

Project:
Table Bluff

Description:

Data from file(s)

Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 020923.N02
 Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 021101.N02
 Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 030115.N03
 Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 030305.N03
 Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 030411.N03
 Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 030604.N03
 Y:\5000\IS\shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 031013.N03

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National Renewable Energy Laboratory
 1617 Cole Blvd. (MS3811)
 US-GOLDEN, CO 80401
 +1 303-384-7027

Calculated:

07/28/2009 11:43 AM/

Meteo data report, height: 20.0 m

Name of meteo object: Table Bluff Anemometer

Data from: 09/23/2002 11:00 AM Data to: 01/29/2004 9:20 AM Observations: 70983 Observations per day: 144 Recovery rate: 100%

day	09/02	10/02	11/02	12/02	01/03	02/03	03/03	04/03	05/03	06/03	07/03	08/03	09/03	10/03	11/03	12/03	01/04	02/04
1		144	(130)	(96)	144	144	(139)	(139)	(128)	(140)	144	(134)	(136)	(120)	(120)	144	144	
2		(134)	(134)	(86)	144	144	(132)	144	(134)	(137)	(138)	(118)	(136)	(134)	(143)	144	(141)	
3		(130)	(102)	(137)	144	(139)	(137)	144	(128)	144	(142)	(116)	(127)	(121)	(133)	(142)	144	
4		(137)	(137)	(141)	(127)	(133)	(143)	144	(139)	(136)	(141)	(138)	(133)	(132)	(141)	144	144	
5		(132)	(142)	(123)	(132)	(133)	144	144	(111)	(137)	(140)	(136)	(119)	(121)	(130)	144	(142)	
6		(117)	144	(140)	(134)	(132)	(144)	(135)	(135)	144	(123)	(131)	(134)	(138)	144	144	144	
7		(139)	144	(133)	(133)	(141)	(142)	144	144	144	144	(101)	(141)	(120)	144	144	144	
8		(125)	144	(142)	(142)	(141)	144	144	(142)	144	(143)	(138)	(139)	(143)	144	144	144	
9		(133)	144	144	(143)	(119)	144	(139)	(143)	(140)	(127)	(116)	144	(126)	144	144	144	
10		(142)	144	144	144	(139)	(135)	(138)	144	(135)	(133)	(131)	(122)	(122)	(129)	144	(142)	
11		(132)	(142)	144	144	(140)	(137)	144	144	(143)	144	(103)	(138)	(124)	(142)	(141)	(143)	
12		(121)	(140)	144	144	(127)	144	144	(132)	(140)	(119)	144	144	(130)	144	144	144	
13		(129)	(121)	(141)	(127)	(101)	144	(143)	(139)	144	144	(140)	(136)	(125)	(137)	144	144	
14		(115)	(116)	144	(136)	(136)	144	(143)	144	144	144	(139)	(138)	(137)	144	(142)	144	
15		(135)	(129)	144	(142)	144	(143)	144	144	144	144	(126)	(143)	(140)	144	(143)	(128)	
16		(135)	144	(139)	(133)	144	(132)	144	144	(132)	144	144	(101)	(131)	144	144	(136)	
17		(134)	(106)	144	(131)	144	(140)	(142)	144	144	(140)	(139)	144	(124)	(122)	(134)	(141)	
18		(138)	(99)	144	(143)	144	(136)	(126)	(143)	144	(142)	(141)	(142)	144	144	(143)	(128)	
19		(133)	(129)	144	(126)	144	144	(133)	(126)	144	(143)	(143)	(136)	(143)	144	(143)	(134)	
20		144	(105)	144	(136)	(126)	(136)	144	(138)	(137)	144	(138)	(140)	(134)	(137)	(143)	(142)	
21		(139)	(137)	(135)	144	(132)	144	(143)	(143)	144	(142)	(121)	(122)	(137)	(143)	144	(121)	
22		(126)	(129)	(119)	144	(139)	(122)	(143)	144	144	(141)	(142)	(129)	(135)	(141)	(142)	(135)	
23	(64)	(100)	(131)	(137)	144	(129)	(140)	144	144	144	(138)	(138)	(135)	(142)	(142)	144	(143)	
24	(122)	144	(128)	144	144	(141)	144	144	(130)	(142)	(143)	(131)	(126)	(128)	(139)	144	144	
25	(137)	(128)	(138)	144	(142)	(130)	144	144	(136)	(132)	(133)	(143)	(129)	(127)	(142)	144	(133)	
26	(130)	(139)	(122)	144	(139)	(135)	144	144	(126)	(141)	(140)	(140)	(117)	(114)	(140)	(138)	144	
27	(136)	(134)	(121)	144	144	(116)	144	144	(111)	(137)	(131)	(138)	(101)	(138)	(135)	144	144	
28	(137)	(127)	(129)	(141)	(143)	(142)	(135)	144	(139)	(138)	(139)	(143)	(122)	(133)	144	144	(134)	
29	(139)	(135)	(116)	144	144		(130)	144	(136)	(143)	(129)	(138)	(138)	144	144	144	(57)	
30	(140)	(137)	(114)	144	(142)		(119)	(143)	(143)	(138)	(135)	(136)	(128)	(139)	(132)	(135)		
31		(129)		144	(134)		(135)		144		(143)	(140)		(131)		144		
%	(93)	(92)	(89)	(95)	(97)	(94)	(96)	(99)	(95)	(97)	(97)	(92)	(91)	(91)	(97)	(99)	(89)	(0)

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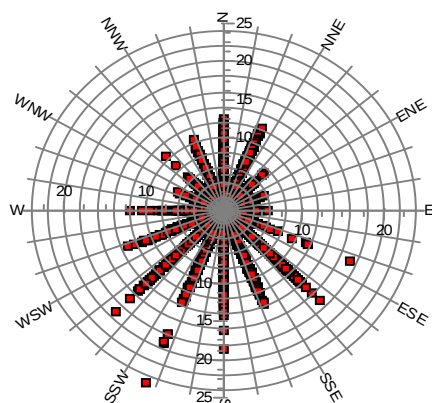
National Renewable Energy Laboratory
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 US-GOLDEN, CO 80401
 +1 303-384-7027

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Meteo data report, height: 20.0 m

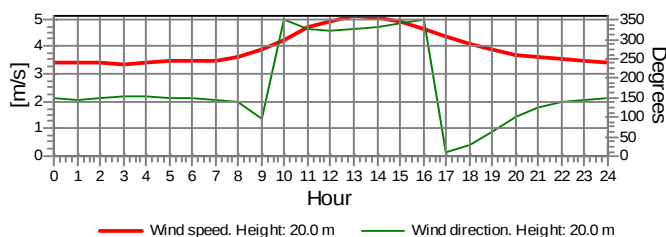
Name of meteo object: Table Bluff Anemometer



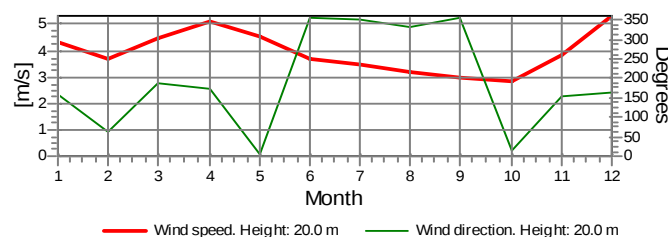
Wind speed [m/s]

Monthly mean values of wind speed in m/s

Month	2002	2003	2004	mean	mean of months
Jan	4.2	4.4	4.3	4.3	4.3
Feb	3.7	3.7	3.7	3.7	3.7
Mar	4.5	4.5	4.5	4.5	4.5
Apr	5.1	5.1	5.1	5.1	5.1
May	4.6	4.6	4.6	4.6	4.6
Jun	3.7	3.7	3.7	3.7	3.7
Jul	3.5	3.5	3.5	3.5	3.5
Aug	3.2	3.2	3.2	3.2	3.2
Sep	3.1	2.9	2.9	2.9	3.0
Oct	2.6	3.0	2.8	2.8	2.8
Nov	3.5	4.1	3.8	3.8	3.8
Dec	5.8	4.8	5.3	5.3	5.3
mean, all data	3.9	3.9	4.4	4.0	
mean of months	3.8	3.9	4.4		3.9

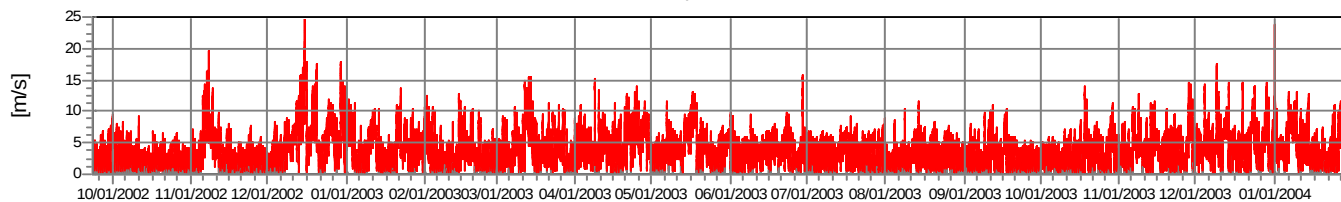


Wind speed. Height: 20.0 m Wind direction. Height: 20.0 m



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

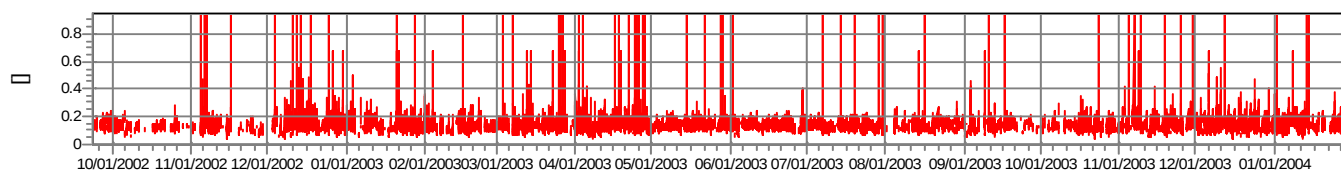
Wind speed



Wind direction



Turbulence intensity V>4.0 m/s



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Meteo data report, height: 20.0 m

Name of meteo object: Table Bluff Anemometer

Frequency

Wind speed m/s	Sum	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
0.00 - 0.49	1,764	114	146	160	114	85	74	90	110	128	150	140	124	83	84	80	82
0.50 - 1.49	9,683	779	1,026	890	659	415	357	347	523	823	1,016	842	495	339	318	332	522
1.50 - 2.49	10,705	1,160	1,414	948	626	367	263	246	572	1,034	1,325	711	492	347	247	311	642
2.50 - 3.49	11,255	1,559	1,699	701	344	259	236	256	985	1,230	930	660	542	461	204	302	887
3.50 - 4.49	9,817	1,772	1,716	405	107	93	96	321	1,558	1,057	516	412	483	282	112	195	692
4.50 - 5.49	7,934	1,609	1,358	135	18	26	43	426	1,945	747	316	293	403	109	31	73	402
5.50 - 6.49	5,994	1,198	1,032	51	5	4	18	456	1,785	504	196	217	284	57	11	39	137
6.50 - 7.49	3,566	647	590	4	0	1	8	433	1,145	236	73	209	148	23	9	8	32
7.50 - 8.49	2,299	362	332	3	1	0	5	440	623	169	106	118	83	18	8	5	26
8.50 - 9.49	1,705	296	226	0	0	1	5	323	434	125	93	115	43	11	3	2	28
9.50 - 10.49	1,109	162	110	0	0	0	5	275	253	89	59	99	24	11	0	2	20
10.50 - 11.49	687	96	83	0	0	0	11	162	120	67	46	73	17	5	1	0	6
11.50 - 12.49	336	52	18	0	0	0	10	88	41	45	21	55	3	3	0	0	0
12.50 - 13.49	210	8	1	0	0	0	9	58	20	34	26	53	1	0	0	0	0
13.50 - 14.49	119	0	0	0	0	0	3	25	10	15	19	45	2	0	0	0	0
14.50 - 15.49	51	0	0	0	0	0	1	4	2	6	11	25	2	0	0	0	0
15.50 - 16.49	29	0	0	0	0	0	0	7	0	8	8	6	0	0	0	0	0
16.50 - 17.49	22	0	0	0	0	0	2	4	0	5	2	8	1	0	0	0	0
17.50 - 18.49	15	0	0	0	0	0	1	2	0	4	5	3	0	0	0	0	0
18.50 - 19.49	12	0	0	0	0	0	0	0	0	1	10	1	0	0	0	0	0
19.50 - 20.49	7	0	0	0	0	0	0	0	0	1	3	2	1	0	0	0	0
20.50 - 21.49	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
21.50 - 22.49	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
22.50 - 23.49	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
23.50 - 24.49	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
24.50 - 25.49	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
Sum	67,331	9,814	9,751	3,297	1,874	1,251	1,147	3,963	10,126	6,328	4,940	4,090	3,148	1,749	1,028	1,349	3,476

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	0.143	0.146	0.146	0.154	0.129	0.102	0.136	0.158	0.147	0.128	0.126	0.126	0.135	0.151	0.170	0.163	0.156
4.50 - 5.49	0.140	0.141	0.137	0.146	0.135	0.127	0.131	0.158	0.145	0.126	0.131	0.122	0.131	0.147	0.157	0.161	0.156
5.50 - 6.49	0.149	0.145	0.141	0.147	0.147	0.162	0.129	0.178	0.160	0.135	0.131	0.129	0.134	0.143	0.203	0.146	0.161
6.50 - 7.49	0.144	0.133	0.130	0.145		0.103	0.135	0.176	0.159	0.129	0.131	0.110	0.118	0.141	0.164	0.191	0.161
7.50 - 8.49	0.150	0.135	0.129	0.139	0.205		0.162	0.178	0.161	0.147	0.133	0.109	0.124	0.160	0.174	0.205	0.174
8.50 - 9.49	0.154	0.137	0.128			0.111	0.184	0.183	0.172	0.159	0.128	0.117	0.117	0.158	0.183	0.173	0.177
9.50 - 10.49	0.151	0.133	0.127				0.172	0.178	0.166	0.144	0.128	0.112	0.113	0.157		0.206	0.163
10.50 - 11.49	0.152	0.133	0.126				0.184	0.183	0.171	0.157	0.140	0.108	0.126	0.179	0.149		0.157
11.50 - 12.49	0.150	0.137	0.127				0.177	0.176	0.172	0.148	0.133	0.114	0.139	0.132			
12.50 - 13.49	0.151	0.128	0.111				0.171	0.183	0.180	0.149	0.141	0.115	0.100				
13.50 - 14.49	0.133						0.193	0.173	0.171	0.143	0.137	0.093	0.110				
14.50 - 15.49	0.127						0.172	0.175	0.169	0.147	0.131	0.106	0.147				
15.50 - 16.49	0.148							0.173		0.158	0.135	0.121					
16.50 - 17.49	0.154						0.194	0.149		0.179	0.095	0.117	0.368				
17.50 - 18.49	0.141						0.203	0.149		0.167	0.130	0.100					
18.50 - 19.49	0.134									0.144	0.137	0.095					
19.50 - 20.49	0.130									0.170	0.137	0.120	0.089				
20.50 - 21.49	0.121										0.121						
21.50 - 22.49	0.090											0.090					
22.50 - 23.49	0.111										0.111						
23.50 - 24.49	0.135											0.135					
24.50 - 25.49	0.127											0.139	0.115				
Sum	0.146	0.141	0.137	0.150	0.134	0.117	0.147	0.174	0.156	0.134	0.131	0.117	0.130	0.149	0.169	0.162	0.158

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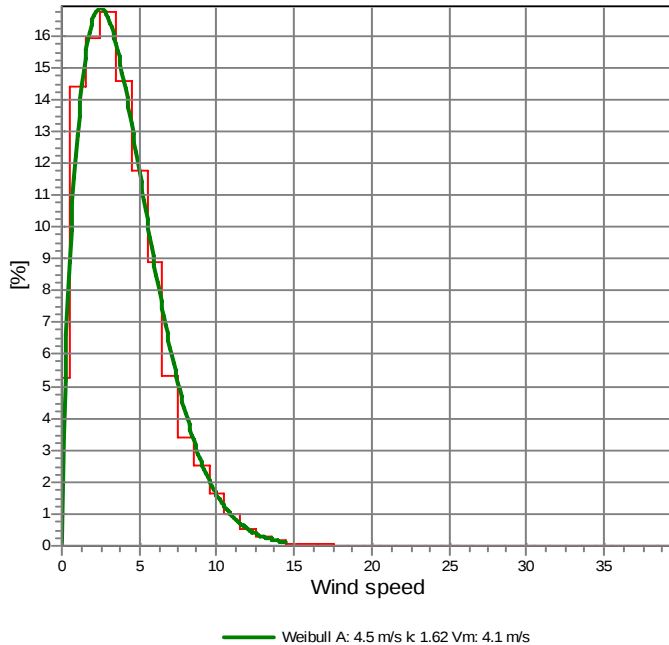
Calculated:

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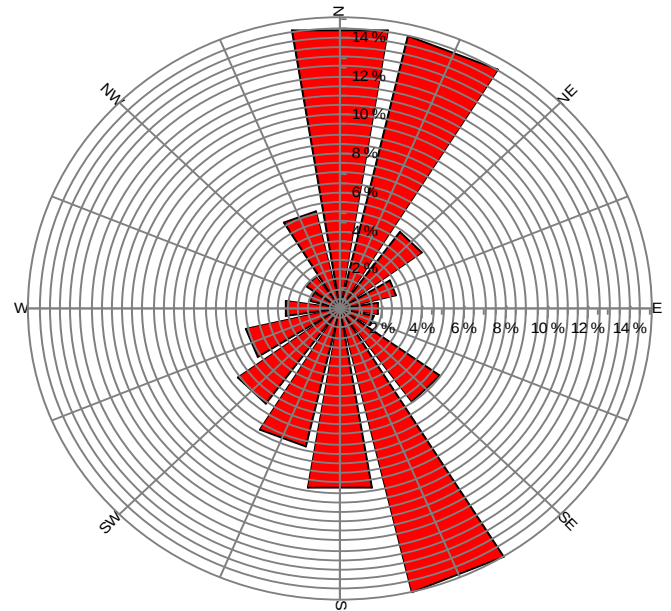
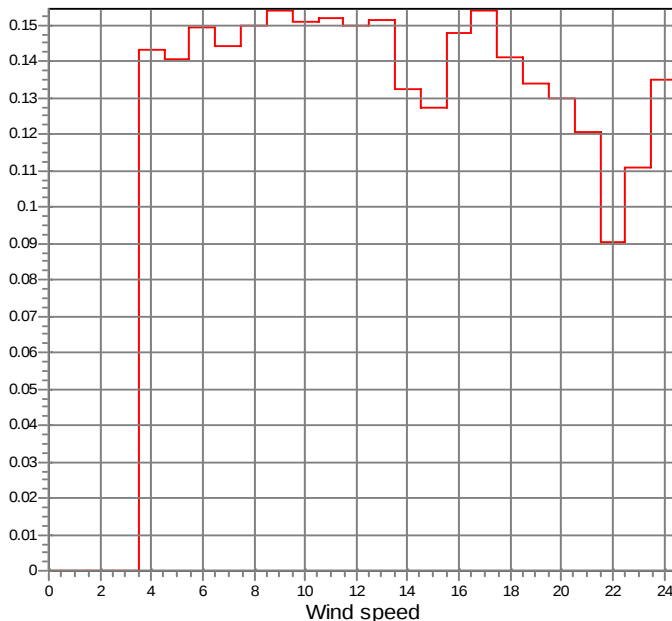
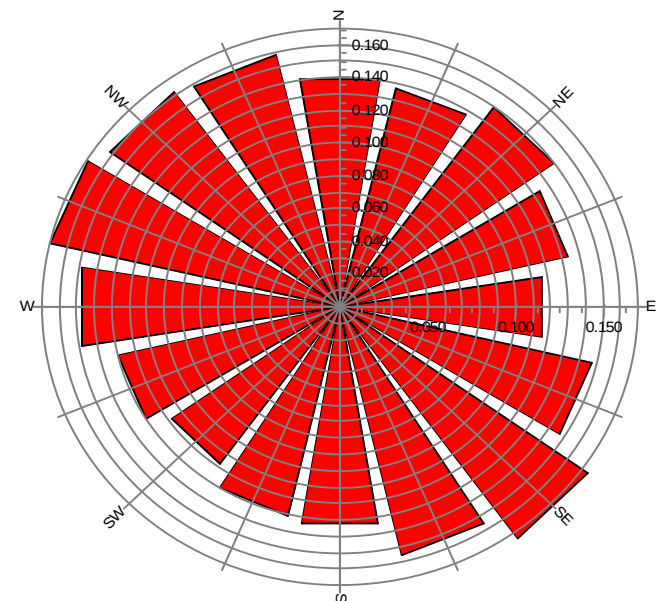
Meteo data report, height: 20.0 m

Name of meteo object: Table Bluff Anemometer

Frequency



Frequency

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

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 Y:\5000\I\Shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 030115.N03
 Y:\5000\I\Shared\Anemometer_Loan_Programs\Completed_Sites\Native American\Confirmed Completed\Table Bluff - CA\Wind Data\Table Bluff 030305.N03
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Calculated:

07/28/2009 11:43 AM/

Meteo data report, height: 20.0 m

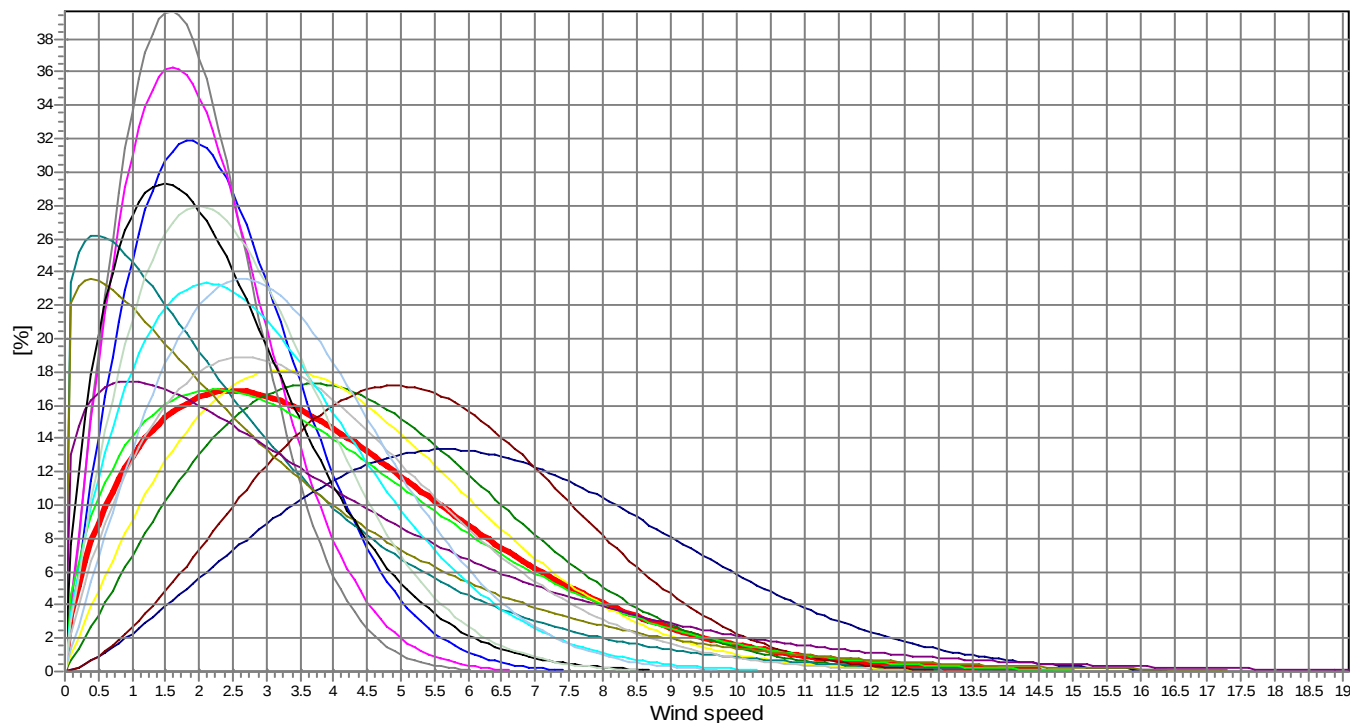
Name of meteo object: Table Bluff Anemometer

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	5.07	4.49	2.067	14.58	14.6	0.00
1-NNE	4.67	4.14	1.958	14.48	14.5	0.00
2-NE	2.66	2.36	1.971	4.90	4.9	0.00
3-ENE	2.19	1.94	2.037	2.78	2.8	0.00
4-E	2.33	2.06	1.952	1.86	1.9	0.00
5-ESE	2.98	2.84	1.138	1.70	1.7	0.00
6-SE	7.19	6.37	2.340	5.89	5.9	0.00
7-SSE	5.98	5.30	2.551	15.04	15.0	0.00
8-S	4.43	3.99	1.534	9.40	9.4	0.00
9-SSW	3.44	3.32	1.099	7.34	7.3	0.00
10-SW	4.33	4.07	1.197	6.07	6.1	0.00
11-WSW	4.23	3.77	1.778	4.68	4.7	0.00
12-W	3.41	3.04	1.760	2.60	2.6	0.00
13-WNW	2.62	2.35	1.640	1.53	1.5	0.00
14-NW	2.97	2.64	1.900	2.00	2.0	0.00
15-NNW	3.69	3.27	2.042	5.16	5.2	0.00
mean	4.53	4.06	1.615	100.00	100.0	0.00

Frequency



Total A: 4.5 m/s k 1.62 Vm: 4.1 m/s	N A: 5.1 m/s k 2.07 Vm: 4.5 m/s	NNE A: 4.7 m/s k 1.96 Vm: 4.1 m/s	NE A: 2.7 m/s k 1.97 Vm: 2.4 m/s
ENE A: 2.2 m/s k 2.04 Vm: 1.9 m/s	E A: 2.3 m/s k 1.95 Vm: 2.1 m/s	ESE A: 3.0 m/s k 1.14 Vm: 2.8 m/s	SE A: 7.2 m/s k 2.34 Vm: 6.4 m/s
SSE A: 6.0 m/s k 2.55 Vm: 5.3 m/s	S A: 4.4 m/s k 1.53 Vm: 4.0 m/s	SSW A: 3.4 m/s k 1.10 Vm: 3.3 m/s	SW A: 4.3 m/s k 1.20 Vm: 4.1 m/s
WSW A: 4.2 m/s k 1.78 Vm: 3.8 m/s	WA: 3.4 m/s k 1.76 Vm: 3.0 m/s	WNW A: 2.6 m/s k 1.64 Vm: 2.3 m/s	NW A: 3.0 m/s k 1.90 Vm: 2.6 m/s
NNW A: 3.7 m/s k 2.04 Vm: 3.3 m/s			