

LANDER/HUNT WY

Latitude = 42.82 N

Longitude = 108.70 W

Period of Record = 1973 to 1996

WMO No. 725760

Elevation = 5558 feet

Average Pressure = 24.44 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	96	60	35	9.7	W
0.4% Occurrence	91	58	38	9.9	W
1.0% Occurrence	88	58	40	9.7	W
2.0% Occurrence	85	57	41	9.3	W
Mean Daily Range	23	-	-	-	-
97.5% Occurrence	1	0	5	3.5	SE
99.0% Occurrence	-6	-6	4	3.1	SE
99.6% Occurrence	-13	-13	2	2.9	SE
Median of Extreme Lows	-19	-19	2	2.8	SE
	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	65	82	81	7.4	N
0.4% Occurrence	62	81	68	7.2	N
1.0% Occurrence	61	81	64	7.3	N
2.0% Occurrence	59	79	57	7.6	N
	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	95	70	0.52	6.2	NNW
0.4% Occurrence	81	69	0.45	6.5	NW
1.0% Occurrence	74	67	0.41	6.3	W
2.0% Occurrence	68	68	0.38	6.4	N
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		16	465	0	1

Other Site Data

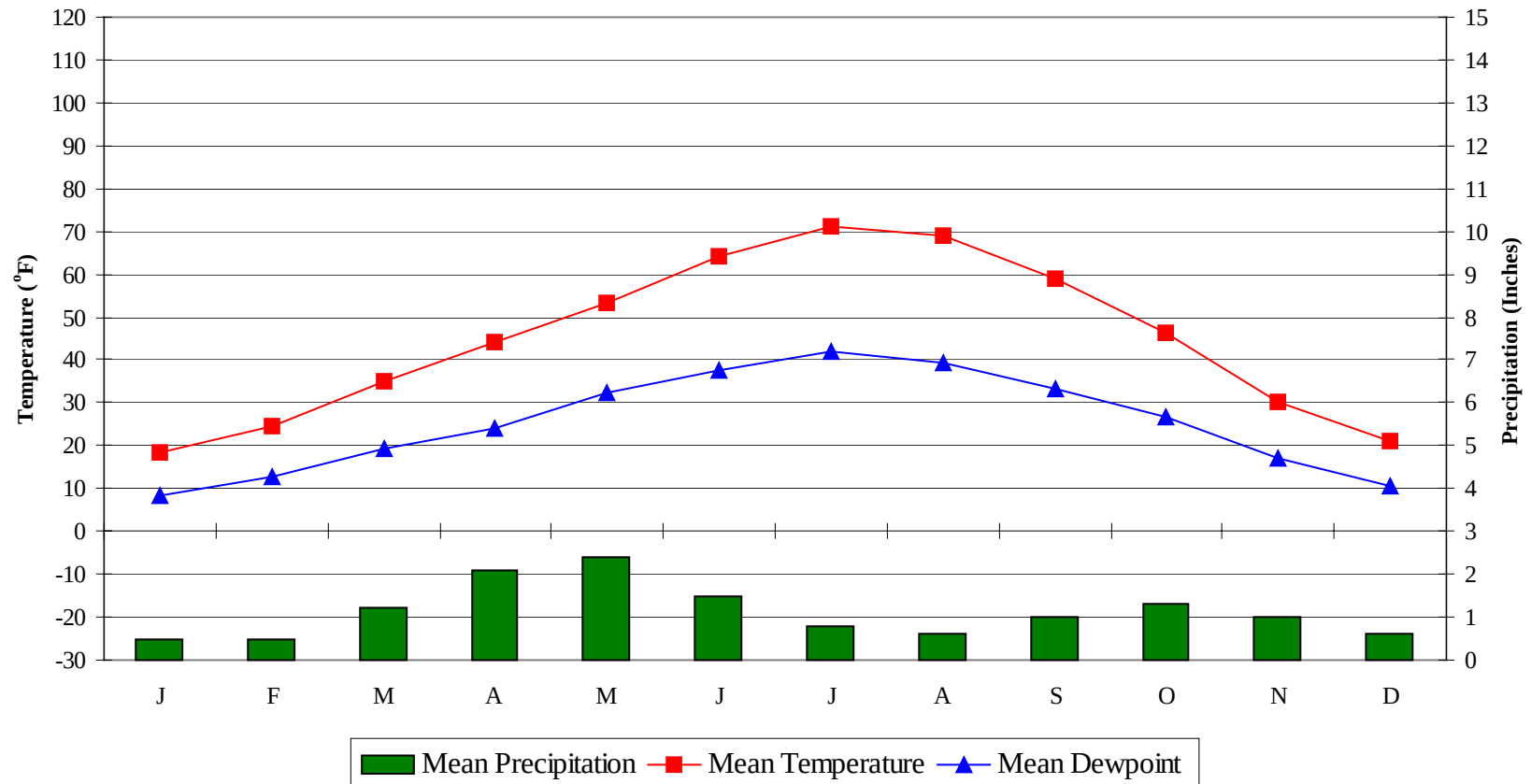
Weather Region	Rain Rate 100 Year Recurrence (in./hr)	Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph)	Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible
5	1.5	90	0.0 + 0.5
Ground Water Temperature (°F) 50 Foot Depth *	Frost Depth 50 Year Recurrence (in.)	Ground Snow Load 50 Year Recurrence (lb/ft ²)	Average Annual Freeze-Thaw Cycles (#)
47.3	N/A	24	110

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

LANDER/HUNT WY

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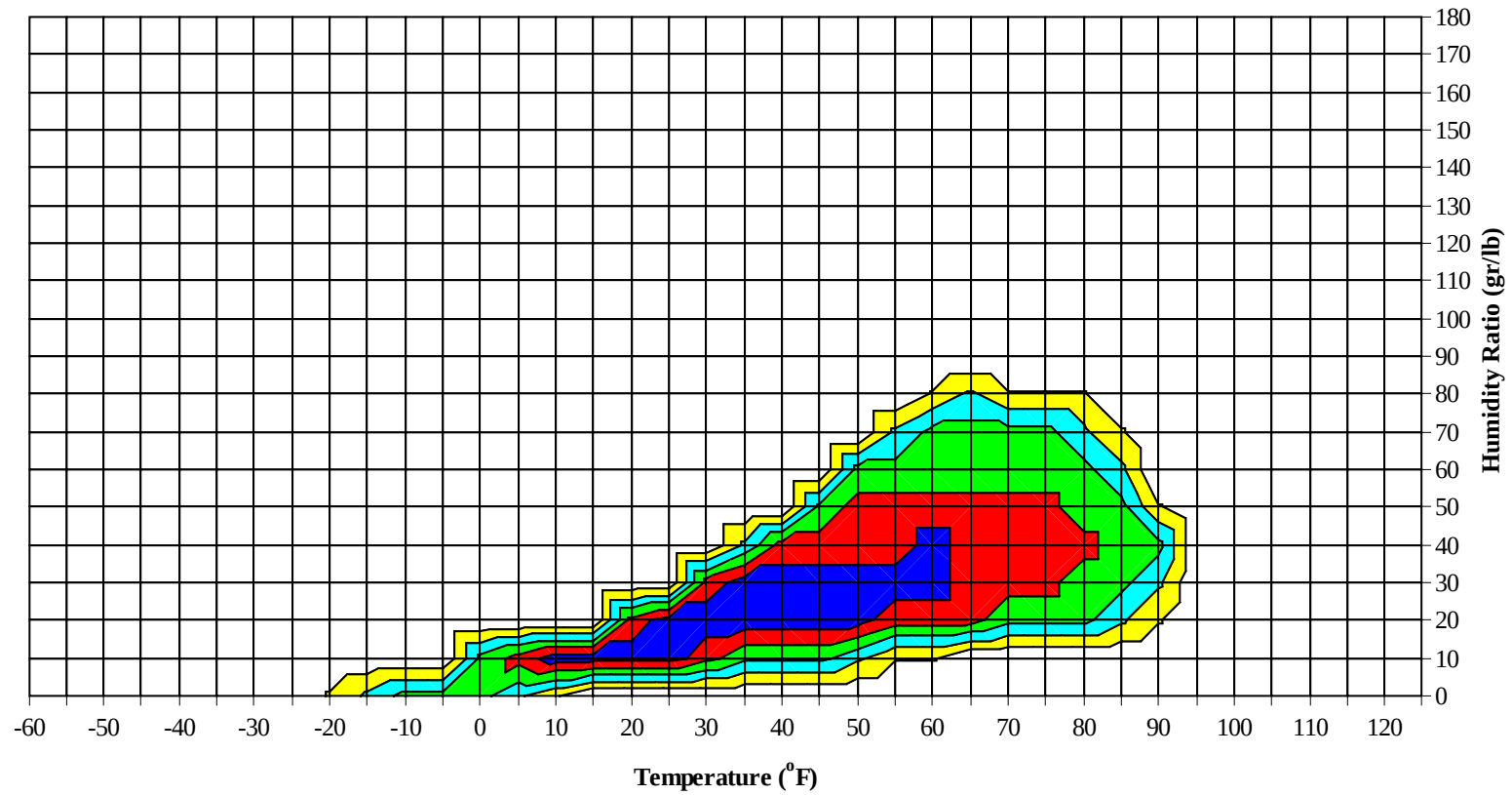
Average Annual Climate



LANDER/HUNT WY

WMO No. 725760

Long Term Psychrometric Summary

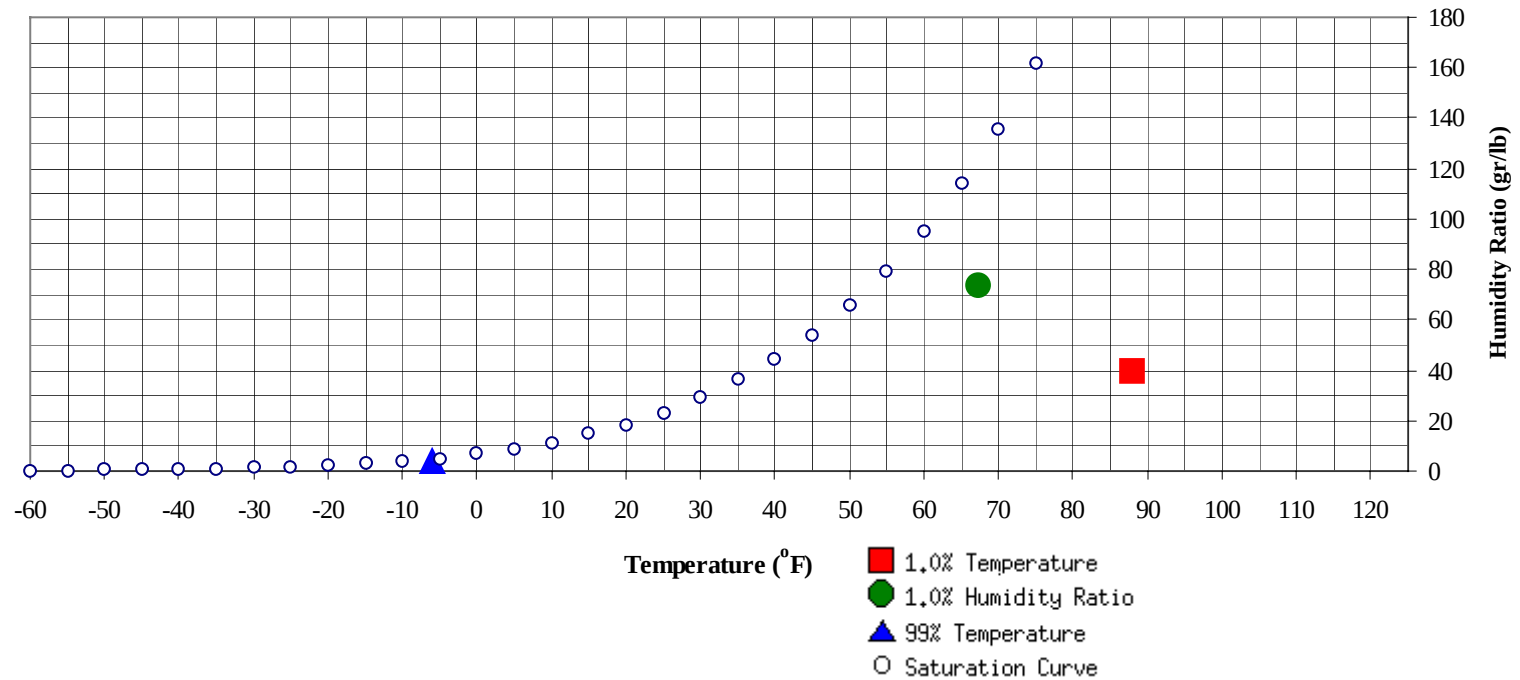


- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

LANDER/HUNT WY

WMO No. 725760

Psychrometric Summary of Peak Design Values



	(°F)	MCHR (gr/lb)	Enthalpy (btu/lb)	1.0% Humidity Ratio	(gr/lb)	MCDB (°F)	MCWB (°F)	MC Dewpt (°F)	Enthalpy (btu/lb)
99% Dry Bulb	-6	3.6	-0.9		73.5	67.4	58.1	53.1	27.6

	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
1.0% Dry Bulb	88	39.3	57.9	27.3

LANDER/HUNT WY

WMO No. 725760

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84															
75 / 79															
70 / 74												1	0	1	46.3
65 / 69							0		0	47.0		2	1	3	45.2
60 / 64							1	0	1	44.8		7	2	9	43.0
55 / 59	0	0	0	0	39.3	0	3	1	4	41.2	1	16	7	24	41.2
50 / 54	0	2	0	2	37.8	0	9	3	12	38.7	3	28	16	47	38.7
45 / 49	1	8	3	12	35.8	2	17	10	29	36.1	6	35	29	70	36.1
40 / 44	4	19	9	32	33.1	6	25	18	49	33.5	15	41	37	93	33.5
35 / 39	7	26	17	50	30.2	13	33	27	73	30.5	36	42	45	123	30.9
30 / 34	18	30	28	76	27.1	27	33	35	95	27.3	60	34	48	142	28.1
25 / 29	28	31	35	94	23.4	39	27	36	102	23.7	57	21	31	109	24.0
20 / 24	41	32	35	108	19.3	40	20	25	85	19.4	34	10	15	59	19.8
15 / 19	36	28	31	95	15.0	26	17	20	63	14.9	18	7	9	34	15.3
10 / 14	31	23	29	83	10.6	20	14	16	50	10.5	10	3	5	18	10.9
5 / 9	28	17	21	66	5.9	19	9	13	41	6.0	5	1	2	8	6.1
0 / 4	20	12	16	48	1.1	13	7	7	27	1.3	2	0	1	3	1.4
-5 / -1	12	8	8	28	-2.9	6	3	4	13	-3.1	1		0	1	-3.0
-10 / -6	10	6	8	24	-7.2	6	3	4	13	-7.3	0			0	-6.6
-15 / -11	6	2	4	12	-12.2	5	1	2	8	-12.2					
-20 / -16	5	2	2	9	-17.0	2	1	1	4	-16.9					
-25 / -21	2	0	1	3	-21.5	1	0	1	2	-21.6					
-30 / -26	1		0	1	-26.5										
-35 / -31	0			0	-30.0										
-40 / -36															

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.

LANDER/HUNT WY

WMO No. 725760

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		
95 / 99												1	0	1	59.8
90 / 94												6	2	8	58.6
85 / 89							0	0	0	55.2		20	9	29	57.1
80 / 84		0		0	52.2		7	2	9	53.1	0	33	18	51	56.1
75 / 79		5	1	6	50.0		19	8	27	52.0	2	40	26	68	54.8
70 / 74	0	11	4	15	49.0	0	27	14	41	51.2	8	44	36	88	53.3
65 / 69	1	17	7	25	46.5	2	34	23	59	49.2	19	37	40	96	51.4
60 / 64	1	25	16	42	44.3	9	42	36	87	46.8	44	27	40	111	49.2
55 / 59	5	32	25	62	42.1	26	38	40	104	45.1	59	16	31	106	47.3
50 / 54	17	36	34	87	39.8	46	34	43	123	42.9	53	9	20	82	44.8
45 / 49	26	33	36	95	37.3	58	22	38	118	40.5	33	5	11	49	41.8
40 / 44	40	29	37	106	34.9	52	12	25	89	37.5	17	2	5	24	38.5
35 / 39	54	23	36	113	32.1	32	7	13	52	33.7	4	1	1	6	34.5
30 / 34	51	19	26	96	29.0	20	4	7	31	30.6	1		0	1	32.4
25 / 29	29	7	12	48	24.5	3	0	1	4	26.2					
20 / 24	11	2	4	17	20.3	0		0	0	22.1					
15 / 19	3	1	1	5	15.4										
10 / 14	2	0	1	3	10.3										
5 / 9	1		0	1	6.1										
0 / 4	0			0	1.1										
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															

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LANDER/HUNT WY

WMO No. 725760

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		
95 / 99		3	1	4	59.5		1	0	1	59.9					
90 / 94		20	8	28	58.8		11	3	14	58.3		1	0	1	58.8
85 / 89	0	45	20	65	58.2		38	14	52	57.3		8	2	10	56.0
80 / 84	1	54	30	85	57.6	0	54	25	79	56.8		21	7	28	54.4
75 / 79	4	51	43	98	56.5	2	53	40	95	55.6	1	34	15	50	53.0
70 / 74	23	38	49	110	54.9	13	43	54	110	53.9	2	39	26	67	51.4
65 / 69	52	21	49	122	53.3	42	27	50	119	52.3	10	37	36	83	49.8
60 / 64	76	10	30	116	51.5	71	15	36	122	50.3	26	32	39	97	47.6
55 / 59	60	4	14	78	49.5	70	5	20	95	48.4	40	26	41	107	45.4
50 / 54	26	1	4	31	46.9	37	1	6	44	45.5	57	17	30	104	43.4
45 / 49	6		1	7	43.4	11	0	1	12	41.5	46	11	20	77	40.5
40 / 44	1			1	39.9	3			3	37.6	30	6	13	49	37.6
35 / 39											16	4	5	25	34.0
30 / 34											8	3	4	15	30.6
25 / 29											3	1	2	6	26.0
20 / 24											1	0		1	22.3
15 / 19															
10 / 14															
5 / 9															
0 / 4															
-5 / -1															
-10 / -6															
-15 / -11															
-20 / -16															
-25 / -21															
-30 / -26															
-35 / -31															
-40 / -36															

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LANDER/HUNT WY

WMO No. 725760

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		
95 / 99															
90 / 94															
85 / 89															
80 / 84		1	0	1	51.4										
75 / 79		7	1	8	50.8										
70 / 74		15	3	18	49.1										
65 / 69	0	24	10	34	47.3		1		1	46.5					
60 / 64	4	34	19	57	45.2	0	7	1	8	44.4		0		0	42.1
55 / 59	7	37	29	73	43.1	1	12	3	16	42.2		2	0	2	41.0
50 / 54	18	36	40	94	40.7	3	19	9	31	39.6	1	5	2	8	38.9
45 / 49	39	30	42	111	38.4	6	28	16	50	37.0	5	12	5	22	36.6
40 / 44	52	26	39	117	35.7	14	30	27	71	34.0	7	18	11	36	33.2
35 / 39	53	18	31	102	32.4	30	29	37	96	31.0	10	23	16	49	30.3
30 / 34	42	13	22	77	29.2	41	32	39	112	27.7	17	34	25	76	26.9
25 / 29	21	4	9	34	25.0	43	27	34	104	23.9	32	41	39	112	23.3
20 / 24	7	1	3	11	20.8	35	20	26	81	19.6	40	36	43	119	19.3
15 / 19	2	1	1	4	16.0	24	11	18	53	15.3	40	29	38	107	15.0
10 / 14	1	0	1	2	11.7	16	9	11	36	10.9	37	19	27	83	10.6
5 / 9	0	0	0	0	7.2	11	7	10	28	6.3	26	12	18	56	6.0
0 / 4	0		0	0	1.7	7	4	6	17	1.5	14	6	10	30	1.3
-5 / -1	0		0	0	-1.7	5	2	3	10	-2.7	8	3	5	16	-2.9
-10 / -6						3	1	2	6	-7.0	4	3	3	10	-7.3
-15 / -11						1	0	0	1	-11.7	3	1	2	6	-12.0
-20 / -16						0			0	-15.1	2	1	1	4	-17.1
-25 / -21											1	1	2	4	-22.1
-30 / -26											1	0	1	2	-26.6
-35 / -31											1	0	0	1	-31.4
-40 / -36											0			0	-36.0

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LANDER/HUNT WY

WMO No. 725760

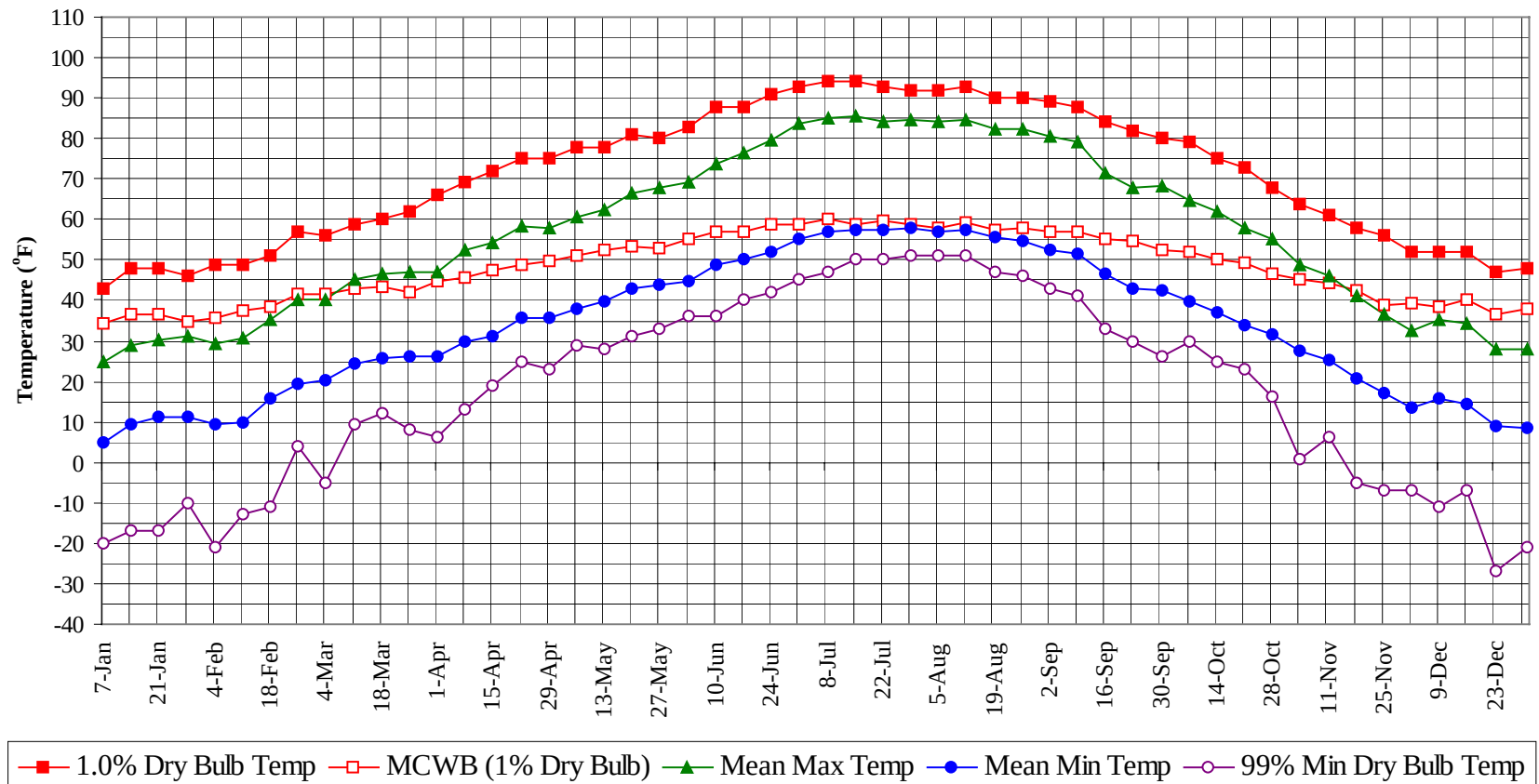
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1973 to 1996

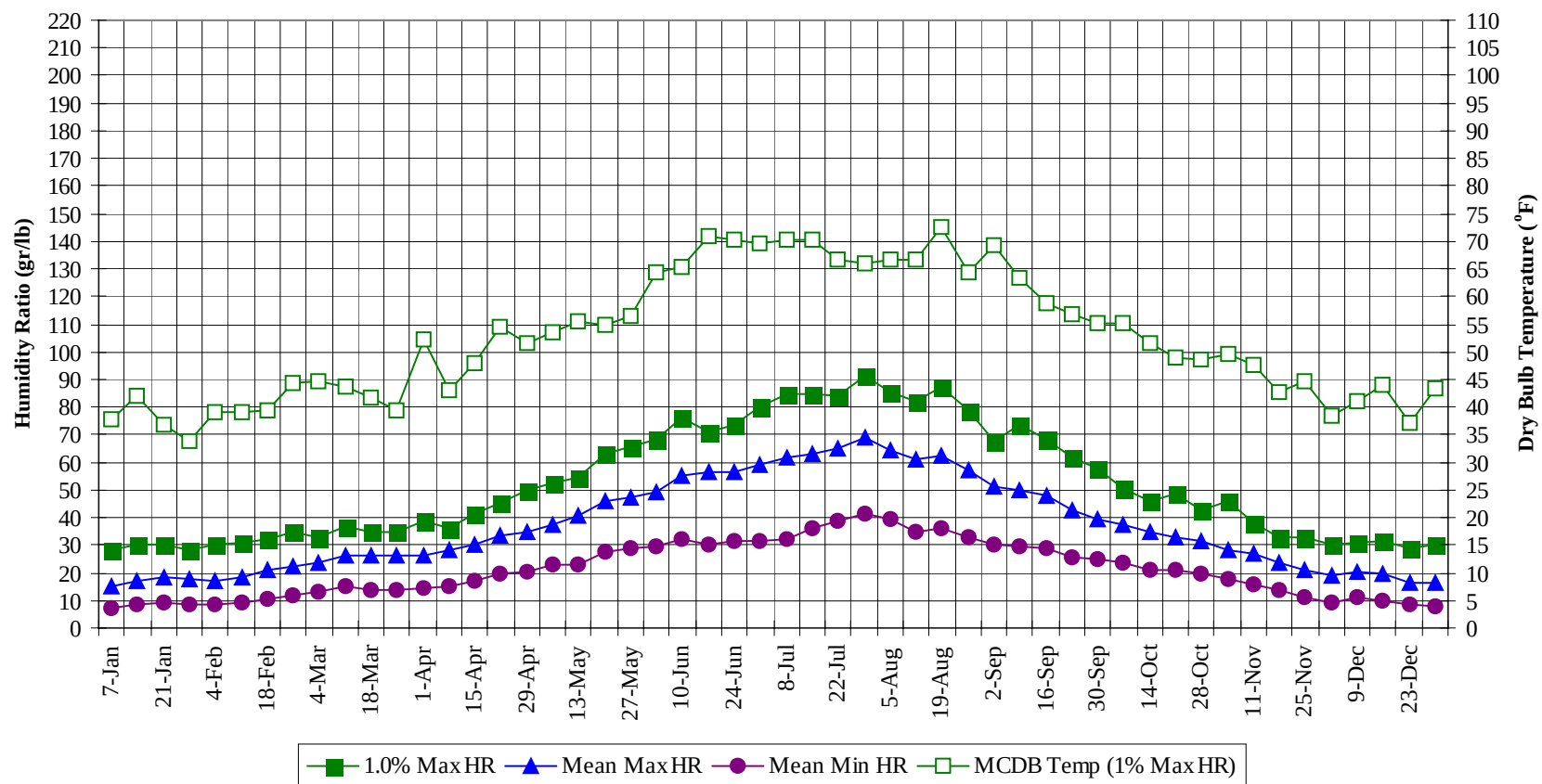
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
95 / 99		5	2	7	59.6
90 / 94		39	13	52	58.6
85 / 89	0	110	45	155	57.6
80 / 84	1	169	82	252	56.5
75 / 79	9	209	134	351	54.8
70 / 74	46	218	187	450	53.0
65 / 69	127	201	214	542	51.0
60 / 64	231	202	219	652	48.4
55 / 59	268	192	211	671	45.7
50 / 54	260	198	206	663	42.3
45 / 49	237	203	211	651	38.7
40 / 44	239	209	220	668	35.2
35 / 39	255	209	226	690	31.6
30 / 34	284	203	233	720	28.1
25 / 29	254	160	199	613	23.8
20 / 24	210	121	153	484	19.5
15 / 19	150	92	118	360	15.1
10 / 14	117	67	88	272	10.6
5 / 9	90	46	64	200	6.0
0 / 4	58	30	40	128	1.3
-5 / -1	31	16	21	68	-2.9
-10 / -6	23	12	17	52	-7.3
-15 / -11	15	5	8	28	-12.1
-20 / -16	9	4	4	17	-17.0
-25 / -21	4	2	4	10	-21.7
-30 / -26	2	0	1	3	-26.5
-35 / -31	1	0	0	1	-31.4
-40 / -36	0			0	-36.0

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Annual Summary of Temperatures



Long Term Humidity and Dry Bulb Temperature Summary

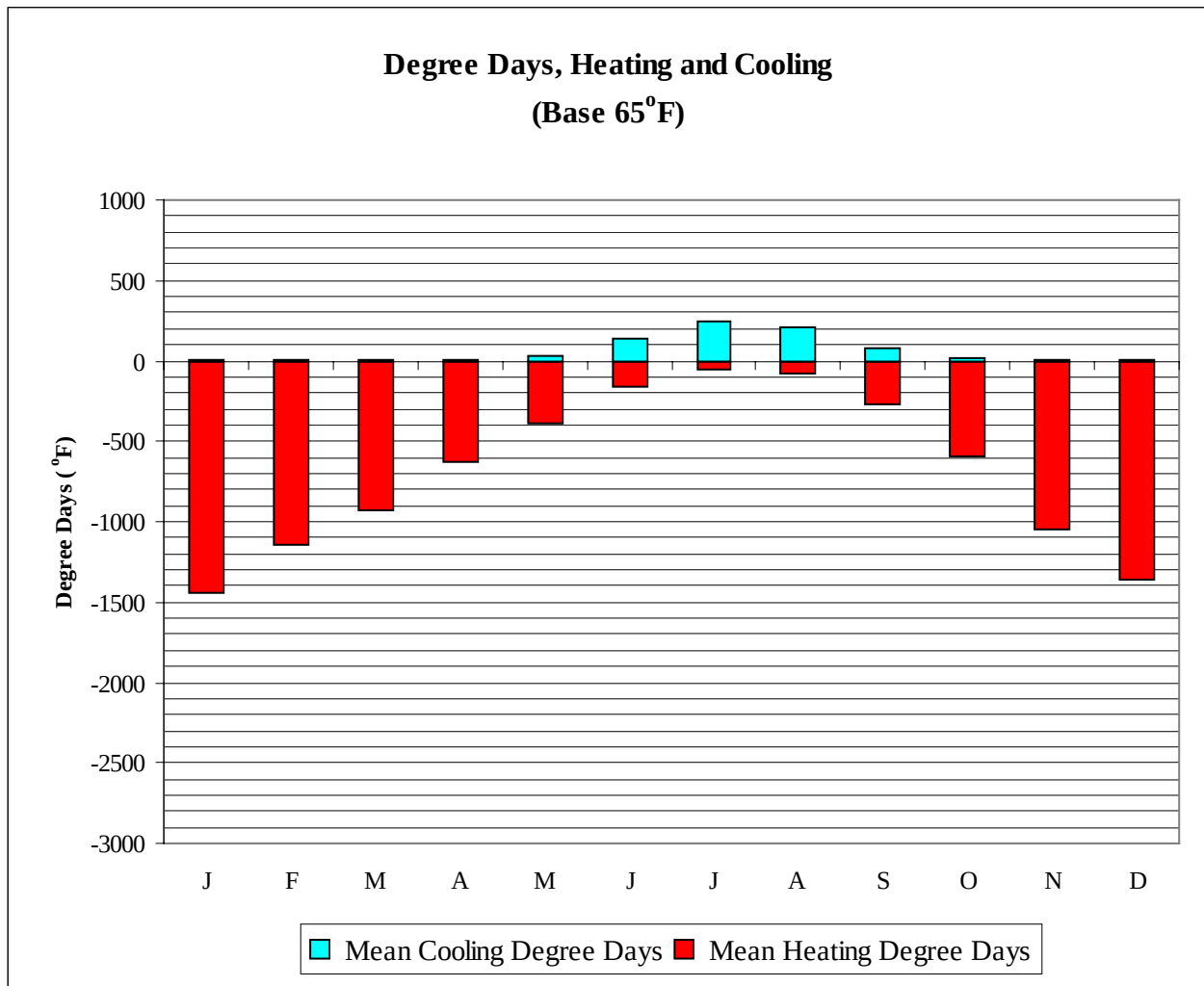


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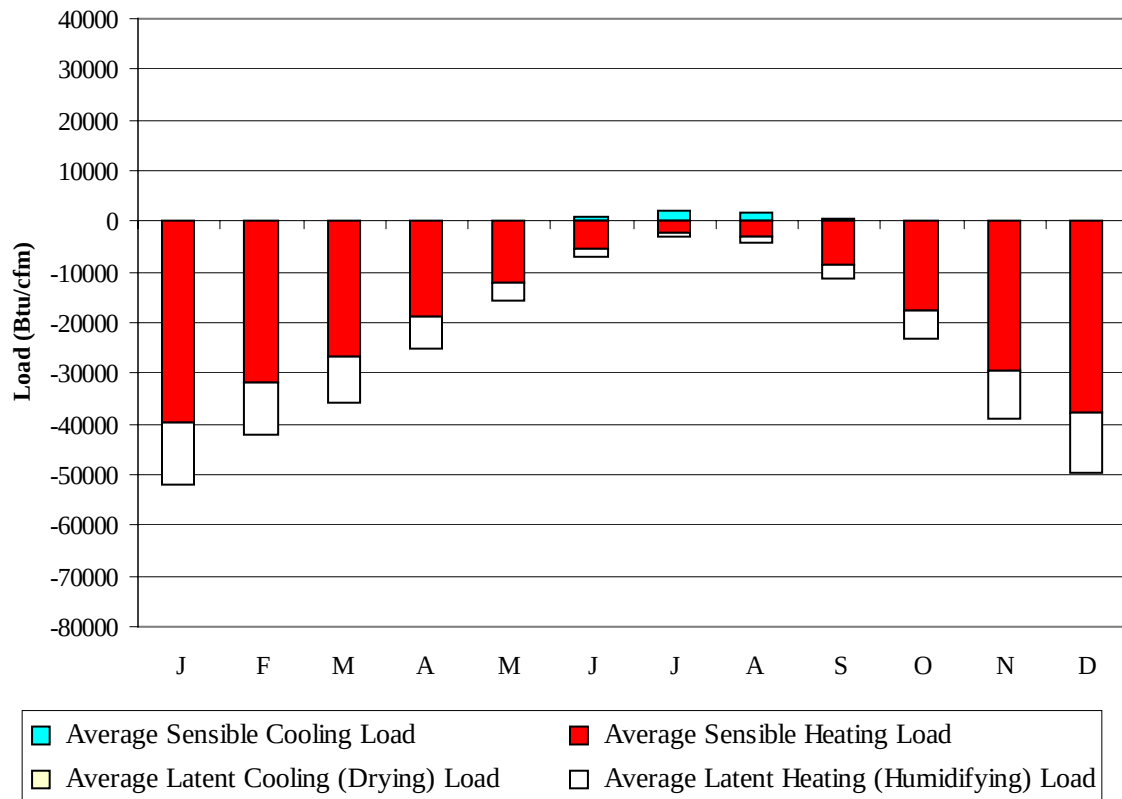
Long Term Dry Bulb Temperature and Humidity Summary

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	43.0	34.4	24.6	4.7	-20.0	28.0	37.6	15.1	7.3
14-Jan	48.0	36.7	29.0	9.2	-17.0	30.1	41.9	16.9	8.6
21-Jan	48.0	36.6	30.4	11.2	-17.0	30.1	36.9	18.3	9.5
28-Jan	46.0	34.9	31.1	11.4	-10.0	28.0	33.9	17.6	8.6
4-Feb	49.0	35.5	29.3	9.4	-21.0	30.1	39.1	16.9	8.5
11-Feb	49.0	37.4	30.7	10.1	-13.0	30.8	39.1	18.3	9.1
18-Feb	51.0	38.2	35.1	15.6	-11.0	32.2	39.4	20.7	10.8
25-Feb	57.0	41.6	40.1	19.3	4.0	35.0	44.2	22.6	11.8
4-Mar	56.0	41.6	40.0	20.3	-5.0	32.9	44.6	23.4	12.9
11-Mar	59.0	42.7	45.1	24.6	9.5	37.1	43.6	26.0	15.0
18-Mar	60.0	43.5	46.4	25.8	12.0	35.0	41.6	26.0	14.1
25-Mar	62.0	42.1	47.1	26.0	8.0	35.0	39.4	26.4	14.0
1-Apr	66.0	44.9	47.2	26.2	6.0	38.5	52.3	26.3	14.2
8-Apr	69.0	45.8	52.4	29.7	13.0	36.4	43.1	28.0	15.4
15-Apr	72.0	47.5	54.2	31.3	19.0	41.3	47.9	30.4	16.8
22-Apr	75.0	48.7	58.1	35.6	25.0	45.5	54.5	33.5	19.7
29-Apr	75.0	49.9	57.8	35.7	23.0	49.7	51.5	35.0	20.3
6-May	78.0	51.3	60.4	37.9	29.0	52.5	53.7	37.6	22.8
13-May	78.0	52.2	62.3	39.8	28.0	54.6	55.6	40.5	23.2
20-May	81.0	53.3	66.6	43.1	31.0	63.0	54.9	46.1	27.3
27-May	80.0	53.0	67.7	44.1	33.0	65.8	56.3	47.3	28.7
3-Jun	83.0	55.4	69.3	44.9	36.0	68.6	64.3	49.5	29.6
10-Jun	88.0	57.1	73.6	49.0	36.0	76.3	65.4	55.2	31.9
17-Jun	88.0	56.8	76.5	50.4	40.0	70.7	70.9	56.6	30.4
24-Jun	91.0	58.8	79.8	52.0	42.0	73.5	70.3	56.4	31.2
1-Jul	93.0	58.9	83.5	55.3	45.0	79.8	69.8	58.9	31.6
8-Jul	94.0	60.3	85.1	56.8	47.0	84.7	70.2	61.8	32.4
15-Jul	94.0	59.0	85.5	57.2	50.0	84.7	70.3	63.3	35.9
22-Jul	93.0	59.6	84.3	57.6	50.0	84.0	66.8	64.7	38.7
29-Jul	92.0	59.0	84.5	58.0	51.0	91.0	66.0	68.8	41.2
5-Aug	92.0	57.9	84.3	57.2	51.0	85.4	66.7	64.7	39.1
12-Aug	93.0	59.3	84.7	57.3	51.0	81.9	66.8	61.0	35.1
19-Aug	90.0	57.5	82.5	55.6	47.0	87.5	72.7	62.4	36.3
26-Aug	90.0	57.7	82.4	54.6	46.0	79.1	64.5	57.1	33.0
2-Sep	89.0	57.1	80.6	52.7	43.0	67.9	69.1	51.0	30.0
9-Sep	88.0	56.9	79.1	51.7	41.0	73.5	63.3	50.0	29.6
16-Sep	84.0	55.3	71.3	46.6	33.0	68.6	58.9	47.6	29.1
23-Sep	82.0	54.7	67.8	42.7	30.0	61.6	56.9	43.0	25.9
30-Sep	80.0	52.5	68.3	42.4	26.0	58.1	55.1	39.5	24.7
7-Oct	79.0	51.8	64.9	39.6	30.0	50.4	55.3	37.2	23.7
14-Oct	75.0	50.3	62.0	36.9	25.0	46.2	51.6	34.6	21.2
21-Oct	73.0	49.2	57.9	33.8	23.0	48.3	49.0	33.1	21.0
28-Oct	68.0	46.6	55.1	31.8	16.0	42.7	48.5	31.4	19.4
4-Nov	64.0	45.4	48.6	27.4	1.0	46.2	49.6	28.4	17.4
11-Nov	61.0	44.3	46.3	25.4	6.0	37.8	47.6	27.1	16.0
18-Nov	58.0	42.6	41.3	20.9	-5.0	32.9	42.8	23.8	13.7
25-Nov	56.0	38.9	36.8	17.2	-7.0	32.9	44.6	20.8	11.1
2-Dec	52.0	39.4	32.7	13.3	-7.0	30.1	38.4	18.7	9.5
9-Dec	52.0	38.5	35.1	15.6	-11.0	30.8	41.1	20.5	11.1
16-Dec	52.0	40.2	34.3	14.2	-7.0	31.5	43.9	19.4	9.9
23-Dec	47.0	36.5	27.9	9.1	-27.0	28.7	37.2	16.5	8.4
31-Dec	48.0	37.7	27.9	8.4	-21.0	30.1	43.4	16.2	8.2



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	1438
FEB	0	1149
MAR	0	933
APR	9	634
MAY	35	394
JUN	137	159
JUL	244	59
AUG	205	78
SEP	79	266
OCT	12	592
NOV	0	1048
DEC	0	1358
ANN	721	8108

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	-39671	0	-12442
FEB	0	-31981	0	-10226
MAR	0	-26585	0	-9014
APR	9	-18655	0	-6477
MAY	108	-12275	0	-3243
JUN	1014	-5480	0	-1458
JUL	2199	-2432	6	-697
AUG	1638	-3050	3	-1317
SEP	437	-8574	0	-2771
OCT	22	-17603	0	-5574
NOV	0	-29504	0	-9397
DEC	0	-37598	0	-11975
ANN	5427	-233408	9	-74591

Average Annual Solar Radiation – Nearest Available Site

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

City: LANDER
 State: WY
 WBAN No: 24021
 Lat(N): 42.82
 Long(W): 108.73
 Elev(ft): 5565

Stn Type: Primary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.615
 Vert Gap: 0.329

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	680	1000	1400	1770	2010	2260	2230	1990	1590	1130	740	590	1450
	Std Dev	47	63	78	126	125	143	94	91	108	71	38	29	36
	Minimum	590	870	1170	1570	1690	1940	1950	1770	1310	970	660	540	1370
	Maximum	750	1130	1530	2070	2240	2500	2420	2110	1800	1210	820	640	1520
Clear Day	Diffuse	280	390	530	720	780	730	670	580	470	360	290	240	500
	Global	840	1220	1740	2300	2660	2790	2700	2380	1890	1340	910	730	1790
	Global	190	270	360	470	580	680	630	480	360	270	200	160	390
	Diffuse	190	270	360	460	510	530	500	440	350	270	200	160	350
Clear Day	Global	160	220	290	410	600	740	670	460	320	230	170	140	370
	Global	490	690	920	1100	1220	1360	1380	1280	1040	780	540	440	940
	Diffuse	240	340	440	560	620	620	590	530	440	340	260	210	430
	Global	690	930	1210	1470	1610	1640	1610	1480	1280	980	740	620	1190
Clear Day	Global	1320	1470	1410	1190	990	920	970	1150	1370	1470	1320	1270	1240
	Diffuse	380	460	530	590	590	570	560	530	490	430	380	330	490
	Global	2040	2140	1980	1570	1200	1030	1090	1370	1780	2030	2030	1940	1680
	Global	500	690	890	1050	1120	1230	1190	1120	990	770	540	440	880
Clear Day	Diffuse	250	340	450	580	630	640	610	550	450	340	260	210	440
	Global	690	930	1210	1470	1610	1640	1610	1480	1280	980	740	620	1190

Average Annual Solar Heat and Illumination – Nearest Available Site

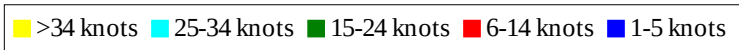
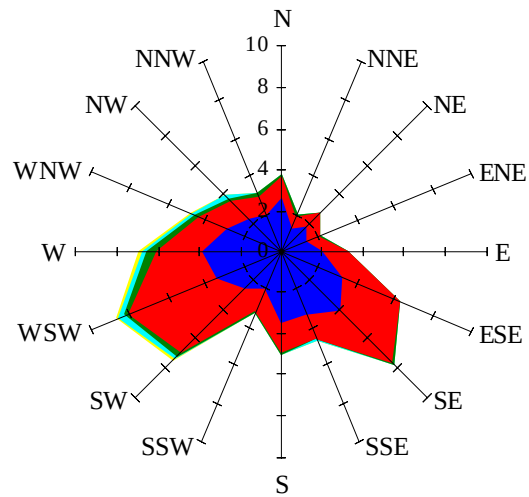
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	420	670	980	1270	1460	1650	1630	1440	1130	770	470	350	1020
NORTH	Unshaded	130	180	250	320	380	430	400	310	250	190	140	110	260
	Shaded	120	160	220	280	330	380	360	280	220	170	120	100	230
EAST	Unshaded	340	480	660	790	870	980	1000	920	750	550	370	300	670
	Shaded	300	420	560	660	720	810	820	770	640	480	330	270	570
SOUTH	Unshaded	1000	1090	990	790	620	550	580	730	940	1070	990	970	860
	Shaded	980	1010	760	480	360	350	340	390	630	930	960	950	680
WEST	Unshaded	340	490	630	750	790	880	850	800	710	540	370	300	620
	Shaded	310	420	540	630	660	730	710	680	600	480	330	270	530

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	34	67	81	67	32	47	83	101	99	74
	M.Cloudy	25	52	62	50	22	33	63	78	73	55
NORTH	M.Clear	9	13	14	13	8	18	15	16	16	14
	M.Cloudy	9	15	17	15	8	14	17	18	18	16
EAST	M.Clear	76	60	14	13	8	85	76	36	16	14
	M.Cloudy	40	42	17	15	8	47	54	31	18	16
SOUTH	M.Clear	39	75	90	74	35	10	33	51	49	26
	M.Cloudy	23	51	62	48	20	11	28	42	39	23
WEST	M.Clear	9	13	17	66	75	10	15	16	47	80
	M.Cloudy	9	15	19	44	37	11	17	18	38	54
M.Clear	(% hrs)	35	35	30	29	30	54	53	45	36	35
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	25	64	81	79	50	9	35	43	28	2
	M.Cloudy	16	44	61	56	36	7	25	32	21	2
NORTH	M.Clear	7	12	14	14	11	4	9	10	8	1
	M.Cloudy	6	13	16	16	12	3	9	11	8	1
EAST	M.Clear	71	75	32	14	11	33	42	10	8	1
	M.Cloudy	29	44	27	16	12	13	23	11	8	1
SOUTH	M.Clear	20	59	78	75	46	29	81	93	69	7
	M.Cloudy	11	37	55	49	28	12	40	51	35	3
WEST	M.Clear	7	12	14	49	78	4	9	17	48	10
	M.Cloudy	6	13	16	35	44	3	9	14	26	4
M.Clear	(% hrs)	57	55	53	47	49	40	38	40	38	38

Wind Summary - December, January, and February

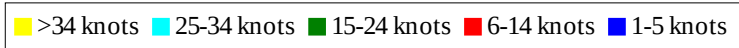
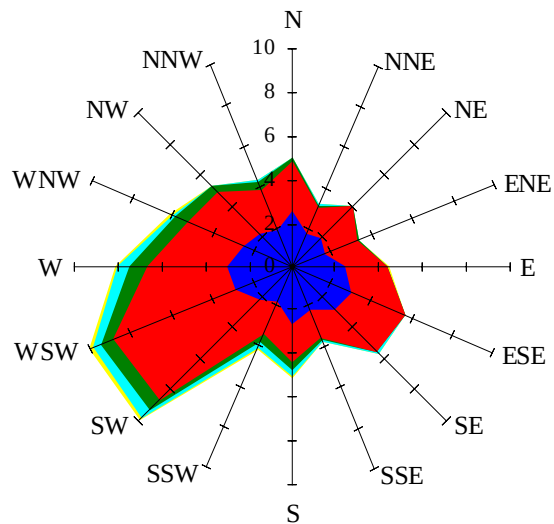
Labels of Percent Frequency on North Axis



Percent Calm = 25.51

Wind Summary - March, April, and May

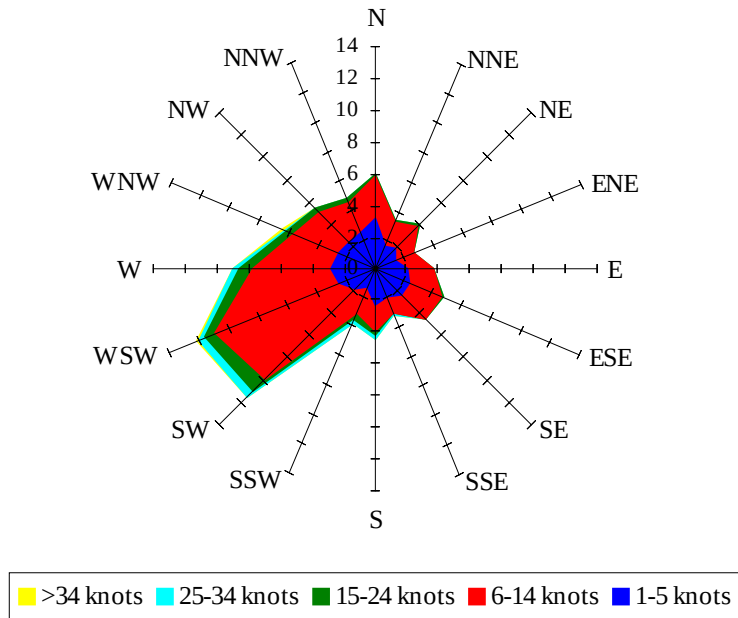
Labels of Percent Frequency on North Axis



Percent Calm = 13.04

Wind Summary - June, July, and August

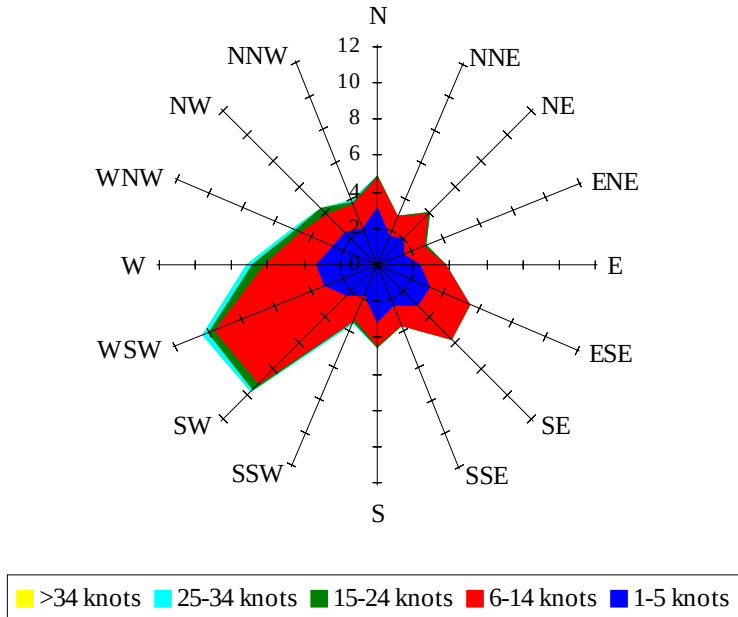
Labels of Percent Frequency on North Axis



Percent Calm = 11.35

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 19.04