

WINSLOW AZ

Latitude = 35.02 N

Longitude = 110.70 W

Period of Record = 1973 to 1996

WMO No. 723740

Elevation = 4882 feet

Average Pressure = 25.12 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	62	37	10.0	W
0.4% Occurrence	97	61	37	10.2	W
1.0% Occurrence	94	60	39	10.7	WSW
2.0% Occurrence	92	60	41	10.6	W
Mean Daily Range	28	-	-	-	-
97.5% Occurrence	19	17	12	4.4	SE
99.0% Occurrence	14	13	10	4.3	WSW
99.6% Occurrence	8	7	7	5.2	SE
Median of Extreme Lows	3	2	6	5.6	SW
	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	69	81	104	8.8	S
0.4% Occurrence	66	82	85	8.6	E
1.0% Occurrence	65	82	80	8.4	W
2.0% Occurrence	64	82	76	8.4	W
	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	107	71	0.60	7.4	ESE
0.4% Occurrence	99	70	0.56	6.7	ESE
1.0% Occurrence	92	70	0.52	6.7	ESE
2.0% Occurrence	85	70	0.49	6.7	ESE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		151	1075	0	19

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	2.5	90	0.0 + 1.2
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 (#)
57.5	N/A	3	104

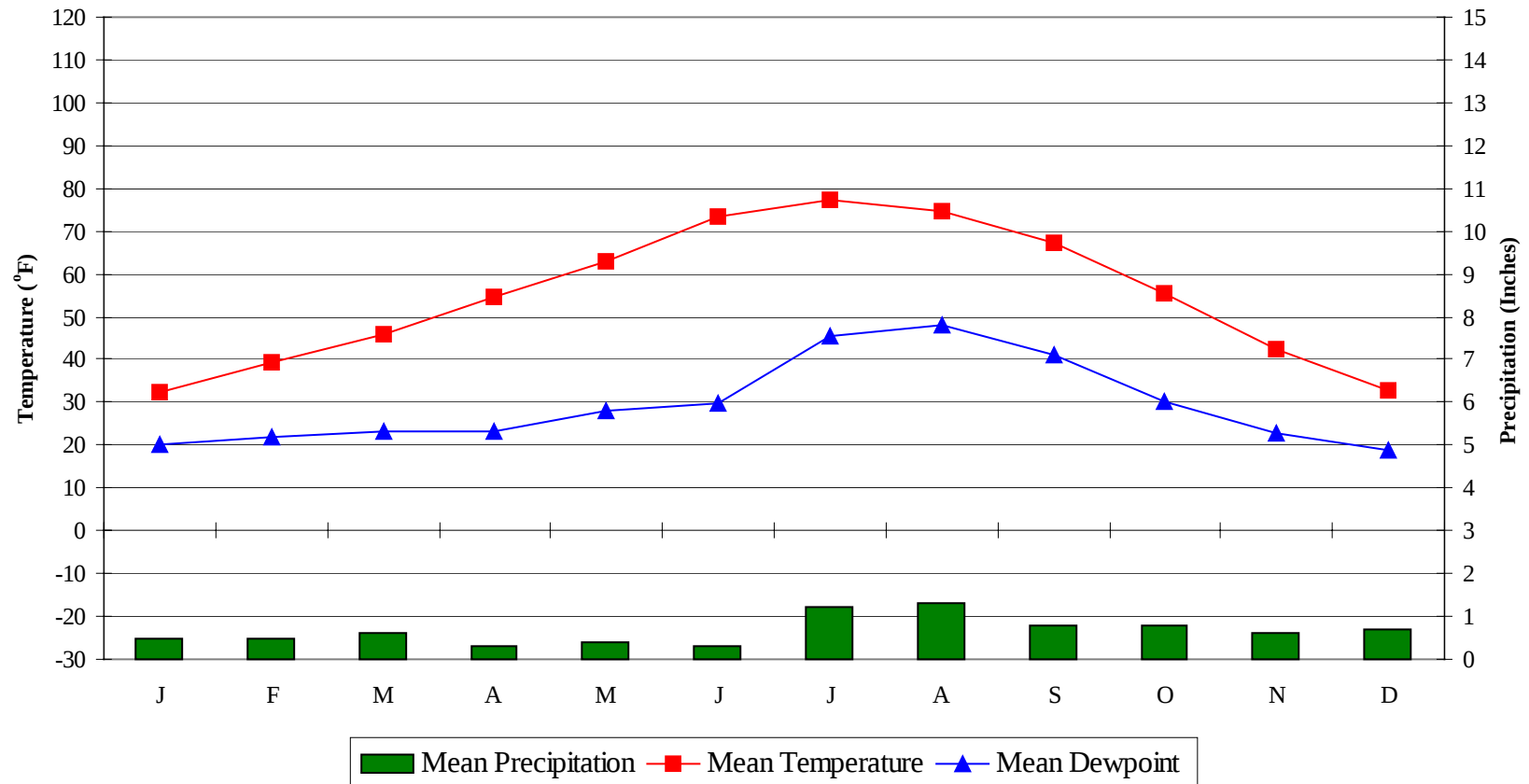
*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

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Average Annual Climate

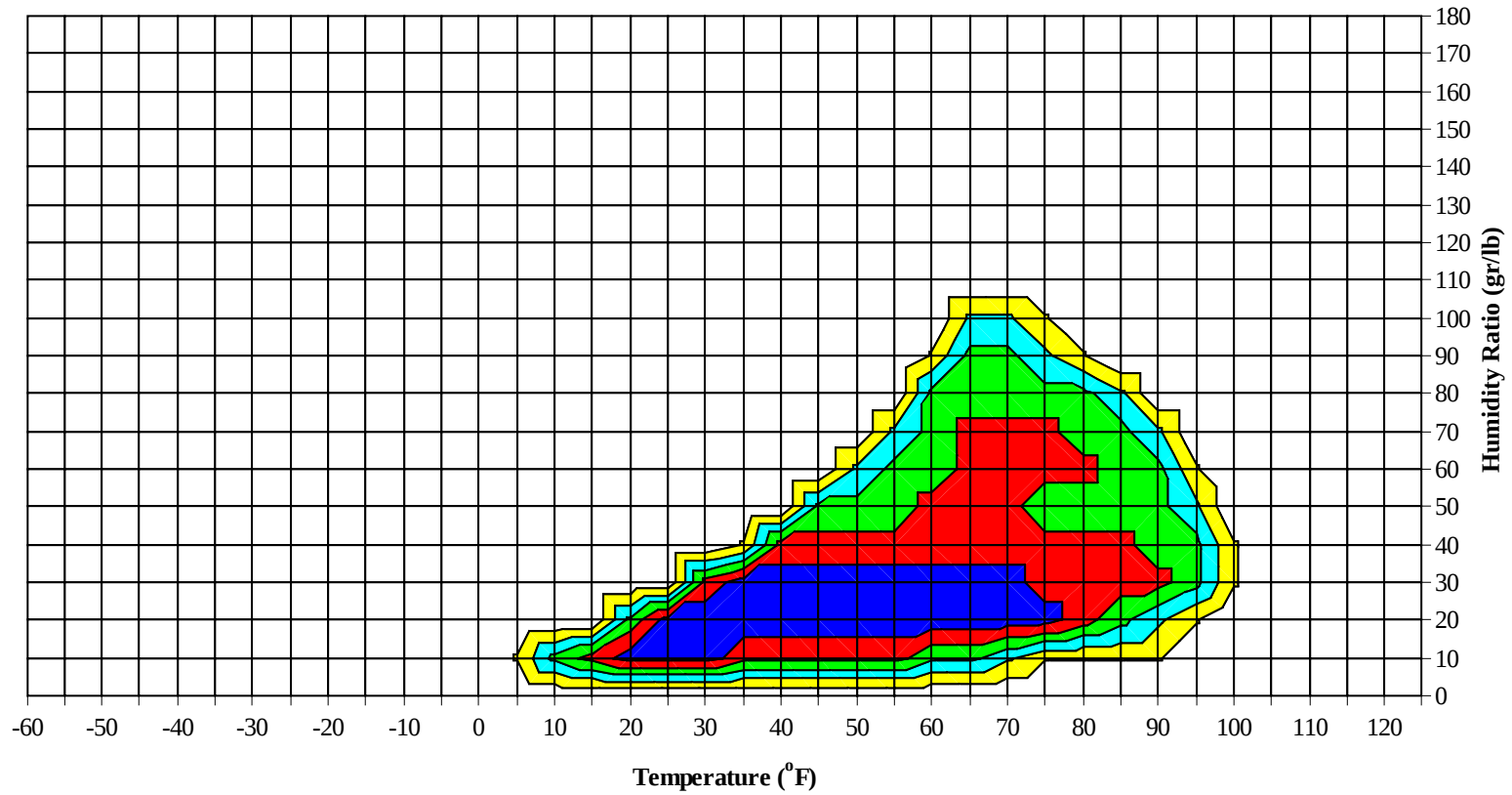


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Long Term Psychrometric Summary



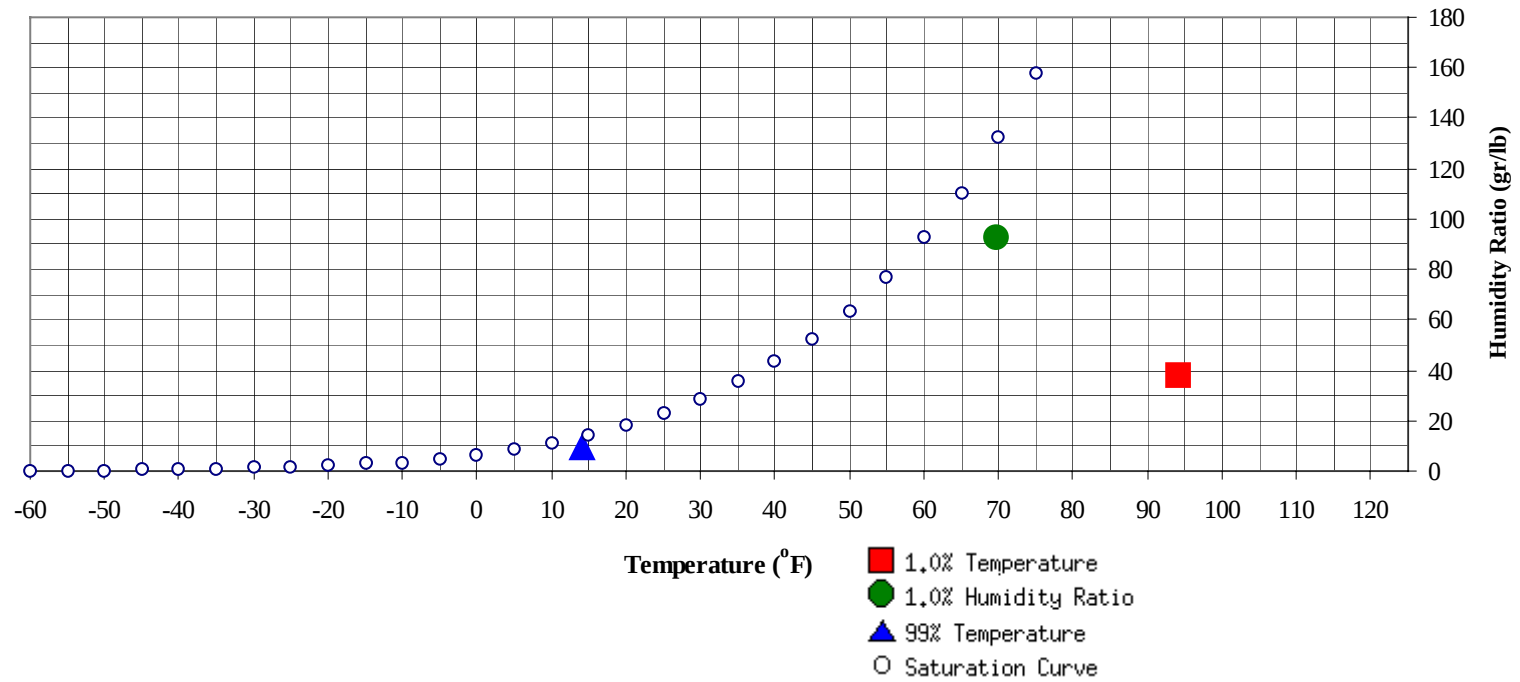
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

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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)
	14	9.6	4.8		92.4	69.8	63.2	60.1	31.2

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	94	37.7	60.1	28.5

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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		
100 / 104															
95 / 99															
90 / 94															
85 / 89															
80 / 84												0	0	0	52.4
75 / 79							0		0	48.8	3	1		4	50.2
70 / 74		0		0	46.0	2	1		3	47.6	12	4		16	48.1
65 / 69		1	0	1	45.2	7	2		9	45.5	23	9		32	45.7
60 / 64		4	1	5	43.7		17	7	24	43.7	36	17		53	43.9
55 / 59		10	2	12	42.7	0	26	12	38	42.1	1	41	28	70	41.9
50 / 54	0	24	8	32	40.3	2	37	21	60	39.9	9	45	41	96	39.8
45 / 49	2	41	19	62	37.6	7	42	35	84	37.6	23	41	45	110	37.6
40 / 44	9	44	32	85	35.1	19	36	43	98	35.1	42	28	46	117	35.1
35 / 39	20	41	50	111	32.0	35	28	44	107	31.8	65	14	34	112	31.9
30 / 34	40	36	55	131	28.4	48	19	36	103	28.1	55	4	17	76	28.1
25 / 29	57	28	45	129	24.4	58	7	16	80	24.2	36	1	5	42	23.8
20 / 24	59	12	20	91	20.0	34	2	6	42	19.7	13		1	14	19.3
15 / 19	35	5	9	49	15.5	15	0	2	17	15.2	3		0	3	15.4
10 / 14	12	2	5	19	11.0	4	0	0	4	10.3	0			0	9.0
5 / 9	7	1	3	11	6.3	1	0		1	6.4					
0 / 4	4	0	1	5	1.8	0	0		0	0.0					
-5 / -1	2	0	0	2	-2.4	0			0	-2.0					
-10 / -6	0			0	-5.5										
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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		
100 / 104												2	1	3	62.0
95 / 99							0		0	57.9		21	7	28	59.8
90 / 94							5	1	6	56.7		44	20	64	57.8
85 / 89		2	1	3	54.8		19	6	25	54.9	0	55	28	83	55.8
80 / 84		9	3	12	52.1		37	16	53	53.1	3	49	35	87	54.2
75 / 79		28	10	38	50.3	1	51	25	77	51.2	8	36	37	81	52.7
70 / 74	0	41	19	60	48.1	2	49	32	83	49.7	22	21	38	81	51.1
65 / 69	1	41	25	67	46.0	9	36	39	84	48.0	42	9	35	85	49.1
60 / 64	5	38	36	79	43.9	26	26	45	97	46.3	53	3	26	81	46.3
55 / 59	16	30	40	86	41.9	49	15	39	103	44.3	54	1	11	66	43.2
50 / 54	34	24	39	96	39.7	64	7	27	98	41.8	38	0	3	41	40.1
45 / 49	49	17	32	98	37.1	51	2	12	65	38.7	15		1	16	37.0
40 / 44	53	8	20	81	34.3	27	1	5	33	35.0	4		0	4	33.5
35 / 39	46	3	12	61	31.3	14	0	1	15	31.6	1			1	30.5
30 / 34	26	1	4	31	27.8	4		0	4	27.6					
25 / 29	9	0	0	9	24.2	0			0	22.4					
20 / 24	1	0	0	1	19.1										
15 / 19	0	0		0	16.0										
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
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-55 / -51															

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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		
100 / 104		3	1	4	62.0		1		1	62.8					
95 / 99		25	9	34	61.2		11	3	14	61.9		0	0	0	62.5
90 / 94	0	55	22	77	60.7		41	14	55	61.4		9	3	12	60.9
85 / 89	0	64	31	94	60.5	0	64	27	91	61.0		31	9	40	58.7
80 / 84	4	52	40	96	60.1	1	57	36	94	60.7		55	22	77	57.3
75 / 79	19	32	56	107	59.3	9	41	52	102	60.0	1	51	30	82	56.5
70 / 74	60	13	55	127	58.2	44	22	61	127	58.9	7	40	43	91	55.5
65 / 69	85	4	28	117	57.1	86	8	41	135	57.6	24	27	50	102	54.0
60 / 64	59	1	7	67	53.8	76	2	12	89	54.8	59	17	45	121	52.4
55 / 59	17	0	1	18	46.9	28	0	1	29	50.3	69	6	27	102	49.4
50 / 54	4			4	40.5	4	0	0	4	45.6	50	2	8	60	44.8
45 / 49	0			0	36.5	0	0	0	0	39.5	21	0	2	23	39.7
40 / 44						0	0	0	0		7	0	0	7	35.1
35 / 39						0	0	0	0		2	0	0	2	31.6
30 / 34						0	0	0	0		0	0	0	0	27.3
25 / 29						0	0	0	0		0	0	0	0	
20 / 24						0	0	0	0		0	0	0	0	
15 / 19						0	0	0	0		0	0	0	0	
10 / 14						0	0	0	0		0	0	0	0	
5 / 9						0	0	0	0		0	0	0	0	
0 / 4						0	0	0	0		0	0	0	0	
-5 / -1						0	0	0	0		0	0	0	0	
-10 / -6						0	0	0	0		0	0	0	0	
-15 / -11						0	0	0	0		0	0	0	0	
-20 / -16						0	0	0	0		0	0	0	0	
-25 / -21						0	0	0	0		0	0	0	0	
-30 / -26						0	0	0	0		0	0	0	0	
-35 / -31						0	0	0	0		0	0	0	0	
-40 / -36						0	0	0	0		0	0	0	0	
-45 / -41						0	0	0	0		0	0	0	0	
-50 / -46						0	1	0	1		0	1	1	2	
-55 / -51						1	1	1	3			0		0	

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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		
100 / 104															
95 / 99															
90 / 94															
85 / 89		3	0	3	55.7										
80 / 84		16	4	20	53.6										
75 / 79		29	9	38	52.1		2	0	2	50.9					
70 / 74		40	15	55	50.9		9	1	10	48.8		0		0	46.0
65 / 69	1	42	23	66	49.2		20	4	24	47.0		3	0	3	47.7
60 / 64	6	40	39	85	47.4	0	27	8	35	45.0		7	1	8	44.7
55 / 59	16	32	52	100	45.3	1	34	18	53	42.8		14	3	17	42.2
50 / 54	46	23	48	117	42.9	8	36	31	75	40.6	1	31	8	40	39.7
45 / 49	66	13	30	109	39.6	17	39	41	98	38.1	3	38	23	64	36.9
40 / 44	54	5	17	76	35.4	29	33	43	106	34.8	11	41	32	84	34.6
35 / 39	33	2	9	44	31.7	47	22	40	109	31.4	20	39	44	103	31.5
30 / 34	17	1	3	21	27.6	57	11	31	98	27.7	38	33	54	125	28.0
25 / 29	7		1	8	22.9	43	4	16	62	23.6	61	21	43	125	24.0
20 / 24	2			2	18.5	24	2	6	32	19.3	50	10	21	81	19.9
15 / 19	0			0	14.8	10	0	1	11	15.1	35	6	11	52	15.3
10 / 14						3	0	0	3	11.0	17	2	5	24	10.9
5 / 9						1	0	0	1	5.4	4	1	2	7	6.2
0 / 4						0			0	1.8	2	1	2	5	1.2
-5 / -1											2	0	1	3	-2.7
-10 / -6											2	0	0	2	-7.3
-15 / -11											0			0	-10.7
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															
-45 / -41															
-50 / -46															
-55 / -51															

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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		
100 / 104		6	1	7	62.1
95 / 99		59	19	78	60.8
90 / 94	0	154	61	214	59.9
85 / 89	1	240	101	342	58.8
80 / 84	7	277	155	439	57.2
75 / 79	37	275	220	533	55.5
70 / 74	135	252	269	656	54.0
65 / 69	247	222	257	726	52.0
60 / 64	283	219	244	746	48.5
55 / 59	252	211	233	696	44.5
50 / 54	263	229	234	726	41.1
45 / 49	259	231	240	730	38.0
40 / 44	258	194	238	690	34.9
35 / 39	283	146	230	660	31.7
30 / 34	284	102	197	583	28.1
25 / 29	267	59	124	450	24.1
20 / 24	180	25	52	257	19.8
15 / 19	98	11	23	132	15.4
10 / 14	36	5	10	51	10.9
5 / 9	13	2	5	20	6.3
0 / 4	7	1	3	11	1.5
-5 / -1	3	0	1	4	-2.6
-10 / -6	2	0	0	2	-7.3
-15 / -11	0	0	0	0	-10.7
-20 / -16	0	0	0	0	
-25 / -21	0	0	0	0	
-30 / -26	0	0	0	0	
-35 / -31	0	0	0	0	
-40 / -36	0	0	0	0	
-45 / -41	0	0	0	0	
-50 / -46	1	1	1	3	
-55 / -51	1	1	1	3	

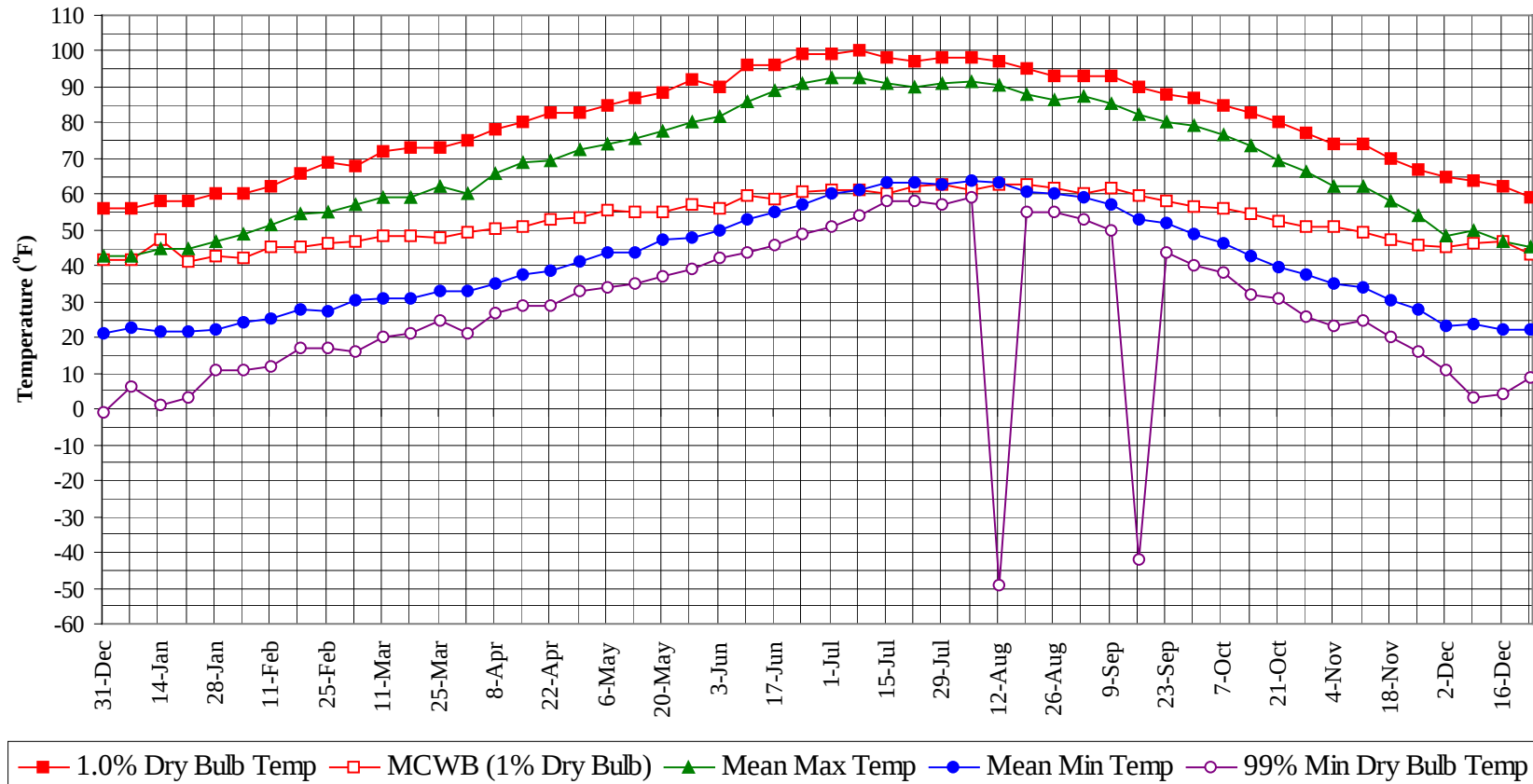
Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

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Annual Summary of Temperatures

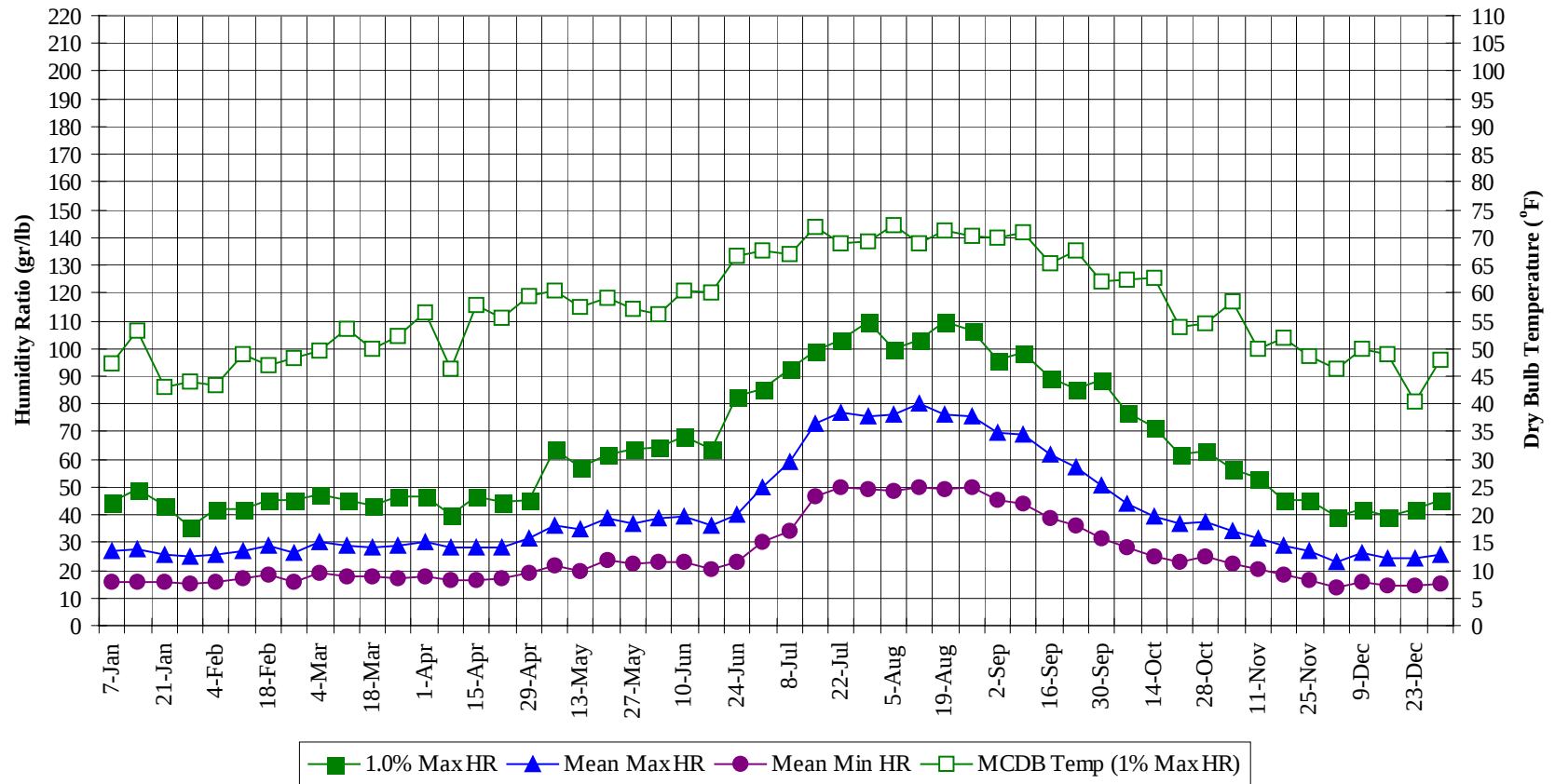


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Long Term Humidity and Dry Bulb Temperature Summary



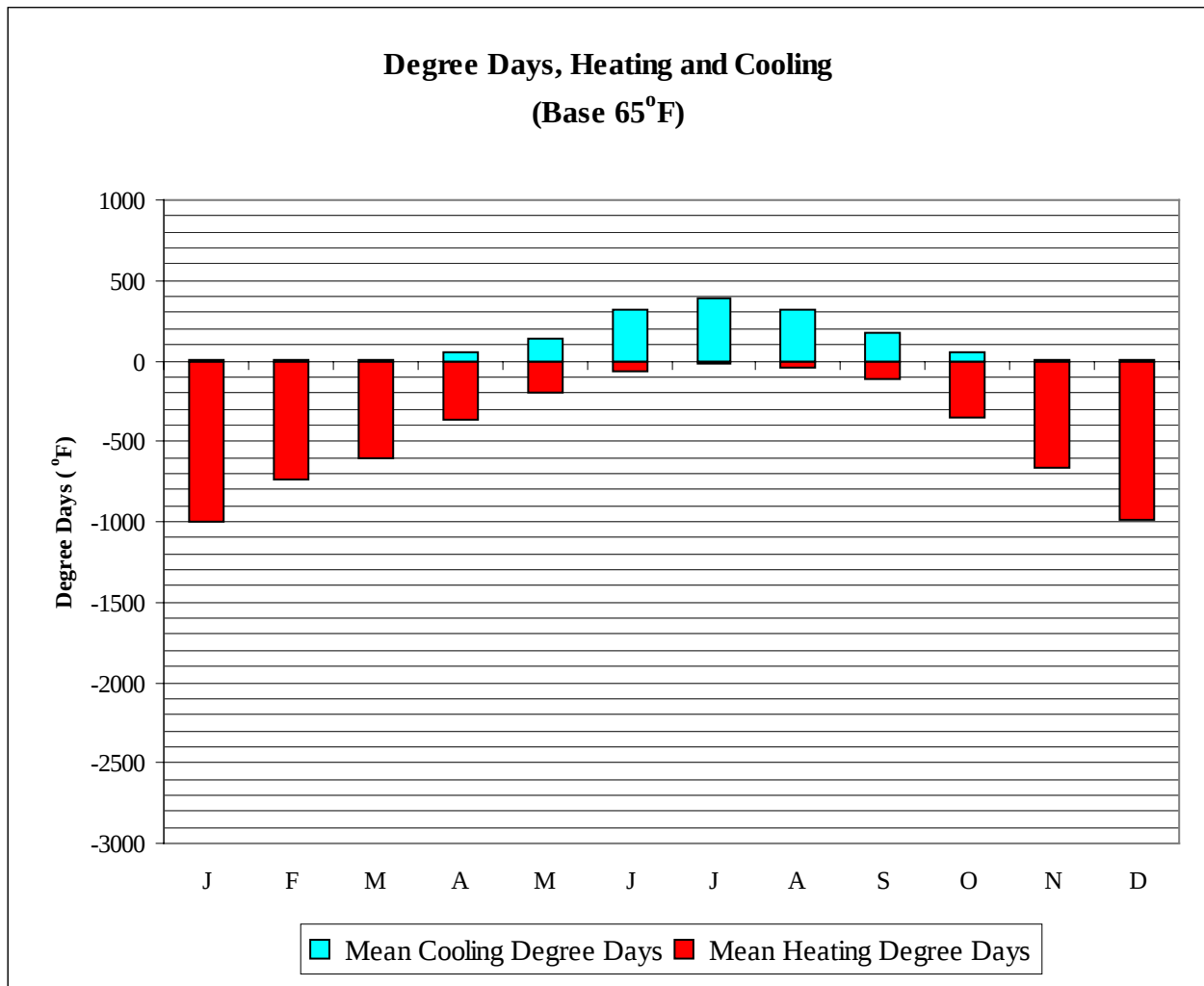
WINSLOW**AZ****WMO No. 723740****Long Term Dry Bulb Temperature and Humidity Summary**

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	56.0	41.5	42.9	22.6	6.0	44.8	47.4	26.7	15.6
14-Jan	58.0	47.4	44.9	21.6	1.0	49.0	53.3	27.5	15.7
21-Jan	58.0	41.2	44.6	21.7	3.0	43.4	43.0	25.9	15.9
28-Jan	60.0	42.8	46.9	21.9	11.0	35.7	43.9	24.7	14.9
4-Feb	60.0	42.4	49.0	24.2	11.0	42.0	43.2	25.3	16.0
11-Feb	62.0	45.1	51.3	25.2	12.0	42.0	48.9	26.9	16.9
18-Feb	66.0	45.3	54.4	28.0	17.0	45.5	46.8	28.8	18.3
25-Feb	69.0	46.3	55.2	27.4	17.0	45.5	48.4	26.4	16.0
4-Mar	68.0	46.9	57.3	30.2	16.0	47.6	49.7	30.3	19.0
11-Mar	72.0	48.6	59.1	31.2	20.0	45.5	53.4	29.2	18.0
18-Mar	73.0	48.3	59.4	31.1	21.0	43.4	49.9	28.2	17.7
25-Mar	73.0	48.1	62.2	32.8	25.0	46.9	52.3	29.1	17.2
1-Apr	75.0	49.1	60.0	33.1	21.0	46.9	56.6	30.2	17.6
8-Apr	78.0	50.5	65.7	35.2	27.0	39.9	46.4	28.4	16.4
15-Apr	80.0	51.1	68.8	37.5	29.0	46.9	57.7	28.4	16.4
22-Apr	83.0	52.9	69.4	38.8	29.0	44.8	55.6	28.3	17.0
29-Apr	83.0	53.5	72.5	41.3	33.0	45.5	59.4	31.7	18.8
6-May	85.0	55.6	73.8	43.6	34.0	63.7	60.5	36.3	21.4
13-May	87.0	55.3	75.7	43.8	35.0	57.4	57.4	34.9	19.9
20-May	88.5	54.8	77.8	47.3	37.0	61.6	59.2	38.8	23.5
27-May	92.0	57.1	80.1	48.0	39.0	63.7	57.1	36.8	22.3
3-Jun	90.0	55.9	81.6	49.9	42.0	64.4	56.2	38.8	23.0
10-Jun	96.0	59.5	86.1	53.0	44.0	68.6	60.3	39.5	22.9
17-Jun	96.0	58.8	88.9	55.2	46.0	63.7	60.0	36.2	20.6
24-Jun	99.0	60.8	91.1	57.0	49.0	82.6	66.8	40.1	23.0
1-Jul	99.0	61.3	92.6	60.0	51.0	85.4	67.5	50.2	30.1
8-Jul	100.0	61.1	92.3	61.3	54.0	92.4	66.9	58.8	34.4
15-Jul	98.0	60.3	91.2	63.3	58.0	99.4	71.9	73.2	46.4
22-Jul	97.0	62.1	89.9	63.3	58.0	102.9	68.9	76.9	49.7
29-Jul	98.0	62.7	90.8	62.9	57.0	109.9	69.2	75.4	48.9
5-Aug	98.0	61.4	91.4	63.9	59.0	100.1	72.1	76.0	48.4
12-Aug	97.0	62.7	90.5	63.2	-49.0	102.9	69.0	79.9	50.1
19-Aug	95.0	62.7	88.1	60.6	55.0	109.9	71.3	76.0	49.5
26-Aug	93.0	61.8	86.6	60.3	55.0	106.4	70.3	75.4	50.2
2-Sep	93.0	60.4	87.5	59.1	53.0	95.9	69.9	69.9	45.2
9-Sep	93.0	61.5	85.4	56.9	50.0	98.7	70.8	68.7	44.1
16-Sep	90.0	59.6	82.1	53.2	-42.0	89.6	65.3	61.8	38.6
23-Sep	88.0	58.2	80.0	51.9	44.0	85.4	67.5	57.2	36.2
30-Sep	87.0	56.7	78.9	49.1	40.0	88.9	62.1	50.5	31.3
7-Oct	85.0	55.9	76.7	46.3	38.0	77.0	62.3	44.1	28.2
14-Oct	83.0	54.3	73.6	42.7	32.0	71.4	62.9	39.7	25.3
21-Oct	80.0	52.3	69.5	39.5	31.0	61.6	54.0	36.7	23.1
28-Oct	77.0	50.8	66.3	37.6	26.0	63.0	54.4	37.1	24.9
4-Nov	74.0	51.0	62.0	34.9	23.0	56.7	58.4	34.2	22.2
11-Nov	74.0	49.6	62.4	33.9	25.0	53.2	49.9	31.4	20.5
18-Nov	70.0	47.4	58.0	30.2	20.0	45.5	51.7	28.6	18.2
25-Nov	67.0	45.9	53.8	27.6	16.0	45.5	48.4	26.6	16.6
2-Dec	65.0	45.3	48.3	23.1	11.0	39.2	46.1	23.1	13.8
9-Dec	64.0	46.4	49.9	23.6	3.0	42.0	49.8	26.1	15.5
16-Dec	62.0	46.8	46.8	22.0	4.0	39.2	48.8	24.3	14.4
23-Dec	59.0	43.0	45.2	22.1	9.0	42.0	40.4	24.5	14.7
31-Dec	56.0	41.6	42.8	21.4	-1.0	45.5	47.9	25.3	15.0

WINSLOW

AZ

WMO No. 723740



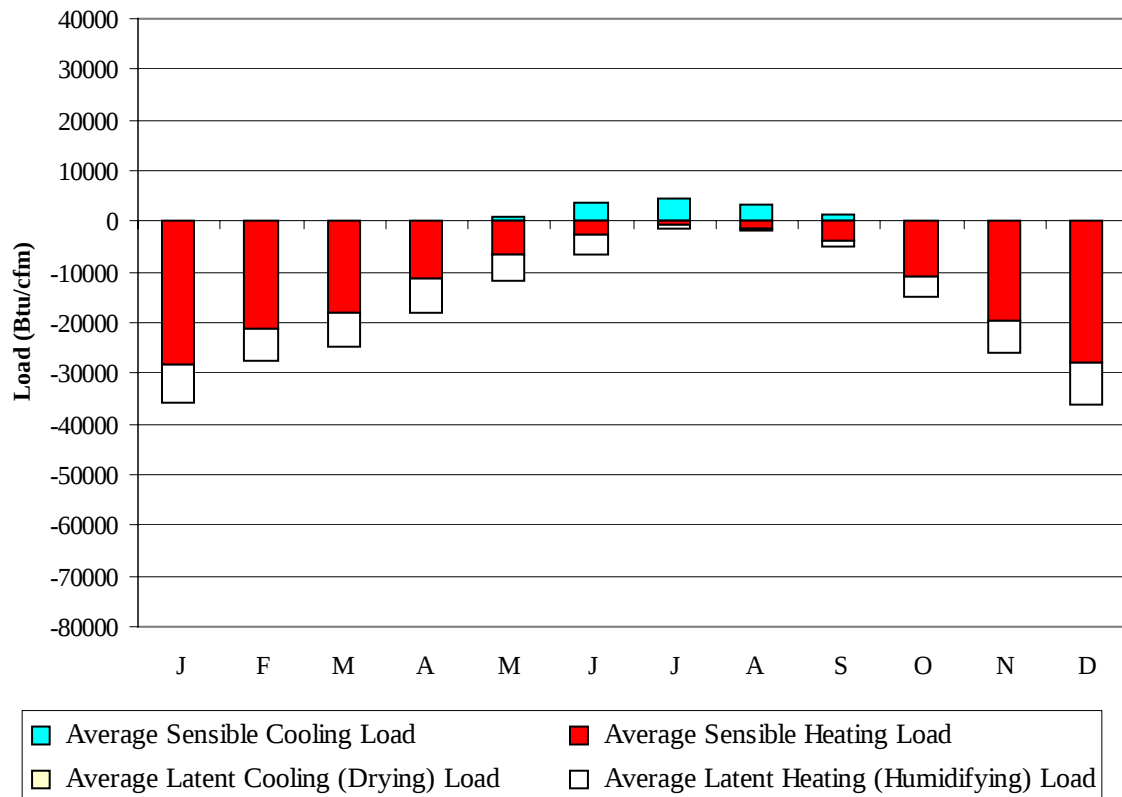
	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	999
FEB	1	732
MAR	8	607
APR	49	367
MAY	132	200
JUN	322	66
JUL	386	14
AUG	323	36
SEP	168	110
OCT	53	350
NOV	5	670
DEC	0	990
ANN	1449	5141

WINSLOW

AZ

WMO No. 723740

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	-28253	0	-7682
FEB	0	-21140	0	-6532
MAR	10	-18020	0	-6606
APR	175	-11367	0	-6547
MAY	935	-6638	0	-4972
JUN	3707	-2445	3	-4115
JUL	4313	-752	104	-886
AUG	3276	-1473	132	-400
SEP	1341	-3970	22	-1207
OCT	236	-11010	0	-4011
NOV	2	-19541	0	-6354
DEC	0	-28031	0	-7982
ANN	13995	-152640	261	-57294

Average Annual Solar Radiation – Nearest Available Site
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available

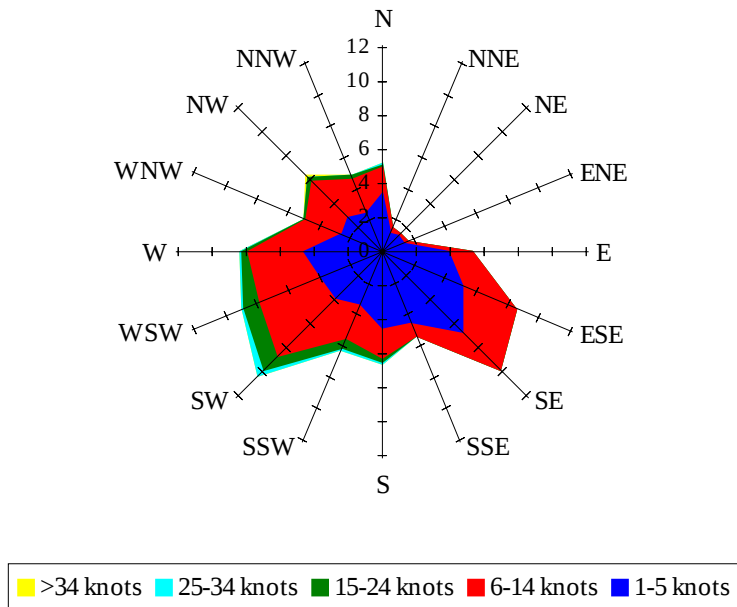


Average Annual Solar Heat and Illumination – Nearest Available Site

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

Wind Summary - December, January, and February

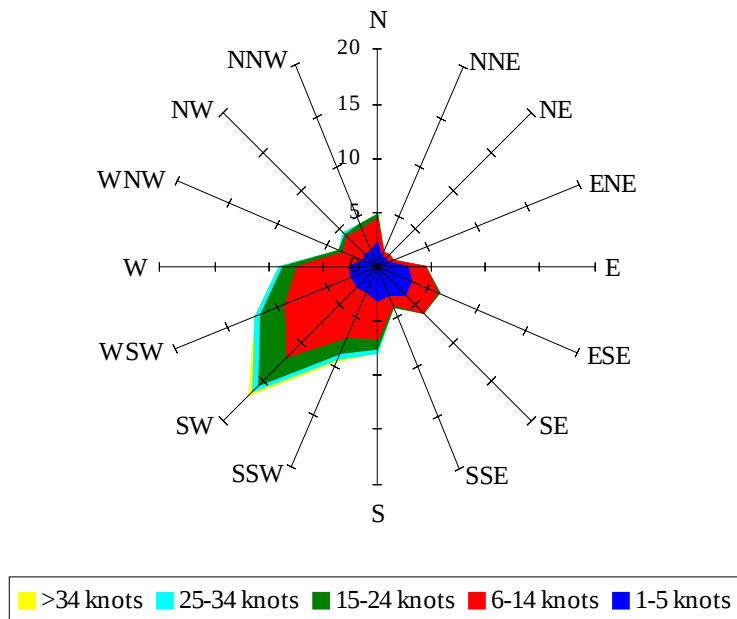
Labels of Percent Frequency on North Axis



Percent Calm = 5.66

Wind Summary - March, April, and May

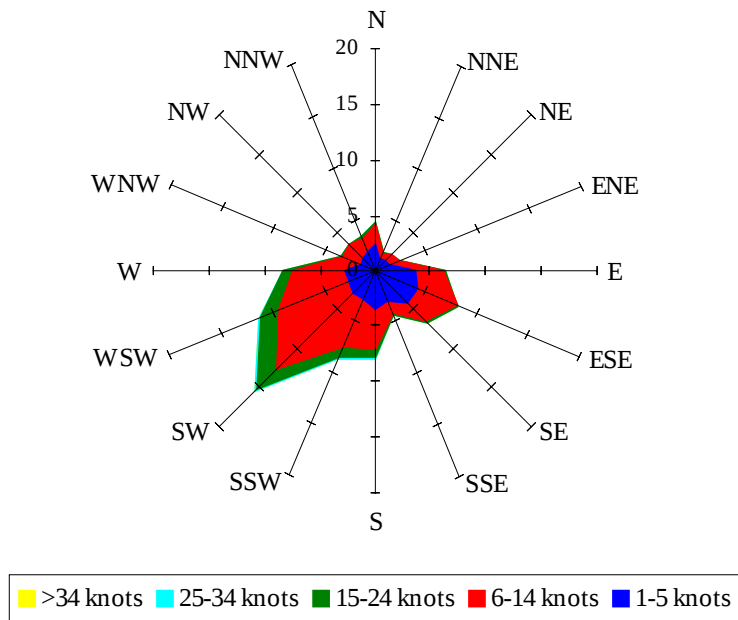
Labels of Percent Frequency on North Axis



Percent Calm = 2.49

Wind Summary - June, July, and August

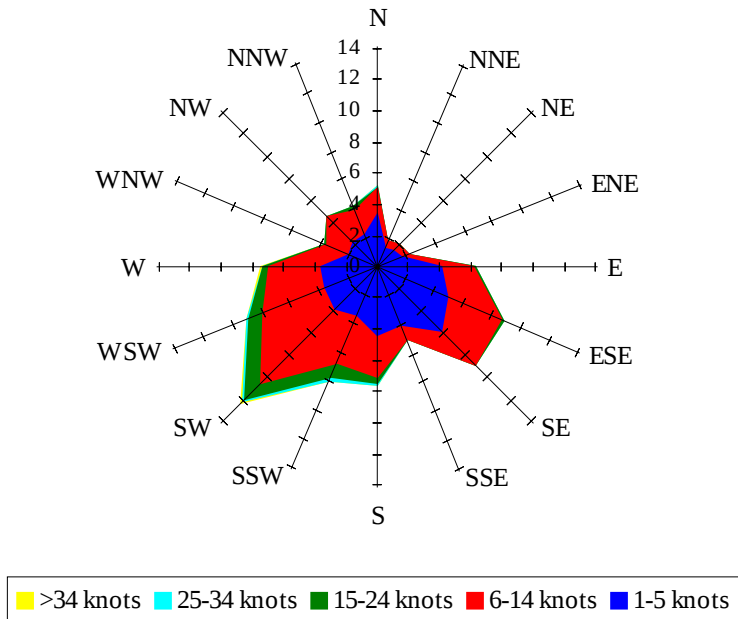
Labels of Percent Frequency on North Axis



Percent Calm = 2.75

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 4.49