

Stantec

GRAND RENEWABLE ENERGY PARK

NATURAL HERITAGE ASSESSMENT AND ENVIRONMENTAL IMPACT STUDY

Appendix F

Wildlife Species List

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GRAND RENEWABLE ENERGY PARK

NATURAL HERITAGE ASSESSMENT AND ENVIRONMENTAL IMPACT STUDY

Appendix F1

Wildlife Species List - Wind Project

COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status	
								PIF Priority Species	Comment
BUTTERFLIES									
Cabbage White	<i>Pieris rapae</i>	SNA	G5						
Clouded Sulphur	<i>Colias philodice</i>	S5	G5						
Spring Azure	<i>Celastrina ladon</i>	S5	G5						
Mourning Cloak	<i>Nymphalis antiopa</i>	S5	G5						
Monarch	<i>Danaus plexippus</i>	S4B, S2N	G5	SC	SC				
AMPHIBIANS									
American Toad	<i>Anaxyrus americanus</i>	S5	G5						
Tetraploid Gray Treefrog	<i>Hyla versicolor</i>	S5	G5						
Western Chorus Frog (carolinian)	<i>Pseudacris triseriata</i>	S4	G5	NAR	NAR				
Spring Peeper	<i>Pseudacris crucifer</i>	S5	G5						
Northern Green Frog	<i>Lithobates clamitans</i>	S5	G5						
Wood Frog	<i>Lithobates sylvatica</i>	S5	G5						
Northern Leopard Frog	<i>Lithobates pipiens</i>	S5	G5	NAR	NAR				
REPTILES									
Snapping Turtle	<i>Chelydra serpentina</i>	S3	G5	SC	SC				
Eastern Gartersnake	<i>Thamnophis sirtalis</i>	S5	G5						
BIRDS									
Canada Goose	<i>Branta canadensis</i>	S5	G5						
Wood Duck	<i>Aix sponsa</i>	S5	G5						
Mallard	<i>Anas platyrhynchos</i>	S5	G5						
Wild Turkey	<i>Meleagris gallopava</i>	S5	G5						
Great Blue Heron	<i>Ardea herodias</i>	S5	G5						
Turkey Vulture	<i>Cathartes aura</i>	S5B	G5						
Northern Harrier	<i>Circus cyaneus</i>	S4B	G5	NAR	NAR	55		X	Non-breeding; observed September 30
Sharp-shinned Hawk	<i>Accipiter striatus</i>	S5	G5	NAR	NAR	20-30			
Cooper's Hawk	<i>Accipiter cooperii</i>	S4	G5	NAR	NAR	4-50+			
Red-tailed Hawk	<i>Buteo jamaicensis</i>	S5	G5	NAR	NAR				
Rough-legged Hawk	<i>Buteo lagopus</i>	S1B, S4N	G5	NAR	NAR				Non-breeding; observed December
American Kestrel	<i>Falco sparverius</i>	S5B	G5					X	
Sandhill Crane	<i>Grus canadensis</i>	S5B	G5	NAR	NAR				
Killdeer	<i>Charadrius vociferus</i>	S5B, S5N	G5						
Upland Sandpiper	<i>Bartramia longicauda</i>	S4B	G5			25			
American Woodcock	<i>Scolopax minor</i>	S4B	G5						
Ring-billed Gull	<i>Larus delawarensis</i>	S5B, S4N	G5						
Rock Pigeon	<i>Columba livia</i>	SNA	G5						
Mourning Dove	<i>Zenaidura macroura</i>	S5	G5						
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S4B	G5						

COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	S5B	G5					X	
Great Horned Owl	<i>Bubo virginianus</i>	S5	G5						
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	S5B	G5						
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	S4	G5						
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	S5B	G5			30-50			Non-breeding; observed September 30
Downy Woodpecker	<i>Picoides pubescens</i>	S5	G5						
Hairy Woodpecker	<i>Picoides villosus</i>	S5	G5			10			
Northern Flicker	<i>Colaptes auratus</i>	S4B	G5					X	
Pileated Woodpecker	<i>Dryocopus pileatus</i>	S5	G5			30-50*			
Eastern Wood-Pewee	<i>Contopus virens</i>	S4B	G5					X	
Willow Flycatcher	<i>Empidonax traillii</i>	S5B	G5					X	
Least Flycatcher	<i>Empidonax minimus</i>	S4B	G5						
Eastern Phoebe	<i>Sayornis phoebe</i>	S5B	G5						
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S4B	G5						
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S4B	G5					X	
Blue-headed Vireo	<i>Vireo solitarius</i>	S5B	G5			100	6,7		Non-breeding; observed October 12
Warbling Vireo	<i>Vireo gilvus</i>	S5B	G5						
Red-eyed Vireo	<i>Vireo olivaceus</i>	S5B	G5						
Blue Jay	<i>Cyanocitta cristata</i>	S5	G5						
American Crow	<i>Corvus brachyrhynchos</i>	S5B	G5						
Horned Lark	<i>Eremophila alpestris</i>	S5B	G5						
Purple Martin	<i>Progne subis</i>	S4B	G5						
Tree Swallow	<i>Tachycineta bicolor</i>	S4B	G5						
Barn Swallow	<i>Hirundo rustica</i>	S4B	G5						
Black-capped Chickadee	<i>Poecile atricapillus</i>	S5	G5						
Red-breasted Nuthatch	<i>Sitta canadensis</i>	S5	G5			0			
White-breasted Nuthatch	<i>Sitta carolinensis</i>	S5	G5			10			
House Wren	<i>Troglodytes aedon</i>	S5B	G5						
Golden-crowned Kinglet	<i>Regulus satrapa</i>	S5B	G5			0	7		Non-breeding; observed September 30
Eastern Bluebird	<i>Sialia sialis</i>	S5B	G5	NAR	NAR				
Veery	<i>Catharus fuscescens</i>	S4B	G5			10-20			
Wood Thrush	<i>Hylocichla mustelina</i>	S4B	G5					X	
American Robin	<i>Turdus migratorius</i>	S5B	G5						
Gray Catbird	<i>Dumetella carolinensis</i>	S4B	G5						
Northern Mockingbird	<i>Mimus polyglottos</i>	S4	G5						Non-breeding; observed October 13
Brown Thrasher	<i>Toxostoma rufum</i>	S4B	G5					X	
European Starling	<i>Sturnus vulgaris</i>	SNA	G5						
Cedar Waxwing	<i>Bombycilla cedrorum</i>	S5B	G5						
Yellow Warbler	<i>Dendroica petechia</i>	S5B	G5						
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	S5B	G5						
American Redstart	<i>Setophaga ruticilla</i>	S5B	G5			20-30			
Ovenbird	<i>Seiurus aurocapilla</i>	S4B	G5			20			

COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
Common Yellowthroat	<i>Geothlypis trichas</i>	S5B	G5						
American Tree Sparrow	<i>Spizella arborea</i>	S4B	G5						Non-breeding; observed December 2
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	S4B	G5					X	
Chipping Sparrow	<i>Spizella passerina</i>	S5B	G5						
Field Sparrow	<i>Spizella pusilla</i>	S4B	G5					X	
Savannah Sparrow	<i>Passerculus sandwichensis</i>	S4B	G5					X	
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	S4B	G5					X	
Song Sparrow	<i>Melospiza melodia</i>	S5B	G5						
Swamp Sparrow	<i>Melospiza georgiana</i>	S5B	G5						
White-throated Sparrow	<i>Zonotrichia albicollis</i>	S5B	G5			20			Non-breeding; observed September 30
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	S4B	G5						Non-breeding; observed September 28
Dark-eyed Junco	<i>Junco hyemalis</i>	S5B	G5				7		Non-breeding; observed October 28
Snow Bunting	<i>Plectrophenax nivalis</i>	SNA	G5						Non-breeding; observed December 18
Scarlet Tanager	<i>Piranga olivacea</i>	S4B	G5			20			
Northern Cardinal	<i>Cardinalis cardinalis</i>	S5	G5						
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	S4B	G5					X	
Indigo Bunting	<i>Passerina cyanea</i>	S4B	G5						
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	G5	THR	THR-NS	10		X	
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	S5	G5						
Eastern Meadowlark	<i>Sturnella magna</i>	S4B	G5					X	
Common Grackle	<i>Quiscalus quiscula</i>	S5B	G5						
Brown-headed Cowbird	<i>Molothrus ater</i>	S4B	G5						
Baltimore Oriole	<i>Icterus galbula</i>	S4B	G5					X	
House Finch	<i>Carpodacus mexicanus</i>	SNA	G5						
American Goldfinch	<i>Carduelis tristis</i>	S5B	G5						
House Sparrow	<i>Passer domesticus</i>	SNA	G5						

MAMMALS

Eastern Cottontail	<i>Sylvilagus floridanus</i>	S5	G5						
Grey Squirrel	<i>Sciurus carolinensis</i>	S5	G5						
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	S5	G5						
Coyote	<i>Canis latrans</i>	S5	G5						
Raccoon	<i>Procyon lotor</i>	S5	G5						
Striped Skunk	<i>Mephitis mephitis</i>	S5	G5						
White-tailed Deer	<i>Odocoileus virginianus</i>	S5	G5						

SUMMARY

Total Butterflies:	5
Total Amphibians:	7
Total Reptiles:	2
Total Birds:	88



COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status	
								PIF Priority Species	Comment

Total Breeding Birds:		77							
Total Mammals:		7							

SIGNIFICANT SPECIES

Global:	0
National:	1
Provincial:	1
Local:	17

Explanation of Status and Acronyms

COSSARO: Committee on the Status of Species at Risk in Ontario

COSEWIC: Committee on the Status of Endangered Wildlife in Canada

REGION: Rare in a Site Region

S1: Critically Imperiled—Critically imperiled in the province (often 5 or fewer occurrences)

S2: Imperiled—Imperiled in the province, very few populations (often 20 or fewer),

S3: Vulnerable—Vulnerable in the province, relatively few populations (often 80 or fewer)

S4: Apparently Secure—Uncommon but not rare

S5: Secure—Common, widespread, and abundant in the province

SX: Presumed extirpated

SH: Possibly Extirpated (Historical)

SNR: Unranked

SU: Unrankable—Currently unrankable due to lack of information

SNA: Not applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

S#S#: Range Rank—A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species

S#B- Breeding status rank

S#N- Non Breeding status rank

?: Indicates uncertainty in the assigned rank

G1: Extremely rare globally; usually fewer than 5 occurrences in the overall range

G1G2: Extremely rare to very rare globally

G2: Very rare globally; usually between 5-10 occurrences in the overall range

G2G3: Very rare to uncommon globally

G3: Rare to uncommon globally; usually between 20-100 occurrences

G3G4: Rare to common globally

G4: Common globally; usually more than 100 occurrences in the overall range

G4G5: Common to very common globally

G5: Very common globally; demonstrably secure

T: Denotes that the rank applies to a subspecies or variety

END: Endangered

THR: Threatened

SC: Special Concern



COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
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2, 3 or NS after a COSEWIC ranking indicates the species is either on Schedule 2, Schedule 3 or No Schedule of the Species At Risk Act (SARA)

NAR: Not At Risk

IND: Indeterminant, insufficient information to assign status

DD: Data Deficient

6: Rare in Site Region 6

7: Rare in Site Region 7

Area: Minimum patch size for area-sensitive species (ha)

H- highly significant in Hamilton Region (i.e. rare)

m- moderately significant in Hamilton Region (i.e. uncommon)

L1- extremely rare locally (Toronto Region)

L2- very rare locally (Toronto Region)

L3- rare to uncommon locally (Toronto Region)

HR- rare in Halton Region, highly significant

HU- uncommon in Halton Region, moderately significant

* The Pileated Woodpecker will incorporate smaller woodlots into its homerange, therefore it may not be a true area-sensitive species (Naylor et al. 1996)

LATEST STATUS UPDATE

- Butterflies: September, 2009
- Amphibians: September, 2009
- Reptiles: September, 2009
- Birds: September, 2009
- Mammals: September, 2009
- S and G ranks and explanations: September, 2009

NOTE

All rankings for birds refer to breeding birds unless the ranking is followed by N

REFERENCES

COSSARO Status

Endangered Species Act, 2007 (Bill 184). Schedules 1- 5. June 30 2008.

COSEWIC Status

COSEWIC. 2007. Canadian Species at Risk. Committee on the Status of Endangered Wildlife in Canada. September 11, 2007 with updates from COSEWIC Assessments November 2007, April 2008

Local Status

- Dwyer, Jill K. 2003. Nature Counts Project Hamilton Natural Areas Inventory 2003. Species Checklists. Hamilton Naturalists Club.
- Halton Natural Areas Inventory 2006: Volume 2 Species Checklists (ISBN 0-9732488-7-4)
- Ontario Partners in Flight. 2006. Ontario Landbird Conservation Plan: Lower Great Lakes/St. Lawrence Plain (North American Bird Conservation Region 13), Priorities, Objectives and Recommended Actions. Environment Canada and Ontario Ministry of Natural Resources. Draft, February 2006.



COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status	
								PIF Priority	Species

Region of Waterloo. 1996. Regionally Significant Breeding Birds.
 TRCA. 2003. Revised Fauna Scores and Ranks, February 2003. Toronto Region Conservation Authority.

Area-sensitive information

Austen, M.J.W., M.D. Cadman, and R.D. James. 1994. Ontario birds at risk: status and conservation needs. Toronto and Port Rowan, ON: Federation of Ontario Naturalists and Long Point Bird Observatory. 165 pp.

Dunn, Erica H. and David J. Agro. 1995. Black Tern (*Chlidonias niger*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <http://bna.birds.cornell.edu/bna/species/147>

Herkert, J.R. 1991. An ecological study of the breeding birds of grassland habitats within Illinois. Ph.D. dissertation. University of Illinois, Urbana, IL. 112 pp.

Hejl, S.J., J.A. Holmes, and D.E. Kroodsmas. 2002. Winter Wren (*Troglodytes troglodytes*). In Poole, A., and F. Gill, eds. The birds of North America, No. 623. Philadelphia, PA: The Birds of North America, Inc. 31 pp.

Naylor, B. J., J. A. Baker, D. M. Hogg, J. G. McNicol and W. R. Watt. 1996. Forest Management Guidelines for the Provision of Pileated Woodpecker Habitat. Ontario Ministry of Natural Resources, Forest Management Branch, Sault Ste. Marie, Ontario. 26 pp.

Page, A.M., and M.D. Cadman. 1994. Status report on the Acadian Flycatcher *Empidonax vireescens* in Canada. Prepared for the Committee on the Status of Endangered Wildlife in Canada. 27 pp

Robbins, C.S. 1979. Effect of forest fragmentation on bird populations. Pp. 198-212 in DeGraaf, R.M., and K.E. Evans, eds. Management of northcentral and northeastern forests for nongame birds. United States Department of Agriculture, Forest Service General Technical Report NC-51. 268 pp.

Sandilands, A. 2005. Birds of Ontario. Habitat Requirements, Limiting Factors and Status. UBC Press.

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GRAND RENEWABLE ENERGY PARK

NATURAL HERITAGE ASSESSMENT AND ENVIRONMENTAL IMPACT STUDY

Appendix F2

Wildlife Species List - Solar Project

COMMON NAME	SCIENTIFIC NAME	GLOBAL STATUS		COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
		ONTARIO STATUS	STATUS						
AMPHIBIANS									
American Toad	<i>Anaxyrus americanus</i>	S5	G5						
Northern Green Frog	<i>Lithobates clamitans</i>	S5	G5						
Northern Leopard Frog	<i>Lithobates pipiens</i>	S5	G5	NAR	NAR				
REPTILES									
Eastern Gartersnake	<i>Thamnophis sirtalis</i>	S5	G5						
Eastern Milksnake	<i>Lampropeltis triangulum</i>	S3	G5	SC	SC			Dead on Wilson Road, 6cm long	
BIRDS									
Wood Duck	<i>Aix sponsa</i>	S5	G5						
Wild Turkey	<i>Meleagris gallopava</i>	S5	G5						
Turkey Vulture	<i>Cathartes aura</i>	S5B	G5						
Osprey	<i>Pandion haliaetus</i>	S5B	G5				7		
Northern Harrier	<i>Circus cyaneus</i>	S4B	G5	NAR	NAR	55		X	Non-breeding; observed September 30
Red-tailed Hawk	<i>Buteo jamaicensis</i>	S5	G5	NAR	NAR				
Killdeer	<i>Charadrius vociferus</i>	S5B, S5N	G5						
American Woodcock	<i>Scolopax minor</i>	S4B	G5						
Ring-billed Gull	<i>Larus delawarensis</i>	S5B, S4N	G5						
Rock Pigeon	<i>Columba livia</i>	SNA	G5						
Mourning Dove	<i>Zenaidura macroura</i>	S5	G5						
Great Horned Owl	<i>Bubo virginianus</i>	S5	G5						
Short-eared Owl	<i>Asio flammeus</i>	S2N, S4B	G5	SC	SC-3	75		X	Non-breeding; observed December 2-3
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	S5B	G5						
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	S4	G5						
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	S5B	G5			30-50			Non-breeding; observed September 30
Downy Woodpecker	<i>Picoides pubescens</i>	S5	G5						
Hairy Woodpecker	<i>Picoides villosus</i>	S5	G5			10			
Northern Flicker	<i>Colaptes auratus</i>	S4B	G5					X	
Pileated Woodpecker	<i>Dryocopus pileatus</i>	S5	G5			30-50*			
Eastern Wood-Pewee	<i>Contopus virens</i>	S4B	G5					X	
Alder Flycatcher	<i>Empidonax alnorum</i>	S5B	G5						
Willow Flycatcher	<i>Empidonax traillii</i>	S5B	G5					X	
Eastern Phoebe	<i>Sayornis phoebe</i>	S5B	G5						
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S4B	G5						
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S4B	G5					X	
Northern Shrike	<i>Lanius excubitor</i>	SNA	G5						
Warbling Vireo	<i>Vireo gilvus</i>	S5B	G5						
Red-eyed Vireo	<i>Vireo olivaceus</i>	S5B	G5						
Blue Jay	<i>Cyanocitta cristata</i>	S5	G5						
American Crow	<i>Corvus brachyrhynchos</i>	S5B	G5						
Horned Lark	<i>Eremophila alpestris</i>	S5B	G5						
Tree Swallow	<i>Tachycineta bicolor</i>	S4B	G5						

COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
Barn Swallow	<i>Hirundo rustica</i>	S4B	G5						
Black-capped Chickadee	<i>Poecile atricapillus</i>	S5	G5						
White-breasted Nuthatch	<i>Sitta carolinensis</i>	S5	G5			10			
House Wren	<i>Troglodytes aedon</i>	S5B	G5						
Golden-crowned Kinglet	<i>Regulus satrapa</i>	S5B	G5			0	7		Non-breeding; observed September 30
Ruby-crowned Kinglet	<i>Regulus calendula</i>	S4B	G5				6,7		Non-breeding; observed October 19
Eastern Bluebird	<i>Sialia sialis</i>	S5B	G5	NAR	NAR				
Veery	<i>Catharus fuscescens</i>	S4B	G5			10-20			
Wood Thrush	<i>Hylocichla mustelina</i>	S4B	G5					X	
American Robin	<i>Turdus migratorius</i>	S5B	G5						
Gray Catbird	<i>Dumetella carolinensis</i>	S4B	G5						
Northern Mockingbird	<i>Mimus polyglottos</i>	S4	G5						Non-breeding; observed October 13
European Starling	<i>Sturnus vulgaris</i>	SNA	G5						
Cedar Waxwing	<i>Bombycilla cedrorum</i>	S5B	G5						
Northern Parula	<i>Parula americana</i>	S4B	G5			100	6,7		Non-breeding; observed September 24
Yellow Warbler	<i>Dendroica petechia</i>	S5B	G5						
Ovenbird	<i>Seiurus aurocapilla</i>	S4B	G5			20			
Common Yellowthroat	<i>Geothlypis trichas</i>	S5B	G5						
Chipping Sparrow	<i>Spizella passerina</i>	S5B	G5						
Field Sparrow	<i>Spizella pusilla</i>	S4B	G5					X	
Vesper Sparrow	<i>Poocetes gramineus</i>	S4B	G5					X	
Savannah Sparrow	<i>Passerculus sandwichensis</i>	S4B	G5					X	
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	S4B	G5					X	
Song Sparrow	<i>Melospiza melodia</i>	S5B	G5						
White-throated Sparrow	<i>Zonotrichia albicollis</i>	S5B	G5			20			Non-breeding; observed September 30
Scarlet Tanager	<i>Piranga olivacea</i>	S4B	G5			20			
Northern Cardinal	<i>Cardinalis cardinalis</i>	S5	G5						
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	S4B	G5					X	
Indigo Bunting	<i>Passerina cyanea</i>	S4B	G5						
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	G5	THR	THR-NS	10		X	
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	S5	G5						
Eastern Meadowlark	<i>Sturnella magna</i>	S4B	G5					X	
Common Grackle	<i>Quiscalus quiscula</i>	S5B	G5						
Brown-headed Cowbird	<i>Molothrus ater</i>	S4B	G5						
Baltimore Oriole	<i>Icterus galbula</i>	S4B	G5					X	
American Goldfinch	<i>Carduelis tristis</i>	S5B	G5						
MAMMALS									
Star-nosed Mole	<i>Condylura cristata</i>	S5	G5						
Eastern Cottontail	<i>Sylvilagus floridanus</i>	S5	G5						
Grey Squirrel	<i>Sciurus carolinensis</i>	S5	G5						
Muskrat	<i>Ondatra zibethicus</i>	S5	G5						
Raccoon	<i>Procyon lotor</i>	S5	G5						
White-tailed Deer	<i>Odocoileus virginianus</i>	S5	G5						

COMMON NAME	SCIENTIFIC NAME	GLOBAL		COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
		ONTARIO STATUS	STATUS						
SUMMARY									
Total Butterflies:									
Total Amphibians:									
Total Reptiles:									
Total Birds:		1							
Total Breeding Birds:									
Total Mammals:									
SIGNIFICANT SPECIES									
Global:									
National:									
Provincial:									
Regional:									
Local:									
Explanation of Status and Acronymns									
COSSARO: Committee on the Status of Species at Risk in Ontario									
COSEWIC: Committee on the Status of Endangered Wildlife in Canada									
REGION: Rare in a Site Region									
S1: Critically Imperiled—Critically imperiled in the province (often 5 or fewer occurrences)									
S2: Imperiled—Imperiled in the province, very few populations (often 20 or fewer),									
S3: Vulnerable—Vulnerable in the province, relatively few populations (often 80 or fewer)									
S4: Apparently Secure—Uncommon but not rare									
S5: Secure—Common, widespread, and abundant in the province									
SX: Presumed extirpated									
SH: Possibly Extirpated (Historical)									
SNR: Unranked									
SU: Unrankable—Currently unrankable due to lack of information									
SNA: Not applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities.									
S#S#: Range Rank—A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species									
S#B- Breeding status rank									
S#N- Non Breeding status rank									
?: Indicates uncertainty in the assigned rank									
G1: Extremely rare globally; usually fewer than 5 occurrences in the overall range									
G1G2: Extremely rare to very rare globally									
G2: Very rare globally; usually between 5-10 occurrences in the overall range									
G2G3: Very rare to uncommon globally									
G3: Rare to uncommon globally; usually between 20-100 occurrences									
G3G4: Rare to common globally									
G4: Common globally; usually more than 100 occurrences in the overall range									

COMMON NAME	SCIENTIFIC NAME	GLOBAL STATUS	ONTARIO STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
G4G5: Common to very common globally									
G5: Very common globally; demonstrably secure									
T: Denotes that the rank applies to a subspecies or variety									
END: Endangered									
THR: Threatened									
SC: Special Concern									
2, 3 or NS after a COSEWIC ranking indicates the species is either on Schedule 2, Schedule 3 or No Schedule of the Species At Risk Act (SARA)									
NAR: Not At Risk									
IND: Indeterminant, insufficient information to assign status									
DD: Data Deficient									
6: Rare in Site Region 6									
7: Rare in Site Region 7									
Area: Minimum patch size for area-sensitive species (ha)									
H- highly significant in Hamilton Region (i.e. rare)									
m- moderately significant in Hamilton Region (i.e. uncommon)									
L1- extremely rare locally (Toronto Region)									
L2- very rare locally (Toronto Region)									
L3- rare to uncommon locally (Toronto Region)									
HR- rare in Halton Region, highly significant									
HU- uncommon in Halton Region, moderately significant									
* The Pileated Woodpecker will incorporate smaller woodlots into its homerange, therefore it may not be a true area-sensitive species (Naylor et al. 1996)									
LATEST STATUS UPDATE									
Butterflies: September, 2009									
Amphibians: September, 2009									
Reptiles: September, 2009									
Birds: September, 2009									
Mammals: September, 2009									
S and G ranks and explanations: September, 2009									
NOTE									
All rankings for birds refer to breeding birds unless the ranking is followed by N									
REFERENCES									
COSSARO Status									
Endangered Species Act, 2007 (Bill 184). Schedules 1- 5. June 30 2008.									
COSEWIC Status									
COSEWIC. 2007. Canadian Species at Risk. Committee on the Status of Endangered Wildlife in Canada. September 11, 2007 with updates from COSEWIC Assessments November 2007, April 2008									
Local Status									

COMMON NAME	SCIENTIFIC NAME	GLOBAL ONTARIO STATUS STATUS	COSSARO	COSEWIC	AREA (ha)	REGION	Local Status PIF Priority Species	Comment
Dwyer, Jill K. 2003. Nature Counts Project Hamilton Natural Areas Inventory 2003. Species Checklists. Hamilton Naturalists Club.								
Halton Natural Areas Inventory 2006: Volume 2 Species Checklists (ISBN 0-9732488-7-4)								
Ontario Partners in Flight. 2006. Ontario Landbird Conservation Plan: Lower Great Lakes/St. Lawrence Plain (North American Bird Conservation Region 13), Priorities, Objectives and Recommended Actions. Environment Canada and Ontario Ministry of Natural Resources. Draft, February 2006.								
Region of Waterloo. 1996. Regionally Significant Breeding Birds.								
TRCA. 2003. Revised Fauna Scores and Ranks, February 2003. Toronto Region Conservation Authority.								
Area-sensitive information								
Austen, M.J.W., M.D. Cadman, and R.D. James. 1994. Ontario birds at risk: status and conservation needs. Toronto and Port Rowan, ON: Federation of Ontario Naturalists and Long Point Bird Observatory. 165 pp.								
Dunn, Erica H. and David J. Agro. 1995. Black Tern (<i>Chlidonias niger</i>), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: http://bna.birds.cornell.edu/bna/species/147								
Herkert, J.R. 1991. An ecological study of the breeding birds of grassland habitats within Illinois. Ph.D. dissertation. University of Illinois, Urbana, IL. 112 pp.								
Hejl, S.J., J.A. Holmes, and D.E. Kroodsmma. 2002. Winter Wren (<i>Troglodytes troglodytes</i>). In Poole, A., and F. Gill, eds. The birds of North America, No. 623. Philadelphia, PA: The Birds of North America, Inc. 31 pp.								
Naylor, B. J., J. A. Baker, D. M. Hogg, J. G. McNicol and W. R. Watt. 1996. Forest Management Guidelines for the Provision of Pileated Woodpecker Habitat. Ontario Ministry of Natural Resources, Forest Management Branch, Sault Ste. Marie, Ontario. 26 pp.								
Page, A.M., and M.D. Cadman. 1994. Status report on the Acadian Flycatcher <i>Empidonax virescens</i> in Canada. Prepared for the Committee on the Status of Endangered Wildlife in Canada. 27 pp								
Robbins, C.S. 1979. Effect of forest fragmentation on bird populations. Pp. 198-212 in DeGraaf, R.M., and K.E. Evans, eds. Management of northcentral and northeastern forests for nongame birds. United States Department of Agriculture, Forest Service General Technical Report NC-51. 268 pp.								
Sandilands, A. 2005. Birds of Ontario. Habitat Requirements, Limiting Factors and Status. UBC Press.								