

Stantec

GRAND RENEWABLE ENERGY PARK

NATURAL HERITAGE ASSESSMENT AND ENVIRONMENTAL IMPACT STUDY

Appendix F

Wildlife Species List

Stantec

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 |
|--------------------|------------------------|-----------------------|----------------------|----------------|----------------|------------------|---------------|--|----------------|
|--------------------|------------------------|-----------------------|----------------------|----------------|----------------|------------------|---------------|--|----------------|

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>Pooecetes 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. | | | | | | | | | |