	4.00	0.00	0.00	108.99	145.10	0.52			
93822.	1954.	7.	11.	5.00	35000.00	9.00	11.00	94.00	70.08	57.49	31.00	29.29	4.00	0.00	0.00	49.94	143.54	0.50			
93822.	1954.	7.	11.	6.00	35000.00	9.00	9.00	93.00	70.24	58.46	33.00	29.28	4.00	0.00	0.00	46.74	141.99	0.52			
93822.	1954.	7.	11.	7.00	35000.00	9.00	8.00	89.00	68.54	57.52	36.00	29.28	2.00	0.00	0.00	0.00	133.24	0.50			
93822.	1954.	7.	11.	8.00	35000.00	9.00	10.00	88.00	68.58	58.22	38.00	29.28	2.00	0.00	0.00	0.00	131.79	0.51			
93822.	1954.	7.	11.	9.00	35000.00	9.00	13.00	86.00	67.06	56.45	38.00	29.29	1.00	0.00	0.00	0.00	128.27	0.48			
93822.	1954.	7.	11.	10.00	35000.00	9.00	15.00	84.00	66.62	56.88	41.00	29.29	1.00	0.00	0.00	0.00	125.48	0.48			
93822.	1954.	7.	11.	11.00	35000.00	9.00	14.00	83.00	65.85	55.99	41.00	29.28	1.00	0.00	0.00	0.00	124.10	0.47			
93822.	1954.	7.	11.	12.00	35000.00	9.00	13.00	82.00	65.76	56.47	43.00	29.27	1.00	0.00	0.00	0.00	122.74	0.48			
93822.	1954.	7.	11.	13.00	35000.00	9.00	15.00	80.00	66.12	58.44	49.00	29.27	0.00	0.00	0.00	0.00	119.84	0.51			
93822.	1954.	7.	11.	14.00	35000.00	9.00	13.00	79.00	66.22	59.25	52.00	29.27	0.00	0.00	0.00	0.00	118.52	0.52			
93822.	1954.	7.	11.	15.00	35000.00	9.00	11.00	78.00	66.87	61.01	57.00	29.27	0.00	0.00	0.00	0.00	117.20	0.55			
93822.	1954.	7.	11.	16.00	35000.00	9.00	10.00	77.00	67.15	62.06	61.00	29.27	2.00	0.00	0.00	0.00	116.69	0.57			
93822.	1954.	7.	11.	17.00	35000.00	9.00	13.00	76.00	66.83	62.07	63.00	29.27	8.00	0.00	0.00	44.57	127.08	0.57			
93822.	1954.	7.	11.	18.00	35000.00	9.00	13.00	77.00	66.87	61.58	60.00	29.27	9.00	0.00	0.00	47.99	131.86	0.56			
93822.	1954.	7.	11.	19.00	35000.00	10.00	15.00	84.00	69.38	62.10	49.00	29.25	5.00	0.00	0.00	164.28	130.59	0.58			
93822.	1954.	7.	11.	20.00	35000.00	11.00	17.00	88.00	70.46	61.86	43.00	29.23	4.00	0.00	0.00	217.78	134.46	0.58			
93822.	1954.	7.	11.	21.00	35000.00	11.00	16.00	93.00	72.36	62.65	38.00	29.21	4.00	0.00	0.00	220.90	141.99	0.60			
93822.	1954.	7.	11.	22.00	35000.00	10.00	19.00	96.00	73.32	62.83	35.00	29.21	1.00	0.00	0.00	290.48	143.03	0.60			
93822.	1954.	7.	11.	23.00	35000.00	11.00	16.00	97.00	72.67	61.02	32.00	29.19	0.00	0.00	0.00	302.91	144.34	0.57			
93822.	1954.	7.	12.	0.00	35000.00	12.00	16.00	100.00	74.84	63.62	32.00	29.17	0.00	0.00	0.00	281.45	149.06	0.62			
93822.	1954.	7.	12.	1.00	35000.00	13.00	13.00	103.00	75.99	64.26	30.00	29.16	1.00	0.00	0.00	261.97	154.18	0.64			
93822.	1954.	7.	12.	2.00	35000.00	14.00	12.00	105.00	76.32	63.87	28.00	29.15	1.00	0.00	0.00	219.99	157.50	0.63			
93822.	1954.	7.	12.	3.00	35000.00	16.00	14.00	105.00	77.41	65.98	30.00	29.14	2.00	0.00	0.00	216.17	158.30	0.67			
93822.	1954.	7.	12.	4.00	35000.00	16.00	13.00	103.00	77.53	67.16	33.00	29.14	1.00	0.00	0.00	109.20	154.18	0.70			
93822.	1954.	7.	12.	5.00	35000.00	16.00	10.00	100.00	79.50	71.94	42.00	29.14	0.00	0.00	0.00	50.49	149.06	0.81			
93822.	1954.	7.	12.	6.00	35000.00	16.00	13.00	97.00	77.14	69.25	42.00	29.15	0.00	0.00	0.00	45.43	144.34	0.74			
93822.	1954.	7.	12.	7.00	35000.00	16.00	8.00	93.00	78.61	73.33	54.00	29.16	0.00	0.00	0.00	0.00	138.23	0.85			
93822.	1954.	7.	12.	8.00	35000.00	1.00	7.00	91.00	78.67	74.21	59.00	29.18	0.00	0.00	0.00	0.00	135.26	0.87			
93822.	1954.	7.	12.	9.00	35000.00	1.00	6.00	89.00	78.91	75.34	65.00	29.20	0.00	0.00	0.00	0.00	132.34	0.90			
93822.	1954.	7.	12.	10.00	35000.00	1.00	5.00	86.00	77.77	74.77	70.00	29.20	0.00	0.00	0.00	0.00	128.06	0.88			
93822.	1954.	7.	12.	11.00	35000.00	2.00	4.00	85.00	77.74	75.11	73.00	29.20	0.00	0.00	0.00	0.00	126.66	0.89			
93822.	1954.	7.	12.	12.00	35000.00	2.00	4.00	82.00	76.36	74.25	78.00	29.20	1.00	0.00	0.00	0.00	122.74	0.86			
93822.	1954.	7.	12.	13.00	35000.00	2.00	5.00	81.00	75.70	73.67	79.00	29.20	1.00	0.00	0.00	0.00	121.39	0.85			
93822.	1954.	7.	12.	14.00	35000.00	2.00	7.00	78.00	74.15	72.62	84.00	29.22	0.00	0.00	0.00	0.00	117.20	0.82			
93822.	1954.	7.	12.	15.00	35000.00	1.00	4.00	76.00	72.49	71.01	85.00	29.24	0.00	0.00	0.00	0.00	114.61	0.77			
93822.	1954.	7.	12.	16.00	35000.00	1.00	5.00	75.00	72.25	71.08	88.00	29.24	7.00	0.00	0.00	0.00	122.78	0.78			
93822.	1954.	7.	12.	17.00	35000.00	1.00	9.00	75.00	70.81	68.95	82.00	29.25	7.00	0.00	0.00	44.63	122.78	0.72			

30dayevap.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.	
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F) (%)	(in Hg) Cov(.1)
93822.	1954.	7.	12.	18.00	35000.00	2.00	6.00	76.00	70.25	67.64	76.00	29.25	6.00	0.00	0.00	51.08	121.63	0.69	
93822.	1954.	7.	12.	19.00	35000.00	3.00	4.00	80.00	72.33	69.02	70.00	29.26	7.00	0.00	0.00	161.78	129.82	0.73	
93822.	1954.	7.	12.	20.00	35000.00	2.00	6.00	83.00	73.88	70.10	66.00	29.28	9.00	0.00	0.00	208.28	140.95	0.76	
93822.	1954.	7.	12.	21.00	35000.00	1.00	10.00	88.00	76.41	71.91	60.00	29.29	10.00	0.00	0.00	192.75	153.15	0.81	
93822.	1954.	7.	12.	22.00	35000.00	1.00	8.00	89.00	75.94	70.74	56.00	29.28	10.00	0.00	0.00	253.04	154.83	0.78	
93822.	1954.	7.	12.	23.00	35000.00	3.00	9.00	93.00	74.02	65.65	42.00	29.29	10.00	0.00	0.00	259.56	161.73	0.66	
93822.	1954.	7.	13.	0.00	35000.00	2.00	11.00	93.00	74.02	65.66	42.00	29.28	9.00	0.00	0.00	261.85	157.26	0.66	
93822.	1954.	7.	13.	1.00	30000.00	3.00	10.00	95.00	73.90	64.42	38.00	29.27	6.00	0.00	0.00	253.55	149.90	0.63	
93822.	1954.	7.	13.	2.00	35000.00	4.00	9.00	98.00	74.81	64.58	35.00	29.24	5.00	0.00	0.00	214.94	152.10	0.64	
93822.	1954.	7.	13.	3.00	25000.00	4.00	7.00	100.00	75.82	65.46	34.00	29.22	7.00	0.00	0.00	207.95	161.48	0.66	
93822.	1954.	7.	13.	4.00	35000.00	4.00	3.00	98.00	74.34	63.71	34.00	29.21	8.00	0.00	0.00	102.87	161.77	0.62	
93822.	1954.	7.	13.	5.00	35000.00	8.00	6.00	99.00	76.02	66.32	36.00	29.20	6.00	0.00	0.00	47.31	156.50	0.68	
93822.	1954.	7.	13.	6.00	35000.00	8.00	6.00	97.00	75.41	66.19	38.00	29.19	6.00	0.00	0.00	45.39	153.17	0.67	
93822.	1954.	7.	13.	7.00	35000.00	13.00	4.00	92.00	75.55	68.80	48.00	29.19	4.00	0.00	0.00	0.00	140.45	0.73	
93822.	1954.	7.	13.	8.00	35000.00	12.00	5.00	86.00	74.67	70.03	60.00	29.21	4.00	0.00	0.00	0.00	131.54	0.76	
93822.	1954.	7.	13.	9.00	35000.00	11.00	3.00	84.00	73.86	69.63	63.00	29.21	3.00	0.00	0.00	0.00	127.18	0.74	
93822.	1954.	7.	13.	10.00	35000.00	8.00	3.00	83.00	73.58	69.63	65.00	29.21	2.00	0.00	0.00	0.00	124.74	0.74	
93822.	1954.	7.	13.	11.00	35000.00	10.00	3.00	81.00	72.37	68.65	67.00	29.19	0.00	0.00	0.00	0.00	121.18	0.72	
93822.	1954.	7.	13.	12.00	35000.00	9.00	4.00	81.00	72.66	69.10	68.00	29.18	0.00	0.00	0.00	0.00	121.18	0.73	
93822.	1954.	7.	13.	13.00	35000.00	12.00	3.00	78.00	71.31	68.36	73.00	29.18	0.00	0.00	0.00	0.00	117.20	0.71	
93822.	1954.	7.	13.	14.00	35000.00	9.00	3.00	78.00	71.31	68.36	73.00	29.18	0.00	0.00	0.00	0.00	117.20	0.71	
93822.	1954.	7.	13.	15.00	35000.00	10.00	8.00	79.00	71.96	68.91	72.00	29.16	0.00	0.00	0.00	0.00	118.52	0.72	
93822.	1954.	7.	13.	16.00	35000.00	10.00	10.00	79.00	71.69	68.48	71.00	29.16	0.00	0.00	0.00	0.00	118.52	0.71	
93822.	1954.	7.	13.	17.00	35000.00	11.00	7.00	76.00	71.26	69.18	80.00	29.17	2.00	0.00	0.00	46.29	115.39	0.73	
93822.	1954.	7.	13.	18.00	35000.00	11.00	9.00	79.00	72.76	70.14	75.00	29.17	2.00	0.00	0.00	51.39	119.32	0.75	
93822.	1954.	7.	13.	19.00	35000.00	11.00	13.00	87.00	75.21	70.46	59.00	29.17	0.00	0.00	0.00	170.58	129.47	0.77	
93822.	1954.	7.	13.	20.00	35000.00	11.00	14.00	93.00	76.74	70.34	49.00	29.16	0.00	0.00	0.00	223.20	138.23	0.77	
93822.	1954.	7.	13.	21.00	35000.00	11.00	16.00	97.00	76.71	68.51	41.00	29.16	0.00	0.00	0.00	214.70	144.34	0.73	
93822.	1954.	7.	13.	22.00	35000.00	12.00	12.00	100.00	77.69	68.85	38.00	29.15	0.00	0.00	0.00	289.84	149.06	0.74	
93822.	1954.	7.	13.	23.00	35000.00	12.00	15.00	104.00	78.77	68.95	34.00	29.14	0.00	0.00	0.00	297.00	155.57	0.74	
93822.	1954.	7.	14.	0.00	35000.00	12.00	14.00	106.00	77.02	64.73	28.00	29.12	0.00	0.00	0.00	280.99	158.91	0.65	
93822.	1954.	7.	14.	1.00	35000.00	14.00	10.00	109.00	76.72	62.57	24.00	29.10	0.00	0.00	0.00	259.62	164.03	0.61	
93822.	1954.	7.	14.	2.00	35000.00	12.00	14.00	111.00	75.46	58.69	20.00	29.09	0.00	0.00	0.00	217.60	167.52	0.54	
93822.	1954.	7.	14.	3.00	35000.00	15.00	13.00	110.00	75.48	59.35	21.00	29.09	0.00	0.00	0.00	210.96	165.77	0.55	
93822.	1954.	7.	14.	4.00	35000.00	16.00	17.00	105.00	77.40	65.98	30.00	29.10	0.00	0.00	0.00	108.82	157.23	0.67	
93822.	1954.	7.	14.	5.00	35000.00	16.00	17.00	101.00	79.84	72.09	41.00	29.10	0.00	0.00	0.00	49.54	150.67	0.82	
93822.	1954.	7.	14.	6.00	35000.00	16.00	16.00	97.00	80.03	74.01	49.00	29.11	0.00	0.00	0.00	44.99	144.34	0.87	
93822.	1954.	7.	14.	7.00	35000.00	1.00	14.00	91.00	77.63	72.60	56.00	29.13	0.00	0.00	0.00	0.00	135.26	0.83	
93822.	1954.	7.	14.	8.00	35000.00	16.00	17.00	87.00	76.50	72.47	63.00	29.18	0.00	0.00	0.00	0.00	129.47	0.82	
93822.	1954.	7.	14.	9.00	35000.00	2.00	13.00	84.00	70.70	64.43	53.00	29.24	0.00	0.00	0.00	0.00	125.27	0.63	
93822.	1954.	7.	14.	10.00	12000.00	2.00	12.00	82.00	70.59	65.26	58.00	29.25	10.00	0.00	0.00	0.00	143.36	0.64	
93822.	1954.	7.	14.	11.00	35000.00	2.00	13.00	80.00	69.76	64.89	61.00	29.25	0.00	0.00	0.00	0.00	119.84	0.63	
93822.	1954.	7.	14.	12.00	35000.00	4.00	20.00	77.00	68.80	64.84	67.00	29.26	0.00	0.00	0.00	0.00	115.90	0.63	
93822.	1954.	7.	14.	13.00	35000.00	4.00	11.00	73.00	64.47	59.69	64.00	29.31	0.00	0.00	0.00	0.00	110.82	0.53	
93822.	1954.	7.	14.	14.00	35000.00	3.00	7.00	71.00	63.45	59.12	67.00	29.32	0.00	0.00	0.00	0.00	108.35	0.52	
93822.	1954.	7.	14.	15.00	35000.00	3.00	5.00	68.00	62.17	58.73	73.00	29.34	3.00	0.00	0.00	0.00	106.33	0.51	
93822.	1954.	7.	14.	16.00	15000.00	3.00	8.00	68.00	62.17	58.73	73.00	29.34	6.00	0.00	0.00	0.00	111.13	0.51	
93822.	1954.	7.	14.	17.00	15000.00	3.00	10.00	68.00	62.18	58.73	73.00	29.36	7.00	0.00	0.00	44.31	113.45	0.51	
93822.	1954.	7.	14.	18.00	35000.00	3.00	8.00	70.00	63.29	59.43	70.00	29.39	3.00	0.00	0.00	50.85	108.77	0.52	
93822.	1954.	7.	14.	19.00	35000.00	4.00	13.00	73.00	63.69	58.30	61.00	29.40	1.00	0.00	0.00	173.60	111.01	0.50	
93822.	1954.	7.	14.	20.00	35000.00	4.00	14.00	75.00	63.21	56.12	53.00	29.40	2.00	0.00	0.00	226.91	114.11	0.47	
93822.	1954.	7.	14.	21.00	35000.00	4.00	12.00	78.00	64.20	56.02	48.00	29.41	2.00	0.00	0.00	219.23	118.00	0.47	
93822.	1954.	7.	14.	22.00	35000.00	3.00	16.00	82.00	64.41	53.65	39.00	29.42	0.00	0.00	0.00	301.14	122.53	0.43	
93822.	1954.	7.	14.	23.00	35000.00	3.00	13.00	83.00	64.82	53.80	38.00	29.42	0.00	0.00	0.00	311.08	123.89	0.44	

30dayevap.txt																				
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.	
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(in Hg)	Cov(.1)
93822.	1954.	7.	15.	0.00	35000.00	4.00	12.00	85.00	65.59	54.00	36.00	29.40	0.00	0.00	0.00	280.75	126.66	0.44		
93822.	1954.	7.	15.	1.00	35000.00	4.00	12.00	86.00	65.95	54.07	35.00	29.40	0.00	0.00	0.00	274.56	128.06	0.44		
93822.	1954.	7.	15.	2.00	35000.00	3.00	11.00	85.00	64.45	51.51	33.00	29.40	0.00	0.00	0.00	232.71	126.66	0.40		
93822.	1954.	7.	15.	3.00	35000.00	3.00	14.00	85.00	64.45	51.51	33.00	29.40	0.00	0.00	0.00	210.80	126.66	0.40		
93822.	1954.	7.	15.	4.00	35000.00	3.00	9.00	86.00	64.79	51.50	32.00	29.39	0.00	0.00	0.00	115.02	128.06	0.40		
93822.	1954.	7.	15.	5.00	35000.00	3.00	10.00	85.00	64.45	51.51	33.00	29.40	0.00	0.00	0.00	52.12	126.66	0.40		
93822.	1954.	7.	15.	6.00	35000.00	3.00	7.00	84.00	65.21	53.91	37.00	29.41	0.00	0.00	0.00	44.74	125.27	0.44		
93822.	1954.	7.	15.	7.00	35000.00	3.00	7.00	80.00	64.54	55.33	44.00	29.42	0.00	0.00	0.00	0.00	119.84	0.46		
93822.	1954.	7.	15.	8.00	35000.00	4.00	7.00	76.00	64.05	57.04	53.00	29.43	0.00	0.00	0.00	0.00	114.61	0.48		
93822.	1954.	7.	15.	9.00	35000.00	4.00	9.00	74.00	63.21	56.77	56.00	29.44	0.00	0.00	0.00	0.00	112.07	0.48		
93822.	1954.	7.	15.	10.00	35000.00	4.00	10.00	72.00	61.52	54.91	56.00	29.45	0.00	0.00	0.00	0.00	109.58	0.45		
93822.	1954.	7.	15.	11.00	35000.00	5.00	8.00	70.00	60.85	55.01	60.00	29.47	0.00	0.00	0.00	0.00	107.13	0.45		
93822.	1954.	7.	15.	12.00	35000.00	5.00	6.00	68.00	59.60	54.06	62.00	29.47	1.00	0.00	0.00	0.00	104.90	0.43		
93822.	1954.	7.	15.	13.00	35000.00	5.00	7.00	66.00	57.87	52.19	62.00	29.48	1.00	0.00	0.00	0.00	102.54	0.40		
93822.	1954.	7.	15.	14.00	35000.00	5.00	6.00	66.00	57.17	50.80	59.00	29.50	1.00	0.00	0.00	0.00	102.54	0.38		
93822.	1954.	7.	15.	15.00	35000.00	5.00	4.00	65.00	57.00	51.25	62.00	29.50	1.00	0.00	0.00	0.00	101.38	0.39		
93822.	1954.	7.	15.	16.00	35000.00	5.00	4.00	62.00	55.66	50.99	68.00	29.51	2.00	0.00	0.00	0.00	98.45	0.38		
93822.	1954.	7.	15.	17.00	35000.00	4.00	4.00	61.00	56.00	52.39	74.00	29.52	1.00	0.00	0.00	47.33	96.83	0.40		
93822.	1954.	7.	15.	18.00	35000.00	4.00	3.00	64.00	56.79	51.63	65.00	29.52	1.00	0.00	0.00	49.52	100.22	0.39		
93822.	1954.	7.	15.	19.00	35000.00	3.00	4.00	71.00	59.63	51.89	52.00	29.52	0.00	0.00	0.00	175.41	108.35	0.40		
93822.	1954.	7.	15.	20.00	35000.00	4.00	6.00	74.00	59.24	48.64	42.00	29.52	0.00	0.00	0.00	231.39	112.07	0.36		
93822.	1954.	7.	15.	21.00	35000.00	4.00	6.00	76.00	56.98	41.15	30.00	29.52	0.00	0.00	0.00	213.74	114.61	0.27		
93822.	1954.	7.	15.	22.00	35000.00	3.00	5.00	78.00	57.00	38.96	26.00	29.53	4.00	0.00	0.00	290.85	120.39	0.25		
93822.	1954.	7.	15.	23.00	30000.00	4.00	7.00	80.00	57.99	39.55	25.00	29.52	6.00	0.00	0.00	293.70	127.18	0.26		
93822.	1954.	7.	16.	0.00	30000.00	3.00	6.00	82.00	58.15	37.73	22.00	29.50	8.00	0.00	0.00	269.51	135.86	0.24		
93822.	1954.	7.	16.	1.00	35000.00	3.00	6.00	85.00	60.92	42.57	24.00	29.49	5.00	0.00	0.00	261.00	132.04	0.29		
93822.	1954.	7.	16.	2.00	35000.00	16.00	3.00	85.00	60.50	41.39	23.00	29.47	5.00	0.00	0.00	220.69	132.04	0.28		
93822.	1954.	7.	16.	3.00	35000.00	3.00	6.00	87.00	60.49	39.17	20.00	29.44	3.00	0.00	0.00	216.26	131.45	0.26		
93822.	1954.	7.	16.	4.00	35000.00	4.00	12.00	87.00	60.48	39.17	20.00	29.40	5.00	0.00	0.00	108.55	134.97	0.26		
93822.	1954.	7.	16.	5.00	10000.00	4.00	9.00	87.00	62.20	44.23	24.00	29.37	7.00	0.00	0.00	47.72	140.26	0.31		
93822.	1954.	7.	16.	6.00	12000.00	4.00	6.00	87.00	62.63	45.36	25.00	29.40	8.00	0.00	0.00	30.02	143.56	0.33		
93822.	1954.	7.	16.	7.00	35000.00	5.00	5.00	82.00	62.28	48.91	33.00	29.42	1.00	0.00	0.00	0.00	122.74	0.37		
93822.	1954.	7.	16.	8.00	35000.00	4.00	8.00	77.00	60.61	49.23	39.00	29.43	0.00	0.00	0.00	0.00	115.90	0.37		
93822.	1954.	7.	16.	9.00	35000.00	5.00	5.00	74.00	60.40	51.18	46.00	29.44	0.00	0.00	0.00	0.00	112.07	0.39		
93822.	1954.	7.	16.	10.00	35000.00	5.00	6.00	73.00	60.16	51.47	48.00	29.44	0.00	0.00	0.00	0.00	110.82	0.40		
93822.	1954.	7.	16.	11.00	35000.00	6.00	6.00	71.00	59.62	51.89	52.00	29.42	0.00	0.00	0.00	0.00	108.35	0.40		
93822.	1954.	7.	16.	12.00	35000.00	6.00	6.00	72.00	59.08	49.98	47.00	29.42	0.00	0.00	0.00	0.00	109.58	0.37		
93822.	1954.	7.	16.	13.00	35000.00	6.00	5.00	68.00	57.64	50.19	54.00	29.41	0.00	0.00	0.00	0.00	104.72	0.38		
93822.	1954.	7.	16.	14.00	35000.00	6.00	4.00	68.00	57.89	50.71	55.00	29.41	0.00	0.00	0.00	0.00	104.72	0.38		
93822.	1954.	7.	16.	15.00	35000.00	6.00	4.00	66.00	56.92	50.33	58.00	29.41	1.00	0.00	0.00	0.00	102.54	0.38		
93822.	1954.	7.	16.	16.00	25000.00	7.00	5.00	65.00	56.76	50.80	61.00	29.40	7.00	0.00	0.00	0.00	109.64	0.38		
93822.	1954.	7.	16.	17.00	12000.00	6.00	6.00	66.00	57.86	52.19	62.00	29.40	7.00	0.00	0.00	43.30	110.89	0.40		
93822.	1954.	7.	16.	18.00	12000.00	6.00	3.00	68.00	58.87	52.67	59.00	29.40	9.00	0.00	0.00	26.64	119.15	0.41		
93822.	1954.	7.	16.	19.00	12000.00	8.00	9.00	72.00	59.90	51.71	50.00	29.38	8.00	0.00	0.00	160.53	121.50	0.40		
93822.	1954.	7.	16.	20.00	35000.00	8.00	8.00	77.00	61.86	51.98	43.00	29.38	4.00	0.00	0.00	220.37	119.05	0.40		
93822.	1954.	7.	16.	21.00	35000.00	8.00	12.00	85.00	66.32	55.56	38.00	29.38	4.00	0.00	0.00	218.49	130.10	0.46		
93822.	1954.	7.	16.	22.00	35000.00	8.00	10.00	87.00	65.90	53.25	33.00	29.38	5.00	0.00	0.00	282.40	134.97	0.43		
93822.	1954.	7.	16.	23.00	35000.00	8.00	6.00	90.00	67.24	54.04	31.00	29.37	6.00	0.00	0.00	287.51	141.98	0.44		
93822.	1954.	7.	17.	0.00	25000.00	11.00	5.00	91.00	66.64	51.95	28.00	29.36	8.00	0.00	0.00	269.25	149.97	0.41		
93822.	1954.	7.	17.	1.00	25000.00	7.00	5.00	93.00	67.56	52.60	27.00	29.32	7.00	0.00	0.00	250.73	149.74	0.42		
93822.	1954.	7.	17.	2.00	25000.00	9.00	10.00	92.00	68.21	54.81	30.00	29.29	7.00	0.00	0.00	212.27	148.13	0.46		
93822.	1954.	7.	17.	3.00	35000.00	8.00	15.00	93.00	67.08	51.51	26.00	29.25	10.00	0.00	0.00	188.52	161.73	0.41		
93822.	1954.	7.	17.	4.00	35000.00	8.00	13.00	95.00	69.38	55.35	28.00	29.23	9.00	0.00	0.00	101.17	160.71	0.47		
93822.	1954.	7.	17.	5.00	10000.00	8.00	10.00	94.00	68.68	54.50	28.00	29.22	9.00	0.00	0.00	45.11	158.98	0.45		

30dayevap.txt																					
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.		
Precip.						Radiat.	Radiat.	Wat. Vap.(in Hg)					(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(.1)
93822.	1954.	7.	17.	6.00	10000.00	9.00	9.00	92.00	69.50	57.59	33.00	29.22	10.00	0.00	0.00	18.33	159.98	0.50			
93822.	1954.	7.	17.	7.00	10000.00	8.00	6.00	91.00	68.77	56.72	33.00	29.22	8.00	0.00	0.00	0.00	149.97	0.49			
93822.	1954.	7.	17.	8.00	35000.00	8.00	12.00	89.00	68.53	57.52	36.00	29.22	5.00	0.00	0.00	0.00	137.96	0.50			
93822.	1954.	7.	17.	9.00	12000.00	7.00	8.00	87.00	68.19	58.09	39.00	29.22	8.00	0.00	0.00	0.00	143.56	0.51			
93822.	1954.	7.	17.	10.00	12000.00	8.00	12.00	86.00	67.05	56.45	38.00	29.22	6.00	0.00	0.00	0.00	135.89	0.48			
93822.	1954.	7.	17.	11.00	35000.00	8.00	10.00	85.00	66.66	56.32	39.00	29.21	2.00	0.00	0.00	0.00	127.52	0.48			
93822.	1954.	7.	17.	12.00	35000.00	8.00	13.00	84.00	66.25	56.16	40.00	29.19	0.00	0.00	0.00	0.00	125.27	0.47			
93822.	1954.	7.	17.	13.00	35000.00	8.00	12.00	83.00	66.52	57.37	43.00	29.18	4.00	0.00	0.00	0.00	127.26	0.49			
93822.	1954.	7.	17.	14.00	35000.00	9.00	11.00	82.00	66.74	58.43	46.00	29.16	0.00	0.00	0.00	0.00	122.53	0.51			
93822.	1954.	7.	17.	15.00	35000.00	9.00	10.00	80.00	66.73	59.61	51.00	29.16	3.00	0.00	0.00	0.00	121.68	0.53			
93822.	1954.	7.	17.	16.00	35000.00	10.00	11.00	80.00	68.26	62.35	56.00	29.16	5.00	0.00	0.00	0.00	124.94	0.58			
93822.	1954.	7.	17.	17.00	35000.00	10.00	12.00	79.00	68.88	63.95	61.00	29.16	5.00	0.00	0.00	42.01	123.55	0.61			
93822.	1954.	7.	17.	18.00	35000.00	10.00	11.00	80.00	69.75	64.89	61.00	29.15	5.00	0.00	0.00	48.13	124.94	0.63			
93822.	1954.	7.	17.	19.00	35000.00	11.00	10.00	85.00	73.16	68.07	58.00	29.15	4.00	0.00	0.00	162.25	130.10	0.71			
93822.	1954.	7.	17.	20.00	35000.00	14.00	7.00	91.00	75.10	68.51	49.00	29.17	7.00	0.00	0.00	206.59	146.52	0.72			
93822.	1954.	7.	17.	21.00	35000.00	11.00	6.00	93.00	74.80	67.06	44.00	29.17	7.00	0.00	0.00	209.55	149.74	0.69			
93822.	1954.	7.	17.	22.00	35000.00	10.00	7.00	96.00	75.93	67.61	41.00	29.16	5.00	0.00	0.00	276.44	148.86	0.70			
93822.	1954.	7.	17.	23.00	35000.00	13.00	11.00	101.00	77.04	67.22	35.00	29.17	4.00	0.00	0.00	285.85	154.77	0.70			
93822.	1954.	7.	18.	0.00	35000.00	15.00	5.00	101.00	76.55	66.33	34.00	29.15	4.00	0.00	0.00	286.84	154.77	0.68			
93822.	1954.	7.	18.	1.00	35000.00	15.00	10.00	103.00	76.50	65.25	31.00	29.14	3.00	0.00	0.00	254.70	156.28	0.66			
93822.	1954.	7.	18.	2.00	35000.00	1.00	5.00	103.00	77.02	66.23	32.00	29.14	3.00	0.00	0.00	214.73	156.28	0.68			
93822.	1954.	7.	18.	3.00	35000.00	1.00	7.00	103.00	77.02	66.23	32.00	29.14	3.00	0.00	0.00	215.86	156.28	0.68			
93822.	1954.	7.	18.	4.00	35000.00	2.00	10.00	103.00	75.98	64.26	30.00	29.14	2.00	0.00	0.00	105.65	154.97	0.64			
93822.	1954.	7.	18.	5.00	35000.00	1.00	11.00	102.00	75.27	63.40	30.00	29.13	1.00	0.00	0.00	47.03	152.55	0.62			
93822.	1954.	7.	18.	6.00	35000.00	1.00	6.00	99.00	76.01	66.32	36.00	29.14	1.00	0.00	0.00	44.49	147.73	0.68			
93822.	1954.	7.	18.	7.00	35000.00	1.00	13.00	94.00	75.59	67.96	44.00	29.16	0.00	0.00	0.00	0.00	139.74	0.71			
93822.	1954.	7.	18.	8.00	35000.00	1.00	8.00	88.00	74.39	68.70	54.00	29.17	0.00	0.00	0.00	0.00	130.90	0.72			
93822.	1954.	7.	18.	9.00	35000.00	3.00	5.00	84.00	73.86	69.63	63.00	29.19	0.00	0.00	0.00	0.00	125.27	0.74			
93822.	1954.	7.	18.	10.00	35000.00	2.00	6.00	82.00	72.98	69.15	66.00	29.19	0.00	0.00	0.00	0.00	122.53	0.73			
93822.	1954.	7.	18.	11.00	35000.00	3.00	4.00	80.00	72.60	69.44	71.00	29.21	2.00	0.00	0.00	0.00	120.66	0.74			
93822.	1954.	7.	18.	12.00	35000.00	2.00	3.00	79.00	72.50	69.73	74.00	29.21	2.00	0.00	0.00	0.00	119.32	0.74			
93822.	1954.	7.	18.	13.00	35000.00	2.00	4.00	76.00	71.75	69.93	82.00	29.20	1.00	0.00	0.00	0.00	114.81	0.75			
93822.	1954.	7.	18.	14.00	35000.00	3.00	3.00	76.00	71.75	69.93	82.00	29.21	2.00	0.00	0.00	0.00	115.39	0.75			
93822.	1954.	7.	18.	15.00	35000.00	3.00	3.00	75.00	71.77	70.39	86.00	29.21	0.00	0.00	0.00	0.00	113.34	0.76			
93822.	1954.	7.	18.	16.00	35000.00	3.00	4.00	74.00	71.05	69.75	87.00	29.22	0.00	0.00	0.00	0.00	112.07	0.74			
93822.	1954.	7.	18.	17.00	35000.00	3.00	4.00	73.00	71.00	70.12	91.00	29.22	0.00	0.00	0.00	44.35	110.82	0.75			
93822.	1954.	7.	18.	18.00	35000.00	4.00	5.00	75.00	72.48	71.43	89.00	29.22	0.00	0.00	0.00	46.56	113.34	0.78			
93822.	1954.	7.	18.	19.00	35000.00	4.00	5.00	81.00	74.89	72.48	76.00	29.24	0.00	0.00	0.00	169.94	121.18	0.82			
93822.	1954.	7.	18.	20.00	35000.00	5.00	6.00	86.00	76.55	72.95	66.00	29.24	1.00	0.00	0.00	221.90	128.27	0.83			
93822.	1954.	7.	18.	21.00	35000.00	4.00	7.00	90.00	76.78	71.67	56.00	29.23	8.00	0.00	0.00	203.89	148.35	0.80			
93822.	1954.	7.	18.	22.00	30000.00	2.00	4.00	93.00	76.37	69.71	48.00	29.25	9.00	0.00	0.00	266.20	157.26	0.75			
93822.	1954.	7.	18.	23.00	30000.00	16.00	14.00	93.00	76.38	69.71	48.00	29.27	10.00	0.00	0.00	257.58	161.73	0.75			

worstday-9am.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)		Radiat.	Radiat.	Wat. Vap.(in Hg)								
0.	1900.	7.	1.		.00	35000.00	12.00	5.00	88.00	79.59	76.69	70.00	29.32	4.00	.00	.00	219.49	134.46	.94
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	3.00	.00	35000.00	15.00	8.00	91.00	79.71	75.76	62.00	29.28	5.00	.00	.00	285.50	141.00	.91
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	6.00	.00	35000.00	12.00	8.00	94.00	78.72	73.09	52.00	29.24	1.00	.00	.00	213.84	139.97	.84
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	9.00	.00	35000.00	11.00	6.00	91.00	76.20	70.32	52.00	29.18	.00	.00	.00	44.74	135.26	.77
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	12.00	.00	35000.00	10.00	3.00	82.00	75.26	72.63	74.00	29.23	5.00	.00	.00	.00	127.74	.82
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	15.00	.00	35000.00	.00	.00	78.00	73.65	71.88	82.00	29.25	1.00	.00	.00	.00	117.40	.80
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	18.00	.00	35000.00	.00	.00	74.00	72.66	72.10	94.00	29.23	4.00	.00	.00	.00	115.12	.80
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.	21.00	.00	35000.00	9.00	3.00	74.00	72.66	72.10	94.00	29.23	5.00	.00	.00	49.64	116.83	.80
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	35000.00	12.00	7.00	85.00	77.45	74.68	72.00	29.23	1.00	.00	.00	216.83	126.87	.88
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	3.00	.00	35000.00	12.00	8.00	90.00	76.78	71.67	56.00	29.23	8.00	.00	.00	269.51	148.35	.80
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	6.00	.00	7500.00	15.00	11.00	82.00	72.69	68.68	65.00	29.20	10.00	.00	.00	69.52	143.36	.72
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	9.00	.00	35000.00	12.00	4.00	81.00	75.70	73.67	79.00	29.18	8.00	.00	.00	42.72	134.36	.85
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	12.00	.00	35000.00	14.00	4.00	76.00	75.32	75.06	97.00	29.23	4.00	.00	.00	.00	117.73	.88
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	15.00	.00	35000.00	15.00	5.00	71.00	68.83	67.81	90.00	29.24	1.00	.00	.00	.00	108.53	.69
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	18.00	.00	35000.00	13.00	3.00	67.00	66.39	66.06	97.00	29.23	3.00	.00	.00	.00	105.12	.65
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.	21.00	.00	35000.00	13.00	4.00	70.00	68.51	67.79	93.00	29.25	1.00	.00	.00	48.77	107.31	.69
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	35000.00	14.00	9.00	81.00	72.38	68.65	67.00	29.23	.00	.00	.00	213.24	121.18	.72
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	3.00	.00	35000.00	14.00	15.00	83.00	69.22	62.37	51.00	29.24	1.00	.00	.00	284.27	124.10	.58
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	3.	6.00	.00	35000.00	14.00	14.00	84.00	65.53	54.68	38.00	29.22	.00	.00	.00	210.44	125.27	.45
0.	1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(in Hg)	Cov(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)							
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		9.00	35000.00	14.00	11.00	81.00	64.62	54.89	42.00	29.20	.00	.00	.00	44.17	121.18	.45
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		12.00	35000.00	15.00	5.00	69.00	62.61	58.88	71.00	29.23	.00	.00	.00	.00	105.92	.51
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		15.00	35000.00	13.00	8.00	68.00	61.71	57.93	71.00	29.24	.00	.00	.00	.00	104.72	.49
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		18.00	35000.00	15.00	7.00	64.00	60.20	57.84	81.00	29.23	.00	.00	.00	.00	100.05	.49
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		21.00	35000.00	14.00	7.00	67.00	62.37	59.67	78.00	29.25	5.00	.00	.00	48.13	107.94	.52
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	3.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	35000.00	14.00	8.00	78.00	66.58	60.49	56.00	29.27	.00	.00	.00	212.73	117.20	.54
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		3.00	35000.00	15.00	13.00	84.00	66.26	56.16	40.00	29.26	.00	.00	.00	279.95	125.27	.47
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		6.00	35000.00	15.00	10.00	84.00	65.54	54.68	38.00	29.26	1.00	.00	.00	213.27	125.48	.45
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		9.00	35000.00	15.00	8.00	81.00	64.63	54.89	42.00	29.25	.00	.00	.00	43.85	121.18	.45
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		12.00	35000.00	.00	.00	70.00	64.00	60.65	73.00	29.26	3.00	.00	.00	.00	108.77	.54
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		15.00	35000.00	.00	.00	64.00	61.43	59.89	87.00	29.30	1.00	.00	.00	.00	100.22	.53
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		18.00	35000.00	.00	.00	62.00	60.10	58.90	90.00	29.31	1.00	.00	.00	.00	97.95	.51
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		21.00	35000.00	.00	.00	64.00	61.43	59.89	87.00	29.32	1.00	.00	.00	47.23	100.22	.53
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	4.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		.00	35000.00	9.00	5.00	80.00	67.67	61.28	54.00	29.30	2.00	.00	.00	217.16	120.66	.56
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		3.00	35000.00	8.00	5.00	85.00	66.67	56.32	39.00	29.28	.00	.00	.00	279.66	126.66	.48
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		6.00	35000.00	10.00	11.00	87.00	67.81	57.34	38.00	29.24	1.00	.00	.00	213.05	129.69	.49
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		9.00	35000.00	11.00	5.00	83.00	67.55	59.33	46.00	29.21	4.00	.00	.00	44.59	127.26	.53
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		12.00	25000.00	9.00	6.00	75.00	66.75	62.49	66.00	29.18	9.00	.00	.00	.00	128.94	.58
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		15.00	25000.00	11.00	6.00	75.00	66.21	61.58	64.00	29.16	8.00	.00	.00	.00	125.67	.56

worstday-9am.txt

Station (feet)	Year	Month	Day	Hour	Ceiling Temp(F)	Wind Temp(F) (%)	Wind Cov.(I)	Wind Precip.	DryBulb	WetBulb Radiat.	DewPt. Radiat.	Humidity Wat. Vap.(in Hg)	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
0. 1900.	7.	5.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		18.00	25000.00	9.00	4.00	73.00	65.73	61.88	69.00	29.15	10.00	.00	.00	.00	129.66	.57	.00
0. 1900.	7.	5.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.		21.00	11000.00	10.00	6.00	72.00	66.54	63.76	76.00	29.16	10.00	.00	.00	19.00	128.20	.61	.00
0. 1900.	7.	5.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	5.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	11000.00	11.00	6.00	72.00	69.12	67.78	87.00	29.17	10.00	.00	.00	87.84	128.20	.69
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		3.00	6000.00	9.00	6.00	72.00	69.80	68.80	90.00	29.17	10.00	.00	.00	92.20	128.20	.72	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		6.00	1900.00	9.00	7.00	73.00	70.77	69.79	90.00	29.16	10.00	.00	.00	69.24	129.66	.74	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		9.00	35000.00	9.00	7.00	75.00	70.80	68.95	82.00	29.14	5.00	.00	.00	43.88	118.15	.72	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		12.00	13000.00	6.00	4.00	70.00	69.37	69.06	97.00	29.16	8.00	.00	.00	.00	118.78	.72	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		15.00	700.00	15.00	3.00	69.00	69.00	68.97	100.00	29.17	10.00	.00	.00	.00	123.93	.72	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		18.00	300.00	15.00	6.00	68.00	68.00	67.97	100.00	29.18	10.00	.00	.00	.00	122.53	.69	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.		21.00	200.00	1.00	6.00	67.00	67.00	66.96	100.00	29.22	10.00	.00	.00	14.84	121.14	.67	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	6.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	35000.00	1.00	4.00	78.00	71.05	67.95	72.00	29.24	3.00	.00	.00	216.75	119.00	.70
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		3.00	35000.00	2.00	4.00	83.00	69.22	62.37	51.00	29.24	5.00	.00	.00	.00	283.78	129.16	.58
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		6.00	35000.00	9.00	7.00	85.00	68.81	60.50	45.00	29.21	6.00	.00	.00	.00	210.32	134.41	.55
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		9.00	35000.00	11.00	4.00	83.00	69.21	62.37	51.00	29.18	5.00	.00	.00	.00	43.49	129.16	.58
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		12.00	35000.00	8.00	5.00	74.00	68.40	65.70	76.00	29.17	5.00	.00	.00	.00	116.83	.65	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		15.00	35000.00	9.00	6.00	72.00	67.26	64.91	79.00	29.18	6.00	.00	.00	.00	116.28	.63	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		18.00	35000.00	9.00	5.00	71.00	67.48	65.75	84.00	29.15	2.00	.00	.00	.00	109.08	.65	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.		21.00	35000.00	8.00	7.00	71.00	68.83	67.81	90.00	29.12	10.00	.00	.00	.00	39.55	126.77	.69
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	7.			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)		Radiat.	Radiat.	Wat. Vap.(in Hg)							
0. 1900.	7.	8.		.00	25000.00	9.00	5.00	76.00	73.21	72.07	88.00	29.10	10.00	.00	.00	188.62	134.10	.80
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		3.00	25000.00	13.00	3.00	80.00	74.22	71.91	77.00	29.07	8.00	.00	.00	267.81	132.88	.80
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		6.00	25000.00	12.00	7.00	82.00	73.26	69.60	67.00	29.06	7.00	.00	.00	206.13	132.74	.74
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		9.00	15000.00	11.00	7.00	81.00	73.78	70.83	72.00	29.03	8.00	.00	.00	30.64	134.36	.77
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		12.00	35000.00	10.00	5.00	74.00	71.74	70.78	90.00	29.08	3.00	.00	.00	.00	113.79	.77
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		15.00	35000.00	14.00	3.00	71.00	71.00	70.98	100.00	29.10	2.00	.00	.00	.00	109.08	.77
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		18.00	35000.00	8.00	3.00	70.00	70.00	69.98	100.00	29.08	.00	.00	.00	.00	107.13	.74
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		21.00	35000.00	.00	.00	72.00	72.00	71.99	100.00	29.08	10.00	.00	.00	38.80	128.20	.80
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	8.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	2700.00	10.00	5.00	69.00	68.37	68.06	97.00	29.14	10.00	.00	.00	69.30	123.93	.70
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		3.00	25000.00	11.00	5.00	78.00	72.88	70.75	79.00	29.13	9.00	.00	.00	259.21	133.34	.77
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		6.00	35000.00	4.00	7.00	84.00	73.84	69.64	63.00	29.07	9.00	.00	.00	194.58	142.52	.74
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		9.00	25000.00	11.00	4.00	82.00	73.84	70.50	69.00	29.08	8.00	.00	.00	40.29	135.86	.76
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		12.00	15000.00	12.00	5.00	76.00	73.92	73.10	91.00	29.11	10.00	.00	.00	.00	134.10	.83
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		15.00	35000.00	11.00	4.00	71.00	69.49	68.79	93.00	29.10	3.00	.00	.00	.00	110.00	.72
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		18.00	35000.00	.00	.00	67.00	67.00	66.96	100.00	29.09	.00	.00	.00	.00	103.54	.67
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		21.00	35000.00	.00	.00	69.00	67.53	66.80	93.00	29.13	2.00	.00	.00	43.45	106.64	.67
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	9.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	10.		.00	35000.00	12.00	6.00	79.00	72.50	69.73	74.00	29.16	7.00	.00	.00	206.25	128.39	.74
0. 1900.	7.	10.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	10.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	10.		3.00	35000.00	14.00	5.00	85.00	71.53	65.36	53.00	29.16	10.00	.00	.00	249.08	148.19	.65
0. 1900.	7.	10.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	10.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7.	10.		6.00	25000.00	10.00	7.00	83.00	73.57	69.63	65.00	29.14	10.00	.00	.00	186.94	144.95	.74
0. 1900.	7.	10.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(.1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)						
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	9.00	15000.00	12.00	11.00	80.00	73.41	70.70	74.00	29.11	10.00	.00	.00	.00	.00	20.51	140.22	.77
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	12.00	25000.00	13.00	3.00	71.00	68.16	66.79	87.00	29.13	8.00	.00	.00	.00	.00	.00	120.13	.67
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	15.00	35000.00	15.00	5.00	70.00	67.20	65.81	87.00	29.14	3.00	.00	.00	.00	.00	.00	108.77	.65
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	18.00	15000.00	9.00	3.00	69.00	68.37	68.06	97.00	29.15	10.00	.00	.00	.00	.00	.00	123.93	.70
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	21.00	35000.00	9.00	5.00	69.00	68.37	68.06	97.00	29.17	2.00	.00	.00	.00	42.57	106.64	.70	.70
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	35000.00	13.00	6.00	79.00	73.29	70.94	77.00	29.18	.00	.00	.00	.00	208.78	118.52	.77	.77
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	3.00	35000.00	12.00	5.00	87.00	73.21	67.21	53.00	29.18	3.00	.00	.00	.00	285.11	131.45	.69	.69
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	6.00	13000.00	12.00	8.00	85.00	73.48	68.58	59.00	29.18	9.00	.00	.00	.00	115.42	144.10	.72	.72
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	9.00	35000.00	11.00	4.00	80.00	74.22	71.91	77.00	29.14	4.00	.00	.00	.00	42.01	123.10	.80	.80
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	12.00	35000.00	9.00	5.00	72.00	69.12	67.78	87.00	29.17	1.00	.00	.00	.00	.00	109.76	.69	.69
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	15.00	25000.00	12.00	5.00	71.00	68.83	67.81	90.00	29.17	10.00	.00	.00	.00	.00	126.77	.69	.69
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	18.00	15000.00	7.00	5.00	67.00	66.39	66.06	97.00	29.16	10.00	.00	.00	.00	.00	121.14	.65	.65
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	21.00	35000.00	10.00	3.00	66.00	66.00	65.96	100.00	29.19	3.00	.00	.00	.00	41.81	103.93	.65	.65
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 11.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	.00	35000.00	11.00	6.00	77.00	70.66	67.80	74.00	29.18	5.00	.00	.00	.00	211.69	120.83	.70	.70
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	3.00	35000.00	10.00	7.00	86.00	73.04	67.40	55.00	29.19	6.00	.00	.00	.00	278.35	135.89	.69	.69
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	6.00	4500.00	11.00	4.00	88.00	75.40	70.34	57.00	29.14	6.00	.00	.00	.00	174.15	138.91	.77	.77
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	9.00	6000.00	11.00	7.00	83.00	75.04	71.90	70.00	29.15	9.00	.00	.00	.00	19.71	140.95	.80	.80
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	12.00	35000.00	8.00	3.00	75.00	72.01	70.74	87.00	29.19	1.00	.00	.00	.00	.00	113.53	.77	.77
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	15.00	35000.00	.00	.00	71.00	70.36	70.06	97.00	29.19	.00	.00	.00	.00	.00	.00	108.35	.75

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)		Radiat.	Radiat.	Wat. Vap.	(in Hg)						
0. 1900.	7. 12.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	18.00	35000.00	.00	.00	.00	.00	69.00	68.37	68.06	97.00	29.18	.00	.00	.00	.00	105.92	.70
0. 1900.	7. 12.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.	21.00	35000.00	.00	.00	.00	.00	70.00	69.37	69.06	97.00	29.18	.00	.00	.00	39.83	107.13	.72
0. 1900.	7. 12.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 12.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	35000.00	8.00	5.00	82.00	75.26	72.63	74.00	29.18	1.00	.00	.00	.00	210.54	122.74	.82
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	3.00	35000.00	9.00	15.00	89.00	77.60	73.37	61.00	29.16	1.00	.00	.00	.00	.00	280.92	132.56	.84
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	6.00	35000.00	9.00	15.00	90.00	77.80	73.28	59.00	29.08	3.00	.00	.00	.00	.00	213.20	135.84	.84
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	9.00	25000.00	9.00	12.00	86.00	77.76	74.77	70.00	29.05	10.00	.00	.00	.00	.00	35.81	149.83	.88
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	12.00	5500.00	8.00	12.00	82.00	76.09	73.86	77.00	29.08	10.00	.00	.00	.00	.00	.00	143.36	.85
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	15.00	35000.00	14.00	3.00	77.00	75.61	75.09	94.00	29.08	7.00	.00	.00	.00	.00	.00	125.56	.88
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	18.00	35000.00	15.00	6.00	71.00	70.36	70.06	97.00	29.10	.00	.00	.00	.00	.00	.00	108.35	.75
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.	21.00	35000.00	.00	.00	71.00	69.49	68.79	93.00	29.17	2.00	.00	.00	.00	.00	39.83	109.08	.72
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 13.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	35000.00	15.00	7.00	82.00	73.85	70.50	69.00	29.22	1.00	.00	.00	.00	209.89	122.74	.76
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	3.00	35000.00	16.00	9.00	88.00	72.29	65.14	48.00	29.25	.00	.00	.00	.00	.00	276.53	130.90	.64
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	6.00	35000.00	15.00	13.00	89.00	72.75	65.42	47.00	29.26	.00	.00	.00	.00	.00	207.27	132.34	.65
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	9.00	35000.00	15.00	6.00	86.00	72.38	66.28	53.00	29.29	.00	.00	.00	.00	.00	39.43	128.06	.67
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	12.00	35000.00	.00	.00	75.00	71.54	70.03	85.00	29.34	.00	.00	.00	.00	.00	.00	113.34	.75
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	15.00	35000.00	.00	.00	70.00	68.51	67.79	93.00	29.36	.00	.00	.00	.00	.00	.00	107.13	.69
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	18.00	35000.00	.00	.00	67.00	66.39	66.06	97.00	29.40	.00	.00	.00	.00	.00	.00	103.54	.65
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.	21.00	35000.00	.00	.00	70.00	68.51	67.79	93.00	29.43	.00	.00	.00	.00	.00	38.00	107.13	.69
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 14.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PROJECT NO. 11333-297

worstday-9am.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
(feet)	Direc.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(in Hg)	Cov(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)								
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	9.00	35000.00	10.00	6.00	87.00	76.51	72.47	63.00	29.31	9.00	.00	.00	35.05	147.30	.82	
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	12.00	25000.00	9.00	5.00	81.00	75.70	73.67	79.00	29.33	7.00	.00	.00	.00	131.27	.85	
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	15.00	12000.00	15.00	6.00	75.00	70.81	68.95	82.00	29.36	6.00	.00	.00	.00	120.27	.72	
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	18.00	4200.00	12.00	8.00	73.00	70.09	68.77	87.00	29.36	10.00	.00	.00	.00	129.66	.72	
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	21.00	8000.00	12.00	3.00	70.00	69.37	69.06	97.00	29.34	10.00	.00	.00	11.61	125.34	.72	
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	17.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	13000.00	13.00	5.00	77.00	72.71	70.90	82.00	29.38	8.00	.00	.00	137.88	128.51	.77	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	3.00	13000.00	.00	.00	81.00	73.80	70.83	72.00	29.39	9.00	.00	.00	152.24	137.87	.77	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	6.00	25000.00	2.00	6.00	86.00	75.00	70.54	61.00	29.33	9.00	.00	.00	191.40	145.69	.77	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	9.00	13000.00	15.00	5.00	82.00	74.71	71.79	72.00	29.34	10.00	.00	.00	15.35	143.36	.80	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	12.00	13000.00	.00	.00	73.00	69.39	67.71	84.00	29.36	10.00	.00	.00	.00	129.66	.69	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	15.00	13000.00	9.00	3.00	72.00	70.69	70.11	94.00	29.36	10.00	.00	.00	.00	128.20	.75	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	18.00	13000.00	10.00	5.00	71.00	70.36	70.06	97.00	29.37	10.00	.00	.00	.00	126.77	.75	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	21.00	11000.00	9.00	3.00	71.00	71.00	70.98	100.00	29.38	10.00	.00	.00	14.21	126.77	.77	
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	18.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	.00	8000.00	9.00	4.00	73.00	72.34	72.06	97.00	29.39	10.00	.00	.00	67.18	129.66	.80	
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	3.00	8000.00	10.00	4.00	75.00	73.64	73.09	94.00	29.39	10.00	.00	.00	90.55	132.60	.83	
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	6.00	13000.00	3.00	6.00	77.00	74.18	73.06	88.00	29.33	10.00	.00	.00	85.11	135.61	.83	
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	9.00	5500.00	6.00	8.00	74.00	71.75	70.78	90.00	29.31	10.00	.00	.00	11.99	131.12	.77	
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	12.00	8000.00	7.00	5.00	73.00	72.34	72.06	97.00	29.33	10.00	.00	.00	.00	129.66	.80	
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	19.	15.00	25000.00	9.00	4.00	72.00	71.35	71.06	97.00	29.34	10.00	.00	.00	.00	128.20	.77	

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(I)	Precip.	Radiat.	Radiat.	Wat. Vap.	(in Hg)					
0. 1900.	7. 19.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 19.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 19.	18.00	8000.00	5.00	3.00	72.00	72.00	71.99	100.00	29.33	10.00	.00	.00	.00	.00	128.20	.80	.00
0. 1900.	7. 19.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 19.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 19.	21.00	8000.00	3.00	4.00	72.00	71.35	71.06	97.00	29.33	10.00	.00	.00	.00	.00	10.98	128.20	.77
0. 1900.	7. 19.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 19.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	400.00	6.00	5.00	75.00	74.32	74.06	97.00	29.35	10.00	.00	.00	.00	66.95	132.60	.85
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	3.00	1500.00	11.00	8.00	78.00	74.41	72.98	85.00	29.35	10.00	.00	.00	.00	.00	90.39	137.13	.83
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	6.00	10000.00	9.00	4.00	77.00	75.61	75.09	94.00	29.33	10.00	.00	.00	.00	.00	84.91	135.61	.88
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	9.00	13000.00	10.00	4.00	77.00	75.61	75.09	94.00	29.33	10.00	.00	.00	.00	.00	14.79	135.61	.88
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	12.00	9000.00	8.00	4.00	75.00	75.00	75.00	100.00	29.33	10.00	.00	.00	.00	.00	.00	132.60	.88
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	15.00	15000.00	1.00	3.00	74.00	74.00	73.99	100.00	29.35	10.00	.00	.00	.00	.00	.00	131.12	.85
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	18.00	1100.00	.00	.00	73.00	73.00	72.99	100.00	29.33	10.00	.00	.00	.00	.00	.00	129.66	.82
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.	21.00	8500.00	8.00	5.00	73.00	73.00	72.99	100.00	29.36	10.00	.00	.00	.00	.00	10.66	129.66	.82
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 20.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	13000.00	16.00	6.00	77.00	74.90	74.09	91.00	29.36	10.00	.00	.00	.00	83.89	135.61	.86
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	3.00	9000.00	7.00	4.00	79.00	75.36	73.97	85.00	29.35	10.00	.00	.00	.00	.00	90.23	138.66	.85
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	6.00	13000.00	10.00	5.00	78.00	75.15	74.05	88.00	29.30	10.00	.00	.00	.00	.00	84.69	137.13	.86
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	9.00	11000.00	6.00	3.00	76.00	73.21	72.07	88.00	29.27	10.00	.00	.00	.00	.00	14.49	134.10	.80
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	12.00	13000.00	1.00	3.00	74.00	73.33	73.06	97.00	29.28	10.00	.00	.00	.00	.00	.00	131.12	.83
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	15.00	13000.00	5.00	6.00	72.00	69.80	68.80	90.00	29.25	9.00	.00	.00	.00	.00	.00	124.66	.72
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	18.00	9000.00	4.00	3.00	70.00	69.37	69.06	97.00	29.22	10.00	.00	.00	.00	.00	.00	125.34	.72
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.	21.00	8000.00	3.00	7.00	71.00	70.36	70.06	97.00	29.20	10.00	.00	.00	.00	.00	10.33	126.77	.75
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 21.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

worst-day-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial
(feet)	Dir.ec	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)(in Hg)	Cov(.1)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)							
0.	1900.	7.	22.		.00	700.00	3.00	8.00	74.00	71.74	70.78	90.00	29.20	10.00	.00	.00	66.48	131.12
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	3.00	3100.00	4.00	10.00	82.00	73.85	70.50	69.00	29.17	6.00	.00	.00	228.44	130.03	.76
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	6.00	35000.00	3.00	11.00	85.00	74.73	70.58	63.00	29.14	5.00	.00	.00	206.98	132.04	.77
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	9.00	35000.00	3.00	6.00	82.00	73.26	69.60	67.00	29.11	.00	.00	.00	34.17	122.53	.74
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	12.00	35000.00	.00	.00	72.00	70.69	70.11	94.00	29.15	.00	.00	.00	.00	109.58	.75
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	15.00	35000.00	.00	.00	71.00	70.36	70.06	97.00	29.17	.00	.00	.00	.00	108.35	.75
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	18.00	35000.00	.00	.00	70.00	69.37	69.06	97.00	29.17	.00	.00	.00	.00	107.13	.72
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.	21.00	35000.00	.00	.00	70.00	69.37	69.06	97.00	29.22	5.00	.00	.00	30.84	111.68	.72
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	22.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	35000.00	6.00	7.00	79.00	73.82	71.72	79.00	29.25	5.00	.00	.00	204.08	123.55
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	3.00	15000.00	7.00	10.00	84.00	73.86	69.63	63.00	29.25	7.00	.00	.00	221.59	135.70	.74
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	6.00	4100.00	5.00	5.00	86.00	74.99	70.54	61.00	29.20	7.00	.00	.00	150.26	138.72	.77
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	9.00	25000.00	7.00	7.00	80.00	74.23	71.91	77.00	29.18	10.00	.00	.00	29.93	140.22	.80
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	12.00	15000.00	5.00	6.00	78.00	72.88	70.75	79.00	29.22	9.00	.00	.00	.00	133.34	.77
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	15.00	15000.00	5.00	8.00	77.00	72.70	70.90	82.00	29.22	7.00	.00	.00	.00	125.56	.77
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	18.00	6000.00	5.00	5.00	72.00	72.00	71.99	100.00	29.22	10.00	.00	.00	.00	128.20	.80
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.	21.00	9000.00	5.00	4.00	71.00	69.49	68.79	93.00	29.23	6.00	.00	.00	24.56	114.98	.72
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	23.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	35000.00	5.00	6.00	78.00	72.89	70.75	79.00	29.27	5.00	.00	.00	203.32	122.18
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	3.00	2100.00	5.00	5.00	83.00	75.05	71.90	70.00	29.26	8.00	.00	.00	169.47	137.37	.80
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	6.00	35000.00	7.00	7.00	86.00	74.35	69.52	59.00	29.23	5.00	.00	.00	205.82	133.50	.74
0.	1900.	7.	24.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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Station (feet)	Year	Month	Day	Hour	Ceiling	Wind Temp(F)	Wind (%)(in Hg)	Wind Cov.(1)	Precip.	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)	Temp(F)
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	9.00	35000.00	7.00	6.00	83.00	74.17	70.56	67.00	29.22	2.00	.00	.00	33.38	124.74	.77		
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	12.00	35000.00	5.00	5.00	77.00	72.70	70.90	82.00	29.25	.00	.00	.00	.00	115.90	.77		
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	15.00	35000.00	7.00	5.00	72.00	69.80	68.80	90.00	29.25	.00	.00	.00	.00	109.58	.72		
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	18.00	35000.00	.00	.00	70.00	69.37	69.06	97.00	29.24	2.00	.00	.00	.00	107.86	.72		
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	21.00	35000.00	4.00	4.00	71.00	70.36	70.06	97.00	29.26	5.00	.00	.00	28.82	112.95	.75		
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	35000.00	7.00	6.00	81.00	75.16	72.88	77.00	29.26	5.00	.00	.00	202.56	126.33	.83		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	3.00	15000.00	9.00	8.00	81.00	75.70	73.67	79.00	29.24	10.00	.00	.00	134.12	141.78	.85		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	6.00	3700.00	6.00	5.00	73.00	71.68	71.10	94.00	29.26	10.00	.00	.00	66.60	129.66	.77		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	9.00	11000.00	10.00	3.00	73.00	69.38	67.71	84.00	29.17	10.00	.00	.00	13.20	129.66	.69		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	12.00	35000.00	8.00	4.00	70.00	68.51	67.79	93.00	29.20	.00	.00	.00	.00	107.13	.69		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	15.00	35000.00	7.00	5.00	68.00	67.38	67.06	97.00	29.22	.00	.00	.00	.00	104.72	.67		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	18.00	35000.00	8.00	4.00	69.00	67.53	66.80	93.00	29.21	.00	.00	.00	.00	105.92	.67		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	21.00	35000.00	9.00	4.00	70.00	70.00	69.98	100.00	29.21	1.00	.00	.00	27.73	107.31	.74		
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	25.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	.00	35000.00	9.00	8.00	83.00	77.85	76.01	80.00	29.19	.00	.00	.00	198.42	123.89	.92		
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	3.00	35000.00	11.00	8.00	91.00	81.03	77.71	66.00	29.17	5.00	.00	.00	275.29	141.00	.97		
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	6.00	35000.00	10.00	11.00	92.00	81.92	78.67	66.00	29.15	9.00	.00	.00	187.30	155.56	1.00		
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	9.00	25000.00	4.00	19.00	88.00	79.58	76.69	70.00	29.17	8.00	.00	.00	29.76	145.14	.94		
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	12.00	13000.00	11.00	4.00	72.00	70.69	70.11	94.00	29.17	10.00	.00	.00	.00	128.20	.75		
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0.	1900.	7.	26.	15.00	8000.00	11.00	18.00	73.00	70.08	68.77	87.00	29.14	10.00	.00	.00	.00	129.66	.72		

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)		Radiat.	Radiat.	Wat. Vap.	(in Hg)						
0. 1900.	7. 26.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 26.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 26.	18.00	13000.00		.00	.00	.00	71.00	69.49	68.79	93.00	29.14	10.00	.00	.00	.00	126.77	.72
0. 1900.	7. 26.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 26.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 26.	21.00	13000.00		1.00	5.00	72.00	70.69	70.11	94.00	29.17	10.00	.00	.00	.00	10.93	128.20	.75
0. 1900.	7. 26.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 26.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.		13000.00		14.00	6.00	75.00	70.81	68.95	82.00	29.22	10.00	.00	.00	.00	82.03	132.60	.72
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	3.00	15000.00		13.00	3.00	82.00	74.70	71.79	72.00	29.19	10.00	.00	.00	.00	133.56	143.36	.80
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	6.00	35000.00		9.00	9.00	86.00	77.16	73.88	68.00	29.15	3.00	.00	.00	.00	205.87	130.02	.86
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	9.00	15000.00		9.00	6.00	81.00	75.16	72.89	77.00	29.16	6.00	.00	.00	.00	26.74	128.60	.83
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	12.00	35000.00		8.00	3.00	76.00	73.92	73.10	91.00	29.19	3.00	.00	.00	.00	.00	116.37	.83
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	15.00	35000.00		9.00	3.00	74.00	73.33	73.06	97.00	29.19	.00	.00	.00	.00	.00	112.07	.83
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	18.00	35000.00		.00	.00	73.00	73.00	72.99	100.00	29.19	.00	.00	.00	.00	.00	110.82	.82
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.	21.00	35000.00		10.00	3.00	73.00	72.34	72.06	97.00	29.21	2.00	.00	.00	.00	25.93	111.57	.80
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 27.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.		35000.00		10.00	6.00	84.00	76.53	73.72	72.00	29.21	.00	.00	.00	.00	196.87	125.27	.85
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	3.00	35000.00		10.00	7.00	90.00	76.08	70.56	54.00	29.21	.00	.00	.00	.00	269.54	133.79	.77
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	6.00	35000.00		11.00	11.00	91.00	76.92	71.48	54.00	29.17	1.00	.00	.00	.00	202.73	135.49	.80
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	9.00	35000.00		10.00	6.00	88.00	76.73	72.42	61.00	29.17	.00	.00	.00	.00	29.23	130.90	.82
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	12.00	35000.00		10.00	6.00	79.00	75.36	73.97	85.00	29.19	.00	.00	.00	.00	.00	118.52	.85
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	15.00	35000.00		10.00	4.00	77.00	74.18	73.06	88.00	29.19	.00	.00	.00	.00	.00	115.90	.83
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	18.00	35000.00		10.00	4.00	74.00	72.66	72.10	94.00	29.20	.00	.00	.00	.00	.00	112.07	.80
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.	21.00	35000.00		9.00	3.00	73.00	72.34	72.06	97.00	29.22	.00	.00	.00	.00	24.33	110.82	.80
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 28.				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

worstday-9am.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(I)	Precip.	Radiat.	Radiat.	Wat. Vap.	(in Hg)						
0.	1900.	7.	29.	.00	35000.00	11.00	5.00	86.00	78.36	75.64	72.00	29.22	.00	.00	.00	196.09	128.06	.91	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	3.00	35000.00	13.00	5.00	92.00	79.89	75.68	60.00	29.20	.00	.00	.00	268.93	136.74	.91	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	6.00	35000.00	9.00	8.00	93.00	80.76	76.62	60.00	29.19	.00	.00	.00	199.15	138.23	.94	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	9.00	35000.00	10.00	6.00	89.00	80.49	77.65	70.00	29.18	.00	.00	.00	28.33	132.34	.97	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	12.00	35000.00	9.00	5.00	82.00	79.01	78.00	88.00	29.18	.00	.00	.00	.00	122.53	.98	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	15.00	35000.00	9.00	3.00	79.00	76.11	75.04	88.00	29.20	.00	.00	.00	.00	118.52	.88	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	18.00	35000.00	8.00	4.00	76.00	74.62	74.09	94.00	29.20	.00	.00	.00	.00	114.61	.86	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	21.00	35000.00	9.00	4.00	76.00	75.32	75.06	97.00	29.21	.00	.00	.00	23.33	114.61	.88	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	29.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	35000.00	10.00	7.00	85.00	78.89	76.77	77.00	29.19	.00	.00	.00	195.29	126.66	.94	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	3.00	35000.00	10.00	13.00	92.00	79.19	74.62	58.00	29.17	.00	.00	.00	268.31	136.74	.88	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	6.00	35000.00	11.00	12.00	92.00	79.89	75.68	60.00	29.14	.00	.00	.00	198.43	136.74	.91	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	9.00	35000.00	10.00	7.00	88.00	79.58	76.69	70.00	29.14	.00	.00	.00	27.41	130.90	.94	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	12.00	35000.00	9.00	5.00	82.00	79.01	78.00	88.00	29.14	.00	.00	.00	.00	122.53	.98	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	15.00	35000.00	9.00	7.00	79.00	76.11	75.04	88.00	29.16	.00	.00	.00	.00	118.52	.88	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	18.00	35000.00	10.00	6.00	77.00	74.90	74.09	91.00	29.17	.00	.00	.00	.00	115.90	.86	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	21.00	35000.00	9.00	6.00	75.00	74.32	74.06	97.00	29.17	.00	.00	.00	22.33	113.34	.85	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	30.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	31.	.00	35000.00	10.00	9.00	85.00	78.89	76.77	77.00	29.19	.00	.00	.00	194.48	126.66	.94	
0.	1900.	7.	31.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	31.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	31.	3.00	35000.00	11.00	14.00	92.00	79.89	75.68	60.00	29.17	.00	.00	.00	267.68	136.74	.91	
0.	1900.	7.	31.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	31.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
0.	1900.	7.	31.	6.00	35000.00	11.00	10.00	93.00	79.34	74.46	56.00	29.16	1.00	.00	.00	200.55	138.46	.88	
0.	1900.	7.	31.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	

worstday-9am.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)		Radiat.	Radiat.	Wat. Vap.(in Hg)								
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		9.00	35000.00	11.00	4.00	90.00	80.13	76.76	66.00	29.15	4.00	.00	.00	.00	27.12	137.43	.94	
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		12.00	35000.00	1.00	4.00	80.00	74.76	72.70	79.00	29.18	5.00	.00	.00	.00	.00	124.94	.82	
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		15.00	35000.00	.00	.00	77.00	74.90	74.09	91.00	29.19	2.00	.00	.00	.00	.00	116.69	.86	
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		18.00	35000.00	6.00	4.00	76.00	74.62	74.09	94.00	29.18	2.00	.00	.00	.00	.00	115.39	.86	
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		21.00	15000.00	9.00	5.00	76.00	74.62	74.09	94.00	29.21	8.00	.00	.00	.00	15.42	127.08	.86	
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	7. 31.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	35000.00	8.00	6.00	85.00	78.32	75.95	75.00	29.22	8.00	.00	.00	.00	186.08	140.44	.92	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		3.00	35000.00	4.00	8.00	86.00	77.77	74.77	70.00	29.22	10.00	.00	.00	.00	239.22	149.83	.88	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		6.00	15000.00	15.00	9.00	84.00	79.33	77.76	82.00	29.17	10.00	.00	.00	.00	97.37	146.56	.97	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		9.00	15000.00	8.00	3.00	75.00	72.71	71.77	90.00	29.14	10.00	.00	.00	.00	12.61	132.60	.79	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		12.00	15000.00	.00	.00	75.00	73.64	73.09	94.00	29.19	10.00	.00	.00	.00	.00	132.60	.83	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		15.00	15000.00	.00	.00	74.00	72.66	72.10	94.00	29.20	8.00	.00	.00	.00	.00	124.26	.80	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		18.00	35000.00	12.00	4.00	73.00	73.00	72.99	100.00	29.22	10.00	.00	.00	.00	.00	129.66	.82	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		21.00	15000.00	8.00	3.00	73.00	73.00	72.99	100.00	29.22	6.00	.00	.00	.00	18.05	117.60	.82	
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 1.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		.00	10000.00	9.00	5.00	82.00	77.44	75.80	82.00	29.24	6.00	.00	.00	.00	166.55	130.03	.91	
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		3.00	25000.00	12.00	8.00	89.00	79.87	76.74	68.00	29.24	7.00	.00	.00	.00	262.39	143.36	.94	
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		6.00	25000.00	9.00	5.00	89.00	78.26	74.36	63.00	29.18	7.00	.00	.00	.00	193.22	143.36	.87	
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		9.00	15000.00	9.00	5.00	84.00	78.79	76.99	80.00	29.16	9.00	.00	.00	.00	15.13	142.52	.95	
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		12.00	6500.00	10.00	7.00	78.00	75.87	75.08	91.00	29.19	8.00	.00	.00	.00	.00	129.96	.89	
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8. 2.		15.00	7000.00	9.00	3.00	76.00	73.21	72.07	88.00	29.19	8.00	.00	.00	.00	.00	127.08	.80	

worstday-9am.txt																		
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial Press.
(feet)	Dirac.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov.(I)	Precip.	Radiat.	Radiat.	Wat. Vap.(in Hg)						
0. 1900.	8.	2.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	2.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	2.	18.00	35000.00	9.00	3.00	74.00	72.66	72.10	94.00	29.19	2.00	.00	.00	.00	.00	112.83	.80
0. 1900.	8.	2.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	2.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	2.	21.00	3700.00	11.00	5.00	74.00	73.33	73.06	97.00	29.22	9.00	.00	.00	.00	9.41	127.50	.83
0. 1900.	8.	2.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	2.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	35000.00	12.00	7.00	84.00	77.39	74.98	75.00	29.22	4.00	.00	.00	.00	196.74	128.68	.89
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	3.00	35000.00	10.00	7.00	88.00	79.59	76.69	70.00	29.22	5.00	.00	.00	.00	270.19	136.46	.94
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	6.00	35000.00	11.00	6.00	90.00	81.40	78.60	70.00	29.18	4.00	.00	.00	.00	200.15	137.43	1.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	9.00	35000.00	11.00	4.00	89.00	80.49	77.65	70.00	29.18	3.00	.00	.00	.00	24.16	134.36	.97
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	12.00	35000.00	5.00	4.00	81.00	78.04	77.01	88.00	29.22	1.00	.00	.00	.00	.00	121.39	.94
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	15.00	35000.00	6.00	3.00	78.00	74.40	72.98	85.00	29.21	1.00	.00	.00	.00	.00	117.40	.83
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	18.00	35000.00	3.00	4.00	74.00	73.33	73.06	97.00	29.21	2.00	.00	.00	.00	.00	112.83	.83
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	21.00	35000.00	.00	.00	74.00	73.33	73.06	97.00	29.25	.00	.00	.00	.00	18.35	112.07	.83
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	3.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	35000.00	12.00	4.00	87.00	79.28	76.61	72.00	29.26	.00	.00	.00	.00	191.18	129.47	.94
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	3.00	35000.00	.00	.00	90.00	77.47	72.75	58.00	29.24	4.00	.00	.00	.00	271.51	137.43	.83
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	6.00	35000.00	12.00	7.00	95.00	79.94	74.61	53.00	29.22	1.00	.00	.00	.00	197.32	141.50	.88
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	9.00	35000.00	13.00	4.00	90.00	78.49	74.31	61.00	29.22	1.00	.00	.00	.00	22.84	134.02	.87
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	12.00	35000.00	3.00	4.00	81.00	78.80	78.06	91.00	29.24	.00	.00	.00	.00	.00	121.18	.98
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	15.00	35000.00	6.00	4.00	79.00	76.85	76.07	91.00	29.26	.00	.00	.00	.00	.00	118.52	.92
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	18.00	35000.00	.00	.00	77.00	75.61	75.09	94.00	29.25	.00	.00	.00	.00	.00	115.90	.88
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	21.00	35000.00	.00	.00	77.00	76.31	76.06	97.00	29.26	7.00	.00	.00	.00	17.11	125.56	.91
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	4.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

worstday-9am.txt																			
Station	Year	Month	Day	Hour	Ceiling	Wind	Wind	DryBulb	WetBulb	DewPt.	Humidity	Press.	Cloud	Freezing	Rain	Solar	Atmos.	Partial	Press.
(feet)	Dir.	V(knts)	Temp(F)	Temp(F)	Temp(F)	(%)	(in Hg)	Cov(I)	Precip.	Radiat.	Radiat.	Wat. Vap.	(in Hg)						
0. 1900.	8.	5.	.00	35000.00	13.00	10.00	86.00	79.83	77.74	77.00	29.28	8.00	.00	.00	182.88	141.99	.97		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	3.00	35000.00	13.00	10.00	92.00	80.58	76.70	62.00	29.26	10.00	.00	.00	236.76	159.98	.94		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	6.00	35000.00	14.00	11.00	88.00	78.97	75.79	68.00	29.25	10.00	.00	.00	173.49	153.15	.91		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	9.00	25000.00	15.00	8.00	82.00	76.64	74.65	79.00	29.28	10.00	.00	.00	19.25	143.36	.88		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	12.00	1500.00	16.00	9.00	79.00	75.36	73.97	85.00	29.31	10.00	.00	.00	.00	138.66	.85		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	15.00	2300.00	2.00	5.00	76.00	73.93	73.10	91.00	29.31	10.00	.00	.00	.00	134.10	.83		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	18.00	2900.00	2.00	9.00	75.00	72.72	71.77	90.00	29.30	10.00	.00	.00	.00	132.60	.79		
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	21.00	3300.00	1.00	8.00	71.00	67.48	65.75	84.00	29.35	10.00	.00	.00	.00	5.41	126.77	.65	
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
0. 1900.	8.	5.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Program : LAKET
Number : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

Page : 1
Date : 04/11/2006
Time : 08:18:18.10

Case 1a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0')

1									
2	070100	073100	1	1	0		3	2	
3	1	0	20.						
4	1	0.2	5500.	0					
5	6	2	690						
	690	83.83	464.9	75.45	418.4				
	689	82.15	381.9	73.94	343.7				
	688	80.55	300.5	72.50	270.5				
	687	78.96	220.8	71.06	198.7				
	686	77.33	142.6	69.60	128.4				
	685	29.70	71.7	26.73	65.6				
7	1	0	3	18	19	20			
8	102.98	98.48							
999									
FPLANT	R/I	86.0							
TPRISE	S/I								
35.48									
28.95									
16.79									
16.39									
15.42									
15.06									
14.61									
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8.31
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END
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Program : LAKET
Number : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

Page : 7
Date : 04/11/2006
Time : 08:18:18.26

Case 1a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0')

RUN 31 DAYS FROM 70100 TO 73100
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	83.830	464.900	75.450	418.400
689.000	82.150	381.900	73.940	343.700
688.000	80.550	300.500	72.500	270.500
687.000	78.960	220.800	71.060	198.700
686.000	77.330	142.600	69.600	128.400
685.000	29.700	71.700	26.730	65.600

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 102.98 98.48

WEATHER STATION ID 0.


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Program : LAKET
Number  : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

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Page : 8
Date : 04/11/2006
Time : 08:18:18.40

Case 1a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0')

FPLANT			
70100 -	73100	R/I	86.000

[illegible]

[illegible]

Program : LAKET
 Number : 03.7.292-2.2 0
 Created : 11/18/2004 08:08:26

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 Date : 04/11/2006
 Time : 08:18:18.56

Case 1a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	0.00	689.34	0.00	689.34
TOTAL AREA (ACRE)	0.00	82.73	0.00	82.73
TOTAL VOLUME (ACRE~FT)	0.00	410.40	0.00	410.40
EFFECTIVE AREA (ACRE)	0.00	74.46	0.00	74.46
EFFECTIVE VOL (ACRE~FT)	0.00	369.35	0.00	369.35
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.18	0.00	-0.18
EVAPORATION TOTAL (CFS)	0.00	-1.42	0.00	-1.42
EVAPORATION NATURL (CFS)	0.00	-0.79	0.00	-0.79
EVAPORATION FORCED (CFS)	0.00	-0.63	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	0.00	204.97
SURF LOSS (BTU/HR-FT2)	0.00	151.49	0.00	151.49
EVAP LOSS (BTU/HR-FT2)	0.00	50.80	0.00	50.80
COND LOSS (BTU/HR-FT2)	0.00	7.00	0.00	7.00
LAKE TEMP NATURAL (F)	0.00	89.05	0.00	89.05
LAKE TEMP @ INLET (F)	0.00	100.01	0.00	100.01
LAKE TEMP @ OUTLET (F)	0.00	90.16	0.00	90.16
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE~FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE~FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE~FT)	0.00	-11.00	0.00	-11.00
TOTAL EVAP TOT (ACRE~FT)	0.00	-87.24	0.00	-87.24
TOTAL EVAP NAT (ACRE~FT)	0.00	-48.33	0.00	-48.33
TOTAL EVAP FOR (ACRE~FT)	0.00	-38.91	0.00	-38.91
TOTAL BLWD TOT (ACRE~FT)	0.00	0.00	0.00	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

	1%	5%	50%
--	----	----	-----

LAKE TEMP NATURAL (F)	100.5	97.0	88.5
LAKE TEMP @ INLET (F)	132.0	111.0	99.1
LAKE TEMP @ OUTLET (F)	103.3	98.0	89.6

Program : LAKET
 Number : 03.7.292-2.2 O
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Case 1a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	0.00	689.34	0.00	689.34
TOTAL AREA (ACRE)	0.00	82.73	0.00	82.73
TOTAL VOLUME (ACRE-FT)	0.00	410.40	0.00	410.40
EFFECTIVE AREA (ACRE)	0.00	74.46	0.00	74.46
EFFECTIVE VOL (ACRE-FT)	0.00	369.35	0.00	369.35
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.18	0.00	-0.18
EVAPORATION TOTAL (CFS)	0.00	-1.42	0.00	-1.42
EVAPORATION NATURL(CFS)	0.00	-0.79	0.00	-0.79
EVAPORATION FORCED(CFS)	0.00	-0.63	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	0.00	204.97
SURF LOSS (BTU/HR-FT2)	0.00	151.49	0.00	151.49
EVAP LOSS (BTU/HR-FT2)	0.00	50.80	0.00	50.80
COND LOSS (BTU/HR-FT2)	0.00	7.00	0.00	7.00
LAKE TEMP NATURAL (F)	0.00	89.05	0.00	89.05
LAKE TEMP @ INLET (F)	0.00	100.01	0.00	100.01
LAKE TEMP @ OUTLET (F)	0.00	90.16	0.00	90.16
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-11.00	0.00	-11.00
TOTAL EVAP TOT (ACRE-FT)	0.00	-87.24	0.00	-87.24
TOTAL EVAP NAT (ACRE-FT)	0.00	-48.33	0.00	-48.33
TOTAL EVAP FOR (ACRE-FT)	0.00	-38.91	0.00	-38.91
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

1% 5% 50%

LAKE TEMP NATURAL (F) 100.5 97.0 88.5
LAKE TEMP @ INLET (F) 132.0 111.0 99.1
LAKE TEMP @ OUTLET (F) 103.3 98.0 89.6

Program : LAKET
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Case 1a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.81 (7311900)	689.34
TOTAL AREA (ACRE)	83.82 (7011900)	81.85 (7311900)	82.73
TOTAL VOLUME (ACRE-FT)	464.29 (7011900)	366.65 (7311900)	410.40
EFFECTIVE AREA (ACRE)	75.44 (7011900)	73.67 (7311900)	74.46
EFFECTIVE VOL (ACRE-FT)	417.85 (7011900)	329.99 (7311900)	369.35
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.16 (7311900)	-0.20 (7011900)	-0.18
EVAPORATION TOTAL (CFS)	-0.29 (7181900)	-4.92 (7021900)	-1.42
EVAPORATION NATURL(CFS)	0.00 (7011900)	-3.78 (7031900)	-0.79
EVAPORATION FORCED(CFS)	-0.28 (7271900)	-2.00 (7011900)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	204.97
SURF LOSS (BTU/HR-FT2)	165.18 (7011900)	144.85 (7061900)	151.49
EVAP LOSS (BTU/HR-FT2)	241.93 (7031900)	0.00 (7011900)	50.80
COND LOSS (BTU/HR-FT2)	39.22 (7261900)	-6.56 (7261900)	7.00
LAKE TEMP NATURAL (F)	101.09 (7011900)	82.96 (7061900)	89.05
LAKE TEMP @ INLET (F)	138.60 (7011900)	93.65 (7251900)	100.01
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	84.47 (7061900)	90.16
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT(ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7311900)	-0.05 (7011900)	-11.00
TOTAL EVAP TOT(ACRE-FT)	-0.07 (7181900)	-1.22 (7021900)	-87.24
TOTAL EVAP NAT(ACRE-FT)	0.00 (7011900)	-0.94 (7031900)	-48.33
TOTAL EVAP FOR(ACRE-FT)	-0.07 (7271900)	-0.50 (7011900)	-38.91
TOTAL BLWD TOT(ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.0	88.5
LAKE TEMP @ INLET	(F)	132.0	111.0	99.1
LAKE TEMP @ OUTLET	(F)	103.3	98.0	89.6

Number : 03.7.292-2.2 O
Created : 11/18/2004 08:08:26

Date : 04/07/2006
Time : 13:53:52.54

Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0')

1
2 070100 080500 1 1 0 3 2

3 1 0 20.

4 1 0.2 5500. 0

5 6 2 690

690 83.83 464.9 75.45 418.4

689 82.15 381.9 73.94 343.7

688 80.55 300.5 72.50 270.5

687 78.96 220.8 71.06 198.7

686 77.33 142.6 69.60 128.4

685 29.70 71.7 26.73 65.6

7 1 0 3 18 19 20

8 103.59 99.09

999

FPLANT R/I 86.0

TPRISE S/I

35.48

28.95

16.79

16.39

15.42

15.06

14.61

14.36

13.95

13.52

13.36

13.36

13.36

13.30

12.79

12.79

12.50

12.50

12.30

12.09

12.09

12.09

12.09

12.08

11.56

11.56

11.56

11.56

11.56

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

8.31
8.31
8.31
8.31
8.31
8.31
8.31
8.31
END

Program : LAKET
Number : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

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Date : 04/07/2006
Time : 13:53:52.54

Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0')

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	83.830	464.900	75.450	418.400
689.000	82.150	381.900	73.940	343.700
688.000	80.550	300.500	72.500	270.500
687.000	78.960	220.800	71.060	198.700
686.000	77.330	142.600	69.600	128.400
685.000	29.700	71.700	26.730	65.600

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 103.59 99.09

WEATHER STATION ID 0.


```

Program : LAKET
Number  : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

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Date : 04/07/2006
Time : 13:53:52.54

Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0')

FPLANT			
70100 -	80500	R/I	86.000

[illegible]

[illegible]

Program : LAKET
 Number : 03.7.292-2.2 0
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 Date : 04/07/2006
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Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	20.00	20.00
LAKE ELEVATION (FEET)	0.00	689.27	688.54	689.17
TOTAL AREA (ACRE)	0.00	82.61	81.42	82.44
TOTAL VOLUME (ACRE-FT)	0.00	404.43	344.79	396.15
EFFECTIVE AREA (ACRE)	0.00	74.35	73.28	74.20
EFFECTIVE VOL (ACRE-FT)	0.00	363.98	310.33	356.53
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.18	-0.15	-0.17
EVAPORATION TOTAL (CFS)	0.00	-1.67	-1.33	-1.62
EVAPORATION NATURL(CFS)	0.00	-1.02	-0.77	-0.98
EVAPORATION FORCED(CFS)	0.00	-0.65	-0.56	-0.64
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	219.94	214.31	219.16
SURF LOSS (BTU/HR-FT2)	0.00	153.89	151.96	153.62
EVAP LOSS (BTU/HR-FT2)	0.00	65.70	50.49	63.59
COND LOSS (BTU/HR-FT2)	0.00	5.59	5.00	5.51
LAKE TEMP NATURAL (F)	0.00	91.20	89.49	90.96
LAKE TEMP @ INLET (F)	0.00	101.94	98.80	101.51
LAKE TEMP @ OUTLET (F)	0.00	92.10	90.54	91.88
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.85	-1.51	-12.36
TOTAL EVAP TOT (ACRE-FT)	0.00	-102.55	-13.16	-115.71
TOTAL EVAP NAT (ACRE-FT)	0.00	-62.41	-7.61	-70.02
TOTAL EVAP FOR (ACRE-FT)	0.00	-40.14	-5.55	-45.69
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.5	90.9
LAKE TEMP @ INLET	(F)	132.0	110.9	100.9
LAKE TEMP @ OUTLET	(F)	103.5	98.2	91.9

Program : LAKET
 Number : 03.7.292-2.2 0
 Created : 11/18/2004 08:08:26

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Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	20.00	20.00
LAKE ELEVATION (FEET)	0.00	689.27	688.54	689.17
TOTAL AREA (ACRE)	0.00	82.61	81.42	82.44
TOTAL VOLUME (ACRE-FT)	0.00	404.43	344.79	396.15
EFFECTIVE AREA (ACRE)	0.00	74.35	73.28	74.20
EFFECTIVE VOL (ACRE-FT)	0.00	363.98	310.33	356.53
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.18	-0.15	-0.17
EVAPORATION TOTAL (CFS)	0.00	-1.67	-1.33	-1.62
EVAPORATION NATURL (CFS)	0.00	-1.02	-0.77	-0.98
EVAPORATION FORCED (CFS)	0.00	-0.65	-0.56	-0.64
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	219.94	214.31	219.16
SURF LOSS (BTU/HR-FT2)	0.00	153.89	151.96	153.62
EVAP LOSS (BTU/HR-FT2)	0.00	65.70	50.49	63.59
COND LOSS (BTU/HR-FT2)	0.00	5.59	5.00	5.51
LAKE TEMP NATURAL (F)	0.00	91.20	89.49	90.96
LAKE TEMP @ INLET (F)	0.00	101.94	98.80	101.51
LAKE TEMP @ OUTLET (F)	0.00	92.10	90.54	91.88
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.85	-1.51	-12.36
TOTAL EVAP TOT (ACRE-FT)	0.00	-102.55	-13.16	-115.71
TOTAL EVAP NAT (ACRE-FT)	0.00	-62.41	-7.61	-70.02
TOTAL EVAP FOR (ACRE-FT)	0.00	-40.14	-5.55	-45.69
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.5	90.9
LAKE TEMP @ INLET	(F)	132.0	110.9	100.9
LAKE TEMP @ OUTLET	(F)	103.5	98.2	91.9

Program : LAKET
 Number : 03.7.292-2.2 O
 Created : 11/18/2004 08:08:26

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 Time : 13:53:52.57

Case 1b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.45 (8051900)	689.17
TOTAL AREA (ACRE)	83.81 (7011900)	81.26 (8051900)	82.44
TOTAL VOLUME (ACRE-FT)	464.07 (7011900)	336.81 (8051900)	396.15
EFFECTIVE AREA (ACRE)	75.43 (7011900)	73.14 (8051900)	74.20
EFFECTIVE VOL (ACRE-FT)	417.66 (7011900)	303.15 (8051900)	356.53
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.15 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.28 (8051900)	-3.97 (7051900)	-1.62
EVAPORATION NATURL(CFS)	0.00 (7031900)	-2.78 (7051900)	-0.98
EVAPORATION FORCED(CFS)	-0.27 (7311900)	-1.86 (7011900)	-0.64
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	165.48 (7011900)	144.08 (7241900)	153.62
EVAP LOSS (BTU/HR-FT2)	177.64 (7051900)	0.00 (7031900)	63.59
COND LOSS (BTU/HR-FT2)	25.97 (7051900)	-31.74 (7251900)	5.51
LAKE TEMP NATURAL (F)	101.34 (7011900)	82.23 (7241900)	90.96
LAKE TEMP @ INLET (F)	138.50 (7011900)	91.64 (7241900)	101.51
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	83.07 (7241900)	91.88
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (8051900)	-0.05 (7011900)	-12.36
TOTAL EVAP TOT (ACRE-FT)	-0.07 (8051900)	-0.99 (7051900)	-115.71
TOTAL EVAP NAT (ACRE-FT)	0.00 (7031900)	-0.69 (7051900)	-70.02
TOTAL EVAP FOR (ACRE-FT)	-0.07 (7311900)	-0.46 (7011900)	-45.69
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TEMPERATURE	FREQUENCY OF OCCURENCES		

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.5	90.9
LAKE TEMP @ INLET	(F)	132.0	110.9	100.9
LAKE TEMP @ OUTLET	(F)	103.5	98.2	91.9

Number : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

Date : 04/11/2006
Time : 15:49:00.62

Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

1
2 061854 071754 1 1 0 3 2

3 1 0 20.

4 1 0.2 5500. 0

5 6 2 690

690 83.83 464.9 75.45 418.4

689 82.15 381.9 73.94 343.7

688 80.55 300.5 72.50 270.5

687 78.96 220.8 71.06 198.7

686 77.33 142.6 69.60 128.4

685 29.70 71.7 26.73 65.6

7 1 0 3 18 19 20

8 102.98 98.48

999

FPLANT R/I 86.0

TPRISE S/I

35.48

28.95

16.79

16.39

15.42

15.06

14.61

14.36

13.95

13.52

13.36

13.36

13.36

13.30

12.79

12.79

12.50

12.50

12.30

12.09

12.09

12.09

12.09

12.08

11.56

11.56

11.56

11.56

11.56

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

8.31
8.31
8.31
8.31
8.31
8.31
8.31
8.31
END

Program : LAKET
Number : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

Page : 7
Date : 04/11/2006
Time : 15:49:00.73

Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

RUN 30 DAYS FROM 61854 TO 71754
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	83.830	464.900	75.450	418.400
689.000	82.150	381.900	73.940	343.700
688.000	80.550	300.500	72.500	270.500
687.000	78.960	220.800	71.060	198.700
686.000	77.330	142.600	69.600	128.400
685.000	29.700	71.700	26.730	65.600

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 102.98 98.48

WEATHER STATION ID 93822.


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Program : LAKET
Number   : 03.7.292-2.2 0
Created  : 11/18/2004 08:08:26

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Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

FPLANT				
61854	-	71754	R/I	86.000

[illegible]

8.940	8.940	8.940	8.940
8.940	8.940	8.940	8.940
8.810	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.610	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.520

Program : LAKET
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Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

SEASONAL SUMMARY FOR SUMMER (6/1954 - 8/1954)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	20.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	689.60	688.91	0.00	689.21
TOTAL AREA (ACRE)	83.16	82.00	0.00	82.50
TOTAL VOLUME (ACRE-FT)	431.66	374.32	0.00	399.17
EFFECTIVE AREA (ACRE)	74.85	73.81	0.00	74.26
EFFECTIVE VOL (ACRE-FT)	388.48	336.89	0.00	359.24
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	-0.19	-0.16	0.00	-0.17
EVAPORATION TOTAL (CFS)	-2.10	-1.72	0.00	-1.89
EVAPORATION NATURL (CFS)	-1.37	-1.16	0.00	-1.25
EVAPORATION FORCED (CFS)	-0.73	-0.56	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	226.40	221.82	0.00	223.80
SURF LOSS (BTU/HR-FT2)	148.78	145.52	0.00	146.93
EVAP LOSS (BTU/HR-FT2)	88.39	76.16	0.00	81.46
COND LOSS (BTU/HR-FT2)	4.93	1.01	0.00	2.71
LAKE TEMP NATURAL (F)	86.53	83.56	0.00	84.84
LAKE TEMP @ INLET (F)	98.87	93.51	0.00	95.84
LAKE TEMP @ OUTLET (F)	87.57	84.72	0.00	85.95
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	-4.83	-5.55	0.00	-10.38
TOTAL EVAP TOT (ACRE-FT)	-54.22	-57.99	0.00	-112.21
TOTAL EVAP NAT (ACRE-FT)	-35.39	-39.19	0.00	-74.58
TOTAL EVAP FOR (ACRE-FT)	-18.83	-18.80	0.00	-37.63
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

	1%	5%	50%

LAKE TEMP NATURAL (F)	100.0	94.5	84.1
LAKE TEMP @ INLET (F)	132.0	109.0	94.6
LAKE TEMP @ OUTLET (F)	103.0	95.5	85.3

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Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	20.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	689.60	688.91	0.00	689.21
TOTAL AREA (ACRE)	83.16	82.00	0.00	82.50
TOTAL VOLUME (ACRE-FT)	431.66	374.32	0.00	399.17
EFFECTIVE AREA (ACRE)	74.85	73.81	0.00	74.26
EFFECTIVE VOL (ACRE-FT)	388.48	336.89	0.00	359.24
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	-0.19	-0.16	0.00	-0.17
EVAPORATION TOTAL (CFS)	-2.10	-1.72	0.00	-1.89
EVAPORATION NATURL (CFS)	-1.37	-1.16	0.00	-1.25
EVAPORATION FORCED (CFS)	-0.73	-0.56	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	226.40	221.82	0.00	223.80
SURF LOSS (BTU/HR-FT2)	148.78	145.52	0.00	146.93
EVAP LOSS (BTU/HR-FT2)	88.39	76.16	0.00	81.46
COND LOSS (BTU/HR-FT2)	4.93	1.01	0.00	2.71
LAKE TEMP NATURAL (F)	86.53	83.56	0.00	84.84
LAKE TEMP @ INLET (F)	98.87	93.51	0.00	95.84
LAKE TEMP @ OUTLET (F)	87.57	84.72	0.00	85.95
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	-4.83	-5.55	0.00	-10.38
TOTAL EVAP TOT (ACRE-FT)	-54.22	-57.99	0.00	-112.21
TOTAL EVAP NAT (ACRE-FT)	-35.39	-39.19	0.00	-74.58
TOTAL EVAP FOR (ACRE-FT)	-18.83	-18.80	0.00	-37.63
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

1% 5% 50%

LAKE TEMP NATURAL (F) 100.0 94.5 84.1
LAKE TEMP @ INLET (F) 132.0 109.0 94.6
LAKE TEMP @ OUTLET (F) 103.0 95.5 85.3

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Case 1c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, 0')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (6181954)	20.00 (6181954)	20.00
LAKE ELEVATION (FEET)	689.99 (6181954)	688.52 (7171954)	689.21
TOTAL AREA (ACRE)	83.82 (6181954)	81.37 (7171954)	82.50
TOTAL VOLUME (ACRE-FT)	464.32 (6181954)	342.30 (7171954)	399.17
EFFECTIVE AREA (ACRE)	75.44 (6181954)	73.24 (7171954)	74.26
EFFECTIVE VOL (ACRE-FT)	417.88 (6181954)	308.09 (7171954)	359.24
CIRCULATION TIME (HR)	0.00 (6181954)	0.00 (6181954)	0.00
PRECIPITATION (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
MAKEUP TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SEEPAGE (CFS)	-0.15 (7171954)	-0.20 (6181954)	-0.17
EVAPORATION TOTAL (CFS)	-0.55 (6291954)	-5.34 (6271954)	-1.89
EVAPORATION NATURL(CFS)	-0.28 (6221954)	-4.08 (6271954)	-1.25
EVAPORATION FORCED(CFS)	-0.17 (7171954)	-2.19 (6181954)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SOLAR GAIN (BTU/HR-FT2)	451.13 (6191954)	90.18 (7071954)	223.80
SURF LOSS (BTU/HR-FT2)	165.31 (6181954)	137.78 (7071954)	146.93
EVAP LOSS (BTU/HR-FT2)	263.35 (6271954)	18.24 (6221954)	81.46
COND LOSS (BTU/HR-FT2)	37.87 (6271954)	-46.87 (7121954)	2.71
LAKE TEMP NATURAL (F)	101.19 (6181954)	76.21 (7071954)	84.84
LAKE TEMP @ INLET (F)	139.42 (6181954)	85.46 (7071954)	95.84
LAKE TEMP @ OUTLET (F)	103.94 (6181954)	76.52 (7071954)	85.95
DISSOLVED SOLIDS (PPM)	0.00 (6181954)	0.00 (6181954)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7171954)	-0.05 (6181954)	-10.38
TOTAL EVAP TOT (ACRE-FT)	-0.14 (6291954)	-1.32 (6271954)	-112.21
TOTAL EVAP NAT (ACRE-FT)	-0.07 (6221954)	-1.01 (6271954)	-74.58
TOTAL EVAP FOR (ACRE-FT)	-0.04 (7171954)	-0.54 (6181954)	-37.63
TOTAL BLWD TOT (ACRE-FT)	0.00 (6181954)	0.00 (6181954)	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.0	94.5	84.1
LAKE TEMP @ INLET	(F)	132.0	109.0	94.6
LAKE TEMP @ OUTLET	(F)	103.0	95.5	85.3

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Case 2a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0.5')

1							
2	070100	073100	1	1	0	3	2
3	1	0	20.				
4	1	0.2	5500.	0			
5	6	2	690				
	690	82.99	423.5	74.69	381.2		
	689	81.35	341.3	73.21	307.2		
	688	79.75	260.8	71.78	234.7		
	687	78.15	181.8	70.34	163.7		
	686	29.70	102.2	26.73	92.0		
	685	22.22	60.0	20.00	54.0		
7	1	0	3	18	19	20	
8	102.87	98.37					
999							
FPLANT	R/I	86.0					
TPRISE	S/I						
35.48							
28.95							
16.79							
16.39							
15.42							
15.06							
14.61							
14.36							
13.95							
13.52							
13.36							
13.36							
13.36							
13.30							
12.79							
12.79							
12.50							
12.50							
12.30							
12.09							
12.09							
12.09							
12.09							
12.08							
11.56							
11.56							
11.56							
11.56							
11.56							

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

8.31
8.31
8.31
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8.31
8.31
8.31
END

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Case 2a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0.5')

RUN 31 DAYS FROM 70100 TO 73100
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	82.990	423.500	74.690	381.200
689.000	81.350	341.300	73.210	307.200
688.000	79.750	260.800	71.780	234.700
687.000	78.150	181.800	70.340	163.700
686.000	29.700	102.200	26.730	92.000
685.000	22.220	60.000	20.000	54.000

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 102.87 98.37

WEATHER STATION ID 0.


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Case 2a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0.5')

FPLANT

70100 -	73100	R/I	86.000
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TPRISE

[illegible]

8.940	8.940	8.940	8.940
8.940	8.940	8.940	8.940
8.810	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.610	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.520
8.310	8.310	8.310	8.310
8.310	8.310	8.310	8.310

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Case 2a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0.5')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	0.00	689.34	0.00	689.34
TOTAL AREA (ACRE)	0.00	81.91	0.00	81.91
TOTAL VOLUME (ACRE-FT)	0.00	369.56	0.00	369.56
EFFECTIVE AREA (ACRE)	0.00	73.72	0.00	73.72
EFFECTIVE VOL (ACRE-FT)	0.00	332.64	0.00	332.64
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.18	0.00	-0.18
EVAPORATION TOTAL (CFS)	0.00	-1.41	0.00	-1.41
EVAPORATION NATURL (CFS)	0.00	-0.77	0.00	-0.77
EVAPORATION FORCED (CFS)	0.00	-0.63	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	0.00	204.97
SURF LOSS (BTU/HR-FT2)	0.00	151.40	0.00	151.40
EVAP LOSS (BTU/HR-FT2)	0.00	50.58	0.00	50.58
COND LOSS (BTU/HR-FT2)	0.00	6.94	0.00	6.94
LAKE TEMP NATURAL (F)	0.00	88.96	0.00	88.96
LAKE TEMP @ INLET (F)	0.00	99.87	0.00	99.87
LAKE TEMP @ OUTLET (F)	0.00	90.03	0.00	90.03
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.87	0.00	-10.87
TOTAL EVAP TOT (ACRE-FT)	0.00	-86.56	0.00	-86.56
TOTAL EVAP NAT (ACRE-FT)	0.00	-47.65	0.00	-47.65
TOTAL EVAP FOR (ACRE-FT)	0.00	-38.91	0.00	-38.91
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.0	88.4
LAKE TEMP @ INLET	(F)	132.0	111.0	98.9
LAKE TEMP @ OUTLET	(F)	103.3	97.0	89.4

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Case 2a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0.5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	0.00	689.34	0.00	689.34
TOTAL AREA (ACRE)	0.00	81.91	0.00	81.91
TOTAL VOLUME (ACRE-FT)	0.00	369.56	0.00	369.56
EFFECTIVE AREA (ACRE)	0.00	73.72	0.00	73.72
EFFECTIVE VOL (ACRE-FT)	0.00	332.64	0.00	332.64
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.18	0.00	-0.18
EVAPORATION TOTAL (CFS)	0.00	-1.41	0.00	-1.41
EVAPORATION NATURL (CFS)	0.00	-0.77	0.00	-0.77
EVAPORATION FORCED (CFS)	0.00	-0.63	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	0.00	204.97
SURF LOSS (BTU/HR-FT2)	0.00	151.40	0.00	151.40
EVAP LOSS (BTU/HR-FT2)	0.00	50.58	0.00	50.58
COND LOSS (BTU/HR-FT2)	0.00	6.94	0.00	6.94
LAKE TEMP NATURAL (F)	0.00	88.96	0.00	88.96
LAKE TEMP @ INLET (F)	0.00	99.87	0.00	99.87
LAKE TEMP @ OUTLET (F)	0.00	90.03	0.00	90.03
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.87	0.00	-10.87
TOTAL EVAP TOT (ACRE-FT)	0.00	-86.56	0.00	-86.56
TOTAL EVAP NAT (ACRE-FT)	0.00	-47.65	0.00	-47.65
TOTAL EVAP FOR (ACRE-FT)	0.00	-38.91	0.00	-38.91
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

	1%	5%	50%

LAKE TEMP NATURAL (F)	100.5	97.0	88.4
LAKE TEMP @ INLET (F)	132.0	111.0	98.9
LAKE TEMP @ OUTLET (F)	103.3	97.0	89.4

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Case 2a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104F, 0.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.81 (7311900)	689.34
TOTAL AREA (ACRE)	82.98 (7011900)	81.05 (7311900)	81.91
TOTAL VOLUME (ACRE-FT)	422.90 (7011900)	326.06 (7311900)	369.56
EFFECTIVE AREA (ACRE)	74.68 (7011900)	72.94 (7311900)	73.72
EFFECTIVE VOL (ACRE-FT)	380.66 (7011900)	293.48 (7311900)	332.64
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.16 (7311900)	-0.20 (7011900)	-0.18
EVAPORATION TOTAL (CFS)	-0.29 (7161900)	-4.85 (7021900)	-1.41
EVAPORATION NATURL(CFS)	0.00 (7011900)	-3.69 (7031900)	-0.77
EVAPORATION FORCED(CFS)	-0.26 (7271900)	-2.03 (7011900)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	204.97
SURF LOSS (BTU/HR-FT2)	165.32 (7011900)	144.26 (7061900)	151.40
EVAP LOSS (BTU/HR-FT2)	238.54 (7031900)	0.00 (7011900)	50.58
COND LOSS (BTU/HR-FT2)	39.32 (7261900)	-6.71 (7261900)	6.94
LAKE TEMP NATURAL (F)	101.20 (7011900)	82.41 (7061900)	88.96
LAKE TEMP @ INLET (F)	138.51 (7011900)	93.10 (7251900)	99.87
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	83.71 (7061900)	90.03
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7311900)	-0.05 (7011900)	-10.87
TOTAL EVAP TOT (ACRE-FT)	-0.07 (7161900)	-1.20 (7021900)	-86.56
TOTAL EVAP NAT (ACRE-FT)	0.00 (7011900)	-0.92 (7031900)	-47.65
TOTAL EVAP FOR (ACRE-FT)	-0.07 (7271900)	-0.50 (7011900)	-38.91
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.0	88.4
LAKE TEMP @ INLET	(F)	132.0	111.0	98.9
LAKE TEMP @ OUTLET	(F)	103.3	97.0	89.4

Number : 03.7.292-2.2 O
Created : 11/18/2004 08:08:26

Date : 04/11/2006
Time : 08:57:56.82

Case 2b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0.5')

1
2 070100 080500 1 1 0 3 2
3 1 0 20.
4 1 0.2 5500. 0
5 6 2 690

690	82.99	423.5	74.69	381.2
689	81.35	341.3	73.21	307.2
688	79.75	260.8	71.78	234.7
687	78.15	181.8	70.34	163.7
686	29.70	102.2	26.73	92.0
685	22.22	60.0	20.00	54.0

7 1 0 3 18 19 20
8 103.54 99.04

999

FPLANT R/I 86.0

TPRISE S/I

35.48

28.95

16.79

16.39

15.42

15.06

14.61

14.36

13.95

13.52

13.36

13.36

13.36

13.30

12.79

12.79

12.50

12.50

12.30

12.09

12.09

12.09

12.09

12.08

11.56

11.56

11.56

11.56

11.56

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[illegible]

[illegible]

[illegible]

[illegible]

8.31
8.31
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8.31
END

Program : LAKET
Number : 03.7.292-2.2 O
Created : 11/18/2004 08:08:26

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Time : 08:57:56.82

Case 2b: LaSalle UHS (09:00, Worst 5/1/30 Temp; To=104F, 0.5')

RUN 36 DAYS FROM 70100 TO 80500
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	82.990	423.500	74.690	381.200
689.000	81.350	341.300	73.210	307.200
688.000	79.750	260.800	71.780	234.700
687.000	78.150	181.800	70.340	163.700
686.000	29.700	102.200	26.730	92.000
685.000	22.220	60.000	20.000	54.000

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 103.54 99.04

WEATHER STATION ID 0.

Page : 8
Date : 04/11/2006
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[illegible]

[illegible]

Program : LAKET
 Number : 03.7.292-2.2 O
 Created : 11/18/2004 08:08:26

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 Date : 04/11/2006
 Time : 08:57:56.85

Case 2b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104F, 0.5')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	20.00	20.00
LAKE ELEVATION (FEET)	0.00	689.27	688.54	689.17
TOTAL AREA (ACRE)	0.00	81.80	80.62	81.63
TOTAL VOLUME (ACRE-FT)	0.00	363.59	304.46	355.38
EFFECTIVE AREA (ACRE)	0.00	73.61	72.56	73.47
EFFECTIVE VOL (ACRE-FT)	0.00	327.27	274.02	319.87
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.17	-0.15	-0.17
EVAPORATION TOTAL (CFS)	0.00	-1.65	-1.33	-1.61
EVAPORATION NATURL (CFS)	0.00	-1.00	-0.77	-0.97
EVAPORATION FORCED (CFS)	0.00	-0.65	-0.56	-0.64
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	219.94	214.31	219.16
SURF LOSS (BTU/HR-FT2)	0.00	153.80	152.11	153.57
EVAP LOSS (BTU/HR-FT2)	0.00	65.40	50.89	63.38
COND LOSS (BTU/HR-FT2)	0.00	5.52	5.08	5.46
LAKE TEMP NATURAL (F)	0.00	91.12	89.63	90.91
LAKE TEMP @ INLET (F)	0.00	101.78	98.87	101.38
LAKE TEMP @ OUTLET (F)	0.00	91.94	90.58	91.75
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.71	-1.47	-12.17
TOTAL EVAP TOT (ACRE-FT)	0.00	-101.64	-13.14	-114.78
TOTAL EVAP NAT (ACRE-FT)	0.00	-61.51	-7.60	-69.10
TOTAL EVAP FOR (ACRE-FT)	0.00	-40.13	-5.55	-45.68
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

1% 5% 50%

LAKE TEMP NATURAL	(F)	100.5	97.4	90.9
LAKE TEMP @ INLET	(F)	132.0	110.8	101.0
LAKE TEMP @ OUTLET	(F)	103.0	98.2	91.8

Program : LAKET
 Number : 03.7.292-2.2 O
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Case 2b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104F, 0.5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	20.00	20.00
LAKE ELEVATION (FEET)	0.00	689.27	688.54	689.17
TOTAL AREA (ACRE)	0.00	81.80	80.62	81.63
TOTAL VOLUME (ACRE-FT)	0.00	363.59	304.46	355.38
EFFECTIVE AREA (ACRE)	0.00	73.61	72.56	73.47
EFFECTIVE VOL (ACRE-FT)	0.00	327.27	274.02	319.87
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.17	-0.15	-0.17
EVAPORATION TOTAL (CFS)	0.00	-1.65	-1.33	-1.61
EVAPORATION NATURL (CFS)	0.00	-1.00	-0.77	-0.97
EVAPORATION FORCED (CFS)	0.00	-0.65	-0.56	-0.64
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	219.94	214.31	219.16
SURF LOSS (BTU/HR-FT2)	0.00	153.80	152.11	153.57
EVAP LOSS (BTU/HR-FT2)	0.00	65.40	50.89	63.38
COND LOSS (BTU/HR-FT2)	0.00	5.52	5.08	5.46
LAKE TEMP NATURAL (F)	0.00	91.12	89.63	90.91
LAKE TEMP @ INLET (F)	0.00	101.78	98.87	101.38
LAKE TEMP @ OUTLET (F)	0.00	91.94	90.58	91.75
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.71	-1.47	-12.17
TOTAL EVAP TOT (ACRE-FT)	0.00	-101.64	-13.14	-114.78
TOTAL EVAP NAT (ACRE-FT)	0.00	-61.51	-7.60	-69.10
TOTAL EVAP FOR (ACRE-FT)	0.00	-40.13	-5.55	-45.68
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

1% 5% 50%

LAKE TEMP NATURAL (F) 100.5 97.4 90.9
LAKE TEMP @ INLET (F) 132.0 110.8 101.0
LAKE TEMP @ OUTLET (F) 103.0 98.2 91.8

Program : LAKET
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Case 2b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104F, 0.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.44 (8051900)	689.17
TOTAL AREA (ACRE)	82.97 (7011900)	80.46 (8051900)	81.63
TOTAL VOLUME (ACRE-FT)	422.68 (7011900)	296.53 (8051900)	355.38
EFFECTIVE AREA (ACRE)	74.68 (7011900)	72.41 (8051900)	73.47
EFFECTIVE VOL (ACRE-FT)	380.46 (7011900)	266.88 (8051900)	319.87
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.14 (8051900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.32 (8051900)	-4.04 (7051900)	-1.61
EVAPORATION NATURL(CFS)	0.00 (7031900)	-2.76 (7051900)	-0.97
EVAPORATION FORCED(CFS)	-0.27 (7311900)	-1.90 (7011900)	-0.64
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	430.59 (7191900)	101.21 (7221900)	219.16
SURF LOSS (BTU/HR-FT2)	165.64 (7011900)	143.53 (7241900)	153.57
EVAP LOSS (BTU/HR-FT2)	178.04 (7051900)	0.00 (7031900)	63.38
COND LOSS (BTU/HR-FT2)	26.04 (7051900)	-31.64 (7251900)	5.46
LAKE TEMP NATURAL (F)	101.48 (7011900)	81.72 (7241900)	90.91
LAKE TEMP @ INLET (F)	138.41 (7011900)	91.00 (7241900)	101.38
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	82.43 (7241900)	91.75
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00
QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (8051900)	-0.05 (7011900)	-12.17
TOTAL EVAP TOT (ACRE-FT)	-0.08 (8051900)	-1.00 (7051900)	-114.78
TOTAL EVAP NAT (ACRE-FT)	0.00 (7031900)	-0.68 (7051900)	-69.10
TOTAL EVAP FOR (ACRE-FT)	-0.07 (7311900)	-0.47 (7011900)	-45.68
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TEMPERATURE	FREQUENCY OF OCCURENCES		

1% 5% 50%

LAKE TEMP NATURAL	(F)	100.5	97.4	90.9
LAKE TEMP @ INLET	(F)	132.0	110.8	101.0
LAKE TEMP @ OUTLET	(F)	103.0	98.2	91.8

Number : 03.7.292-2.2 O
Created : 11/18/2004 08:08:26

Date : 04/11/2006
Time : 15:49:19.45

Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

1						
2	061854	071754	1	1	0	3 2
3	1	0	20.			
4	1	0.2	5500.	0		
5	6	2	690			
	690	82.99	423.5	74.69	381.2	
	689	81.35	341.3	73.21	307.2	
	688	79.75	260.8	71.78	234.7	
	687	78.15	181.8	70.34	163.7	
	686	29.70	102.2	26.73	92.0	
	685	22.22	60.0	20.00	54.0	
7	1	0	3	18	19	20
8	102.87	98.37				
999						
FPLANT	R/I	86.0				
TPRISE	S/I					
35.48						
28.95						
16.79						
16.39						
15.42						
15.06						
14.61						
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PROJECT NO. 11333-297

[illegible]

[illegible]

[illegible]

[illegible]

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END

Program : LAKET
Number : 03.7.292-2.2 0
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Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

RUN 30 DAYS FROM 61854 TO 71754
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	82.990	423.500	74.690	381.200
689.000	81.350	341.300	73.210	307.200
688.000	79.750	260.800	71.780	234.700
687.000	78.150	181.800	70.340	163.700
686.000	29.700	102.200	26.730	92.000
685.000	22.220	60.000	20.000	54.000

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 102.87 98.37

WEATHER STATION ID 93822.


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Program : LAKET
Number  : 03.7.292-2.2 0
Created : 11/18/2004 08:08:26

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Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

FPLANT

61854 -	71754	R/I	86.000
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TPRISE

[illegible]

8.940	8.940	8.940	8.940
8.940	8.940	8.940	8.940
8.810	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.780	8.780	8.780
8.780	8.610	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.570
8.570	8.570	8.570	8.520

Program : LAKET
 Number : 03.7.292-2.2 O
 Created : 11/18/2004 08:08:26

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 Time : 15:49:19.48

Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

SEASONAL SUMMARY FOR SUMMER (6/1954 - 8/1954)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	20.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	689.60	688.91	0.00	689.21
TOTAL AREA (ACRE)	82.34	81.20	0.00	81.70
TOTAL VOLUME (ACRE-FT)	390.79	333.95	0.00	358.58
EFFECTIVE AREA (ACRE)	74.10	73.08	0.00	73.52
EFFECTIVE VOL (ACRE-FT)	351.75	300.58	0.00	322.75
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	-0.19	-0.16	0.00	-0.17
EVAPORATION TOTAL (CFS)	-2.07	-1.71	0.00	-1.87
EVAPORATION NATURL(CFS)	-1.34	-1.15	0.00	-1.23
EVAPORATION FORCED(CFS)	-0.73	-0.56	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	226.40	221.82	0.00	223.80
SURF LOSS (BTU/HR-FT2)	148.57	145.50	0.00	146.83
EVAP LOSS (BTU/HR-FT2)	87.38	76.20	0.00	81.05
COND LOSS (BTU/HR-FT2)	4.68	0.99	0.00	2.59
LAKE TEMP NATURAL (F)	86.34	83.53	0.00	84.75
LAKE TEMP @ INLET (F)	98.63	93.45	0.00	95.69
LAKE TEMP @ OUTLET (F)	87.33	84.66	0.00	85.82
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	-4.80	-5.43	0.00	-10.23
TOTAL EVAP TOT (ACRE-FT)	-53.43	-57.63	0.00	-111.06
TOTAL EVAP NAT (ACRE-FT)	-34.63	-38.84	0.00	-73.47
TOTAL EVAP FOR (ACRE-FT)	-18.80	-18.80	0.00	-37.59
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

	1%	5%	50%

LAKE TEMP NATURAL (F)	100.0	94.3	84.0
LAKE TEMP @ INLET (F)	133.0	109.0	94.6
LAKE TEMP @ OUTLET (F)	104.0	94.7	85.1

Program : LAKET
 Number : 03.7.292-2.2 0
 Created : 11/18/2004 08:08:26

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Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	20.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	689.60	688.91	0.00	689.21
TOTAL AREA (ACRE)	82.34	81.20	0.00	81.70
TOTAL VOLUME (ACRE-FT)	390.79	333.95	0.00	358.58
EFFECTIVE AREA (ACRE)	74.10	73.08	0.00	73.52
EFFECTIVE VOL (ACRE-FT)	351.75	300.58	0.00	322.75
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	-0.19	-0.16	0.00	-0.17
EVAPORATION TOTAL (CFS)	-2.07	-1.71	0.00	-1.87
EVAPORATION NATURL (CFS)	-1.34	-1.15	0.00	-1.23
EVAPORATION FORCED (CFS)	-0.73	-0.56	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	226.40	221.82	0.00	223.80
SURF LOSS (BTU/HR-FT2)	148.57	145.50	0.00	146.83
EVAP LOSS (BTU/HR-FT2)	87.38	76.20	0.00	81.05
COND LOSS (BTU/HR-FT2)	4.68	0.99	0.00	2.59
LAKE TEMP NATURAL (F)	86.34	83.53	0.00	84.75
LAKE TEMP @ INLET (F)	98.63	93.45	0.00	95.69
LAKE TEMP @ OUTLET (F)	87.33	84.66	0.00	85.82
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	-4.80	-5.43	0.00	-10.23
TOTAL EVAP TOT (ACRE-FT)	-53.43	-57.63	0.00	-111.06
TOTAL EVAP NAT (ACRE-FT)	-34.63	-38.84	0.00	-73.47
TOTAL EVAP FOR (ACRE-FT)	-18.80	-18.80	0.00	-37.59
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

1% 5% 50%

LAKE TEMP NATURAL	(F)	100.0	94.3	84.0
LAKE TEMP @ INLET	(F)	133.0	109.0	94.6
LAKE TEMP @ OUTLET	(F)	104.0	94.7	85.1

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Case 2c: LaSalle UHS (12:00, Worst 30-day Evaporation; To=104F, .5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (6181954)	20.00 (6181954)	20.00
LAKE ELEVATION (FEET)	690.00 (6181954)	688.52 (7171954)	689.21
TOTAL AREA (ACRE)	82.98 (6181954)	80.57 (7171954)	81.70
TOTAL VOLUME (ACRE~FT)	423.22 (6181954)	302.19 (7171954)	358.58
EFFECTIVE AREA (ACRE)	74.68 (6181954)	72.52 (7171954)	73.52
EFFECTIVE VOL (ACRE~FT)	380.95 (6181954)	271.98 (7171954)	322.75
CIRCULATION TIME (HR)	0.00 (6181954)	0.00 (6181954)	0.00
PRECIPITATION (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
MAKEUP TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SEEPAGE (CFS)	-0.15 (7171954)	-0.20 (6181954)	-0.17
EVAPORATION TOTAL (CFS)	-0.52 (6291954)	-5.38 (6181954)	-1.87
EVAPORATION NATURL (CFS)	-0.27 (6221954)	-4.09 (6271954)	-1.23
EVAPORATION FORCED (CFS)	-0.16 (7171954)	-2.39 (6181954)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (6181954)	0.00 (6181954)	0.00
SOLAR GAIN (BTU/HR-FT2)	451.13 (6191954)	90.18 (7071954)	223.80
SURF LOSS (BTU/HR-FT2)	165.46 (6181954)	136.98 (7071954)	146.83
EVAP LOSS (BTU/HR-FT2)	266.76 (6271954)	17.76 (6221954)	81.05
COND LOSS (BTU/HR-FT2)	37.75 (6271954)	-46.98 (7121954)	2.59
LAKE TEMP NATURAL (F)	101.32 (6181954)	75.43 (7071954)	84.75
LAKE TEMP @ INLET (F)	140.00 (6181954)	84.77 (7071954)	95.69
LAKE TEMP @ OUTLET (F)	104.78 (6181954)	75.99 (7071954)	85.82
DISSOLVED SOLIDS (PPM)	0.00 (6181954)	0.00 (6181954)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE~FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL MKUP TOT (ACRE~FT)	0.00 (6181954)	0.00 (6181954)	0.00
TOTAL SEEPAGE (ACRE~FT)	-0.04 (7171954)	-0.05 (6181954)	-10.23
TOTAL EVAP TOT (ACRE~FT)	-0.13 (6291954)	-1.33 (6181954)	-111.06
TOTAL EVAP NAT (ACRE~FT)	-0.07 (6221954)	-1.01 (6271954)	-73.47
TOTAL EVAP FOR (ACRE~FT)	-0.04 (7171954)	-0.59 (6181954)	-37.59
TOTAL BLWD TOT (ACRE~FT)	0.00 (6181954)	0.00 (6181954)	0.00

TEMPERATURE

FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.0	94.3	84.0
LAKE TEMP @ INLET	(F)	133.0	109.0	94.6
LAKE TEMP @ OUTLET	(F)	104.0	94.7	85.1

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Case 3a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104.0F, 1.5')

1									
2	070100	073100	1	1	0		3	2	
3	1	0	20.						
4	1	0.2	5500.	0					
5	6	2	690						
	690	81.35	341.4	73.21	307.2				
	689	79.75	260.8	71.78	234.7				
	688	78.15	181.9	70.34	163.7				
	687	29.70	102.2	26.73	92.0				
	686	22.22	60.0	20.00	54.0				
	685	13.42	43.8	12.08	39.4				
7	1	0	3	18	19	20			
8	102.3	97.8							

999
FPLANT R/I 86.0
TPRISE S/I

35.48
28.95
16.79
16.39
15.42
15.06
14.61
14.36
13.95
13.52
13.36
13.36
13.36
13.30
12.79
12.79
12.50
12.50
12.30
12.09
12.09
12.09
12.09
12.08
11.56
11.56
11.56
11.56
11.56

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

8.31
8.31
8.31
8.31
8.31
8.31
8.31
8.31
END

Program : LAKET
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Case 3a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104.0F, 1.5')

RUN 31 DAYS FROM 70100 TO 73100
PLOT FILE OPTION : 1 CYCLE FLAG: 1 CIRCULATION TIME FLAG: 0
TIME INCREMENT : 3 TIME UNITS: 2

WEATHER FILE OPTION: 1 ANEMOMETER HEIGHT OPTION: 0 ANEMOMETER HEIGHT 20.00

DENSITY: 62.40 SEEPAGE: 0.20 LAKE LENGTH: 5500.00

LAKE ELEVATION OPTION = 2 INITIAL LAKE ELEVATION = 690.00

DRAWDOWN CURVE

ELEVATION	TOTAL AREA	TOTAL VOLUME	EFF AREA	EFF VOLUME
690.000	81.350	341.400	73.210	307.200
689.000	79.750	260.800	71.780	234.700
688.000	78.150	181.900	70.340	163.700
687.000	29.700	102.200	26.730	92.000
686.000	22.220	60.000	20.000	54.000
685.000	13.420	43.800	12.080	39.400

PLOT FILE FREQUENCY 1 (NUMBER OF TIME STEPS)
PLOT FILE FORMAT 0 (0-EXCEL/1-ACGRACE)
NUMBER OF VARIABLES FOR PLOT FILE: 3

PLOT VARIABLES:

18 LAKE TEMP NATURAL (F)
19 LAKE TEMP @ INLET (F)
20 LAKE TEMP @ OUTLET (F)

INITIAL FORCED/NATURAL LAKE TEMPS. = 102.30 97.80

WEATHER STATION ID 0.


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Program : LAKET
Number   : 03.7.292-2.2 0
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Case 3a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104.0F, 1.5')

FPLANT			
70100	-	73100	R/I 86.000

[illegible]

[illegible]

Program : LAKET
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Case 3a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104.0F, 1.5')

SEASONAL SUMMARY FOR SUMMER (6/1900 - 8/1900)

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	0.00	689.35	0.00	689.35
TOTAL AREA (ACRE)	0.00	80.30	0.00	80.30
TOTAL VOLUME (ACRE-FT)	0.00	288.64	0.00	288.64
EFFECTIVE AREA (ACRE)	0.00	72.27	0.00	72.27
EFFECTIVE VOL (ACRE-FT)	0.00	259.74	0.00	259.74
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.17	0.00	-0.17
EVAPORATION TOTAL (CFS)	0.00	-1.38	0.00	-1.38
EVAPORATION NATURL(CFS)	0.00	-0.75	0.00	-0.75
EVAPORATION FORCED(CFS)	0.00	-0.63	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	0.00	204.97
SURF LOSS (BTU/HR-FT2)	0.00	151.18	0.00	151.18
EVAP LOSS (BTU/HR-FT2)	0.00	50.11	0.00	50.11
COND LOSS (BTU/HR-FT2)	0.00	6.81	0.00	6.81
LAKE TEMP NATURAL (F)	0.00	88.75	0.00	88.75
LAKE TEMP @ INLET (F)	0.00	99.49	0.00	99.49
LAKE TEMP @ OUTLET (F)	0.00	89.67	0.00	89.67
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.53	0.00	-10.53
TOTAL EVAP TOT (ACRE-FT)	0.00	-85.15	0.00	-85.15
TOTAL EVAP NAT (ACRE-FT)	0.00	-46.26	0.00	-46.26
TOTAL EVAP FOR (ACRE-FT)	0.00	-38.89	0.00	-38.89
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.0	88.4
LAKE TEMP @ INLET	(F)	132.0	110.0	98.5
LAKE TEMP @ OUTLET	(F)	103.0	97.2	89.2

Program : LAKET
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Case 3a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104.0F, 1.5')

CUMULATIVE SEASONAL SUMMARY: SUMMER

QUANTITY	MONTHLY AVERAGES			AVERAGE VALUE
	JUN	JUL	AUG	
ANEMOMETER HEIGHT (FT)	0.00	20.00	0.00	20.00
LAKE ELEVATION (FEET)	0.00	689.35	0.00	689.35
TOTAL AREA (ACRE)	0.00	80.30	0.00	80.30
TOTAL VOLUME (ACRE-FT)	0.00	288.64	0.00	288.64
EFFECTIVE AREA (ACRE)	0.00	72.27	0.00	72.27
EFFECTIVE VOL (ACRE-FT)	0.00	259.74	0.00	259.74
CIRCULATION TIME (HR)	0.00	0.00	0.00	0.00
PRECIPITATION (CFS)	0.00	0.00	0.00	0.00
MAKEUP TOTAL (CFS)	0.00	0.00	0.00	0.00
SEEPAGE (CFS)	0.00	-0.17	0.00	-0.17
EVAPORATION TOTAL (CFS)	0.00	-1.38	0.00	-1.38
EVAPORATION NATURL (CFS)	0.00	-0.75	0.00	-0.75
EVAPORATION FORCED (CFS)	0.00	-0.63	0.00	-0.63
BLOWDOWN TOTAL (CFS)	0.00	0.00	0.00	0.00
SOLAR GAIN (BTU/HR-FT2)	0.00	204.97	0.00	204.97
SURF LOSS (BTU/HR-FT2)	0.00	151.18	0.00	151.18
EVAP LOSS (BTU/HR-FT2)	0.00	50.11	0.00	50.11
COND LOSS (BTU/HR-FT2)	0.00	6.81	0.00	6.81
LAKE TEMP NATURAL (F)	0.00	88.75	0.00	88.75
LAKE TEMP @ INLET (F)	0.00	99.49	0.00	99.49
LAKE TEMP @ OUTLET (F)	0.00	89.67	0.00	89.67
DISSOLVED SOLIDS (PPM)	0.00	0.00	0.00	0.00

QUANTITY	MONTHLY TOTALS			TOTAL VALUE
	JUN	JUL	AUG	
TOTAL PRECIP (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00	0.00	0.00	0.00
TOTAL SEEPAGE (ACRE-FT)	0.00	-10.53	0.00	-10.53
TOTAL EVAP TOT (ACRE-FT)	0.00	-85.15	0.00	-85.15
TOTAL EVAP NAT (ACRE-FT)	0.00	-46.26	0.00	-46.26
TOTAL EVAP FOR (ACRE-FT)	0.00	-38.89	0.00	-38.89
TOTAL BLWD TOT (ACRE-FT)	0.00	0.00	0.00	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

	1%	5%	50%

LAKE TEMP NATURAL (F)	100.5	97.0	88.4
LAKE TEMP @ INLET (F)	132.0	110.0	98.5
LAKE TEMP @ OUTLET (F)	103.0	97.2	89.2

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Case 3a: LaSalle UHS (09:00, Worst 1/30 Temp; To=104.0F, 1.5')

TOTAL CUMULATIVE SUMMARY

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	AVERAGE VALUE
ANEMOMETER HEIGHT (FT)	20.00 (7011900)	20.00 (7011900)	20.00
LAKE ELEVATION (FEET)	689.99 (7011900)	688.81 (7311900)	689.35
TOTAL AREA (ACRE)	81.34 (7011900)	79.44 (7311900)	80.30
TOTAL VOLUME (ACRE-FT)	340.83 (7011900)	245.71 (7311900)	288.64
EFFECTIVE AREA (ACRE)	73.20 (7011900)	71.50 (7311900)	72.27
EFFECTIVE VOL (ACRE-FT)	306.69 (7011900)	221.12 (7311900)	259.74
CIRCULATION TIME (HR)	0.00 (7011900)	0.00 (7011900)	0.00
PRECIPITATION (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
MAKEUP TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SEEPAGE (CFS)	-0.15 (7311900)	-0.20 (7011900)	-0.17
EVAPORATION TOTAL (CFS)	-0.29 (7161900)	-4.45 (7031900)	-1.38
EVAPORATION NATURL(CFS)	0.00 (7011900)	-3.49 (7031900)	-0.75
EVAPORATION FORCED(CFS)	-0.26 (7271900)	-2.03 (7011900)	-0.63
BLOWDOWN TOTAL (CFS)	0.00 (7011900)	0.00 (7011900)	0.00
SOLAR GAIN (BTU/HR-FT2)	426.50 (7011900)	97.95 (7041900)	204.97
SURF LOSS (BTU/HR-FT2)	165.45 (7011900)	142.94 (7061900)	151.18
EVAP LOSS (BTU/HR-FT2)	229.83 (7031900)	0.00 (7011900)	50.11
COND LOSS (BTU/HR-FT2)	39.52 (7261900)	-7.06 (7261900)	6.81
LAKE TEMP NATURAL (F)	101.31 (7011900)	81.16 (7061900)	88.75
LAKE TEMP @ INLET (F)	138.06 (7011900)	91.97 (7251900)	99.49
LAKE TEMP @ OUTLET (F)	104.00 (7011900)	82.18 (7061900)	89.67
DISSOLVED SOLIDS (PPM)	0.00 (7011900)	0.00 (7011900)	0.00

QUANTITY	MAXIMUM VALUE (DATE)	MINIMUM VALUE (DATE)	TOTAL VALUE
TOTAL PRECIP (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL MKUP TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00
TOTAL SEEPAGE (ACRE-FT)	-0.04 (7311900)	-0.05 (7011900)	-10.53
TOTAL EVAP TOT (ACRE-FT)	-0.07 (7161900)	-1.10 (7031900)	-85.15
TOTAL EVAP NAT (ACRE-FT)	0.00 (7011900)	-0.86 (7031900)	-46.26
TOTAL EVAP FOR (ACRE-FT)	-0.06 (7271900)	-0.50 (7011900)	-38.89
TOTAL BLWD TOT (ACRE-FT)	0.00 (7011900)	0.00 (7011900)	0.00

TEMPERATURE FREQUENCY OF OCCURENCES

		1%	5%	50%

LAKE TEMP NATURAL	(F)	100.5	97.0	88.4
LAKE TEMP @ INLET	(F)	132.0	110.0	98.5
LAKE TEMP @ OUTLET	(F)	103.0	97.2	89.2

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Created : 11/18/2004 08:08:26

Date : 04/07/2006
Time : 13:54:23.56

Case 3b: LaSalle UHS (09:00, Worst 5/1/30 Day Temp; To=104.0F, 1.5')

1
2 070100 080500 1 1 0 3 2
3 1 0 20.
4 1 0.2 5500. 0
5 6 2 690

690	81.35	341.4	73.21	307.2
689	79.75	260.8	71.78	234.7
688	78.15	181.9	70.34	163.7
687	29.70	102.2	26.73	92.0
686	22.22	60.0	20.00	54.0
685	13.42	43.8	12.08	39.4

7 1 0 3 18 19 20
8 102.86 98.36

999
FPLANT R/I 86.0
TPRISE S/I

35.48
28.95
16.79
16.39
15.42
15.06
14.61
14.36
13.95
13.52
13.36
13.36
13.36
13.30
12.79
12.79
12.50
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12.30
12.09
12.09
12.09
12.09
12.08
11.56
11.56
11.56
11.56
11.56

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