

AUSTIN/MUELLER TX

Latitude = 30.30 N

Longitude = 97.70 W

Period of Record = 1973 to 1996

WMO No. 722540

Elevation = 620 feet

Average Pressure = 29.33 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	101	74	87	9.1	S
0.4% Occurrence	99	75	92	9.3	S
1.0% Occurrence	97	75	96	9.5	S
2.0% Occurrence	95	75	99	9.6	S
Mean Daily Range	19	-	-	-	-
97.5% Occurrence	35	32	22	9.7	N
99.0% Occurrence	30	27	16	10.5	N
99.6% Occurrence	25	23	12	11.3	N
Median of Extreme Lows	20	18	9	13.5	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	81	91	142	9.7	S
0.4% Occurrence	78	88	127	9.7	S
1.0% Occurrence	78	88	127	9.7	S
2.0% Occurrence	77	87	123	9.4	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	153	86	1.00	10.4	SSW
0.4% Occurrence	139	81	0.90	7.9	S
1.0% Occurrence	134	80	0.88	8.0	S
2.0% Occurrence	132	82	0.85	10.5	S
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		313	2030	2086	3798

Other Site Data

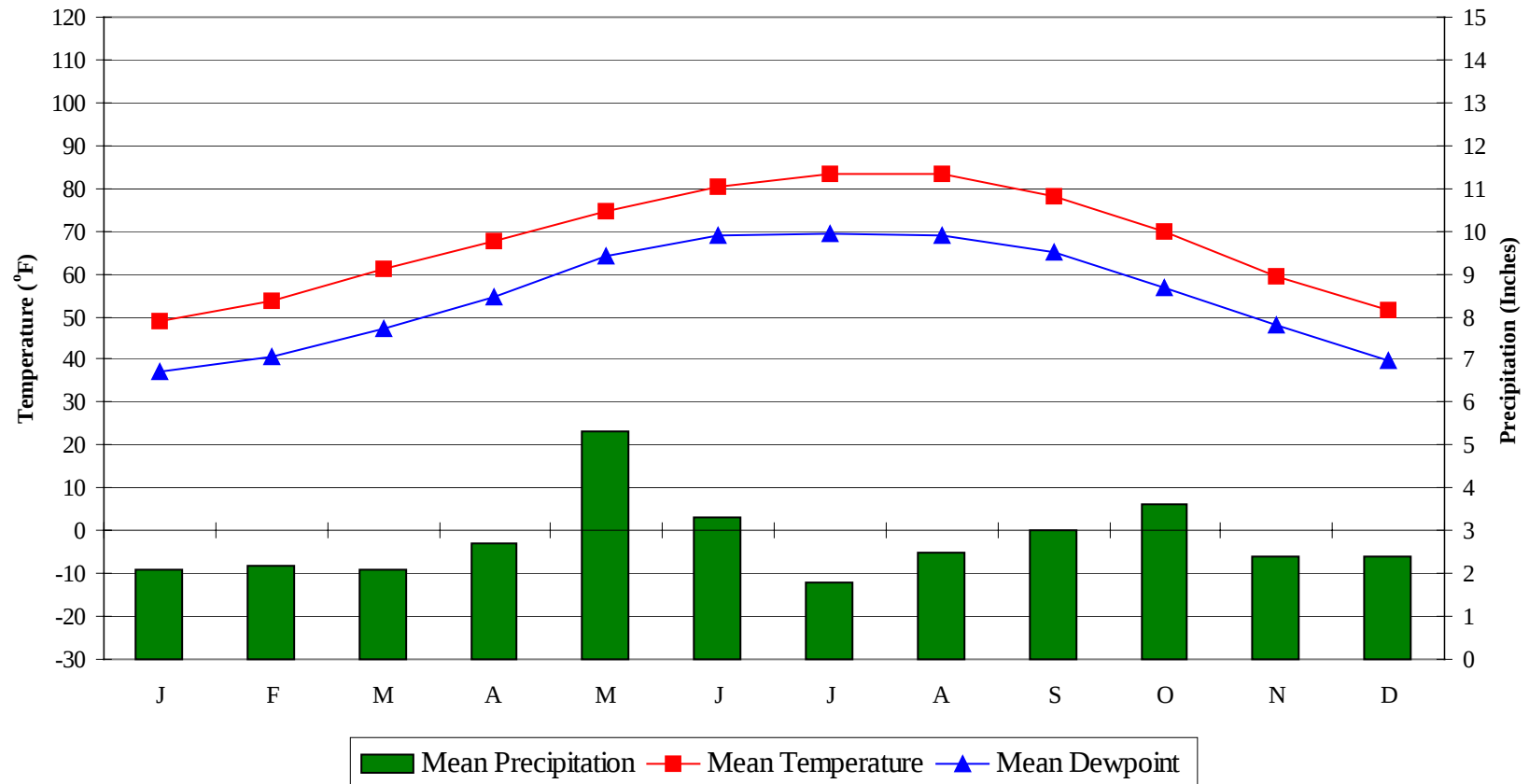
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
10	4.3	90	6.4 + 2.4
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
70.2	4	2	10

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

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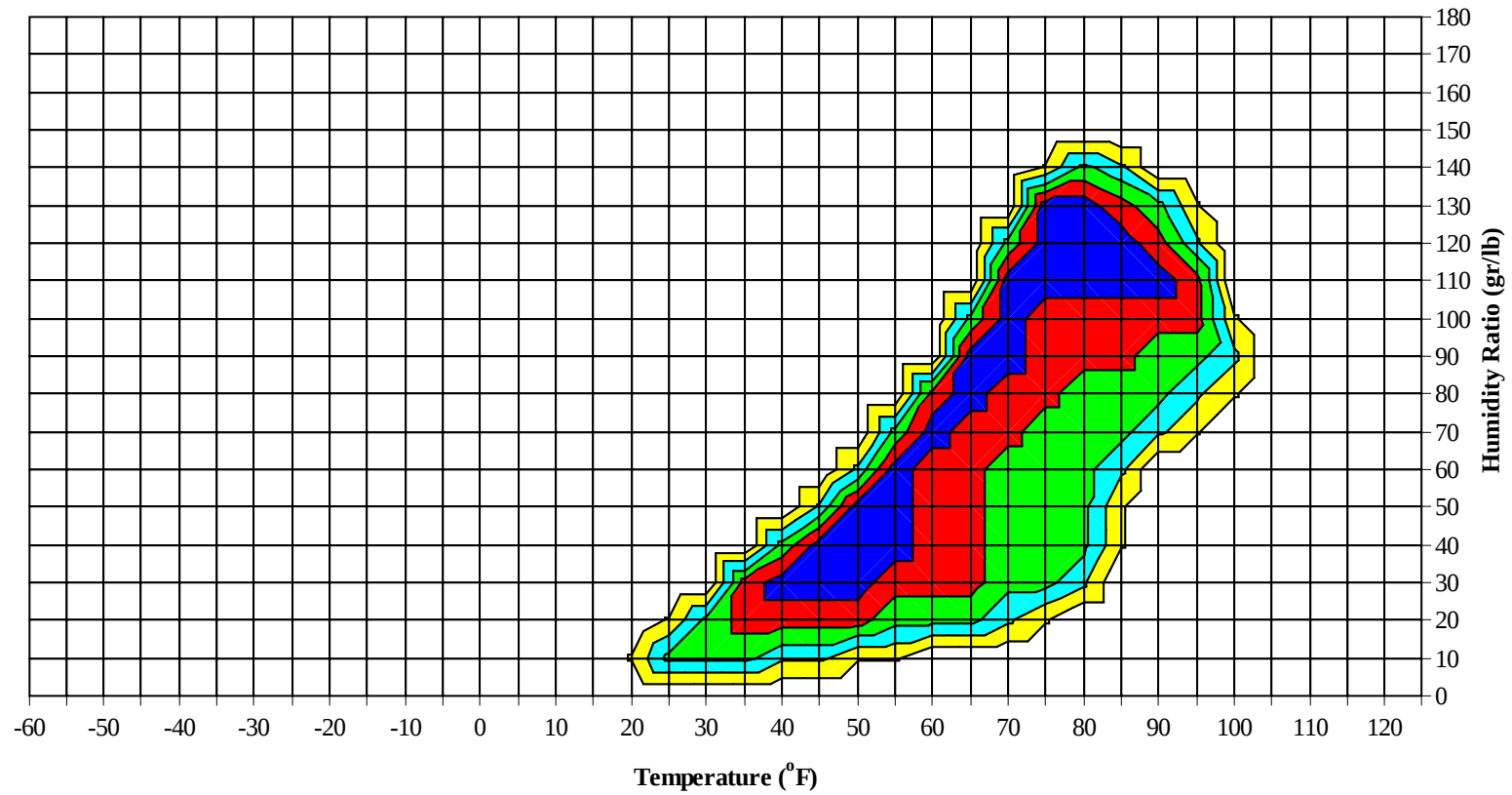
Average Annual Climate



AUSTIN/MUELLER TX

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Long Term Psychrometric Summary

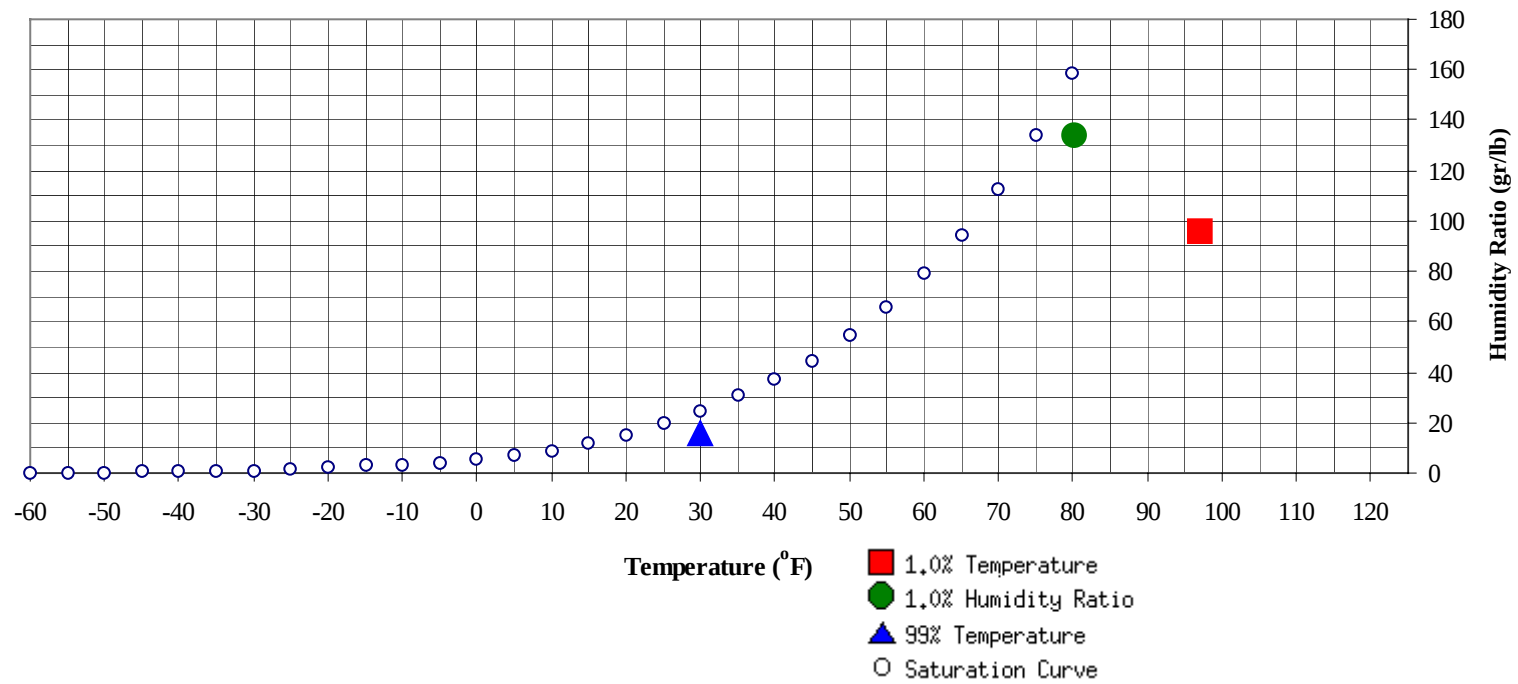


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

AUSTIN/MUELLER TX

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Psychrometric Summary of Peak Design Values



99% Dry Bulb	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
	30	15.8	9.6		134.4	80.2	76.4	75	40.3

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	97	95.7	74.8	38.4

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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							0	0	0	64.1		0	0	0	61.0
90 / 94							1	0	1	63.1		1	0	1	63.2
85 / 89							1	1	2	61.4		3	1	4	64.1
80 / 84		1	0	1	60.4		4	2	6	61.2		14	7	21	64.8
75 / 79		7	2	9	61.8	0	13	6	19	61.1		33	19	52	63.6
70 / 74	1	18	9	28	60.8	1	24	16	41	59.7	12	46	41	99	62.6
65 / 69	9	24	19	52	58.9	13	31	29	73	58.8	33	46	50	129	59.8
60 / 64	11	28	27	66	54.6	21	29	34	84	55.3	37	39	46	122	55.5
55 / 59	17	30	33	80	50.6	27	29	33	89	51.0	46	27	38	111	51.3
50 / 54	32	36	42	110	46.4	35	27	36	98	46.5	47	17	23	87	46.9
45 / 49	43	33	38	113	42.4	41	24	27	92	42.6	34	10	13	57	42.7
40 / 44	46	28	34	107	37.9	35	16	19	70	38.1	23	6	8	37	38.5
35 / 39	47	24	25	96	33.9	29	12	11	52	34.1	10	3	3	16	33.4
30 / 34	24	10	14	48	29.3	12	6	7	25	29.2	3	1	1	5	28.0
25 / 29	13	7	6	26	24.2	7	3	3	13	25.1	2	0	0	2	24.0
20 / 24	6	1	1	8	19.6	3	2	1	6	20.0	0	0		0	18.7
15 / 19	1	0	0	1	14.9	1	0	0	1	16.0	0			0	17.0
10 / 14	0	0		0	9.9	0			0	13.0					
5 / 9															

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 = 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												1	1	2	75.7
95 / 99		0		0	70.0		1	0	1	73.7		9	5	14	76.3
90 / 94		2	1	3	69.0		13	5	18	74.3		57	25	82	75.6
85 / 89		13	5	18	68.0		43	21	64	73.2	0	79	45	124	74.5
80 / 84		40	19	59	67.5	1	72	44	117	71.1	14	60	68	142	73.5
75 / 79	2	56	39	97	65.4	33	62	69	164	70.2	111	23	64	199	72.8
70 / 74	38	54	62	154	65.0	86	35	63	184	67.8	86	10	27	123	69.5
65 / 69	57	33	50	140	61.5	72	15	32	119	63.6	24	1	5	30	64.6
60 / 64	53	21	35	108	56.6	39	5	12	56	58.8	4	0	0	4	58.9
55 / 59	46	11	17	74	51.8	13	1	2	16	53.5	0			0	55.7
50 / 54	28	6	9	43	47.4	5	0	0	5	49.3					
45 / 49	13	2	3	18	42.5	0			0	45.0					
40 / 44	4	0	1	5	38.1										
35 / 39	1		0	1	33.1										
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 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	74.5					
100 / 104		5	2	7	73.6	6	1	7	74.4		1	0	1	73.9	
95 / 99		41	22	63	74.6	50	23	73	74.7		11	3	14	74.2	
90 / 94		83	43	125	74.9	0	79	39	118	74.6		46	16	62	73.8
85 / 89	0	66	52	117	74.6	0	61	52	113	74.2	0	63	31	93	73.0
80 / 84	34	40	73	147	74.1	34	38	76	148	73.8	8	56	57	121	72.2
75 / 79	159	10	46	215	73.3	155	11	46	213	73.0	82	33	70	185	71.5
70 / 74	53	3	11	67	70.7	55	3	11	69	70.3	85	18	39	142	68.1
65 / 69	2	0	0	2	66.6	4	0	0	4	63.5	30	7	14	51	61.4
60 / 64			0	0	61.0	0			0	60.8	21	3	8	32	56.7
55 / 59											11	1	3	15	52.5
50 / 54											3	0	0	3	48.4
45 / 49											0			0	43.0
40 / 44															
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 = 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		1	0	1	68.5										
90 / 94		10	2	12	72.1										
85 / 89		31	9	40	70.7			0	2	68.6				0	60.8
80 / 84	1	51	26	78	68.9		15	3	18	68.5		2	0	2	63.2
75 / 79	19	52	48	119	67.7	1	32	15	48	66.8	0	11	3	14	64.6
70 / 74	42	44	58	144	65.0	22	38	34	94	65.3	2	24	13	39	62.6
65 / 69	54	28	49	131	61.5	24	35	36	95	60.7	18	29	27	74	60.8
60 / 64	52	18	32	102	56.8	30	34	40	104	56.0	16	34	31	81	55.2
55 / 59	43	7	15	65	52.3	35	33	37	105	51.4	23	35	37	95	50.9
50 / 54	24	3	7	34	48.2	44	25	35	104	47.1	34	36	43	113	46.5
45 / 49	10	2	2	14	43.8	36	13	24	73	42.5	41	31	38	110	42.3
40 / 44	2	0	1	3	38.8	27	7	10	44	38.3	48	22	28	98	38.3
35 / 39	1	0	0	1	34.1	13	3	5	21	33.7	34	14	15	63	33.9
30 / 34	0			0	30.3	6	1	2	9	29.6	16	5	8	29	28.5
25 / 29						2	0	0	2	24.9	8	2	3	13	23.8
20 / 24						0			0	19.5	3	1	2	6	18.9
15 / 19											3	1	1	5	14.1
10 / 14											1	0	0	1	9.9
5 / 9											0			0	4.3

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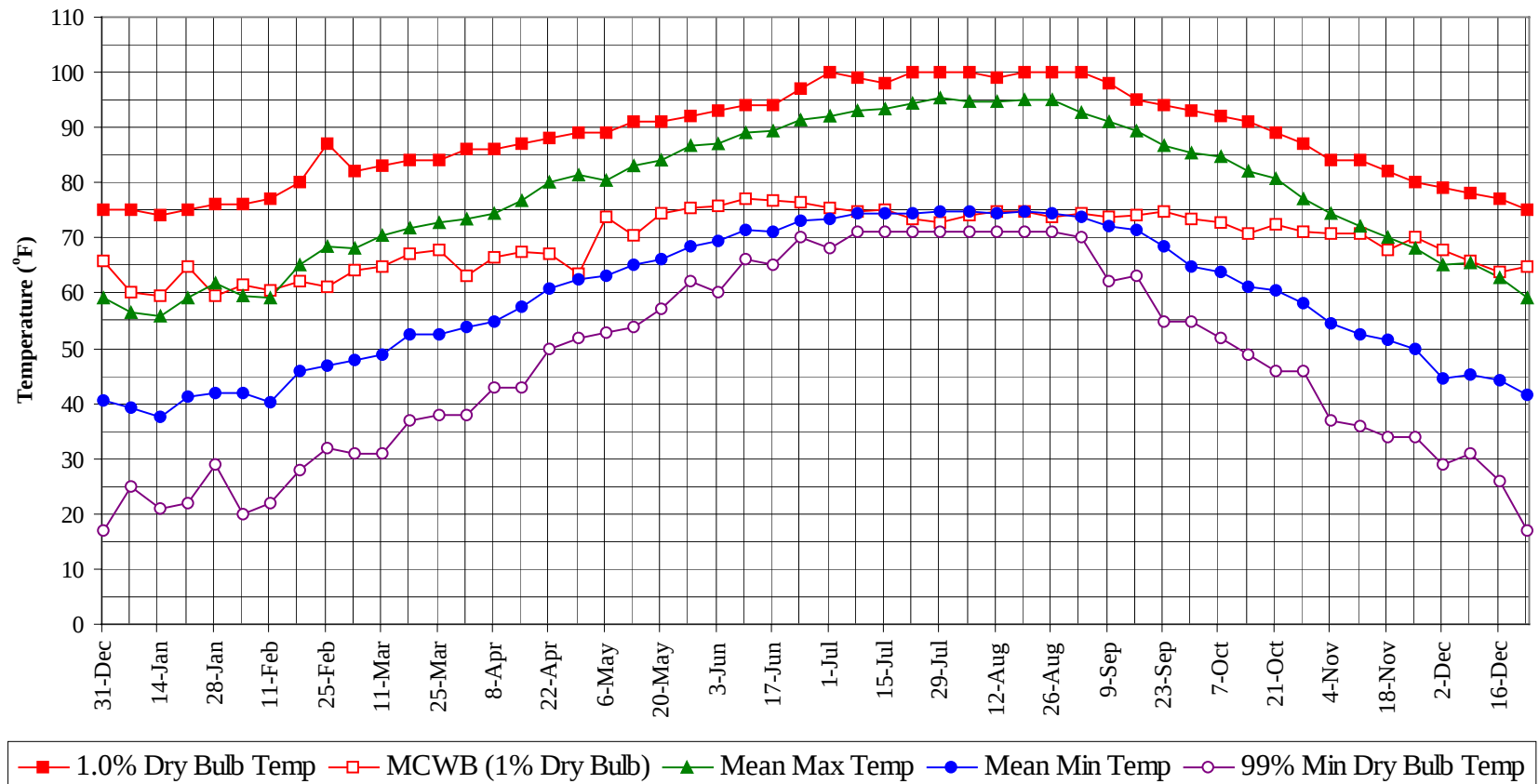
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

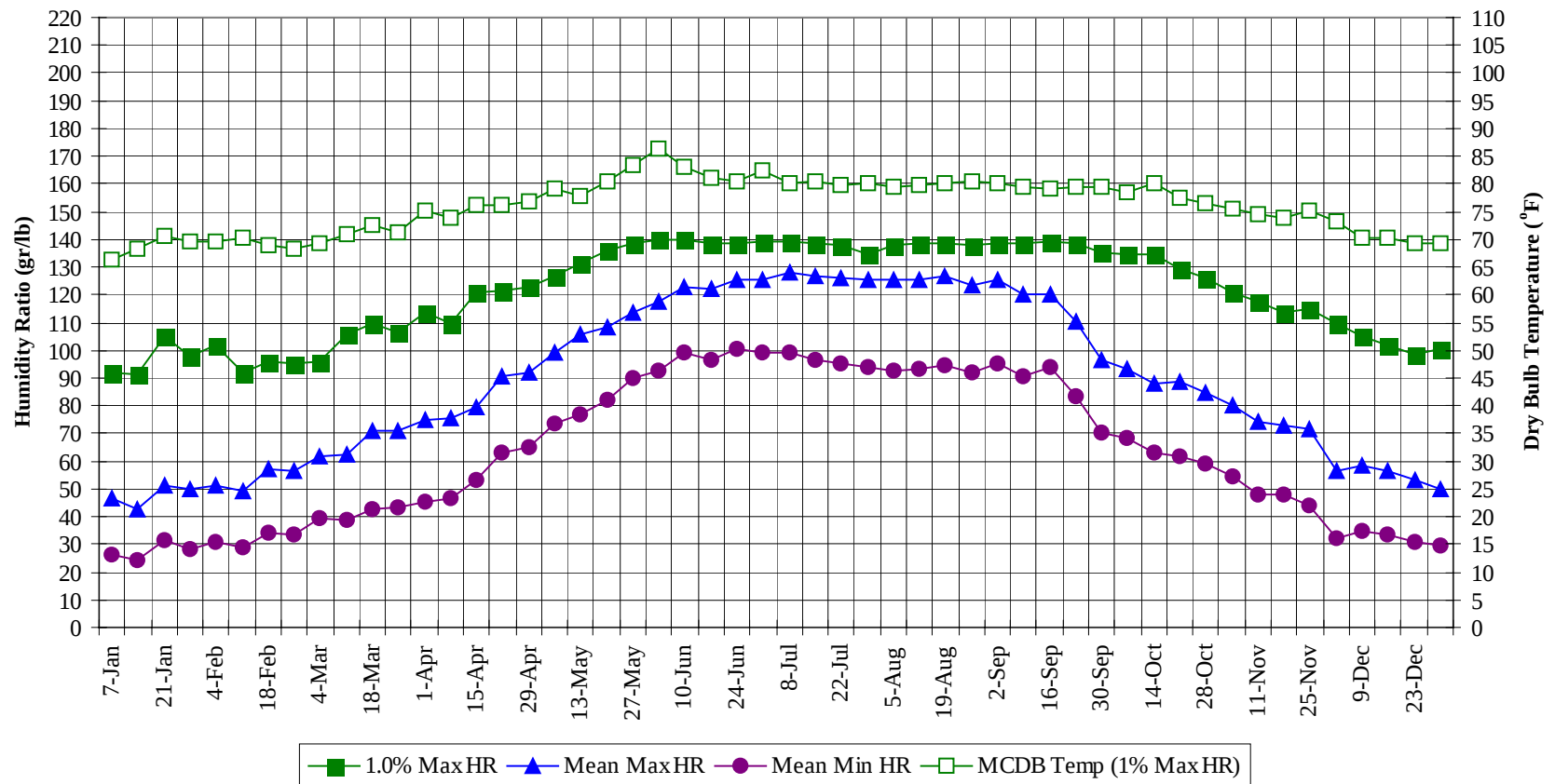
Annual Totals						
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)	
	01 To 08	09 To 16	17 To 00			
105 / 109	0			0	74.5	
100 / 104	13			4	17	74.2
95 / 99	115			54	168	74.7
90 / 94	0	289	131	420	74.6	
85 / 89	1	361	215	577	73.4	
80 / 84	92	393	374	858	71.9	
75 / 79	562	343	421	1326	70.5	
70 / 74	481	319	383	1182	66.4	
65 / 69	336	251	310	897	61.1	
60 / 64	284	213	265	762	56.1	
55 / 59	261	176	216	653	51.3	
50 / 54	252	154	194	600	46.8	
45 / 49	219	117	144	480	42.5	
40 / 44	186	80	101	367	38.2	
35 / 39	136	56	59	251	33.9	
30 / 34	63	24	32	119	29.0	
25 / 29	31	12	12	55	24.3	
20 / 24	12	4	4	20	19.5	
15 / 19	4	1	2	7	14.6	
10 / 14	1	0	0	1	10.1	
5 / 9	0			0	4.3	

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

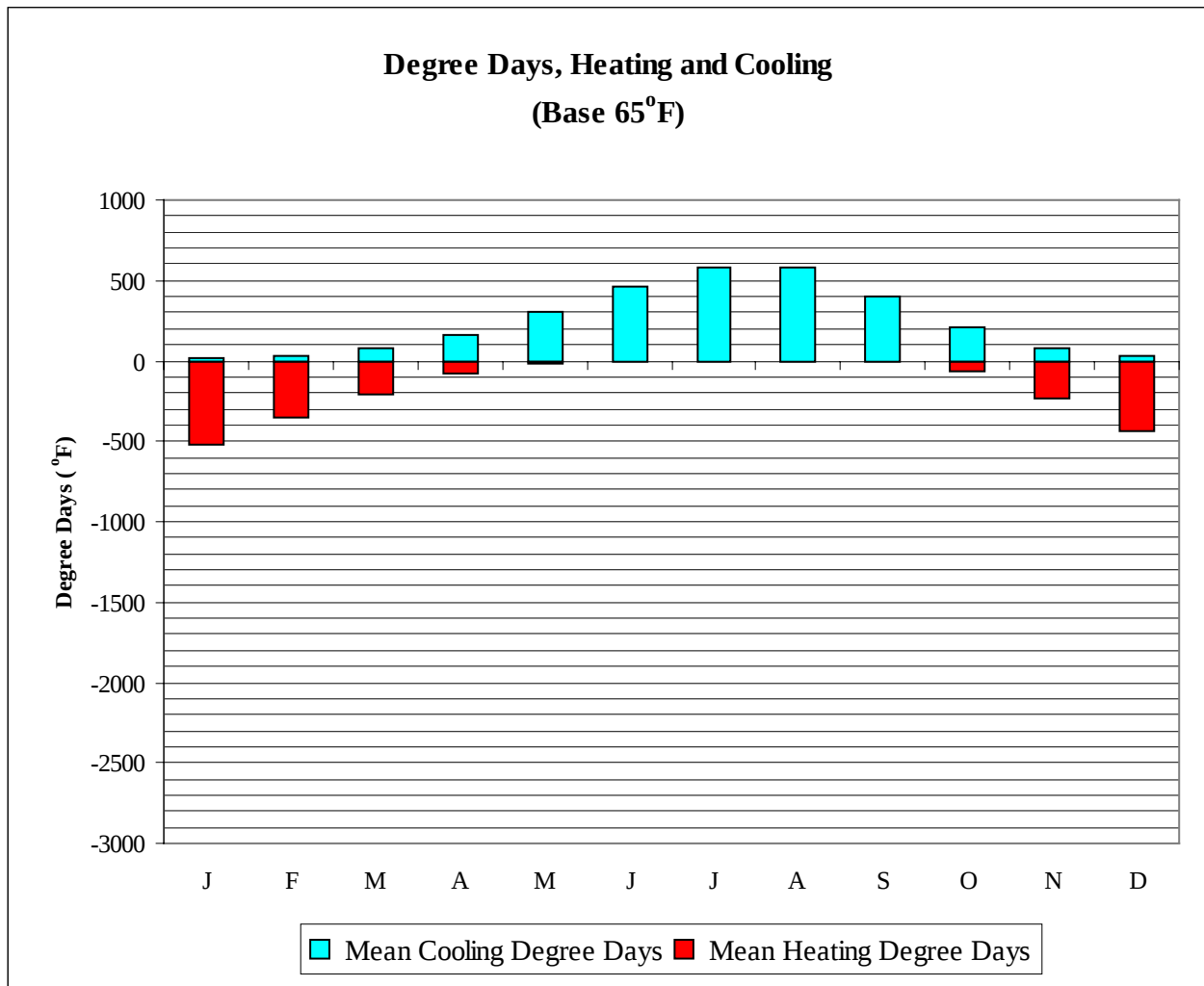


AUSTIN/MUELLER TX

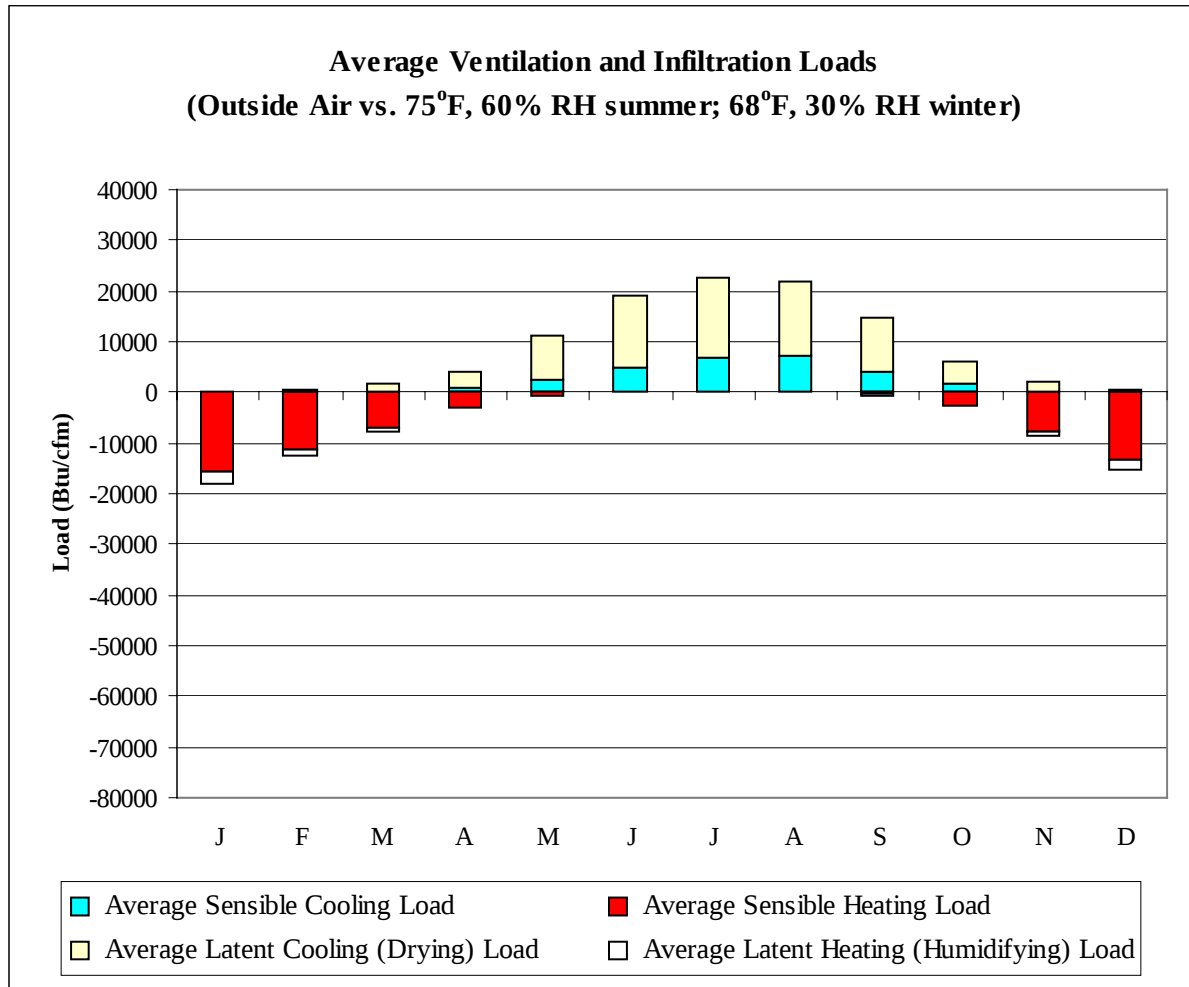
WMO No. 722540

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	75.0	60.0	56.4	39.2	25.0	91.7	66.3	46.9	26.5
14-Jan	74.0	59.5	55.7	37.5	21.0	91.0	68.1	42.6	24.4
21-Jan	75.0	64.7	59.2	41.2	22.0	105.0	70.7	51.1	31.5
28-Jan	76.0	59.4	61.8	41.8	29.0	98.0	69.8	49.8	28.5
4-Feb	76.0	61.6	59.5	41.8	20.0	101.5	69.7	51.1	31.1
11-Feb	77.0	60.4	59.2	40.2	22.0	91.7	70.3	49.1	29.2
18-Feb	80.0	62.0	65.3	45.7	28.0	95.9	68.9	57.0	34.0
25-Feb	87.0	61.3	68.5	47.0	32.0	95.2	68.2	56.8	33.6
4-Mar	82.0	64.1	68.0	47.9	31.0	95.9	69.3	61.8	39.1
11-Mar	83.0	64.8	70.3	48.8	31.0	105.7	71.0	62.7	38.7
18-Mar	84.0	67.0	71.9	52.7	37.0	109.9	72.4	70.7	42.7
25-Mar	84.0	67.9	72.7	52.6	38.0	106.4	71.2	70.6	43.4
1-Apr	86.0	63.3	73.5	53.7	38.0	113.4	75.2	75.0	45.1
8-Apr	86.0	66.4	74.5	54.8	43.0	109.9	74.0	75.6	46.6
15-Apr	87.0	67.4	76.7	57.5	43.0	121.1	76.3	79.2	53.3
22-Apr	88.0	67.1	79.9	60.8	50.0	121.8	76.1	90.7	63.0
29-Apr	89.0	63.6	81.6	62.3	52.0	122.5	76.9	92.1	64.9
6-May	89.0	73.9	80.4	63.3	53.0	126.7	79.2	98.9	73.4
13-May	91.0	70.3	83.0	65.1	54.0	131.6	77.9	105.4	77.1
20-May	91.0	74.4	84.1	66.3	57.0	135.8	80.6	108.6	81.9
27-May	92.0	75.3	86.6	68.6	62.0	138.6	83.4	113.3	89.9
3-Jun	93.0	75.9	87.1	69.3	60.0	140.0	86.3	117.9	92.3
10-Jun	94.0	77.2	89.1	71.6	66.0	140.0	83.0	122.5	99.0
17-Jun	94.0	76.6	89.4	71.2	65.0	138.6	81.0	122.0	96.6
24-Jun	97.0	76.5	91.5	73.3	70.0	138.6	80.3	125.6	100.5
1-Jul	100.0	75.5	92.0	73.3	68.0	139.3	82.4	125.2	98.9
8-Jul	99.0	74.7	93.1	74.3	71.0	139.3	80.2	127.9	99.0
15-Jul	98.0	75.1	93.2	74.4	71.0	138.6	80.5	126.8	96.8
22-Jul	100.0	73.6	94.4	74.5	71.0	137.9	80.0	125.8	95.4
29-Jul	100.0	72.7	95.4	74.6	71.0	134.4	80.2	125.6	93.8
5-Aug	100.0	74.2	94.6	74.6	71.0	137.9	79.6	125.2	92.5
12-Aug	99.0	74.8	94.7	74.3	71.0	138.6	79.7	125.6	93.1
19-Aug	100.0	74.6	95.1	74.8	71.0	138.6	80.3	126.8	94.7
26-Aug	100.0	73.9	95.2	74.4	71.0	137.9	80.4	123.5	91.7
2-Sep	100.0	74.3	92.7	73.8	70.0	138.6	80.1	125.2	95.5
9-Sep	98.0	73.7	91.1	72.1	62.0	138.6	79.4	120.1	90.7
16-Sep	95.0	74.1	89.4	71.4	63.0	139.3	79.2	120.0	93.6
23-Sep	94.0	74.9	86.9	68.4	55.0	138.6	79.5	110.1	83.1
30-Sep	93.0	73.4	85.5	64.7	55.0	135.1	79.5	96.4	70.2
7-Oct	92.0	72.6	84.8	63.8	52.0	134.4	78.6	93.5	68.3
14-Oct	91.0	70.8	82.2	61.3	49.0	134.4	80.1	88.0	63.1
21-Oct	89.0	72.3	80.7	60.3	46.0	129.5	77.4	88.6	61.9
28-Oct	87.0	71.0	77.0	58.3	46.0	126.0	76.6	84.5	59.2
4-Nov	84.0	70.8	74.3	54.5	37.0	121.1	75.6	80.1	54.5
11-Nov	84.0	70.7	72.1	52.5	36.0	117.6	74.4	74.1	47.7
18-Nov	82.0	67.7	70.2	51.4	34.0	113.4	74.0	73.1	48.1
25-Nov	80.0	70.1	68.1	49.8	34.0	114.8	75.1	71.4	44.3
2-Dec	79.0	67.7	65.2	44.4	29.0	109.9	73.1	56.8	32.4
9-Dec	78.0	65.7	65.6	45.1	31.0	105.0	70.4	58.7	34.6
16-Dec	77.0	63.9	62.9	44.2	26.0	101.5	70.2	56.7	33.3
23-Dec	75.0	64.9	59.3	41.4	17.0	98.7	69.4	53.1	31.0
31-Dec	75.0	65.9	59.0	40.7	17.0	100.8	69.4	49.6	29.6



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	16	517
FEB	34	358
MAR	83	204
APR	166	76
MAY	310	13
JUN	464	0
JUL	575	0
AUG	576	0
SEP	400	10
OCT	215	66
NOV	72	239
DEC	25	436
ANN	2935	1919



	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	16	-15604	266	-2280
FEB	125	-11124	277	-1521
MAR	314	-6886	1323	-776
APR	908	-2922	3162	-213
MAY	2367	-704	8819	-6
JUN	4893	-48	14291	0
JUL	7038	0	15649	0
AUG	7072	-3	14575	0
SEP	3924	-460	10972	-2
OCT	1519	-2601	4525	-91
NOV	237	-7813	1835	-775
DEC	36	-13388	568	-1878
ANN	28449	-61553	76262	-7542

Average Annual Solar Radiation – Nearest Available Site

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

City: AUSTIN
 State: TX
 WBAN No: 13958
 Lat(N): 30.3
 Long(W): 97.7
 Elev(ft): 620

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.889
 Vert Gap: 0.65

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	940	1200	1500	1720	1870	2090	2150	2010	1660	1380	1050	880	1540
	Std Dev	77	97	116	161	149	130	137	111	118	109	103	68	32
	Minimum	800	980	1240	1480	1450	1810	1770	1740	1410	1110	800	770	1500
	Maximum	1110	1400	1740	2100	2110	2310	2380	2230	1930	1550	1250	1080	1610
	Diffuse	410	490	630	740	830	810	750	700	640	500	420	380	610
Clear Day	Global	1320	1630	2030	2380	2560	2620	2570	2400	2100	1720	1370	1210	1990
NORTH	Global	270	320	400	460	560	640	610	500	410	340	280	250	420
	Diffuse	270	320	400	450	500	520	510	460	410	340	280	250	390
Clear Day	Global	240	290	360	440	590	710	650	490	370	310	250	230	410
EAST	Global	570	690	810	870	900	1010	1100	1070	910	780	620	540	820
	Diffuse	320	380	470	540	580	610	610	580	510	420	340	300	470
Clear Day	Global	880	1050	1220	1340	1390	1390	1370	1340	1230	1070	900	820	1170
SOUTH	Global	1200	1210	1080	850	660	590	640	820	1040	1260	1260	1200	980
	Diffuse	420	460	520	530	520	510	510	530	540	500	440	400	490
Clear Day	Global	2050	1930	1600	1090	740	610	660	930	1360	1770	1980	2040	1390
WEST	Global	610	760	920	1000	1060	1170	1160	1100	970	870	680	580	910
	Diffuse	330	390	490	560	610	630	620	590	520	430	350	300	480
Clear Day	Global	880	1050	1220	1340	1390	1390	1370	1340	1230	1070	900	820	1170

Average Annual Solar Heat and Illumination – Nearest Available Site

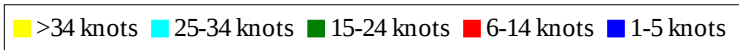
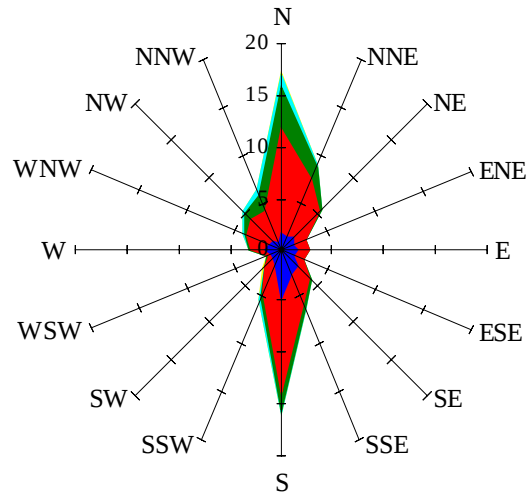
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	650	840	1070	1250	1360	1530	1580	1470	1210	990	730	600	1110
NORTH	Unshaded	180	220	270	320	360	400	390	330	280	240	200	170	280
	Shaded	160	190	240	280	310	350	340	300	250	210	170	150	250
EAST	Unshaded	390	480	570	610	640	710	780	760	640	550	430	370	580
	Shaded	340	410	480	500	510	570	620	620	530	460	370	320	480
SOUTH	Unshaded	880	860	720	520	400	370	380	480	660	880	920	900	660
	Shaded	830	700	410	320	320	320	320	330	340	620	840	860	520
WEST	Unshaded	430	530	650	720	760	830	830	780	690	620	480	400	640
	Shaded	370	460	540	590	620	680	680	650	580	530	410	350	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	35	77	95	82	43	34	77	102	102	76
	M.Cloudy	19	46	59	52	28	21	56	78	80	59
NORTH	M.Clear	9	14	16	15	10	24	18	17	17	17
	M.Cloudy	8	17	19	17	11	13	18	19	19	18
EAST	M.Clear	76	69	21	15	10	65	77	43	17	17
	M.Cloudy	20	34	21	17	11	26	51	36	19	17
SOUTH	M.Clear	29	61	74	64	35	10	17	29	29	17
	M.Cloudy	12	31	42	37	19	9	17	27	27	17
WEST	M.Clear	9	14	16	63	79	10	17	17	42	75
	M.Cloudy	8	17	19	36	35	9	17	19	36	55
M.Clear	(% hrs)	32	35	39	42	43	26	37	41	45	54
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	20	66	92	91	62	18	53	66	51	15
	M.Cloudy	12	44	68	67	44	10	30	38	30	10
NORTH	M.Clear	7	14	17	17	14	6	11	13	11	5
	M.Cloudy	6	15	19	19	15	5	12	14	12	4
EAST	M.Clear	55	77	42	17	14	52	54	13	11	5
	M.Cloudy	17	42	34	19	15	11	23	14	12	4
SOUTH	M.Clear	12	43	63	62	41	39	82	94	80	35
	M.Cloudy	7	28	45	45	28	10	30	38	32	11
WEST	M.Clear	7	14	17	45	76	6	11	14	55	47
	M.Cloudy	6	15	19	35	46	5	12	15	25	14
M.Clear	(% hrs)	38	40	43	44	49	34	37	39	40	41

Wind Summary - December, January, and February

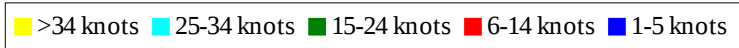
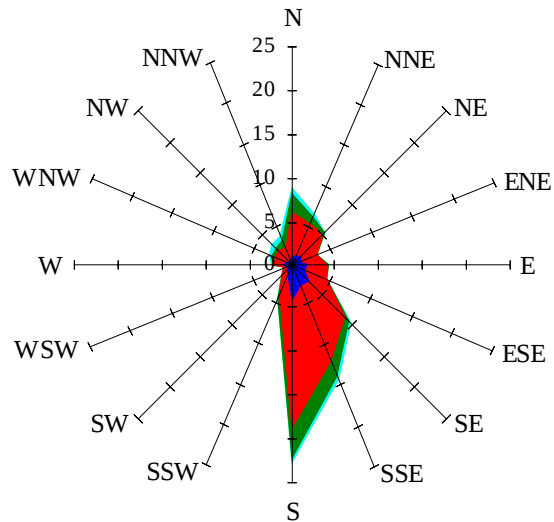
Labels of Percent Frequency on North Axis



Percent Calm = 7.09

Wind Summary - March, April, and May

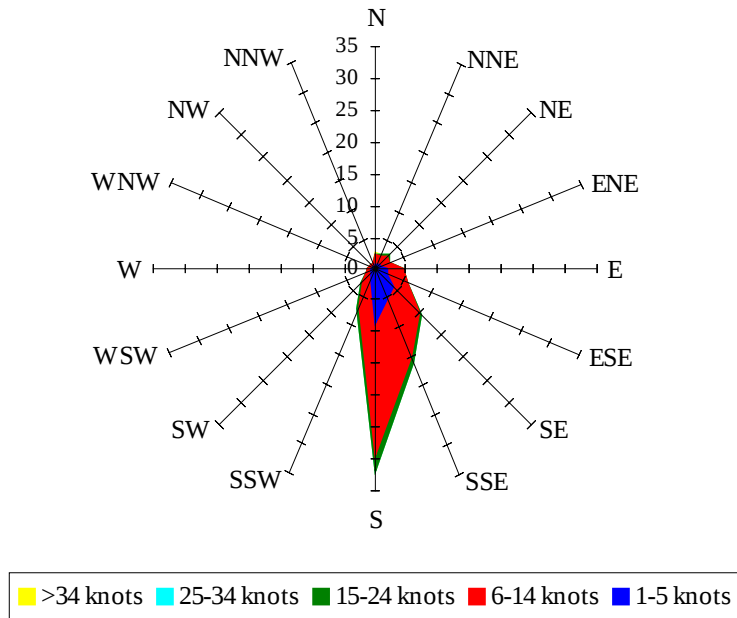
Labels of Percent Frequency on North Axis



Percent Calm = 4.22

Wind Summary - June, July, and August

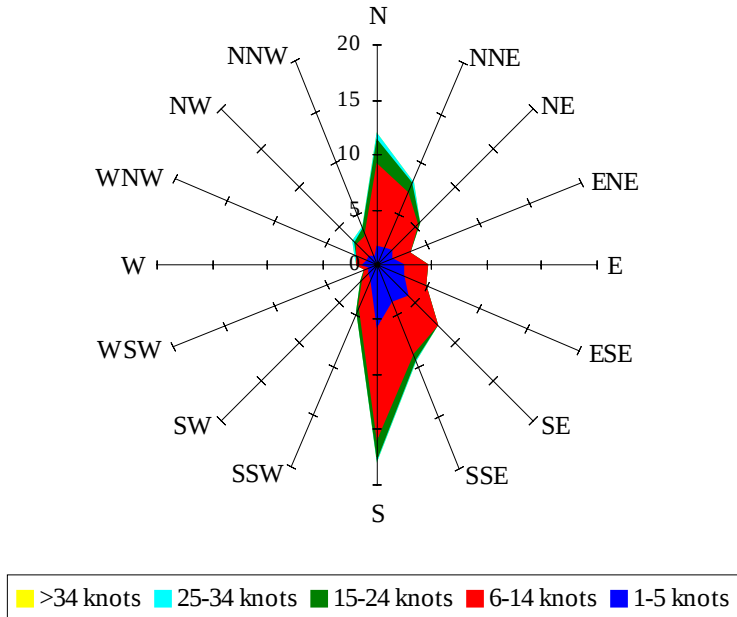
Labels of Percent Frequency on North Axis



Percent Calm = 6.20

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 8.84