

FORT WAYNE/BAER IN

Latitude = 41.00 N

WMO No. 725330

Longitude = 85.20 W

Elevation = 827 feet

Period of Record = 1973 to 1996

Average Pressure = 29.13 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	95	75	105	12.3	W
0.4% Occurrence	91	74	105	11.4	SW
1.0% Occurrence	88	73	101	10.9	SW
2.0% Occurrence	86	72	97	10.5	SW
Mean Daily Range	18	-	-	-	-
97.5% Occurrence	9	8	6	9.9	W
99.0% Occurrence	1	0	4	10.6	W
99.6% Occurrence	-4	-5	3	10.6	W
Median of Extreme Lows	-9	-9	2	10.4	W
	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	90	140	11.0	WSW
0.4% Occurrence	78	87	131	10.7	SW
1.0% Occurrence	76	84	124	10.1	SW
2.0% Occurrence	74	82	116	9.5	SW
	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	145	86	0.94	9.0	SW
0.4% Occurrence	134	84	0.88	8.8	WSW
1.0% Occurrence	127	81	0.82	9.6	SW
2.0% Occurrence	121	80	0.79	8.2	SW
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		19	598	318	1165

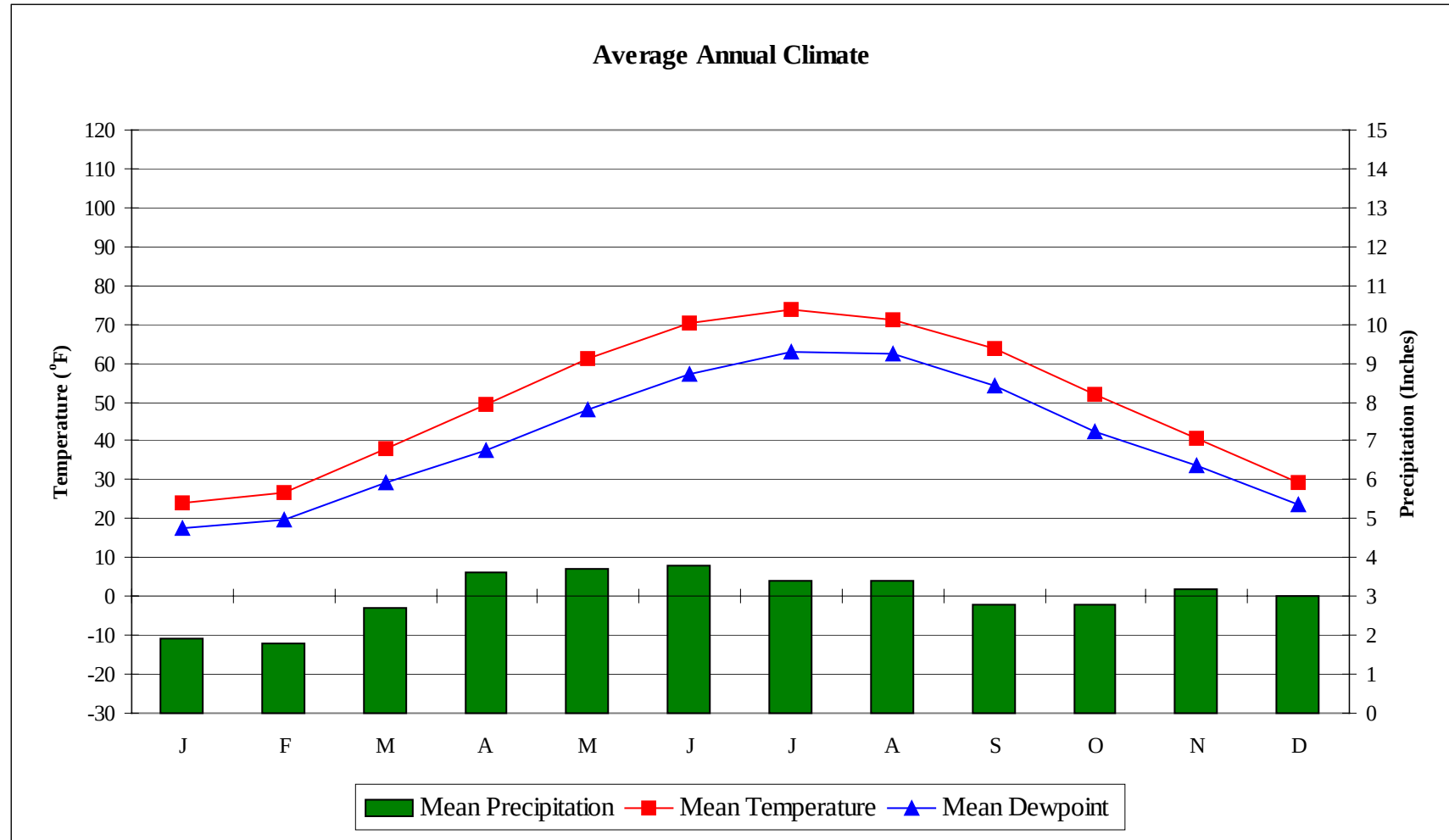
Other Site Data

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
6	2.8	90	1.7 + 0.6
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 (#)
52.6	64	20	56

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

FORT WAYNE/BAER IN

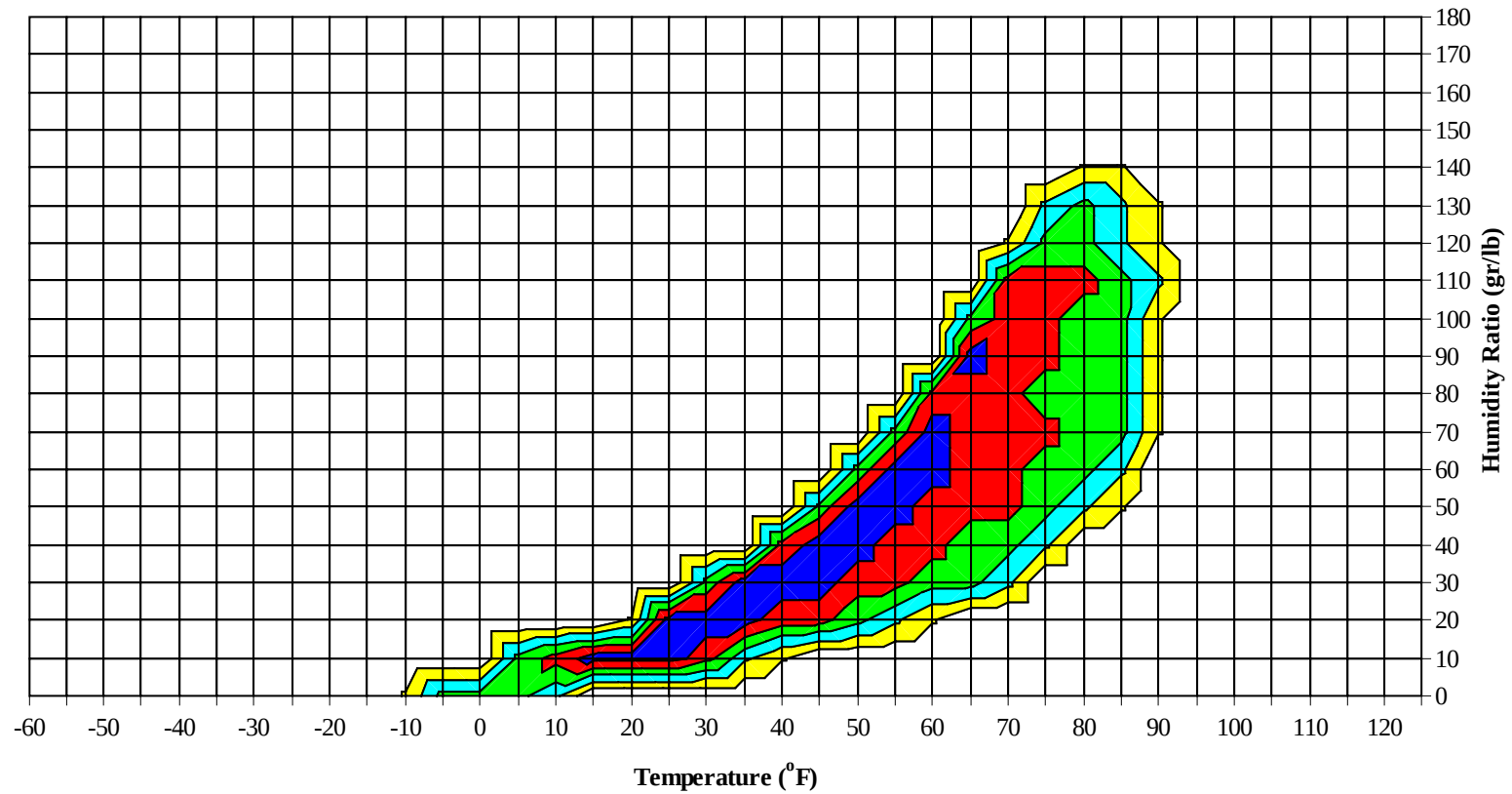
WMO No. 725330



FORT WAYNE/BAER IN

WMO No. 725330

Long Term Psychrometric Summary

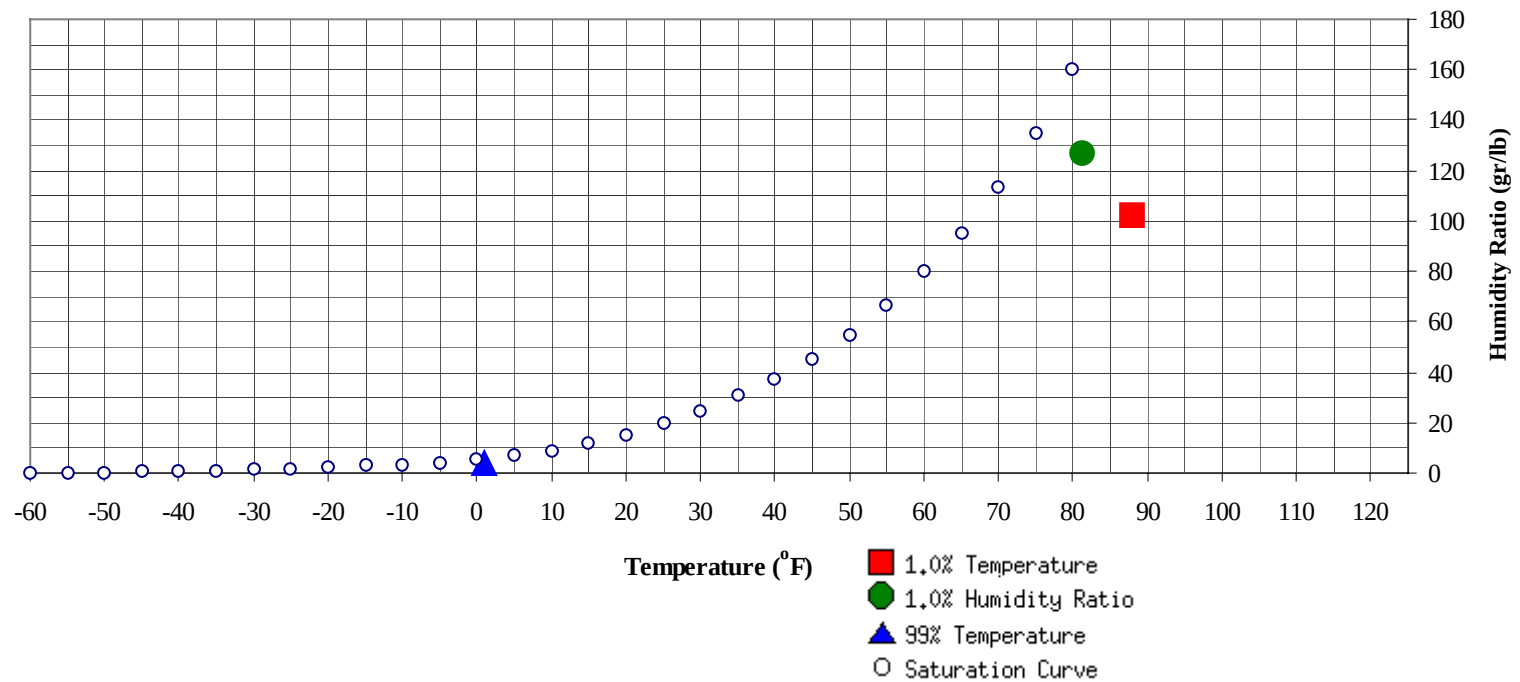


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

FORT WAYNE/BAER IN

WMO No. 725330

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	1	4.1	0.9	Ratio	126.7	81.2	75.3	73.1	39.3

1.0% Dry Bulb	(°F)	MCHR	MCWB	Enthalpy
		(gr/lb)	(°F)	(btu/lb)
	88	102.3	73.1	37.2

FORT WAYNE/BAER IN

WMO No. 725330

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															
85 / 89															
80 / 84												0	0	0	59.5
75 / 79												1	0	1	60.1
70 / 74							0		0	62.0		5	2	7	59.2
65 / 69							0	0	0	58.4	0	8	4	12	57.3
60 / 64		0	0	0	54.8		2	1	3	52.5	4	11	9	24	55.1
55 / 59	1	1	1	3	53.4	0	3	2	5	50.6	9	16	14	39	50.9
50 / 54	2	4	3	9	48.6	3	5	4	12	47.1	8	21	18	47	46.2
45 / 49	3	5	4	12	43.6	4	11	9	24	43.0	16	27	27	71	42.3
40 / 44	7	11	12	30	39.6	10	23	16	49	38.6	26	39	32	98	38.2
35 / 39	22	33	25	80	34.4	24	30	36	90	34.5	42	46	51	139	33.8
30 / 34	47	49	51	147	30.2	43	41	38	122	30.1	57	35	45	137	29.6
25 / 29	37	40	40	117	25.2	37	33	38	108	24.8	39	22	24	86	24.8
20 / 24	35	35	33	103	20.3	28	28	27	83	20.0	24	9	13	46	20.1
15 / 19	28	24	31	83	15.5	19	16	18	53	15.5	13	5	5	23	15.5
10 / 14	25	18	20	63	10.8	17	15	15	47	10.6	5	2	2	9	10.8
5 / 9	17	12	11	40	6.1	15	8	9	32	6.0	3	0	1	4	5.9
0 / 4	11	7	9	27	1.1	12	5	6	23	1.2	1	0	0	1	1.5
-5 / -1	6	3	4	13	-3.0	6	2	3	11	-3.0	0	0		0	-2.5
-10 / -6	5	2	2	9	-7.4	4	1	1	6	-7.4	0			0	-6.3
-15 / -11	2	1	2	5	-12.6	2	0	0	2	-11.4					
-20 / -16	1	1	0	2	-16.7	0	0		0	-16.8					
-25 / -21	0	0		0	-20.7										

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.

FORT WAYNE/BAER IN

WMO No. 725330

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												0		0	75.0
100 / 104												0	0	0	74.6
95 / 99												1	1	2	73.2
90 / 94							1	0	1	67.3		9	4	13	72.0
85 / 89		1	0	1	65.9		10	5	15	68.4		27	14	41	70.6
80 / 84		6	2	8	64.0		21	10	31	66.7	1	45	29	75	68.4
75 / 79	0	7	4	11	62.5	1	25	17	43	64.1	10	53	41	104	66.4
70 / 74	0	14	9	23	60.0	8	39	32	79	61.6	38	49	56	143	64.5
65 / 69	4	23	17	44	57.1	22	45	42	109	58.8	61	31	46	138	61.6
60 / 64	16	27	24	67	54.1	43	42	47	132	55.6	58	17	30	105	57.4
55 / 59	20	34	33	87	49.9	44	30	37	111	51.4	39	6	15	60	53.2
50 / 54	25	36	36	98	46.1	48	21	32	101	47.2	24	1	5	30	49.0
45 / 49	35	35	40	110	42.2	44	10	19	73	43.4	8	0	1	9	44.6
40 / 44	49	29	35	113	38.3	26	2	6	34	39.1	1			1	41.2
35 / 39	40	16	22	78	33.8	10	0	2	12	34.6					
30 / 34	33	8	12	53	29.6	3		0	3	30.0					
25 / 29	14	1	4	19	25.0	0			0	27.4					
20 / 24	4	0	1	5	20.9										
15 / 19	1	0	0	1	16.1										
10 / 14	0			0	11.7										
5 / 9	0			0	8.0										
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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FORT WAYNE/BAER IN

WMO No. 725330

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															
100 / 104		0	0	0	74.9										
95 / 99		3	2	5	74.7		1	0	1	77.9		0	0	0	72.1
90 / 94		16	7	23	75.5		8	3	11	76.6		2	1	3	72.9
85 / 89		41	21	62	72.7		29	11	40	74.1		10	3	13	71.6
80 / 84	4	69	45	119	70.2	1	58	31	91	70.9	0	29	11	40	69.4
75 / 79	23	59	55	138	68.8	12	65	51	128	69.0	3	37	22	62	67.1
70 / 74	59	40	59	158	66.7	49	53	63	166	67.0	17	47	40	104	64.8
65 / 69	76	15	39	130	63.5	67	24	49	141	63.7	36	43	46	125	61.6
60 / 64	55	4	15	74	59.2	62	8	28	98	59.7	41	38	45	124	57.3
55 / 59	25	0	3	28	54.7	36	1	10	47	55.2	47	22	37	106	53.3
50 / 54	7		0	7	50.3	17	0	1	18	50.7	46	10	22	78	49.4
45 / 49	0			0	46.2	3		0	3	46.1	30	1	11	42	45.0
40 / 44						1			1	41.9	14	0	3	17	40.6
35 / 39											5	0	0	5	36.3
30 / 34											1		0	1	32.0
25 / 29											0			0	29.0
20 / 24															
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															

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FORT WAYNE/BAER IN

WMO No. 725330

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															
85 / 89		0	0	0	64.6										
80 / 84		4	1	5	64.4										
75 / 79		10	3	13	63.3		0		0	62.3					
70 / 74	1	22	9	32	60.6		3	0	3	60.1		0	0	0	65.3
65 / 69	7	28	19	54	58.8	1	7	3	11	59.3	0	0	0	0	62.6
60 / 64	18	39	33	90	55.7	8	15	13	36	57.0	1	3	1	5	58.9
55 / 59	26	41	38	105	51.5	15	20	16	51	53.0	3	4	4	11	53.9
50 / 54	41	44	49	134	47.4	19	26	21	66	47.7	5	7	6	18	49.4
45 / 49	44	31	40	115	43.3	19	33	27	79	43.1	6	9	7	22	43.7
40 / 44	45	20	33	98	39.2	31	39	39	109	38.8	12	21	16	49	39.5
35 / 39	36	6	17	59	34.9	41	42	44	127	34.1	33	47	37	118	34.6
30 / 34	20	2	6	28	30.9	54	35	47	136	29.8	58	59	73	190	30.2
25 / 29	7	0	1	8	26.2	33	13	22	68	25.3	46	37	39	123	25.2
20 / 24	1		0	1	21.7	14	4	6	24	20.7	29	24	22	75	20.5
15 / 19	0			0	18.0	5	1	1	7	16.3	18	14	17	49	15.6
10 / 14						2	0	1	3	11.1	16	9	11	36	10.9
5 / 9						0	0		0	7.4	9	5	6	20	6.1
0 / 4											6	4	5	15	1.1
-5 / -1											3	2	1	6	-2.9
-10 / -6											2	1	1	4	-7.3
-15 / -11											1	0	0	1	-12.0
-20 / -16											1	0	0	1	-16.9
-25 / -21															

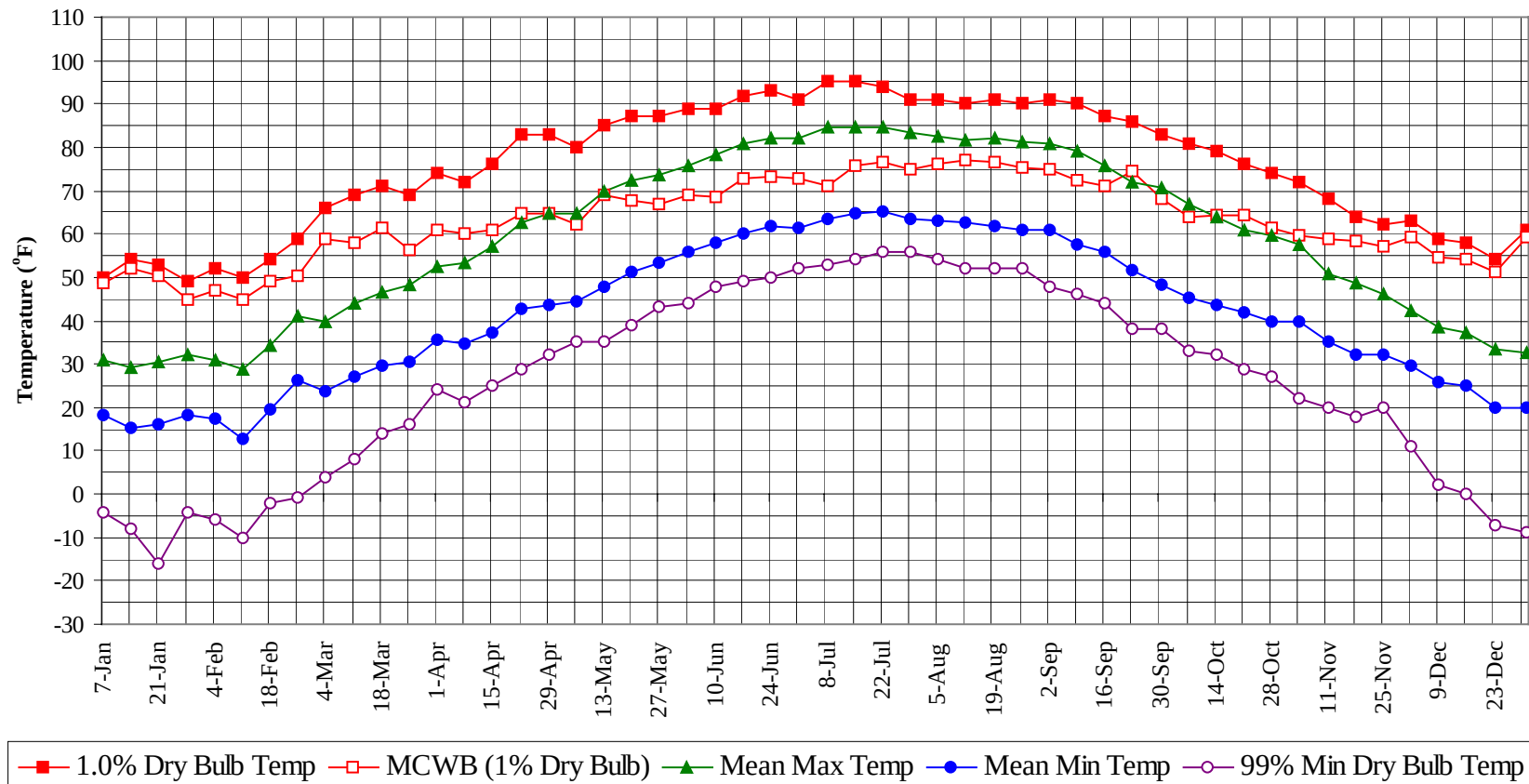
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FORT WAYNE/BAER IN WMO No. 725330
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

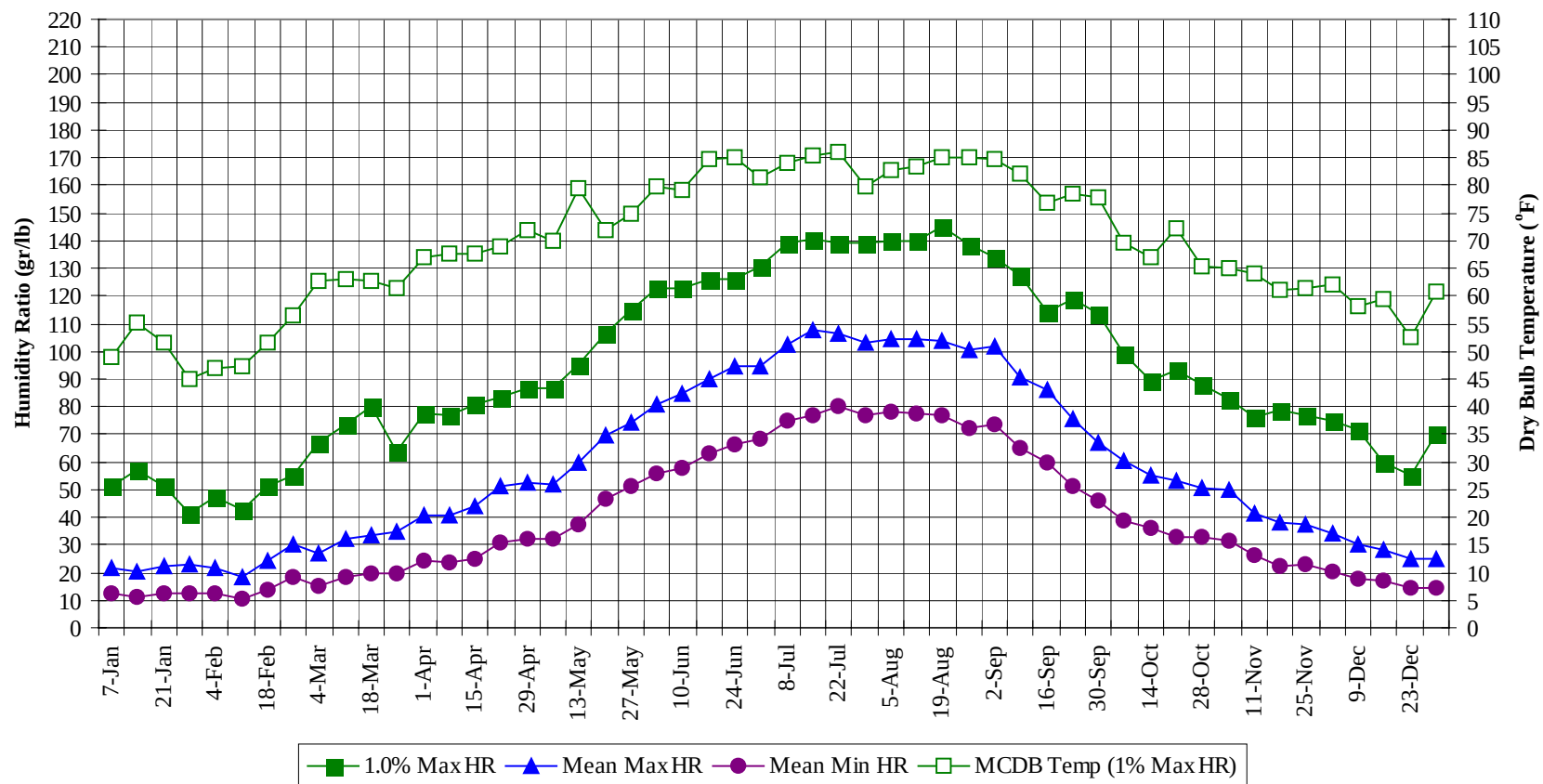
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
105 / 109	0			0	75.0
100 / 104	1			0	1 74.8
95 / 99	6			2	8 74.7
90 / 94	36			15	51 74.4
85 / 89	119			54	173 72.0
80 / 84	5	232	129	366	69.4
75 / 79	50	257	193	500	67.4
70 / 74	173	272	270	715	64.9
65 / 69	275	225	266	766	61.4
60 / 64	303	206	245	754	57.0
55 / 59	262	180	208	650	52.2
50 / 54	242	175	197	614	47.7
45 / 49	210	164	184	558	43.1
40 / 44	221	186	193	600	38.8
35 / 39	253	222	235	710	34.3
30 / 34	315	232	270	817	30.0
25 / 29	213	147	169	530	25.1
20 / 24	137	102	103	342	20.3
15 / 19	84	61	73	218	15.5
10 / 14	66	45	50	161	10.8
5 / 9	45	26	28	99	6.1
0 / 4	31	16	20	67	1.2
-5 / -1	16	6	8	30	-3.0
-10 / -6	11	3	5	19	-7.4
-15 / -11	4	2	2	8	-12.2
-20 / -16	2	1	0	3	-16.7
-25 / -21	0	0		0	-20.7

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

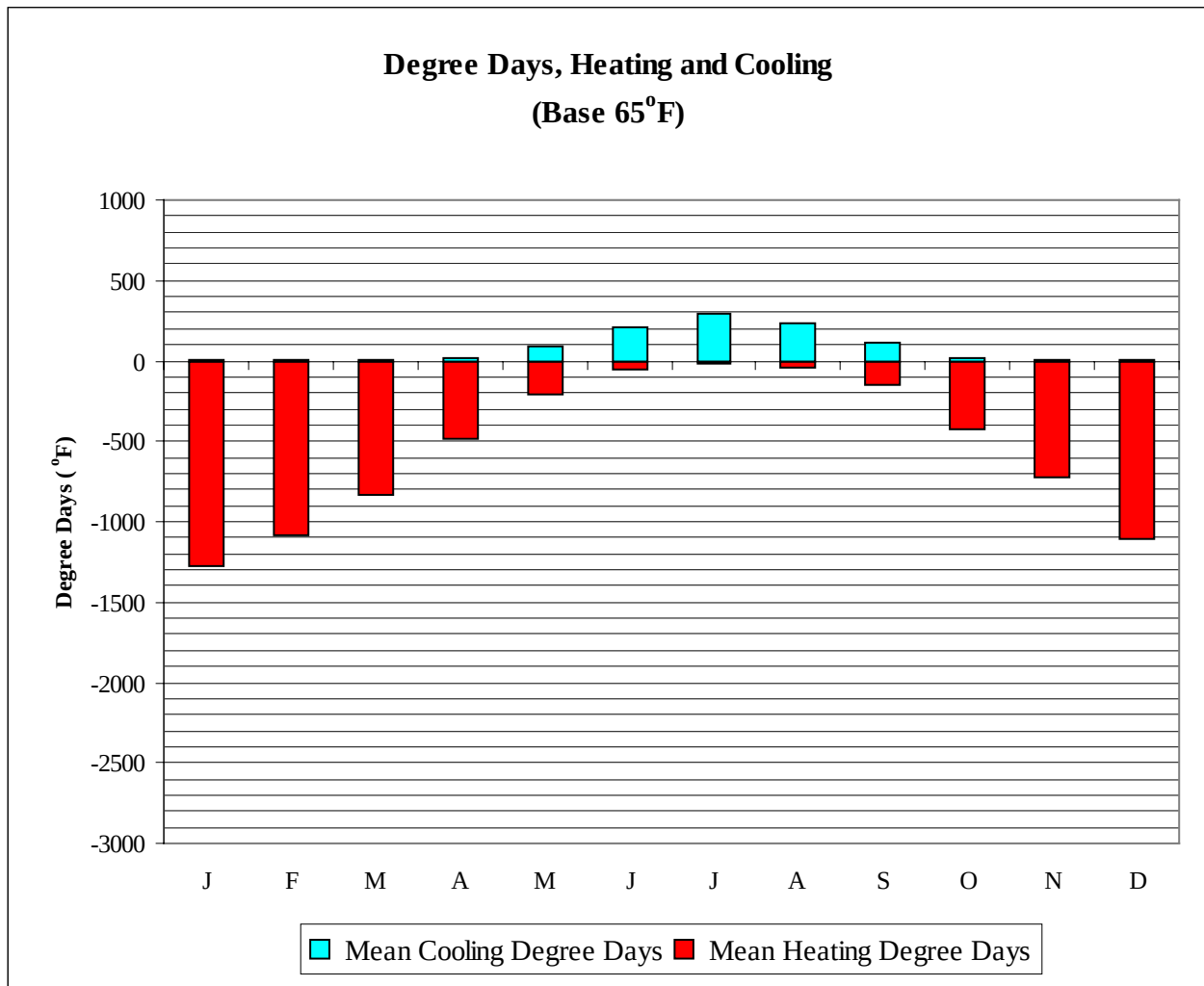


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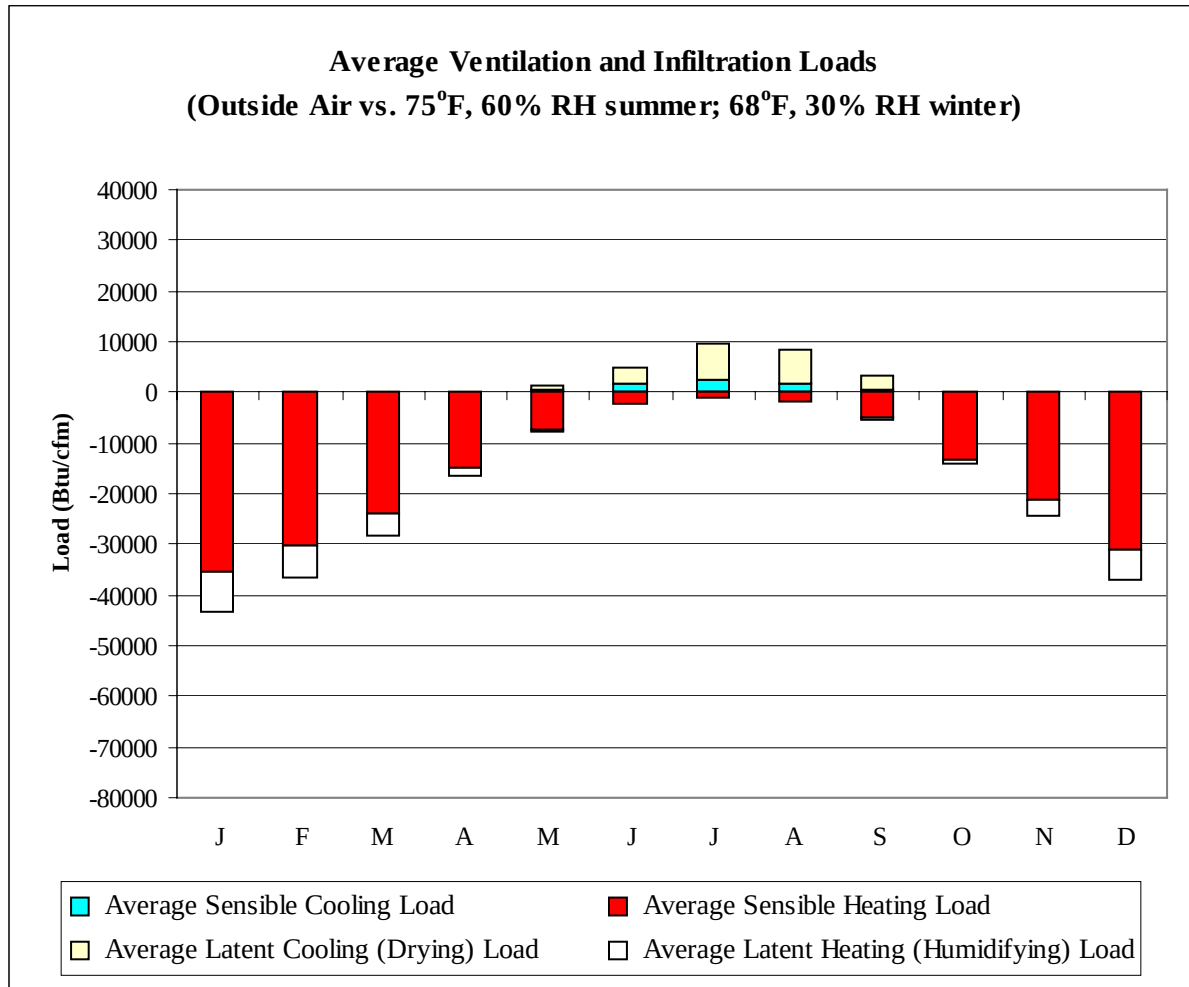
WMO No. 725330

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	50.0	48.5	30.9	18.1	-4.0	51.1	49.0	21.4	12.5
14-Jan	54.0	52.1	29.0	15.4	-8.0	57.4	55.2	20.4	11.2
21-Jan	53.0	50.4	30.3	16.1	-16.0	51.1	51.6	22.3	12.5
28-Jan	49.0	45.0	32.3	18.1	-4.0	41.3	44.9	23.3	12.7
4-Feb	52.0	47.1	30.9	17.4	-6.0	47.6	46.9	21.6	12.2
11-Feb	50.0	44.9	28.9	12.9	-10.0	42.7	47.1	18.7	10.2
18-Feb	54.0	49.3	34.3	19.3	-2.0	51.1	51.4	24.1	13.8
25-Feb	59.0	50.2	40.9	26.1	-1.0	55.3	56.5	30.4	18.3
4-Mar	66.0	58.8	39.8	23.5	4.0	67.2	62.7	27.1	15.4
11-Mar	69.0	57.9	44.0	27.0	8.0	73.5	62.9	32.3	18.1
18-Mar	71.0	61.5	46.6	29.6	14.0	79.8	62.7	33.8	19.7
25-Mar	69.0	56.1	48.4	30.6	16.0	63.7	61.3	34.5	19.7
1-Apr	74.0	60.9	52.7	35.8	24.0	77.7	66.9	40.9	24.6
8-Apr	72.0	60.2	53.5	34.8	21.0	77.0	67.8	40.4	23.6
15-Apr	76.0	60.8	57.0	37.2	25.0	80.5	67.6	43.9	25.2
22-Apr	83.0	64.8	62.6	42.6	29.0	83.3	69.1	51.0	31.1
29-Apr	83.0	64.8	64.6	43.6	32.0	86.8	71.9	52.8	32.3
6-May	80.0	62.2	64.9	44.5	35.0	86.8	70.0	52.0	32.3
13-May	85.0	68.9	69.7	47.9	35.0	95.2	79.6	59.8	37.7
20-May	87.0	67.8	72.3	51.3	39.0	106.4	72.0	69.5	46.4
27-May	87.0	66.7	73.4	53.5	43.0	114.8	74.8	73.9	50.9
3-Jun	89.0	68.9	75.9	56.1	44.0	122.5	79.8	80.7	55.8
10-Jun	89.0	68.4	78.3	58.1	48.0	122.5	79.3	84.4	57.7
17-Jun	92.0	72.7	80.9	60.1	49.0	126.0	84.6	90.0	63.0
24-Jun	93.0	73.2	82.0	61.7	50.0	126.0	85.0	94.7	66.4
1-Jul	91.0	72.9	82.2	61.6	52.0	130.9	81.3	94.5	68.0
8-Jul	95.0	71.1	84.6	63.4	53.0	139.3	84.2	102.7	74.8
15-Jul	95.0	75.5	84.7	64.7	54.0	140.7	85.3	107.6	77.0
22-Jul	94.0	76.7	84.7	65.1	56.0	139.3	86.2	106.6	80.3
29-Jul	91.0	75.0	83.6	63.4	56.0	139.3	79.9	103.3	77.2
5-Aug	91.0	76.0	82.6	62.9	54.0	140.0	82.9	104.6	77.9
12-Aug	90.0	77.0	81.5	62.4	52.0	140.0	83.4	104.3	77.5
19-Aug	91.0	76.8	81.9	61.7	52.0	144.9	85.0	103.5	76.9
26-Aug	90.0	75.4	81.3	60.9	52.0	138.6	84.9	100.4	72.5
2-Sep	91.0	75.0	80.8	61.0	48.0	133.7	84.7	101.5	73.5
9-Sep	90.0	72.6	79.0	57.8	46.0	127.4	82.2	90.9	64.8
16-Sep	87.0	71.2	75.6	55.8	44.0	114.1	77.0	85.8	59.7
23-Sep	86.0	74.7	71.9	51.7	38.0	119.0	78.4	75.5	51.5
30-Sep	83.0	68.0	70.7	48.3	38.0	113.4	77.9	66.9	45.7
7-Oct	81.0	63.9	67.0	45.4	33.0	99.4	69.7	60.5	39.0
14-Oct	79.0	64.4	64.1	43.8	32.0	89.6	66.9	55.4	36.3
21-Oct	76.0	64.1	61.0	41.8	29.0	93.1	72.1	53.1	33.1
28-Oct	74.0	61.3	59.8	40.0	27.0	88.2	65.3	50.3	32.6
4-Nov	72.0	59.6	57.4	39.9	22.0	82.6	65.0	49.8	31.6
11-Nov	68.0	58.9	50.9	34.9	20.0	76.3	64.1	41.6	26.0
18-Nov	64.0	58.3	48.5	32.3	18.0	79.1	61.2	37.8	22.5
25-Nov	62.0	57.1	46.1	32.2	20.0	77.0	61.4	37.4	22.9
2-Dec	63.0	59.1	42.3	29.5	11.0	74.9	62.2	34.4	20.1
9-Dec	59.0	54.4	38.7	25.6	2.0	71.4	58.1	30.0	17.9
16-Dec	58.0	54.1	37.1	24.9	0.0	59.5	59.5	28.4	17.1
23-Dec	54.0	51.2	33.3	20.0	-7.0	55.3	52.4	24.8	14.4
31-Dec	61.0	59.1	32.6	19.8	-9.0	70.0	60.9	25.0	14.4



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1271
FEB	0	1081
MAR	4	836
APR	21	488
MAY	86	214
JUN	210	54
JUL	297	21
AUG	236	38
SEP	113	147
OCT	22	422
NOV	2	727
DEC	0	1107
ANN	992	6406



	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	-35346	0	-7800
FEB	0	-30208	0	-6492
MAR	3	-24017	11	-4293
APR	92	-14763	27	-1853
MAY	506	-7221	833	-359
JUN	1531	-2240	3223	-11
JUL	2463	-1039	7117	0
AUG	1634	-1700	6846	0
SEP	621	-5182	2502	-47
OCT	58	-13107	161	-820
NOV	0	-21159	4	-3029
DEC	0	-31105	2	-6019
ANN	6908	-187087	20726	-30723

Average Annual Solar Radiation – Nearest Available Site

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

City: FORT WAYNE
 State: IN
 WBAN No: 14827
 Lat(N): 41
 Long(W): 85.2
 Elev(ft): 827

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.562
 Vert Gap: 0.325

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	560	810	1100	1460	1790	1970	1920	1700	1350	950	580	450	1220
	Std Dev	39	78	68	130	140	108	101	94	89	75	48	41	34
	Minimum	460	690	1000	1210	1460	1740	1680	1520	1170	790	460	360	1170
	Maximum	640	1050	1220	1710	2110	2270	2110	1930	1550	1140	660	520	1320
	Diffuse	330	460	610	730	840	890	860	770	620	460	350	300	600
Clear Day	Global	830	1190	1670	2160	2490	2610	2520	2230	1790	1290	880	720	1700
NORTH	Global	190	270	350	440	550	620	590	480	380	280	200	170	380
	Diffuse	190	270	350	430	500	540	530	460	380	280	200	170	360
Clear Day	Global	190	250	330	430	580	680	620	480	360	270	190	160	380
EAST	Global	360	520	670	870	1020	1090	1080	970	800	610	370	290	720
	Diffuse	230	330	420	520	610	650	640	570	470	350	240	200	440
Clear Day	Global	630	840	1090	1310	1420	1450	1420	1310	1120	880	640	560	1060
SOUTH	Global	820	970	950	930	860	820	840	960	1070	1060	770	650	890
	Diffuse	340	430	500	540	580	600	590	580	530	440	330	290	480
Clear Day	Global	1780	1890	1790	1450	1130	980	1030	1280	1610	1800	1750	1690	1510
WEST	Global	360	510	660	830	990	1080	1070	990	820	600	370	290	720
	Diffuse	230	330	430	520	610	660	640	580	480	350	240	200	440
Clear Day	Global	630	840	1090	1310	1420	1450	1420	1310	1120	880	640	560	1060

Average Annual Solar Heat and Illumination – Nearest Available Site

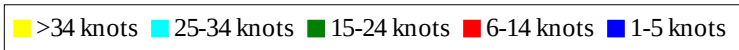
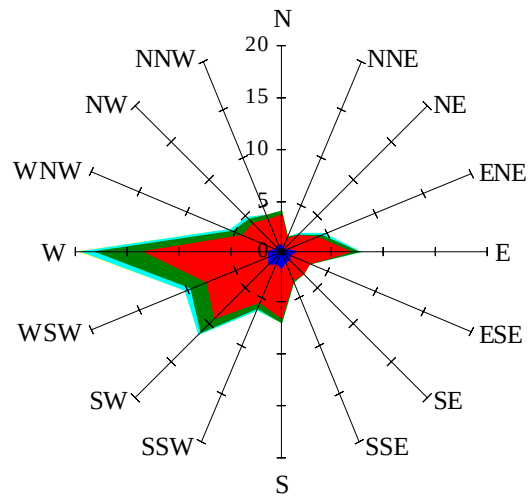
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	360	550	770	1050	1290	1430	1390	1220	960	660	390	290	870
NORTH	Unshaded	130	190	240	300	360	410	390	330	260	200	140	120	260
	Shaded	110	160	210	260	320	360	340	290	230	170	120	98	220
EAST	Unshaded	250	360	470	620	720	770	770	690	570	430	260	200	510
	Shaded	220	310	400	530	610	650	640	590	490	370	230	170	430
SOUTH	Unshaded	620	710	670	610	540	500	520	620	730	770	580	490	610
	Shaded	590	650	520	400	350	360	360	390	520	670	550	470	480
WEST	Unshaded	250	360	460	590	700	770	760	700	590	420	250	200	510
	Shaded	220	310	400	500	590	650	640	600	510	370	220	170	430

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	24	61	78	69	37	54	87	100	90	60
	M.Cloudy	14	36	47	42	23	36	61	72	66	42
NORTH	M.Clear	8	13	15	14	10	15	17	17	17	15
	M.Cloudy	6	14	17	15	9	14	18	19	19	14
EAST	M.Clear	60	65	23	14	10	78	66	22	17	15
	M.Cloudy	17	29	19	15	9	40	44	22	19	14
SOUTH	M.Clear	25	64	82	72	38	13	38	50	41	17
	M.Cloudy	10	29	39	34	17	13	29	38	33	16
WEST	M.Clear	8	13	15	54	68	13	17	17	59	77
	M.Cloudy	6	14	17	28	26	13	18	19	43	45
M.Clear	(% hrs)	26	24	21	22	22	40	37	31	30	35
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	34	69	83	71	38	4	30	43	32	6
	M.Cloudy	21	43	54	47	25	3	17	24	19	4
NORTH	M.Clear	10	15	16	15	11	2	9	10	9	3
	M.Cloudy	9	15	17	16	10	2	8	10	8	2
EAST	M.Clear	67	62	19	15	11	15	41	13	9	3
	M.Cloudy	25	33	19	16	10	3	14	10	8	2
SOUTH	M.Clear	27	62	76	63	31	11	64	84	67	17
	M.Cloudy	14	33	44	37	17	3	19	25	20	5
WEST	M.Clear	10	15	16	58	68	2	9	10	40	21
	M.Cloudy	9	15	17	35	30	2	8	10	15	5
M.Clear	(% hrs)	41	40	34	36	41	19	18	17	19	20

Wind Summary - December, January, and February

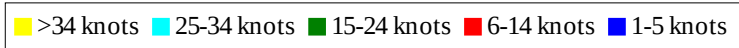
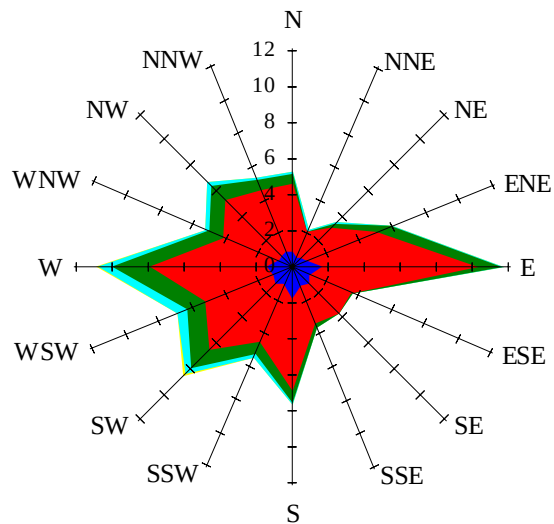
Labels of Percent Frequency on North Axis



Percent Calm = 3.85

Wind Summary - March, April, and May

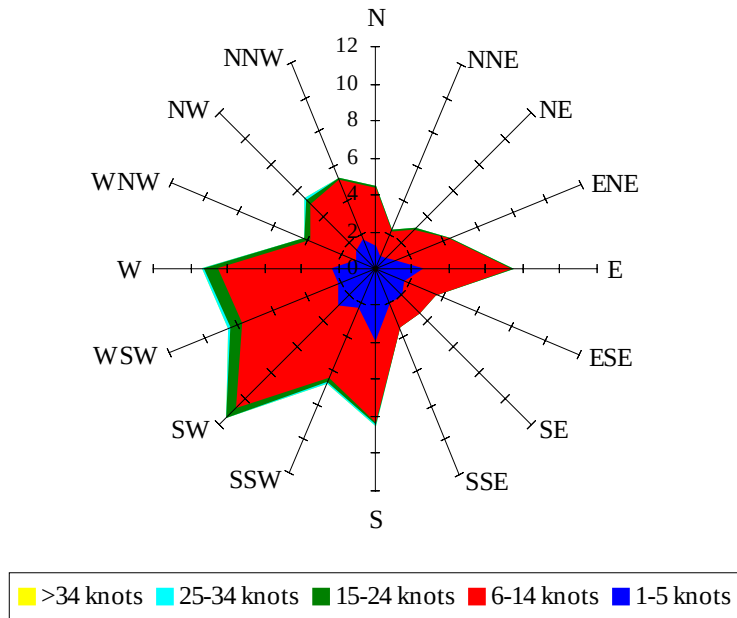
Labels of Percent Frequency on North Axis



Percent Calm = 5.35

Wind Summary - June, July, and August

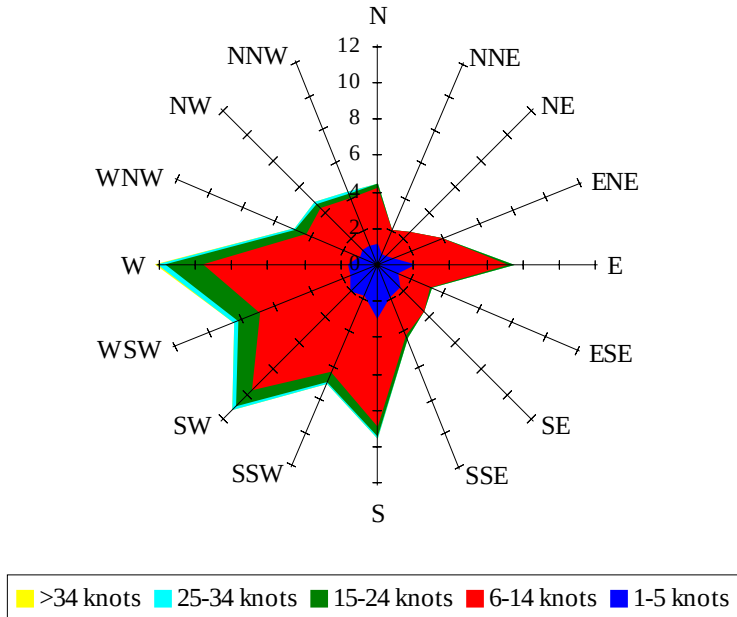
Labels of Percent Frequency on North Axis



Percent Calm = 9.36

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 7.25