

BARKSDALE AFB LA

Latitude = 32.50 N

WMO No. 722485

Longitude = 93.67 W

Elevation = 167 feet

Period of Record = 1967 to 1996

Average Pressure = 29.82 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	99	77	104	5.0	S
0.4% Occurrence	96	77	109	5.3	S
1.0% Occurrence	94	77	114	5.7	S
2.0% Occurrence	92	77	116	6.0	S
Mean Daily Range	20	-	-	-	-
97.5% Occurrence	31	28	18	4.8	N
99.0% Occurrence	26	24	14	4.9	N
99.6% Occurrence	22	20	11	6.5	N
Median of Extreme Lows	18	16	9	6.4	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	92	151	4.5	S
0.4% Occurrence	80	91	137	5.3	S
1.0% Occurrence	79	90	132	5.6	S
2.0% Occurrence	78	88	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	152	86	1.00	4.1	SSW
0.4% Occurrence	142	84	0.94	5.3	S
1.0% Occurrence	137	83	0.90	5.0	S
2.0% Occurrence	133	82	0.88	6.8	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		159	1607	1768	3303

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	4.0	90	5.7 + 1.8
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 (#)
66.7	7	3	27

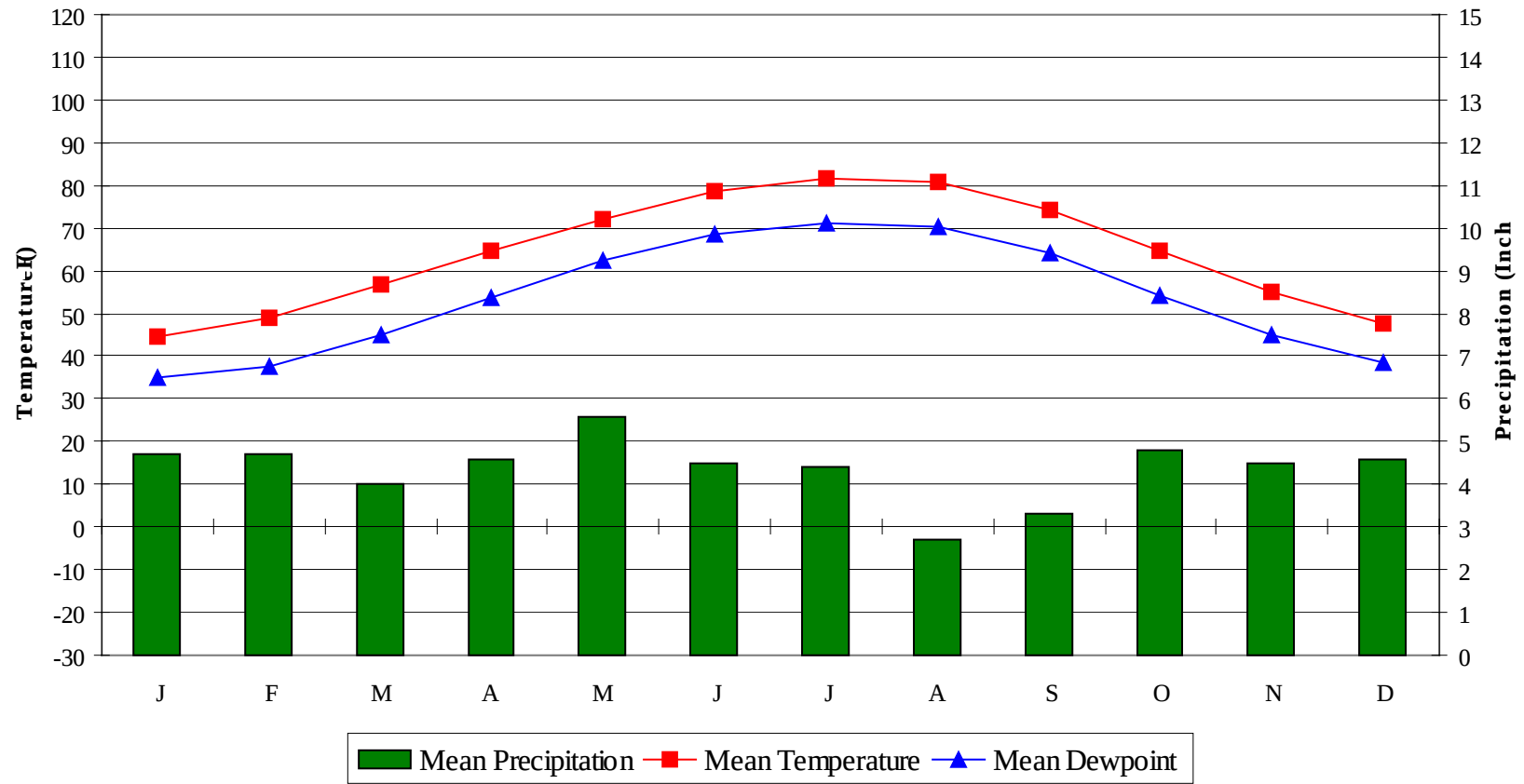
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

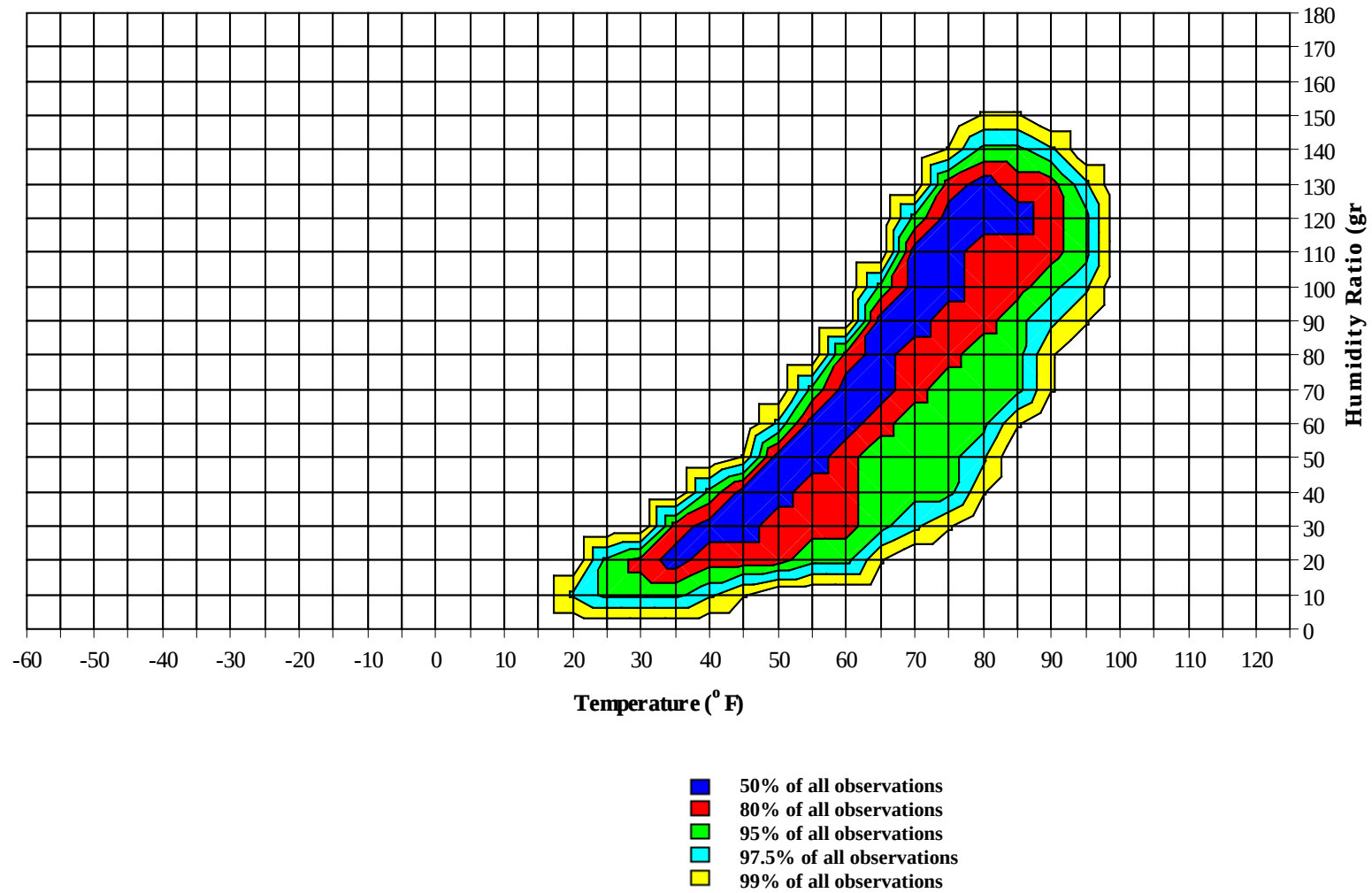


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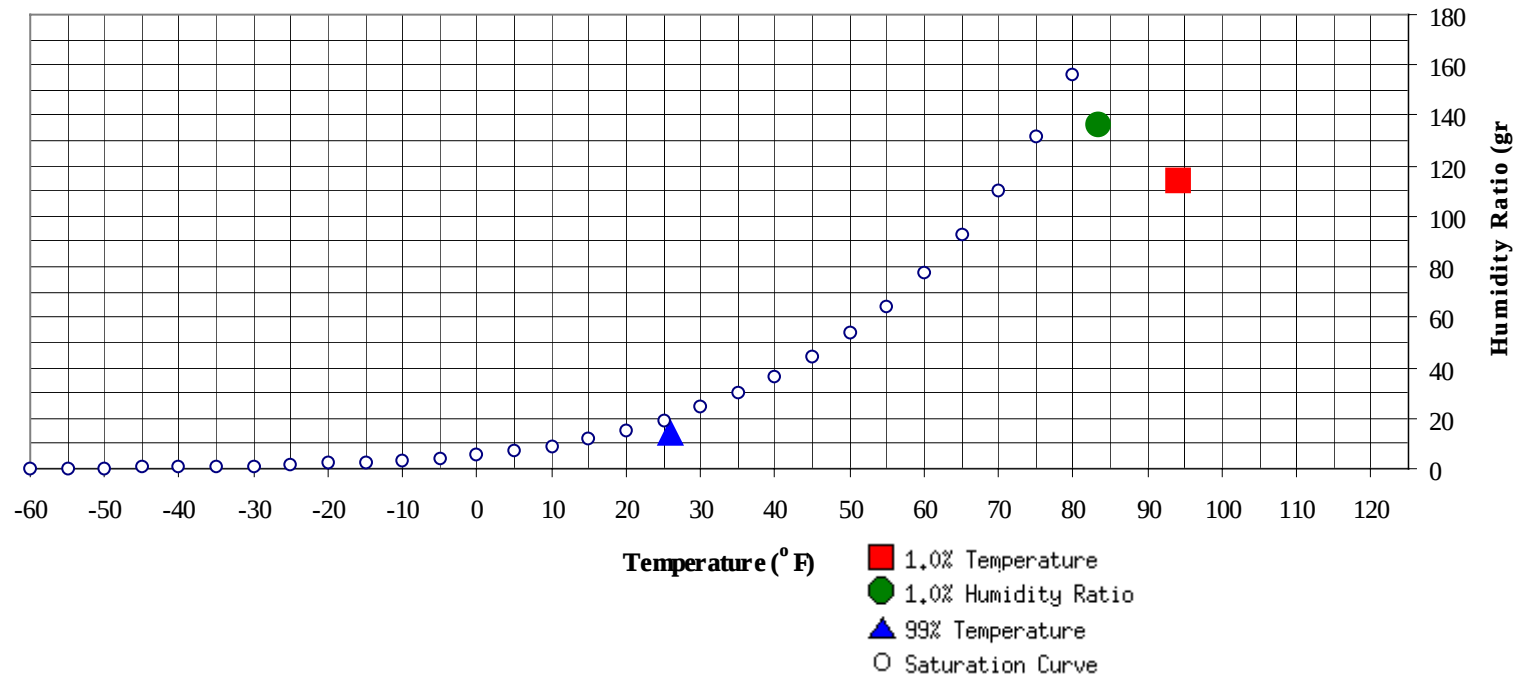
Long Term Psychrometric Summary



BARKSDALE AFB

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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	26	14.5	8.5	Ratio	136.5	83.3	78	75.9	41.4

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
94	113.8	77.1	40.5	

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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		
100 / 104															
95 / 99															
90 / 94															
85 / 89							0	0	0	64.9		0		0	68.0
80 / 84		0		0	67.8		2	0	2	62.5		1	0	2	68.0
75 / 79		3	0	3	64.5		6	2	7	62.3	0	7	2	9	65.9
70 / 74	0	9	3	12	62.3	0	18	8	25	60.6	0	24	9	33	64.2
65 / 69	4	16	10	30	59.7	6	23	16	45	58.8	7	35	24	65	62.5
60 / 64	11	23	19	53	56.8	12	28	23	64	55.2	19	39	36	94	59.6
55 / 59	12	30	23	65	51.6	19	32	31	82	51.2	26	43	43	112	55.5
50 / 54	19	31	30	80	47.2	28	30	35	93	46.9	37	36	43	116	51.4
45 / 49	27	37	38	102	42.9	30	29	35	94	42.6	43	29	36	107	47.0
40 / 44	36	38	42	116	38.3	38	24	30	91	38.2	39	17	27	82	42.8
35 / 39	45	30	37	111	33.9	37	18	24	79	33.8	40	12	16	68	38.9
30 / 34	43	19	29	92	29.5	30	9	13	53	29.5	22	5	8	35	34.3
25 / 29	31	9	12	52	25.0	17	4	5	26	24.8	11	1	3	15	29.9
20 / 24	11	2	4	17	20.2	6	1	1	8	20.3	3	0	1	4	25.0
15 / 19	5	1	1	7	15.7	2	0	0	2	15.9	1		0	1	20.2
10 / 14	1	0	0	1	11.4	0		0	0	11.5	0			0	16.0
5 / 9	0	0		0	5.4										

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.

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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		
100 / 104												0	0	0	78.3
95 / 99												5	2	7	77.6
90 / 94		0	0	0	66.8		5	1	6	75.6		45	16	61	76.6
85 / 89		4	1	5	70.5		38	11	49	73.5	0	84	35	119	75.0
80 / 84		28	8	37	68.9	1	68	31	100	71.2	17	62	53	132	73.6
75 / 79	2	53	28	82	66.4	17	62	52	131	69.2	72	29	69	171	72.3
70 / 74	21	54	47	122	64.4	59	42	67	169	67.0	88	12	47	147	69.4
65 / 69	41	45	53	138	61.2	77	22	48	147	63.6	42	2	15	59	64.8
60 / 64	47	29	45	121	57.3	47	9	23	79	59.0	15	0	3	18	59.7
55 / 59	45	16	31	92	52.5	29	2	11	42	54.3	5		0	6	55.7
50 / 54	39	8	18	65	48.1	15	1	2	17	49.9	0			0	52.1
45 / 49	28	2	7	37	43.9	3		0	3	45.7					
40 / 44	11	1	2	14	39.8	0			0	42.0					
35 / 39	5		1	5	35.9										
30 / 34	1		0	1	32.2										
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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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		
100 / 104		2	1	3	78.0		1	0	1	76.9		1	0	1	75.0
95 / 99		21	6	26	77.8		23	6	29	77.0		6	1	7	75.3
90 / 94		82	30	111	77.3		76	23	99	76.8		28	5	34	75.4
85 / 89	2	78	41	121	76.4	1	75	36	112	75.7	0	58	17	75	73.8
80 / 84	37	43	65	145	75.1	22	47	64	133	74.4	3	58	34	94	72.1
75 / 79	110	17	74	201	73.5	99	20	79	197	73.1	36	45	63	143	70.8
70 / 74	83	5	28	117	70.4	95	5	34	134	70.2	80	27	61	167	68.4
65 / 69	13	1	3	17	65.4	25	1	5	30	64.9	50	12	30	92	63.5
60 / 64	3		0	3	60.3	5		1	6	59.8	32	5	19	56	58.7
55 / 59						2		0	2	55.4	23	1	8	33	54.4
50 / 54						0			0	50.6	11	0	2	14	50.0
45 / 49											4		0	4	45.5
40 / 44											1		0	1	41.8
35 / 39															
30 / 34															
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															

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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		
100 / 104															
95 / 99															
90 / 94		3	0	3	73.3										
85 / 89		17	3	20	71.0		0		0	69.7					
80 / 84	0	40	10	50	68.7		8	1	8	68.1		0		0	70.9
75 / 79	4	49	22	76	66.6	0	24	5	30	66.4	0	5	1	6	67.2
70 / 74	19	50	39	108	64.5	9	32	19	60	64.6	2	16	5	23	64.8
65 / 69	38	38	52	127	61.5	19	33	27	79	61.0	8	23	15	46	61.5
60 / 64	46	27	44	117	57.6	25	37	35	97	56.5	16	30	22	68	57.0
55 / 59	42	14	37	93	53.3	25	35	36	96	51.6	21	34	27	82	51.9
50 / 54	43	7	27	77	48.8	37	35	38	110	47.5	23	37	35	96	47.3
45 / 49	33	2	12	46	44.3	33	21	35	89	43.1	29	39	44	111	42.7
40 / 44	17	0	3	20	40.1	36	10	24	70	39.0	39	32	41	112	38.6
35 / 39	5	0	0	5	36.0	30	5	13	48	34.6	42	17	30	89	34.2
30 / 34	1		0	1	29.8	18	1	5	23	30.2	36	10	17	63	29.7
25 / 29						6	0	1	8	25.9	21	3	7	30	25.0
20 / 24						1		0	1	21.3	6	2	2	9	20.4
15 / 19						0			0	16.7	3	1	1	5	15.8
10 / 14											1	0	1	1	10.6
5 / 9											1	0		1	5.8

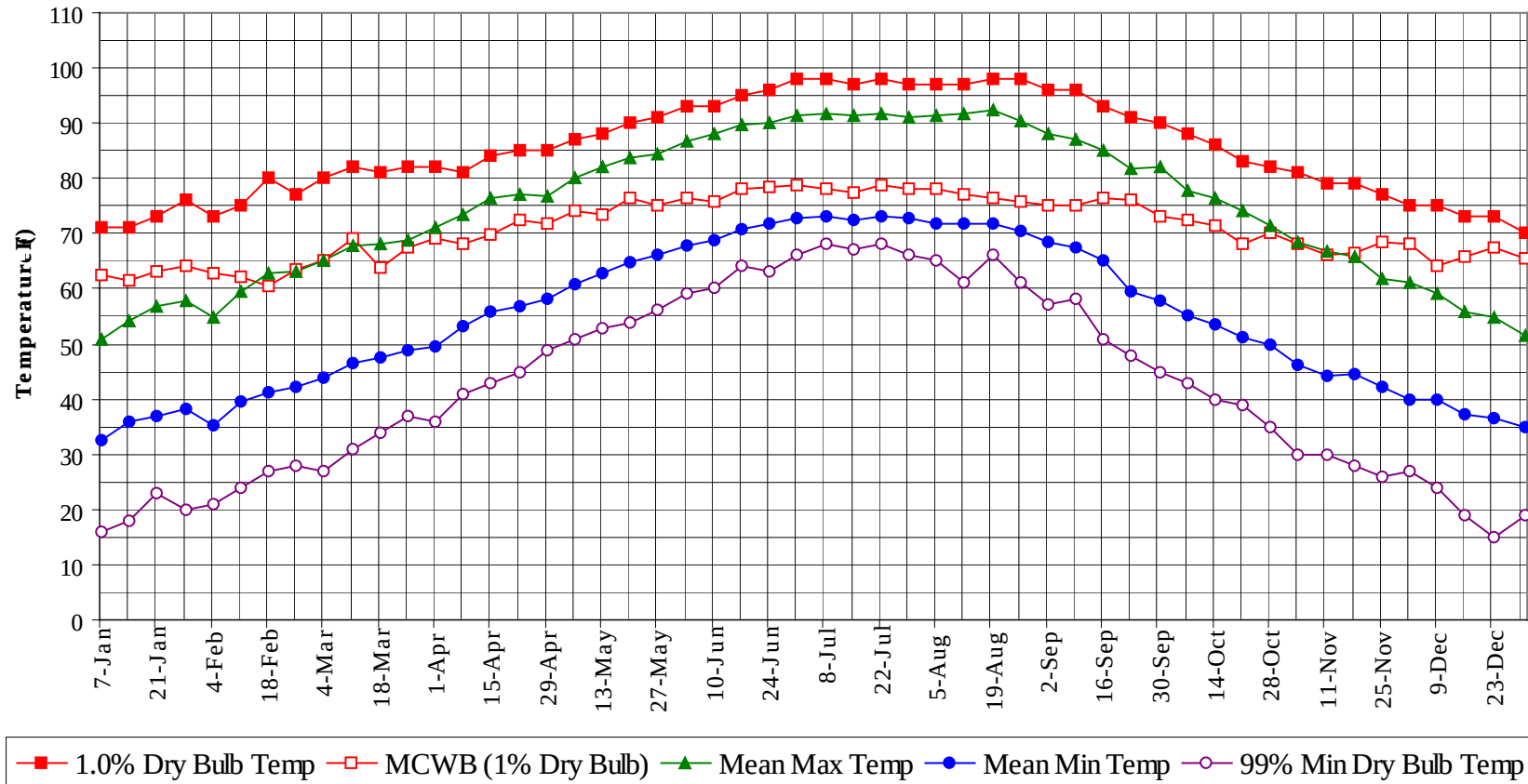
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BARKSDALE AFB LA**WMO No. 722485****Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)****Period of Record = 1967 to 1996**

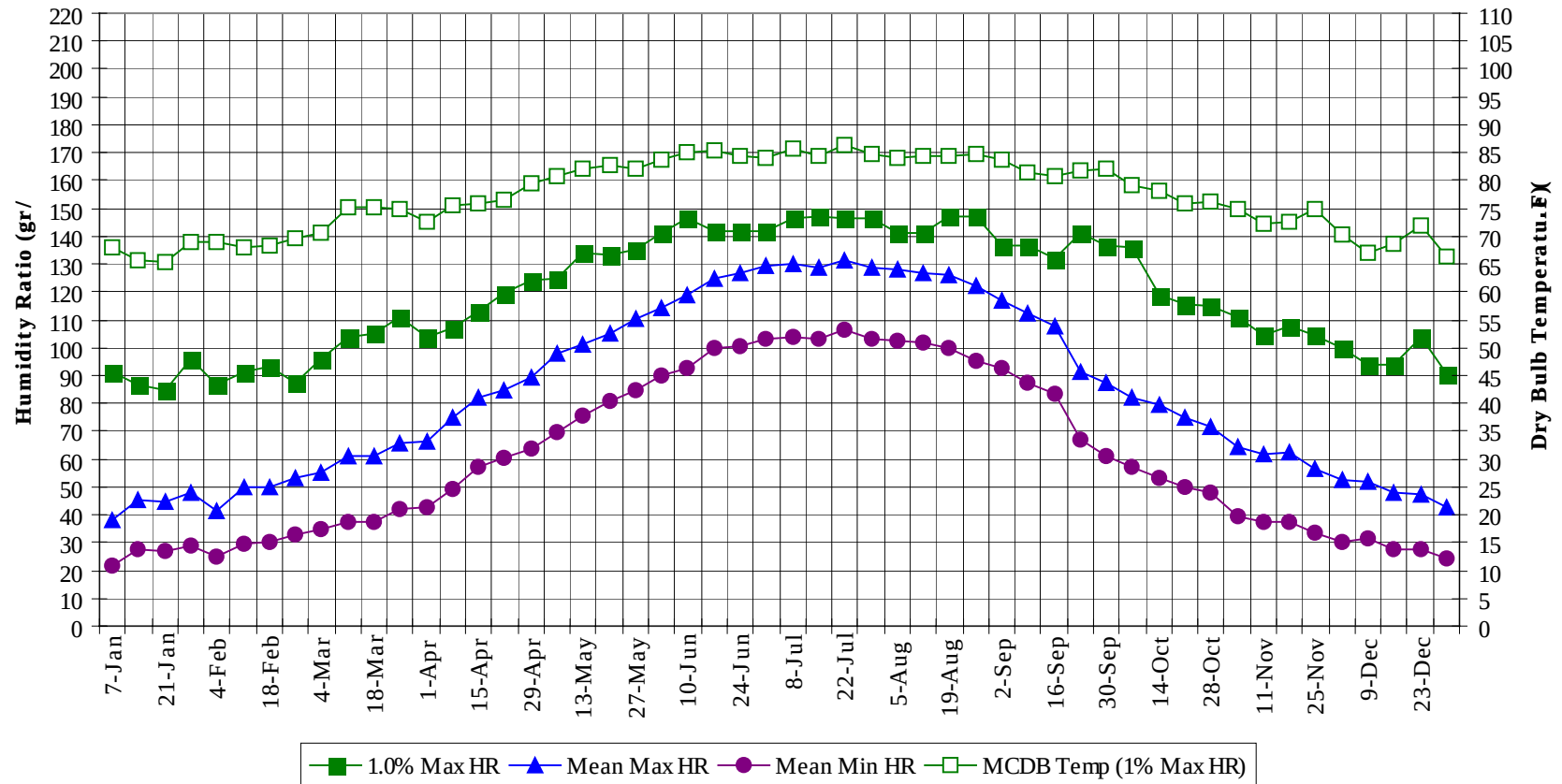
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104		4	1	5	77.3
95 / 99		55	15	70	77.2
90 / 94		240	76	316	76.7
85 / 89	3	357	145	505	74.9
80 / 84	80	364	269	713	72.7
75 / 79	341	336	405	1082	70.7
70 / 74	465	303	382	1151	67.1
65 / 69	342	253	311	906	62.0
60 / 64	286	231	277	793	57.1
55 / 59	261	200	246	707	52.2
50 / 54	259	178	223	659	47.6
45 / 49	224	146	198	568	43.0
40 / 44	218	116	158	491	38.6
35 / 39	185	75	112	372	34.1
30 / 34	139	41	67	247	29.7
25 / 29	78	16	26	119	25.0
20 / 24	25	5	7	38	20.3
15 / 19	11	2	2	15	15.7
10 / 14	2	0	1	3	11.0
5 / 9	1	0		1	5.7

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary



BARKSDALE AFB**LA****WMO No. 722485****Long Term Dry Bulb Temperature and Humidity Summary**

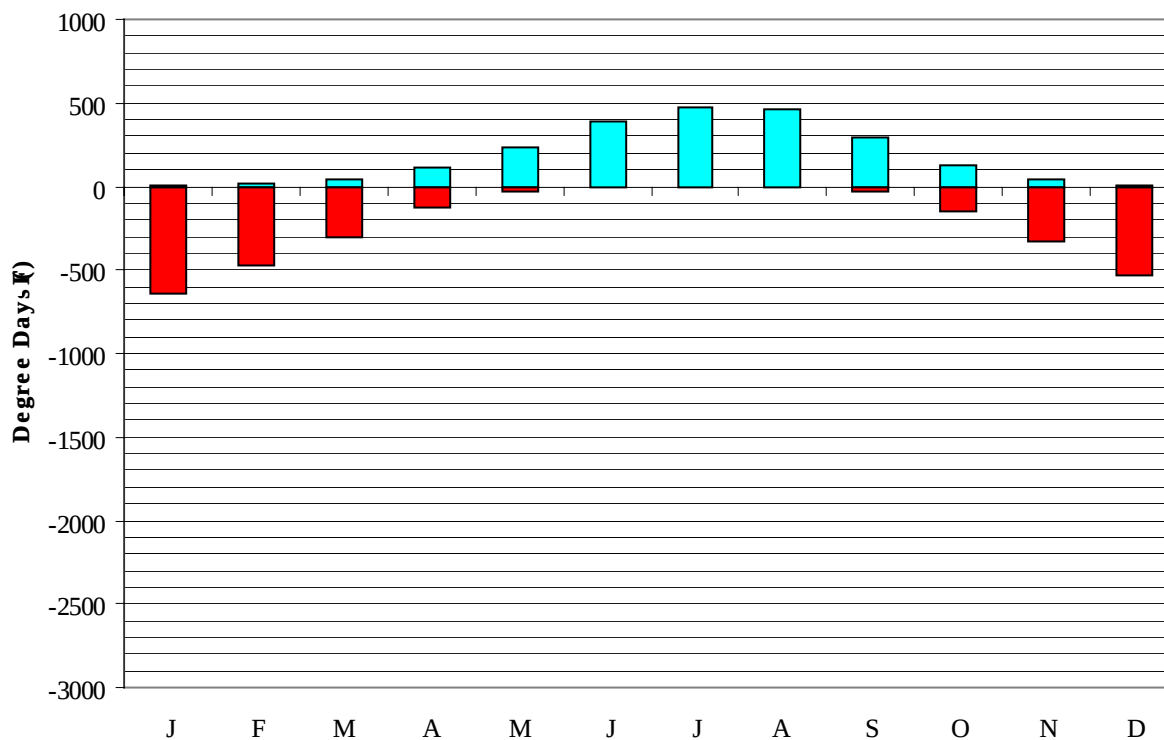
Week Ending	1.0% Temp (°F)	MCWB @ 1% Temp (°F)	Mean Max Temp (°F)	Mean Min Temp (°F)	99% Temp (°F)	1.0% HR (gr/lb)	MCDB @ 1% HR (°F)	Mean Max HR (gr/lb)	Mean Min HR (gr/lb)
7-Jan	71.0	62.6	50.9	32.7	16.0	91.0	67.8	38.2	21.4
14-Jan	71.0	61.4	54.2	36.0	18.0	86.8	65.8	45.1	27.4
21-Jan	73.0	63.2	56.7	37.0	23.0	84.7	65.5	44.8	26.9
28-Jan	76.0	64.1	57.8	38.3	20.0	95.9	68.8	48.2	29.1
4-Feb	73.0	62.8	54.9	35.2	21.0	86.8	69.1	41.7	24.9
11-Feb	75.0	62.2	59.6	39.4	24.0	91.0	67.9	49.7	29.5
18-Feb	80.0	60.6	62.7	41.1	27.0	93.1	68.3	49.9	30.3
25-Feb	77.0	63.5	63.1	42.3	28.0	87.5	69.7	53.3	32.9
4-Mar	80.0	65.1	65.2	43.8	27.0	95.9	70.6	55.0	34.7
11-Mar	82.0	69.3	67.7	46.6	31.0	103.6	75.3	61.1	37.3
18-Mar	81.0	63.9	68.2	47.4	34.0	105.0	75.1	61.3	37.6
25-Mar	82.0	67.3	68.9	48.9	37.0	111.3	75.0	66.0	41.8
1-Apr	82.0	69.1	71.2	49.4	36.0	103.6	72.4	66.5	42.7
8-Apr	81.0	68.1	73.6	53.1	41.0	107.1	75.5	75.1	49.0
15-Apr	84.0	69.8	76.4	55.7	43.0	112.7	75.7	82.4	57.0
22-Apr	85.0	72.4	77.2	56.9	45.0	119.7	76.6	84.4	60.3
29-Apr	85.0	71.8	76.9	58.2	49.0	123.9	79.4	89.1	63.8
6-May	87.0	74.3	80.0	60.8	51.0	124.6	80.6	97.5	69.9
13-May	88.0	73.6	82.0	62.8	53.0	133.7	82.0	100.9	75.7
20-May	90.0	76.3	83.9	64.8	54.0	133.0	82.8	104.9	81.1
27-May	91.0	75.0	84.4	66.2	56.0	135.1	81.9	110.1	84.9
3-Jun	93.0	76.3	86.7	67.7	59.0	141.4	83.8	114.3	89.8
10-Jun	93.0	75.8	88.0	68.7	60.0	146.3	84.9	118.8	92.9
17-Jun	95.0	78.0	89.8	71.0	64.0	142.1	85.5	124.6	99.7
24-Jun	96.0	78.3	90.2	71.7	63.0	142.1	84.5	126.4	100.8
1-Jul	98.0	78.8	91.3	72.7	66.0	142.1	84.1	129.1	103.4
8-Jul	98.0	78.0	91.9	73.3	68.0	146.3	85.7	129.8	103.8
15-Jul	97.0	77.4	91.5	72.5	67.0	147.0	84.5	129.0	103.4
22-Jul	98.0	78.8	91.6	73.0	68.0	146.3	86.5	131.1	106.2
29-Jul	97.0	78.3	91.1	72.6	66.0	146.3	84.7	128.5	103.4
5-Aug	97.0	77.9	91.3	71.8	65.0	141.4	84.1	128.3	102.7
12-Aug	97.0	77.0	91.7	71.8	61.0	141.4	84.5	126.9	101.8
19-Aug	98.0	76.3	92.4	71.7	66.0	147.0	84.5	126.2	99.9
26-Aug	98.0	75.7	90.3	70.3	61.0	147.0	84.7	122.0	95.1
2-Sep	96.0	75.2	88.2	68.6	57.0	136.5	83.7	116.7	92.6
9-Sep	96.0	75.1	87.0	67.3	58.0	136.5	81.5	112.6	87.4
16-Sep	93.0	76.3	84.9	65.1	51.0	132.3	80.7	107.8	83.5
23-Sep	91.0	76.0	81.9	59.6	48.0	141.4	81.7	91.2	66.8
30-Sep	90.0	73.0	82.0	58.0	45.0	136.5	82.0	87.4	61.3
7-Oct	88.0	72.3	77.7	55.1	43.0	135.8	79.3	82.1	56.9
14-Oct	86.0	71.5	76.5	53.4	40.0	119.0	78.2	79.2	53.4
21-Oct	83.0	68.1	74.3	51.3	39.0	115.5	76.0	75.1	49.7
28-Oct	82.0	70.0	71.4	49.7	35.0	114.8	76.3	71.3	47.8
4-Nov	81.0	68.1	68.4	46.2	30.0	111.3	74.9	64.4	39.5
11-Nov	79.0	66.1	66.8	44.3	30.0	104.3	72.3	61.6	37.7
18-Nov	79.0	66.5	65.8	44.4	28.0	107.8	72.5	62.1	37.1
25-Nov	77.0	68.6	61.7	42.0	26.0	104.3	74.7	56.2	33.4
2-Dec	75.0	68.1	61.3	39.8	27.0	100.1	70.4	52.4	30.5
9-Dec	75.0	64.0	59.1	39.7	24.0	93.8	66.8	52.2	31.3
16-Dec	73.0	65.8	55.9	37.1	19.0	93.8	68.7	48.2	27.9
23-Dec	73.0	67.5	55.0	36.6	15.0	103.6	72.1	47.1	27.4
31-Dec	70.0	65.4	51.7	34.8	19.0	90.3	66.3	42.6	24.6

BARKSDALE AFB

LA

WMO No. 722485

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



■ Mean Cooling Degree Days ■ Mean Heating Degree Days

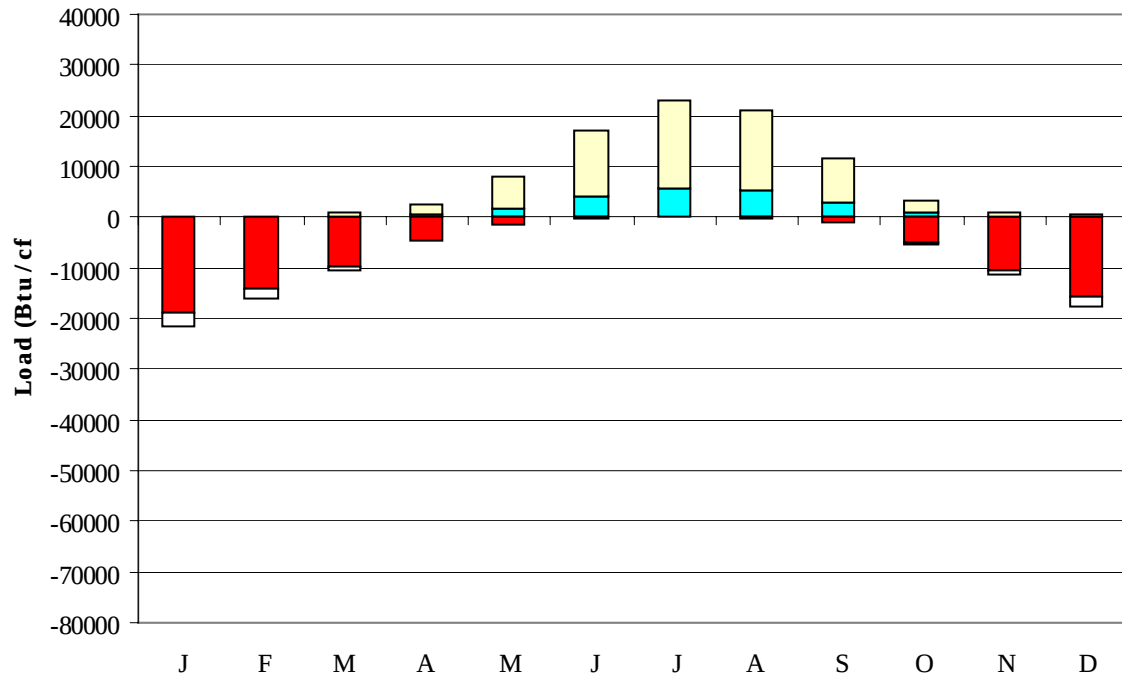
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	6	642
FEB	15	472
MAR	46	307
APR	108	128
MAY	231	34
JUN	385	4
JUL	479	0
AUG	456	1
SEP	290	28
OCT	125	147
NOV	39	335
DEC	11	527
ANN	2191	2625

BARKSDALE AFB

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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	6	-18945	104	-2535
FEB	31	-14235	145	-1740
MAR	138	-9848	610	-719
APR	467	-4599	1961	-92
MAY	1712	-1511	6393	-1
JUN	4100	-227	12886	0
JUL	5741	-31	17383	0
AUG	5329	-87	15689	0
SEP	2716	-1157	8811	-1
OCT	801	-5137	2589	-80
NOV	107	-10532	990	-785
DEC	7	-15796	333	-1822
ANN	21155	-82105	67894	-7775

Average Annual Solar Radiation – Nearest Available Site

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

City: SHREVEPORT
 State: LA
 WBAN No: 13957
 Lat(N): 32.47
 Long(W): 93.82
 Elev(ft): 259

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS

Window: 1
 Overhang: 0.976
 Vert Gap: 0.659

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	840	1090	1400	1700	1910	2040	2040	1910	1580	1310	940	780	1460
	Std Dev	75	75	117	141	140	121	118	95	95	122	78	58	36
	Minimum	710	960	1200	1440	1660	1710	1850	1690	1270	1050	720	670	1400
	Maximum	980	1230	1710	2080	2230	2230	2340	2050	1740	1520	1070	880	1540
	Diffuse	400	480	610	730	840	870	850	780	670	500	400	360	620
Clear Day	Global	1210	1530	1950	2320	2530	2590	2520	2330	2010	1610	1250	1090	1910
NORTH	Global	250	300	380	460	560	640	610	500	410	330	260	230	410
	Diffuse	250	300	380	450	510	530	520	480	410	330	260	230	390
Clear Day	Global	230	280	350	440	590	690	640	490	390	310	240	210	410
EAST	Global	510	640	790	910	990	1050	1090	1060	890	770	570	480	810
	Diffuse	300	360	460	540	610	640	630	600	520	410	320	270	470
Clear Day	Global	820	990	1180	1330	1380	1380	1350	1290	1180	1010	830	760	1130
SOUTH	Global	1090	1140	1050	880	720	640	680	850	1040	1250	1170	1100	970
	Diffuse	390	450	500	540	550	540	550	560	550	490	420	370	490
Clear Day	Global	2000	1920	1630	1170	820	690	740	1000	1410	1760	1910	1950	1410
WEST	Global	550	690	840	980	1070	1110	1080	1030	920	810	610	510	850
	Diffuse	300	370	460	560	620	650	640	610	520	420	320	280	480
Clear Day	Global	820	990	1180	1330	1380	1380	1350	1290	1180	1010	830	760	1130

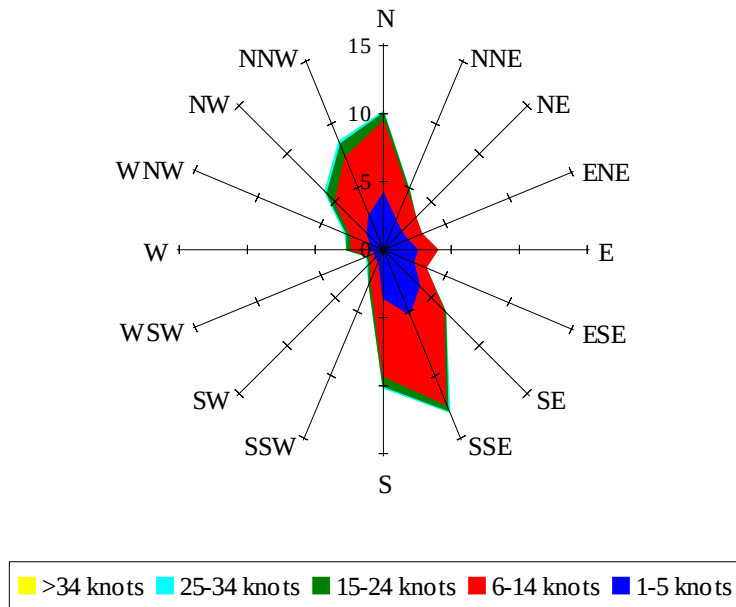
Average Annual Solar Heat and Illumination – Nearest Available Site

(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	570	760	1000	1230	1390	1490	1490	1390	1140	930	650	520	1050
NORTH	Unshaded	170	210	260	310	370	410	390	340	290	230	180	160	280
	Shaded	150	180	230	270	310	350	330	300	250	200	160	130	240
EAST	Unshaded	350	450	560	650	700	750	770	750	630	540	390	330	570
	Shaded	300	380	450	520	560	590	620	610	510	440	330	280	470
SOUTH	Unshaded	810	820	710	550	430	400	410	520	670	880	860	820	660
	Shaded	750	650	390	310	330	330	330	340	340	600	780	790	490
WEST	Unshaded	380	490	600	700	760	790	770	730	650	570	420	350	600
	Shaded	320	410	490	560	600	630	610	590	540	470	350	300	490

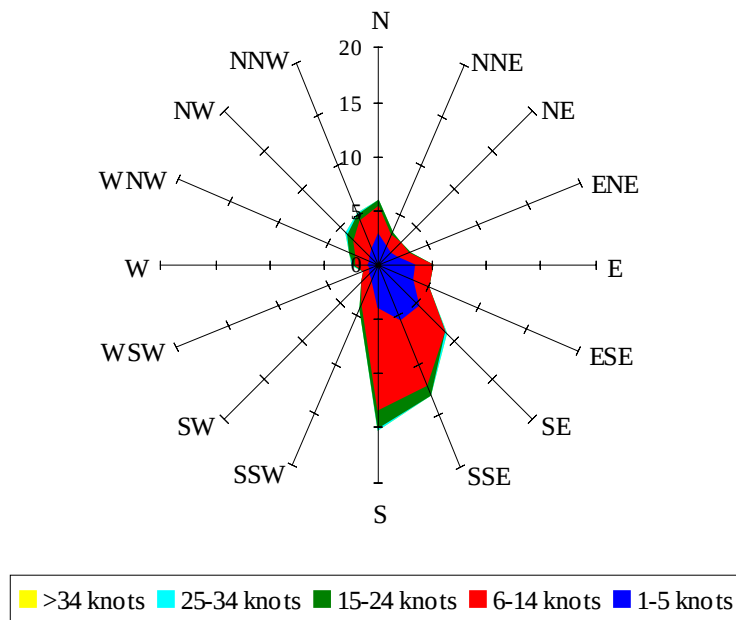
AVERAGE INCIDENT ILLUMINANCE (klux-hr) FOR MOSTLY CLEAR AND MOSTLY CLOUDY CONDITIONS, Percentage Uncertainty = 9		March					June				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	40	78	91	75	36	40	81	103	99	71
	M.Cloudy	21	46	56	45	22	26	58	78	77	53
NORTH	M.Clear	10	14	16	14	9	23	17	17	18	17
	M.Cloudy	9	17	19	16	9	15	18	19	19	17
EAST	M.Clear	78	63	16	14	9	70	75	37	18	16
	M.Cloudy	23	32	19	16	9	32	49	32	19	17
SOUTH	M.Clear	34	66	76	63	30	12	21	34	32	17
	M.Cloudy	14	32	41	33	15	11	20	30	29	17
WEST	M.Clear	10	14	18	66	75	12	17	17	49	76
	M.Cloudy	9	17	20	34	28	11	18	19	40	51
M.Clear	(% hrs)	34	35	35	37	38	39	37	32	37	45
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	69	91	85	54	19	52	61	43	8
	M.Cloudy	16	45	64	63	38	10	29	36	24	5
NORTH	M.Clear	8	15	17	17	14	6	11	12	10	4
	M.Cloudy	7	16	19	19	14	5	11	13	10	3
EAST	M.Clear	58	74	35	17	14	50	47	12	10	4
	M.Cloudy	20	40	28	19	14	12	20	13	10	3
SOUTH	M.Clear	16	49	67	62	38	42	83	92	72	20
	M.Cloudy	9	29	44	43	24	10	29	37	25	6
WEST	M.Clear	8	15	17	50	74	6	11	20	55	29
	M.Cloudy	7	16	19	37	41	5	11	15	21	8
M.Clear	(% hrs)	44	42	38	40	47	35	34	35	39	40

Wind Summary - December, January, and February **Labels of Percent Frequency on North Axis**



Percent Calm = 16.74

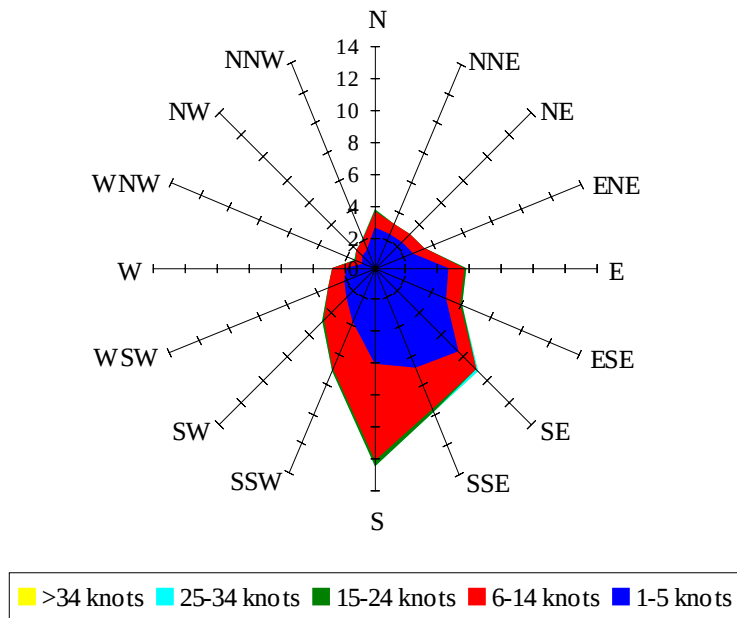
Wind Summary - March, April, and May **Labels of Percent Frequency on North Axis**



Percent Calm = 16.18

Wind Summary - June, July, and August

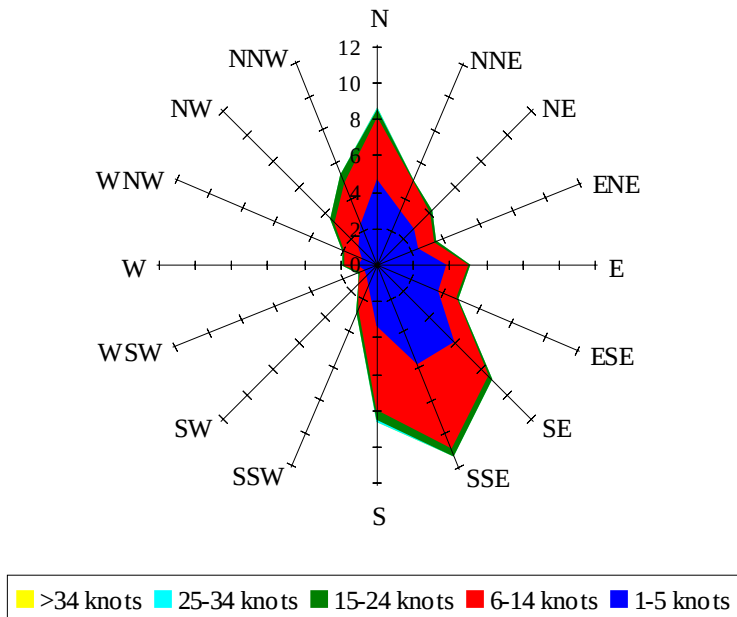
Labels of Percent Frequency on North Axis



Percent Calm = 21.89

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 22.97