

HARRISON/BOONE AR

Latitude = 36.27 N

WMO No. 723446

Longitude = 93.15 W

Elevation = 1365 feet

Period of Record = 1973 to 1996

Average Pressure = 28.56 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	97	75	100	8.7	S
0.4% Occurrence	94	75	107	9.1	S
1.0% Occurrence	92	75	108	8.9	S
2.0% Occurrence	89	74	107	9.1	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	20	18	12	9.4	NW
99.0% Occurrence	12	11	7	9.7	NW
99.6% Occurrence	7	6	6	10.5	WNW
Median of Extreme Lows	2	1	4	10.7	NW
	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	80	91	141	8.4	S
0.4% Occurrence	78	89	131	8.6	S
1.0% Occurrence	76	87	122	8.7	S
2.0% Occurrence	75	86	118	8.6	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	154	86	0.97	9.0	S
0.4% Occurrence	134	84	0.85	7.6	ESE
1.0% Occurrence	130	83	0.82	7.8	S
2.0% Occurrence	125	81	0.79	7.5	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		65	1028	644	2066

Other Site Data

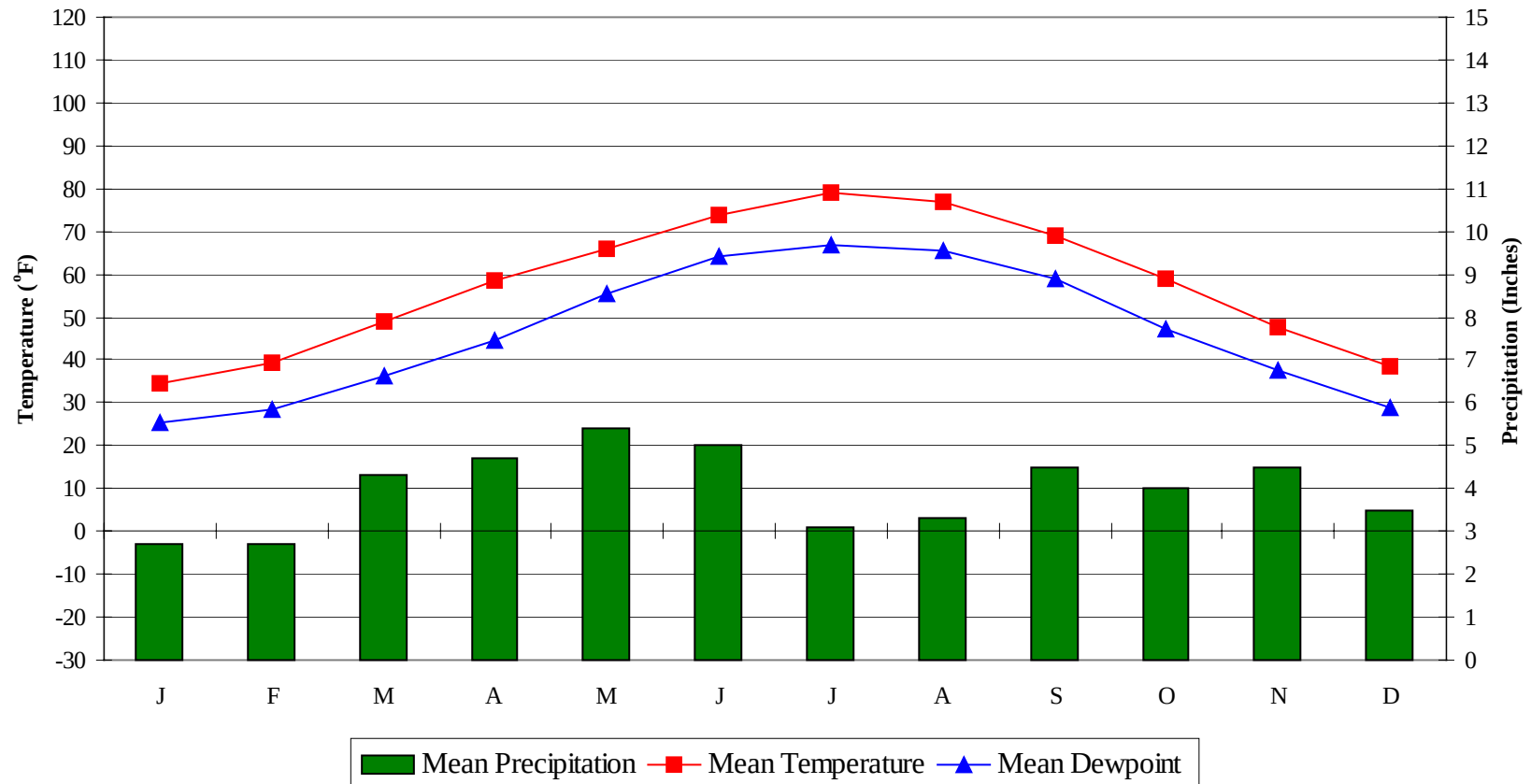
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
7	3.5	90	2.8 + 1.0
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
60.1	N/A	N/A	47

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

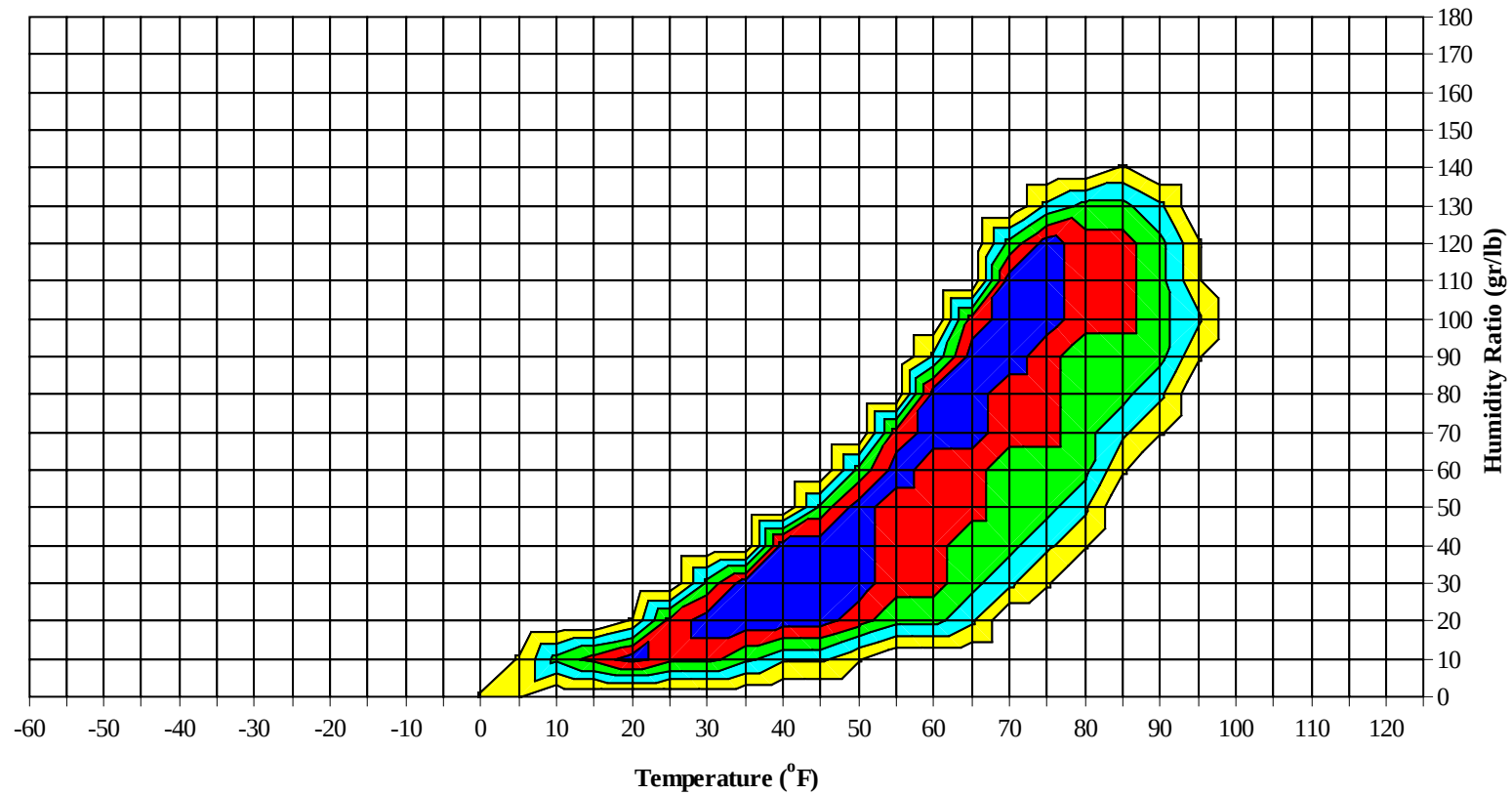
HARRISON/BOONE AR

WMO No. 723446

Average Annual Climate



Long Term Psychrometric Summary

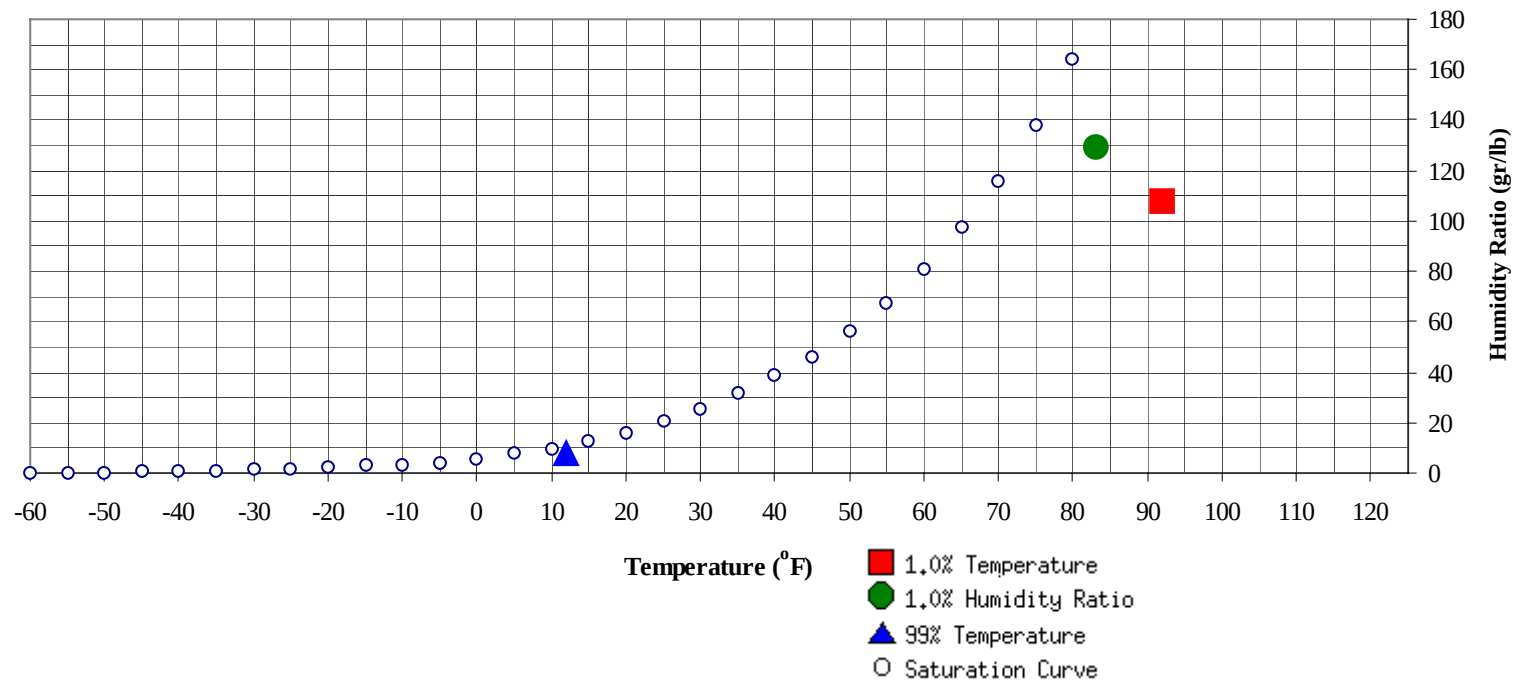


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

HARRISON/BOONE AR

WMO No. 723446

Psychrometric Summary of Peak Design Values



	(°F)	MCHR	Enthalpy	1.0% Humidity Ratio	(gr/lb)	MCDB	MCWB	MC Dewpt	Enthalpy
		(gr/lb)	(btu/lb)			(°F)	(°F)	(°F)	(btu/lb)
99% Dry Bulb	12	7.6	4.0	Ratio	129.5	83.2	75.8	73.1	40.3

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
	92	108.1	74.8	39.1

HARRISON/BOONE AR

WMO No. 723446

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	64.0
85 / 89												0	0	0	65.8
80 / 84												2	0	2	62.2
75 / 79							1	0	1	57.1		10	3	13	60.4
70 / 74		2	0	2	54.5	0	6	1	7	55.4	1	19	9	29	58.2
65 / 69	0	4	1	5	54.7	1	13	5	19	53.6	7	24	21	51	56.5
60 / 64	2	9	4	15	52.0	4	17	13	34	51.5	13	31	28	72	52.9
55 / 59	6	16	10	31	49.2	9	19	17	45	48.8	22	29	33	84	49.8
50 / 54	10	22	17	49	44.7	15	22	24	61	45.2	28	31	35	94	45.9
45 / 49	15	24	24	62	41.2	19	28	28	74	41.2	34	30	36	100	42.1
40 / 44	25	33	34	91	37.6	29	26	29	83	37.6	38	29	34	101	38.2
35 / 39	31	36	38	105	33.6	31	29	31	90	33.9	36	18	25	79	33.8
30 / 34	46	37	43	125	29.8	35	24	29	88	29.5	36	14	16	65	29.7
25 / 29	38	26	31	95	25.1	29	19	22	70	25.1	20	6	6	32	25.6
20 / 24	29	19	20	68	20.5	23	11	13	47	20.3	8	2	3	13	20.5
15 / 19	19	10	13	42	15.8	13	6	8	27	15.5	3	1	1	5	15.6
10 / 14	11	6	8	26	10.7	9	3	4	16	10.9	1	0	0	1	10.4
5 / 9	10	3	4	17	6.3	4	2	2	8	6.4	1	0		1	6.4
0 / 4	4	2	2	8	1.4	2	0	0	2	1.7	0			0	3.0
-5 / -1	1	0	1	2	-2.6	1	0	0	1	-3.3					
-10 / -6	0	0	0	0	-5.9	0			0	-6.2					
-15 / -11	0	0		0	-12.3										

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.

HARRISON/BOONE AR

WMO No. 723446

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															
95 / 99												1	0	1	74.3
90 / 94		0		0	63.3		0		0	71.3		9	3	12	74.6
85 / 89		3	1	4	64.9		9	1	10	71.9	0	47	16	63	73.6
80 / 84		14	3	17	63.9		32	12	44	69.0	3	65	37	105	71.5
75 / 79	0	27	12	40	62.1	2	53	31	86	66.3	26	58	61	144	69.3
70 / 74	4	34	26	64	60.1	20	52	51	123	64.1	58	34	62	153	67.2
65 / 69	23	38	39	101	58.0	45	43	53	140	61.3	79	18	41	139	64.3
60 / 64	33	37	43	112	54.6	60	31	47	138	58.2	46	6	17	70	59.8
55 / 59	40	31	39	111	50.8	54	19	31	104	53.8	23	1	3	26	55.2
50 / 54	38	25	29	92	46.7	36	5	17	58	49.4	5		0	5	50.7
45 / 49	40	16	24	80	42.6	21	3	5	29	45.0	0			0	47.3
40 / 44	33	10	15	58	38.6	7	0	1	8	40.5					
35 / 39	19	5	5	29	34.4	2			2	36.3					
30 / 34	8	1	2	11	30.5	0			0	31.5					
25 / 29	2	0	0	2	24.8										
20 / 24	0			0	22.0										
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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.

HARRISON/BOONE AR

WMO No. 723446

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		0	0	0	71.3										
100 / 104		2	1	3	76.2		0		0	75.4					
95 / 99		9	3	12	75.9		11	2	13	74.5		1	0	1	74.3
90 / 94	0	45	15	61	75.0		38	12	50	74.2		7	2	9	73.3
85 / 89	1	77	38	117	73.5	1	59	28	88	73.1		27	6	33	72.2
80 / 84	19	59	59	137	72.1	8	61	48	118	71.5	1	47	20	68	69.9
75 / 79	59	32	69	160	70.6	36	42	65	143	70.0	9	47	39	95	68.0
70 / 74	93	17	45	155	68.7	86	24	58	168	68.2	38	42	52	132	66.1
65 / 69	56	6	15	77	65.2	73	10	27	110	64.7	60	33	51	143	63.0
60 / 64	17	0	2	19	60.2	31	2	7	40	60.0	48	20	32	100	58.6
55 / 59	3		0	3	55.8	11	0	1	12	55.3	39	10	20	70	53.9
50 / 54	0			0	51.6	2			2	50.9	23	6	12	41	49.4
45 / 49						0			0	46.5	15	1	4	20	44.8
40 / 44											5	0	1	6	40.8
35 / 39											1		0	1	36.2
30 / 34											0			0	32.0
25 / 29															
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															

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.

HARRISON/BOONE AR

WMO No. 723446

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		0		0	62.0										
85 / 89		4	0	4	67.3										
80 / 84		14	2	16	66.5		1		1	61.2					
75 / 79	1	31	8	40	63.8	0	5	0	5	61.3		0		0	63.0
70 / 74	6	42	20	69	61.7	0	14	2	16	59.9		2	0	2	59.3
65 / 69	17	42	40	99	59.2	8	24	11	43	58.7	1	8	2	11	57.0
60 / 64	36	43	54	133	56.1	14	28	25	67	55.5	4	14	9	27	54.7
55 / 59	46	32	45	122	51.6	23	32	30	84	51.2	10	22	12	44	49.9
50 / 54	46	21	35	102	47.5	28	32	36	96	46.6	14	27	21	62	45.3
45 / 49	39	12	23	75	43.3	29	31	36	96	42.3	19	32	32	84	41.5
40 / 44	33	6	14	53	39.5	38	31	40	109	38.2	31	36	37	104	37.8
35 / 39	17	2	4	23	35.5	39	21	30	90	34.3	40	39	45	124	34.0
30 / 34	5	1	1	7	30.4	29	14	19	62	29.9	51	30	42	124	29.9
25 / 29	1	0	1	2	26.0	17	6	9	32	25.4	33	17	21	71	25.2
20 / 24	0			0	22.4	9	1	3	13	20.5	18	9	12	39	20.4
15 / 19						3	1	1	5	15.6	11	6	7	24	15.4
10 / 14						1	0	0	1	10.9	7	3	4	13	10.6
5 / 9						0		0	0	7.5	4	3	3	10	6.4
0 / 4											1	0	1	2	1.2
-5 / -1											1	1	0	2	-3.1
-10 / -6											1	0	0	1	-7.6
-15 / -11											0			0	-10.8

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.

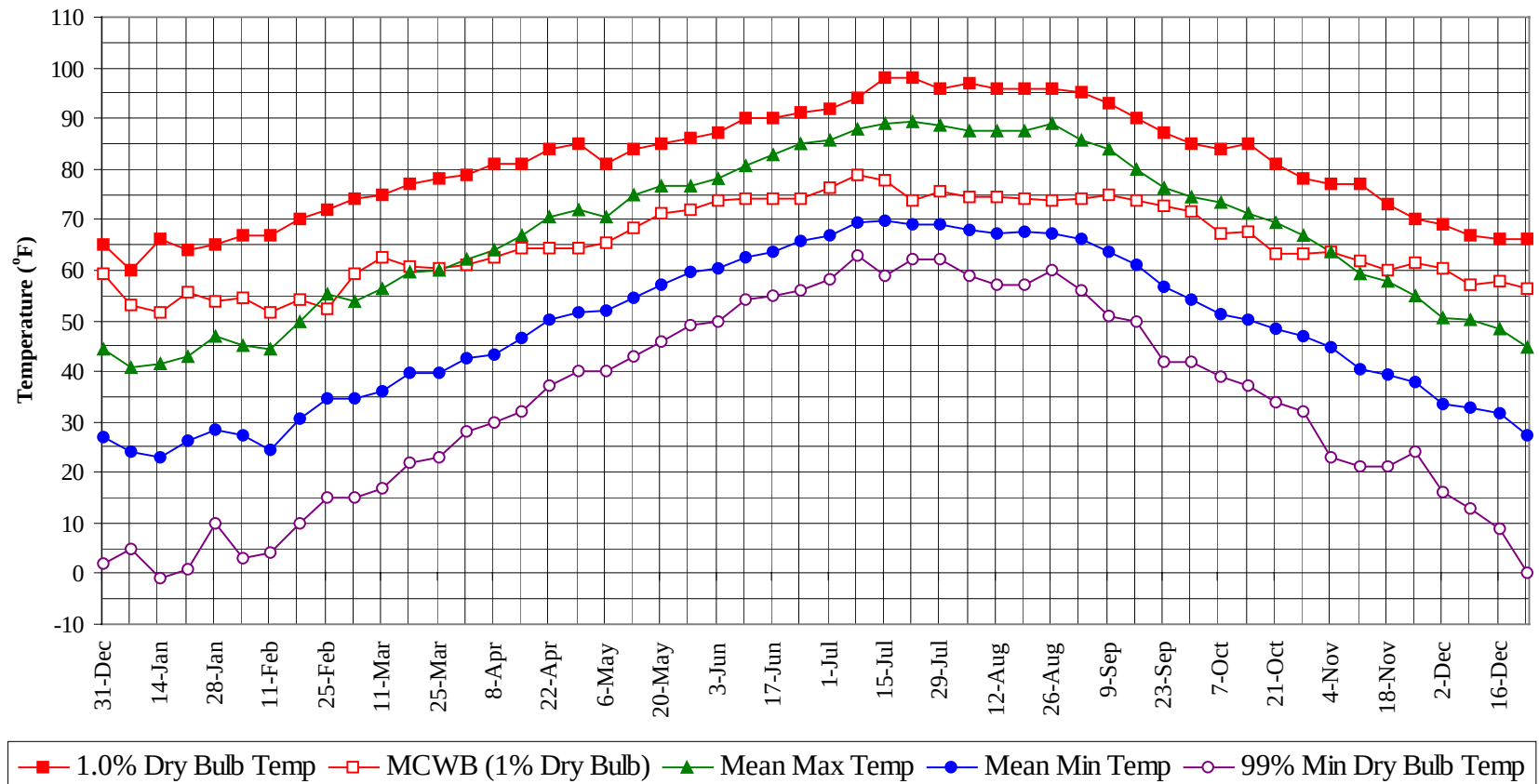
WMO No. 723446

Period of Record = 1973 to 1996

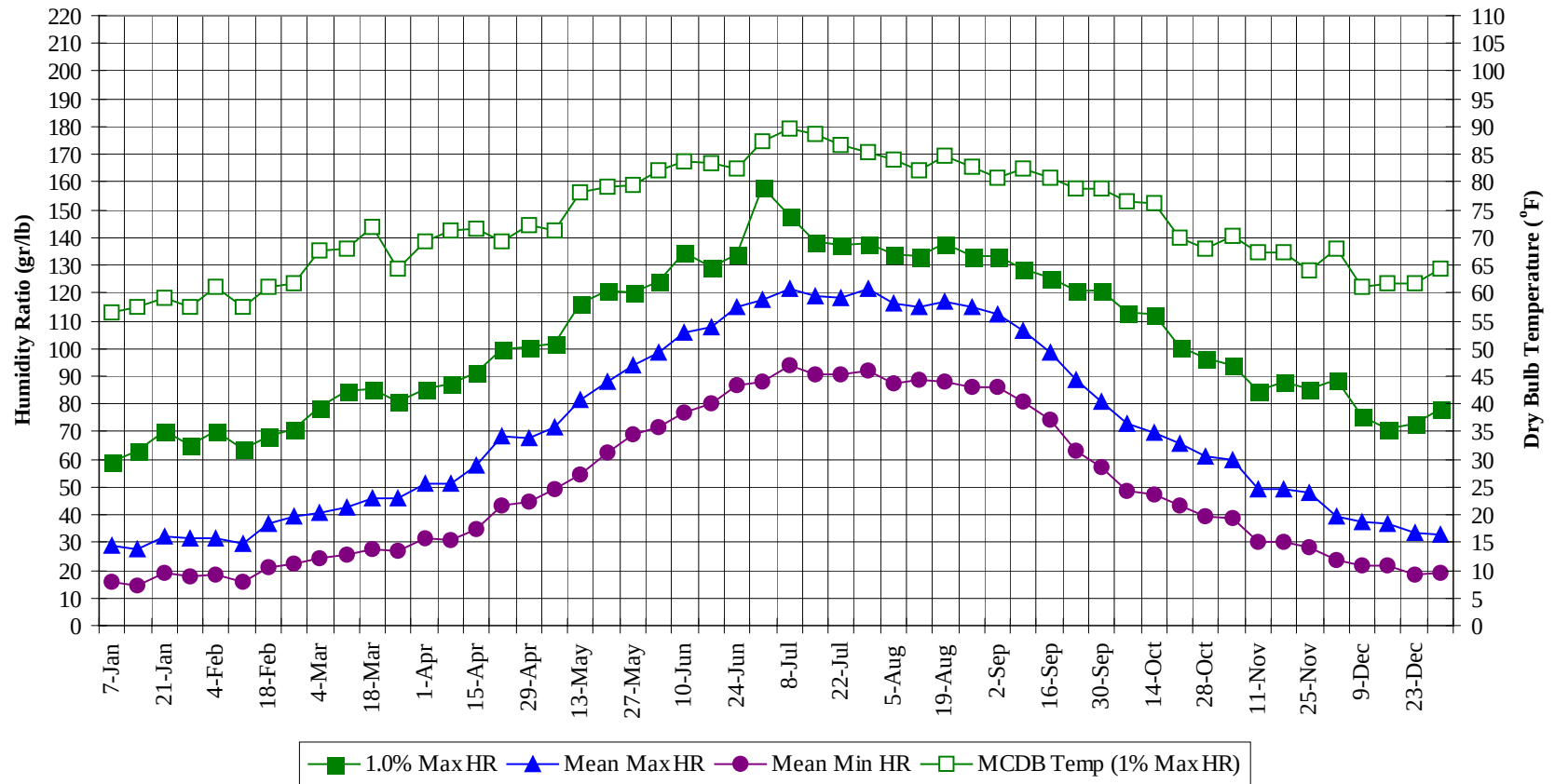
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109	0	0	0	71.3	
100 / 104	2	1	3	76.1	
95 / 99	22	6	28	75.1	
90 / 94	0	100	32	133	74.5
85 / 89	2	224	89	316	73.0
80 / 84	33	293	177	503	70.7
75 / 79	135	305	283	722	68.2
70 / 74	311	288	322	920	65.5
65 / 69	373	265	303	940	61.5
60 / 64	314	238	277	828	56.5
55 / 59	287	212	242	741	51.6
50 / 54	247	189	226	662	46.7
45 / 49	233	176	215	624	42.3
40 / 44	238	171	208	617	38.2
35 / 39	213	150	180	543	34.0
30 / 34	206	121	154	481	29.8
25 / 29	137	75	92	303	25.2
20 / 24	86	42	52	181	20.4
15 / 19	49	23	31	103	15.6
10 / 14	27	14	15	56	10.7
5 / 9	18	8	9	36	6.4
0 / 4	8	2	4	13	1.4
-5 / -1	3	1	1	5	-2.9
-10 / -6	1	0	1	2	-7.0
-15 / -11	0	0	0	-11.5	

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.

Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

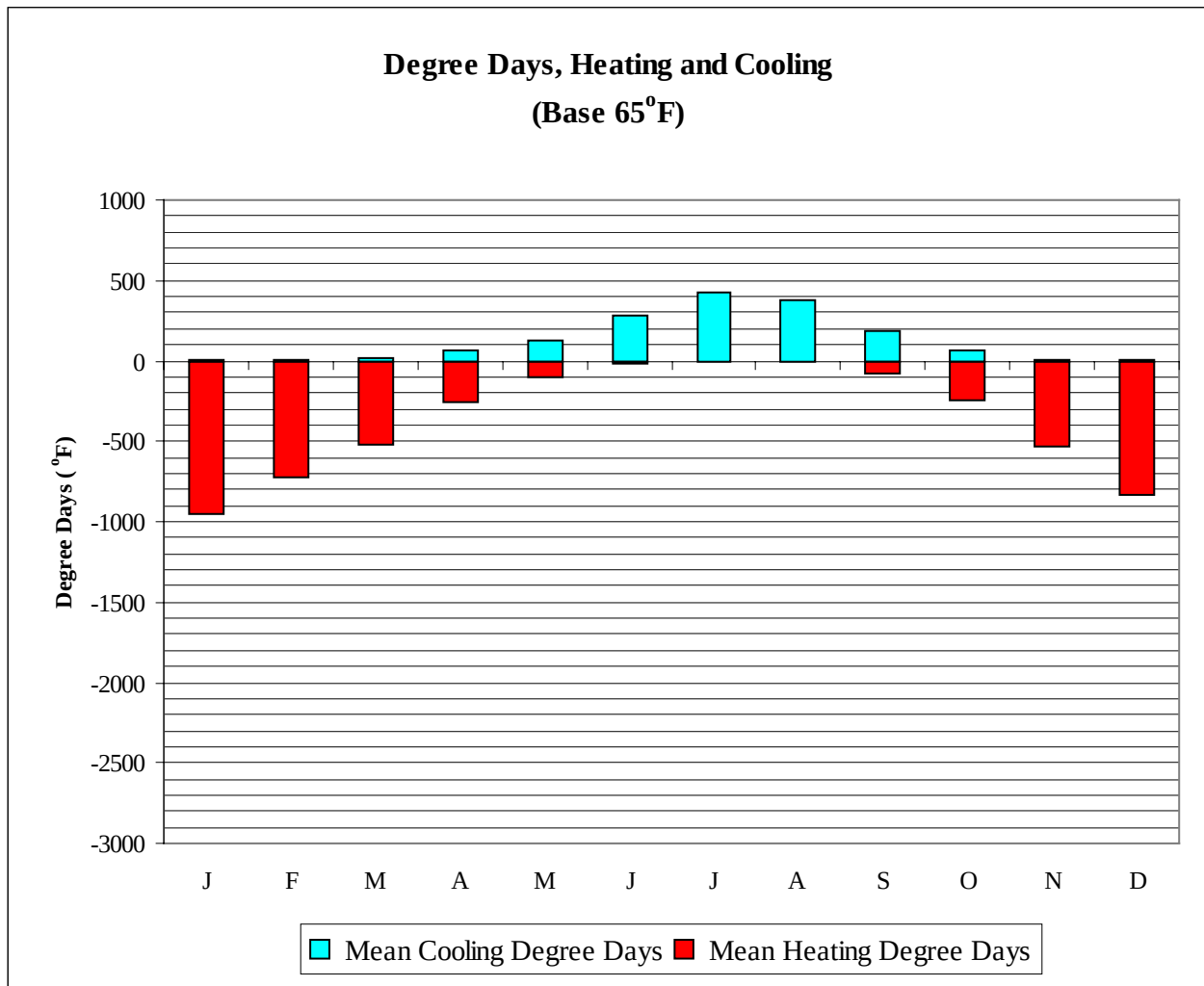


HARRISON/BOONE AR

WMO No. 723446

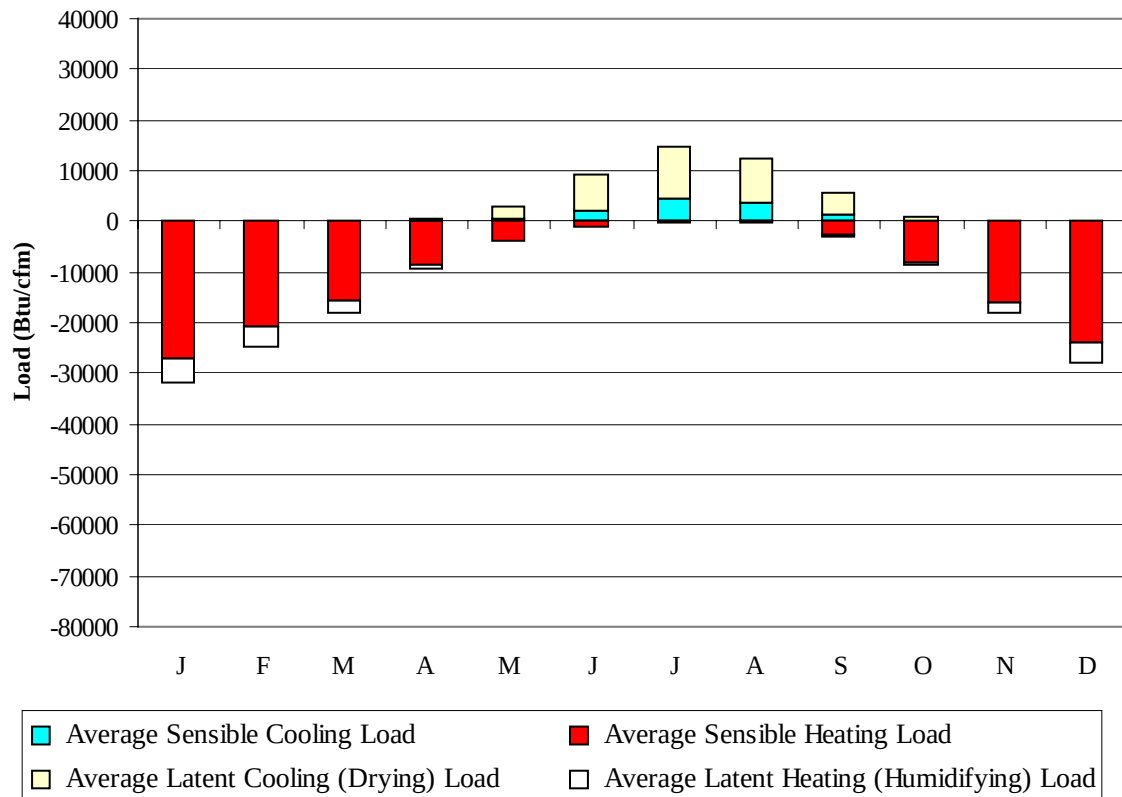
Long Term Dry Bulb Temperature and Humidity Summary

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	60.0	53.0	40.9	24.2	5.0	58.8	56.5	28.8	15.9
14-Jan	66.0	51.7	41.5	23.1	-1.0	63.0	57.5	27.9	14.7
21-Jan	64.0	55.5	43.1	26.4	1.0	70.0	59.0	32.4	18.9
28-Jan	65.0	53.7	46.9	28.4	10.0	65.1	57.6	31.6	17.8
4-Feb	67.0	54.4	45.0	27.3	3.0	70.0	61.1	31.6	18.3
11-Feb	67.0	51.7	44.3	24.5	4.0	63.7	57.5	29.7	15.7
18-Feb	70.0	54.3	49.8	30.7	10.0	68.6	61.0	36.5	20.8
25-Feb	72.0	52.5	55.2	34.5	15.0	70.7	61.6	39.5	22.6
4-Mar	74.0	59.2	53.8	34.5	15.0	79.1	67.8	40.4	24.5
11-Mar	75.0	62.6	56.5	36.2	17.0	84.7	68.1	42.7	25.9
18-Mar	77.0	60.8	59.7	39.5	22.0	85.4	71.9	45.9	27.5
25-Mar	78.0	60.3	60.0	39.8	23.0	80.5	64.4	46.0	27.1
1-Apr	79.0	61.0	62.0	42.5	28.0	85.4	69.2	51.5	31.6
8-Apr	81.0	62.4	63.9	43.2	30.0	87.5	71.3	51.5	31.0
15-Apr	81.0	64.2	67.0	46.6	32.0	91.0	71.5	57.6	34.9
22-Apr	84.0	64.5	70.6	50.1	37.0	100.1	69.3	68.1	43.7
29-Apr	85.0	64.4	71.8	51.7	40.0	100.8	72.3	67.9	44.5
6-May	81.0	65.4	70.6	51.9	40.0	101.5	71.2	71.7	49.0
13-May	84.0	68.3	74.8	54.5	43.0	116.2	78.2	81.6	54.7
20-May	85.0	71.1	76.6	57.0	46.0	121.1	79.3	88.0	62.2
27-May	86.0	71.9	76.6	59.4	49.0	120.4	79.3	93.9	69.3
3-Jun	87.0	73.6	78.2	60.3	50.0	123.9	82.2	98.2	71.7
10-Jun	90.0	74.3	80.8	62.5	54.0	134.4	83.7	105.6	77.1
17-Jun	90.0	74.0	82.8	63.6	55.0	129.5	83.3	107.9	80.1
24-Jun	91.0	74.1	84.9	65.8	56.0	133.7	82.5	114.9	86.5
1-Jul	92.0	76.4	85.6	66.8	58.0	158.2	87.4	117.7	88.1
8-Jul	94.0	78.9	87.8	69.5	63.0	147.7	89.7	121.7	94.1
15-Jul	98.0	77.9	88.9	69.7	59.0	138.6	88.8	118.7	90.5
22-Jul	98.0	73.7	89.2	69.1	62.0	137.2	86.6	118.4	90.4
29-Jul	96.0	75.7	88.6	69.1	62.0	137.9	85.4	121.4	92.3
5-Aug	97.0	74.6	87.4	67.9	59.0	133.7	84.0	116.2	87.6
12-Aug	96.0	74.5	87.5	67.3	57.0	133.0	82.1	114.9	88.7
19-Aug	96.0	74.2	87.4	67.5	57.0	137.9	84.6	116.8	87.8
26-Aug	96.0	73.8	88.9	67.2	60.0	133.0	82.8	115.2	86.3
2-Sep	95.0	74.3	85.9	66.2	56.0	133.0	80.8	112.0	85.9
9-Sep	93.0	74.8	83.8	63.5	51.0	128.8	82.4	106.5	80.5
16-Sep	90.0	73.7	79.7	61.2	50.0	125.3	80.7	98.8	73.9
23-Sep	87.0	72.8	76.4	56.6	42.0	121.1	78.8	88.8	62.8
30-Sep	85.0	71.7	74.4	54.3	42.0	121.1	79.0	80.6	57.4
7-Oct	84.0	67.2	73.3	51.2	39.0	112.7	76.5	73.1	48.7
14-Oct	85.0	67.7	71.2	50.3	37.0	112.0	76.3	69.9	47.1
21-Oct	81.0	63.1	69.3	48.4	34.0	100.8	70.1	65.6	43.3
28-Oct	78.0	63.2	66.8	46.8	32.0	96.6	67.9	61.3	39.7
4-Nov	77.0	63.5	63.6	44.6	23.0	93.8	70.2	60.0	38.8
11-Nov	77.0	61.6	59.3	40.3	21.0	84.7	67.3	49.5	30.4
18-Nov	73.0	59.9	57.8	39.4	21.0	88.2	67.3	49.0	30.2
25-Nov	70.0	61.5	54.9	37.7	24.0	85.4	64.0	47.8	28.2
2-Dec	69.0	60.4	50.5	33.5	16.0	88.9	68.0	39.3	23.6
9-Dec	67.0	57.0	50.4	32.8	13.0	75.6	61.2	37.6	21.9
16-Dec	66.0	57.6	48.5	31.5	9.0	70.7	61.7	36.8	21.8
23-Dec	66.0	56.2	44.7	27.3	0.0	72.8	61.8	33.6	18.5
31-Dec	65.0	59.4	44.2	27.2	2.0	78.4	64.5	33.0	19.1



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	1	948
FEB	4	725
MAR	19	520
APR	60	261
MAY	130	104
JUN	280	17
JUL	431	3
AUG	378	8
SEP	191	73
OCT	60	248
NOV	10	535
DEC	1	827
ANN	1564	4269

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	0	-26980	0	-4975
FEB	1	-20940	0	-3759
MAR	41	-15669	20	-2172
APR	227	-8504	211	-672
MAY	579	-3931	2165	-46
JUN	2074	-882	7082	0
JUL	4367	-195	10558	0
AUG	3601	-441	8867	0
SEP	1291	-2815	4205	-20
OCT	214	-8235	585	-414
NOV	12	-16061	57	-1991
DEC	0	-23813	8	-3976
ANN	12407	-128466	33758	-18025

Average Annual Solar Radiation – Nearest Available Site

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

City: SPRINGFIELD
 State: MO
 WBAN No: 13995
 Lat(N): 37.23
 Long(W): 93.38
 Elev(ft): 1270

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.455
 Vert Gap: 0.304

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	750	970	1290	1640	1870	2030	2080	1870	1480	1160	780	640	1380
	Std Dev	62	56	110	113	125	131	131	111	115	126	79	52	39
	Minimum	620	880	1080	1320	1580	1800	1870	1670	1200	870	630	560	1330
	Maximum	850	1080	1490	1830	2120	2330	2380	2100	1720	1360	950	770	1460
	Diffuse	330	450	580	690	790	820	770	700	600	440	350	310	570
Clear Day	Global	1020	1360	1820	2260	2540	2630	2560	2320	1930	1460	1070	900	1820
NORTH	Global	220	280	360	440	550	630	610	490	390	300	230	190	390
	Diffuse	220	280	360	430	500	530	510	460	380	300	230	190	370
Clear Day	Global	200	260	340	430	580	680	630	470	360	280	210	180	390
EAST	Global	490	600	770	940	1030	1090	1140	1060	890	730	510	420	810
	Diffuse	260	340	440	530	600	620	620	560	480	370	280	230	440
Clear Day	Global	730	930	1150	1340	1440	1450	1420	1340	1190	970	770	670	1120
SOUTH	Global	1140	1130	1090	960	800	730	790	950	1090	1240	1090	1020	1000
	Diffuse	370	430	490	530	550	550	550	520	440	370	330	330	470
Clear Day	Global	1960	1970	1750	1330	990	840	890	1160	1550	1850	1910	1900	1500
WEST	Global	500	620	780	950	1060	1140	1180	1080	890	740	520	430	820
	Diffuse	260	350	440	530	600	630	630	570	480	370	280	240	450
Clear Day	Global	730	930	1150	1340	1440	1450	1420	1340	1190	970	770	670	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

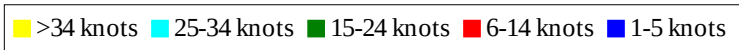
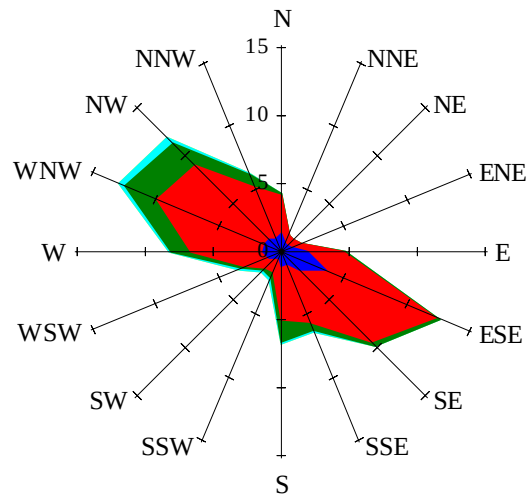
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	490	670	910	1190	1360	1480	1520	1360	1060	810	520	410	980
NORTH	Unshaded	150	200	250	300	360	400	390	320	270	210	160	140	260
	Shaded	140	180	230	270	330	370	350	300	240	190	140	120	240
EAST	Unshaded	340	420	540	670	730	780	820	750	630	510	350	290	570
	Shaded	310	380	480	590	640	680	720	670	560	460	320	260	510
SOUTH	Unshaded	860	820	750	620	490	440	470	580	720	890	810	770	680
	Shaded	840	760	610	430	350	350	350	390	540	790	780	750	580
WEST	Unshaded	340	440	560	680	750	810	840	770	640	520	360	300	580
	Shaded	310	400	500	600	660	710	740	680	570	470	330	270	520

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	38	73	85	70	32	44	83	102	98	71
	M.Cloudy	21	44	52	43	19	27	56	71	72	50
NORTH	M.Clear	9	14	15	14	9	21	16	17	17	16
	M.Cloudy	9	15	17	15	8	14	17	19	19	16
EAST	M.Clear	75	61	15	14	9	76	75	36	17	16
	M.Cloudy	23	31	17	15	8	33	46	29	19	16
SOUTH	M.Clear	36	70	81	67	31	11	27	42	39	20
	M.Cloudy	14	34	42	33	14	11	23	33	33	19
WEST	M.Clear	9	14	19	65	71	11	16	17	48	78
	M.Cloudy	9	15	19	33	25	11	17	19	38	48
M.Clear	(% hrs)	35	33	32	32	35	41	39	37	38	46
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	66	87	82	52	14	44	52	35	4
	M.Cloudy	15	41	57	54	34	8	24	30	20	3
NORTH	M.Clear	8	14	16	16	12	5	10	11	9	2
	M.Cloudy	6	15	18	17	12	4	10	12	8	2
EAST	M.Clear	62	73	33	16	12	42	44	11	9	2
	M.Cloudy	21	36	25	17	12	10	18	12	8	2
SOUTH	M.Clear	18	53	73	68	41	36	81	91	70	12
	M.Cloudy	9	28	42	40	23	9	27	33	23	4
WEST	M.Clear	8	14	16	50	75	5	10	19	51	17
	M.Cloudy	6	15	18	32	36	4	10	14	18	5
M.Clear	(% hrs)	45	45	40	41	45	34	34	35	35	38

Wind Summary - December, January, and February

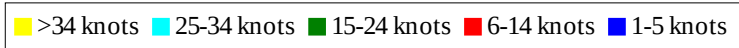
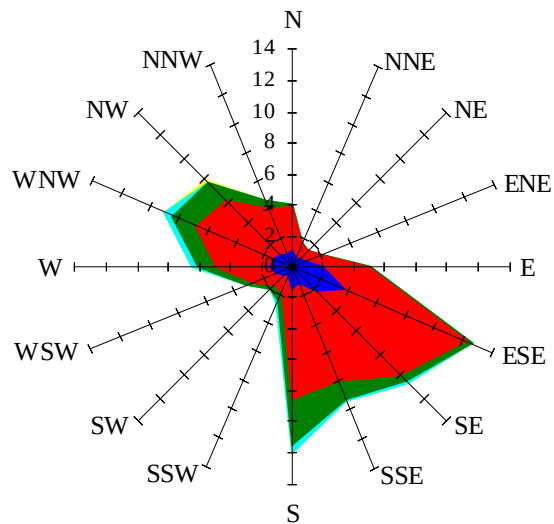
Labels of Percent Frequency on North Axis



Percent Calm = 5.72

Wind Summary - March, April, and May

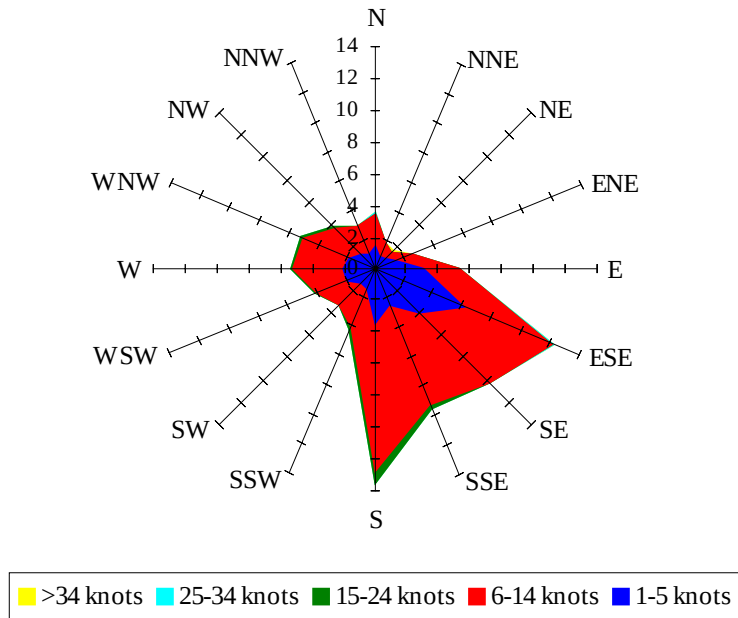
Labels of Percent Frequency on North Axis



Percent Calm = 5.96

Wind Summary - June, July, and August

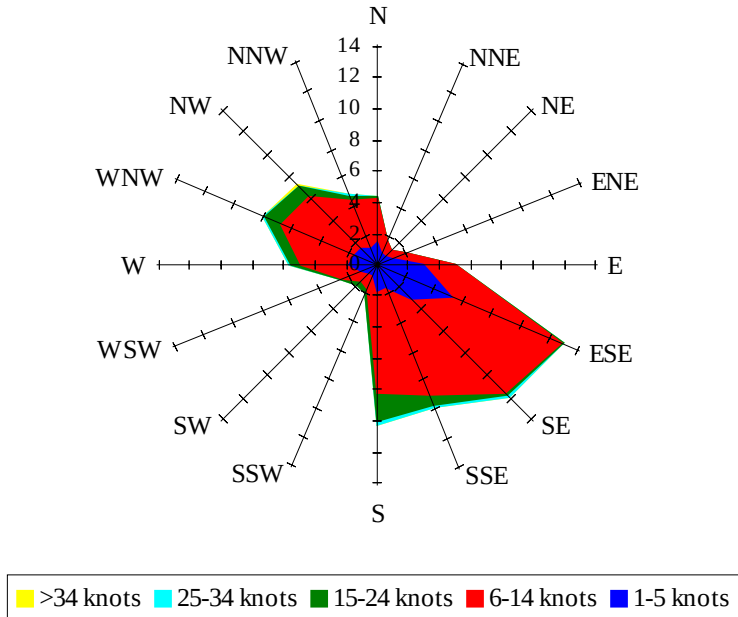
Labels of Percent Frequency on North Axis



Percent Calm = 11.81

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 9.64