

APPENDIX C WIND POWER

Table C. Monthly average wind power in the U.S. & Southern Canada.

Source: *Wind Power Climatology in the U.S., NTIS Report #SAND 74-0348, Sandia Labs, Albuquerque, NM.*

Canada (Province, City)	Ave. Wind Speed			Windpower, Watts/m ²												
	knots	mph	m/s	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE
AL Lethbridge	12.5	14.4	6.4	625	563	356	450	370	319	202	246	279	510	546	567	418
BC Vancouver	6.5	7.5	3.3	72	75	85	83	53	48	52	39	48	62	80	75	64
MN Winnipeg	10.7	12.3	5.5	206	218	227	293	266	177	116	138	174	209	239	210	206
NB Fredericton	7.7	8.9	4	153	124	148	116	99	86	69	64	70	94	98	127	104
NS Greenwood	8.8	10.1	4.5	278	240	276	207	148	120	87	98	102	167	206	243	181
ON Toronto	8.6	9.9	4.4	198	177	157	150	110	87	69	68	85	105	177	152	128
QU St. Hubert	9.3	10.7	4.8	224	213	163	153	145	138	100	83	110	136	203	177	153
SA Regina	11.9	13.7	6.1	327	286	315	350	368	243	162	186	286	232	279	300	278

United States (State, City)	Ave. Wind Speed		Windpower, Watts/m ²													
	knots	mph	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE	
	m/s															
AL Huntsville	6.6	7.6	3.4	80	109	118	87	48	37	29	31	56	50	78	87	67
AK Anchorage	4.9	5.6	2.5	57	66	29	27	41	40	23	22	30	30	59	23	37
AZ Flagstaff	6.4	7.4	3.3	71	70	96	95	93	86	40	33	52	56	69	69	69
CA S. L. Obispo	6.9	7.9	3.5	60	69	134	127	146	173	105	120	131	129	89	73	113
CO Denver	8.8	10.1	4.5	117	139	182	183	132	126	94	83	85	88	118	136	123
CT Bridgeport	10.4	12.0	5.3	244	274	256	219	158	114	96	101	139	192	214	251	188
DE Wilmington	8.1	9.3	4.2	127	149	175	147	105	85	66	59	61	84	118	126	108
FL Cape Kennedy	7.4	8.5	3.8	82	107	103	90	71	55	41	37	82	94	75	76	76
GA Macon	8.0	9.2	4.1	92	112	103	117	69	59	56	44	61	56	68	73	76
HI Honolulu	9.8	11.3	5.0	118	131	164	163	155	172	189	194	141	128	133	144	153
ID Idaho Falls	9.7	11.2	5.0	226	185	321	295	241	214	132	139	166	184	178	172	204
IL Springfield	10.6	12.2	5.4	115	253	308	295	212	131	92	82	119	152	263	242	188
IN Lafayette	10.3	11.8	5.3	290	317	290	316	175	142	91	98	112	126	196	222	197
IA Iowa City	8.6	9.9	4.4	175	195	231	229	118	82	71	61	81	100	205	159	142
KS Topeka	8.6	9.9	4.4	117	134	186	185	132	115	69	79	88	95	125	104	119
KY Fort Knox	6.6	7.6	3.4	108	121	126	111	64	46	30	25	39	47	98	96	76
LA Baton Rouge	7.4	8.5	3.8	105	106	102	95	72	52	40	36	50	53	79	92	73
ME Portland	8.4	9.7	4.3	127	145	158	140	103	80	197	61	83	101	112	120	119
MD Baltimore	6.9	7.9	3.5	107	111	119	95	53	44	37	39	34	46	57	64	67
MA Boston	11.8	13.6	6.1	314	321	314	268	195	150	128	108	313	313	230	277	244
MI Lansing	10.8	12.4	5.6	273	298	356	287	178	112	69	74	123	146	251	269	202
MN St. Paul	9.4	10.8	4.8	127	142	152	211	186	133	88	86	112	130	167	123	138

United States (State, City)	Ave. Wind Speed		Windpower, Watts/m ²													
	knots	mph	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVE	
MS Biloxi	6.8	7.8	3.5	82	79	83	81	64	49	38	35	58	5	66	68	59
MO St. Louis	7.9	9.1	4.1	95	116	143	138	94	60	41	36	5	60	92	96	81
MT Billings	10.0	11.5	5.1	230	210	185	202	165	137	110	99	128	162	218	237	173
NB Lincoln	9.4	10.8	4.8	163	173	258	251	193	143	97	102	102	19	173	146	151
NV Las Vegas	8.7	10.0	4.5	105	142	186	229	225	209	166	141	111	122	67	92	150
NH Manchester	6.7	7.7	3.4	105	150	134	17	83	68	49	37	51	72	95	127	82
NJ Newark	8.7	10.0	4.5	145	145	157	126	107	80	73	68	71	96	100	110	106
NM Santa Fe	10.3	11.8	5.3	218	200	308	308	248	217	138	113	135	154	184	194	201
NY Syracuse	8.4	9.7	4.3	158	174	166	162	108	80	66	61	76	91	129	138	117
NC Raleigh	6.7	7.7	3.4	89	81	106	113	53	51	49	37	45	41	64	61	66
ND Fargo	11.7	13.5	6.0	280	264	293	389	286	215	144	160	225	280	337	270	262
OH Columbus	7.2	8.3	3.7	109	118	136	116	74	52	37	35	44	55	100	91	80
OK Oklahoma C.	11.4	13.1	5.9	263	277	370	412	319	318	176	153	197	230	242	248	267
OR Portland	6.8	7.8	3.5	139	104	91	61	44	39	45	38	38	51	91	131	73
PA Erie	9.1	10.5	4.7	234	191	208	147	92	77	67	62	94	111	176	216	139
RI Providence	9.5	10.9	4.9	173	189	129	180	140	117	98	88	100	177	150	163	142
SC Charleston	7.5	8.6	3.9	93	124	130	117	69	64	54	5	63	59	71	81	77
SD Pierre	9.8	11.3	5.0	216	205	255	294	202	141	124	129	149	168	230	207	193
TN Knoxville	7.0	8.0	3.6	133	135	156	161	85	66	53	42	47	54	99	100	94
TX Dallas	9.1	10.5	4.7	155	166	220	199	154	144	97	82	85	99	15	131	129
UT Ogden	8.0	9.2	4.1	102	118	127	126	130	124	124	130	122	123	99	92	118
VA Norfolk	8.8	10.1	4.5	154	182	171	139	103	84	75	80	111	127	130	128	123
WA Spokane	7.2	8.3	3.7	118	138	134	121	92	87	67	62	74	84	92	123	99
WV Morgantown	5.8	6.7	3.0	73	73	86	67	37	26	18	16	22	34	64	81	50
WI Madison	8.8	10.1	4.5	139	148	199	197	153	97	72	62	93	112	170	136	131
WY Laramie	11.5	13.2	5.9	498	506	520	339	313	300	152	173	212	259	338	379	331