State Prison Summary Report

Site Information		**Sensor Information**	
Site Number:	1031	Data Logger:	NRG Wind Explorer
Location:	Salt Lake Co., Utah	Sensor/Tower Height:	50 meters
Site Elevation:	4594 ft.	Scaled Height:	80 meters
Averaging Time:	10 min.	Windvane Offset:	0 degrees
Date Range:	11/19/03 15:00 – 6/6/06 14:20		

*Gap in this data set: 4/22/05 - 8/30/05.
* There is no wind direction data for this site due to faulty equipment.

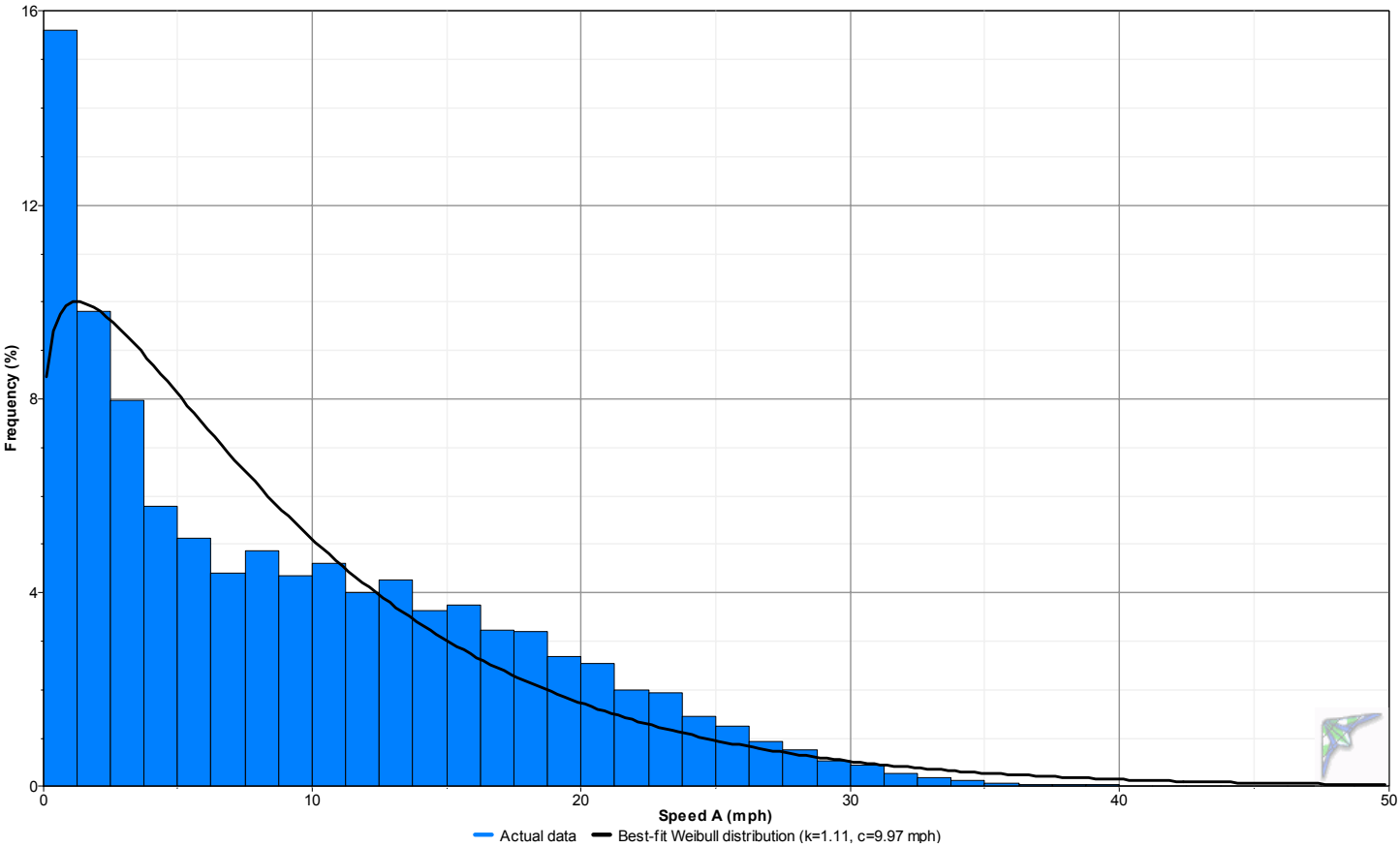
Annual Wind Speed Statistics

	Year	Records	Recovery Rate (%)	Mean (mph)	Min (mph)	Max (mph)	Std. Dev. (mph)	Weibull k	Weibull c (mph)
1	2003	5,730	93.90	11.14	0.8	42.7	9.767	1.008	11.17
2	2004	52,518	99.65	9.31	0.8	46.1	7.780	1.123	9.71
3	2005	33,624	63.97	9.35	0.8	45.3	8.103	1.057	9.55
4	2006	22,538	99.95	10.22	0.8	43.9	7.832	1.226	10.90
5	All data	114,410	85.43	9.59	0.8	46.1	8.012	1.112	9.97

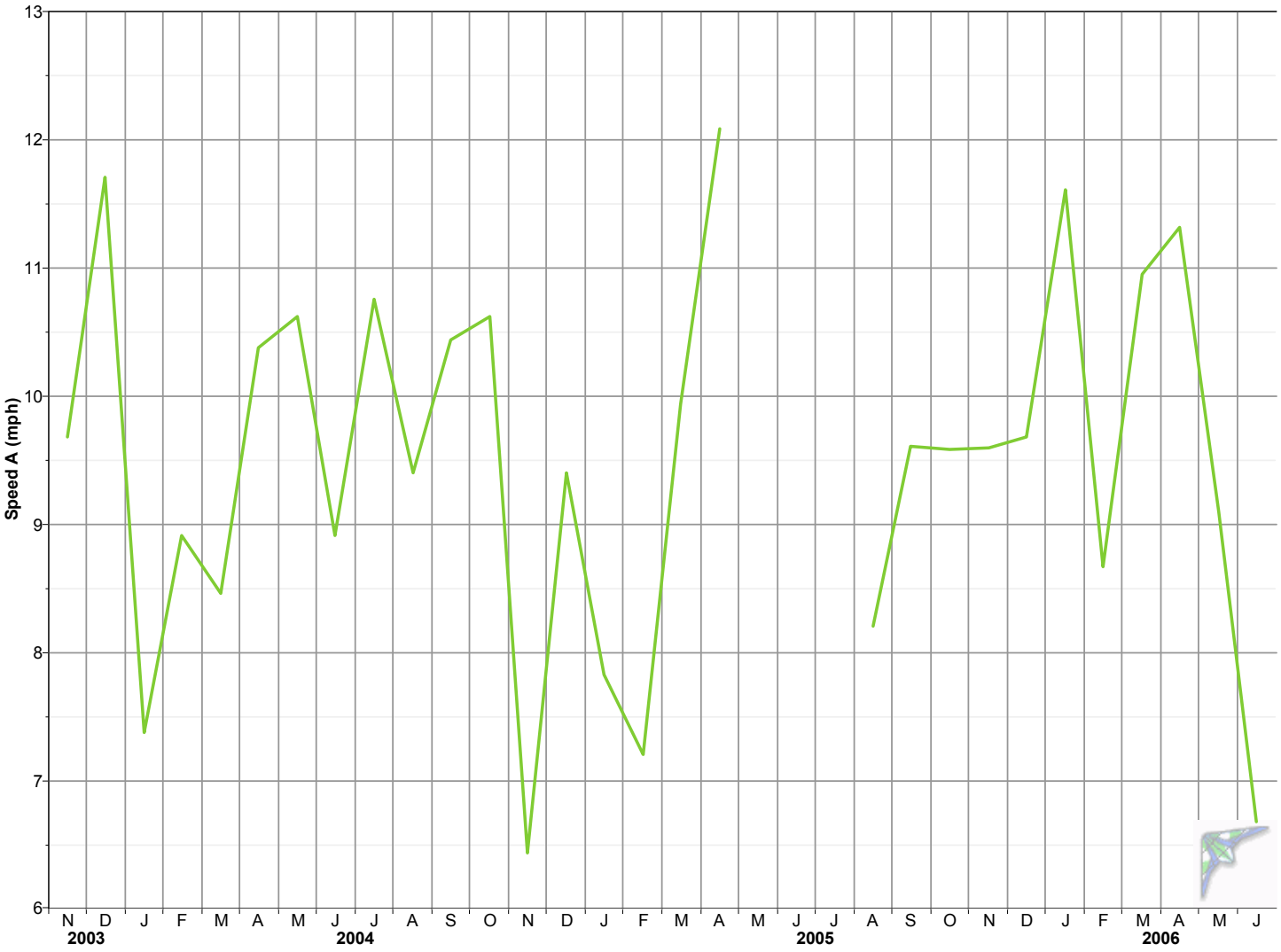
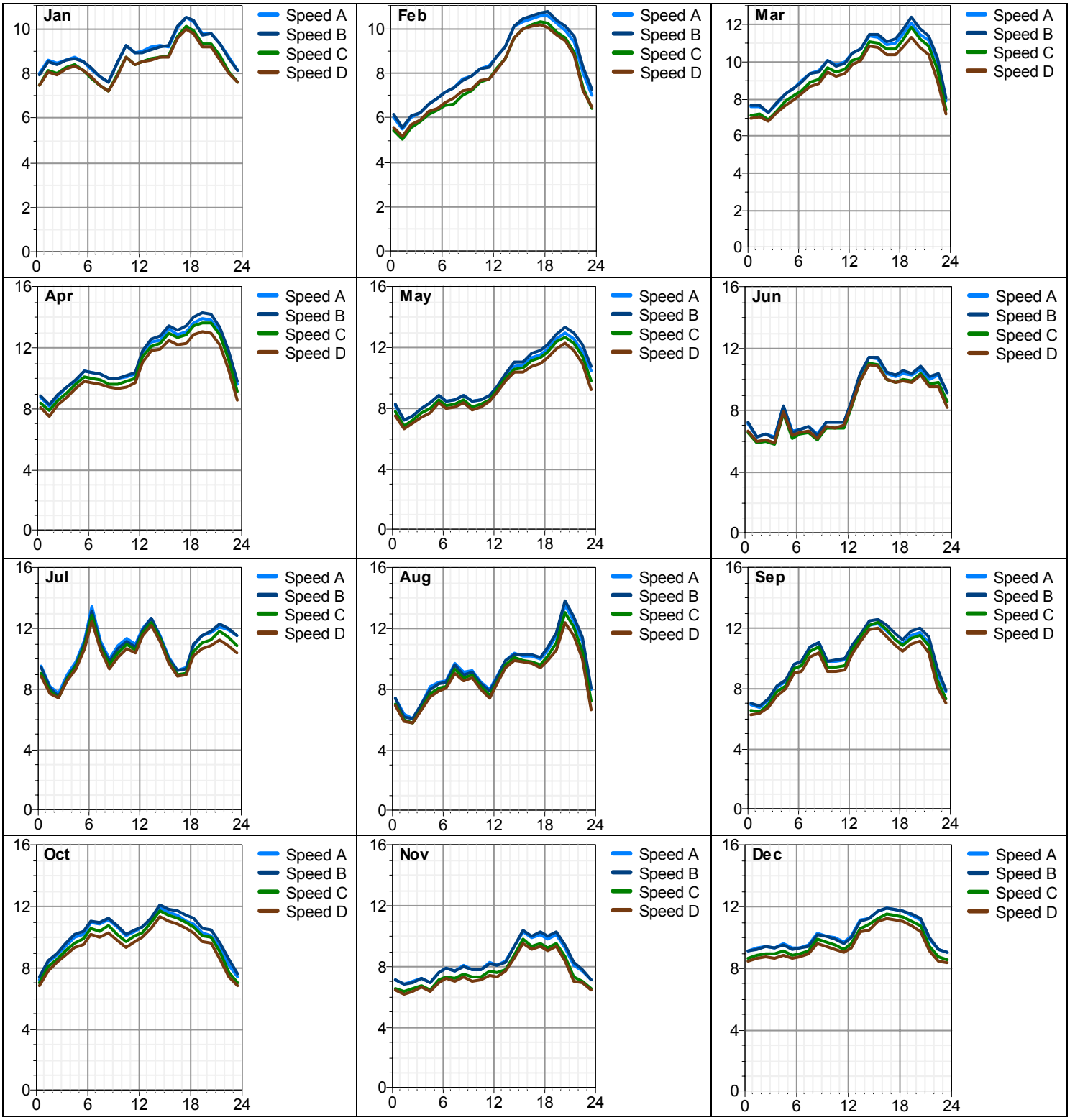
Monthly Wind Speed Statistics

	Year	Month	Records	Recovery Rate (%)	Mean (mph)	Min (mph)	Max (mph)	Std. Dev. (mph)	Weibull k	Weibull c (mph)
1	2003	Nov	1,626	99.3	9.68	0.8	38.5	9.289	0.978	9.59
2	2003	Dec	4,104	91.9	11.71	0.8	42.7	9.892	1.027	11.83
3	2004	Jan	4,452	99.7	7.38	0.8	40.2	8.306	0.896	6.96
4	2004	Feb	4,176	100.0	8.92	0.8	43.9	8.458	0.963	8.77
5	2004	Mar	4,464	100.0	8.46	0.8	34.3	7.425	1.073	8.69
6	2004	Apr	4,320	100.0	10.38	0.8	37.2	7.625	1.274	11.16
7	2004	May	4,464	100.0	10.62	0.8	46.1	7.584	1.319	11.49
8	2004	Jun	4,320	100.0	8.91	0.8	36.1	6.607	1.296	9.62
9	2004	Jul	4,464	100.0	10.75	0.8	36.8	7.273	1.408	11.76
10	2004	Aug	4,464	100.0	9.40	0.8	36.7	7.572	1.148	9.86
11	2004	Sep	4,320	100.0	10.44	0.8	42.5	7.824	1.233	11.14
12	2004	Oct	4,464	100.0	10.62	0.8	33.1	7.579	1.292	11.43
13	2004	Nov	4,320	100.0	6.43	0.8	34.0	6.398	1.064	6.60
14	2004	Dec	4,290	96.1	9.40	0.8	44.6	9.021	0.995	9.38
15	2005	Jan	4,452	99.7	7.82	0.8	33.3	8.099	0.895	7.40
16	2005	Feb	4,032	100.0	7.20	0.8	39.0	7.236	1.002	7.21
17	2005	Mar	4,464	100.0	9.94	0.8	31.9	7.108	1.317	10.75
18	2005	Apr	3,036	70.3	12.09	0.8	39.7	7.563	1.477	13.24
19	2005	May	0	0.0	0.00	0.0	0.0	0.000	2.000	0.00
20	2005	Jun	0	0.0	0.00	0.0	0.0	0.000	2.000	0.00
21	2005	Jul	0	0.0	0.00	0.0	0.0	0.000	2.000	0.00
22	2005	Aug	204	4.6	8.20	0.8	24.1	6.567	1.222	8.77
23	2005	Sep	4,320	100.0	9.61	0.8	29.8	6.828	1.297	10.35
24	2005	Oct	4,464	100.0	9.58	0.8	31.8	7.786	1.099	9.91
25	2005	Nov	4,320	100.0	9.59	0.8	36.8	9.140	0.945	9.35
26	2005	Dec	4,332	97.0	9.69	0.8	45.3	9.721	0.923	9.33
27	2006	Jan	4,452	99.7	11.61	0.8	42.3	9.798	1.065	11.89
28	2006	Feb	4,032	100.0	8.67	0.8	37.4	8.250	1.008	8.70
29	2006	Mar	4,464	100.0	10.95	0.8	36.8	7.131	1.454	12.01
30	2006	Apr	4,320	100.0	11.32	0.8	43.9	7.015	1.512	12.44
31	2006	May	4,464	100.0	9.10	0.8	32.6	6.289	1.402	9.96
32	2006	Jun	806	100.0	6.67	0.8	28.2	5.348	1.240	7.16
33	All data		114,410	85.4	9.59	0.8	46.1	8.012	1.112	9.97

Probability Distribution Function of Average Wind Speed



Monthly Average Wind Speeds



Daily Wind Speed Profiles by Month