

Project:

Wind River

Description:

Data from file(s)

Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04351028.N02
 Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04350412.N03
 Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04350528.N03
 Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04350703.N02
 Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04350805.N02
 Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04351001.N02
 Y:\5000\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Wind River #1 - WY\Raw Data\04350117.N03

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 1617 Cole Blvd. (MS3811)
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Calculated:

11/30/2005 10:11 AM/

Meteo data report, height: 20.0 m

Name of meteo object: Wind River: Boysen Peak #1

Data from: 07/03/2002 9:40 AM Data to: 07/28/2003 7:20 AM Observations: 56147 Observations per day: 144 Recovery rate: 100%

day	07/02	08/02	09/02	10/02	11/02	12/02	01/03	02/03	03/03	04/03	05/03	06/03	07/03	08/03
1		144	144	144	(0)	144	144	144	144	144	(78)	144	144	
2		144	144	(22)	(0)	144	144	(139)	144	144	144	144	144	144
3	(86)	144	144	(98)	(83)	(21)	144	(0)	(124)	144	144	144	144	144
4	144	144	144	(95)	144	(0)	144	(0)	(0)	144	144	144	144	144
5	144	144	144	144	144	(70)	144	(0)	(82)	144	144	144	144	144
6	144	144	144	144	144	144	144	(0)	144	144	144	144	144	144
7	144	144	144	144	144	144	144	(0)	144	144	144	(122)	144	
8	144	144	144	144	144	144	144	(0)	144	144	(130)	144	144	
9	144	144	144	144	144	144	144	(54)	144	144	(7)	144	144	144
10	144	144	144	144	144	144	144	144	144	144	(39)	144	144	144
11	144	144	144	144	144	144	144	144	144	144	(80)	144	144	144
12	144	144	144	(84)	144	144	144	144	144	144	144	144	144	144
13	144	144	144	144	144	144	144	144	144	144	144	144	144	144
14	144	144	144	144	144	144	144	(102)	144	144	144	144	144	144
15	144	144	144	144	144	144	144	(0)	144	144	144	144	144	144
16	144	144	144	144	144	144	144	(45)	144	144	144	144	144	144
17	144	144	144	144	144	144	144	144	144	144	144	144	144	144
18	144	144	144	144	144	144	144	144	(119)	144	144	144	144	144
19	144	144	144	144	144	144	144	144	(0)	144	144	144	144	144
20	144	144	144	144	144	144	144	144	(0)	144	144	144	144	144
21	144	144	144	144	144	144	(125)	144	(71)	144	144	144	144	144
22	144	144	144	(55)	144	144	(6)	144	144	144	144	144	144	144
23	144	144	144	(0)	(124)	144	144	144	144	144	144	144	144	144
24	144	144	144	(0)	(0)	144	144	144	144	144	144	144	144	144
25	144	144	144	(81)	(64)	144	144	144	144	144	144	144	144	144
26	144	144	144	144	144	144	144	144	144	144	144	144	144	144
27	144	144	144	144	144	144	144	144	(83)	144	144	144	144	144
28	144	144	144	144	144	144	(3)	144	(0)	144	144	144	144	(45)
29	144	144	144	(87)	144	144	(35)		(74)	144	144	144		
30	144	144	144	(0)	144	144			144	(130)	144	144		
31	144	144		(0)		144	144				144			
%	100	100	100	(76)	(86)	(92)	(91)	(69)	(80)	(100)	(91)	(99)	(88)	(0)

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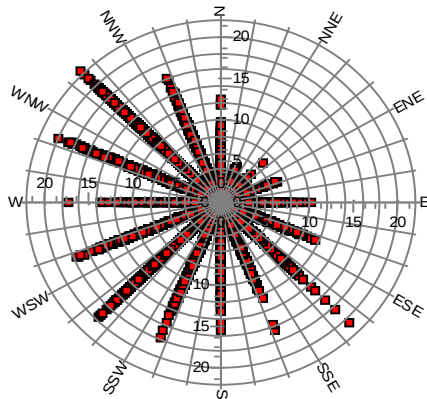
National Renewable Energy Laboratory
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 +1 303-384-7027

Calculated:

11/30/2005 10:11 AM/

Meteo data report, height: 20.0 m

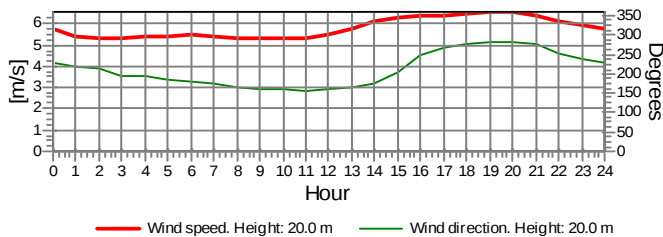
Name of meteo object: Wind River: Boysen Peak #1



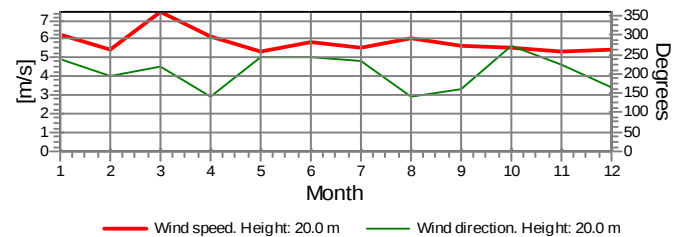
Wind speed [m/s]

Monthly mean values of wind speed in m/s

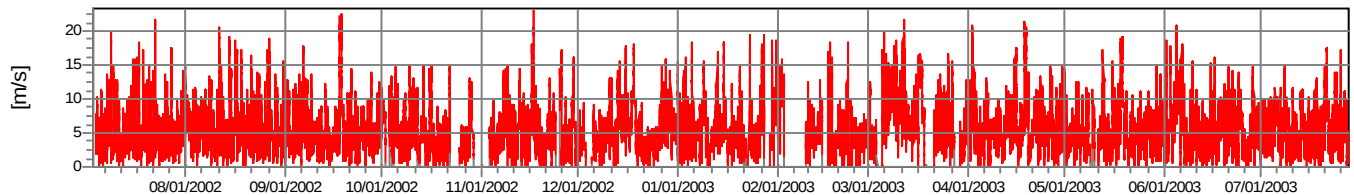
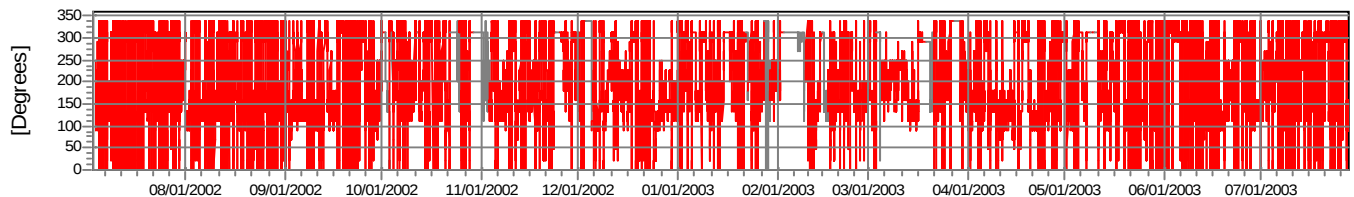
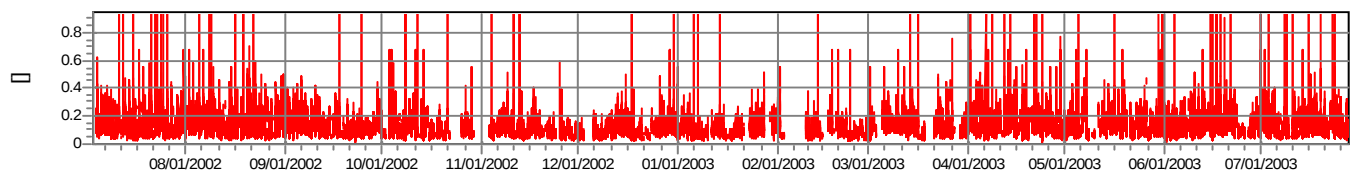
Month	2002	2003	mean	mean of months
Jan		6.3	6.3	6.3
Feb		5.5	5.5	5.5
Mar		7.5	7.5	7.5
Apr		6.1	6.1	6.1
May		5.3	5.3	5.3
Jun		5.8	5.8	5.8
Jul	5.7	5.3	5.5	5.5
Aug	6.0		6.0	6.0
Sep	5.6		5.6	5.6
Oct	5.6		5.6	5.6
Nov	5.3		5.3	5.3
Dec	5.4		5.4	5.4
mean, all data	5.6	6.0	5.8	
mean of months	5.6	6.0		5.8



— Wind speed. Height: 20.0 m — Wind direction. Height: 20.0 m



— Wind speed. Height: 20.0 m — Wind direction. Height: 20.0 m

Wind speed**Wind direction****Turbulence intensity
V>4.0 m/s**

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Name of meteo object: Wind River: Boysen Peak #1

Frequency

Wind speed	Sum	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
0.00 - 0.49	596	20	25	9	8	9	42	40	33	43	49	40	37	42	53	105	41
0.50 - 1.49	2,021	101	94	57	42	58	155	237	186	114	105	127	133	131	162	215	104
1.50 - 2.49	3,814	189	154	119	71	127	400	605	498	247	147	140	128	171	246	354	218
2.50 - 3.49	6,658	359	180	91	93	199	832	1,270	916	508	328	189	135	189	351	666	352
3.50 - 4.49	7,519	372	76	37	41	235	1,032	1,543	1,165	556	430	222	127	127	354	741	461
4.50 - 5.49	7,532	260	21	7	28	249	1,000	1,674	1,038	536	441	280	132	105	290	887	584
5.50 - 6.49	5,995	135	5	1	23	129	580	1,267	598	421	362	333	154	104	241	1,104	538
6.50 - 7.49	4,219	82	1	3	13	60	253	740	256	309	312	323	164	68	164	1,014	457
7.50 - 8.49	3,285	42	2	2	2	29	176	428	95	167	227	286	176	86	205	1,025	337
8.50 - 9.49	2,566	16	0	0	1	13	104	265	64	102	182	246	188	60	200	863	262
9.50 - 10.49	1,902	4	0	0	0	6	45	137	47	46	159	219	160	66	148	688	177
10.50 - 11.49	1,531	6	1	0	0	1	11	87	19	31	124	247	116	28	154	587	119
11.50 - 12.49	1,082	9	0	0	0	0	3	24	13	28	74	194	109	8	101	439	80
12.50 - 13.49	796	3	0	0	0	0	0	17	5	22	32	173	79	13	118	294	40
13.50 - 14.49	617	0	0	0	0	0	0	3	5	11	23	129	65	8	72	271	30
14.50 - 15.49	359	0	0	0	0	0	0	4	2	4	11	85	32	3	30	171	17
15.50 - 16.49	242	0	0	0	0	0	0	2	3	0	5	51	14	2	31	127	7
16.50 - 17.49	204	0	0	0	0	0	0	2	3	1	2	37	16	1	26	111	5
17.50 - 18.49	109	0	0	0	0	0	0	6	1	0	2	16	4	0	14	66	0
18.50 - 19.49	81	0	0	0	0	0	0	2	0	0	0	10	2	0	4	63	0
19.50 - 20.49	39	0	0	0	0	0	0	3	0	0	0	2	1	0	2	31	0
20.50 - 21.49	15	0	0	0	0	0	0	1	0	0	0	2	0	0	0	12	0
21.50 - 22.49	8	0	0	0	0	0	0	0	0	0	0	1	0	0	1	6	0
22.50 - 23.49	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Sum	51,191	1,598	559	326	322	1,115	4,633	8,357	4,947	3,146	3,015	3,353	1,972	1,212	2,967	9,840	3,829

Turbulence

Wind speed	Sum	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
0.00 - 0.49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50 - 1.49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50 - 2.49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.50 - 3.49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.50 - 4.49	0.150	0.145	0.138	0.176	0.154	0.139	0.152	0.152	0.174	0.165	0.153	0.160	0.171	0.129	0.113	0.118	0.145
4.50 - 5.49	0.137	0.140	0.201	0.265	0.175	0.128	0.144	0.141	0.158	0.151	0.149	0.150	0.163	0.137	0.097	0.101	0.116
5.50 - 6.49	0.136	0.151	0.262	0.065	0.213	0.143	0.150	0.143	0.166	0.148	0.153	0.146	0.155	0.123	0.097	0.105	0.110
6.50 - 7.49	0.120	0.134	0.160	0.050	0.145	0.149	0.145	0.129	0.166	0.146	0.142	0.139	0.141	0.128	0.085	0.082	0.097
7.50 - 8.49	0.114	0.138	0.194	0.053	0.150	0.163	0.150	0.134	0.214	0.150	0.152	0.144	0.131	0.123	0.086	0.075	0.087
8.50 - 9.49	0.113	0.161			0.087	0.142	0.143	0.141	0.211	0.169	0.151	0.156	0.135	0.129	0.082	0.074	0.087
9.50 - 10.49	0.102	0.134				0.111	0.149	0.124	0.232	0.157	0.145	0.150	0.128	0.104	0.071	0.065	0.074
10.50 - 11.49	0.103	0.129	0.159			0.111	0.178	0.131	0.197	0.153	0.149	0.147	0.138	0.123	0.070	0.067	0.085
11.50 - 12.49	0.098	0.112					0.147	0.139	0.241	0.168	0.139	0.144	0.132	0.114	0.068	0.062	0.076
12.50 - 13.49	0.099	0.097						0.134	0.244	0.174	0.153	0.148	0.130	0.101	0.057	0.065	0.075
13.50 - 14.49	0.094							0.116	0.255	0.179	0.143	0.146	0.134	0.099	0.059	0.060	0.071
14.50 - 15.49	0.095							0.203	0.249	0.138	0.127	0.145	0.128	0.106	0.071	0.063	0.067
15.50 - 16.49	0.085							0.220	0.262		0.097	0.138	0.131	0.121	0.062	0.058	0.060
16.50 - 17.49	0.085							0.186	0.239	0.123	0.115	0.145	0.144	0.098	0.065	0.055	0.057
17.50 - 18.49	0.086							0.195	0.227		0.140	0.147	0.142		0.064	0.059	
18.50 - 19.49	0.084							0.229				0.151	0.136		0.061	0.069	
19.50 - 20.49	0.079							0.185				0.145	0.135		0.077	0.063	
20.50 - 21.49	0.082							0.158				0.143				0.065	
21.50 - 22.49	0.067											0.123			0.069	0.057	
22.50 - 23.49	0.119											0.119					
Sum	0.125	0.142	0.169	0.171	0.175	0.137	0.148	0.141	0.170	0.153	0.149	0.147	0.140	0.124	0.084	0.081	0.102

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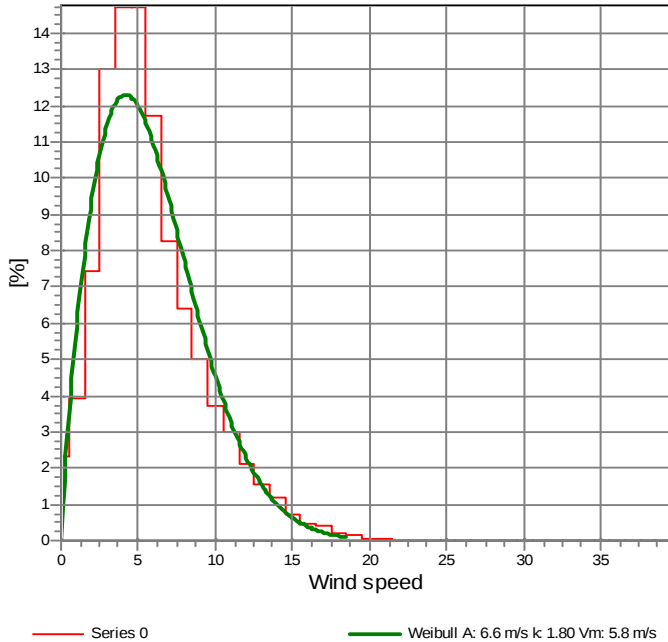
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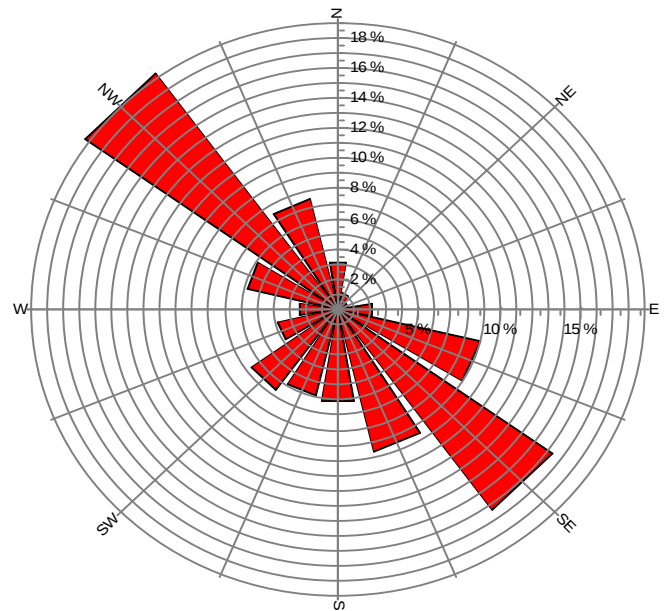
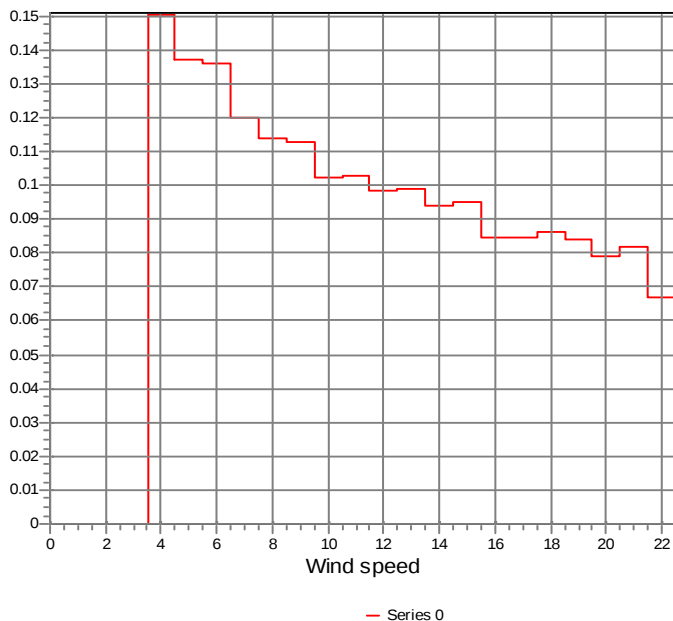
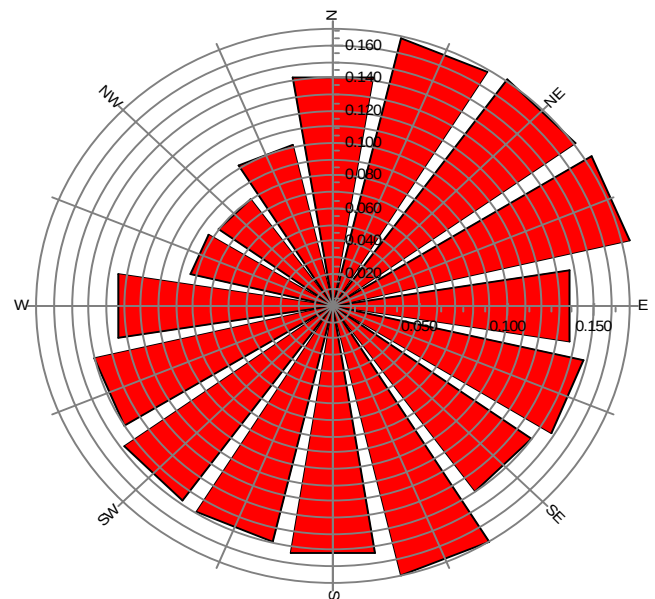
Meteo data report, height: 20.0 m

Name of meteo object: Wind River: Boysen Peak #1

Frequency



Frequency

Turbulence
V>4.0 m/sTurbulence
V>4.0 m/s

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Name of meteo object: Wind River: Boysen Peak #1

Weibull Data

k-parameter correction: 0.0080/m

Sector	A- parameter [m/s]	Mean wind speed [m/s]	k- parameter	Frequency	Frequency [%]	Wind shear
0-N	4.56	4.04	2.090	3.12	3.1	0.00
1-NNE	3.00	2.66	2.343	1.09	1.1	0.00
2-NE	2.80	2.48	2.111	0.64	0.6	0.00
3-ENE	3.53	3.14	1.867	0.63	0.6	0.00
4-E	4.83	4.29	2.675	2.18	2.2	0.00
5-ESE	5.05	4.48	2.486	9.05	9.1	0.00
6-SE	5.59	4.95	2.251	16.33	16.3	0.00
7-SSE	4.94	4.37	2.269	9.66	9.7	0.00
8-S	5.59	4.95	2.061	6.15	6.1	0.00
9-SSW	6.67	5.91	1.995	5.89	5.9	0.00
10-SW	9.05	8.01	2.149	6.55	6.5	0.00
11-WSW	8.63	7.64	2.283	3.85	3.9	0.00
12-W	5.44	4.88	1.592	2.37	2.4	0.00
13-WNW	7.26	6.49	1.665	5.80	5.8	0.00
14-NW	8.74	7.74	2.072	19.22	19.2	0.00
15-NNW	6.84	6.05	2.165	7.48	7.5	0.00
mean	6.55	5.82	1.802	100.00	100.0	0.00

