WIND POWER

OREGON STATE UNIVERSITY

Department of Atmospheric Sciences

REPORT NO. BPA 79-4

October 1979

NETWORK WIND POWER OVER THE PACIFIC NORTHWEST

APPENDIX 2

WIND STATISTICS SUMMARIES FOR THE WIND POWER DATA STATIONS

Prepared by

E. WENDELL HEWSON and ROBERT W. BAKER
PRINCIPAL INVESTIGATORS

AC80-78BP01310

Submitted to

BONNEVILLE POWER ADMINISTRATION

Portland, Oregon

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Monthly Mean Wind Speed Summaries

Mean monthly wind speeds (mph) for the period June 1978 - May 1979

Station	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	AVG
Gold Beach	8.0	12.8	11.0	11.9	9.1	12.1	12.1	12.4	16.1	10.6	11.1	M	11.6
Hill Top								7.0	21.7	M	9.7	M	12.8
Cape Blanco CGLS	11.5	14.8	12.4	11.2	12.0	M	16.0	13.1	21.5	11.7	14.4	17.4	14.4
Cape Blanco BPA	14.5	20.2 ¹	19.4 ¹	17.1 ¹	17.8	19.1	17.0	15.7	28.5	17.7	13.9	21.4	18.5
Langlois Mtn.	11.6	14.3	12.4	12.7	10.5	13.4	13.8	13.0	24.5	12.9	11.0	16.7	13.9
Prairie Mtn.	8.3	7.0	17.9	21.1	12.8	19.2	17.4	21.9 ¹	17.4	15.4	12.4	15.5	15.3
Mary's Peak				18.4 ¹	M	19.2 ¹	22.8 ¹	M	M	M	Removed		19.5 ¹
Kings Valley				3.6	4.0	4.3	3.8	4.9	5.2	4.7	5.0	4.8	4.5
Sheridan						3.6	2.7	4.0	3.1	4.3	6.0	8.1	4.5
Newberg Ridge	6.8	6.6	6.7	6.4	11.4	8.4	10.5	14.9	11.4	10.3	8.3	7.9	9.1
Col. River Jetty		8.7	9.2 ¹	M	M	M	13.9 ¹	19.2 ¹	M	M	M	M	12.4 ¹
Pioneer A.P.											6.6 ¹	8.8 ¹	7.7 ¹
Biddle Butte		6.5 ¹	10.8 ¹	8.5 ¹	17.3 ¹	19.3 ¹	22.8 ¹	44.7 ¹	M	M	Removed		16.1 ¹
Mt. Hood Meadows (yellow chair)	9.6	6.7	8.5	11.7	9.4	14.9	10.5	M	M	9.6	6.3		9.7
Mt. Hood Meadows							12.5	8.1	10.8	9.6			10.1
Wind Mtn.	14.2	M	M	M	M	11.6	vandalized and removed						12.9
Augspurger Mtn.	M	21.6	16.8	16.5 ¹	19.2 ¹	18.2	21.1	27.0 ¹	M	14.2 ¹	18.0 ¹	20.0	19.1 ¹
Mosier	12.9	12.9	11.3	9.5	8.7	7.2	7.2	7.2	7.2	9.7	11.4	11.4	9.7
Thunderbird Ranch	7.6	7.3	12.5	M	M	M	M	M	M	M	M	M	9.1
KCTV	14.4	16.7 ¹	M	M	M	M	M	M	17.7 ¹	15.7	15.7	15.0	14.9 ¹
Robbin's Farm				11.6	10.5	11.6	6.9	M	6.9	13.9	13.9	18.1	9.9
Seven Mile Bell	21.7	21.0	16.0	15.7	14.0	8.9	14.0	8.0	10.0	11.0	15.0	14.3	14.1
Seven Mile Tower 50'	M	15.7 ¹	14.6 ¹	12.2 ¹	12.2 ¹	10.0	15.5	8.4	11.8 ¹	12.7	18.8	23.4 ¹	13.8 ¹
Seven Mile Tower 150'					15.7	12.3	17.4	9.9	10.3	15.0	24.6 ¹	23.3 ¹	15.3

¹ Data recovery less than 85%

M Missing data

Station	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	AVG.
Ortley Pt.	19.3	19.7	16.6	14.2	13.3	10.9	9.5	9.5	M	M	M	M	14.1
Sauter's Ranch	23.9	24.7	25.8	M	6.7	6.1	5.8	4.2	M	M	M	M	13.9
Biggs	17.0	14.5	13.8	13.6	9.5	9.2	9.7	4.6	9.8	12.0	System removed		11.4
Goldendale Bell	18.3	18.3	16.4	14.1	System removed								16.7
Juniper Pt.			22.5	21.5	18.2	18.2	24.0	14.0	24.6	20.2	23.9	21.0 ¹	20.7
Goodnoe Hills	19.8 ¹	17.6	18.3	16.6	13.5 ¹	7.5 ¹	15.6	6.9 ¹	14.3	15.1	16.7 ¹	19.1	15.6
Roosevelt					11.3 ¹	12.6	14.5	7.5	13.1 ¹	13.7	15.8	16.7 ¹	13.3
Wasco	12.6	12.8	12.1	11.9	9.8	8.9	10.6	6.6	9.7	9.7	13.2	15.5	11.1
Shutter Flats	12.2	12.5	12.5	11.3	9.7	8.5	M	5.6	6.9	9.4	14.0	13.7	10.6
Hurlburt Flats	11.8	8.8	9.1	7.1	4.5	3.1	5.1	5.1	6.3	7.0	7.7	removed	6.9
Boardman	9.4	11.2	M	M	7.8	8.8	9.2	M	8.2	7.7	18.1 ¹	12.9 ¹	9.7
Irrigon	5.4	5.5	7.8	7.6	5.4	7.7	8.5	3.2	8.5	7.6	10.2	9.1	7.2
Kennewick	17.7	16.3	13.7 ¹	15.8 ¹	13.2	17.1 ¹	18.1	6.6	18.8 ¹	12.0	13.3	16.4	14.8 ¹
Sunnyside	15.8	12.8	14.9	16.4	11.9	14.7	14.7	14.7	14.7	14.7	18.2	9.4	14.4
Wanapum Dam	M	13.4	12.7	12.3 ¹	10.6 ¹	M	9.0 ¹	5.4 ¹	9.6	11.4	13.5	16.8	12.0 ¹
Vantage Farms	11.9	14.9	9.2	9.2	6.3	7.7	Tower collapsed and removed						9.7
Mission Ridge								12.3	15.1				13.7
Steven's Pass						8.4	8.0	7.9	6.3	5.7	5.4		7.0
Crystal Mtn.							15.7	13.7	M	13.7			14.5
Bridger Bowl							20.5	20.6	17.5	16.9			18.8
Jackson Hole							21.9	16.2	19.9	14.4			18.0
Sun Valley								10.2	11.9	10.3			10.8
La Grande Elevator	M	4.0 ¹	m	M	M	M	M	M	M	M	M	M	4.0
La Grande Andrews					6.0	10.1	11.4	13.4	14.8	9.9	8.5	11.2	10.7
Haines	7.2	6.5	7.6	7.6	7.6	4.5	7.8	7.2	8.3	6.9	9.2	10.8	7.6
Hot Lakes					12.5	12.3	23.3	M	M	M	M	M	16.0

¹ Data recovery less than 85%

M Missing data

Station	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	AVG
Pumpkin Ridge				3.4	2.9	5.2	8.5	5.8	8.5	6.5	4.5	4.3	5.5
Stinkingwater Pass	7.0	7.0	M	M	M	M	M	M	M	M	M	M	7.0
Burns Butte	12.9	11.8	12.7	13.8	16.5	10.3	16.5	13.4	13.4	13.4	13.4	13.2	13.4
Juniper Ranch	7.4	5.9	M	M	M	7.1	7.1	7.1	6.6	6.6	4.6	M	6.6
Prineville Airport	5.2 ¹	4.9	5.1	5.0 ¹	M	5.9 ¹	4.1	2.5	5.6	22.6 ¹	13.0	22.5 ¹	7.3 ¹
Coyote Hills	13.8	11.8	12.5	17.8	12.6	15.5	16.3	16.3	16.3	16.3	M	M	14.9
Adel	11.0 ¹	12.7 ¹	9.5 ¹	12.5 ¹	11.6	14.4	17.5	M	17.3 ¹	11.6 ¹	M	M	13.2 ¹
Ashland	6.2	5.9	3.6	4.8	4.8	5.1	13.6	8.3	6.5	5.2	5.8	4.9	6.2
Ruby Station	16.0	11.4	14.3	Removed									13.9
Pequop Summit	14.4	11.6	12.7	12.4 ¹	10.6 ¹	12.5	21.8 ¹	14.4	16.8	12.1	17.1	15.2 ¹	13.9
Wells West	14.3	12.4	9.5	11.1	7.4	8.4	14.9	12.2	12.5	11.3	14.6	10.7	11.6
Radar Hill	13.3	10.9	12.1	13.1	10.5	11.4	16.9	12.2	13.0	11.6	14.7	11.3	12.6

¹ Data recovery less than 85%

M Missing data

¹ Data recovery less than 85%

M Missing data

Speed Frequency Distribution Summaries

STATION -- KCIV RADIO

JUNE 1 1979 TO MAY 31 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 14.9

WIND VELOCITY FREQUENCY - MPH
TOTAL HOURS OBSERVED -- 3894

WINDSPD	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	5	.129	3994	100.000
1	3	.077	3889	99.872
2	102	2.619	3896	99.795
3	27	.693	3784	97.175
4	84	2.157	3757	96.482
5	20	.514	3673	94.325
6	180	4.622	3653	93.811
7	38	.976	3473	89.188
8	167	4.289	3435	88.213
9	37	.950	3268	83.924
10	357	9.168	3231	82.974
11	63	1.618	2874	73.806
12	287	7.370	2811	72.188
13	74	1.900	2524	64.818
14	329	8.449	2450	62.917
15	128	3.287	2121	54.468
16	473	12.147	1993	51.181
17	98	2.517	1520	39.034
18	349	8.963	1422	36.518
19	64	1.644	1073	27.555
20	495	12.712	1009	25.912
21	50	1.284	514	13.200
22	132	3.390	464	11.916
23	31	.796	332	8.526
24	126	3.236	301	7.730
25	35	.899	175	4.494
26	71	1.823	140	3.595
27	7	.180	69	1.772
28	20	.514	62	1.592
29	4	.103	42	1.079
30	21	.539	38	.976
31	2	.051	17	.437
32	3	.077	15	.385
35	1	.026	12	.308
36	4	.103	11	.282
38	4	.103	7	.180
40	2	.051	3	.077
42	1	.026	1	.026

STATION: KENNEWICK

JUNE 1 1978 TO MAY 31 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 15.1

WIND VELOCITY FREQUENCY - MPH
TOTAL HOURS OBSERVED -- 6426

WINDSPO	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	301	4.684	6426	100.000
1	44	.747	6125	95.316
2	145	2.256	6077	94.569
3	143	2.225	5932	92.312
4	264	4.108	5789	90.087
5	149	2.319	5525	85.979
6	415	6.458	5376	83.660
7	181	2.817	4961	77.202
8	397	6.178	4780	74.385
9	227	3.533	4383	68.207
10	833	9.851	4156	64.675
11	127	1.976	3523	54.824
12	298	4.637	3346	52.848
13	137	2.132	3098	48.210
14	242	3.766	2961	46.078
15	207	3.221	2719	42.312
16	280	4.357	2512	39.091
17	57	.897	2232	34.734
18	249	3.875	2175	33.847
19	50	.778	1926	29.972
20	244	3.875	1876	29.154
21	61	.949	1627	25.319
22	128	1.992	1566	24.370
23	46	.716	1438	22.378
24	194	3.019	1392	21.662
25	26	.405	1198	18.643
26	166	2.583	1172	18.238
27	61	.949	1006	15.655
28	117	1.821	945	14.786
29	25	.389	828	12.885
30	185	2.879	803	12.496
31	30	.467	618	9.617
32	67	1.043	548	8.150
33	37	.576	521	8.108
34	63	.980	444	7.532
35	27	.420	421	6.552
36	52	.809	394	6.131
37	29	.451	342	5.322
38	37	.576	313	4.871
39	21	.327	276	4.295
40	67	1.043	255	3.968
41	16	.249	188	2.926
42	22	.342	172	2.677
43	23	.358	150	2.334
44	16	.249	127	1.976
45	20	.311	111	1.727
46	23	.358	91	1.416
47	12	.187	68	1.058
48	11	.171	56	.871
49	9	.078	45	.700
50	4	.062	48	.622
51	2	.031	36	.560
52	3	.047	34	.529
53	5	.078	31	.442
54	1	.016	26	.405
55	2	.031	25	.389
56	10	.156	23	.358
57	4	.062	13	.202
58	2	.031	9	.140
59	4	.062	7	.109
60	1	.016	3	.047
61	1	.016	2	.031
62	1	.016	1	.016

STATION -- WELLS NEVADA..

JUNE 1 1978 TO MAY 18 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 13.9

WIND VELOCITY FREQUENCY -- MPH
TOTAL HOURS OBSERVED -- 7590

WIND SPD	HOURS PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	64	.846	7590	100.000
1	66	.870	7541	99.354
2	169	2.227	7475	98.485
3	161	2.121	7306	96.258
4	313	4.124	7145	94.137
5	392	5.138	6832	90.413
6	444	5.877	6480	85.375
7	294	3.874	5996	78.999
8	524	6.904	5702	75.125
9	225	2.964	5178	68.221
10	484	6.377	4953	65.257
11	195	2.576	4069	53.610
12	370	4.875	3914	51.568
13	170	2.240	3544	46.693
14	354	4.664	3374	44.453
15	369	4.862	3020	39.789
16	334	4.401	2651	34.928
17	155	2.042	2317	30.527
18	237	3.123	2162	28.485
19	72	.949	1925	25.362
20	470	6.192	1853	24.414
21	43	.567	1383	18.221
22	137	1.805	1344	17.655
23	55	.725	1203	15.850
24	187	2.464	1148	15.125
25	139	1.831	961	12.661
26	122	1.607	822	10.830
27	40	.527	700	9.223
28	101	1.331	660	8.696
29	16	.211	559	7.365
30	195	2.569	543	7.154
31	6	.079	348	4.585
32	43	.567	342	4.506
33	18	.237	299	3.939
34	54	.714	281	3.702
35	53	.698	223	2.938
36	36	.474	170	2.240
37	3	.040	134	1.765
38	21	.277	131	1.726
39	3	.040	110	1.449
40	44	.582	107	1.410
41	1	.013	59	.777
42	8	.105	58	.764
43	4	.053	50	.659
44	13	.171	46	.606
45	11	.145	33	.435
46	6	.079	22	.290
47	1	.013	16	.211
48	8	.105	15	.198
50	5	.066	7	.092
54	1	.013	2	.028
60	1	.013	1	.013

STATION -- JUNIPER POINT
AUG 3 1978 TO MAY 15 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 20.7

WIND VELOCITY FREQUENCY -- MPH
TOTAL HOURS OBSERVED -- 6584

WINDSPD	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	36	.547	6584	100.000
1	67	1.018	6540	99.453
2	76	1.154	6481	98.436
3	91	1.382	6405	97.281
4	188	1.640	6314	95.899
5	265	4.025	6206	94.259
6	129	1.959	5941	90.234
7	115	1.747	5812	88.275
8	268	4.070	5697	86.528
9	131	1.998	5429	82.457
10	892	13.548	5298	80.468
11	25	.388	4406	66.920
12	192	2.916	4381	66.540
13	136	2.066	4189	63.624
14	61	.926	4053	61.558
15	306	4.648	3992	60.632
16	52	.790	3686	55.984
17	70	1.063	3634	55.194
18	186	2.825	3564	54.131
19	55	.835	3378	51.386
20	638	9.690	3323	50.471
21	20	.304	2685	40.781
22	82	1.245	2665	40.477
23	88	1.215	2583	39.231
24	70	1.063	2503	38.016
25	272	4.131	2433	36.953
26	67	1.018	2161	32.822
27	61	.926	2094	31.804
28	121	1.838	2033	30.878
29	40	.608	1912	29.040
30	454	6.896	1872	28.433
31	40	.608	1418	21.537
32	67	1.018	1378	20.938
33	56	.835	1311	19.912
34	45	.683	1256	19.077
35	201	3.053	1211	18.393
36	53	.805	1010	15.340
37	49	.744	957	14.535
38	124	1.883	908	13.791
39	20	.304	784	11.908
40	330	5.012	764	11.604
41	14	.213	434	6.592
42	31	.471	420	6.379
43	33	.501	389	5.908
44	20	.304	356	5.407
45	87	1.321	336	5.103
46	13	.197	249	3.782
47	18	.273	236	3.584
48	34	.516	218	3.311
49	4	.061	184	2.795
50	107	1.625	188	2.734
51	1	.015	73	1.109
52	4	.061	72	1.094
53	9	.137	68	1.033
54	2	.030	59	.896
55	19	.289	57	.866
56	3	.046	38	.577
57	1	.015	35	.532
58	5	.076	34	.516
59	16	.243	29	.440
60	1	.015	13	.197
61	1	.015	12	.182
62	3	.046	11	.167
63	1	.015	8	.122
64	2	.030	7	.106
65	3	.046	5	.076
66	1	.015	2	.030
67	1	.015	1	.015

STATION -- ROOSEVELT

OCT 20 1978 TO MAY 31 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 13.3

WIND VELOCITY FREQUENCY - MPH
TOTAL HOURS OBSERVED -- 5063

WINDSPD	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	178	3.516	5063	100.000
1	83	1.639	4885	96.484
2	277	5.471	4802	94.845
3	138	2.568	4525	89.374
4	358	7.071	4395	86.806
5	160	3.160	4037	79.735
6	331	6.538	3877	76.575
7	129	2.548	3546	70.038
8	281	5.550	3417	67.490
9	90	1.778	3136	61.940
10	397	7.841	3848	60.162
11	66	1.384	2849	52.321
12	209	4.128	2583	51.017
13	100	1.975	2374	46.889
14	215	4.246	2274	44.914
15	113	2.232	2059	40.668
16	211	4.167	1946	38.436
17	74	1.462	1735	34.268
18	198	3.911	1661	32.807
19	39	.770	1463	28.896
20	298	5.886	1424	28.128
21	52	1.027	1126	22.240
22	170	3.358	1074	21.213
23	83	1.639	904	17.855
24	166	3.279	821	16.216
25	122	2.410	655	12.937
26	135	2.666	933	18.527
27	44	.869	398	7.861
28	62	1.225	354	6.992
29	15	.296	292	5.767
30	86	1.699	277	5.471
31	4	.079	191	3.772
32	37	.731	187	3.693
33	16	.316	150	2.963
34	44	.868	134	2.647
35	15	.296	86	1.699
36	24	.474	71	1.402
37	7	.138	47	.928
38	10	.198	40	.790
39	2	.040	30	.593
40	12	.237	28	.553
42	5	.099	16	.316
43	4	.079	11	.217
44	4	.079	7	.138
49	1	.020	3	.059
50	2	.040	2	.040

STATION -- AUGSPURGER MTN

JULY 6 1978 TO MAY 31 1979

-AVERAGE WIND VELOCITY FOR TIME PERIOD -- 19.1

WIND VELOCITY FREQUENCY -- MPH
TOTAL HOURS OBSERVED -- 5170

WINDSPO	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	28	.542	5170	100.000
1	23	.445	5142	99.458
2	31	.600	5119	99.014
3	63	1.219	5088	98.414
4	95	1.838	5025	97.195
5	153	2.959	4930	95.358
6	84	1.625	4777	92.398
7	25	1.644	4593	90.774
8	88	1.702	4508	89.130
9	61	1.180	4520	87.627
10	302	5.841	4459	86.246
11	94	1.818	4157	80.406
12	138	2.669	4083	78.588
13	197	3.810	3925	75.919
14	93	1.799	3728	72.108
15	337	6.518	3635	70.309
16	132	2.553	3298	63.791
17	195	3.772	3186	61.238
18	289	5.590	2971	57.466
19	106	2.050	2582	51.476
20	573	11.043	2576	49.826
21	54	1.044	2003	38.743
22	143	2.766	1949	37.698
23	176	3.404	1806	34.932
24	103	1.992	1630	31.528
25	441	8.530	1527	29.536
26	109	2.108	1086	21.006
27	81	1.567	977	18.897
28	170	2.515	496	17.331
29	40	.774	766	14.816
30	297	5.745	726	14.043
31	17	.329	429	8.298
32	63	.832	612	7.969
33	57	1.103	369	7.137
34	21	.406	312	6.035
35	101	1.954	291	5.629
36	41	.793	190	3.675
37	7	.135	149	2.882
38	38	.735	162	2.747
39	1	.019	104	2.012
40	63	1.219	103	1.992
41	4	.077	40	.774
42	3	.058	36	.696
43	6	.116	33	.638
44	5	.097	27	.522
45	8	.155	22	.426
46	11	.213	16	.271
48	1	.019	3	.058
50	2	.039	2	.039

STATION -- GOODNOE HILLS

JUNE 9 1978 TO MAY 31 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 15.6

WIND VELOCITY FREQUENCY -- MPH
TOTAL HOURS OBSERVED -- 6907

WINDSPO	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	86	1.245	6907	100.000
1	64	.927	6821	98.755
2	317	4.590	6757	97.828
3	116	1.679	6440	93.239
4	377	5.458	6324	91.559
5	152	2.201	5947	86.101
6	412	5.965	5795	83.900
7	136	1.969	5383	77.935
8	377	5.458	5247	75.966
9	86	1.245	4870	70.508
10	443	6.414	4784	69.263
11	92	1.332	4341	62.849
12	306	4.438	4249	61.517
13	135	1.955	3943	57.087
14	272	3.938	3808	55.132
15	144	2.143	3536	51.194
16	434	6.283	3388	49.052
17	113	1.636	2954	42.768
18	332	4.807	2841	41.132
19	66	.956	2509	36.325
20	452	6.544	2443	35.370
21	68	.985	1991	28.826
22	233	3.373	1923	27.841
23	45	1.231	1690	24.468
24	247	3.576	1605	23.237
25	130	1.882	1358	19.661
26	279	4.039	1228	17.779
27	64	.927	949	13.740
28	177	2.543	885	12.813
29	45	.652	708	10.250
30	215	3.113	663	9.599
31	34	.492	448	6.486
32	74	1.100	414	5.994
33	47	.680	338	4.894
34	66	.956	291	4.213
35	42	.608	225	3.258
36	56	.811	183	2.649
37	21	.304	127	1.839
38	27	.391	106	1.535
39	7	.101	79	1.144
40	26	.376	72	1.042
41	5	.072	46	.666
42	6	.087	41	.594
43	2	.029	35	.507
44	8	.116	33	.478
45	8	.116	25	.362
46	4	.058	17	.246
47	1	.014	13	.190
48	4	.058	12	.174
49	1	.014	8	.116
50	1	.014	7	.101
51	2	.029	6	.087
52	1	.014	4	.058
53	1	.014	3	.043
54	2	.029	2	.029

STATION -- PRAIRIE MTN

JUNE 1, 1978 TO MAY 31, 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 15.3

WIND VELOCITY FREQUENCY -- MPH
TOTAL HOURS OBSERVED -- 8244

WINDSPD	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	102	1.237	8244	100.000
1	381	4.622	4142	96.763
2	168	2.038	7761	94.141
3	181	2.196	7993	92.103
4	343	4.161	7412	49.908
5	447	5.422	7869	89.787
6	276	3.348	6622	80.329
7	277	3.360	6346	76.977
8	321	3.894	6069	73.617
9	101	1.237	5740	69.723
10	801	7.290	5587	67.770
11	124	1.504	4988	60.440
12	361	4.379	4462	54.976
13	210	2.547	4901	59.997
14	313	4.039	4291	52.050
15	442	5.604	3958	48.011
16	278	3.372	3496	42.407
17	249	2.972	3218	39.034
18	277	3.360	2973	36.063
19	43	1.007	2696	32.703
20	568	6.890	2613	31.646
21	93	1.143	2049	24.986
22	206	2.499	1992	24.163
23	64	.778	1786	21.664
24	169	2.050	1722	20.888
25	232	2.814	1553	18.438
26	120	1.456	1321	16.024
27	125	1.516	1201	14.568
28	129	1.569	1076	13.052
29	37	.449	947	11.447
30	274	3.324	910	11.038
31	14	.174	636	7.715
32	46	1.143	620	7.521
33	40	.495	514	6.477
34	66	.801	494	5.992
35	80	.978	428	5.192
36	39	.473	368	4.464
37	31	.376	329	3.991
38	38	.461	298	3.615
39	20	.243	260	3.154
40	78	.946	240	2.911
41	8	.097	162	1.965
42	20	.243	154	1.864
43	8	.097	134	1.625
44	15	.182	126	1.528
45	20	.243	111	1.346
46	12	.146	91	1.104
47	13	.158	79	.958
48	19	.232	66	.801
49	9	.061	51	.619
50	25	.303	46	.558
51	1	.012	21	.255
52	4	.049	25	.243
53	2	.024	16	.194
54	2	.024	14	.170
55	9	.109	12	.146
56	2	.024	3	.036
57	1	.012	1	.012

STATION - CAPE BLANCO RPA

JUNE 1 1978 TO MAY 31 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 16.5

WIND VELOCITY FREQUENCY - MPH
TOTAL HOURS OBSERVED -- 7926

WINDSPD	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	30	.379	7926	100.000
1	36	.454	7896	99.621
2	187	2.359	7860	99.167
3	104	1.312	7673	98.808
4	339	4.277	7569	99.496
5	125	1.577	7230	91.219
6	387	4.883	7105	89.642
7	106	1.337	6718	84.759
8	410	5.173	6612	83.422
9	60	.757	6202	78.249
10	578	7.292	6142	77.492
11	90	1.136	5964	76.199
12	367	4.630	5474	69.864
13	130	1.640	5107	64.434
14	435	5.488	4977	62.793
15	152	1.918	4542	57.305
16	442	5.577	4390	55.387
17	245	3.099	3948	49.811
18	365	4.605	3883	47.981
19	89	1.123	3438	43.376
20	883	11.141	3349	42.253
21	74	.934	2666	33.838
22	265	3.343	2592	32.702
23	94	1.186	2327	29.359
24	350	4.416	2233	28.173
25	131	1.653	1883	23.757
26	283	3.571	1752	22.104
27	48	.609	1469	18.534
28	162	2.044	1389	17.525
29	34	.429	1227	15.481
30	219	2.763	1189	15.001
31	31	.391	970	12.238
32	97	1.224	939	11.847
33	30	.379	842	10.623
34	110	1.398	812	10.245
35	24	.303	702	8.857
36	80	1.009	678	8.554
37	27	.341	598	7.545
38	51	.643	571	7.204
39	10	.126	520	6.561
40	96	1.211	510	6.435
41	9	.114	414	5.223
42	22	.278	485	5.110
43	14	.177	383	4.832
44	27	.341	369	4.656
45	10	.126	342	4.315
46	31	.391	332	4.189
47	11	.139	301	3.798
48	20	.252	290	3.659
49	3	.038	278	3.487
50	72	.908	267	3.369
51	2	.025	195	2.460
52	12	.151	193	2.435
53	9	.063	181	2.284
54	23	.290	176	2.221
55	12	.151	153	1.930
56	17	.214	141	1.779
57	9	.114	124	1.564
58	12	.151	115	1.451
59	5	.063	103	1.300
60	37	.467	98	1.236
61	3	.038	61	.770
62	4	.050	58	.732
63	7	.088	54	.681
64	4	.050	47	.593
65	1	.013	43	.543
66	12	.151	42	.530
67	2	.025	30	.379
68	3	.038	28	.353
69	1	.013	25	.315
70	3	.038	24	.303
72	3	.038	21	.265
73	3	.038	18	.227
74	5	.063	15	.189
75	4	.050	10	.126
76	1	.013	6	.076
77	1	.013	5	.063
80	4	.050	4	.050

STATION -- KENNEWICK

JUNE 1 1978 TO MAY 31 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 14.4

WIND VELOCITY FREQUENCY -- HAN
TOTAL HOURS OBSERVED -- 7226

WINDSPD	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	302	4.179	7226	100.000
1	78	1.079	6924	95.821
2	174	2.408	6846	94.741
3	160	2.214	6672	92.333
4	310	4.290	6512	90.119
5	184	2.546	6202	85.829
6	465	6.435	6018	83.283
7	205	2.837	5553	76.847
8	456	6.311	5348	74.011
9	268	3.709	4892	67.700
10	695	9.618	4624	63.991
11	152	2.104	3929	54.373
12	341	4.719	3777	52.270
13	170	2.353	3436	47.551
14	242	3.363	3266	45.198
15	225	3.114	2984	41.295
16	322	4.456	2759	38.182
17	76	1.052	2437	33.725
18	277	3.833	2361	32.674
19	61	.844	2084	28.840
20	276	3.820	2023	27.996
21	71	.983	1747	24.177
22	145	2.007	1676	23.194
23	55	.761	1531	21.187
24	211	2.920	1476	20.426
25	37	.512	1265	17.506
26	182	2.519	1228	16.996
27	67	.927	1046	14.476
28	127	1.758	979	13.548
29	31	.429	852	11.791
30	193	2.671	821	11.362
31	30	.415	628	8.691
32	72	.996	598	8.276
33	40	.554	526	7.279
34	53	.732	486	6.726
35	29	.401	423	5.854
36	52	.720	394	5.453
37	29	.401	342	4.733
38	37	.512	313	4.332
39	21	.291	276	3.820
40	67	.927	255	3.529
41	16	.221	188	2.602
42	22	.304	172	2.380
43	23	.318	150	2.076
44	16	.221	127	1.758
45	20	.277	111	1.536
46	23	.318	91	1.259
47	12	.166	68	.941
48	11	.152	56	.775
49	5	.069	45	.623
50	4	.055	40	.554
51	2	.028	36	.498
52	3	.042	34	.461
53	5	.069	31	.429
54	1	.014	26	.360
55	2	.028	25	.346
56	10	.138	23	.318
57	4	.055	13	.180
58	2	.028	9	.125
60	4	.055	7	.097
62	1	.014	3	.042
63	1	.014	2	.028
67	1	.014	1	.014

STATION -- 7 MILE HILL TNR 50 FT

JULY 7 1978 TO MAY 17 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 13.8

WIND VELOCITY FREQUENCY - MPH

TOTAL HOURS OBSERVED -- 5811

WINDSPO	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	202	3.476	5811	100.000
1	115	1.979	5609	96.524
2	190	3.270	5494	94.545
3	242	4.165	5304	91.275
4	329	5.662	5062	87.111
5	491	8.449	4733	81.449
6	169	2.908	4242	72.999
7	129	2.220	4073	70.091
8	227	3.906	3944	67.871
9	91	1.394	3717	63.965
10	458	7.882	3636	62.571
11	44	.757	3178	54.689
12	141	2.426	3134	53.932
13	227	3.906	2993	51.506
14	153	2.633	2766	47.599
15	368	6.333	2613	44.966
16	110	1.893	2245	38.634
17	175	3.012	2135	36.741
18	206	3.545	1960	33.729
19	74	1.342	1754	30.184
20	388	6.677	1676	28.842
21	43	.740	1288	22.165
22	106	1.824	1245	21.425
23	118	2.031	1139	19.681
24	57	.981	1021	17.570
25	280	4.818	964	16.589
26	69	1.187	684	11.771
27	62	1.067	615	10.583
28	83	1.428	553	9.516
29	8	.138	470	8.088
30	190	3.270	462	7.950
31	16	.275	272	4.681
32	22	.379	256	4.405
33	23	.396	234	4.027
34	23	.396	211	3.631
35	100	1.721	188	3.235
36	3	.052	88	1.514
37	17	.293	85	1.463
38	15	.258	68	1.170
39	1	.017	53	.912
40	30	.516	52	.895
41	1	.017	22	.379
42	2	.034	21	.361
43	1	.017	19	.327
44	2	.034	18	.318
45	8	.138	16	.275
47	1	.017	8	.138
50	5	.086	7	.120
55	1	.017	2	.034
58	1	.017	1	.017

STATION -- 7 MILE HILL TWR 150 FT

OCT 4 1978 TO JUNE 7 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 15.3

WIND VELOCITY FREQUENCY - MPH
TOTAL HOURS OBSERVED -- 5136

WINDSPO	HOURS/ PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	66	1.285	5136	100.000
1	77	1.499	5070	98.715
2	103	2.005	4993	97.216
3	209	4.069	4490	95.210
4	264	5.140	4681	91.141
5	503	9.794	4417	86.001
6	138	2.687	3914	76.207
7	175	3.407	3776	73.520
8	200	3.894	3601	70.113
9	89	1.733	3401	66.219
10	536	10.436	3312	64.486
11	37	.720	2776	54.050
12	148	2.882	2739	53.329
13	176	3.427	2591	50.448
14	146	2.843	2415	47.021
15	276	5.374	2269	44.178
16	34	.662	1993	38.805
17	81	1.577	1959	38.143
18	99	1.928	1878	36.565
19	36	.701	1779	34.638
20	307	5.977	1743	33.937
21	26	.506	1436	27.960
22	56	1.090	1410	27.453
23	82	1.597	1354	26.363
24	53	1.032	1272	24.766
25	203	3.952	1219	23.734
26	113	2.200	1016	19.782
27	66	1.245	903	17.542
28	84	1.636	837	16.297
29	30	.584	753	14.661
30	201	3.914	723	14.077
31	32	.623	522	10.164
32	58	1.129	490	9.540
33	40	.779	432	8.411
34	29	.565	392	7.632
35	130	2.531	363	7.068
36	20	.389	233	4.537
37	44	.857	213	4.147
38	34	.662	169	3.290
39	10	.195	135	2.629
40	72	1.402	125	2.434
41	3	.058	53	1.032
42	4	.078	50	.974
43	8	.156	46	.896
44	5	.097	38	.740
45	13	.253	33	.643
46	1	.019	20	.389
47	3	.058	19	.370
48	3	.058	16	.312
50	6	.117	13	.253
55	5	.097	7	.136
60	1	.019	2	.039
63	1	.019	1	.019

STATION -- PADONAN 130 FT

JULY 3 1978 TO MAY 7 1979

AVERAGE WIND VELOCITY FOR TIME PERIOD -- 9.7

WIND VELOCITY FREQUENCY -- NEW
TOTAL HOURS OBSERVED -- 5507

WINDSPEED	HOURS/PERIOD	RELATIVE FREQUENCY	CUMULATIVE HOURS	CUMULATIVE RELATIVE FREQUENCY
0	253	4.594	5507	100.000
1	194	3.523	5254	95.406
2	452	8.171	5060	91.883
3	192	3.486	4208	76.412
4	720	13.074	4016	72.925
5	139	2.524	3296	59.851
6	526	9.557	3157	57.327
7	67	1.217	2731	49.591
8	306	5.557	2664	48.375
9	39	.708	2358	42.818
10	175	3.180	2319	42.110
11	47	.853	1944	35.301
12	140	2.559	1897	34.447
13	59	1.071	1717	31.179
14	171	3.105	1658	30.107
15	69	1.253	1487	27.002
16	140	2.547	1418	25.749
17	70	1.271	1270	23.062
18	210	3.813	1200	21.790
19	57	1.035	990	17.977
20	316	5.718	933	16.942
21	30	.545	617	11.204
22	91	1.652	527	9.559
23	44	.799	496	9.007
24	120	2.179	452	8.208
25	34	.617	332	6.029
26	79	1.435	249	4.511
27	24	.436	219	3.977
28	76	1.380	195	3.541
29	6	.109	119	2.161
30	53	.962	113	2.052
31	2	.036	60	1.090
32	15	.272	58	1.053
33	7	.127	43	.781
34	14	.254	36	.654
35	3	.054	22	.399
36	10	.182	19	.345
37	3	.054	9	.163
38	5	.091	6	.109
40	1	.018	1	.018

Speed Class (mph)

Date	0-7	8-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34	35-37
3/ 1-4/2/79	40.1	16.9	11.6	9.2	7.1	6.1	4.2	2.3	1.4	.7	.3
4/ 2-5/11	45.9	7.2	8.1	8.9	10.0	7.3	4.9	3.9	2.3	1.0	.4
5/11-6/7	24.9	11.0	10.5	10.8	12.8	9.9	7.4	6.0	3.9	2.1	.7

[illegible]

Monthly wind speed frequency distribution for the Sauter Ranch site.

Date	Speed Class (mph)										$\bar{V}$
	0-7	8-9	10-11	12-13	14-15	16-17	18-19	20-40	41-59	60+	
5/24- 7/12/78	19.3	3.8	3.6	3.8	4.4	5.1	5.1	49.5	4.6	.9	23.9
7/12- 9/9	19.9	3.6	2.9	2.4	2.3	2.7	2.9	39.5	6.8	0.0	24.7
8/9 - 8/30	25.4	4.6	3.7	3.7	3.9	4.7	5.2	47.5	1.4	0.0	25.8
8/30-10/3	29.6	3.3	3.2	3.6	4.4	5.1	5.1	44.3	1.4	0.0	M
10/3 -10/19	52.9	4.3	3.6	3.2	3.1	3.5	3.5	23.8	2.1	0.0	6.7
10/19-12/15	65.4	4.7	4.4	4.0	3.7	3.3	3.3	11.1	.1	0.0	6.1
12/15- 1/ 3/79	73.2	8.2	6.3	4.2	2.8	1.6	1.1	2.6	0.0	0.0	5.8
1/3 - 2/1	82.9	4.8	3.8	3.1	2.1	1.2	.9	1.3	0.0	0.0	4.2
2/1 - 4/3		missing									
4/3 - 5/11	30.2	5.0	5.6	6.6	7.3	7.0	6.8	31.1	.3	0.0	M
5/11- 6/13	31.1	5.2	5.3	6.0	7.2	7.5	6.8	29.8	1.1	0.0	M

Monthly speed frequency distribution for the Mosier site

Date	Speed Class (mph)										$\bar{V}$
	0-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27+	
6/ 7- 8/8/78	23.1	7.9	8.9	9.2	8.9	7.7	5.5	3.7	2.1	2.0	14.4
8/8 - 8/30	53.8	9.3	7.7	9.1	7.9	5.9	3.5	1.8	.7	.2	11.3
8/30- 9/26	65.5	10.2	8.3	6.2	4.5	2.5	1.4	.8	.3	.2	9.5
9/26-11/1	69.1	7.9	7.2	5.6	4.1	2.8	1.6	.9	.5	.3	8.7
11/1 - 3/2/79	54.0	13.9	9.1	5.9	4.0	3.0	2.6	1.9	1.4	4.1	7.2
3/2 - 4/10	63.3	7.8	7.1	6.4	5.1	4.2	2.8	1.6	1.0	.7	9.7
4/10- 6/13	33.2	7.6	7.8	6.6	5.4	4.4	3.1	1.9	1.0	.8	11.4

Monthly speed frequency distribution for Hurlburt Flats

Date	Speed class (mph)										$\bar{V}$
	0-7	8-9	10-11	11-13	14-15	16-17	18-19	20-40	41-59	60+	
5/31- 7/5/78	39.1	9.4	10.2	9.5	9.8	8.0	5.7	8.4	0	0	11.8
7/5 - 8/1	59.6	7.7	7.5	5.8	5.1	4.3	4.2	5.8	0	0	8.8
8/1 - 9/5	59.0	9.2	8.5	7.2	5.3	4.0	2.9	4.0	0	0	9.1
9/5 -10/2	58.7	12.7	9.8	7.3	5.0	3.1	2.0	1.5	0	0	7.1
10/2 -10/30	80.9	7.3	5.2	3.2	1.9	1.0	.3	.0	0	0	4.5
10/30-12/1	90.2	3.3	2.3	1.6	1.2	.8	.4	.2	0	0	3.1
12/1 - 1/31/79	78.0	6.9	4.8	2.9	1.9	1.3	1.3	2.9	0	0	5.1
1/31- 3/7	81.1	5.3	4.2	2.7	2.1	1.5	1.1	1.9	0	0	6.3
3/7 - 4/2	66.8	7.5	6.2	5.0	3.2	3.1	2.8	5.3	0	0	7.0
4/2 - 5/7	66.0	7.2	5.6	4.6	3.8	3.1	2.5	7.3	0	0	7.7

Monthly wind speed frequency distribution for the
Juniper Ranch site.

Date	0-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-69	70+	$\bar{V}$
6/6-6/29-78	51.6	12.9	9.1	5.8	4.2	3.2	2.4	2.0	8.9	0	7.4
6/29-7/27	61.2	11.1	6.8	4.6	3.4	.3	2.3	2.1	8.2	0	5.9
7/27-10/31	Missing										
10/31-2/1/79	69.0	9.7	5.7	4.2	3.2	2.3	1.7	1.4	2.8	0	7.1
2/1-2/28	66.5	7.3	5.2	4.2	3.4	1.3	2.4	2.4	7.2	0	6.6
2/28-3/31	73.0	10.7	5.6	3.3	1.9	1.3	1.0	.7	2.5	0	6.6
3/31-4/30	84.5	3.6	2.8	2.0	1.5	1.2	1.0	.8	2.5	0	4.6

Diurnal Wind Speed Summaries

STN 37 AUGSPURGER MTN
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV	
JAN	27.2	27.8	27.2	27.2	26.1	25.7	25.3	25.2	24.8	25.7	26.9	26.5	26.5	27.2	29.3	29.6	28.8	27.3	26.6	27.4	28.0	27.5	27.5	26.9	26.98		
MAR	14.7	14.7	15.6	14.5	13.7	14.3	14.3	13.6	13.9	14.1	13.1	12.4	12.7	13.1	13.0	13.4	13.7	14.3	14.1	14.8	15.1	15.8	15.3	15.3	14.15		
APR	18.7	17.5	16.4	17.3	17.7	17.0	16.7	16.9	15.8	16.0	16.7	17.9	18.3	19.6	19.8	19.6	17.4	17.7	18.9	18.9	18.3	18.8	19.0	20.1	18.00		
MAY	19.0	19.2	19.0	18.1	17.4	17.6	17.9	19.7	19.7	21.3	20.7	21.5	21.9	22.8	22.3	22.9	22.3	21.6	21.3	20.8	18.5	18.1	18.7	18.2	20.02		
JULY	21.8	22.5	21.2	19.3	19.6	20.7	19.5	18.8	18.3	17.9	18.1	19.5	20.0	20.0	20.7	23.5	25.4	25.8	26.3	26.0	24.0	23.0	22.7	22.3	21.58		
AUG	17.1	16.8	16.7	16.3	16.3	15.6	15.1	14.7	15.2	15.0	15.8	15.2	16.1	16.7	18.1	18.0	17.6	17.0	17.8	17.6	17.3	17.4	17.4	17.6	16.62		
SEPT	15.8	15.6	15.1	15.5	15.1	13.6	14.1	13.8	15.9	17.4	17.8	18.1	18.5	19.3	20.2	19.5	17.2	16.5	16.7	16.1	15.5	15.9	15.3	16.2	16.46		
OCT	19.8	19.5	20.3	18.3	18.2	17.2	19.1	18.3	18.2	19.0	18.5	18.6	18.8	19.5	18.7	20.2	20.2	19.8	20.2	19.6	19.1	20.3	19.1	19.4	19.16		
NOV	17.3	16.8	18.3	17.8	18.1	18.2	17.6	18.1	19.0	19.2	19.0	17.9	17.8	16.9	18.2	18.3	18.9	18.8	19.1	17.8	18.2	19.1	18.7	18.4	18.22		
DEC	22.4	20.6	21.0	20.5	21.6	22.1	21.1	21.6	21.3	21.2	21.7	21.6	22.1	21.6	21.3	21.2	20.8	20.6	19.3	19.4	20.0	20.3	19.9	21.6	21.04		
TOT	19.2	18.9	18.9	18.3	18.3	18.2	17.9	18.1	18.3	18.7	18.9	19.0	19.3	19.6	20.0	20.5	20.2	20.0	20.0	19.7	19.2	19.3	19.1	19.3	19.12		

NO. OBSERVATIONS PER MONTH																											
JAN	301	FEB	0	MAR	356	APR	275	MAY	744	JUNE	0	JULY	611	AUG	730	SEPT	469	OCT	304	NOV	717	DEC	650	TOTAL	5157		
PERCENT OF TOTAL OBSERV.																											
40.5	0	47.8	37.2	100.0	0	82.1	98.1	63.4	40.9	96.9	87.4	694.2															

STN 14 KCIV RADIO STATION
1978-79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV	
FEB	18.7	20.0	19.7	19.8	19.3	19.2	18.2	17.3	16.8	17.0	18.0	18.0	16.5	16.7	17.0	16.5	17.4	17.5	17.7	16.8	14.9	16.3	17.4	18.0	17.67		
MAR	11.5	12.0	11.5	11.9	11.8	12.3	12.7	12.5	12.2	12.1	12.4	12.2	10.9	11.2	12.1	11.5	12.0	12.0	12.6	12.2	11.9	12.5	11.5	11.8	11.97		
APR	15.9	16.0	16.1	15.2	16.2	15.4	15.1	14.8	15.2	15.1	15.3	15.0	15.7	15.8	15.6	15.7	16.1	15.8	15.7	15.4	16.1	16.3	16.3	16.0	15.66		
MAY	15.3	15.3	15.5	16.0	15.5	15.3	14.9	14.6	14.0	14.1	14.1	14.8	15.4	15.2	15.7	15.9	16.5	16.9	16.9	17.2	16.9	17.1	17.0	16.7	15.71		
JUNE	15.3	15.2	15.2	15.1	14.3	14.0	13.5	13.0	12.0	12.6	13.4	13.6	14.9	15.4	15.5	15.3	16.5	16.9	17.8	17.8	16.5	16.3	15.8	15.3	15.04		
JULY	15.3	15.3	14.7	14.4	13.8	13.8	13.1	12.3	11.2	11.2	11.5	12.1	12.7	12.7	13.4	14.7	15.4	16.5	17.4	17.5	17.7	17.6	16.9	15.9	14.41		
AUG	16.1	15.4	15.5	15.3	15.6	15.5	14.4	14.2	15.2	15.3	14.9	15.4	16.3	16.8	17.9	18.3	18.8	19.9	20.1	19.7	18.4	17.8	17.3	16.7	16.65		
OCT	20.0	20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.0	14.0	15.0	15.0	16.0	20.0	16.75	
TOT																											
AVE	15.1	15.2	15.0	14.9	14.8	14.6	14.2	13.8	13.5	13.5	13.8	14.0	14.2	14.4	14.9	15.0	15.6	16.0	16.4	16.2	15.9	16.1	15.7	15.5	14.92		

NO. OBSERVATIONS PER MONTH																											
JAN	0	FEB	297	MAR	738	APR	719	MAY	645	JUNE	514	JULY	651	AUG	322	SEPT	0	OCT	8	NOV	0	DEC	0	TOTAL	3894		
PERCENT OF TOTAL OBSERV.																											
JAN	0	FEB	44.2	MAR	99.2	APR	97.2	MAY	86.7	JUNE	69.5	JULY	87.5	AUG	43.3	SEPT	0	OCT	1.1	NOV	0	DEC	0	TOTAL	528.6		

STN 86 7 MI. HILL TWR 50 FT
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	8.7	8.7	8.0	8.0	7.7	6.5	6.4	6.9	6.7	6.9	7.2	7.2	8.0	9.4	10.2	10.4	10.5	9.4	9.2	9.1	9.4	9.0	9.0	9.5		8.42
FEB	9.8	9.7	9.0	8.6	8.6	9.3	10.5	10.1	10.7	11.4	12.6	13.7	13.6	13.7	13.7	14.1	14.1	14.0	13.9	13.0	11.9	12.9	12.3	12.3		11.84
MAR	12.6	12.6	12.6	12.7	11.8	11.9	10.2	10.1	8.9	9.0	10.3	11.5	14.0	13.7	14.5	14.8	15.0	14.1	15.0	13.8	13.7	14.8	13.9	12.8		12.67
APR	19.3	19.9	18.2	17.8	17.4	16.7	16.7	16.1	15.7	16.1	17.1	18.7	19.2	18.8	20.0	21.4	21.7	20.5	20.6	20.0	20.3	20.0	20.1	19.4		18.83
MAY	22.1	21.5	21.6	21.2	20.6	20.5	21.9	21.4	23.1	23.5	24.1	23.3	24.5	26.4	26.2	26.1	26.6	26.3	25.6	24.7	22.8	23.4	24.1	22.3		23.45
OCT	11.3	10.9	12.0	11.5	11.7	12.1	11.7	11.4	10.2	10.3	10.3	10.0	13.1	13.2	13.4	15.0	14.9	15.6	15.6	13.6	11.8	10.5	8.7	10.6		12.18
NOV	10.8	10.6	10.1	9.4	9.2	8.0	8.9	8.8	10.0	7.9	8.9	10.0	10.3	10.7	10.5	10.4	10.0	10.3	11.3	10.8	10.4	11.3	10.9	11.3		10.02
DEC	15.3	14.7	15.5	14.9	15.2	14.9	14.8	13.9	13.6	14.0	15.2	17.0	16.2	16.0	17.0	15.4	16.3	16.5	16.1	16.2	17.1	15.7	16.0	15.6		15.55
TOT																										
AVE	13.6	13.4	13.1	12.8	12.5	12.2	12.2	11.9	11.8	11.8	12.7	13.6	14.4	14.7	15.2	15.4	15.6	15.2	15.3	14.7	14.5	14.5	14.3	14.1		13.72

NO. OBSERVATIONS PER MONTH

JAN 743 FEB 526 MAR 720 APR 720 MAY 388 JUNE 0 JULY 0 AUG 0 SEPT 0 OCT 304 NOV 713 DEC 720 TOTAL 4834

PERCENT OF TOTAL OBSERV.

99.9 78.3 96.8 97.3 52.2 0 0 0 0 40.9 96.4 96.8 658.3

STN 87 7 MI. HILL TWR 150 FT
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV	
JAN	10.4	10.7	9.0	9.9	9.1	8.8	8.5	8.5	8.4	8.1	8.5	8.9	9.2	10.2	10.8	11.4	11.3	10.8	10.5	10.9	10.7	10.4	11.2	10.7	9.87		
FEB	8.1	8.2	7.4	8.0	8.9	9.3	9.5	10.5	9.9	10.9	11.3	11.9	11.9	12.3	12.4	13.1	12.6	12.3	11.4	11.3	9.9	9.3	8.2	8.0	10.27		
MAR	14.5	14.3	14.6	14.8	14.5	14.2	12.7	12.0	10.6	10.6	12.0	12.9	15.0	15.3	16.4	16.7	17.3	17.2	18.1	17.0	17.1	17.9	17.1	15.9	14.96		
APR	27.1	28.4	25.4	25.5	23.1	22.7	23.8	20.8	18.9	19.3	21.4	22.6	24.6	25.7	26.9	29.0	27.9	25.7	26.2	27.4	26.2	25.4	25.1	24.1	24.64		
MAY	24.8	25.0	24.5	23.0	22.7	21.9	20.0	18.9	19.0	19.0	19.8	20.0	21.2	23.2	25.0	25.9	27.6	26.9	26.2	26.9	24.6	24.5	24.3	23.9	23.32		
JUNE	25.0	25.4	24.5	23.8	23.1	22.6	19.6	18.9	22.1	22.6	24.2	24.7	25.8	26.2	27.2	27.6	27.0	28.1	27.8	26.3	24.4	21.8	24.5	25.4	24.55		
OCT	15.4	14.8	14.1	15.6	16.0	15.7	14.3	12.3	12.3	12.7	14.1	15.5	15.7	16.0	17.4	18.6	19.5	18.9	18.1	17.3	15.2	16.1	15.9	16.0	15.75		
NOV	13.2	13.2	12.5	12.1	11.6	10.4	11.7	11.1	11.9	10.3	11.1	12.0	12.3	12.3	12.0	12.6	12.4	13.1	13.4	13.4	13.2	13.8	13.4	14.0	12.36		
DEC	17.0	17.6	17.5	17.1	16.7	15.2	15.1	15.5	14.8	17.0	17.5	17.8	17.8	19.1	17.8	17.9	18.7	18.8	19.1	18.5	18.0	18.2	17.9	17.3	17.44		
TOT	15.4	15.5	14.8	14.9	14.6	14.1	13.6	13.1	12.9	13.2	14.1	14.8	15.5	16.2	16.7	17.3	17.6	17.4	17.3	17.0	16.1	16.1	15.9	15.6	15.41		

NO. OBSERVATIONS PER MONTH																											
JAN	719	FEB	672	MAR	739	APR	264	MAY	493	JUNE	201	JULY	0	AUG	0	SEPT	0	OCT	656	NOV	699	DEC	732	TOTAL	5175		
PERCENT OF TOTAL OBSERV.																											
	96.6		100.0		99.3		35.7		66.3		27.2		0		0		0		88.2		94.5		98.4		706.1		

STN 79 JUNIPER POINT
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV	
JAN	15.1	15.8	15.9	16.1	14.9	15.2	14.7	12.6	12.8	12.8	12.4	13.3	13.7	13.7	14.4	14.3	14.3	13.2	12.9	13.0	13.1	14.0	13.7	14.0	13.97		
FEB	21.1	20.8	20.3	20.2	21.7	19.9	22.6	23.0	23.6	23.1	23.7	24.8	24.8	26.4	30.0	30.2	30.7	30.2	28.1	28.5	27.4	24.8	23.0	21.6	24.61		
MAR	22.8	23.5	22.7	21.4	21.5	21.1	19.7	18.6	15.2	14.7	14.2	14.8	16.0	16.6	17.6	19.5	21.0	21.7	23.7	23.1	23.7	23.2	23.8	23.9	20.18		
APR	26.2	26.9	27.5	26.2	25.7	24.2	22.9	21.3	20.1	19.2	19.4	19.2	19.0	20.2	21.1	22.8	23.5	24.8	26.4	27.1	27.0	27.7	27.8	27.0	23.88		
MAY	23.6	21.6	22.4	23.1	24.0	22.9	19.1	20.0	16.9	15.3	16.0	15.5	15.6	16.3	18.9	18.3	20.9	23.4	26.1	28.7	28.9	25.9	22.6	23.1	21.01		
AUG	25.2	23.9	23.2	23.0	22.9	23.3	21.5	18.3	15.9	15.8	16.6	17.5	18.6	20.3	21.2	22.9	23.9	25.6	27.8	26.8	26.3	26.1	26.4	25.9	22.49		
SEPT	22.1	22.0	21.7	22.4	21.6	20.8	19.4	16.3	15.5	15.0	16.9	16.8	18.4	20.0	22.4	26.2	26.5	26.4	26.0	25.5	24.8	23.8	23.0	22.9	21.52		
OCT	19.5	18.6	17.8	18.4	19.1	18.5	17.8	16.3	13.8	13.1	12.9	14.8	16.5	17.0	17.2	18.5	19.5	21.7	22.4	22.1	20.7	19.8	19.9	20.2	18.16		
NOV	19.0	17.8	18.1	19.1	18.8	18.7	18.9	18.7	17.4	16.4	17.8	18.2	15.1	16.4	15.7	17.3	16.8	19.4	20.6	20.3	20.1	19.1	18.4	19.1	18.21		
DEC	26.8	24.7	26.3	25.7	25.9	22.2	24.1	23.6	20.9	20.8	20.9	21.5	24.2	22.9	20.7	21.4	24.5	25.3	25.3	25.8	24.7	26.0	26.2	24.1	23.95		
TOT	22.0	21.5	21.5	21.4	21.3	20.5	20.1	18.7	17.1	16.6	17.0	17.7	18.3	19.1	19.9	21.3	22.2	23.0	23.7	23.6	23.1	22.7	22.4	22.1	20.70		

NO. OBSERVATIONS PER MONTH																											
JAN	733	FEB	667	MAR	744	APR	720	MAY	175	JUNE	0	JULY	0	AUG	684	SEPT	720	OCT	742	NOV	717	DEC	682	TOTAL	6584		
PERCENT OF TOTAL OBSERV.																											
98.5	99.3	100.0	97.3	23.5	0	0	91.9	97.3	99.7	96.9	91.7	896.1															

STN 34 KENNEWICK
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	7.2	7.0	6.9	6.3	6.0	5.3	5.4	5.1	5.3	6.1	6.4	6.2	6.3	6.9	7.2	7.2	7.0	7.5	7.4	7.1	7.1	6.6	6.8	6.8	6.55	
FEB	21.6	20.5	19.7	18.1	16.2	18.0	17.4	17.2	18.0	17.8	17.5	17.9	18.2	17.5	17.2	17.7	19.0	19.8	20.1	20.5	20.4	19.5	19.0	20.2	18.79	
MAR	12.0	11.7	12.4	12.1	12.2	12.0	11.7	11.7	11.7	11.1	11.6	12.0	12.1	12.4	12.1	11.7	12.4	12.5	12.7	12.5	11.9	11.5	11.6	12.0	11.99	
APR	11.7	12.4	12.1	12.4	12.9	13.8	13.7	14.1	14.6	14.1	14.1	14.9	13.5	12.8	13.2	13.3	13.0	13.9	14.1	13.8	13.7	12.9	11.9	12.3	13.31	
MAY	15.5	15.6	17.3	16.8	15.8	16.2	15.7	15.8	15.5	15.6	15.6	15.5	16.2	16.5	17.6	17.4	18.3	18.3	17.7	17.3	16.2	15.2	16.0	15.1	16.36	
JUNE	18.6	18.4	17.9	17.8	17.5	18.0	17.6	16.6	16.7	17.2	17.3	18.4	18.3	18.9	18.6	18.2	18.7	19.4	19.1	18.6	18.8	19.1	19.2	18.6	18.23	
JULY	15.3	16.7	16.5	17.4	17.7	17.4	17.1	16.6	17.1	16.3	16.6	15.7	15.8	16.6	16.5	17.0	15.5	15.5	13.9	14.0	14.9	16.9	16.9	16.6	16.32	
AUG	14.6	14.6	14.6	14.8	14.6	14.0	13.8	13.2	14.0	12.0	11.3	11.3	11.6	12.9	12.4	12.4	12.2	12.2	13.3	14.7	15.6	15.8	16.4	16.0	13.71	
SEPT	8.7	11.7	10.3	13.5	12.8	13.8	13.5	18.5	17.3	19.5	23.8	22.8	23.5	19.8	19.8	18.8	16.0	15.8	16.8	12.0	11.8	12.0	11.3	11.3	15.77	
OCT	13.8	14.3	13.6	13.7	13.4	14.6	13.6	13.0	13.3	12.4	13.2	13.3	13.3	13.5	13.7	13.6	12.7	12.9	13.0	13.7	13.3	13.0	13.3	13.1	13.39	
NOV	16.8	17.1	17.0	17.4	17.8	18.4	18.6	19.2	18.6	18.0	19.3	19.2	17.5	17.6	16.2	16.3	16.2	14.4	15.0	16.9	15.3	15.3	16.4	17.0	17.14	
DEC	20.0	20.5	20.7	20.1	19.6	20.8	18.3	18.3	18.3	17.2	17.2	16.1	15.9	16.0	16.5	17.5	17.4	17.2	16.9	16.6	17.9	18.9	19.0	18.8	18.11	
TOT																										
AVE	15.0	15.2	15.2	15.1	15.0	15.2	14.7	14.6	14.8	14.4	14.7	14.8	14.6	14.8	14.8	14.9	14.8	14.9	14.8	14.9	14.7	14.7	14.9	14.9	14.84	

NO. OBSERVATIONS PER MONTH

JAN 700 FEB 496 MAR 744 APR 707 MAY 742 JUNE 676 JULY 744 AUG 225 SEPT 93 OCT 733 NOV 591 DEC 744 TOTAL 7193

PERCENT OF TOTAL OBSERV.

94.1 73.5 100.0 95.5 99.7 91.4 100.0 30.2 12.6 98.5 79.9 100.0 975.4

STN 31 GOODNOE HILLS
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	7.7	7.6	7.1	6.9	6.8	6.5	6.6	7.2	7.2	6.4	6.9	6.8	6.9	7.8	6.8	6.1	7.1	7.5	5.9	6.8	7.1	6.8	6.8	6.8	6.8	6.93
FEB	11.8	11.3	11.7	11.8	11.1	10.8	11.3	11.1	11.7	11.8	11.4	13.4	13.7	15.0	18.3	18.3	19.5	20.8	19.2	18.5	16.8	15.5	15.2	14.3	14.33	
MAR	16.9	17.3	16.8	16.2	15.5	15.8	14.1	13.1	11.3	10.6	12.0	12.6	13.9	14.3	15.0	14.5	14.9	14.3	15.9	16.3	17.5	18.3	17.8	17.5	15.11	
APR	18.3	17.2	18.2	17.0	15.6	13.7	14.2	12.9	12.8	13.0	14.2	14.3	14.4	15.5	15.8	16.1	17.3	18.8	19.7	20.6	21.0	19.2	20.5	19.5	16.67	
MAY	20.1	20.2	19.2	19.5	19.4	18.4	16.8	15.5	14.8	14.6	15.8	15.8	16.7	17.7	19.1	19.6	19.9	21.5	22.5	22.9	23.4	22.9	21.7	21.3	19.14	
JUNE	24.7	21.9	22.0	22.1	21.9	20.9	17.6	16.0	16.7	16.8	16.4	18.6	20.0	19.4	19.1	18.4	18.6	17.3	19.5	21.6	21.9	20.0	20.3	22.0	19.77	
JULY	21.2	20.9	21.0	19.7	18.8	16.8	15.1	13.4	12.2	11.4	11.5	12.2	13.5	14.0	15.4	17.9	18.6	19.1	21.0	23.3	22.1	22.0	21.3	20.3	17.61	
AUG	20.0	19.3	19.8	19.5	18.7	16.9	15.2	13.5	13.3	14.1	14.9	15.7	16.4	17.6	18.5	18.8	20.5	21.2	22.5	21.8	20.8	20.9	20.3	19.8	18.33	
SEPT	17.8	17.1	17.9	18.1	16.6	16.1	16.3	15.3	13.8	12.9	12.8	13.1	13.3	13.3	15.4	17.4	18.6	20.5	19.5	20.1	19.1	18.1	17.0	17.8	16.58	
OCT	13.6	13.3	13.2	13.0	14.5	13.1	13.3	11.4	8.3	8.7	9.0	11.6	12.6	13.6	14.7	15.7	15.7	15.8	16.5	16.8	14.7	15.3	15.9	14.1	13.47	
NOV	9.0	9.2	8.2	8.0	8.1	9.1	8.6	8.2	6.9	6.4	4.7	5.6	5.3	5.7	5.4	6.2	8.0	7.5	8.7	10.9	8.4	7.9	6.2	7.8	7.52	
DEC	15.9	16.0	15.1	15.8	16.9	15.8	15.1	15.6	15.2	14.0	13.9	14.1	14.8	16.1	15.9	15.7	15.9	16.2	16.5	16.3	16.1	16.1	16.1	15.8	15.62	
TOT																										
AVE	16.8	16.4	16.4	16.2	15.8	14.9	14.1	13.2	12.3	12.0	12.4	13.1	13.8	14.6	15.6	16.1	16.9	17.6	18.1	18.6	18.1	17.8	17.4	17.0	15.63	

NO. OBSERVATIONS PER MONTH

JAN 456 FEB 572 MAR 679 APR 546 MAY 719 JUNE 206 JULY 741 AUG 744 SEPT 720 OCT 559 NOV 223 DEC 742 TOTAL 6907

PERCENT OF TOTAL OBSERV.

61.3 85.1 91.3 73.8 96.6 27.8 99.6 100.0 97.3 75.1 30.1 99.7 937.8

STN 32 PEQUOP SUMMIT
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	13.8	13.2	12.5	13.6	13.9	13.9	13.6	13.9	13.2	13.7	14.5	15.0	15.7	15.4	15.1	15.6	15.4	15.5	16.0	15.8	15.1	14.6	14.1	12.5	14.40	
FEB	15.3	15.6	15.5	16.3	15.2	15.7	13.8	13.6	16.1	15.4	17.4	16.9	17.9	17.7	18.5	18.9	18.9	20.2	19.3	18.0	17.6	16.6	16.2	16.3	16.79	
MAR	10.5	10.5	10.4	10.3	11.5	10.9	10.0	11.4	12.0	11.8	13.3	14.3	14.8	14.6	14.5	14.7	14.8	14.1	12.8	12.1	10.9	10.0	9.6	9.6	12.07	
APR	15.1	16.1	16.5	14.9	14.7	14.9	15.3	16.4	16.9	18.2	18.4	19.7	19.9	21.4	21.4	20.9	20.9	17.6	16.3	15.8	15.4	14.7	14.9	14.6	17.12	
MAY	14.0	13.6	13.3	14.8	12.8	11.6	12.5	13.3	14.9	15.3	16.5	17.7	18.4	17.6	16.9	17.1	18.6	17.7	15.7	14.5	14.8	15.0	14.9	13.6	15.19	
JUNE	13.5	13.8	13.0	12.9	11.6	10.3	10.9	11.4	12.9	13.6	15.8	14.7	15.1	16.6	17.4	16.9	18.6	18.1	16.0	14.4	14.7	14.6	14.9	14.6	14.42	
JULY	11.7	11.0	9.4	7.9	6.9	6.5	6.5	6.8	7.8	9.1	10.4	10.2	11.7	12.8	14.3	15.4	17.0	15.9	16.2	15.5	15.0	13.7	12.8	12.5	11.55	
AUG	13.4	12.6	11.5	11.2	11.3	9.6	9.0	8.3	10.4	12.0	11.8	12.5	14.2	14.9	14.9	15.4	15.7	15.1	14.2	13.4	14.3	13.6	12.7	12.8	12.69	
SEPT	10.5	10.5	10.5	10.7	10.9	10.5	10.4	10.2	10.1	11.9	12.4	12.9	13.7	15.4	15.9	15.8	16.9	15.6	15.2	14.0	12.7	10.3	10.5	10.1	12.36	
OCT	10.4	10.4	9.8	9.7	9.4	9.6	9.5	8.7	9.7	9.8	10.8	12.2	12.5	12.3	12.6	12.5	13.0	11.9	10.8	10.3	9.5	9.4	9.2	9.9	10.58	
NOV	9.7	9.4	10.3	12.1	12.8	13.3	13.8	13.1	13.8	13.9	13.4	13.9	13.2	13.4	13.6	13.2	12.5	12.4	12.7	11.5	11.9	12.0	12.0	11.5	12.47	
DEC	21.0	21.1	20.6	21.1	21.2	20.3	20.0	20.7	20.5	21.4	21.6	22.2	23.1	24.4	25.7	25.6	22.2	24.3	24.3	21.9	20.6	20.9	19.9	18.6	21.84	
TOT																										
AVE	12.9	12.7	12.4	12.5	12.2	11.8	11.7	11.9	12.7	13.4	14.3	14.7	15.4	15.9	16.3	16.4	16.7	16.0	15.3	14.4	14.0	13.4	13.1	12.7	13.86	

NO. OBSERVATIONS PER MONTH

JAN 744 FEB 521 MAR 598 APR 720 MAY 422 JUNE 716 JULY 764 AUG 743 SEPT 555 OCT 732 NOV 743 DEC 341 TOTAL 7589

PERCENT OF TOTAL OBSERV.

100.0 77.5 79.0 97.3 56.7 96.8 102.7 99.9 75.0 98.4 100.4 45.8 029.7

STN 36 CAPE BLANCO RPA
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	14.2	14.9	14.5	14.0	14.8	14.5	14.4	14.6	15.7	14.9	14.8	16.3	16.5	17.6	19.2	18.2	17.2	16.0	15.5	15.0	15.2	15.9	16.5	15.8	15.69	
FEB	29.1	30.5	30.0	30.4	29.6	28.3	28.6	29.6	30.6	28.5	27.0	27.2	27.6	27.5	28.0	27.8	27.5	27.1	28.4	28.4	28.8	27.1	28.1	28.5	28.50	
MAR	17.8	17.3	17.3	17.2	15.6	15.7	15.7	16.0	16.1	16.6	18.3	19.3	18.3	18.6	18.3	18.6	18.5	18.8	18.2	17.3	17.3	18.0	19.3	19.4	17.65	
APR	11.6	12.9	11.0	11.3	11.3	12.2	15.5	16.1	14.4	14.5	15.1	15.3	15.5	15.9	16.4	16.1	16.5	14.0	14.1	13.8	12.8	12.3	12.4	12.5	13.95	
MAY	18.9	19.4	19.5	18.5	18.6	18.8	18.8	19.9	21.7	22.3	23.3	22.3	22.5	23.2	22.2	22.8	22.8	22.8	23.7	23.5	23.2	22.2	21.3	20.4	21.36	
JUNE	14.1	13.3	12.8	13.3	12.1	12.3	13.2	13.5	13.9	15.5	15.5	15.5	15.1	16.1	15.8	15.9	16.8	17.4	15.4	15.5	14.9	14.2	13.1	13.3	14.52	
JULY	18.3	18.1	18.3	18.2	18.3	18.5	17.7	17.2	17.6	18.5	20.3	21.2	21.9	23.0	23.4	22.7	23.3	23.0	22.5	21.5	21.0	20.5	20.0	20.0	20.21	
AUG	19.4	20.3	20.8	19.9	19.7	19.8	17.2	18.2	18.9	19.8	21.1	22.5	20.3	18.7	19.1	17.9	18.4	19.5	18.7	19.3	19.5	19.4	19.1	18.6	19.38	
SEPT	16.9	16.7	16.2	16.2	16.2	16.2	16.1	16.8	17.1	16.5	16.1	17.6	17.8	18.4	18.4	19.0	17.9	17.7	17.0	17.4	16.7	17.0	17.2	18.0	17.14	
OCT	18.2	16.9	17.3	16.2	16.7	16.3	16.3	16.8	16.3	16.6	17.8	19.2	18.6	19.3	19.3	19.0	19.1	19.3	19.2	18.0	16.7	17.2	17.5	18.0	17.76	
NOV	18.0	17.6	16.6	16.3	15.6	17.1	17.9	18.8	19.2	20.3	20.7	21.9	22.4	22.0	21.5	20.9	20.0	20.4	20.2	18.8	18.2	18.6	17.6	17.9	19.11	
DEC	15.3	15.1	15.5	15.6	16.3	16.6	16.8	17.1	17.4	18.8	19.0	19.3	18.5	19.5	18.6	18.0	17.2	16.6	16.3	15.5	15.5	16.3	16.7	16.7	17.01	
TOT																										
AVE	17.7	17.7	17.5	17.2	17.1	17.1	17.4	17.9	18.3	18.6	19.0	19.7	19.5	20.0	20.0	19.8	19.6	19.4	19.1	18.7	18.3	18.2	18.3	18.3	18.53	

NO. OBSERVATIONS PER MONTH

JAN 731 FEB 672 MAR 701 APR 516 MAY 744 JUNE 719 JULY 551 AUG 439 SEPT 649 OCT 744 NOV 717 DEC 743 TOTAL 7926

PERCENT OF TOTAL OBSERV.

98.3 100.0 94.2 69.7 100.0 97.2 74.1 59.0 87.7 100.0 96.9 99.9 97.6

STN 59 PRAIRIE MTN
1978-79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	19.1	19.7	21.1	22.0	21.2	23.0	23.3	23.1	22.7	23.5	24.5	24.6	23.9	24.1	24.2	22.0	22.5	21.3	21.0	20.2	19.0	19.1	20.1	19.4	21.86	
FEB	15.9	16.5	18.0	18.1	18.1	17.8	18.0	17.8	17.2	19.4	19.4	18.5	17.9	17.9	17.5	17.4	16.9	18.0	16.8	16.3	16.2	16.1	16.6	15.3	17.40	
MAR	14.7	16.3	17.4	17.1	17.9	18.0	18.6	18.0	16.6	16.1	15.8	16.1	14.1	14.4	14.4	14.4	14.3	14.0	13.5	13.3	13.3	13.7	13.8	13.9	15.38	
APR	12.8	12.6	13.3	12.1	11.2	10.9	10.8	11.1	11.9	12.1	12.4	12.5	12.3	12.5	12.5	12.3	11.5	12.0	13.4	13.9	13.5	13.4	13.4	14.0	12.44	
MAY	16.4	15.9	15.9	16.4	16.4	15.7	14.7	13.7	13.1	13.4	13.4	13.9	14.5	15.4	16.0	16.0	15.5	14.5	15.6	16.0	16.3	17.7	17.6	17.9	15.50	
JUNE	10.5	10.1	9.5	8.7	8.6	8.5	7.1	6.7	6.2	5.9	5.7	6.1	6.8	6.8	7.3	7.6	8.1	8.2	9.5	10.4	10.5	10.9	10.1	10.5	8.33	
JULY	8.0	8.2	8.2	8.8	8.8	8.0	7.2	6.1	5.3	4.7	4.2	4.4	5.3	5.7	5.6	6.4	6.4	6.6	7.4	7.3	8.2	8.9	8.6	8.6	6.96	
AUG	21.0	20.2	19.1	18.9	20.2	19.4	18.4	16.9	16.0	14.9	14.2	15.2	15.8	16.0	16.2	16.7	17.1	18.0	18.1	18.9	18.9	19.8	19.8	20.4	17.94	
SEPT	21.5	22.0	21.6	22.5	23.5	23.5	22.4	22.1	21.0	20.2	18.8	18.9	18.7	19.6	19.8	19.8	20.6	21.6	21.7	22.2	22.0	21.0	21.3	21.5	21.14	
OCT	14.4	13.9	14.2	13.8	14.2	14.3	14.8	13.5	13.4	11.6	10.1	9.8	8.5	9.5	10.1	11.7	13.1	13.8	13.9	14.8	13.4	13.9	13.7	13.5	12.84	
NOV	19.1	19.1	18.6	17.8	18.0	17.2	17.9	17.1	16.7	18.0	18.6	19.4	19.4	19.3	20.2	21.3	21.7	22.5	21.2	20.3	20.1	19.5	19.6	19.5	19.25	
DEC	17.1	17.6	17.3	16.8	17.1	17.4	17.5	17.8	17.6	17.9	18.0	18.2	17.9	17.7	16.6	17.1	16.3	16.1	16.6	16.6	17.3	17.5	18.5	18.3	17.37	
TOT	15.7	15.8	16.0	15.8	16.0	15.9	15.6	15.0	14.5	14.5	14.2	14.4	14.2	14.5	14.7	14.9	15.0	15.3	15.5	15.6	15.5	15.8	15.9	15.9	15.26	

NO. OBSERVATIONS PER MONTH

JAN 526 FEB 639 MAR 706 APR 704 MAY 721 JUNE 684 JULY 780 AUG 738 SEPT 636 OCT 742 NOV 693 DEC 675 TOTAL 8244

PERCENT OF TOTAL OBSERV.

70.7 95.1 94.9 95.1 96.9 92.4 104.8 99.2 85.9 99.7 93.6 90.7 119.7

STN 88 ROOSEVELT
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV
JAN	7.3	7.8	7.7	7.6	7.4	6.8	7.1	7.2	6.6	7.5	7.6	7.0	8.4	8.4	8.2	7.7	7.3	6.7	7.6	7.8	7.1	7.1	7.3	7.5	7.45	
FEB	10.8	10.6	10.9	9.8	10.2	11.2	12.1	11.7	11.9	11.9	13.6	14.9	15.3	16.9	17.3	16.1	16.1	16.7	14.1	14.2	13.1	11.5	11.5	11.1	13.12	
MAR	13.9	13.5	12.9	12.6	12.7	12.4	11.0	10.9	11.2	12.3	13.1	13.2	14.2	15.1	15.2	15.3	15.0	14.4	13.8	14.8	14.7	15.7	15.5	15.2	13.69	
APR	15.9	15.2	14.4	13.8	13.8	13.1	13.2	13.2	14.3	15.0	16.6	17.1	16.4	17.1	17.0	16.6	17.0	17.6	17.1	17.5	17.4	17.2	16.0	16.2	15.80	
MAY	16.6	16.5	16.1	16.0	16.0	15.0	14.5	14.4	14.2	14.3	15.2	15.4	16.5	17.6	18.1	19.4	19.3	19.6	18.7	18.1	17.7	16.9	17.6	17.2	16.69	
OCT	11.0	11.3	10.6	10.7	10.8	11.5	11.0	7.5	6.5	8.0	8.9	9.9	14.1	13.8	14.8	14.0	13.9	12.8	13.1	13.3	11.3	12.3	9.8	10.0	11.34	
NOV	13.1	13.3	12.6	12.1	12.1	12.0	11.2	11.7	12.1	12.0	12.7	12.4	12.6	12.1	12.1	12.6	12.4	13.1	13.5	13.7	13.3	13.5	12.8	13.8	12.61	
DEC	14.3	14.2	14.3	15.0	13.7	13.7	14.6	14.8	15.0	15.1	14.7	14.8	15.4	15.2	16.0	15.2	14.9	13.7	13.4	14.3	14.4	14.4	13.9	14.1	14.53	
TOT																										
AVE	13.1	13.1	12.7	12.5	12.3	12.0	11.9	11.8	11.9	12.4	13.1	13.2	14.0	14.4	14.7	14.5	14.4	14.3	13.9	14.2	13.8	13.8	13.4	13.5	13.29	

NO. OBSERVATIONS PER MONTH

JAN 744 FEB 400 MAR 743 APR 703 MAY 730 JUNE 0 JULY 0 AUG 0 SEPT 0 OCT 283 NOV 719 DEC 741 TOTAL 5063

PERCENT OF TOTAL OBSERV.

100.0 59.5 99.9 95.0 98.1 0 0 0 0 38.0 97.2 99.6 687.3

STN 48 BOARDMAN 130 FT
1978 79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV	
JAN	0	0	2.0	2.0	0	0	2.0	3.0	3.0	2.0	0	1.0	0	0	0	0	0	0	2.0	2.0	3.0	2.5	1.5	1.5		1.05	
FEB	6.9	5.5	5.1	5.4	6.1	6.1	5.6	5.8	5.8	7.0	8.4	9.1	10.0	10.1	11.3	10.5	11.1	9.7	10.5	11.6	9.9	9.2	8.2	7.8		8.18	
MAR	7.1	6.4	6.3	6.4	5.9	6.8	5.9	5.7	6.8	7.4	8.4	8.2	9.3	10.2	10.7	9.8	9.1	9.1	7.8	8.5	7.8	7.3	7.6	7.3		7.74	
APR	17.2	17.6	21.1	19.9	19.6	19.6	19.2	18.6	18.5	18.1	17.8	17.4	17.4	17.2	16.8	17.7	16.4	16.6	17.1	18.5	18.9	19.2	18.8	17.3		18.15	
MAY	12.5	11.2	12.5	12.2	10.3	9.8	11.0	11.7	12.2	12.3	12.4	12.4	11.5	12.2	13.2	14.0	13.7	14.0	15.0	17.7	16.0	14.8	14.5	14.0		12.95	
JULY	10.8	10.9	10.5	9.6	8.7	7.5	7.7	7.1	7.7	7.3	7.5	8.1	8.9	8.9	9.4	9.7	9.0	10.5	10.4	10.7	11.2	11.6	11.7	10.5		9.42	
AUG	11.2	11.1	10.6	10.5	9.9	9.7	9.7	9.5	9.6	9.5	10.0	10.3	10.7	12.3	12.7	13.3	14.1	12.8	12.6	12.4	12.2	10.8	10.8	11.6		11.16	
OCT	7.4	8.0	8.1	8.1	7.3	7.3	6.7	6.2	5.8	6.1	6.6	7.7	8.3	9.5	10.2	10.4	9.2	8.3	7.7	7.5	8.0	7.2	7.9	7.4		7.80	
NOV	9.1	9.3	9.1	9.1	9.2	8.1	7.9	7.1	7.3	8.1	8.6	8.8	9.0	9.1	9.5	9.7	8.6	9.7	8.5	9.4	8.8	9.4	9.1	8.5		8.79	
DEC	9.8	9.9	8.9	9.2	8.6	8.5	8.1	7.4	8.4	8.4	9.5	9.9	10.3	11.0	10.6	9.3	9.5	9.4	9.4	8.7	8.5	8.8	8.8	9.4		9.19	
TOT																											
AVE	9.6	9.4	9.4	9.3	8.9	8.6	8.4	8.1	8.4	8.7	9.3	9.8	10.2	10.7	11.1	11.0	10.6	10.4	10.1	10.5	10.2	9.9	9.9	9.6		9.67	

NO. OBSERVATIONS PER MONTH																											
JAN	39	FEB	560	MAR	718	APR	431	MAY	147	JUNE	0	JULY	667	AUG	695	SEPT	0	OCT	708	NOV	704	DEC	734	TOTAL	5507		
PERCENT OF TOTAL OBSERV.																											
	5.1		98.2		96.5		58.2		19.8		0		89.7		93.4		0		95.2		95.8		98.7		750.5		

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*WINDJAM

STN 13 WANAPUM DAM
1978-79

AVERAGE HOURLY VELOCITY FOR 1 PERIODS.
VELOCITY GIVEN IN MPH.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

MON	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	AV	
JAN	7.4	6.9	5.7	7.4	6.3	4.5	5.9	4.9	5.1	5.4	5.1	4.9	3.6	3.7	3.9	3.3	5.6	5.0	5.1	5.7	5.8	4.9	7.7	6.3	5.44		
FEB	10.6	9.3	10.7	9.3	10.3	9.3	8.8	9.1	8.5	8.1	8.4	9.3	8.2	10.3	9.7	9.7	9.5	9.2	10.6	10.6	10.9	10.1	9.7	9.4	9.56		
MAR	12.9	12.9	11.5	9.3	10.6	12.0	12.0	11.3	11.2	10.5	10.3	10.1	11.7	11.6	11.0	11.2	10.0	9.0	11.3	13.7	13.6	11.4	12.0	12.8	11.41		
APR	12.8	13.6	13.9	12.7	12.4	10.5	10.2	10.6	11.3	11.0	9.9	10.8	11.6	12.6	13.3	12.7	13.6	14.9	16.1	18.3	20.0	18.7	16.9	15.9	13.52		
MAY	18.5	18.5	17.6	17.7	15.5	14.7	14.8	14.6	14.6	11.5	10.7	9.8	10.1	10.7	12.2	15.0	19.0	21.2	23.5	24.4	25.7	23.5	19.5	19.8	16.80		
JULY	18.4	16.0	15.8	13.7	12.8	11.6	10.1	9.3	9.8	9.0	10.5	9.0	7.5	7.9	8.8	10.6	11.7	12.2	16.9	16.9	20.1	22.8	19.7	19.2	13.37		
AUG	15.4	14.7	12.6	13.1	10.7	11.2	11.2	9.7	9.6	9.0	8.0	7.4	7.2	9.3	10.3	12.3	12.0	14.8	16.5	17.0	19.0	19.3	17.5	16.8	12.68		
SEPT	13.9	14.7	13.1	10.8	10.9	11.9	11.2	9.5	8.4	10.5	9.7	9.8	6.9	8.0	10.8	12.0	12.0	14.6	15.6	15.3	15.3	18.1	16.5	14.6	12.26		
OCT	12.9	11.1	12.4	12.3	12.3	10.9	10.3	12.9	10.7	9.7	7.5	6.9	6.9	7.7	8.9	9.7	10.7	11.2	12.8	14.1	13.3	10.3	8.6	9.0	10.56		
DEC	9.9	8.7	9.5	8.1	9.7	7.3	8.7	9.8	8.1	8.1	10.8	5.9	8.4	8.1	10.1	9.7	8.9	8.0	8.5	8.4	7.5	9.2	12.3	12.2	8.96		
TOT																											
AVE	13.9	13.2	12.8	11.9	11.5	10.8	10.7	10.4	10.2	9.5	9.3	8.8	8.7	9.5	10.2	11.1	11.8	12.6	14.5	15.3	16.3	16.0	14.9	14.4	12.03		

NO. OBSERVATIONS PER MONTH																											
JAN	372	FEB	664	MAR	734	APR	718	MAY	734	JUNE	0	JULY	737	AUG	736	SEPT	345	OCT	347	NOV	0	DEC	354	TOTAL	5741		
PERCENT OF TOTAL OBSERV.																											
50.0		98.8		98.7		97.0		98.7		0		99.1		98.9		46.6		46.6		0		47.6		782.0			

Wind Rose Summaries

ALL DATA -- 477 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	1.5	1.0	.8	1.0	1.3	.4	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	14.1
NNE	.8	.4	.6	.4	0.0	.4	.4	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	14.6
NE	0.0	0.0	0.0	.2	.2	.4	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	22.2
ENE	.6	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.8	6.0
E	3.4	.6	.4	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	8.1
ESE	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	6.0
SE	.2	0.0	.2	.2	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.8	15.3
SSE	.4	.4	.2	.2	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	12.4
S	.8	1.9	2.1	1.3	1.3	1.3	.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	17.1
SSW	1.0	.8	1.5	.4	.4	.8	.4	.8	.6	.4	.2	0.0	0.0	0.0	0.0	0.0	0.0	7.5	19.7
SW	.6	.4	1.3	.4	1.3	.8	0.0	.6	0.0	.2	.2	.2	0.0	0.0	.2	0.0	0.0	6.9	22.0
WSW	1.3	.2	1.3	.8	2.1	1.9	1.3	1.7	.4	.2	.2	.4	0.0	0.0	0.0	0.0	0.0	11.7	21.8
W	.8	1.0	3.6	3.6	2.1	2.9	1.7	1.3	.8	.2	0.0	.6	0.0	0.0	.2	0.0	0.0	18.9	20.4
WNW	1.5	1.7	.8	1.5	1.5	1.9	1.3	.4	.4	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	18.3
NW	.4	.4	1.7	.8	1.5	.6	.4	0.0	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	17.7
NNW	1.9	1.5	1.9	1.0	1.5	.8	0.0	.2	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	15.5
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	15.5	10.7	16.4	11.9	13.4	12.6	5.9	6.5	2.7	2.1	.6	1.3	0.0	0.0	.4	0.0	0.0	100.0	18.0

ALL DATA -- 360 OBSERVATIONS

[illegible]

WIND ROSES RUN 79/09/17. FOR MISSION RIDGE

ALL DATA -- 211 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	.5	.5	0.0	.5	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	14.0
NNE	1.4	0.0	0.0	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	8.8
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	1.9	1.9	.9	.4	2.4	0.0	0.0	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	1.9	1.4	1.9	.5	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	14.2
ESE	1.9	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.1
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.6
SSE	1.4	1.4	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1.4	4.7	5.7	2.4	1.9	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	10.0
SSW	.5	3.8	7.1	0.0	2.4	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	14.0
SW	.9	0.0	1.4	0.0	.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	16.4
WSW	2.8	5.2	1.4	1.9	1.9	.5	.5	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	14.0
W	1.9	6.6	2.8	.5	3.3	0.0	.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	14.0
WNW	.5	1.4	2.4	0.0	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	14.1
NW	0.0	0.0	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	13.5
NNW	.5	0.0	0.0	0.0	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	15.0
CALM	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	12.5
TOTAL	19.0	27.5	24.6	7.1	14.7	.9	5.2	.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	13.7

WIND ROSES RUN 79/09/17. FOR CRYSTAL MTN

ALL DATA -- 324 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	1.2	.6	.3	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	9.0
NNE	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	6.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	.3	0.0	0.0	0.0	0.0	.6	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.6	29.5
E	1.2	1.2	5.2	2.2	1.2	2.2	1.9	.6	.3	.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	23.0
ESE	.9	.2	.9	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	18.0
SE	.3	.3	0.0	.3	0.0	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	11.5
SSE	0.0	.3	0.0	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	12.0
S	.9	.3	.6	0.0	.3	.3	0.0	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	19.0
SSW	0.0	.6	.6	.9	.3	.3	0.0	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.6
SW	.9	.9	.3	.3	.3	.6	0.0	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	17.8
WSW	1.5	.6	.9	0.0	.3	.6	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.6
W	4.0	3.7	2.2	1.5	1.2	0.0	.6	.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	13.9
WNW	5.9	2.5	3.1	1.9	2.8	0.0	.3	1.2	.3	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	13.2
NW	3.1	4.9	2.5	.9	1.5	2.2	.3	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	14.9
NNW	4.3	1.2	3.1	.3	.6	.3	.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	13.3
CALM	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	11.9
TOTAL	25.0	18.8	19.8	9.3	8.3	8.0	4.6	4.0	1.2	.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	14.5

WIND ROSES RUN 79/10/05. FOR PRINEVILLE AIRPORT

ALL DATA -- 5103 OBSERVATIONS

SPEED CATEGORIES (MPH)

DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	3.0	.1	.4	.3	.2	.2	.2	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.4
NNE	3.6	.1	.4	.6	.2	.2	.5	.3	.3	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	11.3
NE	1.9	.1	.1	.2	.1	.4	.7	.3	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	14.1
ENE	2.3	.1	.1	.1	.1	.3	.7	.3	.3	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	13.8
E	3.2	.1	.0	.1	.1	.2	1.0	.3	.4	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	12.1
ESE	3.8	.4	.1	.0	.1	.0	.5	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.3
SSE	3.3	.4	.3	.0	.2	.0	.3	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	7.5
S	5.0	.6	.1	.0	.0	.0	.2	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	4.3
SSW	2.5	.3	.3	.1	.1	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.5
SW	2.5	.6	.2	.1	0.0	0.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.7
WSW	7.6	1.2	.4	.4	.1	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	6.2
W	8.8	1.7	.6	.5	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	6.8
WNW	9.1	1.3	.1	.1	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	5.7
NW	3.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.9
NNW	4.2	.5	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	5.3
CALM	7.4	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0
TOTAL	74.7	8.6	3.5	2.6	1.2	1.5	4.4	1.5	1.5	.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	7.2

WIND RO RUN 79/10/05. FOR ADEL
ALL DATA -- 3980 OBSERVATIONS

SPEED CATEGORIES (MPH)

DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	1.3	.8	.4	.6	.4	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	12.0
NNE	2.0	1.4	.8	.4	.5	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.8
NE	1.6	1.4	.7	.7	.3	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	11.9
ENE	4.0	1.4	.6	.3	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	8.5
E	4.9	1.9	.5	.3	.2	.2	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	8.5
ESE	2.3	.6	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.8
SE	1.4	.0	.2	.2	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.9
SSE	1.6	1.5	.6	.5	.4	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	11.5
S	2.5	1.1	.7	.7	.6	.3	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	12.0
SSW	1.9	1.5	.6	.6	.2	.1	.1	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.1
SW	1.2	1.3	.9	1.6	1.1	.9	.6	.1	.3	.1	.1	.1	.1	0.0	0.0	0.0	0.0	8.8	13.1
WSW	1.6	1.1	1.4	2.0	1.6	1.0	.4	.5	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	16.9
W	2.3	2.2	2.6	3.6	2.7	1.6	.6	.5	.1	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	16.1
WNW	1.0	.8	.6	.5	.4	.1	.1	.1	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	12.8
NW	.6	.6	.9	.7	1.0	.5	.4	.3	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	17.5
NNW	1.5	.5	.7	1.5	1.0	.5	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.0
CALM	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
TOTAL	32.8	17.3	12.3	14.1	10.6	6.2	2.9	2.4	.4	.7	.1	.2	.1	0.0	.0	0.0	.0	100.0	13.2

WIND ROSES RUN 79/10/05. FOR COLUMBIA RIVER JETTY

ALL DATA -- 2149 OBSERVATIONS

SPEED CATEGORIES (MPH)

DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	6.1	2.1	1.7	1.0	.7	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	9.9
NNE	2.2	1.2	1.2	1.2	1.3	2.0	2.2	1.6	1.1	.4	.1	0.0	0.0	0.0	0.0	0.0	0.0	14.6	20.2
NE	2.5	1.1	1.4	1.6	1.0	1.4	1.2	.5	1.7	.3	.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	17.7
ENE	3.2	2.5	1.9	1.7	1.2	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	10.8
E	1.4	.7	.5	.3	.3	.4	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	11.8
ESE	.6	.0	.1	.1	.1	.0	.1	0.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	14.5
SSE	.3	.0	0.0	.2	.2	.1	.0	.1	.2	.1	.0	0.0	.0	0.0	0.0	0.0	0.0	1.4	21.7
S	.6	.0	.0	.1	.4	.1	.1	.0	.2	.1	.0	0.0	.0	0.0	0.0	0.0	0.0	1.9	19.5
SSW	2.0	.5	.8	.4	.3	.1	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.5
SW	1.6	.6	.3	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	9.5
WSW	1.3	.3	.1	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.7
W	2.6	.4	.0	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	7.7
WNW	6.7	3.1	.9	.5	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	9.2
NW	7.1	2.6	1.1	.5	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	8.9
NNW	1.0	1.0	.2	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.8
CALM	2.7	.9	.3	.2	.3	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.3
TOTAL	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
TOTAL	44.0	17.2	10.5	7.7	6.0	4.7	4.0	2.4	2.0	1.0	.3	.1	.1	0.0	.0	0.0	0.0	100.0	12.4

WIND RUN 79/10/05. FOR RIDDLE BUTTE

ALL DATA -- 1284 OBSERVATIONS

SPEED CATEGORIES (MPH)

DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	.9	.7	.2	.5	.9	.9	.5	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	17.6
NNE	.5	.1	.2	.1	.1	.1	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	16.8
NE	8.7	3.0	1.3	2.8	1.9	2.8	1.4	5.5	.5	3.7	.9	.2	0.0	0.0	0.0	0.0	0.0	32.8	19.5
ENE	.3	0.0	.1	.1	.2	.4	.3	1.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	23.8
E	.8	.5	.3	.8	1.0	1.7	.9	1.2	.1	0.5	0.0	.2	0.0	0.0	0.0	0.0	0.0	7.9	21.5
ESE	.5	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.6
SE	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	3.0
SSE	.9	.1	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.7
S	5.5	.1	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.0
SSW	5.8	.3	.1	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.3
SW	1.6	.3	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.2
WSW	7.3	3.0	1.4	.1	0.0	0.0	0.0	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	8.5
W	11.8	1.9	.2	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	6.0
WNW	3.5	.6	.1	0.0	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.7
NW	.6	.4	.2	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	10.6
NNW	1.1	.1	0.0	.2	.2	.5	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	13.0
CALM	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
TOTAL	50.6	10.9	4.6	4.7	4.5	6.4	3.3	8.4	.9	4.3	.9	.3	0.0	.2	.1	0.0	0.0	100.0	13.3

WIND ROSES RUN 79/09/21. FOR WANAPUM DAM

ALL DATA -- 5713 OBSERVATIONS

SPEED CATEGORIES (MPH)

DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	7.4	2.1	.9	.6	.1	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	8.0
NNE	2.1	.4	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.6
ENE	1.5	.2	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1
E	1.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.9
ESE	1.5	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9
SSE	1.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.7
SSE	3.8	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.6
SSW	2.8	.2	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
SW	1.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.8
WSW	.3	.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	2.9
W	6.6	4.1	2.2	3.3	3.3	3.8	2.9	3.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.9	16.6
WNW	4.9	1.7	.7	.8	1.0	3.8	2.4	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	34.0	18.9
NW	4.2	.5	.2	.2	.1	.1	.1	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	12.8	15.6
NNW	6.5	1.8	.5	.2	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.2	7.3
CALM	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0
TOTAL	51.7	12.2	5.4	5.7	5.6	5.3	3.7	5.3	1.6	1.6	.6	1.0	.3	.1	0.0	.1	.0	100.0	12.1

WIND RUN 79/10/03. FOR BRIDGER BOWL

ALL DATA -- 413 OBSERVATIONS

SPEED CATEGORIES (MPH)

DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	.5	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	8.3
NNE	.2	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	8.5
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	.2	.2	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	11.0
ESE	0.0	1.0	1.2	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.6
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	10.0
S	.5	.7	.5	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	11.3
SSW	0.0	1.2	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	10.3
SW	0.0	2.4	2.4	1.0	2.2	1.5	2.2	1.5	.7	.2	.2	0.0	.5	0.0	0.0	0.0	0.0	16.2	21.3
WSW	.5	10.4	8.7	3.6	2.2	5.1	9.4	4.8	2.2	1.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	56.9	20.5
W	.2	2.4	1.7	1.7	2.2	1.5	1.7	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	18.6
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	.2	.5	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	11.7
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.4	20.1	15.3	8.0	15.3	8.2	14.3	7.3	2.9	2.4	.5	1.9	.5	0.0	0.0	0.0	0.0	100.0	19.6

WIND ROSES RUN 79/10/03. FOR MT HOOD MEADOWS

ALL DATA -- 410 OBSERVATIONS

SPEED CATEGORIES (MPH)

	0 10	10 13	13 16	16 19	19 22	22 25	25 28	28 31	31 34	34 37	37 40	40 43	43 46	46 49	49 52	52 55	>= 55	TOTAL	MEAN SPEED
DIR																			
N	7.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	5.4
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	4.5
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.7
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	15.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	16.0
NNE	21.2	9.5	3.7	3.7	2.9	2.0	3.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.6	11.4
NNE	4.1	2.9	1.7	2.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	11.2
NNE	6.6	2.9	1.7	2.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	12.3
NNE	4.4	1.9	1.2	2.2	0.0	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	7.4
NNE	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.7
NNE	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	3.0
NNE	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	0.0
TOTAL	53.7	18.3	7.3	8.0	3.7	3.4	4.9	.5	0.0	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	10.1

WIND ROSES RUN 79/09/17. FOR STEVENS PASS

ALL DATA -- 700 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	6.0
E	31.0	6.0	2.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.7	6.4
ESE	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	3.5
SE	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	2.5
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.7
SSW	11.0	1.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	6.1
SW	11.6	1.4	.4	.4	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	7.1
WSW	14.6	6.4	1.9	1.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	8.3
W	3.7	.3	.4	.7	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	7.8
WNW	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	3.3
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	20.0
CALM	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	0.0
TOTAL	75.0	15.4	5.4	3.3	.6	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	7.1

WIND ROSES RUN 79/09/18. FOR KENNEWICK

ALL DATA -- 7159 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	7.2
NNE	.2	.1	0.0	0.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	8.3
NE	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	7.3
ENE	.3	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	6.3
E	.4	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	6.7
ESE	.4	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	7.3
SE	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	6.5
SSE	.6	.1	.1	.0	.0	.1	.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	9.6
S	2.4	1.5	.9	1.0	.7	.9	.4	.2	.3	.0	.1	.7	.5	.1	.1	.1	.3	9.1	16.0
SSW	3.9	3.2	3.3	4.1	2.9	3.4	2.7	3.2	1.2	1.3	.9	1.0	.7	.5	.1	.1	.3	32.7	21.9
SW	2.2	1.1	1.2	1.4	1.1	.9	.6	.9	.3	.4	.2	.3	.1	.0	.0	.0	.0	10.7	18.9
WSW	1.4	.4	.3	.2	.1	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	10.0
W	2.9	1.1	.4	.3	.1	.1	0.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	9.1
WNW	6.7	4.6	2.2	1.4	.3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	15.6	10.3
NW	7.0	3.5	1.0	.8	.4	.1	.2	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	13.5	10.3
NNW	2.2	.6	.1	.2	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.1
CALM	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0
TOTAL	35.5	16.5	9.5	9.4	5.7	5.7	4.0	4.9	2.0	2.0	1.2	1.5	.8	.6	.2	.1	.3	100.0	14.9

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[illegible]

WIND ROSES RUN 79/09/06. FOR KGVV RADIO

ALL DATA -- 2402 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	.4	.5	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.8
NNE	.4	.5	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	10.8
NE	.2	.4	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.0
ENE	.4	.6	.2	.2	.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	11.4
E	.5	1.3	.3	.6	.3	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	13.5
ESE	.6	.9	.4	.6	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	11.9
SE	.8	.9	.4	.4	.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	11.4
SSE	2.6	1.2	.4	.6	.0	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.9
S	1.5	.6	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	7.4
SSW	.3	.4	.1	.2	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	11.6
SW	.2	.2	.2	.3	.2	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	15.3
WSW	1.2	1.7	1.7	2.2	.9	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	13.7
W	2.7	5.0	5.5	14.9	10.3	3.5	.9	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5	16.5
WNW	1.0	2.4	2.3	4.8	5.6	2.7	1.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	17.5
NW	.5	.3	.0	.3	.7	.2	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	16.4
NNW	1.1	.4	.2	.3	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	8.2
CALM	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	0.0
TOTAL	14.8	18.3	13.0	25.6	18.2	7.5	2.3	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	15.0

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WIND ROSES RUN 79/09/05. FOR KENNEWICK

ALL DATA -- 6360 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	7.2
NNE	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	9.3
NE	.3	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	8.1
ENE	.3	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	6.7
E	.4	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.6	6.9
ESE	.4	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	7.5
SE	.2	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	7.1
SSE	.5	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	10.4
S	2.3	1.6	.8	1.0	.8	1.1	.5	.6	.2	.3	.0	.1	.0	.0	.0	.0	.0	9.4	16.7
SSW	3.6	3.1	3.0	3.9	2.8	3.3	2.6	3.3	1.3	1.4	1.0	1.2	.7	.6	.1	.1	.3	32.5	22.6
SW	2.2	1.1	1.1	1.2	1.0	.8	.6	.9	.3	.4	.3	.3	.1	.0	.0	.0	.0	10.4	19.1
WSW	1.4	1.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	10.2
W	2.9	1.2	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	9.1
WNW	6.2	4.6	2.3	1.5	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	15.3	10.6
NW	6.9	3.6	1.0	.8	.4	.1	.2	.1	.1	.0	.1	.0	.1	.1	.0	.0	.0	13.6	10.5
NNW	2.1	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	8.3
CALM	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0
TOTAL	34.8	16.5	9.2	9.2	5.7	5.8	4.0	5.1	2.1	2.2	1.4	1.7	.9	.7	.2	.1	.4	100.0	15.2

WIND ROSES RUN 79/08/29. FOR WELLS NEVADA

ALL DATA -- 6993 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	1.4	1.9	1.3	.8	.3	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.3
NNE	.9	.5	.4	.2	.2	.1	.2	.3	.0	.2	.1	.1	.0	.0	.0	.0	0.0	3.2	17.7
NE	.7	.2	.1	.1	.0	.1	0.0	.0	.0	.1	0.0	.0	0.0	0.0	.0	.0	0.0	1.3	13.3
ENE	1.1	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	6.2
E	1.9	.7	.3	.2	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.8
ESE	1.9	.3	.1	.0	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.0
SE	3.9	1.2	.6	.4	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	8.8
SSE	4.8	1.1	.3	.1	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	7.8
S	2.9	1.0	.2	.1	.1	.0	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.2
SSW	1.8	.8	.4	.3	.3	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	10.6
SW	1.7	.6	.5	.3	.4	.2	.1	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	14.0
WSW	2.1	1.7	1.2	.7	.4	.2	.2	.2	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	12.4
W	2.2	3.5	2.2	1.7	1.5	1.2	1.2	1.5	.3	.8	.1	.3	.2	.1	.0	.0	.0	19.9	16.6
WNW	2.6	2.3	2.4	3.4	3.3	2.6	1.8	1.9	.5	.8	.2	.4	.1	.1	.0	.0	.0	22.5	19.5
NW	.7	1.0	.8	3.4	.5	.2	.2	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	14.7
NNW	1.2	.9	.7	.5	.3	.2	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	12.7
CALM	.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	0.0
TOTAL	34.7	17.9	11.7	9.7	7.6	5.2	4.1	4.2	.9	2.0	.4	.8	.4	.2	.1	.0	.0	100.0	14.0

WIND ROSES RUN 79/08/29. FOR JUNIPER POINT

ALL DATA -- 6490 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	.2	.0	.0	.1	.2	.1	.2	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	18.5
NNE	.7	.6	.2	.1	.3	.1	.1	.0	0.0	.1	0.0	.0	.0	0.0	.0	.0	.0	2.2	13.8
NE	.4	.2	.1	.1	.3	.1	.1	.1	0.0	.1	.0	.1	.0	0.0	.0	.0	.0	1.7	18.2
ENE	1.2	.3	.5	.6	1.5	.2	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	14.2
E	2.9	3.8	2.7	1.1	1.7	.2	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.5
ESE	3.1	3.3	.6	.2	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	9.1
SSE	1.7	.3	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	8.4
S	1.4	.4	.0	.0	.1	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.7
SSW	1.3	.6	.1	.1	.2	.2	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	3.1	14.2
SW	1.6	.8	.2	.1	.2	.0	.1	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	11.4
WSW	1.8	.9	.5	.2	.2	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.7	15.7
W	1.7	1.6	.6	.4	.8	.2	.3	.6	.0	.2	.1	.2	.0	.0	.1	.0	.0	6.8	16.2
WNW	1.6	2.0	.8	.6	1.9	.7	1.7	3.2	.7	1.9	1.1	3.0	1.4	.6	1.1	.1	.7	22.5	29.8
NW	.8	1.4	.6	.8	1.9	1.1	2.0	3.1	1.2	2.1	1.3	2.0	.6	.3	.3	.1	.1	19.6	28.3
NNW	.3	.5	.3	.3	.6	.5	.6	1.0	.4	.3	.3	.3	.2	.1	.1	.0	.1	5.9	26.2
CALM	.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	17.2
TOTAL	19.8	17.0	7.6	4.7	10.7	3.5	6.0	9.3	2.4	4.5	2.9	5.7	2.1	1.0	1.7	.2	.9	100.0	20.6

WIND ROSES RUN 79/08/29: FOR ROOSEVELT

ALL DATA -- 5059 OBSERVATIONS

SPEED CATEGORIES (MPH)																			
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	= 55	TOTAL	MEAN SPEED
N	.6	.1	.1	.1	.0	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	10.6
NNE	1.6	.3	.3	.2	.4	.2	.3	.1	.0	.2	.0	.0	0.0	0.0	0.0	0.0	0.0	3.8	13.7
NE	2.4	1.2	.9	.9	.3	.4	.3	.2	0.0	.3	.0	.0	0.0	0.0	0.0	0.0	0.0	6.8	13.4
ENE	4.8	1.4	.8	.6	.3	.2	.1	.1	0.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	9.2
E	5.3	1.3	.3	.3	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.1
ESE	2.5	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.4
SE	.5	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	4.7
SSE	1.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0
S	1.6	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.5
SSW	1.1	.1	.0	.1	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.0
SW	1.3	.2	.1	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.5
WSW	1.9	1.1	.7	.5	.2	.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	5.4	13.0
W	6.8	5.0	3.8	5.1	4.7	4.9	4.0	2.3	.8	.9	.3	.2	.2	.0	.0	.0	.0	39.0	17.8
WNW	3.0	1.9	1.2	1.6	1.7	2.1	.8	.4	.2	.2	.0	.1	.0	.0	.0	.0	.0	13.2	16.1
NW	.8	.2	.1	.1	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.0
NNW	.9	.1	.0	.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.9
CALM	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
TOTAL	39.8	13.3	8.5	9.5	7.7	8.3	5.9	3.2	1.1	1.7	.4	.3	.2	0.0	.0	0.0	0.0	100.0	13.3

WIND ROSES RUN 79/09/05: FOR AUGSPURGER MTN

ALL DATA -- 5164 OBSERVATIONS

	SPEED CATEGORIES (MPH)																		
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55	TOTAL	MEAN SPEED
N	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	7.8
NNE	1.1	.7	.7	.2	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	10.5
NE	2.2	1.9	1.6	1.4	1.5	1.0	1.5	.9	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	16.8
ENE	2.4	1.8	1.8	1.8	1.2	.4	1.4	1.4	.4	.6	.2	.1	.0	.0	.0	.0	.0	13.2	18.0
E	1.3	.8	.4	.2	.1	.0	.1	.0	.0	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	3.0	11.9
ESE	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	6.9
SE	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	4.8
SSE	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	4.6
S	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	4.0
SSW	.4	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	4.0
SW	.3	.1	.1	.0	.0	0.0	.0	0.0	0.0	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	.6	13.7
WSW	1.3	2.4	3.3	4.0	5.8	3.4	4.6	4.1	1.0	1.4	.4	.8	.2	.2	.0	.0	.0	32.7	22.2
W	2.6	2.2	4.1	4.4	5.5	3.3	4.7	2.8	1.6	.9	.3	.4	.2	.0	.0	.0	.0	32.1	20.2
WNW	.6	.3	.0	.0	.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	8.3
NW	.1	0.0	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	12.0
NNW	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	3.9
CALM	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	0.0
TOTAL	13.7	10.3	12.1	11.9	14.2	8.2	12.2	9.0	2.3	3.2	.9	1.4	.4	.2	.0	0.0	0.0	100.0	19.1

WIND ROSES RUN 79/09/07: FOR BOARDMAN 150 FT

ALL DATA -- 5103 OBSERVATIONS

		SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
DIR	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	≥ 55			
N	5.0								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.7	
NNE	3.3	.4	.2	.7	.4	.1	.1	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	10.2	
NE	4.4	1.2	.3	.6	.4	.2	.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	8.8	
ENE	4.2	1.0	.1	.4	.4	.3	.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	8.6	
E	4.9	.3	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	4.4	
ESE	1.6	0.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	
SE	1.7	0.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	
SSE	.7	.1	.0	.1	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	5.6	
S	4.6	.5	.2	.0	.1	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.0	
SSW	4.1	1.4	.6	.6	.4	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	9.0	
SW	6.1	2.6	1.5	2.5	1.8	1.6	.6	.5	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	13.4	
WSW	4.0	1.2	.8	1.1	2.0	1.5	1.0	.9	.3	.3	.1	.0	0.0	0.0	0.0	0.0	0.0	13.0	16.1	
W	6.5	.6	.4	.4	.4	.3	.1	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	7.1	
WNW	1.3	.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	
NW	1.5	.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.3	
NNW	3.0	.1	.1	.1	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.6	
CALM	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	
TOTAL	61.9	10.7	4.4	6.8	6.6	4.4	2.0	2.4	.4	.4	.1	.0	0.0	0.0	0.0	0.0	0.0	100.0	9.1	

WIND ROSES RUN 79/09/07: FOR CAPE BLANCO BPA

ALL DATA -- 7890 OBSERVATIONS

		SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
DIR	0 10	10 13	13 16	16 19	19 22	22 25	25 28	28 31	31 34	34 37	37 40	40 43	43 46	46 49	49 52	52 55	≥ 55			
N	1.8	1.3	1.4	1.4	1.5	1.2	1.1	.9	.2	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	11.0	17.6	
NNE	2.8	3.0	3.2	5.5	5.3	4.7	3.0	1.7	.5	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	30.2	18.7	
NE	1.8	1.4	.9	1.1	.4	.2	.1	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	13.0	
ENE	1.4	1.3	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.1	
E	1.3	.4	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.4	
ESE	1.5	.4	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.3	
SE	1.3	.2	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	6.5	
SSE	2.4	1.7	.7	.5	.2	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	10.1	
S	2.8	2.7	1.5	2.8	2.8	2.3	1.9	2.4	1.2	1.9	1.0	1.5	.6	.8	1.0	.5	1.9	29.5	27.2	
SSW	1.6	.6	.3	.3	.3	.2	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	4.2	13.9	
SW	1.5	.3	.2	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	12.1	
WSW	.5	.1	.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.6	7.3	
W	.6	.1	.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	6.0	
WNW	.6	.2	.0	.0	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	7.6	
NW	1.4	.1	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.7	
NNW	1.0	.5	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.1	
CALM	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	0.0	
TOTAL	22.6	13.0	9.0	12.0	10.7	8.9	6.3	5.3	2.0	2.7	1.1	1.6	.6	.8	1.0	.5	1.9	100.0	10.5	

WIND ROSES RUN 79/09/05: FOR GOODNOE HILLS

ALL DATA -- 6597 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	.8	.5	.4	.3	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.3
NNE	.3	.3	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	9.4
NE	.1	.3	.2	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	12.1
ENE	.5	.5	.2	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	10.4
E	1.2	1.1	.7	.6	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.3
ESE	1.0	.7	.5	.4	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	10.0
SE	3.1	.8	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	6.9
SSE	4.0	.7	.2	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	6.8
S	5.0	.7	.2	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.6
SSW	2.2	.4	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.3
SW	1.4	.1	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.3
WSW	1.9	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.9
W	3.4	1.9	1.1	1.4	1.0	1.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	13.2
WNW	1.8	1.6	1.3	1.4	1.8	1.5	1.3	.6	.1	.1	.0	.1	0.0	.0	.0	.0	.0	13.3	17.6
NW	1.3	1.2	1.2	3.3	3.0	3.0	2.7	3.4	1.0	1.2	.4	.2	.0	.0	.0	.0	.1	22.1	22.6
NNW	1.5	1.3	1.2	2.5	2.1	3.1	2.4	2.2	1.3	1.0	.3	.3	.1	.0	.0	.0	.0	19.6	22.2
CALM	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
TOTAL	30.9	12.2	7.7	12.3	8.4	8.3	7.0	6.5	2.4	2.4	.8	.6	.1	.2	.1	.0	.1	100.0	15.7

WIND ROSES RUN 79/09/06: FOR PRAIRIE MTN

ALL DATA -- 6643 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	6.8	2.4	1.1	.4	.3	.2	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	8.5
NNE	.8	.3	.3	.3	.4	.2	.2	.2	.1	.1	0.0	.1	.0	.0	0.0	0.0	0.0	2.9	17.0
NE	3.7	1.3	1.1	.8	.7	.6	.5	.5	.1	.1	.1	.1	.0	.1	0.0	0.0	0.0	9.6	14.0
ENE	1.2	.4	.4	.4	.5	.2	.3	.1	.0	.0	.0	.1	.0	.0	0.0	0.0	0.0	5.7	15.7
E	2.5	.9	.5	.3	.3	.2	.3	.1	0.0	.1	.1	.2	.1	.2	.0	0.0	0.0	5.7	14.3
ESE	1.2	.5	.5	.8	.6	.3	.3	.4	.1	.3	.3	.4	.1	.0	.1	.0	.0	6.1	20.8
SE	3.4	1.4	1.5	1.1	1.0	.4	.3	1.0	.4	.4	.1	.0	.0	0.0	0.0	.0	.0	11.2	15.2
SSE	3.3	1.0	.7	.5	.5	.4	.4	.5	.2	.2	.1	.1	.0	.0	.1	.0	.0	8.0	14.4
S	6.1	2.0	1.6	1.0	1.1	.3	.8	1.2	.4	.4	.5	.4	.2	.2	.0	.0	.1	17.0	16.5
SSW	1.9	.6	.5	.8	.6	.4	.5	.6	.1	.1	.0	.2	.0	.0	.1	.0	.0	6.4	17.0
SW	1.4	.4	.3	.4	.3	.1	.1	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	12.1
WSW	.9	.4	.2	.3	.3	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.5
W	1.2	.6	.4	.3	.6	.2	.2	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	13.9
WNW	.9	.5	.4	.2	.2	.1	.1	.2	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	13.9
NW	.8	.5	.6	.4	.4	.2	.1	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	14.6
NNW	.5	.3	.3	.2	.2	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	12.4
CALM	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
TOTAL	38.0	13.4	10.3	8.3	8.0	4.6	4.2	5.2	1.6	1.8	1.2	1.5	.5	.5	.5	.1	.2	100.0	14.4

WIND ROSES RUN 79/09/20. FOR MARYS PEAK

ALL DATA -- 696 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	.3	0.0	.6	0.0	.3	.3	.4	.7	.3	.1	.4	.4	0.0	0.0	0.0	0.0	0.0	3.9	26.3
NNE	.9	.7	1.1	.3	.4	.4	.4	.7	.3	.1	.3	0.0	0.0	0.0	0.0	0.0	0.0	5.7	18.8
NE	1.1	.1	1.7	.9	.1	0.0	.3	.1	.1	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	15.8
ENE	.3	.9	.9	1.0	.6	.4	.3	.6	.1	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	18.6
E	1.4	.7	1.6	.6	1.1	1.3	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	19.3
ESE	.6	.6	.4	.3	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.0
SSE	.6	1.1	.1	.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.0
SSE	1.1	.6	.4	0.0	0.0	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.4
SSW	.7	.6	.7	.6	.4	.7	.4	.1	0.0	.4	.4	1.3	.7	0.0	0.0	0.0	0.0	12.1	21.7
SW	1.1	2.6	1.6	.9	1.6	0.0	.6	.7	.1	.4	.4	1.0	.3	.3	.1	.1	0.0	12.1	25.6
WSW	1.0	1.7	.7	.1	1.3	.3	.9	1.7	.7	1.1	.4	1.0	.3	.3	.1	.1	0.0	9.3	22.5
WSW	2.0	1.0	0.0	.6	1.3	.4	.4	1.3	.7	.3	.1	.1	.1	.6	.1	.1	0.0	9.3	18.9
W	3.4	.9	.1	.3	.4	0.0	0.0	.6	1.0	.9	.4	.4	.1	0.0	.1	0.0	0.0	8.8	23.0
WNW	2.3	.6	.1	.3	.1	0.0	.3	1.6	.7	.7	.3	.9	.3	0.0	0.0	0.0	0.0	8.2	17.7
NW	2.3	.6	.1	.3	.1	0.0	.7	.4	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	4.5	14.5
NNW	1.0	1.0	.6	.9	.1	.7	.6	.7	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	5.7	17.5
CALM	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
TOTAL	20.5	13.8	11.1	7.0	8.5	5.0	5.6	9.5	4.3	4.5	2.7	4.2	1.6	.9	.6	.3	0.0	100.0	19.5

WIND ROSES RUN 79/09/07. FOR BOARDMAN 130 FT

ALL DATA -- 5103 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	5.0	.4	.2	.2	.4	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.7
NNE	3.3	.4	.3	.7	.7	.2	.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	10.2
NE	4.4	1.2	.3	.6	.4	.2	.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	8.8
ENE	4.2	1.0	.1	.4	.4	.3	.1	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	8.8
E	4.9	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	4.4
ESE	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.2
SE	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
SSE	.7	.1	.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	5.6
SSW	4.6	.5	.2	.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.0
SW	4.1	1.4	.6	.6	.4	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	9.0
WSW	6.1	2.6	1.5	2.5	1.8	1.6	.6	.5	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	13.4
W	4.0	1.2	.8	1.1	2.0	1.5	1.0	.9	.3	.3	.1	.0	0.0	0.0	0.0	0.0	0.0	13.0	16.1
WNW	6.5	.6	.2	.4	.4	.3	.1	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	7.7
NW	1.3	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2
NNW	1.5	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.3
CALM	3.0	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.6
TOTAL	61.9	10.7	4.4	6.8	6.6	4.4	2.0	2.4	.4	.4	.1	.0	0.0	0.0	0.0	0.0	0.0	100.0	9.1

WIND ROSES RUN 79/09/12. FOR 7 MILE HILL TWR 150 FT

ALL DATA -- 5135 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	.5	.0	.0	0.0	.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.6	5.4
NNE	.5	.0	.1	0.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	7.2
NE	.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	4.3
ENE	.8	.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.9	4.9
E	4.6	3.0	1.3	.2	.3	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.0
ESE	8.7	4.8	3.9	1.1	.7	.1	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	9.8
SSE	3.2	1.0	.8	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	8.7
S	3.8	.4	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	5.5
SSW	1.9	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.8
SW	.6	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	3.3
WSW	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	4.5
W	.6	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.7	4.3
WNW	1.5	.4	.5	.0	.1	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	3.2	12.5
NW	3.4	2.3	2.9	1.6	4.3	2.4	4.5	3.9	1.8	2.6	1.2	1.1	.3	.1	.0	.0	.1	32.3	22.9
NNW	1.9	1.5	1.5	.9	1.5	1.1	2.6	2.0	.7	.8	.4	.2	.1	.1	.0	.0	.1	15.8	22.3
NW CALM	2.3	.4	.3	.0	.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.3
CALM	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
TOTAL	35.5	14.0	11.6	4.2	7.2	3.7	7.4	6.1	2.5	3.5	1.7	1.5	.5	.1	.1	0.0	.1	100.0	15.3

56

WIND ROSES RUN 79/09/12. FOR 7 MILE HILL TWR 50 FT

ALL DATA -- 5539 OBSERVATIONS

DIR	SPEED CATEGORIES (MPH)																	TOTAL	MEAN SPEED
	0 TO 10	10 TO 13	13 TO 16	16 TO 19	19 TO 22	22 TO 25	25 TO 28	28 TO 31	31 TO 34	34 TO 37	37 TO 40	40 TO 43	43 TO 46	46 TO 49	49 TO 52	52 TO 55	>= 55		
N	.3	.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.4	5.6
NNE	.5	.0	.0	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.6	6.5
NE	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	5.9
ENE	.6	.0	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.6	5.1
E	5.9	1.8	1.1	.3	.1	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	7.9
ESE	8.4	3.0	2.6	.6	.2	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	8.6
SE	2.9	.7	.6	.2	.1	.1	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	7.6
SSE	3.4	.3	.2	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.3
S	1.1	.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.2
SSW	.4	0.0	0.0	.1	.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	4.2
SW	.1	.0	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	10.6
WSW	.6	.2	.1	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	9.2
W	1.2	.7	1.4	1.4	.5	.2	.2	.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	13.7
WNW	3.4	2.4	4.0	3.6	3.8	2.2	3.5	.0	.8	1.7	.4	.4	.1	.0	.0	.0	.0	29.1	20.4
NW	2.9	1.6	2.5	1.8	3.4	1.8	3.2	.3	.6	.2	.2	.2	.1	.0	.0	.0	.0	20.7	19.5
NNW	2.2	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.8
NW CALM	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
TOTAL	37.6	11.2	12.9	8.3	8.5	4.5	7.1	5.0	1.1	2.3	.6	.6	.2	.0	.1	0.0	.0	100.0	13.8

Power Density Summaries

STN 59 PRAIRIE MTN
1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - -	TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	8.46719E 02	4.45374E 05	526	0	0	21.9	100.00
FEB	1.01649E 03	6.49791E 05	639	0	0	17.4	100.00
MAR	4.89109E 02	3.45311E 05	706	0	0	15.4	100.00
APR	2.72059E 02	1.91530E 05	704	0	0	12.4	100.00
MAY	3.70403E 02	2.67061E 05	721	0	0	15.5	100.00
JUNE	7.21382E 01	4.93425E 04	684	0	0	8.3	100.00
JULY	4.69291E 01	3.66047E 04	780	0	0	7.0	100.00
AUG	4.60864E 02	3.40118E 05	738	0	0	17.9	100.00
SEPT	6.20717E 02	3.94776E 05	636	0	0	21.1	100.00
OCT	2.57370E 02	1.90968E 05	742	0	0	12.8	100.00
NOV	7.03131E 02	4.87270E 05	693	0	0	19.2	100.00
DEC	6.35147E 02	4.28724E 05	675	0	0	17.4	100.00
PERIOD TOTAL	4.64201E 02	3.82687E 06	8244	0	0	15.3	100.00

STN . 87 7 MI. HILL TWR 150 FT
1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - -	TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	1.38321E 02	9.94525E 04	719	0	0	9.9	100.00
FEB	2.03327E 02	1.36636E 05	672	0	0	10.3	100.00
MAR	4.70651E 02	3.47811E 05	739	0	0	15.0	100.00
APR	1.12285E 03	2.96434E 05	264	0	0	24.6	100.00
MAY	1.13830E 03	5.61183E 05	493	0	0	23.3	100.00
JUNE	1.32142E 03	2.65605E 05	201	0	0	24.5	100.00
JUL	4.90576E 02	3.21818E 05	666	0	0	15.7	100.00
AUG	3.44779E 02	2.41001E 05	699	0	0	12.4	100.00
SEP	6.10791E 02	4.47099E 05	732	0	0	17.4	100.00
PERIOD TOTAL	5.25031E 02	2.71704E 06	5175	0	0	15.4	100.00

STN 36 CAPE BLANCO BPA
1978-79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - -	TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	8.01247E 02	5.85711E 05	731	0	0	15.7	100.00
FEB	3.30815E 03	2.22308E 06	672	0	0	28.5	100.00
MAR	8.60445E 02	6.03172E 05	701	0	0	17.7	100.00
APR	4.93827E 02	2.54815E 05	516	0	0	13.9	100.00
MAY	8.72914E 02	6.49448E 05	744	0	0	21.4	100.00
JUNE	2.99131E 02	2.15075E 05	719	0	0	14.5	100.00
JULY	6.43170E 02	3.54387E 05	651	0	0	20.2	100.00
AUG	1.04390E 03	4.58274E 05	439	0	0	19.4	100.00
SEPT	8.07789E 02	5.24255E 05	649	0	0	17.1	100.00
OCT	4.88601E 02	3.63519E 05	744	0	0	17.8	100.00
NOV	8.31101E 02	5.95899E 05	717	0	0	19.1	100.00
DEC	7.39763E 02	5.49644E 05	743	0	0	17.0	100.00
PERIOD TOTAL	9.30770E 02	7.37728E 05	7926	0	0	18.5	100.00

STN 32 PFQUOP SUMMIT
1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER	- - - TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	3.11532E 02	2.31780E 05	744	0	0	14.4	100.00
FEB	4.74385E 02	2.47155E 05	521	0	0	16.8	100.00
MAR	1.68076E 02	9.88289E 04	588	0	0	12.1	100.00
APR	4.48515E 02	3.22931E 05	720	0	0	17.1	100.00
MAY	2.59933E 02	1.09692E 05	422	0	0	15.2	100.00
JUNE	2.58992E 02	1.85438E 05	716	0	0	14.4	100.00
JULY	1.33756E 02	1.02190E 05	764	0	0	11.6	100.00
AUG	1.44877E 02	1.07644E 05	743	0	0	12.7	100.00
SEPT	1.93007E 02	1.07119E 05	555	0	0	12.4	100.00
OCT	1.23428E 02	9.03495E 04	732	0	0	10.6	100.00
NOV	2.26039E 02	1.67947E 05	743	0	0	12.5	100.00
DEC	7.78758E 02	2.65560E 05	341	0	0	21.8	100.00
PERIOD TOTAL	2.68366E 02	2.03663E 06	7589	0	0	13.9	100.00

STN 34 KENNEWICK
1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - -	TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA BELOW	PTS. 0	NO. DATA ABOVE	PTS. 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	7.74992E 01	5.42494E 04	700		0		0	6.6	100.00
FEB	6.17484E 02	3.05037E 05	494		0		0	18.8	100.00
MAR	2.13716E 02	1.59005E 05	744		0		0	12.0	100.00
APR	2.78957E 02	1.97223E 05	707		0		0	13.3	100.00
MAY	4.71206E 02	3.49635E 05	742		0		0	16.4	100.00
JUNE	5.97377E 02	4.03827E 05	676		0		0	18.2	100.00
JULY	5.04498E 02	3.75346E 05	744		0		0	16.3	100.00
AUG	2.13888E 02	4.81249E 04	225		0		0	13.7	100.00
SEPT	5.34306E 02	4.96904E 04	93		0		0	15.8	100.00
OCT	3.99025E 02	2.92485E 05	733		0		0	13.4	100.00
NOV	1.00228E 03	5.92349E 05	591		0		0	17.1	100.00
DEC	1.00981E 03	7.51302E 05	744		0		0	18.1	100.00
PERIOD TOTAL	4.97466E 02	3.57827E 06	7193		0		0	14.8	100.00

STN 31 GOODNOE HILLS
1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - -	TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	7.84264E 01	3.57629E 04	456	0	0	6.9	100.00
FEB	3.82716E 02	2.18914E 05	572	0	0	14.3	100.00
MAR	3.46603E 02	2.35343E 05	679	0	0	15.1	100.00
APR	4.58700E 02	2.50450E 05	546	0	0	16.7	100.00
MAY	6.53031E 02	4.69529E 05	719	0	0	19.1	100.00
JUNF	6.84072E 02	1.40919E 05	206	0	0	19.8	100.00
JULY	5.30904E 02	3.93400E 05	741	0	0	17.6	100.00
AUG	5.45623E 02	4.05944E 05	744	0	0	18.3	100.00
SEPT	4.29513E 02	3.09249E 05	720	0	0	16.6	100.00
OCT	3.67922E 02	2.05668E 05	559	0	0	13.5	100.00
NOV	1.49691E 02	3.33810E 04	223	0	0	7.5	100.00
DEC	4.34716E 02	3.22560E 05	742	0	0	15.6	100.00
PERIOD TOTAL	4.37400E 02	3.02112E 06	6907	0	0	15.6	100.00

SIN 79 JUNIPER POINT
 1978 79

POWER GENERATED FOR 1 PERIODS.
 POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER	- - - TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	4.45136E 02	3.26285E 05	733	0	0	14.0	100.00
FEB	1.49023E 03	9.93980E 05	667	0	0	24.6	100.00
MAR	9.89739E 02	6.76846E 05	744	0	0	20.2	100.00
APR	1.31333E 03	9.45601E 05	720	0	0	23.9	100.00
MAY	8.76137E 02	1.53324E 05	175	0	0	21.0	100.00
AUG	1.02259E 03	6.99449E 05	684	0	0	22.5	100.00
SEPT	9.23929E 02	6.65229E 05	720	0	0	21.5	100.00
OCT	7.73759E 02	5.74129E 05	742	0	0	18.2	100.00
NOV	9.44695E 02	6.77347E 05	717	0	0	18.2	100.00
DEC	1.50722E 03	1.02793E 06	682	0	0	24.0	100.00
PERIOD TOTAL	1.02371E 03	6.74012E 06	6584	0	0	20.7	100.00

STN 14 KCIV RADIO STATION
1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - - TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
FEB	3.86188E 02 1.14698E 05	297	0	0	17.7	100.00
MAR	1.56904E 02 1.15795E 05	738	0	0	12.0	100.00
APR	2.54186E 02 1.82760E 05	719	0	0	15.7	100.00
MAY	2.79705E 02 1.80410E 05	645	0	0	15.7	100.00
JUNE	2.35815E 02 1.21209E 05	514	0	0	15.0	100.00
JULY	2.20833E 02 1.43762E 05	651	0	0	14.4	100.00
AUG	2.81262E 02 9.05665E 04	322	0	0	16.7	100.00
OCT	2.48558E 02 1.98847E 03	8	0	0	16.8	100.00
PERIOD TOTAL	2.44270E 02 9.51188E 05	3894	0	0	14.9	100.00

STN 37 AUGSPURGER MTN
1978-79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - -	TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	1.15554E 03	3.47818E 05	301	0	0	27.0	100.00
MAR	2.31630E 02	8.24604E 04	356	0	0	14.2	100.00
APR	4.28745E 02	1.17905E 05	275	0	0	18.0	100.00
MAY	5.93945E 02	4.41895E 05	744	0	0	20.0	100.00
JULY	8.58091E 02	5.24294E 05	611	0	0	21.6	100.00
AUG	4.12390E 02	3.01045E 05	730	0	0	16.6	100.00
SEPT	3.22571E 02	1.51286E 05	469	0	0	16.5	100.00
OCT	5.20627E 02	1.51271E 05	304	0	0	19.2	100.00
NOV	4.89729E 02	3.51136E 05	717	0	0	18.2	100.00
DEC	7.49864E 02	4.87411E 05	650	0	0	21.0	100.00
PERIOD TOTAL	5.74660E 02	2.96352E 06	5157	0	0	19.1	100.00

STN 86 7 MI. HILL TWR 50 FT

1978 79

POWER GENERATED FOR 1 PERIODS.
POWER GIVEN IN WATTS/METER SQUARED.

VELOCITY RANGE FOR THIS RUN 0 TO 98

JAN TO DEC

	MEAN POWER - - - TOTAL POWER	NO. DATA PTS. WITHIN RANGE	NO. DATA PTS. BELOW 0	NO. DATA PTS. ABOVE 98	MEAN VELOC. WITHIN RANGE	PERCENT TIME WITHIN RANGE
JAN	9.82269E 01 7.29826E 04	743	0	0	8.4	100.00
FEB	2.99908E 02 1.57752E 05	526	0	0	11.8	100.00
MAR	3.01791E 02 2.17289E 05	720	0	0	12.7	100.00
APR	6.15866E 02 4.43423E 05	720	0	0	18.8	100.00
MAY	1.00597E 03 3.90316E 05	388	0	0	23.4	100.00
JUN	2.45460E 02 7.46198E 04	304	0	0	12.2	100.00
NOV	2.22326E 02 1.58518E 05	713	0	0	10.0	100.00
DEC	4.89803E 02 3.52658E 05	720	0	0	15.5	100.00
PERIOD TOTAL	3.86338E 02 1.86756E 06	4834	0	0	13.7	100.00

High Wind Summaries

STATION	AUGSPURGER MTN						
25	DEC	1978	100	PST	50	MPH	250 DEGREES
25	DEC	1978	200	PST	50	MPH	250 DEGREES

STATION	GOODNOE HILLS						
15	JULY	1978	1800	PST	50	MPH	320 DEGREES
15	JULY	1978	1900	PST	54	MPH	330 DEGREES
15	JULY	1978	2000	PST	51	MPH	330 DEGREES
22	DEC	1978	1400	PST	50	MPH	300 DEGREES
5	FEB	1979	1200	PST	52	MPH	320 DEGREES
6	FEB	1979	1500	PST	54	MPH	300 DEGREES
6	FEB	1979	1600	PST	52	MPH	310 DEGREES
6	FEB	1979	1700	PST	62	MPH	310 DEGREES
6	FEB	1979	1800	PST	60	MPH	320 DEGREES
6	FEB	1979	1900	PST	56	MPH	320 DEGREES
6	FEB	1979	2000	PST	50	MPH	320 DEGREES
27	MAY	1979	1400	PST	50	MPH	330 DEGREES

STATION	WELLS NEVADA						
9	JUNE	1978	1100	PST	60	MPH	260 DEGREES
10	JUNE	1978	1700	PST	50	MPH	280 DEGREES
23	DEC	1978	300	PST	50	MPH	30 DEGREES
23	DEC	1978	400	PST	54	MPH	40 DEGREES
23	DEC	1978	500	PST	50	MPH	40 DEGREES
14	FEB	1979	1100	PST	50	MPH	290 DEGREES
13	APR	1979	800	PST	50	MPH	280 DEGREES

STATION	CAPE BLANCO BPA						
23	AUG	1978	1700	PST	50	MPH	180 DEGREES
23	AUG	1978	1800	PST	54	MPH	180 DEGREES
23	AUG	1978	1900	PST	58	MPH	180 DEGREES
23	AUG	1978	2000	PST	60	MPH	180 DEGREES
23	AUG	1978	2100	PST	62	MPH	180 DEGREES
23	AUG	1978	2200	PST	66	MPH	180 DEGREES
23	AUG	1978	2300	PST	60	MPH	180 DEGREES
23	AUG	1978	2400	PST	58	MPH	180 DEGREES
24	AUG	1978	100	PST	60	MPH	180 DEGREES
24	AUG	1978	200	PST	62	MPH	180 DEGREES
24	AUG	1978	300	PST	60	MPH	180 DEGREES
24	AUG	1978	400	PST	60	MPH	180 DEGREES
24	AUG	1978	500	PST	60	MPH	180 DEGREES
8	SEPT	1978	400	PST	50	MPH	180 DEGREES
8	SEPT	1978	500	PST	50	MPH	180 DEGREES
8	SEPT	1978	800	PST	50	MPH	180 DEGREES
8	SEPT	1978	900	PST	56	MPH	180 DEGREES
8	SEPT	1978	1000	PST	56	MPH	180 DEGREES
8	SEPT	1978	1100	PST	54	MPH	180 DEGREES
8	SEPT	1978	1200	PST	54	MPH	180 DEGREES
8	SEPT	1978	1300	PST	50	MPH	180 DEGREES
8	SEPT	1978	1400	PST	54	MPH	180 DEGREES
8	SEPT	1978	1500	PST	54	MPH	180 DEGREES
8	SEPT	1978	1600	PST	54	MPH	180 DEGREES
8	SEPT	1978	1700	PST	54	MPH	180 DEGREES
8	SEPT	1978	1800	PST	52	MPH	180 DEGREES
8	SEPT	1978	1900	PST	54	MPH	180 DEGREES
8	SEPT	1978	2000	PST	54	MPH	180 DEGREES
8	SEPT	1978	2100	PST	54	MPH	180 DEGREES
8	SEPT	1978	2200	PST	54	MPH	180 DEGREES
8	SEPT	1978	2300	PST	58	MPH	180 DEGREES
8	SEPT	1978	2400	PST	60	MPH	180 DEGREES
9	SEPT	1978	100	PST	60	MPH	180 DEGREES
9	SEPT	1978	200	PST	56	MPH	180 DEGREES
9	SEPT	1978	300	PST	54	MPH	180 DEGREES
9	SEPT	1978	400	PST	60	MPH	180 DEGREES
9	SEPT	1978	500	PST	58	MPH	180 DEGREES
9	SEPT	1978	600	PST	60	MPH	180 DEGREES
9	SEPT	1978	700	PST	62	MPH	180 DEGREES
9	SEPT	1978	800	PST	58	MPH	180 DEGREES
9	SEPT	1978	900	PST	60	MPH	180 DEGREES
9	SEPT	1978	1000	PST	50	MPH	180 DEGREES
15	NOV	1978	600	PST	50	MPH	190 DEGREES
15	NOV	1978	700	PST	52	MPH	190 DEGREES

15	NOV	1978	800	PST	56	MPH	180	DEGR
15	NOV	1978	900	PST	54	MPH	180	DEGR
15	NOV	1978	1000	PST	50	MPH	190	DEGR
15	NOV	1978	1100	PST	50	MPH	180	DEGR
15	NOV	1978	1300	PST	50	MPH	180	DEGR
15	NOV	1978	1400	PST	56	MPH	180	DEGR
15	NOV	1978	1500	PST	52	MPH	180	DEGR
18	NOV	1978	1200	PST	50	MPH	200	DEGR
18	NOV	1978	1300	PST	50	MPH	180	DEGR
18	NOV	1978	1400	PST	56	MPH	180	DEGR
18	NOV	1978	1500	PST	56	MPH	180	DEGR
18	NOV	1978	1600	PST	56	MPH	180	DEGR
18	NOV	1978	1700	PST	50	MPH	180	DEGR
18	NOV	1978	1800	PST	50	MPH	180	DEGR
18	NOV	1978	1900	PST	54	MPH	180	DEGR
8	DEC	1978	2300	PST	50	MPH	180	DEGR
8	DEC	1978	2400	PST	50	MPH	180	DEGR
9	DEC	1978	100	PST	50	MPH	180	DEGR
9	DEC	1978	300	PST	50	MPH	180	DEGR
9	DEC	1978	400	PST	50	MPH	180	DEGR
10	DEC	1978	1200	PST	50	MPH	190	DEGR
10	DEC	1978	1300	PST	50	MPH	180	DEGR
10	DEC	1978	1400	PST	50	MPH	180	DEGR
10	DEC	1978	1600	PST	50	MPH	180	DEGR
10	DEC	1978	1700	PST	50	MPH	180	DEGR
10	DEC	1978	1900	PST	50	MPH	180	DEGR
10	DEC	1978	2000	PST	50	MPH	180	DEGR
10	DEC	1978	2100	PST	50	MPH	180	DEGR
10	DEC	1978	2200	PST	50	MPH	180	DEGR
10	DEC	1978	2300	PST	50	MPH	180	DEGR
16	DEC	1978	1300	PST	50	MPH	180	DEGR
16	DEC	1978	1400	PST	60	MPH	180	DEGR
16	DEC	1978	1500	PST	60	MPH	180	DEGR
9	JAN	1979	2000	PST	53	MPH	180	DEGR
9	JAN	1979	2100	PST	57	MPH	180	DEGR
9	JAN	1979	2200	PST	59	MPH	180	DEGR
9	JAN	1979	2300	PST	53	MPH	180	DEGR
9	JAN	1979	2400	PST	63	MPH	180	DEGR
10	JAN	1979	100	PST	64	MPH	180	DEGR
10	JAN	1979	200	PST	56	MPH	180	DEGR
10	JAN	1979	300	PST	69	MPH	180	DEGR
10	JAN	1979	400	PST	73	MPH	180	DEGR
10	JAN	1979	500	PST	72	MPH	180	DEGR
10	JAN	1979	600	PST	76	MPH	180	DEGR
10	JAN	1979	700	PST	67	MPH	180	DEGR
10	JAN	1979	800	PST	60	MPH	180	DEGR
10	JAN	1979	900	PST	54	MPH	180	DEGR
13	JAN	1979	2200	PST	54	MPH	180	DEGR
13	JAN	1979	2300	PST	59	MPH	190	DEGR
13	JAN	1979	2400	PST	63	MPH	180	DEGR
14	JAN	1979	100	PST	64	MPH	180	DEGR
14	JAN	1979	200	PST	50	MPH	180	DEGR
14	JAN	1979	300	PST	56	MPH	180	DEGR
14	JAN	1979	400	PST	57	MPH	180	DEGR
14	JAN	1979	500	PST	50	MPH	180	DEGR
8	FEB	1979	1200	PST	51	MPH	190	DEGR
8	FEB	1979	1300	PST	52	MPH	190	DEGR
8	FEB	1979	1400	PST	53	MPH	190	DEGR
8	FEB	1979	1500	PST	58	MPH	180	DEGR
8	FEB	1979	1600	PST	58	MPH	180	DEGR
8	FEB	1979	1700	PST	60	MPH	180	DEGR
8	FEB	1979	1800	PST	60	MPH	190	DEGR
8	FEB	1979	1900	PST	55	MPH	190	DEGR
8	FEB	1979	2000	PST	56	MPH	190	DEGR
8	FEB	1979	2100	PST	56	MPH	190	DEGR
8	FEB	1979	2200	PST	54	MPH	190	DEGR
8	FEB	1979	2300	PST	56	MPH	180	DEGR
8	FEB	1979	2400	PST	54	MPH	190	DEGR
9	FEB	1979	100	PST	53	MPH	180	DEGR
9	FEB	1979	200	PST	50	MPH	190	DEGR
9	FEB	1979	300	PST	50	MPH	190	DEGR
9	FEB	1979	400	PST	50	MPH	190	DEGR
9	FEB	1979	800	PST	52	MPH	190	DEGR

10	FEB	1979	800	PST	60	MPH	180	DEGREES
10	FEB	1979	900	PST	60	MPH	190	DEGREES
10	FEB	1979	1000	PST	55	MPH	190	DEGREES
10	FEB	1979	1100	PST	55	MPH	190	DEGREES
10	FEB	1979	1200	PST	56	MPH	180	DEGREES
10	FEB	1979	1300	PST	59	MPH	180	DEGREES
10	FEB	1979	1400	PST	62	MPH	180	DEGREES
10	FEB	1979	1500	PST	61	MPH	190	DEGREES
10	FEB	1979	1600	PST	58	MPH	190	DEGREES
10	FEB	1979	1700	PST	52	MPH	190	DEGREES
10	FEB	1979	1800	PST	50	MPH	190	DEGREES
10	FEB	1979	1900	PST	50	MPH	190	DEGREES
10	FEB	1979	2000	PST	50	MPH	190	DEGREES
12	FEB	1979	600	PST	50	MPH	180	DEGREES
12	FEB	1979	700	PST	52	MPH	180	DEGREES
12	FEB	1979	800	PST	52	MPH	190	DEGREES
12	FEB	1979	900	PST	60	MPH	180	DEGREES
12	FEB	1979	1000	PST	58	MPH	190	DEGREES
12	FEB	1979	1100	PST	68	MPH	190	DEGREES
12	FEB	1979	1200	PST	74	MPH	180	DEGREES
12	FEB	1979	1300	PST	76	MPH	180	DEGREES
12	FEB	1979	1400	PST	75	MPH	180	DEGREES
12	FEB	1979	1500	PST	75	MPH	190	DEGREES
12	FEB	1979	1600	PST	80	MPH	180	DEGREES
12	FEB	1979	1700	PST	80	MPH	190	DEGREES
12	FEB	1979	1800	PST	80	MPH	190	DEGREES
12	FEB	1979	1900	PST	75	MPH	190	DEGREES
12	FEB	1979	2000	PST	72	MPH	200	DEGREES
12	FEB	1979	2100	PST	66	MPH	190	DEGREES
12	FEB	1979	2200	PST	63	MPH	190	DEGREES
12	FEB	1979	2300	PST	63	MPH	190	DEGREES
12	FEB	1979	2400	PST	58	MPH	190	DEGREES
13	FEB	1979	100	PST	60	MPH	190	DEGREES
13	FEB	1979	200	PST	56	MPH	190	DEGREES
15	FEB	1979	200	PST	50	MPH	180	DEGREES
15	FEB	1979	300	PST	55	MPH	180	DEGREES
15	FEB	1979	400	PST	53	MPH	180	DEGREES
15	FEB	1979	500	PST	56	MPH	180	DEGREES
15	FEB	1979	600	PST	57	MPH	180	DEGREES
15	FEB	1979	700	PST	60	MPH	180	DEGREES
15	FEB	1979	800	PST	60	MPH	180	DEGREES
15	FEB	1979	900	PST	61	MPH	180	DEGREES
15	FEB	1979	1000	PST	50	MPH	190	DEGREES
16	FEB	1979	2100	PST	50	MPH	180	DEGREES
16	FEB	1979	2300	PST	57	MPH	180	DEGREES
16	FEB	1979	2400	PST	50	MPH	180	DEGREES
17	FEB	1979	100	PST	64	MPH	180	DEGREES
17	FEB	1979	200	PST	66	MPH	180	DEGREES
17	FEB	1979	300	PST	68	MPH	180	DEGREES
17	FEB	1979	400	PST	70	MPH	190	DEGREES
17	FEB	1979	500	PST	70	MPH	190	DEGREES
17	FEB	1979	600	PST	73	MPH	180	DEGREES
17	FEB	1979	700	PST	74	MPH	180	DEGREES
17	FEB	1979	800	PST	74	MPH	180	DEGREES
17	FEB	1979	900	PST	77	MPH	180	DEGREES
17	FEB	1979	1000	PST	74	MPH	180	DEGREES
17	FEB	1979	1100	PST	73	MPH	180	DEGREES
17	FEB	1979	1200	PST	74	MPH	180	DEGREES
17	FEB	1979	1300	PST	72	MPH	170	DEGREES
17	FEB	1979	1400	PST	75	MPH	180	DEGREES
17	FEB	1979	1500	PST	80	MPH	180	DEGREES
17	FEB	1979	1600	PST	68	MPH	190	DEGREES
17	FEB	1979	1700	PST	60	MPH	190	DEGREES
17	FEB	1979	1800	PST	50	MPH	180	DEGREES
17	FEB	1979	1900	PST	50	MPH	180	DEGREES
17	FEB	1979	2000	PST	50	MPH	180	DEGREES
20	FEB	1979	900	PST	50	MPH	180	DEGREES
20	FEB	1979	1000	PST	60	MPH	180	DEGREES
20	FEB	1979	1100	PST	50	MPH	180	DEGREES
22	FEB	1979	400	PST	51	MPH	170	DEGREES
23	FEB	1979	2400	PST	52	MPH	180	DEGREES
24	FEB	1979	100	PST	55	MPH	180	DEGREES
24	FEB	1979	200	PST	60	MPH	180	DEGREES
24	FEB	1979	300	PST	60	MPH	180	DEGREES
24	FEB	1979	400	PST	60	MPH	180	DEGREES
24	FEB	1979	500	PST	61	MPH	180	DEGREES

24	FEB	1979	600	PST	60	MPH	180	DEGREES
24	FEB	1979	700	PST	63	MPH	180	DEGREES
24	FEB	1979	800	PST	60	MPH	180	DEGREES
24	FEB	1979	900	PST	67	MPH	180	DEGREES
24	FEB	1979	1000	PST	66	MPH	180	DEGREES
24	FEB	1979	1100	PST	66	MPH	180	DEGREES
24	FEB	1979	1200	PST	65	MPH	180	DEGREES
24	FEB	1979	1300	PST	66	MPH	180	DEGREES
24	FEB	1979	1400	PST	60	MPH	180	DEGREES
24	FEB	1979	1500	PST	59	MPH	180	DEGREES
24	FEB	1979	1600	PST	56	MPH	180	DEGREES
24	FEB	1979	1700	PST	57	MPH	180	DEGREES
24	FEB	1979	1800	PST	54	MPH	180	DEGREES
24	FEB	1979	1900	PST	64	MPH	180	DEGREES
24	FEB	1979	2000	PST	60	MPH	180	DEGREES
24	FEB	1979	2100	PST	56	MPH	180	DEGREES
24	FEB	1979	2200	PST	57	MPH	180	DEGREES
24	FEB	1979	2300	PST	60	MPH	180	DEGREES
24	FEB	1979	2400	PST	60	MPH	180	DEGREES
25	FEB	1979	100	PST	60	MPH	190	DEGREES
25	FEB	1979	200	PST	63	MPH	180	DEGREES
25	FEB	1979	300	PST	58	MPH	180	DEGREES
25	FEB	1979	400	PST	50	MPH	170	DEGREES
25	FEB	1979	600	PST	50	MPH	180	DEGREES
25	FEB	1979	700	PST	50	MPH	180	DEGREES
25	FEB	1979	800	PST	50	MPH	180	DEGREES
25	FEB	1979	900	PST	53	MPH	180	DEGREES
25	FEB	1979	1000	PST	54	MPH	180	DEGREES
25	FEB	1979	1100	PST	55	MPH	180	DEGREES
25	FEB	1979	1200	PST	60	MPH	180	DEGREES
25	FEB	1979	1300	PST	56	MPH	180	DEGREES
25	FEB	1979	1400	PST	50	MPH	180	DEGREES
27	FEB	1979	400	PST	50	MPH	180	DEGREES
27	FEB	1979	500	PST	54	MPH	180	DEGREES
27	FEB	1979	600	PST	57	MPH	180	DEGREES
27	FEB	1979	700	PST	59	MPH	180	DEGREES
27	FEB	1979	800	PST	55	MPH	180	DEGREES
27	FEB	1979	900	PST	50	MPH	180	DEGREES
2	MAR	1979	2000	PST	50	MPH	180	DEGREES
2	MAR	1979	2100	PST	50	MPH	180	DEGREES
2	MAR	1979	2200	PST	50	MPH	180	DEGREES
2	MAR	1979	2300	PST	55	MPH	180	DEGREES
2	MAR	1979	2400	PST	55	MPH	180	DEGREES
3	MAR	1979	100	PST	50	MPH	180	DEGREES
4	MAR	1979	800	PST	50	MPH	180	DEGREES
4	MAR	1979	900	PST	52	MPH	170	DEGREES
4	MAR	1979	1000	PST	50	MPH	180	DEGREES
4	MAR	1979	1100	PST	50	MPH	180	DEGREES
4	MAR	1979	1200	PST	50	MPH	180	DEGREES
4	MAR	1979	1300	PST	50	MPH	180	DEGREES
4	MAR	1979	1400	PST	50	MPH	190	DEGREES
4	MAR	1979	1500	PST	52	MPH	190	DEGREES
4	MAR	1979	1600	PST	52	MPH	180	DEGREES
4	MAR	1979	2000	PST	50	MPH	180	DEGREES
4	MAR	1979	2100	PST	50	MPH	180	DEGREES
12	APR	1979	1200	PST	54	MPH	180	DEGREES
12	APR	1979	1300	PST	50	MPH	180	DEGREES
12	APR	1979	1400	PST	55	MPH	180	DEGREES
12	APR	1979	1500	PST	57	MPH	180	DEGREES
12	APR	1979	1600	PST	50	MPH	180	DEGREES
4	MAY	1979	1100	PST	50	MPH	180	DEGREES
4	MAY	1979	1200	PST	50	MPH	180	DEGREES
4	MAY	1979	1300	PST	50	MPH	180	DEGREES
4	MAY	1979	1400	PST	54	MPH	180	DEGREES
4	MAY	1979	1500	PST	57	MPH	180	DEGREES
4	MAY	1979	1600	PST	55	MPH	180	DEGREES
4	MAY	1979	1700	PST	55	MPH	180	DEGREES
4	MAY	1979	1800	PST	58	MPH	180	DEGREES
4	MAY	1979	1900	PST	66	MPH	180	DEGREES
4	MAY	1979	2000	PST	66	MPH	180	DEGREES
4	MAY	1979	2100	PST	66	MPH	180	DEGREES
4	MAY	1979	2200	PST	66	MPH	180	DEGREES
4	MAY	1979	2300	PST	66	MPH	180	DEGREES
4	MAY	1979	2400	PST	60	MPH	190	DEGREES

STATION	JUNIPER POINT						
3	SEPT 1978	1600	PST	52	MPH	999	DEGREES
3	SEPT 1978	1700	PST	50	MPH	999	DEGREES
3	SEPT 1978	1800	PST	52	MPH	999	DEGREES
3	SEPT 1978	2100	PST	50	MPH	999	DEGREES
14	SEPT 1978	2400	PST	50	MPH	320	DEGREES
15	SEPT 1978	100	PST	55	MPH	320	DEGREES
15	SEPT 1978	200	PST	50	MPH	320	DEGREES
26	SEPT 1978	1800	PST	53	MPH	300	DEGREES
26	SEPT 1978	1900	PST	51	MPH	310	DEGREES
26	SEPT 1978	2000	PST	50	MPH	310	DEGREES
31	SEPT 1978	1600	PST	50	MPH	280	DEGREES
10	OCT 1978	800	PST	50	MPH	290	DEGREES
10	OCT 1978	2100	PST	50	MPH	270	DEGREES
11	OCT 1978	1800	PST	50	MPH	300	DEGREES
20	OCT 1978	700	PST	50	MPH	300	DEGREES
20	OCT 1978	2000	PST	50	MPH	290	DEGREES
23	OCT 1978	2100	PST	55	MPH	280	DEGREES
23	OCT 1978	2200	PST	60	MPH	280	DEGREES
23	OCT 1978	2300	PST	55	MPH	260	DEGREES
23	OCT 1978	2400	PST	52	MPH	260	DEGREES
24	OCT 1978	100	PST	50	MPH	270	DEGREES
29	OCT 1978	500	PST	50	MPH	270	DEGREES
29	OCT 1978	600	PST	50	MPH	280	DEGREES
3	NOV 1978	1800	PST	50	MPH	280	DEGREES
3	NOV 1978	1900	PST	50	MPH	270	DEGREES
3	NOV 1978	2300	PST	50	MPH	240	DEGREES
4	NOV 1978	100	PST	60	MPH	310	DEGREES
4	NOV 1978	300	PST	50	MPH	310	DEGREES
4	NOV 1978	400	PST	50	MPH	300	DEGREES
7	NOV 1978	1600	PST	50	MPH	310	DEGREES
7	NOV 1978	1800	PST	50	MPH	300	DEGREES
7	NOV 1978	1900	PST	50	MPH	300	DEGREES
7	NOV 1978	2000	PST	50	MPH	280	DEGREES
7	NOV 1978	2100	PST	50	MPH	280	DEGREES
8	NOV 1978	600	PST	50	MPH	300	DEGREES
8	NOV 1978	700	PST	50	MPH	300	DEGREES
8	NOV 1978	800	PST	50	MPH	300	DEGREES
8	NOV 1978	900	PST	50	MPH	300	DEGREES
10	NOV 1978	700	PST	50	MPH	40	DEGREES
10	NOV 1978	1200	PST	50	MPH	20	DEGREES
17	NOV 1978	700	PST	50	MPH	260	DEGREES
17	NOV 1978	800	PST	50	MPH	270	DEGREES
17	NOV 1978	1600	PST	50	MPH	300	DEGREES
29	NOV 1978	2300	PST	50	MPH	270	DEGREES
29	NOV 1978	2400	PST	60	MPH	280	DEGREES
30	NOV 1978	100	PST	60	MPH	280	DEGREES
30	NOV 1978	200	PST	50	MPH	280	DEGREES
30	NOV 1978	300	PST	50	MPH	280	DEGREES
30	NOV 1978	1900	PST	50	MPH	260	DEGREES
30	NOV 1978	2000	PST	55	MPH	260	DEGREES
30	NOV 1978	2100	PST	55	MPH	270	DEGREES
30	NOV 1978	2200	PST	53	MPH	270	DEGREES
30	NOV 1978	2300	PST	52	MPH	270	DEGREES
30	NOV 1978	2400	PST	50	MPH	270	DEGREES
1	DEC 1978	100	PST	60	MPH	280	DEGREES
11	DEC 1978	400	PST	50	MPH	280	DEGREES
11	DEC 1978	800	PST	55	MPH	280	DEGREES
11	DEC 1978	900	PST	58	MPH	290	DEGREES
11	DEC 1978	1000	PST	60	MPH	280	DEGREES
11	DEC 1978	1100	PST	66	MPH	270	DEGREES
11	DEC 1978	1200	PST	60	MPH	270	DEGREES
11	DEC 1978	1300	PST	50	MPH	280	DEGREES
11	DEC 1978	1400	PST	50	MPH	270	DEGREES
11	DEC 1978	2000	PST	50	MPH	270	DEGREES
14	DEC 1978	1300	PST	50	MPH	270	DEGREES
14	DEC 1978	2000	PST	56	MPH	270	DEGREES
21	DEC 1978	100	PST	50	MPH	260	DEGREES
21	DEC 1978	300	PST	50	MPH	270	DEGREES
21	DEC 1978	400	PST	50	MPH	260	DEGREES
21	DEC 1978	700	PST	50	MPH	260	DEGREES
22	DEC 1978	200	PST	50	MPH	260	DEGREES
22	DEC 1978	300	PST	50	MPH	260	DEGREES
22	DEC 1978	400	PST	50	MPH	270	DEGREES

JUNIPER POINT (continued)

22	DEC	1978	500	PST	60	MPH	270	DEGREE
22	DEC	1978	800	PST	50	MPH	270	DEGREE
22	DEC	1978	900	PST	55	MPH	270	DEGREE
22	DEC	1978	1000	PST	50	MPH	260	DEGREE
22	DEC	1978	1200	PST	50	MPH	270	DEGREE
22	DEC	1978	1300	PST	70	MPH	260	DEGREE
22	DEC	1978	1400	PST	80	MPH	270	DEGREE
22	DEC	1978	1600	PST	50	MPH	270	DEGREE
22	DEC	1978	1700	PST	53	MPH	280	DEGREE
22	DEC	1978	1800	PST	50	MPH	270	DEGREE
23	DEC	1978	1100	PST	50	MPH	270	DEGREE
23	DEC	1978	2100	PST	50	MPH	260	DEGREE
23	DEC	1978	2200	PST	60	MPH	260	DEGREE
23	DEC	1978	2300	PST	65	MPH	260	DEGREE
23	DEC	1978	2400	PST	60	MPH	260	DEGREE
24	DEC	1978	100	PST	65	MPH	260	DEGREE
24	DEC	1978	200	PST	64	MPH	270	DEGREE
24	DEC	1978	300	PST	55	MPH	260	DEGREE
24	DEC	1978	400	PST	50	MPH	260	DEGREE
24	DEC	1978	500	PST	50	MPH	260	DEGREE
24	DEC	1978	700	PST	50	MPH	260	DEGREE
24	DEC	1978	800	PST	50	MPH	260	DEGREE
24	DEC	1978	1000	PST	50	MPH	260	DEGREE
24	DEC	1978	1100	PST	50	MPH	260	DEGREE
27	DEC	1978	100	PST	50	MPH	260	DEGREE
27	DEC	1978	200	PST	50	MPH	270	DEGREE
27	DEC	1978	300	PST	55	MPH	270	DEGREE
27	DEC	1978	400	PST	50	MPH	270	DEGREE
27	DEC	1978	600	PST	50	MPH	270	DEGREE
27	DEC	1978	700	PST	50	MPH	270	DEGREE
27	DEC	1978	1800	PST	50	MPH	300	DEGREE
12	JAN	1979	1500	PST	55	MPH	270	DEGREE
3	FEB	1979	1100	PST	50	MPH	280	DEGREE
4	FEB	1979	2100	PST	50	MPH	270	DEGREE
4	FEB	1979	2200	PST	53	MPH	260	DEGREE
4	FEB	1979	2300	PST	50	MPH	240	DEGREE
5	FEB	1979	700	PST	50	MPH	250	DEGREE
5	FEB	1979	800	PST	60	MPH	270	DEGREE
5	FEB	1979	900	PST	63	MPH	270	DEGREE
5	FEB	1979	1000	PST	60	MPH	280	DEGREE
5	FEB	1979	1100	PST	58	MPH	280	DEGREE
5	FEB	1979	1200	PST	58	MPH	280	DEGREE
5	FEB	1979	1300	PST	50	MPH	280	DEGREE
5	FEB	1979	1400	PST	50	MPH	280	DEGREE
5	FEB	1979	1500	PST	55	MPH	280	DEGREE
5	FEB	1979	1600	PST	60	MPH	270	DEGREE
5	FEB	1979	1700	PST	50	MPH	280	DEGREE
5	FEB	1979	1800	PST	50	MPH	280	DEGREE
5	FEB	1979	1900	PST	50	MPH	280	DEGREE
6	FEB	1979	900	PST	50	MPH	270	DEGREE
6	FEB	1979	1000	PST	50	MPH	260	DEGREE
6	FEB	1979	1100	PST	50	MPH	250	DEGREE
6	FEB	1979	1200	PST	53	MPH	260	DEGREE
6	FEB	1979	1300	PST	65	MPH	260	DEGREE
6	FEB	1979	1400	PST	63	MPH	270	DEGREE
6	FEB	1979	1500	PST	77	MPH	280	DEGREE
6	FEB	1979	1600	PST	70	MPH	270	DEGREE
6	FEB	1979	1700	PST	70	MPH	280	DEGREE
6	FEB	1979	1800	PST	60	MPH	270	DEGREE
6	FEB	1979	1900	PST	55	MPH	270	DEGREE
6	FEB	1979	2000	PST	50	MPH	260	DEGREE
7	FEB	1979	500	PST	50	MPH	270	DEGREE
7	FEB	1979	600	PST	55	MPH	290	DEGREE
7	FEB	1979	700	PST	58	MPH	290	DEGREE
7	FEB	1979	800	PST	50	MPH	290	DEGREE
7	FEB	1979	900	PST	57	MPH	290	DEGREE
12	FEB	1979	2400	PST	50	MPH	200	DEGREE
13	FEB	1979	100	PST	54	MPH	200	DEGREE
13	FEB	1979	200	PST	55	MPH	210	DEGREE
13	FEB	1979	800	PST	50	MPH	270	DEGREE

JUNIPER POINT (continued)

26	FEB	1979	1500	PST	50	MPH	280	DEGREES
26	FEB	1979	1800	PST	50	MPH	290	DEGREES
26	FEB	1979	1900	PST	50	MPH	290	DEGREES
26	FEB	1979	2000	PST	50	MPH	290	DEGREES
26	FEB	1979	2100	PST	50	MPH	290	DEGREES
7	MAR	1979	200	PST	50	MPH	290	DEGREES
24	MAR	1979	1900	PST	50	MPH	280	DEGREES
28	MAR	1979	1700	PST	50	MPH	280	DEGREES
28	MAR	1979	2000	PST	50	MPH	280	DEGREES
28	MAR	1979	2100	PST	50	MPH	280	DEGREES
28	MAR	1979	2200	PST	50	MPH	280	DEGREES
30	MAR	1979	1700	PST	50	MPH	270	DEGREES
3	APR	1979	2200	PST	55	MPH	300	DEGREES
3	APR	1979	2300	PST	55	MPH	310	DEGREES
3	APR	1979	2400	PST	50	MPH	310	DEGREES
4	APR	1979	100	PST	56	MPH	310	DEGREES
4	APR	1979	200	PST	56	MPH	300	DEGREES
4	APR	1979	500	PST	54	MPH	300	DEGREES
4	APR	1979	600	PST	53	MPH	300	DEGREES
4	APR	1979	700	PST	53	MPH	300	DEGREES
4	APR	1979	800	PST	53	MPH	300	DEGREES
4	APR	1979	900	PST	53	MPH	310	DEGREES
4	APR	1979	1000	PST	50	MPH	310	DEGREES
4	APR	1979	1700	PST	50	MPH	270	DEGREES
6	APR	1979	1800	PST	50	MPH	270	DEGREES
6	APR	1979	1900	PST	55	MPH	280	DEGREES
6	APR	1979	2000	PST	53	MPH	280	DEGREES
6	APR	1979	2100	PST	50	MPH	280	DEGREES
6	APR	1979	2200	PST	55	MPH	280	DEGREES
6	APR	1979	2300	PST	50	MPH	280	DEGREES
7	APR	1979	300	PST	50	MPH	310	DEGREES
9	APR	1979	2300	PST	50	MPH	290	DEGREES
12	APR	1979	2100	PST	50	MPH	260	DEGREES
12	APR	1979	2300	PST	50	MPH	260	DEGREES
12	APR	1979	2400	PST	55	MPH	260	DEGREES
13	APR	1979	100	PST	58	MPH	270	DEGREES
13	APR	1979	200	PST	50	MPH	270	DEGREES

STATION PRAIRIE MTN

3	NOV	1978	1900	PST	50	MPH	190	DEGREES
3	NOV	1978	2000	PST	53	MPH	190	DEGREES
3	NOV	1978	2100	PST	50	MPH	190	DEGREES
10	NOV	1978	1700	PST	50	MPH	50	DEGREES
10	NOV	1978	1800	PST	50	MPH	60	DEGREES
30	NOV	1978	1000	PST	50	MPH	190	DEGREES
30	NOV	1978	1100	PST	52	MPH	190	DEGREES
10	DEC	1978	1800	PST	52	MPH	180	DEGREES
10	DEC	1978	1900	PST	50	MPH	190	DEGREES
16	DEC	1978	2000	PST	50	MPH	180	DEGREES
16	DEC	1978	2100	PST	50	MPH	180	DEGREES
5	JAN	1979	800	PST	50	MPH	120	DEGREES
5	JAN	1979	900	PST	50	MPH	120	DEGREES
5	JAN	1979	1000	PST	50	MPH	120	DEGREES
10	JAN	1979	200	PST	50	MPH	160	DEGREES
10	JAN	1979	300	PST	50	MPH	170	DEGREES
10	JAN	1979	400	PST	55	MPH	170	DEGREES
10	JAN	1979	500	PST	55	MPH	180	DEGREES
10	JAN	1979	600	PST	55	MPH	180	DEGREES
10	JAN	1979	700	PST	50	MPH	180	DEGREES
10	JAN	1979	800	PST	50	MPH	180	DEGREES
10	JAN	1979	900	PST	50	MPH	190	DEGREES
10	JAN	1979	1000	PST	52	MPH	200	DEGREES
10	JAN	1979	1100	PST	50	MPH	210	DEGREES
7	FEB	1979	700	PST	50	MPH	200	DEGREES
7	FEB	1979	800	PST	50	MPH	200	DEGREES
7	FEB	1979	900	PST	54	MPH	200	DEGREES
7	FEB	1979	1000	PST	55	MPH	200	DEGREES
7	FEB	1979	1100	PST	50	MPH	210	DEGREES
12	FEB	1979	1500	PST	50	MPH	160	DEGREES
12	FEB	1979	1600	PST	50	MPH	160	DEGREES
12	FEB	1979	1800	PST	51	MPH	170	DEGREES
12	FEB	1979	1900	PST	53	MPH	160	DEGREES
12	FEB	1979	2000	PST	55	MPH	160	DEGREES
12	FEB	1979	2100	PST	57	MPH	170	DEGREES
12	FEB	1979	2200	PST	58	MPH	190	DEGREES
12	FEB	1979	2300	PST	55	MPH	170	DEGREES
25	FEB	1979	600	PST	50	MPH	90	DEGREES
12	APR	1979	1100	PST	57	MPH	120	DEGREES
12	APR	1979	1200	PST	54	MPH	120	DEGREES
12	APR	1979	1300	PST	55	MPH	120	DEGREES
12	APR	1979	1400	PST	52	MPH	130	DEGREES
12	APR	1979	1500	PST	55	MPH	130	DEGREES
4	MAY	1979	2200	PST	50	MPH	110	DEGREES
4	MAY	1979	2300	PST	55	MPH	120	DEGREES
4	MAY	1979	2400	PST	50	MPH	110	DEGREES

STATION KENNEWICK

16	JULY	1978	100	PST	56	MPH	210	DEGREES
16	JULY	1978	200	PST	56	MPH	210	DEGREES
16	JULY	1978	300	PST	56	MPH	210	DEGREES
16	JULY	1978	400	PST	56	MPH	210	DEGREES
16	JULY	1978	500	PST	50	MPH	210	DEGREES
16	JULY	1978	1100	PST	53	MPH	220	DEGREES
3	NOV	1978	2400	PST	53	MPH	210	DEGREES
4	NOV	1978	100	PST	60	MPH	210	DEGREES
4	NOV	1978	200	PST	67	MPH	210	DEGREES
4	NOV	1978	300	PST	60	MPH	220	DEGREES
4	NOV	1978	400	PST	52	MPH	230	DEGREES
7	NOV	1978	2000	PST	56	MPH	210	DEGREES
7	NOV	1978	2100	PST	56	MPH	220	DEGREES
7	NOV	1978	2200	PST	56	MPH	210	DEGREES
7	NOV	1978	2300	PST	57	MPH	210	DEGREES
7	NOV	1978	2400	PST	54	MPH	210	DEGREES
8	NOV	1978	100	PST	53	MPH	210	DEGREES
8	NOV	1978	200	PST	53	MPH	220	DEGREES