

PINE BLUFF/GRIDER AR

Latitude = 34.18 N

WMO No. 723417

Longitude = 91.93 W

Elevation = 207 feet

Period of Record = 1973 to 1996

Average Pressure = 29.80 inches Hg

Design Criteria Data

	Design Value	Mean Coincident (Average) Values			
		Wet Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Dry Bulb Temperature (T)	(°F)				
Median of Extreme Highs	100	78	110	6.1	WSW
0.4% Occurrence	97	78	113	6.1	WSW
1.0% Occurrence	95	77	114	6.5	WSW
2.0% Occurrence	93	77	114	6.7	SW
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	28	26	15	6.9	N
99.0% Occurrence	23	21	11	8.3	N
99.6% Occurrence	19	17	9	8.4	N
Median of Extreme Lows	12	10	5	10.3	N
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Humidity Ratio (gr/lb)	Wind Speed (mph)	Prevailing Direction (NSEW)
Wet Bulb Temperature (T_{wb})	(°F)				
Median of Extreme Highs	82	94	141	6.4	WSW
0.4% Occurrence	80	92	132	6.0	WSW
1.0% Occurrence	79	91	129	5.9	WSW
2.0% Occurrence	78	89	125	5.9	WSW
	Design Value	Mean Coincident (Average) Values			
		Dry Bulb Temperature (°F)	Vapor Pressure (in. Hg)	Wind Speed (mph)	Prevailing Direction (NSEW)
Humidity Ratio (HR)	(gr/lb)				
Median of Extreme Highs	153	88	1.00	5.3	SW
0.4% Occurrence	141	87	0.94	4.5	WSW
1.0% Occurrence	136	86	0.90	4.5	WSW
2.0% Occurrence	132	85	0.88	4.9	WSW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		202	1643	1494	2767

Other Site Data

Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	3.8	90	3.8 + 1.9
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
66.0	N/A	N/A	24

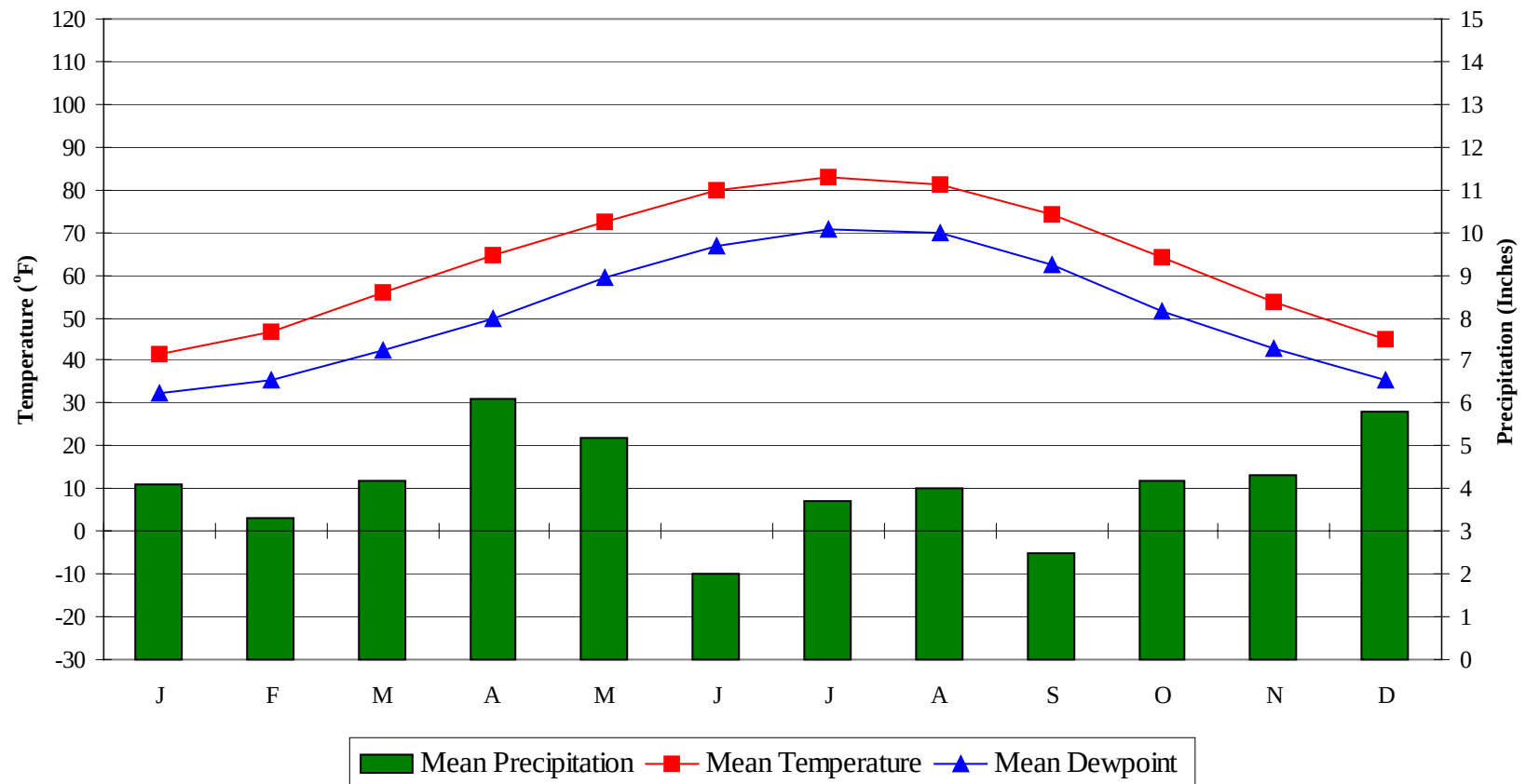
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

PINE BLUFF/GRIDER

AR

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Average Annual Climate

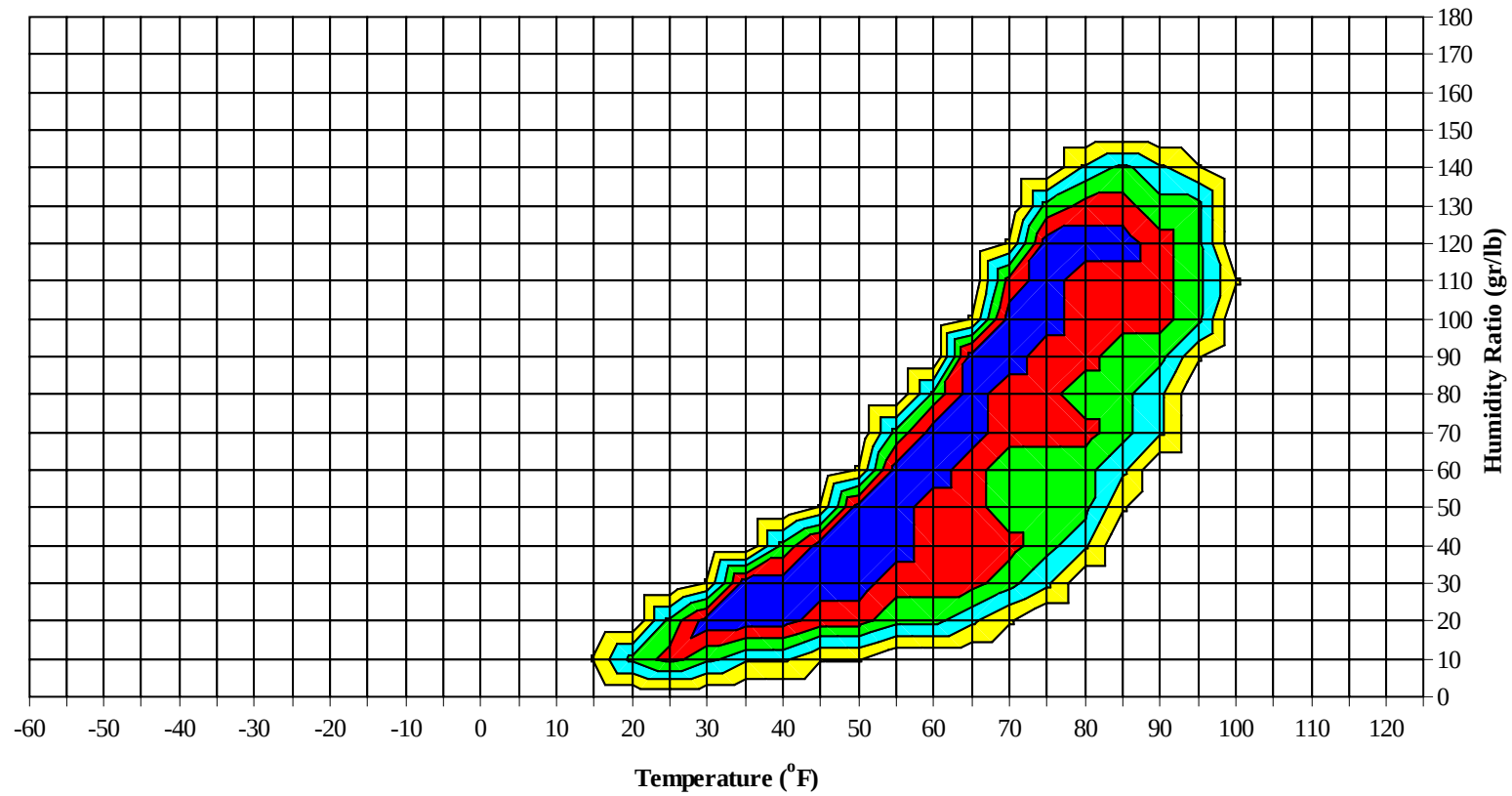


PINE BLUFF/GRIDER

AR

WMO No. 723417

Long Term Psychrometric Summary

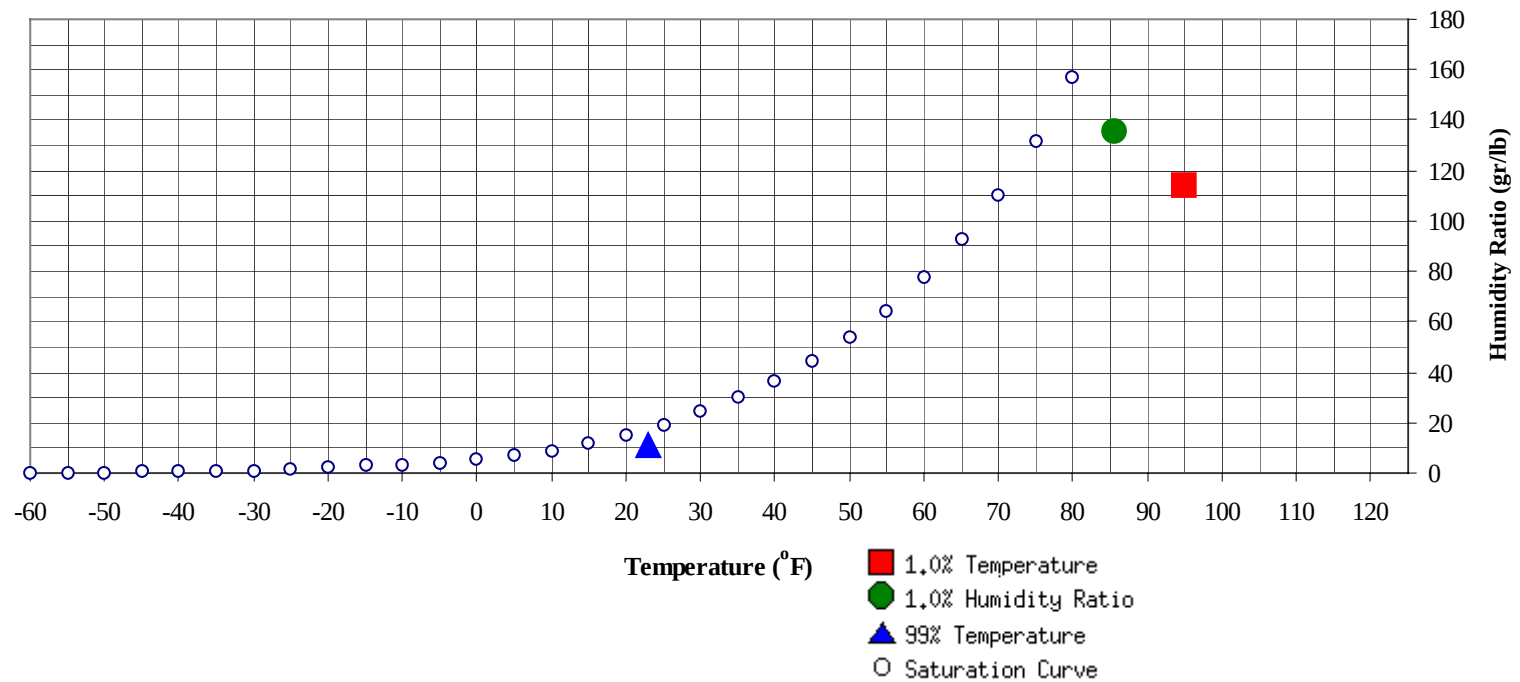


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

PINE BLUFF/GRIDER AR

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Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	23	11.4	7.3		135.8	85.5	78.5	75.9	41.8

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	95	114.1	77.5	40.8

PINE BLUFF/GRIDER AR

WMO No. 723417

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	January					February					March				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109															
100 / 104															
95 / 99															
90 / 94												0	0	0	69.0
85 / 89											0	1	0	1	65.3
80 / 84							1	0	1	62.1	0	7	2	9	63.6
75 / 79		1	0	1	65.4		4	1	5	61.7	0	18	9	27	62.8
70 / 74		3	1	4	61.3	0	11	4	15	59.7	4	30	22	55	61.2
65 / 69	1	10	4	16	58.1	4	18	14	36	58.1	17	33	31	81	58.3
60 / 64	9	17	13	39	55.5	9	24	21	54	54.4	23	38	42	103	54.3
55 / 59	8	22	16	46	50.6	16	28	27	70	50.6	38	38	42	118	50.8
50 / 54	14	28	27	69	46.4	21	28	35	85	46.6	40	31	36	107	46.5
45 / 49	24	34	38	96	42.4	30	28	38	96	42.3	39	24	29	93	42.3
40 / 44	43	39	42	124	38.6	43	25	30	98	38.1	35	16	19	70	37.9
35 / 39	47	38	41	126	34.1	38	24	22	83	33.8	31	8	12	51	34.1
30 / 34	46	28	33	107	29.8	32	17	18	67	29.3	16	4	3	23	29.8
25 / 29	31	18	19	68	24.9	18	9	8	35	24.8	3	1	1	4	24.4
20 / 24	13	9	9	31	20.1	9	5	5	19	20.0	1	1		2	19.2
15 / 19	8	2	3	12	15.4	4	1	1	6	15.4					
10 / 14	3	1	1	4	10.0	1	1	0	2	11.0					
5 / 9	1	0	0	1	5.5	0		0	0	6.8					
0 / 4	0	0		0	0.1										
-5 / -1															

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

PINE BLUFF/GRIDER AR

WMO No. 723417

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	April					May					June				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109															
100 / 104											0	0		0	81.1
95 / 99		0		0	66.0						0	8	1	9	77.4
90 / 94		1	0	1	67.8		7	2	9	74.2	0	51	20	71	75.6
85 / 89		7	2	9	67.9	0	41	17	59	71.9	1	76	46	123	73.5
80 / 84		27	11	38	65.9	2	57	37	96	69.5	20	55	65	140	72.2
75 / 79	1	43	27	71	64.4	16	51	54	122	67.4	73	32	65	169	70.7
70 / 74	15	45	42	102	62.4	56	45	57	157	65.1	90	14	33	138	68.3
65 / 69	37	45	48	130	59.2	74	27	46	148	62.0	41	4	9	54	63.9
60 / 64	45	31	42	119	55.3	49	13	23	85	57.7	13	0	1	14	59.0
55 / 59	43	22	31	96	51.1	32	4	8	44	53.4	2			2	55.0
50 / 54	42	12	22	75	47.0	15	2	3	20	48.9					
45 / 49	34	5	10	49	43.1	3		0	3	44.9					
40 / 44	15	2	4	21	39.1	0		0	0	42.0					
35 / 39	6	0	0	6	34.8										
30 / 34	1			1	31.2										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	July					August					September				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109		1	0	1	77.3										
100 / 104		6	1	7	78.0		2	0	2	78.0		1		1	73.8
95 / 99		31	7	38	78.0		24	6	30	77.7		5	0	5	75.4
90 / 94		79	34	113	77.0	0	63	21	84	77.0		24	6	30	74.9
85 / 89	6	68	52	126	75.7	1	73	46	121	75.3	0	45	18	63	73.2
80 / 84	33	41	72	146	74.5	20	52	70	142	74.0	2	56	39	97	71.2
75 / 79	120	18	58	196	73.0	95	24	68	187	72.5	30	47	59	136	69.9
70 / 74	75	5	22	101	70.2	92	8	30	130	69.5	74	33	56	162	67.1
65 / 69	13	0	2	15	65.3	30	1	6	37	64.8	53	18	32	103	62.4
60 / 64	1		0	1	60.9	8		1	9	59.9	35	8	18	61	57.9
55 / 59						1			1	55.9	25	3	11	39	53.4
50 / 54						0			0	50.0	15	0	2	17	49.3
45 / 49											6			6	45.3
40 / 44											0			0	42.5
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															

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PINE BLUFF/GRIDER AR

WMO No. 723417

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1973 to 1996

Temperature Range (°F)	October					November					December				
	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00			01 To 08	09 To 16	17 To 00		
105 / 109															
100 / 104															
95 / 99															
90 / 94		1		1	72.8										
85 / 89		11	1	13	69.1										
80 / 84	0	29	8	36	67.6		3		3	65.3					
75 / 79	1	47	20	67	65.1		15	3	18	65.4		1	0	1	67.2
70 / 74	15	48	44	107	63.4	6	23	12	42	63.7	1	8	3	12	63.8
65 / 69	38	43	51	132	60.1	15	30	25	71	60.5	5	17	9	31	60.6
60 / 64	42	36	46	124	55.9	21	34	30	84	55.7	13	20	16	49	56.5
55 / 59	46	18	37	101	52.2	26	38	38	102	51.2	16	31	24	71	51.2
50 / 54	48	10	24	82	48.3	31	36	39	106	46.6	19	37	30	86	46.7
45 / 49	34	5	13	52	44.1	40	30	39	109	42.7	30	39	45	114	42.5
40 / 44	18	1	3	22	39.9	40	18	30	88	38.4	40	38	45	123	38.2
35 / 39	5	0	1	6	35.4	35	8	14	57	34.0	44	29	36	109	33.9
30 / 34	1	0	0	1	30.4	18	2	7	28	29.9	43	15	23	81	29.7
25 / 29	0			0	27.0	8	1	2	11	25.1	19	6	9	35	24.7
20 / 24						1	0		1	21.6	8	3	5	16	19.9
15 / 19						0			0	16.0	5	2	2	10	15.5
10 / 14											1	1	1	3	9.6
5 / 9											1	0	0	1	5.7
0 / 4											1	0	0	1	1.8
-5 / -1											0			0	

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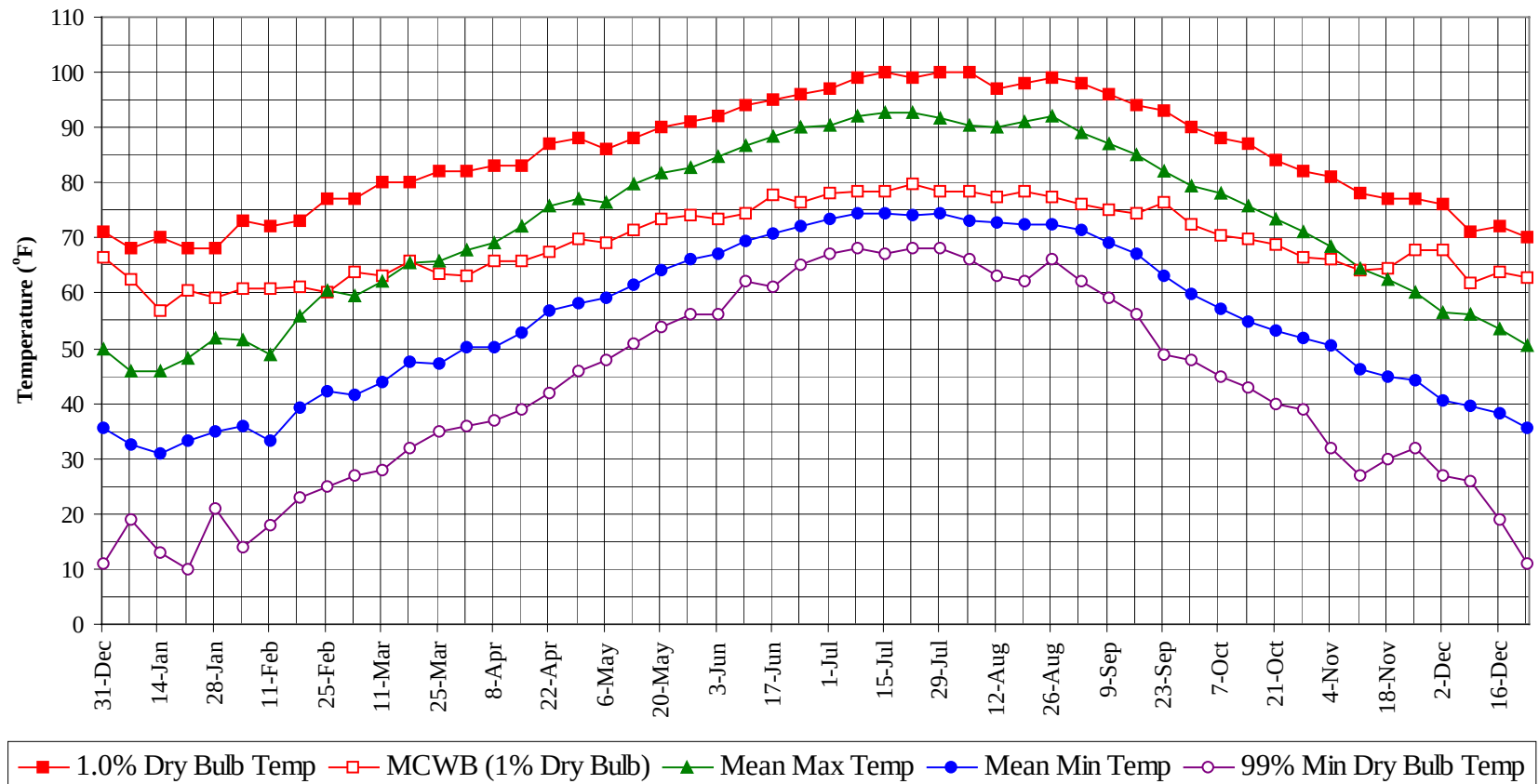
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

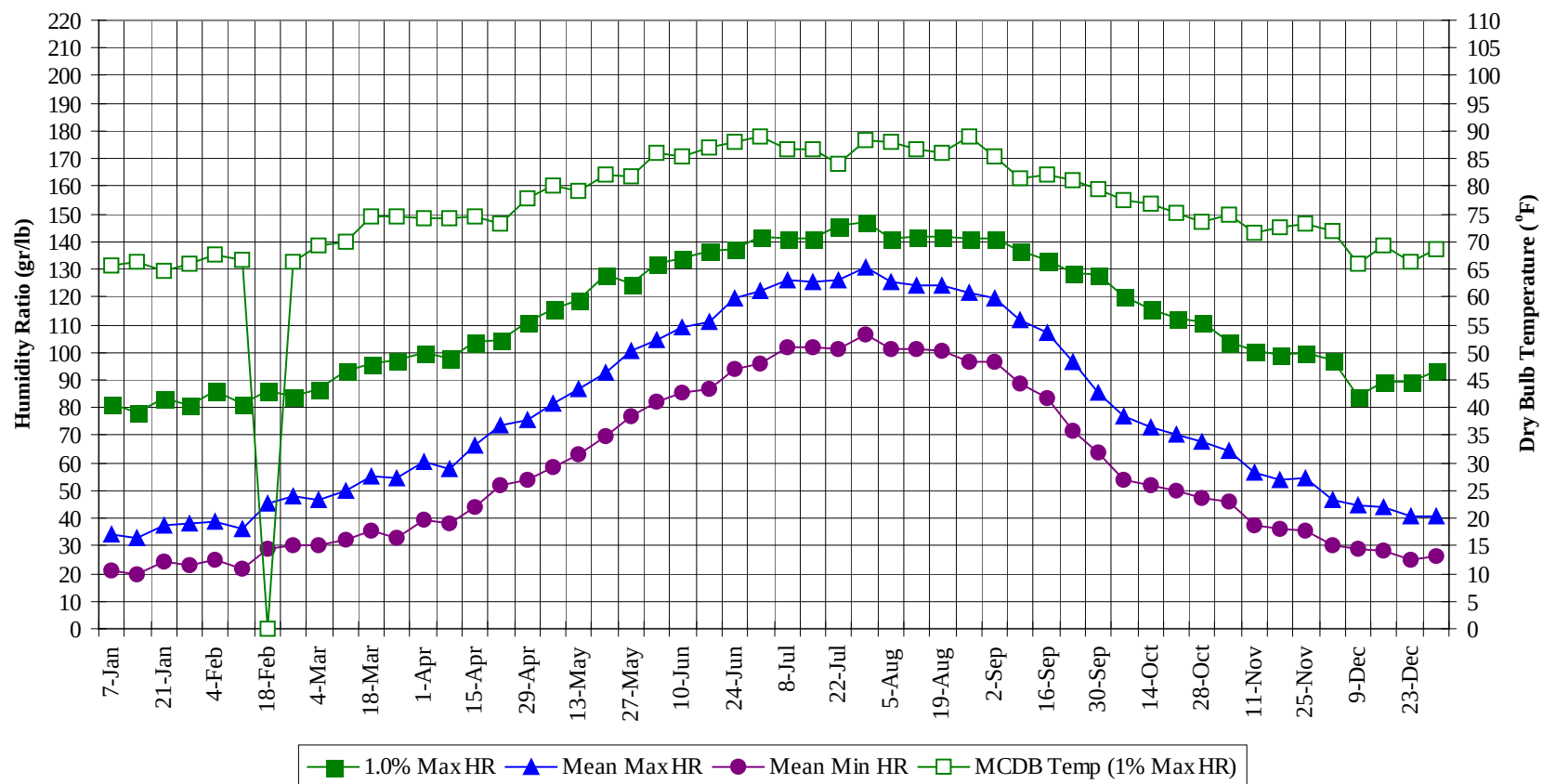
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109		1	0	1	77.3
100 / 104	0	9	1	10	77.9
95 / 99	0	66	14	80	77.7
90 / 94	0	223	77	300	76.4
85 / 89	10	318	171	499	74.0
80 / 84	81	324	286	691	71.6
75 / 79	350	298	347	994	69.5
70 / 74	441	273	316	1030	65.8
65 / 69	335	247	275	857	60.8
60 / 64	269	223	257	749	55.9
55 / 59	251	206	242	699	51.4
50 / 54	241	186	228	654	46.9
45 / 49	234	168	224	626	42.6
40 / 44	226	140	183	549	38.4
35 / 39	197	109	134	440	34.0
30 / 34	153	68	90	311	29.7
25 / 29	77	36	42	155	24.9
20 / 24	31	17	21	69	20.0
15 / 19	16	6	8	29	15.4
10 / 14	5	2	2	9	10.1
5 / 9	2	1	1	4	5.7
0 / 4	1	0	0	1	1.2
-5 / -1	0			0	

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

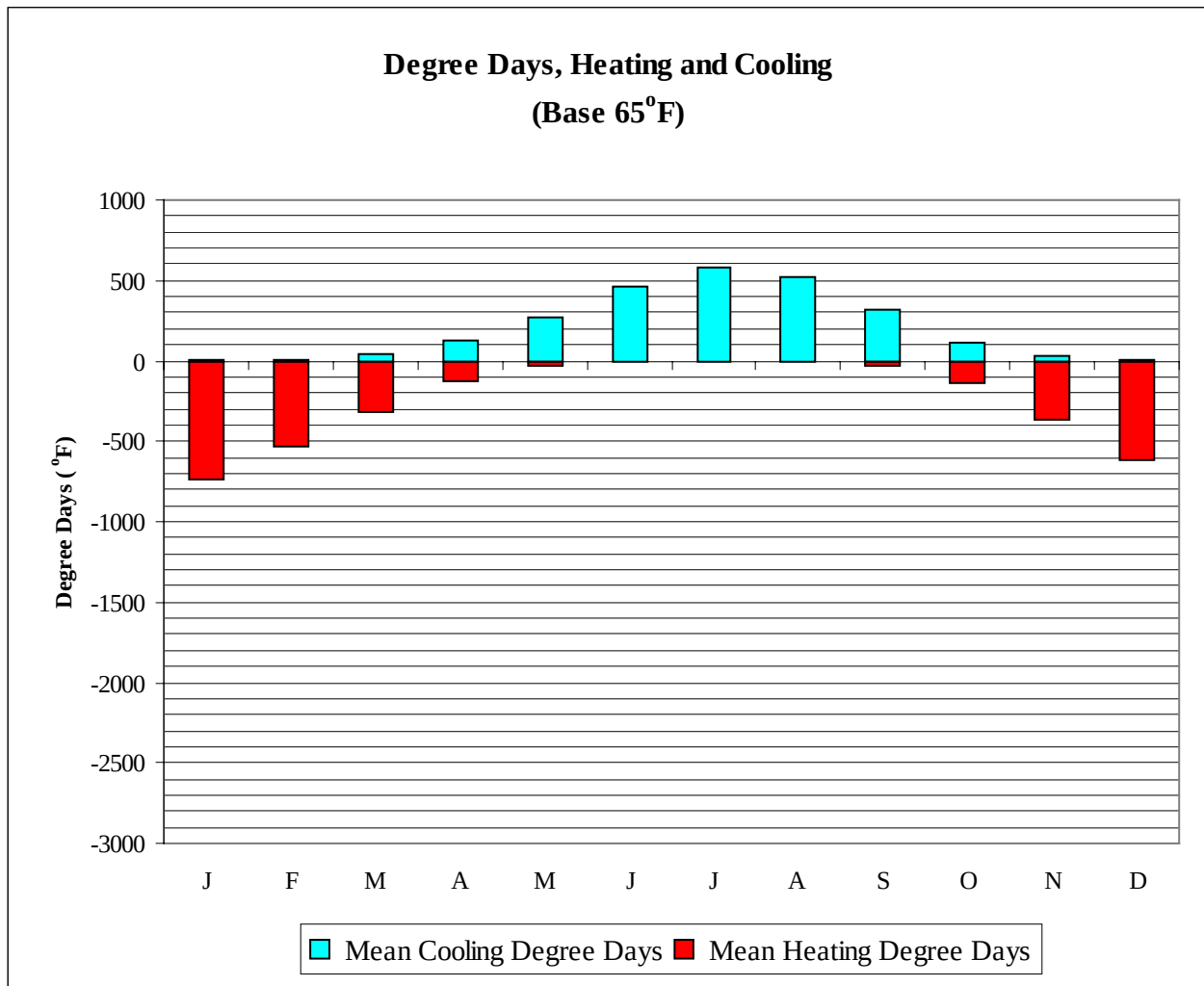


PINE BLUFF/GRIDER AR

WMO No. 723417

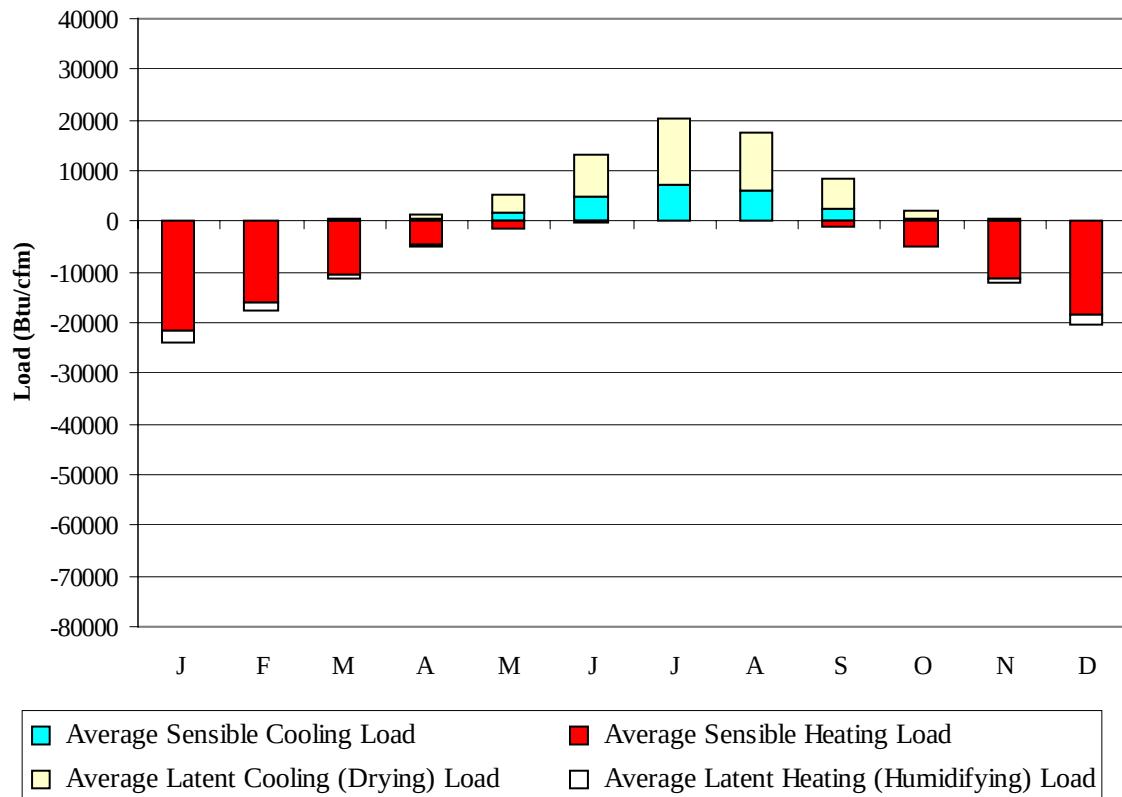
Long Term Dry Bulb Temperature and Humidity Summary

Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	68.0	62.5	46.0	32.7	19.0	81.2	65.6	34.1	21.3
14-Jan	70.0	56.9	45.8	30.9	13.0	78.4	66.4	32.8	19.5
21-Jan	68.0	60.4	48.1	33.4	10.0	83.3	64.7	37.6	24.2
28-Jan	68.0	59.2	52.0	35.0	21.0	80.5	65.9	38.0	23.1
4-Feb	73.0	60.8	51.5	35.7	14.0	86.1	67.5	38.7	25.0
11-Feb	72.0	60.9	48.9	33.3	18.0	81.2	66.6	36.3	21.9
18-Feb	73.0	61.3	55.7	39.1	23.0	85.8	.	45.6	29.0
25-Feb	77.0	60.2	60.4	42.0	25.0	84.0	66.5	47.6	30.1
4-Mar	77.0	63.8	59.3	41.7	27.0	86.8	69.4	46.4	29.9
11-Mar	80.0	63.3	62.2	43.9	28.0	93.1	69.9	50.1	32.4
18-Mar	80.0	65.9	65.6	47.5	32.0	95.9	74.6	54.9	35.2
25-Mar	82.0	63.3	65.9	47.2	35.0	97.3	74.6	54.4	33.2
1-Apr	82.0	63.3	67.7	50.1	36.0	100.1	74.3	60.5	39.6
8-Apr	83.0	65.9	69.0	50.3	37.0	98.0	74.2	57.8	38.0
15-Apr	83.0	65.7	72.1	52.9	39.0	103.6	74.6	66.1	44.1
22-Apr	87.0	67.4	75.7	56.9	42.0	104.3	73.4	73.3	51.9
29-Apr	88.0	69.7	77.0	58.1	46.0	111.3	77.7	75.5	54.1
6-May	86.0	69.0	76.3	59.0	48.0	115.5	80.1	81.1	58.4
13-May	88.0	71.5	79.7	61.5	51.0	119.0	79.1	86.8	63.4
20-May	90.0	73.5	81.9	64.2	54.0	128.1	82.1	92.4	69.6
27-May	91.0	74.2	82.8	66.2	56.0	124.6	81.7	100.5	77.1
3-Jun	92.0	73.5	84.7	67.2	56.0	132.3	86.2	104.6	82.1
10-Jun	94.0	74.5	86.8	69.4	62.0	133.7	85.5	108.8	85.3
17-Jun	95.0	77.7	88.4	70.8	61.0	136.5	86.9	110.8	86.9
24-Jun	96.0	76.6	90.0	72.3	65.0	137.2	88.0	119.5	94.0
1-Jul	97.0	78.3	90.3	73.4	67.0	142.1	89.1	121.9	95.9
8-Jul	99.0	78.6	92.0	74.4	68.0	141.4	86.8	126.3	102.1
15-Jul	100.0	78.3	92.6	74.5	67.0	141.4	86.6	125.7	101.7
22-Jul	99.0	79.6	92.9	74.2	68.0	145.6	84.2	125.8	101.3
29-Jul	100.0	78.4	91.7	74.3	68.0	147.0	88.2	130.6	106.2
5-Aug	100.0	78.5	90.3	73.1	66.0	141.4	87.9	125.3	101.4
12-Aug	97.0	77.4	90.2	72.6	63.0	142.1	86.7	124.1	101.1
19-Aug	98.0	78.5	91.0	72.6	62.0	142.1	86.1	124.0	100.5
26-Aug	99.0	77.4	91.9	72.5	66.0	141.4	89.1	121.6	96.5
2-Sep	98.0	76.1	89.0	71.3	62.0	141.4	85.4	119.3	96.3
9-Sep	96.0	75.1	87.2	69.3	59.0	136.5	81.3	111.5	88.7
16-Sep	94.0	74.6	85.2	67.1	56.0	133.0	82.1	107.4	83.5
23-Sep	93.0	76.4	82.1	63.2	49.0	128.8	81.0	96.6	71.7
30-Sep	90.0	72.5	79.6	59.7	48.0	128.1	79.5	85.3	63.5
7-Oct	88.0	70.6	78.1	57.1	45.0	120.4	77.6	76.5	53.9
14-Oct	87.0	69.7	75.7	54.8	43.0	115.5	76.7	72.6	51.7
21-Oct	84.0	68.7	73.6	53.2	40.0	112.0	75.1	70.3	49.9
28-Oct	82.0	66.4	71.0	51.7	39.0	111.3	73.4	67.6	47.3
4-Nov	81.0	66.3	68.4	50.6	32.0	103.6	74.9	64.3	45.9
11-Nov	78.0	64.0	64.5	46.3	27.0	100.8	71.7	56.6	37.3
18-Nov	77.0	64.5	62.6	44.8	30.0	99.4	72.4	53.9	36.1
25-Nov	77.0	67.8	60.3	44.1	32.0	100.1	73.3	54.8	35.2
2-Dec	76.0	67.6	56.4	40.7	27.0	97.3	71.9	46.9	30.0
9-Dec	71.0	61.9	56.0	39.7	26.0	84.0	65.9	44.5	28.6
16-Dec	72.0	63.9	53.5	38.2	19.0	89.6	69.1	44.3	28.0
23-Dec	70.0	62.8	50.4	35.5	11.0	89.6	66.3	40.5	25.3
31-Dec	71.0	66.4	49.8	35.6	11.0	93.1	68.8	40.8	26.6



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	3	742
FEB	11	531
MAR	43	323
APR	122	128
MAY	265	27
JUN	459	1
JUL	579	0
AUG	521	1
SEP	317	25
OCT	118	136
NOV	30	361
DEC	6	617
ANN	2474	2892

Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)



	Average Sensible Cooling Load	Average Sensible Heating Load	Average Latent Cooling Load	Average Latent Heating Load
	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)	(Btu/cfm)
JAN	1	-21704	23	-2425
FEB	15	-15881	44	-1744
MAR	111	-10369	228	-842
APR	538	-4621	823	-209
MAY	1795	-1267	3573	-17
JUN	4756	-104	8519	0
JUL	7075	-13	13001	0
AUG	5871	-65	11509	0
SEP	2662	-1071	5856	-8
OCT	527	-4953	1386	-133
NOV	43	-11422	437	-858
DEC	1	-18396	106	-1950
ANN	23395	-89866	45505	-8186

Average Annual Solar Radiation – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)

City: LITTLE ROCK
 State: AR
 WBAN No: 13963
 Lat(N): 34.73
 Long(W): 92.23
 Elev(ft): 266

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.386
 Vert Gap: 0.283

AVERAGE INCIDENT SOLAR RADIATION (Btu/sq.ft./day), Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Global	800	1040	1370	1690	1920	2070	2040	1880	1520	1240	860	710	1430
	Std Dev	61	74	116	127	122	112	129	114	107	111	76	64	42
	Minimum	670	910	1170	1420	1700	1820	1790	1670	1300	990	700	600	1360
	Maximum	940	1190	1640	1970	2200	2300	2330	2080	1740	1450	980	830	1520
	Diffuse	360	450	580	710	820	850	830	750	650	470	380	330	600
Clear Day	Global	1110	1450	1880	2300	2540	2610	2530	2320	1960	1530	1150	1000	1870
NORTH	Global	230	290	370	450	560	640	600	500	400	320	250	210	400
	Diffuse	230	290	370	440	510	530	520	470	400	320	250	210	380
Clear Day	Global	220	270	340	430	590	690	630	480	380	300	230	200	400
EAST	Global	510	640	790	950	1030	1110	1130	1060	870	760	540	460	820
	Diffuse	280	350	450	540	610	640	630	580	500	390	300	250	460
Clear Day	Global	780	970	1170	1340	1410	1410	1380	1300	1180	980	790	710	1120
SOUTH	Global	1130	1170	1100	930	770	690	730	900	1060	1260	1130	1060	990
	Diffuse	380	440	500	540	550	550	550	560	540	480	400	350	490
Clear Day	Global	1970	1940	1690	1250	900	750	810	1070	1470	1790	1890	1920	1450
WEST	Global	520	660	820	970	1070	1120	1080	1050	910	780	560	470	840
	Diffuse	280	360	450	550	620	650	640	600	510	400	300	260	470
Clear Day	Global	780	970	1170	1340	1410	1410	1380	1300	1180	980	790	710	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

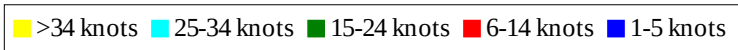
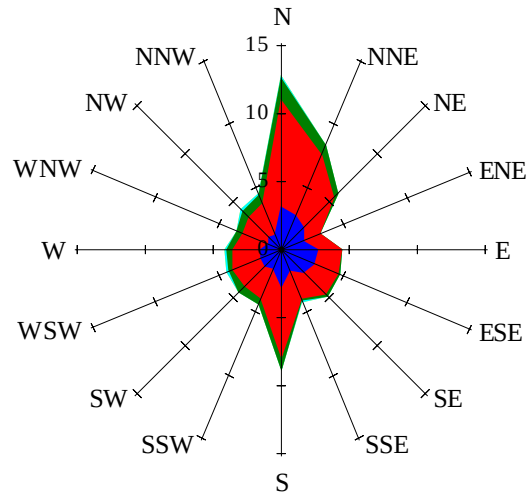
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

AVERAGE TRANSMITTED SOLAR RADIATION (Btu/sq.ft./day) FOR DOUBLE GLAZING, Percentage Uncertainty = 9		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
HORIZ	Unshaded	530	730	980	1220	1400	1510	1490	1370	1090	880	580	470	1020
NORTH	Unshaded	160	200	260	310	370	410	390	330	280	220	170	150	270
	Shaded	150	190	240	280	340	370	360	310	260	210	160	130	250
EAST	Unshaded	350	450	560	680	730	790	800	750	620	530	370	310	580
	Shaded	330	410	510	610	660	710	720	680	560	490	350	290	530
SOUTH	Unshaded	840	840	750	590	460	420	440	550	690	890	830	800	670
	Shaded	830	800	620	430	360	360	360	400	550	800	810	780	590
WEST	Unshaded	360	470	580	690	760	800	770	740	640	550	390	330	590
	Shaded	340	430	530	630	680	720	690	670	590	500	360	300	540

AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	41	77	89	72	32	44	84	103	98	69
	M.Cloudy	22	47	56	44	20	29	60	78	76	53
NORTH	M.Clear	10	14	15	14	9	22	17	17	18	16
	M.Cloudy	9	16	18	15	8	15	18	19	19	17
EAST	M.Clear	77	60	15	14	9	74	74	34	18	16
	M.Cloudy	25	33	18	15	8	37	50	30	19	17
SOUTH	M.Clear	37	69	78	64	29	12	25	38	35	17
	M.Cloudy	16	36	43	34	14	11	22	33	31	17
WEST	M.Clear	10	14	21	68	71	12	17	17	51	77
	M.Cloudy	9	16	20	35	27	11	18	19	42	54
M.Clear	(% hrs)	35	35	36	35	35	44	42	34	32	39
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	27	69	89	82	51	19	49	56	38	5
	M.Cloudy	16	43	61	60	36	10	27	32	21	4
NORTH	M.Clear	9	15	17	17	13	6	11	12	9	3
	M.Cloudy	7	15	18	18	13	5	11	12	9	2
EAST	M.Clear	62	72	32	17	13	49	44	12	9	3
	M.Cloudy	21	36	26	18	13	12	19	12	9	2
SOUTH	M.Clear	18	52	69	64	37	42	83	91	69	13
	M.Cloudy	10	29	44	43	24	11	29	34	23	4
WEST	M.Clear	9	15	17	52	74	6	11	21	54	20
	M.Cloudy	7	15	18	37	41	5	11	15	19	5
M.Clear	(% hrs)	43	44	38	38	42	35	34	35	38	39

Wind Summary - December, January, and February

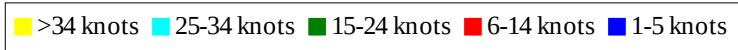
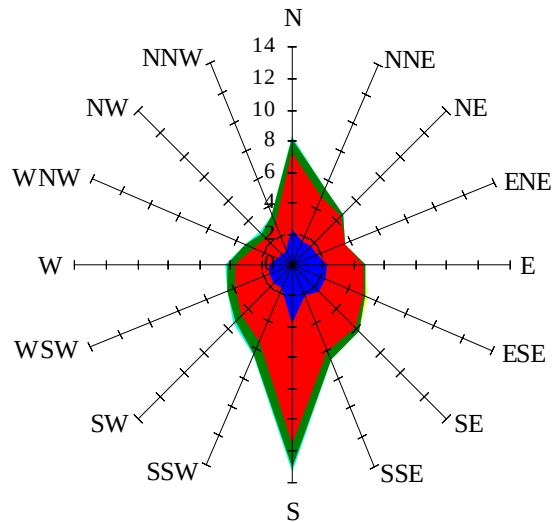
Labels of Percent Frequency on North Axis



Percent Calm = 15.39

Wind Summary - March, April, and May

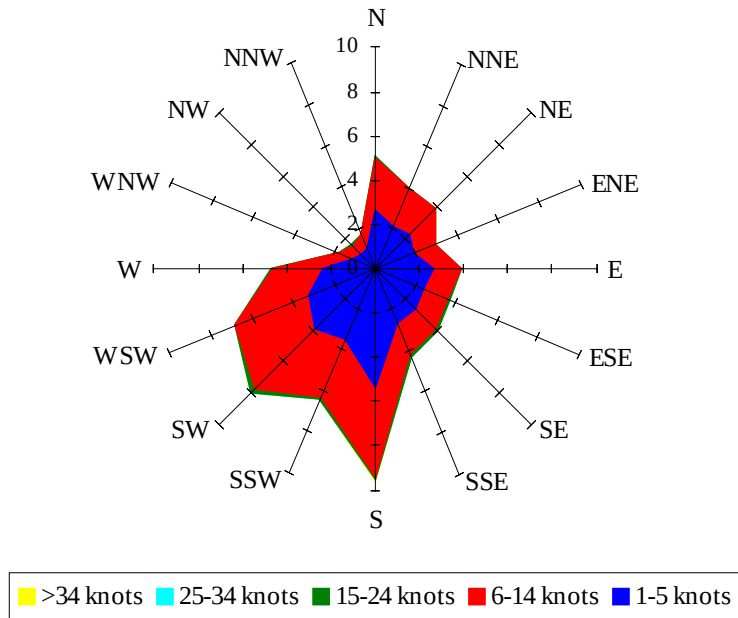
Labels of Percent Frequency on North Axis



Percent Calm = 13.33

Wind Summary - June, July, and August

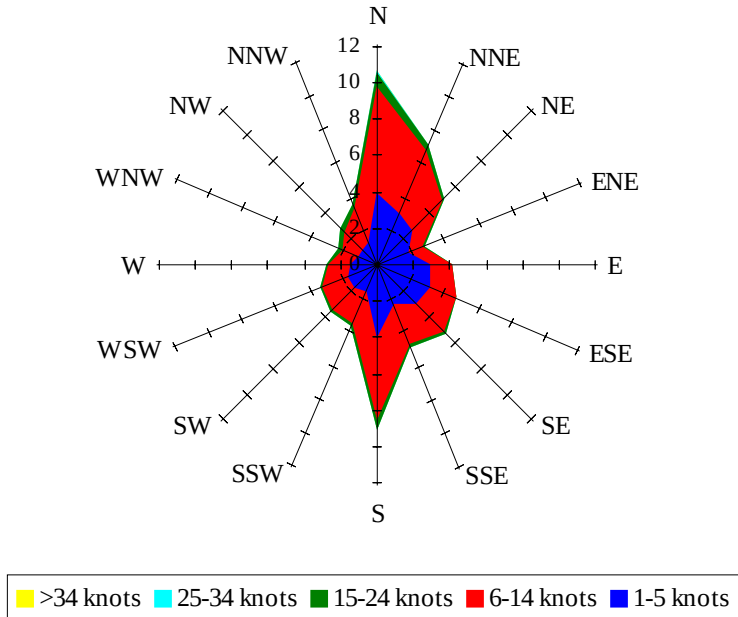
Labels of Percent Frequency on North Axis



Percent Calm = 28.37

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 25.18