

Summary of Recent Results from Publicly Available Avian Radar Studies Conducted in the Eastern United States.¹

Project Site	Landscape	Season	Average Passage Rate (t/km/hr)	Range in Nightly Passage Rates	Average Flight Direction	Average Flight Height (m)	(Turbine Ht) % Targets Below Turbine Height	Author
2003								
Chautauqua, NY	Great Lakes shore	Spring	395	15-1702	29	528	(125 m) 4%	Cooper <i>et.al.</i> , 2004
Chautauqua, NY	Great Lakes shore	Fall	238	10-905	199	532	(125 m) 4 %	Cooper <i>et.al.</i> , 2004
Mt. Storm, WV	Forested ridge	Fall	241	8-852	184	410	N/A	Cooper <i>et.al.</i> , 2004
2004								
Prattsburgh, NY	Agricultural plateau	Fall	200	18-863	177	365	(125 m) 9%	Mabee <i>et.al.</i> , 2005
Martindale, PA	Reclaimed minelands	Fall	187	N/A	188	436	(N/A) 8%	Young, 200
Deerfield, VT (Existing Facility)	Forested ridge	Fall	175	7-519	194	438	(100 m) <1%	Woodlot Alternatives, Inc. 2005.
Deerfield, VT (Western Expansion)	Forested ridge	Fall	193	8-1121	223	624	(100 m) 5%	Woodlot Alternatives, Inc. 2005.
Deerfield, VT (Valley Location)	Forested ridge	Fall	150	58-404	214	503	(100 m) < 1%	Woodlot Alternatives, Inc. 2005.
Deerfield, VT (3 sites combined)	Forested ridge	Fall	178	7-1121	212	611	(100 m) 3%	Woodlot Alternatives, Inc. 2005.
Sheffield, VT	Forested ridge	Fall	91	19-320	200	566	(125 m) 1%	Woodlot Alternatives, Inc. 2006.
Casselman, PA	Forested ridge	Fall	174	n/a	n/a	436	(125 m) 7%	NYSDEC [Internet]. c2008.
Dans Mountain, MD	Forested ridge	Fall	188	2-633	193	542	(125 m) 11%	Woodlot Alternatives, Inc. 2004.
Prattsburgh, NY	Agricultural plateau	Fall	193	12-474	188	516	(125 m) 3%	Woodlot Alternatives, Inc. 2005.
Franklin, WV	Forested ridge	Fall	229	7-926	175	583	(125 m) 8%	Woodlot Alternatives, Inc. 2005.
2005								
Dairy Hills, NY	Agricultural plateau	Fall	64	n/a	180	466	(n/a) 10%	NYSDEC [Internet]. c2008.
Perry, NY	Agricultural plateau	Fall	64	n/a	180	466	(125 m) 10%	NYSDEC [Internet]. c2008.
Alabama, NY	Agricultural plateau	Fall	67	n/a	219	489	(125 m) 11%	NYSDEC [Internet]. c2008.

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Alabama, NY	Agricultural plateau	Fall	111	n/a	35	413	(125 m) 14%	NYSDEC [Internet]. c2008.
Churubusco, NY	Great Lakes plain/ADK foothills	Fall	152	9-429	193	438	(120 m) 5%	Woodlot Alternatives, Inc. 2005.
Maple Ridge, NY	Agricultural plateau	Fall	158	n/a	195	415	(125 m) 8%	NYSDEC [Internet]. c2008.
Swallow Farm, PA	Forested ridge	Fall	166	n/a	n/a	402	(125 m) 5%	NYSDEC [Internet]. c2008.
Sheldon, NY	Agricultural plateau	Fall	197	43-529	213	422	(120 m) 3%	Woodlot Alternatives, Inc. 2006.
Ellenberg, NY	Great Lakes plain/ADK foothills	Fall	197	n/a	162	333	(125 m) 12%	NYSDEC [Internet]. c2008.
Prattsburgh-Italy, NY	Agricultural plateau	Fall	200	n/a	177	365	(125 m) 9%	NYSDEC [Internet]. c2008.
Kibby, ME (Range 1)	Forested ridge	Fall	201	12-783	196	352	(125 m) 12%	Woodlot Alternatives, Inc. 2006.
Fayette Cty, PA	Forested ridge	Fall	297	n/a	n/a	426	(125 m) 5%	NYSDEC [Internet]. c2008.
Stamford, NY	Forested ridge	Fall	315	22-784	251	494	(110 m) 3%	Woodlot Alternatives, Inc. 2007.
Preston Cty, WV	Forested ridge	Fall	379	n/a	n/a	420	(125 m) 10%	Plissner <i>et al.</i> 2006
Jordanville, NY	Agricultural plateau	Fall	380	26-1019	208	440	(125 m) 6%	NYSDEC [Internet]. c2008.
Highland, VA	Forested ridge	Fall	385	n/a	n/a	442	(125 m) 12%	Plissner <i>et al.</i> 2006
Clayton, NY	Agricultural plateau	Fall	418	83-877	168	475	(150 m) 10%	Woodlot Alternatives, Inc. 2005.
Bliss, NY	Agricultural plateau	Fall	440	52-1392	n/a	411	(125 m) 13%	NYSDEC [Internet]. c2008.
Kibby, ME (Valley)	Forested ridge	Fall	452	52-995	193	391	(125 m) 16%	Woodlot Alternatives, Inc. 2006.
Howard, NY	Agricultural plateau	Fall	481	18-1434	185	491	(125 m) 5%	Woodlot Alternatives, Inc. 2006.
Mars Hill, ME	Forested ridge	Fall	512	60-1092	228	424	(120 m) 8%	Woodlot Alternatives, Inc. 2006.

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Deerfield, VT	Forested ridge	Fall	559	3-1736	221	395	(100 m) 13%	Woodlot Alternatives, Inc. 2006.
Kibby, ME (Mountain)	Forested ridge	Fall	565	109-1107	167	370	(125 m) 16%	Woodlot Alternatives, Inc. 2006.
Fairfield, NY	Agricultural plateau	Fall	691	116-1351	198	516	(145 m) 6% ¹	Woodlot Alternatives, Inc. 2005.
Munnsville, NY	Agricultural plateau	Fall	732	15-1671	223	644	(118 m) 2%	Woodlot Alternatives, Inc. 2005.
Ellenberg, NY	Great Lakes plain/ADK foothills	Spring	110	n/a	30	338	(125 m) 20%	NYSDEC [Internet]. c2008.
Sheldon, NY	Agricultural plateau	Spring	112	6-558	25	422	(120 m) 6%	Woodlot Alternatives, Inc. 2006.
Munnsville, NY	Agricultural plateau	Spring	160	6-1065	31	291	(118 m) 25%	Woodlot Alternatives, Inc. 2005.
Sheffield, VT	Forested ridge	Spring	166	12-440	40	552	(125 m) 6%	Woodlot Alternatives, Inc. 2006.
Stamford, NY	Forested ridge	Spring	210	10-785	46	431	(110 m) 8%	Woodlot Alternatives, Inc. 2007.
Churubusco, NY	Great Lakes plain/ADK foothills	Spring	254	3-728	40	422	(120 m) 11%	Woodlot Alternatives, Inc. 2005.
Prattsburgh, NY	Agricultural plateau	Spring	277	70-621	22	370	(125 m) 16%	Woodlot Alternatives, Inc. 2005.
Deerfield, VT	Forested ridge	Spring	404	74-973	69	523	(100 m) 4%	Woodlot Alternatives, Inc. 2005.
Jordanville, NY	Agricultural plateau	Spring	409	26-1410	40	371	(125 m) 21%	Woodlot Alternatives, Inc. 2005.
Franklin, NY	Forested ridge	Spring	457	34-1240	53	492	(125 m) 11%	Woodlot Alternatives, Inc. 2005.
Clayton, NY	Agricultural plateau	Spring	460	71-1769	30	443	(150 m) 14%	Woodlot Alternatives, Inc. 2005.
Dans Mountain, MD	Forested ridge	Spring	493	63-1388	38	541	(125 m) 15%	Woodlot Alternatives, Inc. 2005.
Fairfield, NY	Agricultural plateau	Spring	509	80-1175	44	419	(145 m) 16% ¹	Woodlot Alternatives, Inc. 2005.

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2006								
Villanova, NY	Great Lakes plain	Fall	189	16-604	216	353	(120 m) 9%	Stantec Consulting Services Inc. 2008.
Wethersfield, NY	Agricultural plateau	Fall	256	31-701	208	344	(125 m) 11%	NYSDEC [Internet]. c2008.
Centerville, Allegany Cty, NY	Agricultural plateau	Fall	259	12-877	208	350	(125 m) 12%	NYSDEC [Internet]. c2008.
Somerset Cty, PA	Forested ridge	Fall	316	n/a	n/a	374	(125 m) 8%	NYSDEC [Internet]. c2008.
Cape Vincent, NY	Great Lakes plain	Fall	346	n/a	209	490	(125 m) 8%	NYSDEC [Internet]. c2008.
Bedford Cty, PA	Forested ridge	Fall	438	n/a	n/a	379	(125 m) 10%	NYSDEC [Internet]. c2008.
Stetson, ME	Forested ridge	Fall	476	131-1192	227	378	(125 m) 13%	Woodlot Alternatives, Inc. 2007.
Dutch Hill, NY	Agricultural plateau	Fall	535	n/a	215	358	(125 m) 11%	NYSDEC [Internet]. c2008.
Lempster, NH	Forested ridge	Fall	620	133-1609	206	387	(125 m) 8%	Woodlot Alternatives, Inc. 2007.
Chateaugay, NY	Agricultural plateau	Fall	643	38-1373	212	431	(120 m) 8%	Woodlot Alternatives, Inc. 2006.
Kibby, ME (Range 1)	Forested ridge	Spring	197	6-471	50	412	(120 m) 22%	Woodlot Alternatives, Inc. 2006.
Deerfield, VT	Forested ridge	Spring	263	5-934	58	435	(100 m) 11%	Woodlot Alternatives, Inc. 2006.
Centerville, NY	Agricultural plateau	Spring	290	25-1140	22	351	(125 m) 16%	Mabee <i>et al.</i> 2006a.
Wethersfield, NY	Agricultural plateau	Spring	324	41-907	12	355	(125 m) 19%	Mabee <i>et al.</i> 2006a.
Mars Hill, ME	Forested ridge	Spring	338	76-674	58	384	(120 m) 14%	Woodlot Alternatives, Inc. 2006.
Chateaugay, NY	Agricultural plateau	Spring	360	54-892	48	409	(120 m) 18%	Woodlot Alternatives, Inc. 2006.
Howard, NY	Agricultural plateau	Spring	440	35-2270	27	426	(125 m) 13%	Woodlot Alternatives, Inc. 2006.

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Kibby, ME (Valley)	Forested ridge	Spring	443	45-1242	61	334	(120 m) n/a	Woodlot Alternatives, Inc. 2006.
Kibby, ME (Mountain)	Forested ridge	Spring	456	88-1500	67	368	(120 m) 14%	Woodlot Alternatives, Inc. 2006.
Kibby, ME (Range 2)	Forested ridge	Spring	512	18-757	86	378	(120 m) 25%	Woodlot Alternatives, Inc. 2006.
2007								
New Grange, NY	Great Lakes plain	Fall	112	n/a	208	458	(125 m) 10%	NYSDEC [Internet]. c2008.
Laurel Mountain, WV	Forested ridge	Fall	321	76-513	209	533	(130 m) 6%	Stantec Consulting Services Inc. 2007.
Errol, NH	Forested ridge	Fall	366	54 to 1234	223	343	(125 m) 15%	Stantec Consulting Inc. 2007.
Lincoln, ME	Forested ridge	Fall	368	82-953	284	343	(120 m) 13%	Woodlot Alternatives, Inc. 2008.
Roxbury, ME	Forested ridge	Fall	420	88-1006	227	365	(130 m) 14%	Woodlot Alternatives, Inc. 2007.
Allegany, NY	Forested ridge	Fall	451	n/a	230	382	(150 m) 14%	NYSDEC [Internet]. c2008.
New Creek, WV	Forested ridge	Fall	811	263-1683	231	360	(130 m) 17%	Stantec Consulting Services Inc. 2008.
Wolfe Island, Ontario, Canada*	Great Lakes island	Fall	n/a	n/a	95	233	(125m) 23%	NYSDEC [Internet]. c2008.
Stetson, ME	Forested ridge	Spring	147	3-434	55	210	(120 m) 22%	Woodlot Alternatives, Inc. 2007.
Cape Vincent, NY	Great Lakes plain	Spring	166	n/a	34	441	(125 m) 14%	Western EcoSystems Technology, Inc. (WEST). 2007.
New Grange, NY	Great Lakes plain	Spring	175	n/a	18	450	(125 m) 13%	NYSDEC [Internet]. c2008.
Laurel Mountain, WV	Forested ridge	Spring	277	13-646	27	533	(130 m) 3%	Stantec Consulting Services Inc. 2007.
Errol, NH	Forested ridge	Spring	342	2 to 870	76	332	(125 m) 14%	Stantec Consulting Inc. 2007.

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Villanova, NY	Great Lakes plain	Spring	419	22-1190	10	493	(120 m) 3%	Stantec Consulting Services Inc. 2008.
Roxbury, ME	Forested ridge	Spring	539	137-1256	52	312	(130) 18%	Woodlot Alternatives, Inc. 2007.
Lempster, NH	Forested ridge	Spring	542	49-1094	49	358	(125 m) 18%	Woodlot Alternatives, Inc. 2007.
2008								
Housfield, NY	Great Lakes island	Fall	281	64-835	207	298	(125 m) 17%	Stantec Consulting Services Inc. 2008.
Georgia Mountain, VT	Forested ridge	Fall	326	56-700	230	371	(120 m) 7%	Stantec Consulting Services Inc. 2008.
Oakfield, ME	Forested ridge	Fall	501	116-945	200	309	(125 m) 18%	Woodlot Alternatives, Inc. 2008.
Lincoln, ME	Forested ridge	Spring	247	40-766	75	316	(120 m) 13%	Stantec Consulting Services Inc. 2008.
Allegany, NY	Forested ridge	Spring	268	53-755	18	316	(150 m) 19%	NYSDEC [Internet]. c2008.
Tenney, NH	Forested ridge	Fall	470	94-1174	260	342	(125m) 13%	Stantec Consulting Services Inc. 2008.
Highland, ME	Forested ridge	Fall	549	68-1201	227	348	(130.5m) 16%	Stantec Consulting. 2009.
Georgia Mountain, VT	Forested ridge	Fall	326	56-700	230	371	(120 m) 7%	Stantec Consulting Services Inc. 2008.
Housfield, NY	Great Lakes island	Fall	281	64-835	207	298	(125 m) 17%	Stantec Consulting Services Inc. 2008.
Oakfield, ME	Forested ridge	Spring	498	132-899	33	276	(120 m) 21%	Stantec Consulting Services Inc. 2008.
Housfield, NY	Great Lakes island	Spring	624	74-1630	51	319	(125 m) 19%	Stantec Consulting Services Inc. 2008.
Rollins, ME	Forested ridge	Spring	247	40 - 766	75	316	(120 m) 13%	Stantec Consulting. 2008.
Tenney, NH	Forested ridge	Spring	234	35-549	77	321	(125m) 12%	Stantec Consulting Services Inc. 2008.
New Creek, WV	Forested ridge	Spring	1020	289-2610	30	354	(130 m) 13%	Stantec Consulting Services Inc. 2008.

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Rollins, ME	Forested ridge	Fall	247	40 - 766	75	316	(120 m) 13%	Stantec Consulting. 2008.
2009								
Stetson, ME	Forested ridge	Fall	457	106-1746	227	420	(119m) 2%	Stantec Consulting Services. 2010.
Vermont Community Wind Farm, VT	Forested ridge	Fall	443	110-1029	215	330	(130m) 15%	Stantec Consulting Services. 2009.
Highland, ME (location 2)	Forested ridge	Spring	511	8-1735	53	314	(130.5m) 23%	Stantec Consulting Services Inc. 2009.
Highland, ME (location 1)	Forested ridge	Spring	496	10-1262	47	287	(130.5m) 26%	Stantec Consulting Services Inc. 2009.
Sisk (Kibby Expansion), ME	Forested ridge	Spring	207	50-452	28	293	(125m) 18%	Stantec Consulting Services Inc. 2009.
Vermont Community Wind Farm, VT	Forested ridge	Spring	435	49-771	48	320	(130m) 22%	Stantec Consulting Services Inc. 2009.
Moresville, Delaware Cty, NY	Forested ridge	Spring	230	30-575	53	314	(125m)12%	Stantec Consulting Services Inc. 2009.
Sisk (Kibby Expansion) ME	Forested ridge	Fall	458	44-1067	206	287	(125m) 23%	Stantec Consulting Services. 2009.

¹ Table provided by Stantec