

Table 2. Flight height characteristics and exposure indices by species observed during diurnal raptor migration surveys at the St. Lawrence Windpower project area.

Species	Mean Use	% birds flying	Relation to rotor-swept area ⁵			Exposure Index ⁶
			% below	% within	% above	
Waterbirds						
Double-crested cormorant	0.02	100.00	100.00	0.00	0.00	0.00
Great black-backed gull	0.01	100.00	0.00	100.00	0.00	0.01
Great blue heron	0.74	100.00	18.33	71.67	10.00	0.53
Herring gull	0.23	100.00	100.00	0.00	0.00	0.00
Ring-billed gull	12.67	69.26	56.32	42.28	1.40	3.71
Unidentified gull	93.46	56.32	54.94	44.09	0.97	23.21
Waterfowl						
Canada goose	40.17	94.96	8.03	43.88	48.09	16.74
Mallard	0.38	96.77	6.67	90.00	3.33	0.33
Tundra swan	0.04	100.00	0.00	100.00	0.00	0.04
Unidentified duck	0.52	100.00	100.00	0.00	0.00	0.00
Unidentified goose	0.59	100.00	0.00	0.00	100.00	0.00
Unidentified scaup	1.62	100.00	0.00	23.66	76.34	0.38
Raptors						
<i>Accipiters</i>						
Cooper's hawk	0.05	100.00	0.00	100.00	0.00	0.05
Sharp-shinned hawk	0.16	92.31	16.67	58.33	25.00	0.09
Unidentified accipiter	NA	100.00	0.00	100.00	0.00	NA
<i>Buteos</i>						
Broad-winged hawk	0.16	100.00	7.69	38.46	53.85	0.06
Red-tailed hawk	1.20	87.25	13.48	52.81	33.71	0.55
Rough-legged hawk	1.42	82.61	38.95	47.37	13.68	0.56
Unidentified buteo	0.31	100.00	0.00	40.00	60.00	0.12

⁵ Defined as the area between approximately 25 and 125 m above ground level

⁶ Exposure index = (mean use) * (% individuals flying) * (% flying within rotor-swept area)

<i>Eagles</i>						
Bald Eagle	0.01	100.00	0.00	0.00	100.00	0.00
<i>Falcons</i>						
American kestrel	0.33	77.78	95.24	4.76	0.00	0.01
Merlin	0.04	100.00	66.67	33.33	0.00	0.01
<i>Other Raptors</i>						
Northern harrier	1.59	94.57	76.23	20.49	3.28	0.31
Osprey	0.02	100.00	50.00	50.00	0.00	0.01
Turkey vulture	3.42	99.29	9.61	72.60	17.79	2.47
Unidentified raptor	0.06	100.00	0.00	60.00	40.00	0.04
<i>Other Birds</i>						
American crow	5.28	90.89	61.44	38.30	0.26	1.84
Common raven	0.09	57.14	50.00	50.00	0.00	0.02
European starling	0.37	100.00	100.00	0.00	0.00	0.00
Pileated woodpecker	0.02	100.00	100.00	0.00	0.00	0.00
Ring-necked pheasant	0.01	0.00	NA	NA	NA	NA
Rose-breasted grosbeak	0.04	100.00	0.00	100.00	0.00	0.04
Unidentified yellowlegs	0.05	100.00	100.00	0.00	0.00	0.00
Wild turkey	1.10	0.00	NA	NA	NA	NA
Wilson's snipe	0.11	100.00	100.00	0.00	0.00	0.00
