

COEUR D'ALENE ID

Latitude = 47.77 N

Longitude = 116.80 W

Period of Record = 1979 to 1996

WMO No. 727834

Elevation = 2320 feet

Average Pressure = 27.55 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	64	49	7.2	W
0.4% Occurrence	92	64	52	6.8	N
1.0% Occurrence	88	63	52	7.1	SW
2.0% Occurrence	85	62	51	7.1	SW
Mean Daily Range	16	-	-	-	-
97.5% Occurrence	14	12	8	11.3	NNE
99.0% Occurrence	9	8	7	8.6	NNE
99.6% Occurrence	3	2	5	9.4	NNE
Median of Extreme Lows	4	2	5	9.5	NNE
	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	68	88	77	6.7	N
0.4% Occurrence	66	85	70	6.0	N
1.0% Occurrence	64	83	64	6.6	N
2.0% Occurrence	63	82	61	6.9	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	90	78	0.56	3.7	NE
0.4% Occurrence	81	73	0.50	6.0	N
1.0% Occurrence	73	72	0.45	7.5	SE
2.0% Occurrence	68	71	0.42	6.4	SE
Air Conditioning/ Humid Area Criteria	# of Hours	T ≥ 93°F	T ≥ 80°F	T _{wb} ≥ 73°F	T _{wb} ≥ 67°F
		27	387	0	28

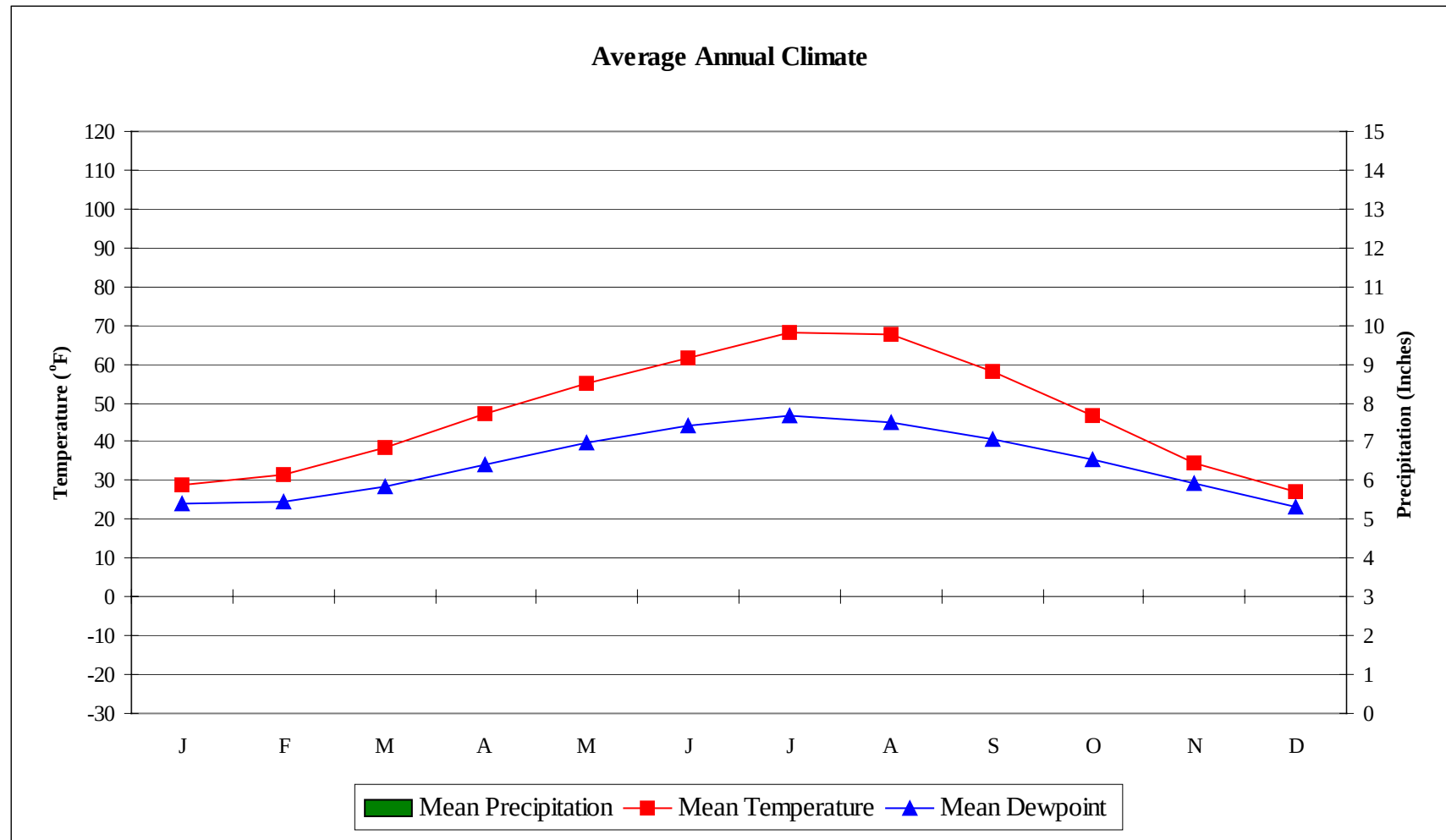
Other Site Data

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	1.0	90	0.0 + 0.3
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 (#)
48.8	N/A	N/A	44

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

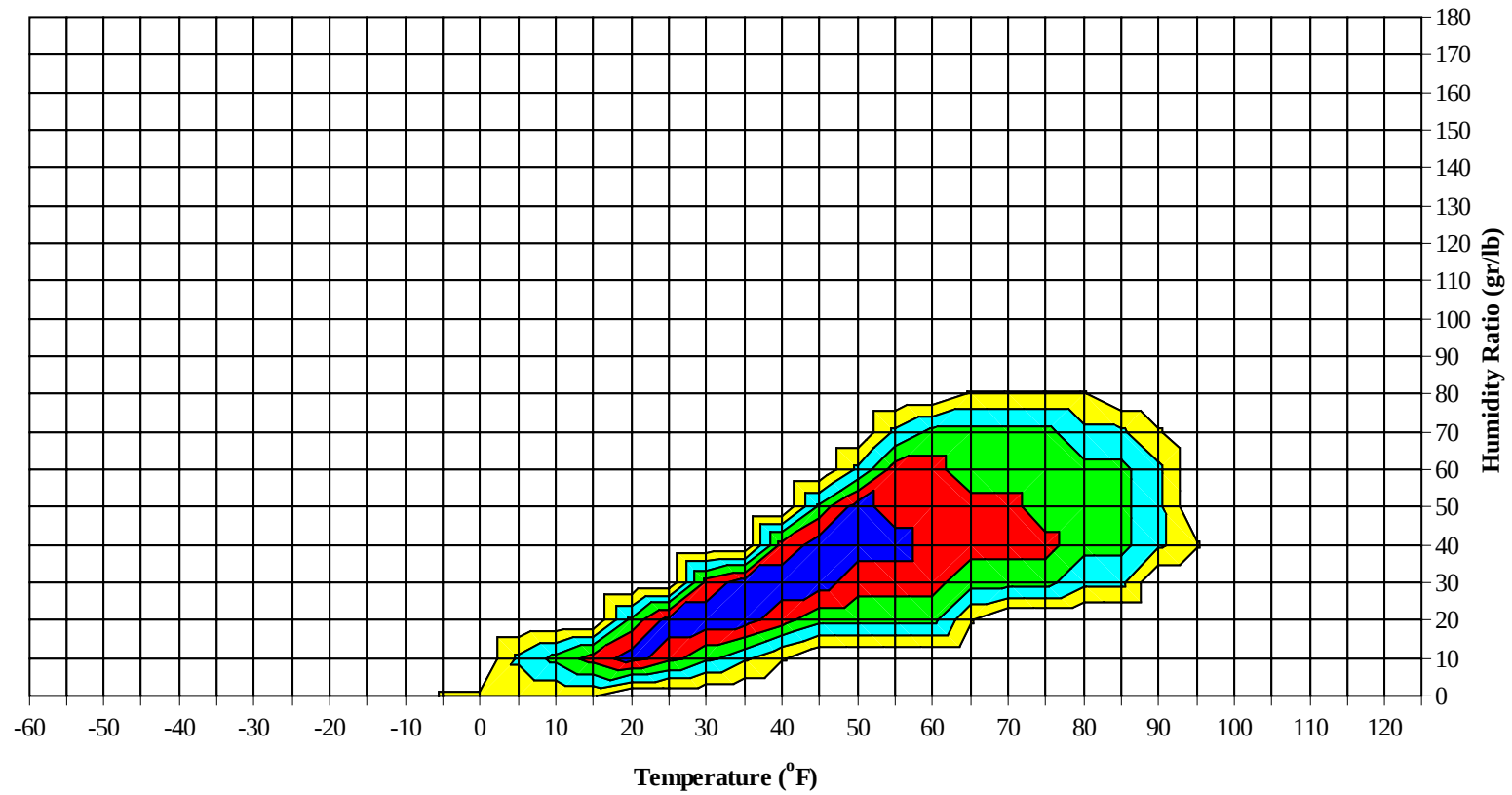
COEUR D'ALENE ID

WMO No. 727834



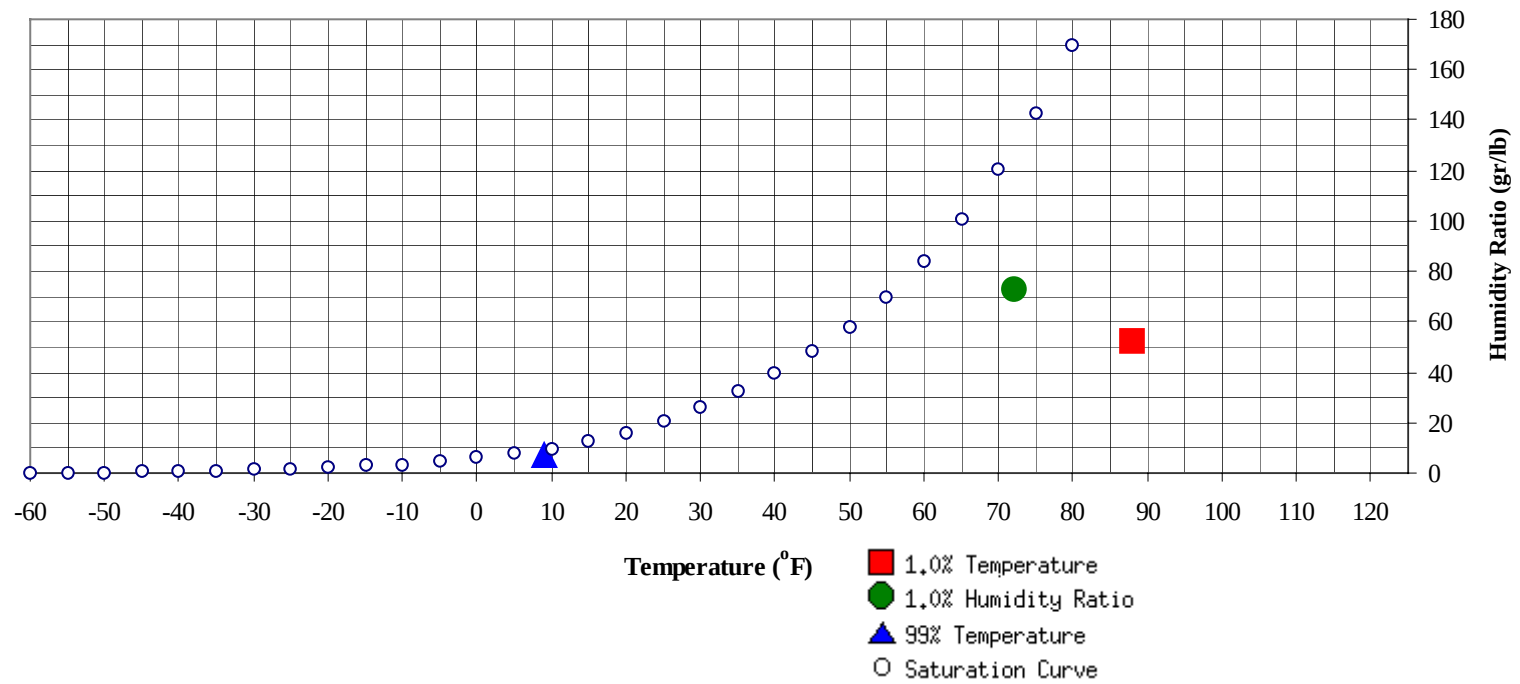
No Precipitation Data Available

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

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)
	9	6.8	3.2		72.8	72	61.7	56	28.6

1.0% Dry Bulb	(°F)	MCHR (gr/lb)	MCWB (°F)	Enthalpy (btu/lb)
	88	52.6	62.9	29.4

COEUR D'ALENE ID

WMO No. 727834

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1979 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															
75 / 79															
70 / 74															
65 / 69												1	0	1	49.0
60 / 64							0		0	50.0		4	1	5	47.6
55 / 59		0		0	49.0		2	0	2	48.3	0	13	6	19	45.3
50 / 54		1	1	2	46.8	1	6	2	10	44.4	0	30	14	44	43.2
45 / 49	1	5	1	8	42.7	5	16	12	33	41.7	4	50	34	88	40.8
40 / 44	10	22	14	46	38.9	13	36	27	76	38.4	27	68	55	150	37.7
35 / 39	32	62	48	142	34.8	41	61	56	158	34.3	70	51	66	187	33.9
30 / 34	76	63	67	206	30.7	64	44	55	163	30.4	72	20	42	135	29.8
25 / 29	47	42	45	133	25.5	32	25	19	76	25.1	41	6	18	65	25.1
20 / 24	36	32	33	101	20.5	25	15	22	63	20.4	21	2	7	30	19.6
15 / 19	19	12	17	48	15.4	11	10	15	36	14.8	10	2	2	15	15.9
10 / 14	18	5	12	35	10.8	17	5	8	30	10.1	1	1	1	3	11.9
5 / 9	6	3	6	15	6.0	6	2	4	11	5.6	1	0	1	2	6.2
0 / 4	2	2	2	6	1.4	5	1	2	8	0.7	0			0	
-5 / -1	1	0	1	2	-4.2	4	1	0	4	-3.6	0			0	-2.0
-10 / -6	0	0	0	0	-6.3	1	1	1	3	-7.8	0			0	-5.0
-15 / -11						0		0	0	-11.8					

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.

COEUR D'ALENE ID

WMO No. 727834

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1979 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															
95 / 99						0			0	69.0		1		1	65.5
90 / 94						2	0		2	67.6		1	1	3	66.1
85 / 89		0	0	0	60.2	3	1		4	63.3		10	6	16	63.7
80 / 84		1	0	1	60.6		9	4	13	60.3		20	12	32	61.2
75 / 79		2	0	2	56.1	0	14	8	22	58.1	1	31	19	52	58.9
70 / 74		7	3	9	55.2	1	20	12	33	55.9	3	38	19	61	56.9
65 / 69	0	13	8	20	52.4	4	30	20	54	53.2	15	42	27	83	54.8
60 / 64	1	26	11	39	49.2	11	36	27	75	50.7	30	36	35	102	52.7
55 / 59	4	36	20	59	46.8	24	51	42	117	48.3	45	30	39	114	50.1
50 / 54	13	52	33	98	43.8	50	44	57	151	45.9	68	22	48	138	47.5
45 / 49	41	57	55	153	41.3	73	29	47	150	43.1	49	7	25	81	43.9
40 / 44	66	36	68	170	38.2	53	9	22	85	39.2	24	1	6	32	40.0
35 / 39	76	9	35	120	34.4	22	1	7	30	34.7	4		1	6	36.1
30 / 34	34	1	8	43	30.5	7		1	8	31.1	0			0	32.3
25 / 29	5		1	6	26.5	1		0	1	27.1					
20 / 24	0			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.

COEUR D'ALENE ID

WMO No. 727834

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1979 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		0		0											
95 / 99		3	1	4	65.9		4	1	5	64.3		0	0	0	61.5
90 / 94		15	11	25	63.9		14	8	22	63.7		1	0	1	61.7
85 / 89		29	20	49	62.1		24	19	43	62.0		5	3	8	59.1
80 / 84	0	40	24	64	60.9		38	20	58	60.4		17	5	22	58.4
75 / 79	3	41	22	66	59.5	1	49	29	78	58.2		24	10	34	57.4
70 / 74	18	42	26	86	57.9	11	44	29	84	56.6	0	33	14	47	55.0
65 / 69	35	32	33	100	55.8	28	35	37	100	55.3	3	39	21	63	52.9
60 / 64	47	27	30	104	53.9	53	24	35	113	53.5	13	43	42	98	51.2
55 / 59	64	16	46	126	51.5	67	10	35	113	51.0	38	38	47	122	49.1
50 / 54	55	5	29	89	48.2	47	3	18	68	47.4	60	26	43	129	46.5
45 / 49	22	0	5	28	44.2	24	1	12	38	43.7	60	13	34	107	43.7
40 / 44	3		0	3	40.0	11	1	4	16	40.0	42	1	17	60	39.4
35 / 39						6		0	6	36.2	13		4	17	34.8
30 / 34						0			0	32.0	9		1	10	30.6
25 / 29											1			1	26.8
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.

COEUR D'ALENE ID

WMO No. 727834

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1979 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		0		0	62.0										
80 / 84		1		1	60.6										
75 / 79		4	0	4	57.2										
70 / 74		7	3	9	55.2										
65 / 69	0	14	4	18	53.2		0		0	51.0					
60 / 64	1	28	9	38	50.0		1		1	49.2					
55 / 59	6	42	19	66	47.4		2	1	4	49.3					
50 / 54	15	52	35	101	45.4	5	13	6	23	46.0			0	0	43.3
45 / 49	43	50	58	151	42.5	16	29	19	65	42.7	1	2	2	6	42.9
40 / 44	67	32	54	153	38.8	19	47	30	95	38.5	10	16	11	37	38.8
35 / 39	64	13	39	116	34.6	48	60	55	163	34.5	26	37	31	94	34.4
30 / 34	33	5	19	56	30.2	74	55	71	200	30.5	59	67	63	189	30.6
25 / 29	18	1	8	26	25.4	49	19	32	100	25.9	59	59	59	178	25.8
20 / 24	2	1	3	6	20.1	14	4	14	32	20.9	36	30	32	99	21.0
15 / 19	0	0		0	16.8	8	2	5	15	15.9	24	17	22	64	16.1
10 / 14						2	5	2	9	10.9	20	10	15	45	11.1
5 / 9						2	3	5	10	5.7	7	5	6	17	6.4
0 / 4						2	0	1	3	1.7	1	2	3	7	1.7
-5 / -1						0	0	0	0	-1.7	2	1	2	5	-3.6
-10 / -6						0			0		1	0	1	2	-6.3
-15 / -11													0	0	

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.

COEUR D'ALENE ID

WMO No. 727834

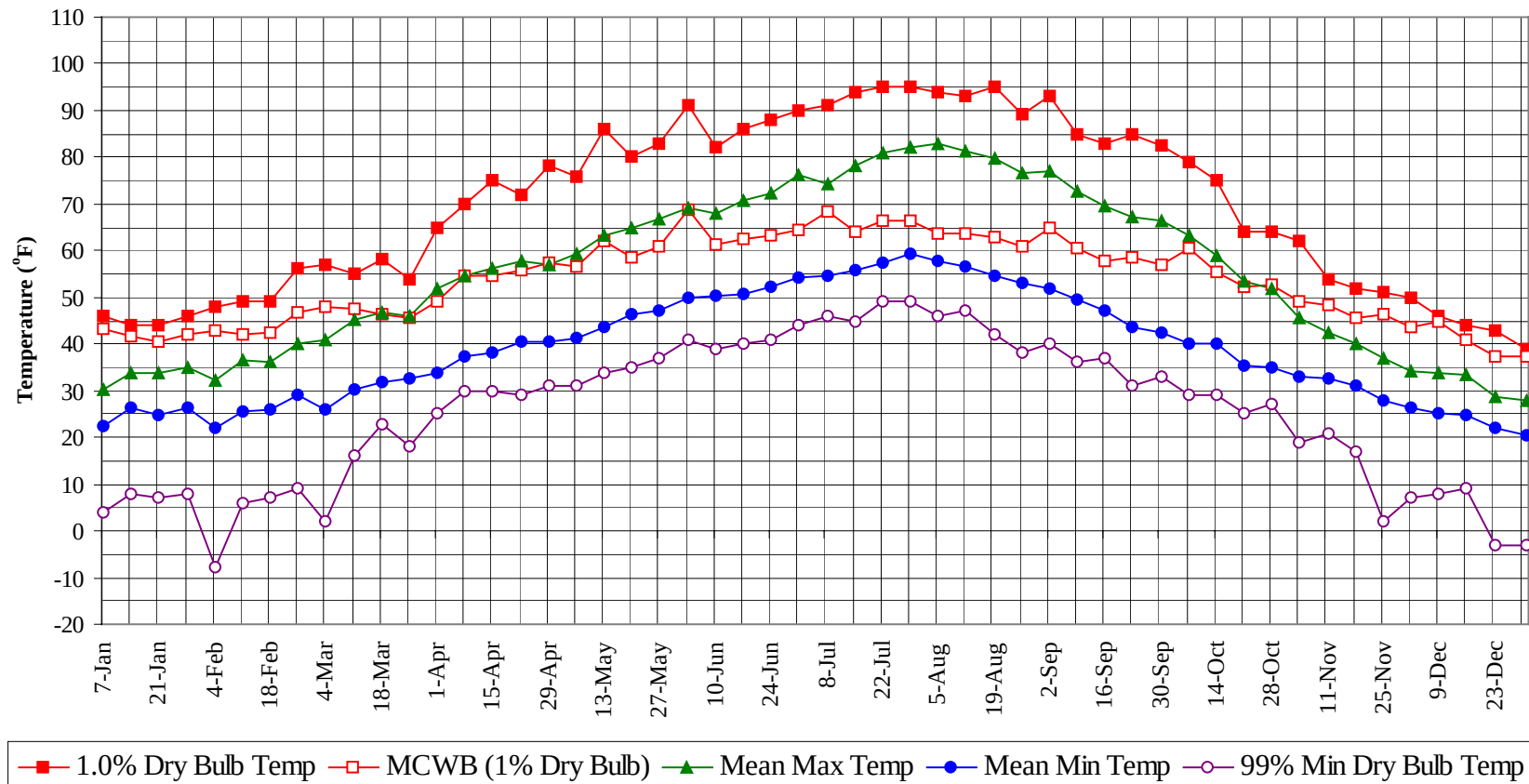
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)

Period of Record = 1979 to 1996

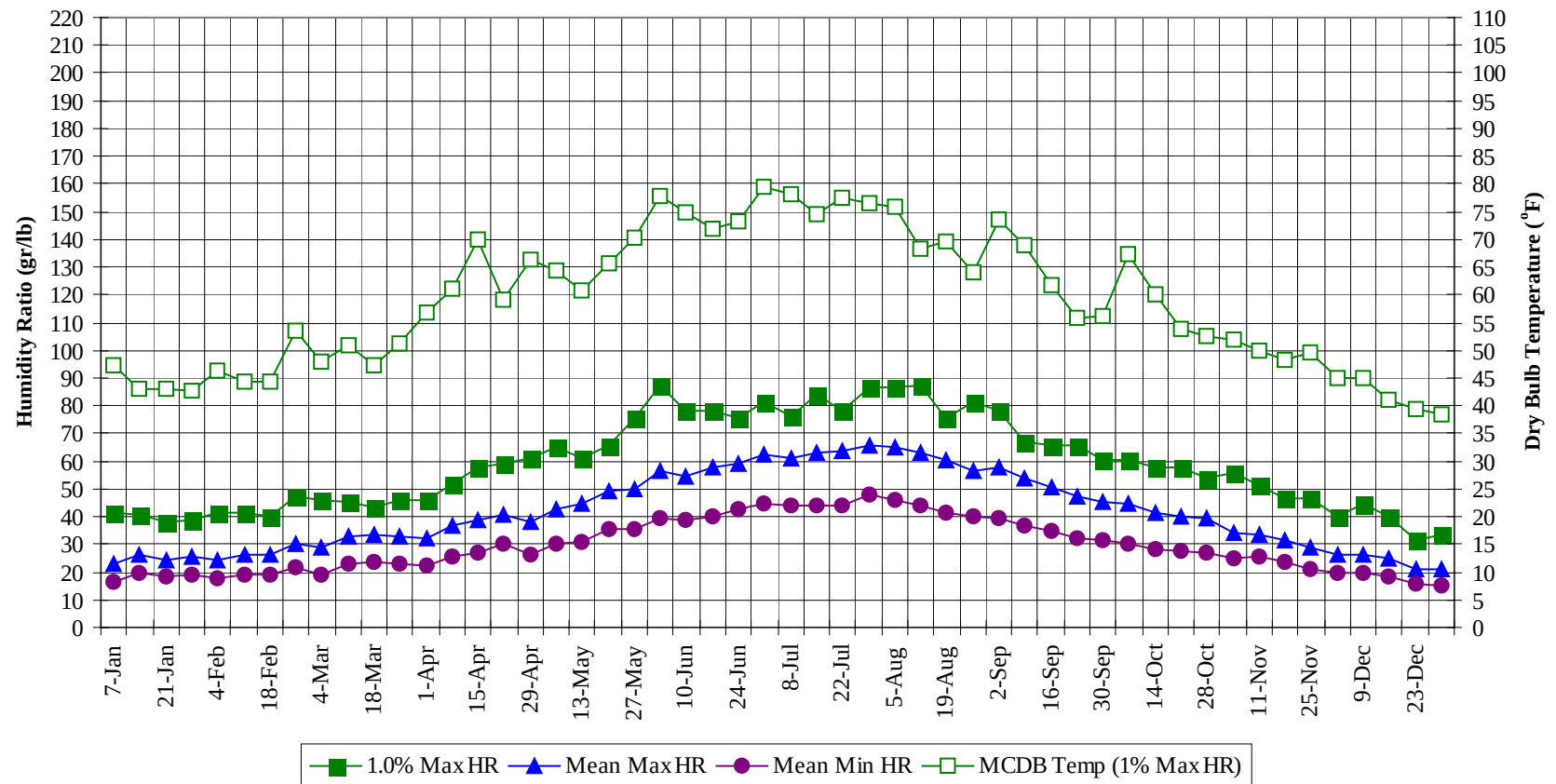
Annual Totals					
Temperature Range (°F)	Hour Group (LST)			Total Obs	M C W B (°F)
	01 To 08	09 To 16	17 To 00		
100 / 104	0			0	
95 / 99	7			2	9 65.0
90 / 94	30			17	47 64.0
85 / 89	67			42	109 62.2
80 / 84	0	118	58	176	60.5
75 / 79	5	157	77	239	58.5
70 / 74	32	183	92	307	56.6
65 / 69	82	197	130	409	54.4
60 / 64	150	216	169	536	52.0
55 / 59	238	233	228	700	49.2
50 / 54	306	250	263	819	46.0
45 / 49	338	264	293	895	42.5
40 / 44	342	277	315	934	38.6
35 / 39	403	306	371	1080	34.4
30 / 34	438	270	369	1077	30.5
25 / 29	265	161	211	636	25.6
20 / 24	139	89	128	355	20.6
15 / 19	76	47	70	193	15.7
10 / 14	61	27	44	133	10.8
5 / 9	23	13	22	58	6.0
0 / 4	10	5	10	26	1.3
-5 / -1	7	2	5	13	-3.6
-10 / -6	3	2	2	7	-7.2
-15 / -11	0		1	1	-11.8

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.

Annual Summary of Temperatures

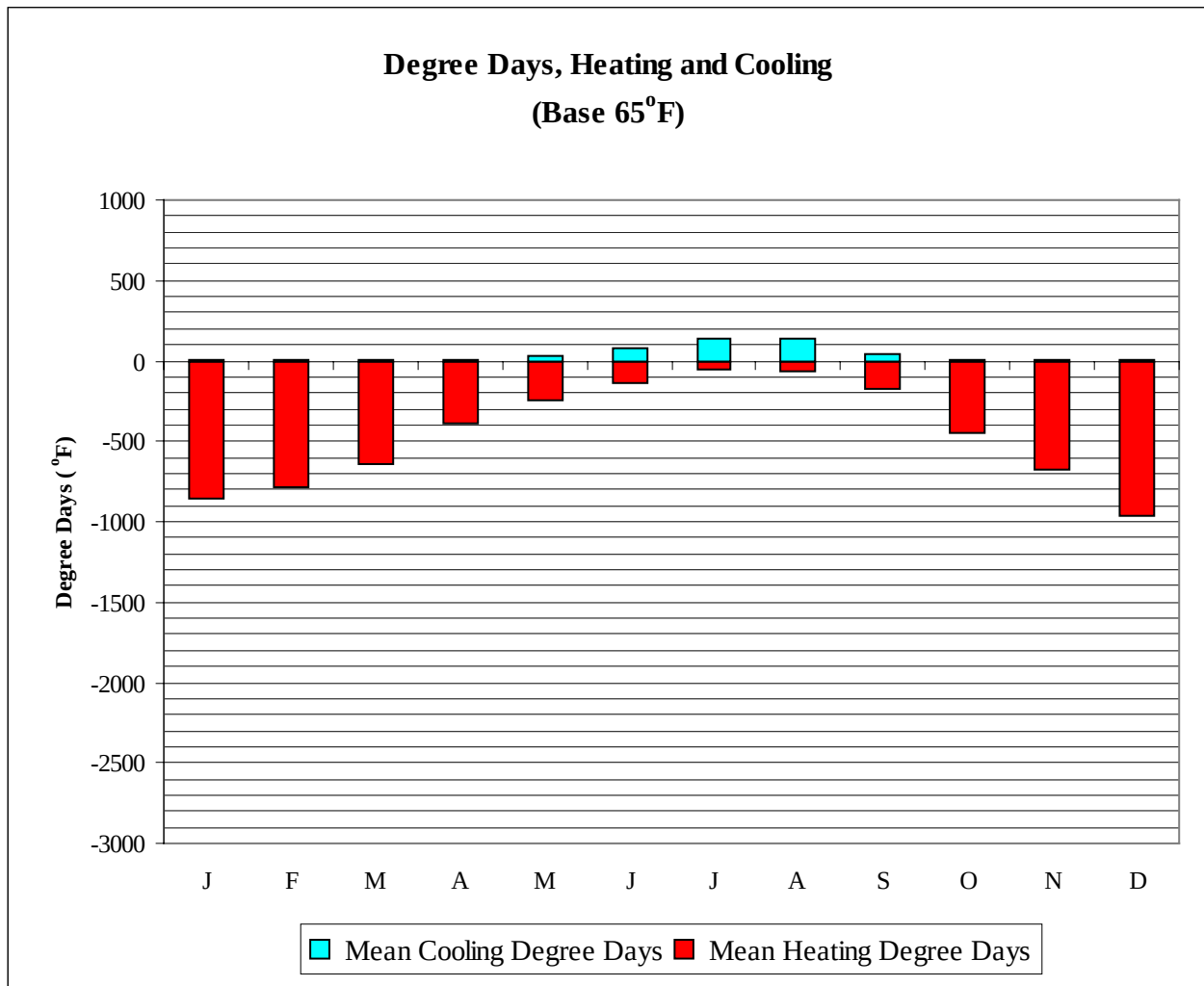


Long Term Humidity and Dry Bulb Temperature Summary



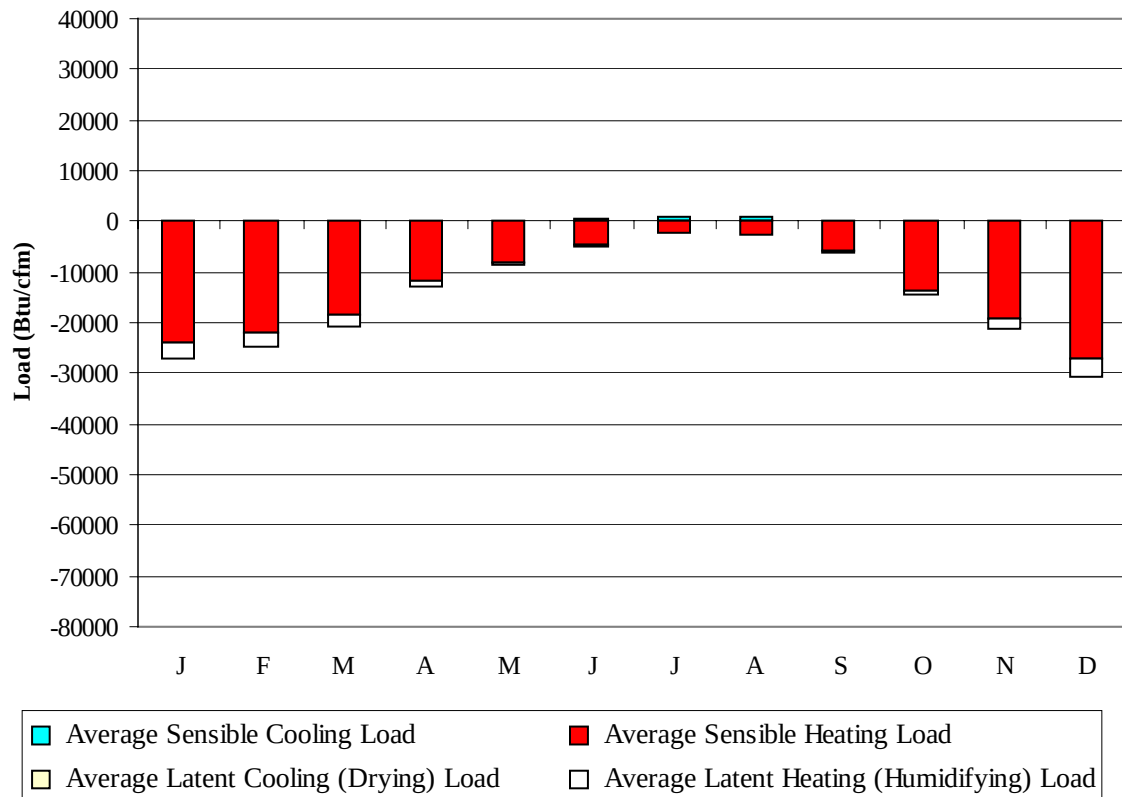
COEUR D'ALENE ID**WMO No. 727834****Long Term Dry Bulb Temperature and Humidity Summary**

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	46.0	43.3	30.2	22.3	4.0	41.3	47.3	22.7	16.6
14-Jan	44.0	41.8	33.9	26.2	8.0	40.6	42.9	26.1	19.4
21-Jan	44.0	40.4	33.6	24.8	7.0	37.8	42.9	24.6	18.3
28-Jan	46.0	42.0	34.8	26.4	8.0	38.5	42.7	25.9	19.1
4-Feb	48.0	42.8	32.2	21.9	-8.0	41.3	46.3	24.4	18.0
11-Feb	49.0	41.9	36.7	25.7	6.0	41.3	44.4	26.1	18.8
18-Feb	49.0	42.4	36.3	25.8	7.0	39.9	44.3	26.1	19.1
25-Feb	56.0	46.8	40.2	29.0	9.0	47.6	53.5	30.0	21.6
4-Mar	57.0	48.0	40.9	26.0	2.0	46.2	47.8	28.7	19.3
11-Mar	55.0	47.6	45.1	30.4	16.0	45.5	51.0	32.5	22.7
18-Mar	58.0	46.4	46.9	31.9	23.0	43.4	47.3	33.4	23.5
25-Mar	54.0	45.7	46.1	32.6	18.0	46.2	51.2	32.7	23.2
1-Apr	65.0	49.0	52.0	33.8	25.0	46.2	56.7	32.3	22.3
8-Apr	70.0	54.8	54.5	37.3	30.0	51.8	61.0	37.1	25.8
15-Apr	75.0	54.8	56.2	38.0	30.0	58.1	70.1	39.1	27.1
22-Apr	72.0	55.6	57.7	40.5	29.0	58.8	59.1	41.0	30.2
29-Apr	78.0	57.5	56.8	40.6	31.0	60.9	66.3	38.3	26.3
6-May	76.0	56.5	59.2	41.3	31.0	65.1	64.5	42.8	30.1
13-May	86.0	62.0	63.4	43.7	34.0	60.9	60.8	44.9	30.8
20-May	80.0	58.4	64.9	46.5	35.0	65.8	65.8	48.9	35.4
27-May	83.0	61.0	67.0	47.0	37.0	75.6	70.2	50.2	35.4
3-Jun	91.0	68.7	69.0	49.9	41.0	87.5	77.7	56.3	39.7
10-Jun	82.0	61.2	67.8	50.2	39.0	78.4	75.0	54.8	38.8
17-Jun	86.0	62.4	70.7	50.8	40.0	78.4	71.9	58.0	40.0
24-Jun	88.0	63.4	72.3	52.3	41.0	75.6	73.1	59.1	42.7
1-Jul	90.0	64.6	76.2	54.4	44.0	81.2	79.3	62.1	44.8
8-Jul	91.0	68.5	74.1	54.7	46.0	76.3	78.1	60.9	44.1
15-Jul	94.0	64.0	78.2	55.6	45.0	84.0	74.4	63.0	43.8
22-Jul	95.0	66.5	80.9	57.4	49.0	78.4	77.6	63.6	44.1
29-Jul	95.0	66.3	82.2	59.3	49.0	86.8	76.6	65.8	47.7
5-Aug	94.0	63.8	82.7	57.8	46.0	86.8	75.9	64.8	45.9
12-Aug	93.0	63.8	81.3	56.8	47.0	87.5	68.4	62.8	44.0
19-Aug	95.0	62.7	79.9	54.5	42.0	75.6	69.6	60.1	41.5
26-Aug	89.0	60.8	76.7	52.9	38.0	81.2	64.1	56.8	39.8
2-Sep	93.0	65.0	76.9	51.9	40.0	78.4	73.5	57.5	39.3
9-Sep	85.0	60.6	72.6	49.5	36.0	67.2	69.1	53.7	36.7
16-Sep	83.0	57.8	69.4	47.2	37.0	65.8	61.8	50.4	34.9
23-Sep	85.0	58.4	67.2	43.6	31.0	65.8	55.8	47.5	32.4
30-Sep	82.5	57.0	66.6	42.5	33.0	60.2	56.1	45.4	31.4
7-Oct	79.0	60.5	63.1	40.2	29.0	60.2	67.3	44.5	30.4
14-Oct	75.0	55.5	59.0	40.0	29.0	58.1	60.0	41.3	28.5
21-Oct	64.0	52.3	53.6	35.5	25.0	58.1	54.0	40.1	27.3
28-Oct	64.0	52.5	51.9	35.0	27.0	53.9	52.7	39.3	27.0
4-Nov	62.0	49.0	45.5	32.9	19.0	56.0	52.0	34.4	25.0
11-Nov	54.0	48.3	42.4	32.7	21.0	51.1	50.0	33.3	25.5
18-Nov	52.0	45.8	40.0	30.9	17.0	46.9	48.3	31.8	23.5
25-Nov	51.0	46.3	37.0	27.9	2.0	46.9	49.7	28.9	21.2
2-Dec	50.0	43.8	34.3	26.4	7.0	39.9	45.0	26.1	19.6
9-Dec	46.0	45.0	33.8	25.2	8.0	44.8	45.0	26.2	19.6
16-Dec	44.0	41.0	33.3	24.7	9.0	39.9	40.9	25.0	18.4
23-Dec	43.0	37.3	28.9	21.8	-3.0	31.5	39.4	21.3	16.1
31-Dec	39.0	37.4	27.9	20.5	-3.0	33.6	38.5	20.8	15.2



	Mean Cooling Degree Days (°F)	Mean Heating Degree Days (°F)
JAN	0	856
FEB	0	779
MAR	0	636
APR	5	386
MAY	30	247
JUN	78	135
JUL	141	57
AUG	132	66
SEP	38	170
OCT	6	448
NOV	0	675
DEC	0	968
ANN	431	5423

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	-24084	0	-2967
FEB	0	-22054	0	-2659
MAR	0	-18499	0	-2161
APR	12	-11902	0	-1058
MAY	162	-8079	3	-335
JUN	469	-4786	8	-82
JUL	1103	-2152	3	-35
AUG	1101	-2521	12	-54
SEP	223	-5742	0	-274
OCT	19	-13579	0	-934
NOV	0	-19277	0	-1951
DEC	0	-27085	0	-3611
ANN	3089	-159760	26	-16121

Average Annual Solar Radiation – Nearest Available Site

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

City: SPOKANE
 State: WA
 WBAN No: 24157
 Lat(N): 47.63
 Long(W): 117.53
 Elev(ft): 2366

Stn Type: Secondary
 SHADING GEOMETRY IN DIMENSIONLESS UNITS
 Window: 1
 Overhang: 0.754
 Vert Gap: 0.326

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	410	650	1030	1460	1830	2070	2210	1880	1390	860	430	330	1220
	Std Dev	38	81	102	119	159	158	131	161	133	80	38	34	36
	Minimum	330	470	840	1190	1520	1800	1860	1580	1160	710	370	260	1160
	Maximum	500	790	1330	1680	2070	2360	2450	2140	1650	1020	500	430	1300
	Diffuse	290	390	500	660	750	770	630	550	440	340	280	240	490
Clear Day	Global	610	970	1510	2110	2540	2710	2610	2230	1680	1100	670	510	1610
NORTH	Global	160	220	310	420	560	660	630	470	330	230	160	130	360
	Diffuse	160	220	310	410	490	530	500	430	330	230	160	130	330
Clear Day	Global	130	190	270	400	600	740	670	460	300	210	140	110	350
EAST	Global	280	430	700	970	1140	1240	1350	1200	950	600	290	230	780
	Diffuse	190	270	380	510	590	630	600	530	420	290	190	160	400
Clear Day	Global	560	810	1120	1420	1590	1650	1610	1460	1200	870	600	490	1120
SOUTH	Global	680	900	1090	1090	1010	980	1100	1240	1350	1190	680	580	990
	Diffuse	320	380	460	550	580	590	560	530	470	380	290	270	450
Clear Day	Global	1810	2000	1980	1670	1360	1210	1260	1510	1820	1950	1810	1700	1670
WEST	Global	290	460	680	900	1100	1230	1330	1200	930	610	310	240	780
	Diffuse	200	280	390	510	600	640	600	540	420	300	200	170	400
Clear Day	Global	560	810	1120	1420	1590	1650	1610	1460	1200	870	600	490	1120

Average Annual Solar Heat and Illumination – Nearest Available Site

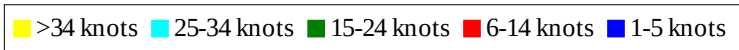
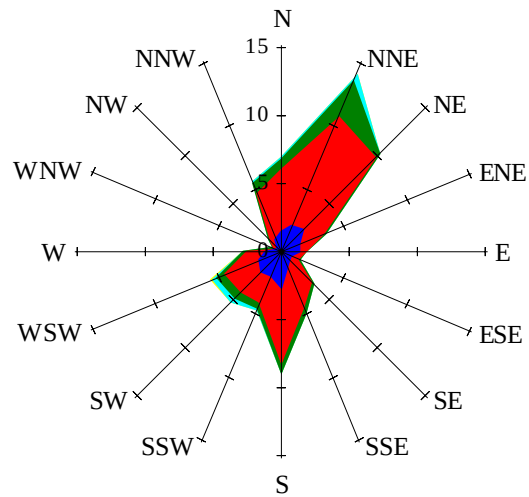
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

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	260	430	710	1040	1320	1500	1600	1350	980	570	280	210	860
NORTH	Unshaded	110	150	210	290	370	430	400	310	230	160	110	91	240
	Shaded	84	120	170	240	310	360	350	270	200	140	86	70	200
EAST	Unshaded	190	300	500	690	820	890	970	860	680	420	200	160	560
	Shaded	160	240	400	550	640	690	760	690	550	350	160	130	450
SOUTH	Unshaded	510	660	770	740	650	620	690	810	940	870	510	440	690
	Shaded	480	590	570	400	330	340	330	370	590	730	470	410	470
WEST	Unshaded	200	320	480	640	790	880	960	860	670	430	210	160	550
	Shaded	160	260	390	510	620	690	750	680	550	360	180	140	440

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	63	68	52	18	54	84	97	90	65
	M.Cloudy	23	41	43	34	13	36	57	70	66	46
NORTH	M.Clear	9	12	13	11	6	12	15	16	15	13
	M.Cloudy	9	14	14	12	6	12	16	18	18	14
EAST	M.Clear	74	49	13	11	6	84	68	24	15	13
	M.Cloudy	29	28	14	12	6	45	44	23	18	14
SOUTH	M.Clear	48	81	89	67	23	13	44	59	51	25
	M.Cloudy	21	40	44	33	11	13	32	44	39	20
WEST	M.Clear	9	12	26	67	56	12	15	16	55	82
	M.Cloudy	9	14	20	34	22	12	16	18	41	50
M.Clear	(% hrs)	25	24	20	17	20	41	39	32	31	34
		Sept					Dec				
		9am	11am	1pm	3pm	5pm	9am	11am	1pm	3pm	5pm
HORIZ.	M.Clear	31	63	77	68	40	9	29	31	15	0
	M.Cloudy	19	41	52	47	26	6	18	19	10	0
NORTH	M.Clear	8	12	14	13	9	4	8	8	5	0
	M.Cloudy	8	13	15	14	9	3	8	8	5	0
EAST	M.Clear	73	66	21	13	9	30	30	8	5	0
	M.Cloudy	30	37	19	14	9	8	12	8	5	0
SOUTH	M.Clear	29	67	84	74	39	30	75	80	46	0
	M.Cloudy	15	38	52	45	22	8	21	23	13	0
WEST	M.Clear	8	12	14	56	76	4	8	22	37	0
	M.Cloudy	8	13	15	36	38	3	8	11	11	0
M.Clear	(% hrs)	52	52	47	46	46	13	14	15	15	17

Wind Summary - December, January, and February

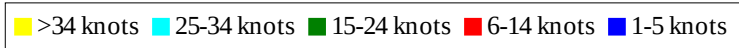
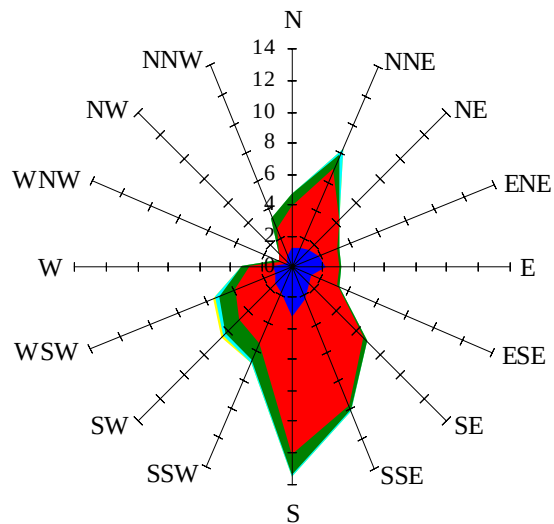
Labels of Percent Frequency on North Axis



Percent Calm = 20.46

Wind Summary - March, April, and May

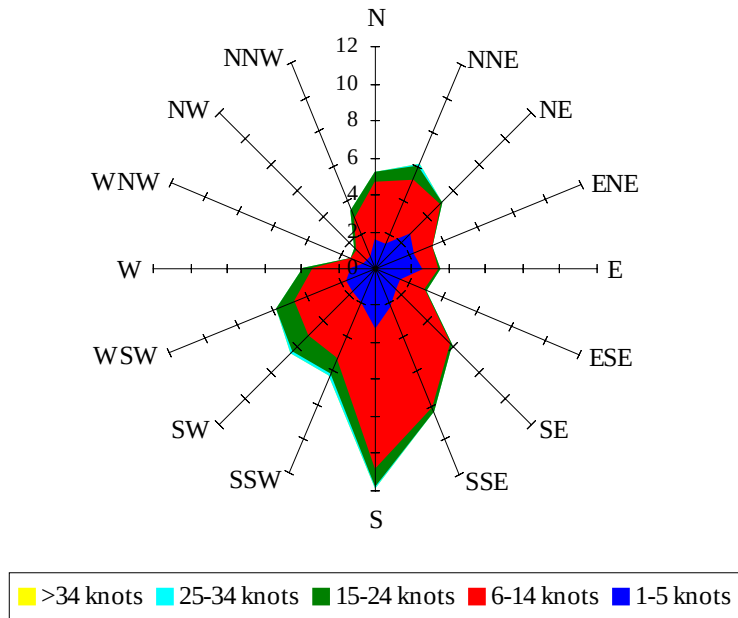
Labels of Percent Frequency on North Axis



Percent Calm = 16.67

Wind Summary - June, July, and August

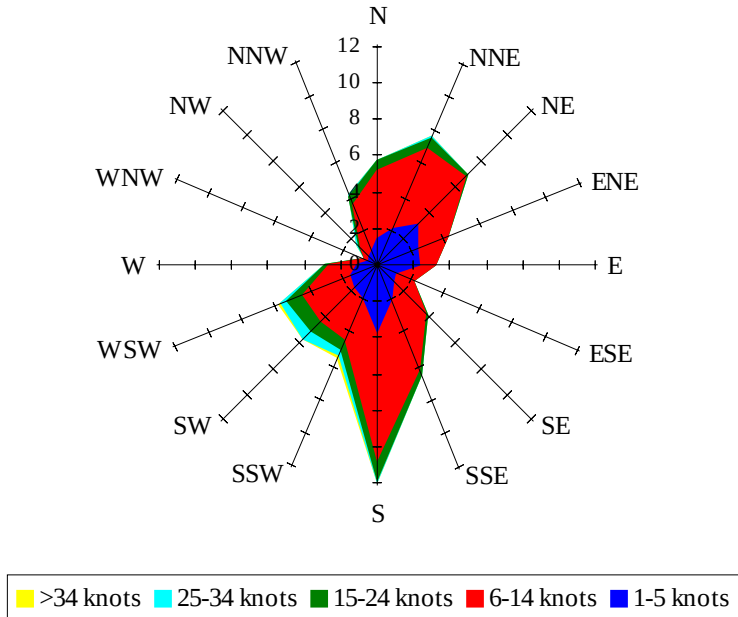
Labels of Percent Frequency on North Axis



Percent Calm = 19.61

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 22.18