

LITTLE ROCK AFB AR

Latitude = 34.92 N

WMO No. 723405

Longitude = 92.15 W

Elevation = 312 feet

Period of Record = 1967 to 1996

Average Pressure = 29.68 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	8.0	S
0.4% Occurrence	98	78	111	7.4	S
1.0% Occurrence	95	77	114	7.2	S
2.0% Occurrence	92	77	115	6.6	S
Mean Daily Range	20	-	-	-	-
97.5% Occurrence	26	23	13	4.1	N
99.0% Occurrence	21	19	11	4.5	N
99.6% Occurrence	16	14	8	4.9	NNW
Median of Extreme Lows	12	10	7	5.1	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	83	94	154	6.0	S
0.4% Occurrence	81	92	143	6.1	S
1.0% Occurrence	80	91	137	6.2	S
2.0% Occurrence	78	89	128	5.7	S
	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	158	89	1.04	3.7	S
0.4% Occurrence	147	86	0.97	5.2	S
1.0% Occurrence	138	84	0.90	5.7	S
2.0% Occurrence	133	84	0.88	4.4	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		171	1443	1378	2739

Other Site Data

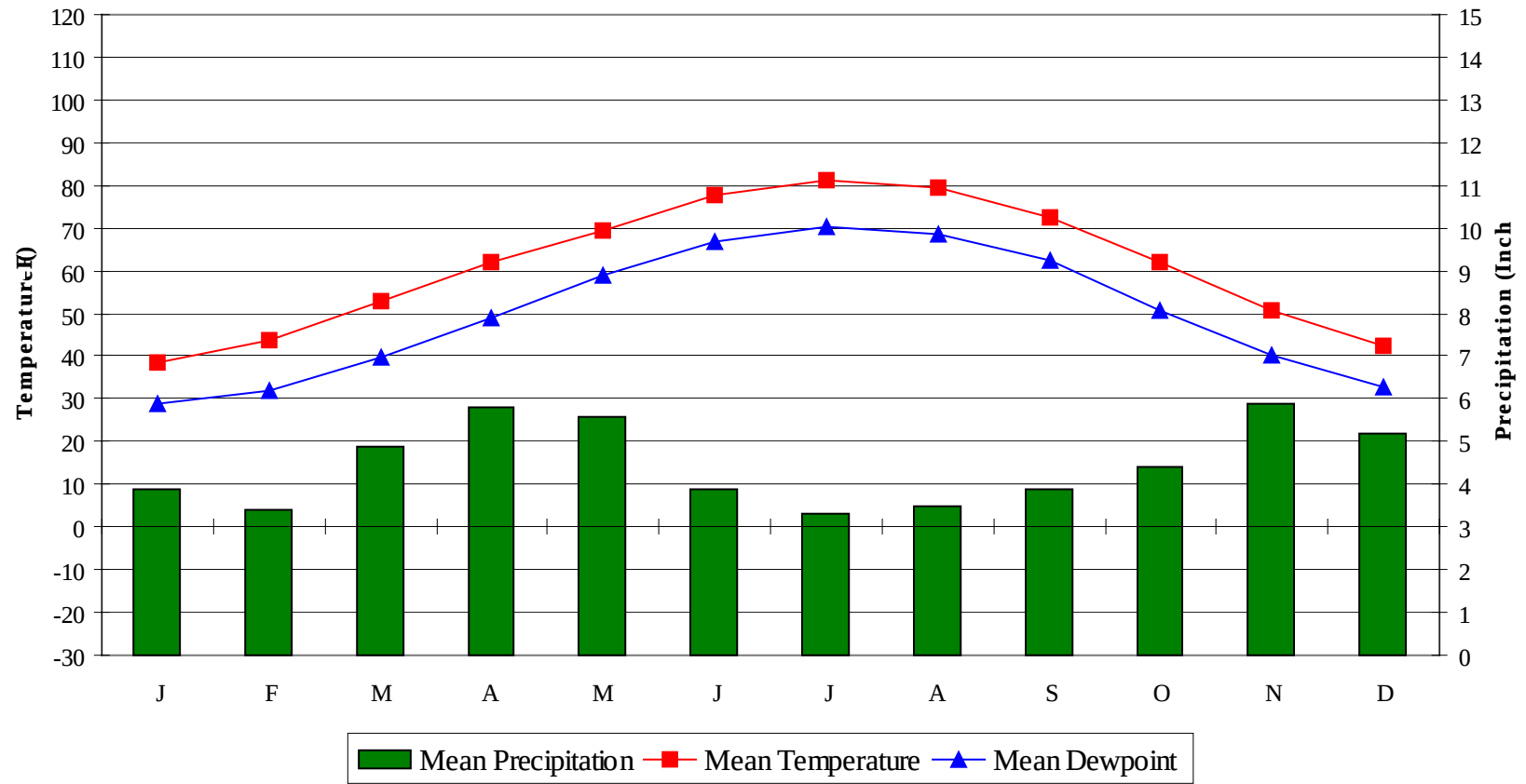
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
11	3.8	90	4.5 + 1.6
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
63.7	14	6	42

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

LITTLE ROCK AFB AR

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Average Annual Climate

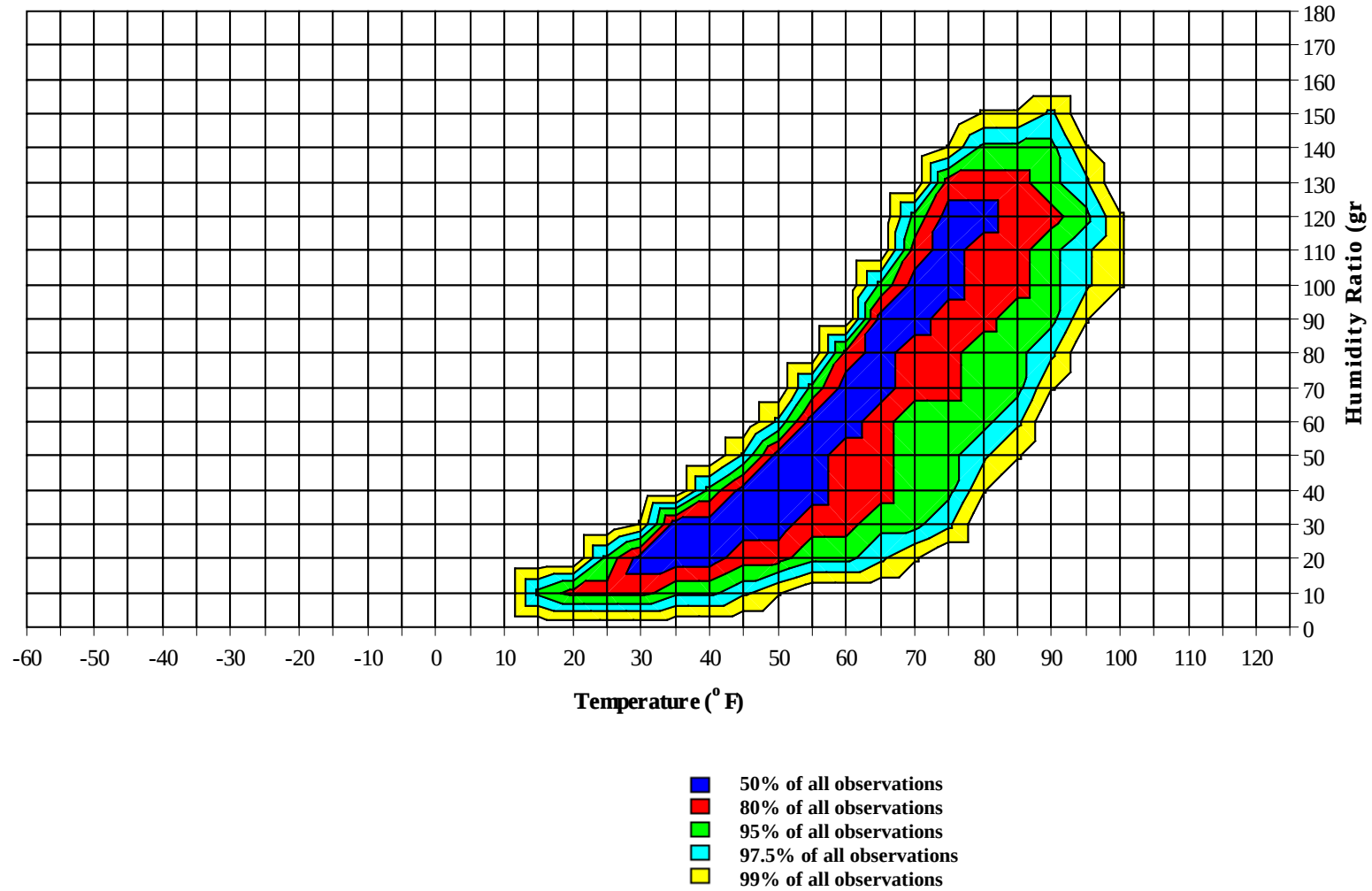


LITTLE ROCK AFB

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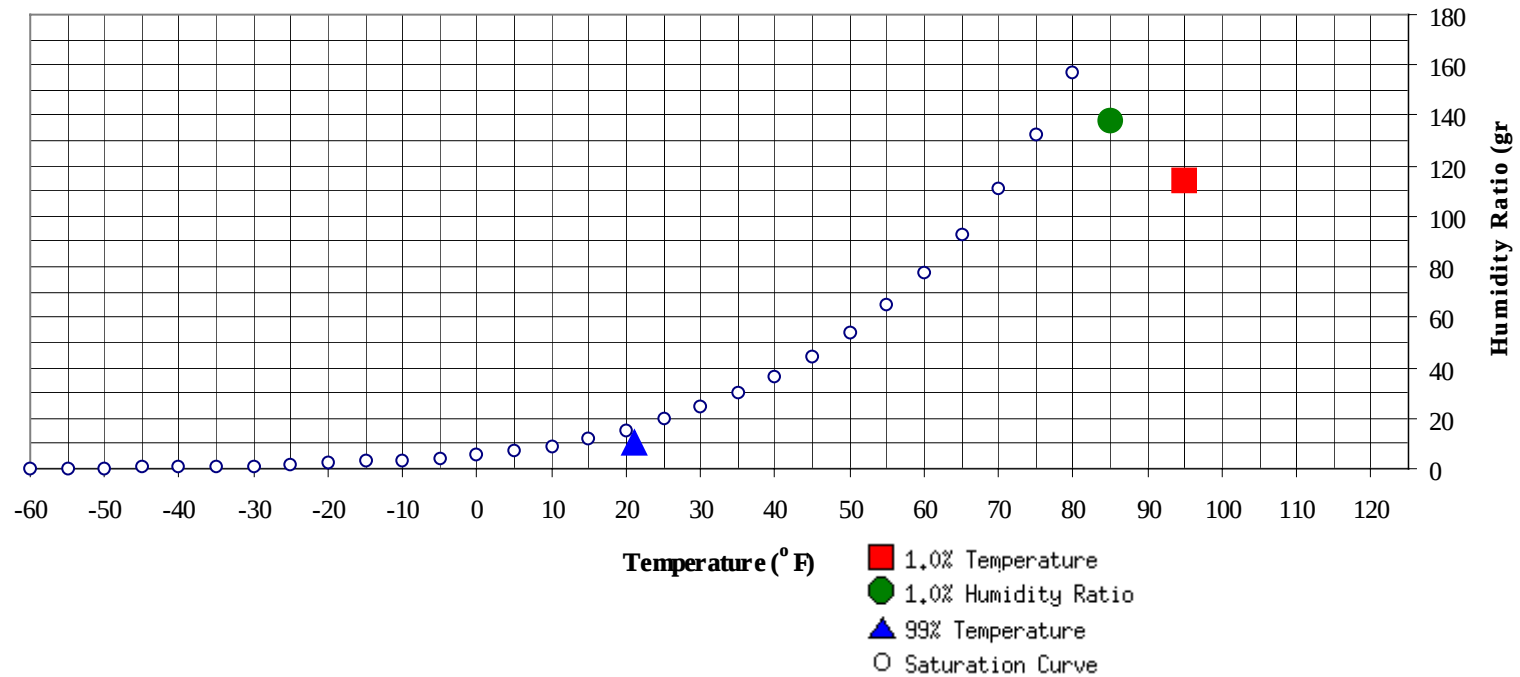
Long Term Psychrometric Summary



LITTLE ROCK AFB

AR

WMO No. 723405

Psychrometric Summary of Peak Design Values

	(°F)	MCHR	Enthalpy	1.0% Humidity	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	21	10.7	6.7	Ratio	137.9	84.9	78.3	75.9	42.0

	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
1.0% Dry Bulb	95	114.2	77.5	40.8

LITTLE ROCK AFB AR

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

Period of Record = 1967 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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94												0	0	0	68.3
85 / 89												1	0	1	67.1
80 / 84							1	0	1	61.3		5	2	7	64.4
75 / 79		1	0	1	63.3		2	0	3	59.6		14	6	21	62.8
70 / 74		2	1	3	61.9	0	7	3	9	58.2	3	25	16	44	60.8
65 / 69	1	7	3	11	58.7	1	15	8	24	56.5	12	30	26	67	58.3
60 / 64	5	14	9	27	55.5	7	23	15	45	54.1	21	37	35	92	54.3
55 / 59	8	20	14	42	51.2	11	25	22	58	50.1	29	37	37	103	50.5
50 / 54	10	28	20	57	46.5	15	32	27	73	45.9	36	35	40	111	46.2
45 / 49	18	34	33	85	42.2	25	32	36	94	42.1	38	30	35	103	41.8
40 / 44	30	37	37	104	37.9	36	30	37	102	37.8	41	19	28	88	37.6
35 / 39	39	39	42	121	33.4	38	23	29	90	33.2	36	10	16	62	33.8
30 / 34	52	31	40	123	29.2	40	19	24	83	29.0	21	3	6	31	29.6
25 / 29	40	18	27	86	24.7	26	10	13	48	24.4	9	1	1	11	25.2
20 / 24	24	11	13	48	20.1	15	6	7	27	20.0	2	0	1	3	20.0
15 / 19	11	4	5	20	15.4	8	1	2	11	15.3	1			1	15.7
10 / 14	6	1	2	10	10.8	2	0	0	3	11.2					
5 / 9	3	0	1	4	6.2	0	0	0	1	6.6					
0 / 4	0	0	0	1	1.8	0			0	2.5					

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.

LITTLE ROCK AFB AR

WMO No. 723405

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)**Period of Record = 1967 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		
110 / 114															
105 / 109															
100 / 104												1	0	1	77.8
95 / 99							0	0	0	76.6		8	2	10	77.2
90 / 94		0	0	0	67.3		4	1	5	73.1		42	14	55	76.5
85 / 89		6	1	8	68.0		30	8	37	72.4	2	70	33	104	74.4
80 / 84		23	9	32	66.5	1	52	25	79	70.0	15	58	52	125	72.7
75 / 79	1	37	21	60	64.6	12	54	42	108	67.8	51	37	59	147	71.0
70 / 74	14	47	38	99	62.5	37	50	55	142	65.4	85	19	50	153	68.5
65 / 69	30	43	43	116	59.5	67	35	54	156	62.6	51	6	23	80	64.2
60 / 64	40	36	43	119	55.8	57	16	36	110	58.4	25	1	7	32	59.6
55 / 59	43	25	37	105	51.5	40	5	19	64	53.8	10		1	11	55.1
50 / 54	42	13	26	80	47.3	23	1	6	30	49.4	1		0	1	50.8
45 / 49	35	6	14	55	43.1	10	0	1	11	45.1	0			0	46.3
40 / 44	21	3	7	31	38.9	1		0	1	40.5					
35 / 39	10	0	2	12	34.6	0			0	37.0					
30 / 34	3		0	3	30.4										
25 / 29	0			0	25.9										
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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LITTLE ROCK AFB AR

WMO No. 723405

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

Period of Record = 1967 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		
110 / 114		0		0	77.3										
105 / 109		2	0	3	79.1		0	0	1	78.4					
100 / 104		6	1	8	79.1		6	1	7	77.8		1		1	77.0
95 / 99	0	28	7	35	78.2		22	5	26	77.4		5	1	6	76.2
90 / 94	1	68	26	95	77.4	0	59	17	76	76.7		22	4	26	75.1
85 / 89	5	66	45	116	75.9	3	68	36	107	75.0	0	42	14	56	73.9
80 / 84	32	45	63	141	74.5	21	53	61	135	73.6	3	56	31	90	71.3
75 / 79	87	22	64	173	72.8	72	29	68	169	72.1	29	50	50	130	70.0
70 / 74	91	8	33	133	69.7	91	9	45	146	69.2	67	34	56	157	67.6
65 / 69	23	0	7	30	64.5	43	1	12	56	64.4	50	18	38	106	62.8
60 / 64	8		1	9	60.1	13	0	2	15	59.8	38	8	24	71	58.3
55 / 59	1		0	1	55.8	3		0	4	54.8	30	3	14	48	53.8
50 / 54						1			1	49.2	14	0	6	20	49.5
45 / 49											7		1	9	45.1
40 / 44											1		0	1	41.3
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															

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.

LITTLE ROCK AFB AR

WMO No. 723405

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

Period of Record = 1967 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		
110 / 114															
105 / 109															
100 / 104															
95 / 99															
90 / 94		1		1	71.2										
85 / 89		12	1	13	69.9										
80 / 84	0	27	6	34	67.8		2		2	64.7					
75 / 79	2	40	17	59	65.5	0	11	1	12	64.6		1	0	1	67.8
70 / 74	11	48	34	93	63.3	3	21	9	33	63.1	1	4	1	6	64.4
65 / 69	31	46	45	122	60.2	10	27	20	58	60.0	2	12	6	21	60.8
60 / 64	41	36	42	120	56.3	17	35	26	77	55.6	10	19	12	40	56.7
55 / 59	43	21	41	105	52.4	23	38	33	94	51.1	12	27	19	59	51.3
50 / 54	45	12	31	89	47.9	30	38	38	106	46.6	16	37	27	79	46.7
45 / 49	37	4	19	60	43.9	39	33	41	112	42.6	25	42	39	106	42.5
40 / 44	25	0	8	33	39.6	38	21	34	94	38.1	39	43	46	128	38.1
35 / 39	11	0	2	13	35.3	36	10	24	71	34.0	43	30	45	117	33.7
30 / 34	2		0	2	30.7	28	3	10	41	29.7	46	18	28	92	29.3
25 / 29	0		0	0	27.7	11	1	3	15	25.0	30	8	14	52	24.7
20 / 24						4	0	0	4	20.6	14	3	7	24	20.0
15 / 19						1			1	15.7	6	2	3	11	15.4
10 / 14											2	1	1	5	10.6
5 / 9											1	1	1	3	5.5
0 / 4											1	0	0	1	0.8

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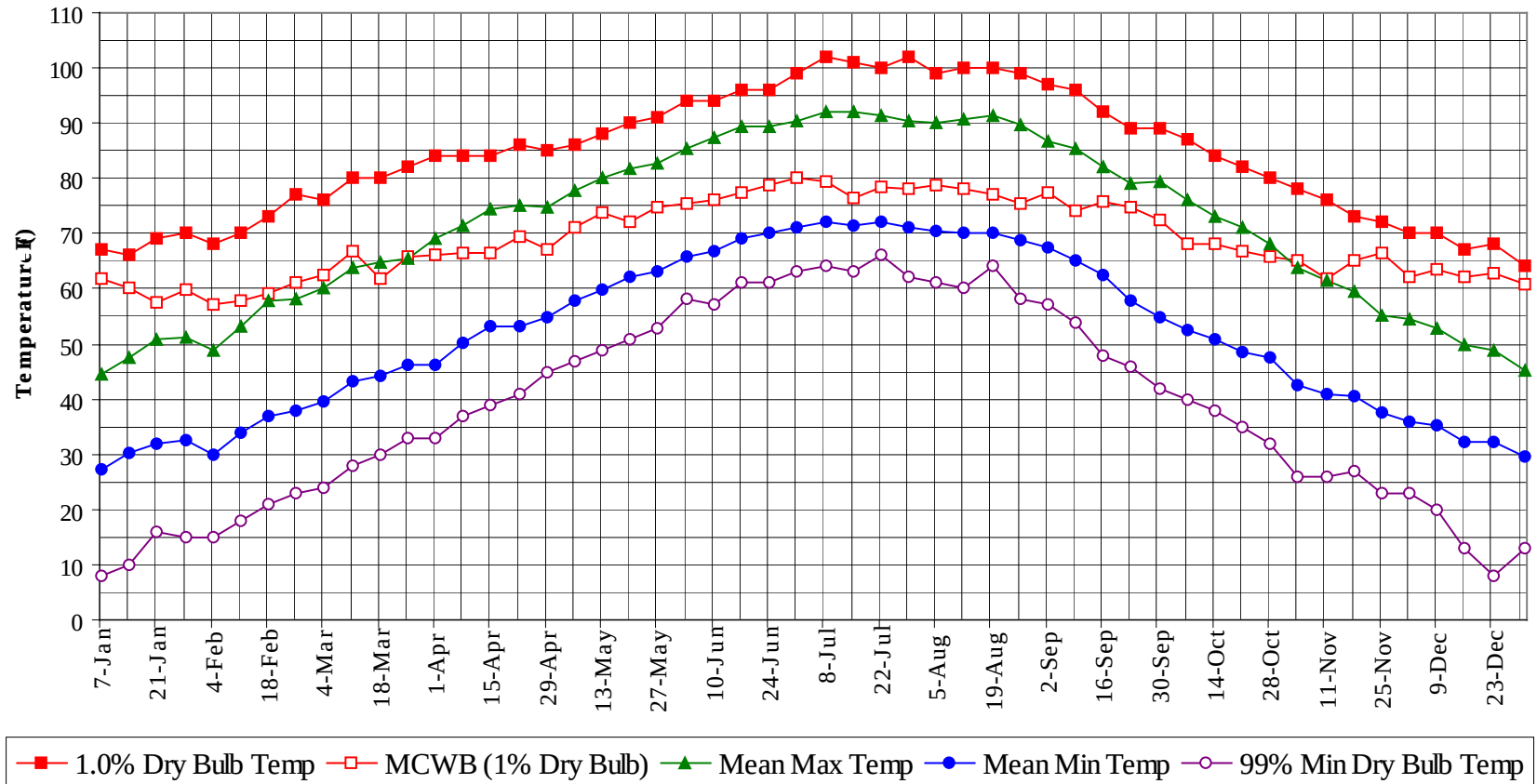
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1967 to 1996

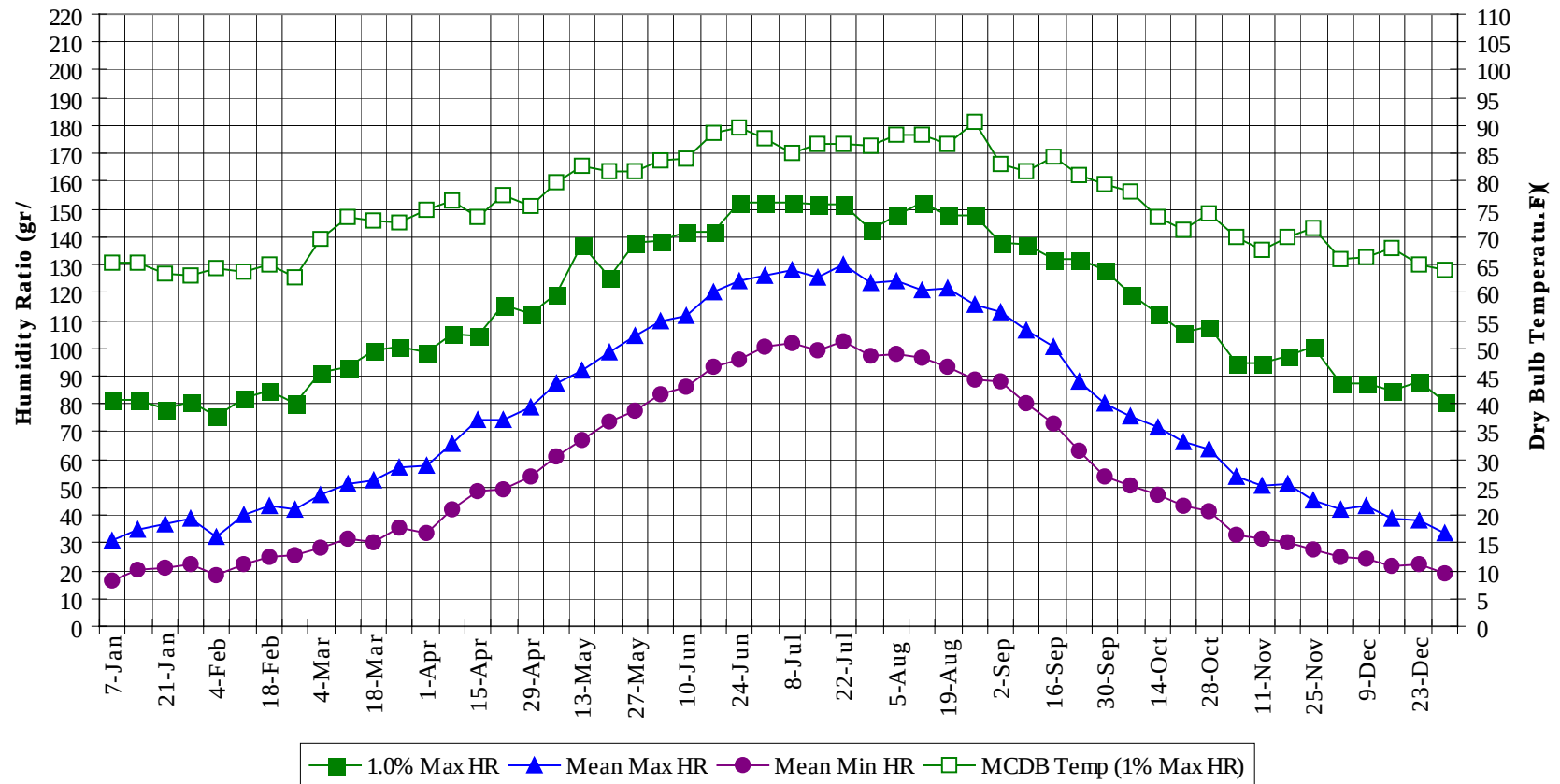
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
110 / 114	0			0	77.3	
105 / 109	3			1	3	79.0
100 / 104	14			2	17	78.3
95 / 99	0	63	15	78	77.6	
90 / 94	1	196	61	259	76.6	
85 / 89	10	294	138	443	74.4	
80 / 84	72	323	250	645	72.1	
75 / 79	254	298	330	882	69.9	
70 / 74	404	275	341	1019	66.5	
65 / 69	321	240	285	847	61.4	
60 / 64	281	225	252	758	56.5	
55 / 59	254	201	238	693	51.7	
50 / 54	232	196	220	648	47.0	
45 / 49	234	181	220	635	42.6	
40 / 44	233	153	197	583	38.1	
35 / 39	213	113	160	486	33.6	
30 / 34	192	75	109	376	29.3	
25 / 29	116	37	59	212	24.7	
20 / 24	58	21	27	106	20.1	
15 / 19	27	7	10	44	15.4	
10 / 14	11	3	3	17	10.8	
5 / 9	5	1	2	8	6.0	
0 / 4	1	0	0	2	1.2	

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



LITTLE ROCK AFB**AR****WMO No. 723405****Long Term Dry Bulb Temperature and Humidity Summary**

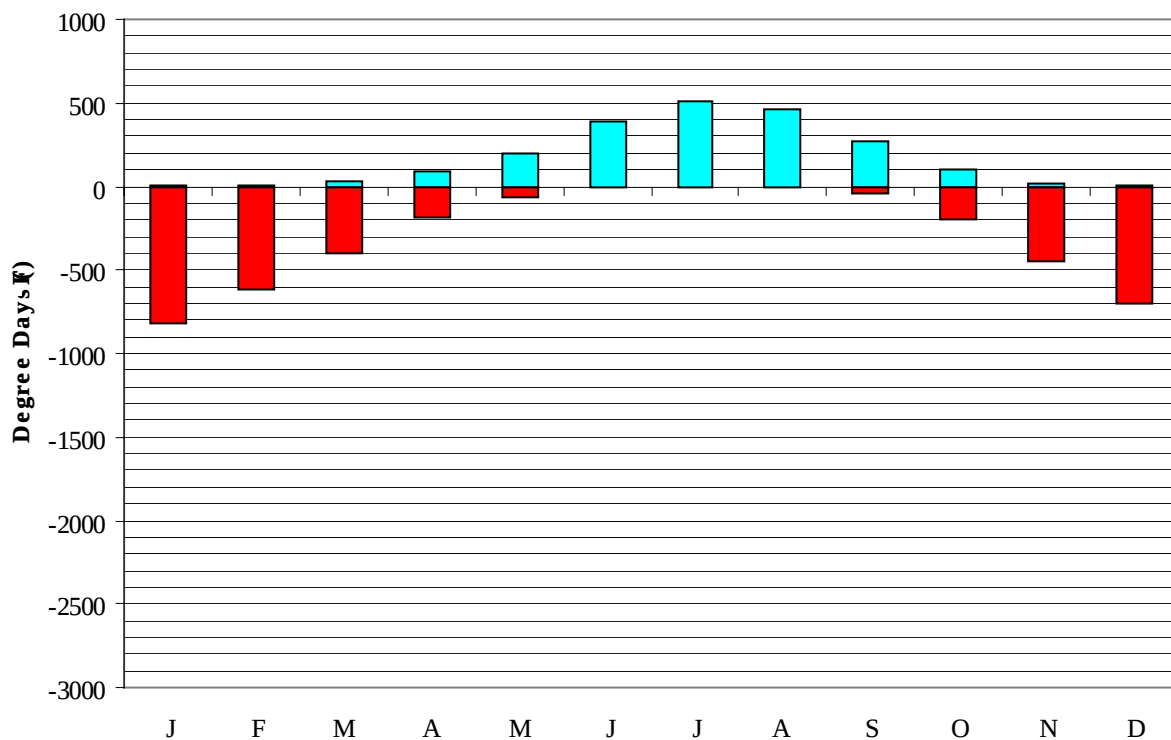
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	67.0	61.7	44.5	27.2	8.0	81.2	65.2	31.0	16.7
14-Jan	66.0	60.0	47.6	30.2	10.0	81.2	65.4	34.9	20.5
21-Jan	69.0	57.6	50.8	32.0	16.0	78.4	63.5	36.8	21.3
28-Jan	70.0	59.7	51.3	32.7	15.0	80.5	63.1	38.5	22.2
4-Feb	68.0	57.2	49.0	30.0	15.0	75.6	64.5	32.3	18.2
11-Feb	70.0	57.9	53.1	33.8	18.0	81.9	63.6	39.9	22.5
18-Feb	73.0	59.0	57.7	37.0	21.0	84.7	64.9	43.1	24.6
25-Feb	77.0	61.1	58.0	37.8	23.0	79.8	62.7	42.3	25.4
4-Mar	76.0	62.5	60.2	39.6	24.0	91.0	69.8	47.2	28.2
11-Mar	80.0	66.7	63.9	43.4	28.0	93.1	73.7	51.3	31.2
18-Mar	80.0	61.9	64.7	44.0	30.0	99.4	73.0	52.8	30.4
25-Mar	82.0	65.7	65.4	46.1	33.0	100.8	72.5	57.4	35.2
1-Apr	84.0	66.3	69.0	46.2	33.0	98.7	74.9	57.8	33.7
8-Apr	84.0	66.6	71.6	50.2	37.0	105.0	76.4	65.9	41.9
15-Apr	84.0	66.3	74.5	53.1	39.0	104.3	73.6	74.0	48.9
22-Apr	86.0	69.6	75.0	53.3	41.0	115.5	77.4	74.2	49.5
29-Apr	85.0	67.2	74.7	55.0	45.0	112.0	75.5	78.8	53.6
6-May	86.0	71.0	77.8	57.7	47.0	119.7	79.7	87.3	60.8
13-May	88.0	73.8	80.0	59.7	49.0	137.2	82.9	91.7	67.1
20-May	90.0	72.1	81.8	62.0	51.0	125.3	81.7	98.4	73.4
27-May	91.0	74.8	82.8	63.3	53.0	137.9	81.8	104.2	77.2
3-Jun	94.0	75.4	85.5	65.8	58.0	138.6	83.9	109.7	83.5
10-Jun	94.0	76.2	87.5	66.8	57.0	142.1	84.1	111.8	86.2
17-Jun	96.0	77.4	89.2	69.1	61.0	142.1	88.7	120.0	93.1
24-Jun	96.0	78.7	89.4	70.1	61.0	152.6	89.6	124.2	95.7
1-Jul	99.0	80.0	90.3	71.1	63.0	152.6	87.7	126.3	100.3
8-Jul	102.0	79.3	92.2	72.3	64.0	152.6	85.1	128.2	101.7
15-Jul	101.0	76.3	92.1	71.3	63.0	151.9	86.6	125.2	99.2
22-Jul	100.0	78.4	91.3	72.0	66.0	151.9	86.8	130.0	102.3
29-Jul	102.0	78.0	90.4	71.0	62.0	142.8	86.4	123.5	97.5
5-Aug	99.0	78.6	90.0	70.5	61.0	147.7	88.2	123.9	98.0
12-Aug	100.0	78.3	90.6	70.3	60.0	152.6	88.3	121.0	96.5
19-Aug	100.0	77.1	91.5	70.2	64.0	147.7	86.8	121.4	93.3
26-Aug	99.0	75.5	89.6	68.9	58.0	147.7	90.7	115.5	88.9
2-Sep	97.0	77.6	86.9	67.5	57.0	137.9	82.9	113.2	88.2
9-Sep	96.0	74.1	85.3	65.0	54.0	137.2	81.9	106.2	80.0
16-Sep	92.0	75.9	82.3	62.6	48.0	132.3	84.5	100.5	73.0
23-Sep	89.0	74.7	79.2	57.7	46.0	132.3	81.1	88.1	62.9
30-Sep	89.0	72.3	79.4	55.0	42.0	128.1	79.5	79.8	53.7
7-Oct	87.0	68.1	76.0	52.6	40.0	119.7	78.3	75.4	50.6
14-Oct	84.0	68.1	73.3	50.8	38.0	112.0	73.6	71.8	47.4
21-Oct	82.0	66.7	71.2	48.7	35.0	105.7	71.3	66.2	43.4
28-Oct	80.0	65.8	68.2	47.4	32.0	107.8	74.3	63.6	41.1
4-Nov	78.0	65.1	63.8	42.4	26.0	94.5	69.9	53.6	32.6
11-Nov	76.0	62.0	61.5	40.8	26.0	94.5	67.6	50.8	31.7
18-Nov	73.0	65.0	59.4	40.5	27.0	97.3	70.0	51.1	30.4
25-Nov	72.0	66.5	55.2	37.4	23.0	100.8	71.6	45.1	27.3
2-Dec	70.0	62.1	54.5	35.9	23.0	87.5	66.1	42.2	24.8
9-Dec	70.0	63.5	52.9	35.3	20.0	87.5	66.4	43.2	24.4
16-Dec	67.0	62.2	49.9	32.3	13.0	84.7	67.8	38.5	21.9
23-Dec	68.0	62.8	48.9	32.1	8.0	88.2	65.0	37.9	22.4
31-Dec	64.0	60.8	45.1	29.7	13.0	80.5	64.1	33.4	19.0

LITTLE ROCK AFB

AR

WMO No. 723405

Degree Days, Heating and Cooling
(Base 65°F)



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

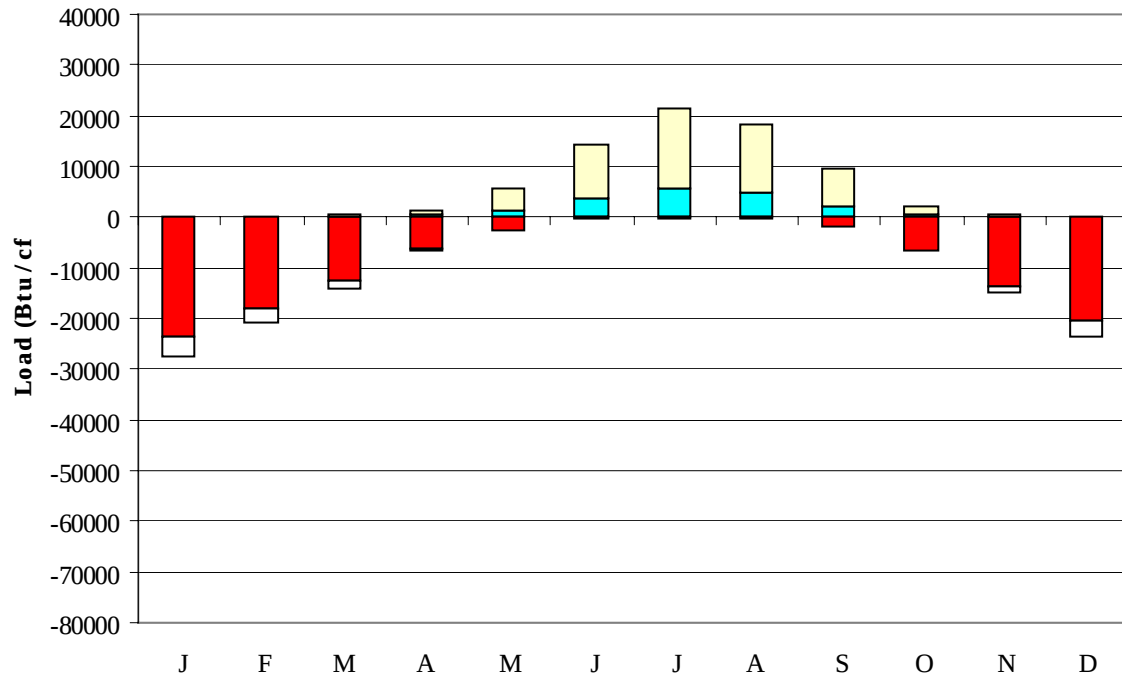
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	2	818
FEB	6	611
MAR	33	405
APR	95	182
MAY	201	60
JUN	384	8
JUL	503	1
AUG	458	3
SEP	272	42
OCT	102	192
NOV	20	445
DEC	3	697
ANN	2080	3464

LITTLE ROCK AFB

AR

WMO No. 723405

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 (Drying) Load	■ Average Latent Heating (Humidifying) Load

	Average Sensible Cooling Load (Btu/cfm)	Average Sensible Heating Load (Btu/cfm)	Average Latent Cooling Load (Btu/cfm)	Average Latent Heating Load (Btu/cfm)
JAN	1	-23575	15	-4020
FEB	10	-17964	34	-2887
MAR	98	-12556	238	-1483
APR	433	-6188	972	-358
MAY	1339	-2452	4313	-8
JUN	3802	-422	10725	0
JUL	5737	-92	15761	0
AUG	4937	-195	13382	0
SEP	2256	-1687	7176	-12
OCT	538	-6492	1492	-209
NOV	30	-13601	353	-1433
DEC	1	-20414	83	-2981
ANN	19182	-105638	54544	-13391

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

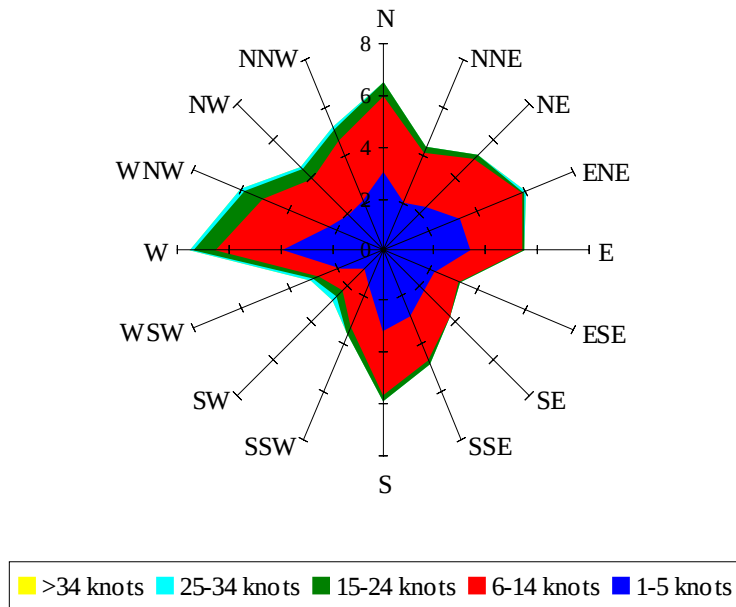
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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

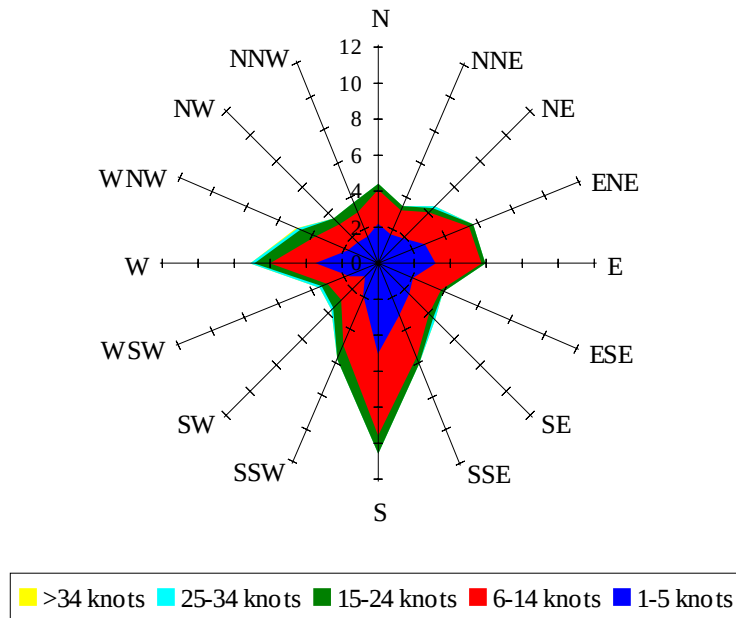
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	27	69	89	82	51	19	49	56	38	5
	M.Cloudy	16	43	61	60	36	10	27	32	21	4
NORTH	M.Clear	9	15	17	17	13	6	11	12	9	3
	M.Cloudy	7	15	18	18	13	5	11	12	9	2
EAST	M.Clear	62	72	32	17	13	49	44	12	9	3
	M.Cloudy	21	36	26	18	13	12	19	12	9	2
SOUTH	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 = 22.83

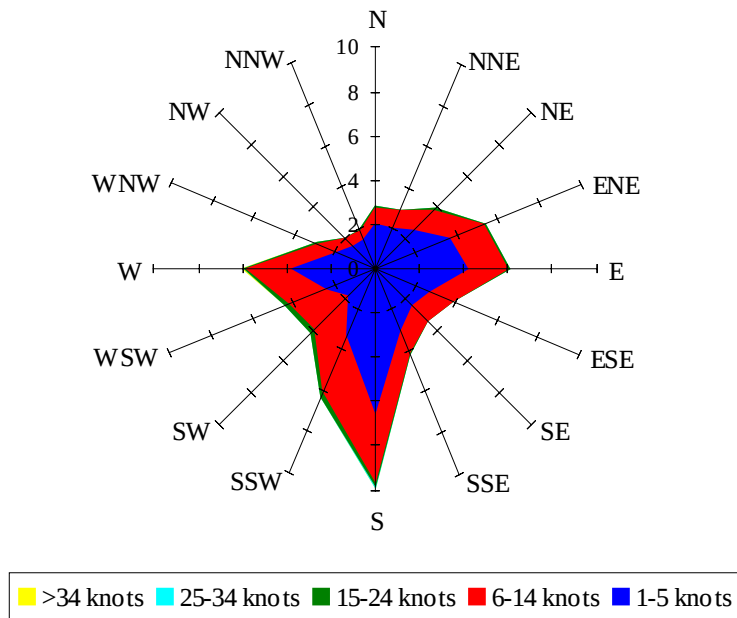
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 20.93

Wind Summary - June, July, and August

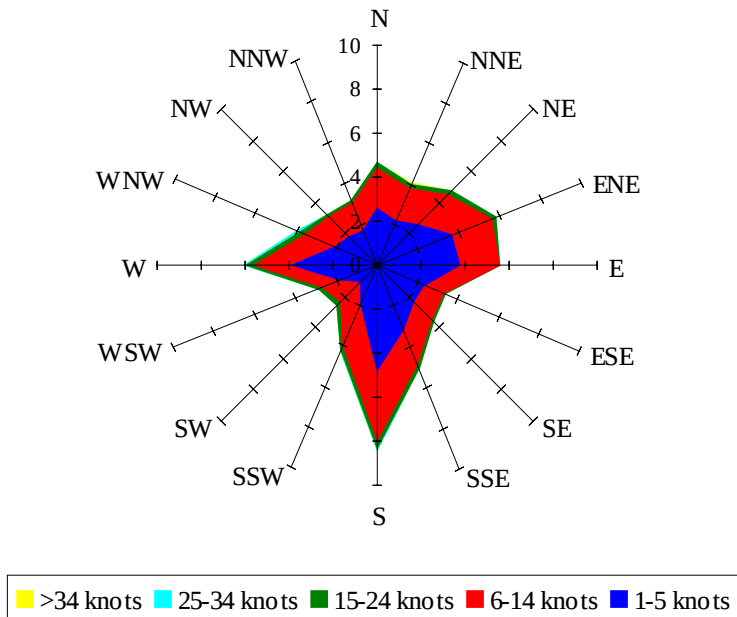
Labels of Percent Frequency on North Axis



Percent Calm = 30.92

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 29.00