

Appendix E

Bird Species List by Watershed

¹**G-Rank (global)**

Global ranks are assigned by a consensus of the network of Conservation Data Centres (CDCs), scientific experts, and the Nature Conservancy to designate a rarity rank based on the range-wide status of a species, subspecies, or variety.

- G1 Extremely rare - usually 5 or fewer occurrences in the overall range or very few remaining individuals; or because of some factor(s) making it especially vulnerable to extinction.
- G2 Very rare - usually between 5 and 20 occurrences in the overall range or with many individuals in fewer occurrences; or because of some factor(s) making it vulnerable to extinction.
- G3 Rare to uncommon - usually between 20 and 100 occurrences; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.
- G4 Common - usually more than 100 occurrences; usually not susceptible to immediate threats.
- G5 Very common - demonstrably secure under present conditions.

²**S-Ranks (provincial)**

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- S3 Vulnerable - Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
- S4 Apparently Secure - Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- S5 Secure - Common, widespread, and abundant in the nation or state/province.
- 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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).
- SNA Non-breeding accidental.
- SE Exotic - not believed to be a native component of Ontario's fauna.
- SZN Non-breeding migrants/vagrants.
- SZB Breeding migrants/vagrants.

³**COSEWIC (Committee on the Status of Endangered Wildlife in Canada)**

(federal status from COSEWIC November 2007)

- EXT Extinct - A species that no longer exists.
- EXP Extirpated - A species no longer existing in the wild in Canada, but occurring elsewhere.
- END Endangered - A species facing imminent extirpation or extinction.
- THR Threatened - A species likely to become endangered if limiting factors are not reversed.
- SC Special Concern (formerly vulnerable) - A species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats.
- NAR Not At Risk - A species that has been evaluated and found to be not at risk of extinction given the current circumstances.
- DD Data Deficient (formerly Indeterminate) - Available information is insufficient to resolve a species' eligibility for assessment or to permit an assessment of the species' risk of extinction.
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⁵**Regional Status – Durham Region**

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

⁶**Toronto and Region Conservation Authority ranks (from TRCA, April 2004)**

L-rank (Local Rank)-A rank assigned by TRCA to a species, vegetation community, or habitat patch which describes its status in the TRCA Region.

Species of conservation concern, according to the TRCA methodology are any species with a local rank of L1 to L3, and those L4 species found within the Urban (built-up area).

Generally species which are disappearing in the regional landscape, primarily as a result of land use changes. L1 – regional concern; L2 – regional concern; L3 – regional concern; L4 – urban concern

⁷Area Sensitivity is defined as species requiring large areas of suitable habitat in order to sustain population numbers.

From: Ministry of Natural Resources. 2000. Significant Wildlife Habitat Technical Guide. Fish and Wildlife Branch, Wildlife Section. Science Development and Transfer Branch, Southcentral Science Section. 151pp. + appendices.

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Harmony Creek Watershed - Bird Species

Common Name	Scientific Name	GRANK ¹	SRANK ²	COSEWIC ³	MNR ⁴	Durham Region (1993)	MNR Area Sensitive ⁷	Abundance	No. of Stations	CHAR-1	CHAR-2	CHAR-3	CHAR-5
Species Richness										15	8	15	10
American Crow	<i>Corvus brachyrhynchos</i>	G5	S5B,SZN					3	2	2		1	
American Goldfinch	<i>Carduelis tristis</i>	G5	S5B,SZN					6	2	4		2	
American Redstart	<i>Setophaga ruticilla</i>	G5	S5B,SZN				X	1	1			1	
American Robin	<i>Turdus migratorius</i>	G5	S5B,SZN					7	3	3		2	2
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	G5	S4B,SZN					1	1	1			
Black-capped Chickadee	<i>Parus atricapillus</i>	G5	S5					8	3		4	2	2
Blue Jay	<i>Cyanocitta cristata</i>	G5	S5					1	1				1
Cedar Waxwing	<i>Bombycilla cedrorum</i>	G5	S5B,SZN					5	2	3			2
Common Yellowthroat	<i>Geothlypis trichas</i>	G5	S5B,SZN					1	1	1			
Downy Woodpecker	<i>Picoides pubescens</i>	G5	S5					3	1		3		
Eastern Wood-Pewee	<i>Contopus virens</i>	G5	S5B,SZN					4	3	1	2		1
European Starling	<i>Sturnus vulgaris</i>	G5	SE					6	1			6	
Gray Catbird	<i>Dumetella carolinensis</i>	G5	S5B,SZN					4	2	2		2	
House Wren	<i>Troglodytes aedon</i>	G5	S5B,SZN					2	2	1		1	
Indigo Bunting	<i>Passerina cyanea</i>	G5	S5B,SZN					2	2		1	1	
Mourning Dove	<i>Zenaidura macroura</i>	G5	S5B,SZN					1	1			1	
Northern Cardinal	<i>Cardinalis cardinalis</i>	G5	S5					2	2			1	1
Northern Flicker	<i>Colaptes auratus</i>	G5	S5B,SZN					3	3	1	1		1
Red-eyed Vireo	<i>Vireo olivaceus</i>	G5	S5B,SZN					4	3	2	1		1
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	G5	S5B,SZN					1	1	1			
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	G5	S5B,SZN					2	2	1		1	
Swamp Sparrow	<i>Melospiza melodia</i>	G5	S5B,SZN					6	4	2	1	2	1
Willow Flycatcher	<i>Empidonax traillii</i>	G5	S5B,SZN					1	1			1	
	Total No. of Species	23					1			14	7	14	9

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Harmony Creek (East)- Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	C6LE-1	C6LE-2	CHAR-1	CHAR-3	CHAR-5	TLAN-3	TLAN-4	TTOW-1
Species Richness									9	16	18	23	7	6	8	22
American Crow	Corvus brachyrhynchos						9	4	1	2	1			1	1	6
American Goldfinch	Carduelis tristis						4	3	2	4	3				1	1
American Redstart	Setophaga ruticilla					A	5	2	2	1	1					3
American Robin	Turdus migratorius						4	3	1		3	3	2		1	2
Black-capped Chickadee	Parus atricapillus						2	2		1		2	2		1	
Blue Jay	Cyanocitta cristata						3	2	1	2	2	1	1			
Brown-headed Cowbird	Molothrus ater						1	1			2	2		1		
Chipping Sparrow	Spizella passerina						3	3	1						1	1
Common Grackle	Quiscalus quiscula						5	1								5
Common Yellowthroat	Geothlypis trichas						1	1			1	1				1
Downy Woodpecker	Picoides pubescens						1	1		1						
Eastern Wood-Pewee	Contopus virens						3	3	1	1	1	1	1		1	
European Starling	Sturnus vulgaris			SE			7	3	2			6		1		4
Gray Catbird	Dumetella carolinensis						1	1			2	2				1
Great Crested Flycatcher	Myiarchus crinitus						2	2						1		1
House Sparrow	Passer domesticus			SE			1	1								1
House Wren	Troglodytes aedon						1	1			1	1			1	
Indigo Bunting	Passerina cyanea						6	3	2	3	1	1		1		
Mourning Dove	Zenaida macroura						4	2		3		1				1
Mourning Warbler	Oporornis philadelphia						1	1		1	1					
Northern Cardinal	Cardinalis cardinalis						1	1			1	1	1			1
Red-eyed Vireo	Vireo olivaceus						9	5	3	2	2	1	1	1	2	1
Red-winged Blackbird	Agelaius phoeniceus						2	2	1		1					1
Rose-breasted Grosbeak	Pheucticus ludovicianus						2	2		1	1	1				1
Savannah Sparrow	Passerculus sandwichensis						1	1				2				1
Scarlet Tanager	Piranga olivacea					A	2	1		2						
Song Sparrow	Melospiza melodia						6	3	2	1	2	3	1			4
Tree Swallow	Tachycineta bicolor						1	1				1				1
Veery	Catharus fuscescens					A	2	2		1		2				1
Warbling Vireo	Vireo gilvus						2	1				1				2
Wood Thrush	Hylocichla mustelina						1	1		1						
Yellow Warbler	Dendroica petechia						1	1			1	1				1
Total No. of Calling Pairs									14	25	29	39	9	6	9	41

Legend

1COSEWIC (Committee on the Status of Endangered Wildlife in Canada)

(federal status from COSEWIC September 2007)

EXT Extinct—A species that no longer exists.

EXP Extirpated—A species no longer existing in the wild in Canada, but occurring elsewhere in the wild.

END Endangered—A species facing imminent extirpation or extinction throughout its range.

THR Threatened—A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

SC Special Concern—A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species

IND Indeterminate—A species for which there is insufficient information to support a status designation.

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SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

3 Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

4Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G).

151 p plus appendices.

Farewell Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial)	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	C6EN-1	C6LA-1	C6LA-2	C6VA-1	NCOU-3	PCOU-1	PCOU-2	PCOU-4	TTRU-4	TWAS-4
Species Richness									5	10	17	15	35	14	39	25	31	31
Alder Flycatcher	Empidonax alnorum						4	3					2		1	1		
American Crow	Corvus brachyrhynchos						12	7		2	3			1		3	1	1
American Goldfinch	Carduelis tristis						21	9		4	3	2	1	1	3	3	3	1
American Redstart	Setophaga ruticilla					A	6	4					2		1	2		1
American Robin	Turdus migratorius						21	8		1	3		3	2	3	4	2	3
Baltimore Oriole	Icterus galbula						6	5				1	1		1	1	2	
Belted Kingfisher	Ceryle alcyon						1	1										1
Black-and-white Warbler	Mniotilta varia				A		6	3					2		2			2
Black-billed Cuckoo	Coccyzus erythrophthalmus						1	1				1						
Black-capped Chickadee	Parus atricapillus						10	5					2	1	5	1		1
Black-throated Green Warbler	Dendroica virens				A		2	2							1			1
Blue Jay	Cyanocitta cristata						10	6					3	1	2	1		2
Bobolink	Dolichonyx oryzivorus						3	2			1	2						
Brown-headed Cowbird	Molothrus ater						7	4			2			1			3	1
Canada Goose	Branta canadensis						5	3	1				2				2	
Cedar Waxwing	Bombycilla cedrorum						1	1	1									
Chipping Sparrow	Spizella passerina						2	2							1			1
Common Grackle	Quiscalus quiscula						11	4					1		1		6	3
Common Yellowthroat	Geothlypis trichas						12	5					2		3	3	3	1
Downy Woodpecker	Picoides pubescens						7	5	1		1	1			1			3
Eastern Bluebird	Sialia sialis						1	1										1
Eastern Kingbird	Tyrannus tyrannus						4	4					1		1	1	1	
Eastern Meadowlark	Sturnella magna						1	1			1							
Eastern Phoebe	Sayornis phoebe						1	1		1								
Eastern Screech Owl	Otus asio						2	1		2								
Eastern Towhee	Pipilo erythrophthalmus						2	2					1		1			
Eastern Wood-Pewee	Contopus virens						10	6			2	1		1	2	3	1	
European Starling	Sturnus vulgaris			SE			5	4			2					1	1	1
Gray Catbird	Dumetella carolinensis						5	4					2		1	1	1	
Great Blue Heron	Ardea herodias						1	1							1			
Great Crested Flycatcher	Myiarchus crinitus						14	9		1	3	1	1	1	2	2	2	1
Hairy Woodpecker	Picoides villosus				A		2	2					1				1	
House Wren	Troglodytes aedon						13	8	1		1	4	2	1	2		1	1
Indigo Bunting	Passerina cyanea						9	7	1	1			1		2	2	1	1
Killdeer	Charadrius vociferus						2	2					1				1	
Least Flycatcher	Empidonax minimus				A		7	4			3	1			1		2	
Magnolia Warbler	Dendroica magnolia			X	A		1	1								1		
Mallard	Anas platyrhynchos						1	1										1
Mourning Dove	Zenaidura macroura						4	2									1	3
Mourning Warbler	Oporornis philadelphia						8	4						1	3		1	3
Nashville Warbler	Vermivora ruficapilla						3	3					1	1	1			
Northern Cardinal	Cardinalis cardinalis						9	7		1	1	1	1	1	2	1		2
Northern Flicker	Colaptes auratus						2	2					1					1
Northern Waterthrush	Seiurus noveboracensis						7	3					4		2		1	
Ovenbird	Seiurus aurocapillus				A		9	4					6	1	1			1
Pileated Woodpecker	Dryocopus pileatus				A		1	1					1					
Red-eyed Vireo	Vireo olivaceus						21	8		1			2	3	1	4	3	4
Red-tailed Hawk	Buteo jamaicensis						3	3							1	1		1
Red-winged Blackbird	Agelaius phoeniceus						29	5			11		5		1	3	9	
Rose-breasted Grosbeak	Pheucticus ludovicianus						5	3						1	2	2		
Ruffed Grouse	Bonasa umbellus						1	1								1		
Savannah Sparrow	Passerculus sandwichensis						2	1										2
Scarlet Tanager	Piranga olivacea				A		1	1										1
Song Sparrow	Melospiza melodia						38	10	1	1	6	6	1	1	7	5	6	4
Swamp Sparrow	Melospiza georgiana						4	3			2		1		1			
Veery	Catharus fuscescens				A		8	2					7		1			
Virginia Rail	Rallus limicola						1	1										1
Warbling Vireo	Vireo gilvus						3	2							2	1		
White-breasted Nuthatch	Sitta carolinensis				A		2	2		1								1
Willow Flycatcher	Empidonax traillii						8	4			4	2			1		1	
Wood Duck	Aix sponsa						6	1										6
Wood Thrush	Hylocichla mustelina						5	4					1	1	2			1
Yellow Warbler	Dendroica petechia						12	6			2				1	1	3	3
Total No. of Calling Pairs									5	15	49	28	68	15	72	45	72	52

Legend

1COSEWIC (Committee on the Status of Endangered Wildlife in Canada)
(federal status from COSEWIC September 2007)

EXT Extinct—A species that no longer exists.

EXP Extirpated—A species no longer existing in the wild in Canada, but occurring elsewhere in the wild.

END Endangered—A species facing imminent extirpation or extinction throughout its range.

THR Threatened—A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

SC Special Concern—A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.

IND Indeterminate—A species for which there is insufficient information to support a status designation.

NAR Not At Risk—A species that has been evaluated and found to be not at risk.

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S1 Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.

S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.

S3 Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.

S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 Secure—Common, widespread, and abundant in the nation or state/province.

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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

3 Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

4Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G).

151 p plus appendices.

Black Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	BHAN-11	BHAN-12	NCOU-1	NCOU-2	NCOU-7	NHOL-11	NHOL-4	NHOL-6	NHOL-9	NRUN-11	NRUN-13	NRUN-15	NRUN-5	NRUN-6	NRUN-8	NRUN-9	NSOL-2	NSOL-4	PHOL-1	PHOL-3	PHOL-5	PMG-1	PRUN-2	PRUN-6	PRUN-9	PSOL-1	PSOL-5	TOS-1	TRUN-1	TSOL-1	TSOL-2	TSOL-3				
Species Richness									20	17	32	16	5	13	19	14	4	8	21	14	15	19	4	6	36	35	18	3	10	3	30	24	22	15	10	10	21	21	11	14				
Alder Flycatcher	<i>Empidonax alnorum</i>						23	11	2	1				1					4			1			4	3	1			3	1	2	3											
American Crow	<i>Corvus brachyrhynchos</i>						47	15	1		1	1		1	5						3				11	9	1			1	3		2				2		5	1				
American Goldfinch	<i>Cardeulis tristis</i>						67	21	2	10	3	2	2		2	1		1	3	1		6			11	3		1			1	2	8	2	2	2	2							
American Redstart	<i>Setophaga ruticilla</i>				A		13	7						1						1					1					3	2	1					4	2	2	2				
American Robin	<i>Turdus migratorius</i>						55	27	4	3	3	4	1	1		3	1	2	1	1		2	1		3	1	1	1	1	1	3		1		4	2	2	2	4	3	1			
American Woodcock	<i>Scolopax minor</i>						3	1																																				
Baltimore Oriole	<i>Icterus galbula</i>						23	17		1	1	1				1	1	1	3		2	1		1	1	1	1		1	4						1	1							
Barn Swallow	<i>Hirundo rustica</i>						11	4												5					3					2				1										
Black-and-white Warbler	<i>Mniotilta varia</i>				A		14	8			3	1		1						1	1				1	5	1																	
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>						1	1																																1				
Blackburnian Warbler	<i>Dendroica fusca</i>				X	A	2	2																		1											1							
Black-capped Chickadee	<i>Parus atricapillus</i>						46	19	3	2	2	3		1	4	2			1	1		3	1		7	4	1							2	3	1	3			2				
Black-throated Green Warbler	<i>Dendroica virens</i>				A		3	3												1					1				1															
Blue Jay	<i>Cyanocitta cristata</i>						43	16	4		6			1	2						2	3			10	7	1	1		1	1		1	1					1		1			
Bobolink	<i>Dolichonyx oryzivorus</i>						1	1																																				
Brown-headed Cowbird	<i>Molothrus ater</i>						28	15		5	1	1				1						2	1		3	2			1	2		1	1						3	3	1			
Canada Goose	<i>Branta canadensis</i>						1	1											1																									
Cedar Waxwing	<i>Bombycilla cedrorum</i>						17	10	2					1	1			3			1	4			1	2			1															
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>						5	3			1				2															2														
Chipping Sparrow	<i>Spizella passerina</i>						8	5									1	1							2															2				
Common Grackle	<i>Quiscalus quiscula</i>						16	11	1		1								1					1	1			1	3										2	3	1			
Common Yellowthroat	<i>Geothlypis trichas</i>						48	18	1	3	1							1	5	2	1	1		2	6	6				2	4	1	5	1			1	5						
Cooper's Hawk	<i>Accipiter cooperi</i>				X	A	1	1			1																																	
Downy Woodpecker	<i>Picoides pubescens</i>						8	7	1	2	1										1				1	1																1		
Eastern Kingbird	<i>Tyrannus tyrannus</i>						7	4											3						2						1													
Eastern Meadowlark	<i>Sturnella magna</i>						2	2	1																1																			
Eastern Phoebe	<i>Sayornis phoebe</i>						1	1																																				
Eastern Wood-Pewee	<i>Contopus virens</i>						21	9	1		7				3										1	1				4						2	1			1				
European Starling	<i>Sturnus vulgaris</i>			SE			9	5	1	3	1																				2													
Field Sparrow	<i>Spizella pusilla</i>						2	1																	2																			
Gray Catbird	<i>Dumetella carolinensis</i>						9	8	1		1							1				1			1																			
Great Blue Heron	<i>Ardea herodias</i>						1	1																																				
Great Crested Flycatcher	<i>Myiarchus crinitus</i>						25	12	1		1	1			2	1				2		3			2	7			1															
Green Heron	<i>Butorides striatus</i>						1	1																																				
Hairy Woodpecker	<i>Picoides villosus</i>				A		4	3							2															1	1													
House Finch	<i>Carpodacus mexicanus</i>			SE			2	1																																				
House Wren	<i>Troglodytes aedon</i>						9	7			1				1	1				2						1																		
Indigo Bunting	<i>Passerina cyanea</i>						25	14			2	2			1			1				1			3	5	1				1													
Killdeer	<i>Charadrius vociferus</i>						4	4		1	1									1					1																			
Least Flycatcher	<i>Empidonax minimus</i>				A		2	2																1						1														
Magnolia Warbler	<i>Dendroica magnolia</i>				X	A	2	2																			1			1														
Mallard	<i>Anas platyrhynchos</i>						2	2																					1															
Mourning Dove	<i>Zenaida macroura</i>						15	13		1	1			1	1							2			1		1			1	2	1	1											
Mourning Warbler	<i>Oporornis philadelphia</i>						7	6	1		1	2																		1														
Nashville Warbler	<i>Vermivora ruficapilla</i>						4	3																																				

Black Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	BHAN-11	BHAN-12	NCOU-1	NCOU-2	NCOU-7	NHOL-11	NHOL-4	NHOL-6	NHOL-9	NRUN-11	NRUN-13	NRUN-15	NRUN-5	NRUN-6	NRUN-8	NRUN-9	NSOL-2	NSOL-4	PHOL-1	PHOL-3	PHOL-5	PMG-1	PRUN-2	PRUN-6	PRUN-9	PSOL-1	PSOL-5	TOS-1	TRUN-1	TSOL-1	TSOL-2	TSOL-3			
Ruby-throated Hummingbird	Archilochus colubris						1	1			1																																
Ruffed Grouse	Bonasa umbellus						3	3												1					1	1																	
Savannah Sparrow	Passerculus sandwichensis						5	3									1								3																	1	
Scarlet Tanager	Piranga olivacea				A		1	1			1																																
Song Sparrow	Melospiza melodia						80	23	3	3	4	3	1	1		1				5	2		1			13	6	1		3		2	5	2	3	5	3		6	4	3		
Spotted Sandpiper	Actitis macularia						1	1											1																								
Swamp Sparrow	Melospiza georgiana						16	7												3	1										3	4	3				1						
Tree Swallow	Tachycineta bicolor						4	3												1					2																1		
Turkey Vulture	Cathartes aura						2	1																2																			
Veery	Catharus fuscescens				A		19	10			1	1		2					1	1						6	2			3		1					1						
Warbling Vireo	Vireo gilvus						8	6								1							2							1	2				1			1					
White-breasted Nuthatch	Sitta carolinensis				A		1	1																		1																	
White-throated Sparrow	Zonotrichia albicollis						4	4													1	1					1			1													
Willow Flycatcher	Empidonax traillii						3	2																	1						2												
Wood Duck	Aix sponsa						4	1																																			
Wood Thrush	Hylocichla mustelina						7	5			1															1	1			2		2											
Yellow Warbler	Dendroica petechia						22	15	2	2	1		1		1				2	1					1	1			1		4	2	1			1	1						
Yellow-billed Cuckoo	Coccyzus americanus				X		3	3		1												1			1																		
Yellow-rumped Warbler	Dendroica coronata				A		1	1											1																								
Yellow-throated Vireo	Vireo flavifrons				X	A	5	2						2													3																
Total No. of Calling Pairs									37	43	69	28	6	16	40	18	4	11	54	17	27	38	4	12	111	100	26	3	12	3	54	64	33	40	20	22	36	44	27	19			

Legend

1COSEWIC (Committee on the Status of Endangered Wildlife in Canada)
(federal status from COSEWIC September 2007)

EX1 Extinct—A species that no longer exists.

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3 Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

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151 p plus appendices.

Bowmanville Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. of Stations	C6E-1	C6E-2	C6R57-1	C6R57-2	C6R57-3	C6R57-4	C6R57-5	C6R57-6	C6R57-7	C7R57-3	TCED-1	TMID-1	TOS-2	TOS-3	TR57-1	TR57-2	
Species Richness									21	7	20	7	3	6	10	35	22	25	19	14	20				
Alder Flycatcher	Empidonax alnorum						2	2											1	1					
American Crow	Corvus brachyrhynchos						22	8	1		6						1	2	9	1			1	1	
American Goldfinch	Carduelis tristis						15	9	2		2		1				1	1	4	1	1			2	
American Redstart	Setophaga ruticilla					A	3	2	1															2	
American Robin	Turdus migratorius						32	10	3		9			1	3	1	8	3	1	1	1		1	2	
Baltimore Oriole	Icterus galbula						4	4	1								1				1				
Barn Swallow	Hirundo rustica						1	1														1			
Belted Kingfisher	Ceryle alcyon						1	1											1						
Black-and-white Warbler	Mniotilta varia					A	10	5	1										1	3	4			1	
Blackburnian Warbler	Dendroica fusca				X	A	1	1														1			
Black-capped Chickadee	Parus atricapillus						26	9	4		7						2	4	2	1	3	1	2		
Black-throated Green Warbler	Dendroica virens					A	11	6	1	2							1	3	2	2					
Blue Jay	Cyanocitta cristata						26	9	3	1	6	3						2	8	1	1			1	
Bobolink	Dolichonyx oryzivorus						1	1													1				
Brown-headed Cowbird	Molothrus ater						4	4							1	1	1	1	1						
Cedar Waxwing	Bombycilla cedrorum						1	1							1							1			
Chestnut-sided Warbler	Dendroica pensylvanica						2	2													1	1			
Chipping Sparrow	Spizella passerina						7	5	2	1	2									1				1	
Common Grackle	Quiscalus quiscula						1	1											1						
Common Yellowthroat	Geothlypis trichas						17	7			1								5	4	1	4	1	1	
Downy Woodpecker	Picoides pubescens						1	1														1			
Eastern Kingbird	Tyrannus tyrannus						4	3											1		2		1		
Eastern Meadowlark	Sturnella magna						1	1															1		
Eastern Phoebe	Sayornis phoebe						1	1			1														
Eastern Wood-Pewee	Contopus virens						4	4	1		1								1					1	
European Starling	Sturnus vulgaris			SE			2	2											1				1		
Gray Catbird	Dumetella carolinensis						1	1											1						
Great Crested Flycatcher	Myiarchus crinitus						12	6	2	3	4	1							1		1				
Hairy Woodpecker	Picoides villosus					A	5	4	1		1										1			2	
House Wren	Troglodytes aedon						8	4						1	1					4		2			
Indigo Bunting	Passerina cyanea						13	7			1			1					2	3	1	2		3	
Mourning Dove	Zenaidura macroura						3	3	1	1										1					
Mourning Warbler	Oporornis philadelphia						7	5				1							2		2		1	1	
Nashville Warbler	Vermivora ruficapilla						1	1											1						
Northern Cardinal	Cardinalis cardinalis						12	7			2	1		1					2	3	2			1	
Northern Flicker	Colaptes auratus						6	4			1								3		1	1			
Northern Waterthrush	Seiurus noveboracensis						7	5	1										1	3	1			1	
Ovenbird	Seiurus aurocapillus					A	16	6	2	1	8								2	1				2	
Pileated Woodpecker	Dryocopus pileatus					A	1	1		1															
Pine Warbler	Dendroica pinus						2	2											1			1			
Red-breasted Nuthatch	Sitta canadensis					A	5	5	1		1								1			1		1	
Red-eyed Vireo	Vireo olivaceus						22	8	2		6	2	1						2		1	4		4	
Red-tailed Hawk	Buteo jamaicensis						1	1														1			
Red-winged Blackbird	Agelaius phoeniceus						11	8	2		1	1							1	1	1	2		2	
Rose-breasted Grosbeak	Pheucticus ludovicianus						2	2							1				1						
Ruffed Grouse	Bonasa umbellus						1	1			1														
Savannah Sparrow	Passerculus sandwichensis						1	1																1	
Song Sparrow	Melospiza melodia						22	9	2		4			1	3	3	3	3	2			2	2	2	
Veery	Catharus fuscescens					A	10	7	1		3							2	1	1	1			1	
Warbling Vireo	Vireo gilvus						1	1																1	
White-breasted Nuthatch	Sitta carolinensis					A	1	1													1				
Willow Flycatcher	Empidonax traillii						2	1												2					
Wood Duck	Aix sponsa						1	1											1						
Wood Thrush	Hylocichla mustelina						6	4										1	1	3		1			
Yellow Warbler	Dendroica petechia						3	3														1	1		
Total No. of Calling Pairs									35	10	67	10	3	6	16	55	68	35	30	16	32				

Legend

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S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 Secure—Common, widespread, and abundant in the nation or state/province.

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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

3 Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

4Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G). 151 p plus appendices.

Soper Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. of Stations	C6AC-1	C6AC-2	C6CL-1	C6CL-2	C6CL-3	C6GI-2	C7BE-1	C7BE-3	C7BE-4	C7C14-1	C7C14-3	C7GI-1	C8DC-1	TCOL-1	TCOL-2	TDCT-5	TDCT-7	TR14-1	TR14-2	
Species Richness									35	22	17	14	9	27	21	6	8	19	16	5	23	26	16	30	14	35	25	
Alder Flycatcher	Empidonax alnorum						13	8			1							1	3		1		1		3	2		
American Crow	Corvus brachyrhynchos						16	12	1	2	1	1	1	1	1	1		1	1		1	2	1	1	1	1	3	
American Goldfinch	Carduelis tristis						24	13	1	1	5	1			2			1	1		1	3	1		1	3	3	
American Redstart	Setophaga ruticilla					A	1	1																		1		
American Robin	Turdus migratorius						36	18	2	3	4	4	1	3	3		1	2	1	1	2	2	2	1	1	2	1	
Baltimore Oriole	Icterus galbula						10	7	1			1			2						2	2		1		1		
Barn Swallow	Hirundo rustica						1	1	1																			
Belted Kingfisher	Ceryle alcyon						1	1														1						
Black-and-white Warbler	Mniotilta varia					A	29	11	6	4		2	1	4	4							2	1	1		1	3	
Black-billed Cuckoo	Coccyzus erythrophthalmus						1	1														1						
Black-capped Chickadee	Parus atricapillus						34	14	1	1	4			4	4		1	1		1	3	1	1	3		3	6	
Black-throated Blue Warbler	Dendroica caerulescens				X	A	1	1		1																		
Black-throated Green Warbler	Dendroica virens					A	36	13	1	8	3	1	3	2	5		1			1		1	3			4	3	
Blue Jay	Cyanocitta cristata						28	14	5	1	4		1	2	1				1	1		1	3	2	1		1	4
Blue-winged Warbler	Vermivora pinus				X		1	1									1											
Bobolink	Dolichonyx oryzivorus						5	4	1													1						
Brown Thrasher	Toxostoma rufum						2	2	1											1								
Brown-headed Cowbird	Molothrus ater						10	9	1	1		1		1	1									1	1	2		
Canada Warbler	Wilsonia canadensis				X	A	1	1																1				
Cedar Waxwing	Bombycilla cedrorum						5	4	1													1	2				1	
Chestnut-sided Warbler	Dendroica pensylvanica						3	2						2								1						
Chipping Sparrow	Spizella passerina						14	10	2	1	2					1						2	1		1	2	1	
Common Grackle	Quiscalus quiscula						8	8	1	1		1	1									1	1				1	1
Common Yellowthroat	Geothlypis trichas						35	13	3		1	4	1	3	3		1	2	7				1	1		7	1	
Cooper's Hawk	Accipiter cooperi				X	A	1	1	1																			
Downy Woodpecker	Picoides pubescens						2	1																			2	
Eastern Kingbird	Tyrannus tyrannus						6	3							1							4				1	1	
Eastern Meadowlark	Sturnella magna						2	2	1																1			
Eastern Phoebe	Sayornis phoebe						5	4														1		1		2	1	
Eastern Wood-Pewee	Contopus virens						12	8	2					3				1			2	1	1	1		1		
European Starling	Sturnus vulgaris			SE			7	3																3	2		2	
Field Sparrow	Spizella pusilla						4	4			1				1	1		1										
Golden-winged Warbler	Vermivora chrysoptera	THR	SC		X		2	2										1									1	
Gray Catbird	Dumetella carolinensis						13	7	1			2			2										1	1	1	
Great Blue Heron	Ardea herodias						1	1														1						
Great Crested Flycatcher	Myiarchus crinitus						9	7	1						1							1	3		1	1	1	
Great Horned Owl	Bubo virginianus						1	1																			1	
Hairy Woodpecker	Picoides villosus					A	3	3				1	1	1														
House Wren	Troglodytes aedon						16	10	3	1	1			1	2	1		2	1		3		1					
Indigo Bunting	Passerina cyanea						13	9	1	1				2							3		1	1	1	2		
Mourning Dove	Zenaidura macroura						16	12	1	1	1	1	1	1		1		1				3	1	1	1	1	3	
Mourning Warbler	Oporornis philadelphia						6	4			2			1													2	
Northern Cardinal	Cardinalis cardinalis						18	12	1	1				3	1		1	3	1		2	1		2		1	1	
Northern Flicker	Colaptes auratus						2	2											1								1	
Northern Waterthrush	Seiurus noveboracensis						10	4	4	4															1	1		
Ovenbird	Seiurus aurocapillus					A	18	7	2	2				6							2		3		2	1		
Pileated Woodpecker	Dryocopus pileatus					A	1	1						1														
Pine Warbler	Dendroica pinus					A	7	3						5							1			1				
Red-breasted Nuthatch	Sitta canadensis					A	3	1						3														
Red-eyed Vireo	Vireo olivaceus						27	8	4		1			7				6			3		2	3	1			
Red-tailed Hawk	Buteo jamaicensis						1	1																			1	
Red-winged Blackbird	Agelaius phoeniceus						31	8	3			1							10		2	1	5		3	6		
Rose-breasted Grosbeak	Pheucticus ludovicianus						14	10	2	1		1		2	1						2	1		2		1	1	
Ruffed Grouse	Bonasa umbellus						4	4	1		1																1	1
Savannah Sparrow	Passerculus sandwichensis						3	3							1							1				1		
Scarlet Tanager	Piranga olivacea					A	6	2						5										1				
Song Sparrow	Melospiza melodia						69	19	2	2	6	6	1	5	7	1	2	3	8	2	2	4	4	1	1	8	4	
Swamp Sparrow	Melospiza georgiana						2	1																			2	
Veery	Catharus fuscescens					A	15	7	4					4	1							2		1		2	1	
Warbling Vireo	Vireo gilvus						4	3	1									1	2									
White-breasted Nuthatch	Sitta carolinensis					A	1	1						1														
Willow Flycatcher	Empidonax traillii						4	2											3			1						
Wilson's Warbler	Wilsonia pusilla						2	2		1													1					
Wood Thrush	Hylocichla mustelina						22	8	5	3	2			4	3								1	2		2		
Yellow Warbler	Dendroica petechia						13	8		1		1							1	4							1	
Total No. of Calling Pairs									69	42	40	27	11	77	47	6	9	31	50	6	40	46	26	44	19	73	48	

Legend

1COSEWIC (Committee on the Status of Endangered Wildlife in Canada)
(federal status from COSEWIC September 2007)

- EXT Extinct—A species that no longer exists.
- EXP Extirpated—A species no longer existing in the wild in Canada, but occurring elsewhere in the wild.
- END Endangered—A species facing imminent extirpation or extinction throughout its range.
- THR Threatened—A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.
- SC Special Concern—A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.
- IND Indeterminate—A species for which there is insufficient information to support a status designation.
- NAR Not At Risk—A species that has been evaluated and found to be not at risk.

2S-Ranks (provincial)

- Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario.
- S1 Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.
 - S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.
 - S3 Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
 - S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
 - S5 Secure—Common, widespread, and abundant in the nation or state/province.
 - 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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).
 - SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.
 - SE Exotic; not believed to be a native component of Ontario's flora.

3 Regional Status – Durham Region

- from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).
- Rare- 21-50 pairs
 - Very Rare- less than 20 pairs

4Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G).
151 p plus appendices.

Wilmot Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	C7BES-1	C7BES-2	C7BES-4	C7BES-5	C7BES-6	C7BES-7	C7BES-8	C7DCT-1	C7DCT-4	C7DCT-5	C7DCT-7	C7LES-1	C7LES-2	C7LES-3	C8ALL-2	C8ALL-4	C8ALL-5	C8BES-1	C8BES-2	C8DC-2	C8DC-3	C8LE-1	C8LE-2	C8MO-1	SBES-1	SBES-2	TBES-1	TDCT-3	TDCT-4	TLES-1						
Red-tailed Hawk	Buteo jamaicensis						6	5	2						1						1		1														1							
Red-winged Blackbird	Agelaius phoeniceus						23	11	1		1		1		3							1		2	2	1										2	2	7						
Rose-breasted Grosbeak	Pheucticus ludovicianus						21	12					1		1	1						1		1		1								8	1	3		1						
Ruby-throated Hummingbird	Archilochus colubris						1	1																																				
Ruffed Grouse	Bonasa umbellus						3	3			1				1																								1					
Savannah Sparrow	Passerculus sandwichensis						18	10	5		1		1	1									2	1		1												1	4		1			
Scarlet Tanager	Piranga olivacea					A	4	2															1																3					
Song Sparrow	Melospiza melodia						67	24	2		1	2	3		3	4	3			2	1	1		2	6	2	3		1	1									9	1	2	5	7	1
Tree Swallow	Tachycineta bicolor						3	3				1				1																										1		
Upland Sandpiper	Bartramia longicauda				X	A	11	3	6		2															3																		
Veery	Catharus fuscescens					A	13	9							1		1	1				1																				3		
Warbling Vireo	Vireo gilvus						3	2					2		1																													
White-breasted Nuthatch	Sitta carolinensis					A	3	3							1																												1	
Willow Flycatcher	Empidonax traillii						9	6		1	1		1																															1
Winter Wren	Troglodytes troglodytes					A	1	1																																				
Wood Thrush	Hylocicla mustelina						8	7							2	1	1					1		1																			1	1
Yellow Warbler	Dendroica petechia						17	9	1	2	1		4		2						1			4				1		1														
Yellow-rumped Warbler	Dendroica coronata				X		1	1													1																							
Total No. of Calling Pairs									60	19	33	10	39	9	56	49	38	12	8	4	23	29	12	58	19	44	7	11	9	28	8	12	153	26	52	47	54	16						

Legend

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(federal status from COSEWIC September 2007)

EXT Extinct—A species that no longer exists.

EXP Extirpated—A species no longer existing in the wild in Canada, but occurring elsewhere in the wild.

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THR Threatened—A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

SC Special Concern—A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.

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S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.

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S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

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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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

3 Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

4Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G).

151 p plus appendices.

Ganaraska River - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	SBES-3	SBES-4	SBES-5	SBES-6	SBES-7
Species Richness									15	8	22	19	20
American Crow	Corvus brachyrhynchos						8	3			1	5	2
American Goldfinch	Carduelis tristis						11	3			1	7	3
American Robin	Turdus migratorius						7	4	1		3	2	1
Barn Swallow	Hirundo rustica						1	1				1	
Black-and-white Warbler	Mniotilta varia					A	2	1		2			
Black-billed Cuckoo	Coccyzus erythrophthalmus						1	1	1				
Black-capped Chickadee	Parus atricapillus						11	4	3		2	1	5
Black-throated Green Warbler	Dendroica virens					A	4	3	2	1			1
Blue Jay	Cyanocitta cristata						10	4	2		2	2	4
Blue-winged Warbler	Vermivora pinus				X		1	1	1				
Cedar Waxwing	Bombycilla cedrorum						1	1					1
Chestnut-sided Warbler	Dendroica pensylvanica						1	1			1		
Chipping Sparrow	Spizella passerina						6	2				4	2
Common Grackle	Quiscalus quiscula						2	2			1		1
Common Yellowthroat	Geothlypis trichas						1	1			1		
Eastern Kingbird	Tyrannus tyrannus						1	1	1				
Eastern Towhee	Pipilo erythrophthalmus						2	2			1	1	
Eastern Wood-Pewee	Contopus virens						4	2			3		1
Field Sparrow	Spizella pusilla						2	2	1		1		
Golden-winged Warbler	Vermivora chrysoptera	THR	SC		X		1	1		1			
Great Crested Flycatcher	Myiarchus crinitus						3	2	1		2		
Indigo Bunting	Passerina cyanea						8	4	3		2	1	2
Magnolia Warbler	Dendroica magnolia				X	A	1	1		1			
Mourning Dove	Zenaidura macroura						7	4	1		2	2	2
Mourning Warbler	Oporornis philadelphia						3	2		1	2		
Northern Cardinal	Cardinalis cardinalis						2	2	1		1		
Ovenbird	Seiurus aurocapillus					A	22	5	3	1	4	6	8
Pine Warbler	Dendroica pinus					A	1	1				1	
Red-breasted Nuthatch	Sitta canadensis					A	4	2				2	2
Red-eyed Vireo	Vireo olivaceus						18	4	3		7	4	4
Red-winged Blackbird	Agelaius phoeniceus						1	1				1	
Rose-breasted Grosbeak	Pheucticus ludovicianus						3	2			2	1	
Ruby-throated Hummingbird	Archilochus colubris						1	1				1	
Scarlet Tanager	Piranga olivacea					A	2	2			1		1
Song Sparrow	Melospiza melodia						10	5	3	1	1	3	2
Veery	Catharus fuscescens					A	3	2		2			1
Wood Thrush	Hylocichla mustelina						1	1			1		
Yellow Warbler	Dendroica petechia						1	1					1
Yellow-rumped Warbler	Dendroica coronata				X		2	2				1	1
Total No. of Calling Pairs									27	10	42	46	45

Legend

¹COSEWIC (Committee on the Status of Endangered Wildlife in Canada) (federal status from COSEWIC September 2007)

EXT Extinct—A species that no longer exists.

EXP Extirpated—A species no longer existing in the wild in Canada, but occurring elsewhere in the wild.

END Endangered—A species facing imminent extirpation or extinction throughout its range.

THR Threatened—A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

SC Special Concern—A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.

IND Indeterminate—A species for which there is insufficient information to support a status designation.

NAR Not At Risk—A species that has been evaluated and found to be not at risk.

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S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 Secure—Common, widespread, and abundant in the nation or state/province.

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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

³ Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

⁴Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G). 151 p plus appendices.

Tooley Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	BHAN-1	BHAN-7	BHAN-9	BLHAN-1	BLHAN-2	BLHAN-3	BLHAN-5	NSOL-1
Species Richness									15	11	20	10	17	17	21	8
Alder Flycatcher	Empidonax alnorum						2	1	2							
American Crow	Corvus brachyrhynchos						8	3	5		1			2		
American Goldfinch	Carduelis tristis						8	7	1	1	1	1	1	2	1	
American Redstart	Setophaga ruticilla					A	2	2			1	1				
American Robin	Turdus migratorius						19	8	5	6	1	1	1	2	2	1
Baltimore Oriole	Icterus galbula						2	2			1	1				
Black-and-white Warbler	Mniotilta varia					A	3	2			2					1
Black-capped Chickadee	Parus atricapillus						10	7	2	2	2		1	1	1	1
Blue Jay	Cyanocitta cristata						8	6	2	1	2		1	1	1	
Brown Thrasher	Toxostoma rufum						1	1								1
Brown-headed Cowbird	Molothrus ater						4	3				1	2			1
Canada Goose	Branta canadensis						1	1						1		
Cedar Waxwing	Bombycilla cedrorum						18	3	2					14	2	
Chipping Sparrow	Spizella passerina						2	2	1		1					
Common Grackle	Quiscalus quiscula						10	6	1	1	2	4		1	1	
Common Yellowthroat	Geothlypis trichas						2	2					1		1	
Downy Woodpecker	Picoides pubescens						1	1				1				
Eastern Wood-Pewee	Contopus virens						5	4			1	1	1	2		
European Starling	Sturnus vulgaris			SE			19	5		6	1		1	10	1	
Gray Catbird	Dumetella carolinensis						5	5	1	1	1		1		1	
Great Crested Flycatcher	Myiarchus crinitus						3	3			1				1	1
House Wren	Troglodytes aedon						1	1			1					
Indigo Bunting	Passerina cyanea						2	2	1							1
Killdeer	Charadrius vociferus						3	1		3						
Mourning Dove	Zenaidura macroura						1	1						1		
Mourning Warbler	Oporornis philadelphia						2	2			1	1				
Northern Cardinal	Cardinalis cardinalis						2	2			1		1			
Northern Flicker	Colaptes auratus						2	2	1							1
Ovenbird	Seiurus aurocapillus					A	4	1								4
Red-eyed Vireo	Vireo olivaceus						12	7	3		2	1	1	3	1	1
Red-winged Blackbird	Agelaius phoeniceus						16	5	1	9		3	1		2	
Rose-breasted Grosbeak	Pheucticus ludovicianus						1	1			1					
Ruby-throated Hummingbird	Archilochus colubris						1	1						1		
Savannah Sparrow	Passerculus sandwichensis						2	2		1						1
Song Sparrow	Melospiza melodia						10	5		4		1	2	2	1	
Veery	Catharus fuscescens					A	1	1			1					
Vesper Sparrow	Pooecetes gramineus						1	1	1							
Warbling Vireo	Vireo gilvus						1	1				1				
White-breasted Nuthatch	Sitta carolinensis					A	1	1								1
Wood Thrush	Hylocichla mustelina						5	4					1	1	1	2
Yellow Warbler	Dendroica petechia						4	4				1	1	1	1	
Total No. of Calling Pairs									29	35	25	15	18	46	25	12

Legend

1COSEWIC (Committee on the Status of Endangered Wildlife in Canada) (federal status from COSEWIC September 2007)

EXT Extinct—A species that no longer exists.

EXP Extirpated—A species no longer existing in the wild in Canada, but occurring elsewhere in the wild.

END Endangered—A species facing imminent extirpation or extinction throughout its range.

THR Threatened—A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

SC Special Concern—A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.

IND Indeterminate—A species for which there is insufficient information to support a status designation.

NAR Not At Risk—A species that has been evaluated and found to be not at risk.

2S-Ranks (provincial)

Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario.

S1 Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.

S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.

S3 Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.

S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 Secure—Common, widespread, and abundant in the nation or state/province.

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 or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

3 Regional Status – Durham Region

from The Durham Region Natural History Report 1993 (Bain and Henshaw 1994).

Rare- 21-50 pairs

Very Rare- less than 20 pairs

4Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G).

151 p plus appendices.

Darlington Creek - Bird Species

Common Name	Scientific Name	Species at Risk (national) ¹	Species at Risk (Provincial) ¹	Provincially Rare (S Rank) ²	Regionally Rare (Durham Region) ³	Area Sensitive (OMNR) ⁴	Abundance	No. Of Stations	401RUN-2	BLHAN-4	BLRUN-1	BLRUN-2	BLSOL-11	BLSOL-12	BLSOL-13	BLSOL-2	BLSOL-3	BLSOL-6	BLSOL-8	BLSOL-9	BRUN-11	BRUN-3	BRUN-4	BRUN-5	BRUN-6	BRUN-7	BSOL-1	BSOL-2	BSOL-4	BSOL-8	NRUN-2	NRUN-3
Species Richness									5	7	8	54	20	18	31	2	37	13	6	15	25	34	4	4	101	23	28	4	11	76	44	33
Alder Flycatcher	Empidonax alnorum						7	2																	5					2		
American Crow	Corvus brachyrhynchos						16	7						1		1				1		1			10					1		1
American Goldfinch	Carduelis tristis						35	14	1		1	3		1		1	1	1	1			2			14	1	3			1	1	4
American Redstart	Setophaga ruticilla					A	4	4				1								1										1		
American Robin	Turdus migratorius						29	16			1	5	1	1	2	1	2		2		1	1		1	2			1	2	5	1	
American Woodcock	Scolopax minor						1	1						1																		1
Baltimore Oriole	Icterus galbula						10	8				2	1		1							1			1						1	
Barn Swallow	Hirundo rustica						8	4			1															1					5	1
Black-and-white Warbler	Mniotilta varia					A	4	3													2				1	1						
Black-billed Cuckoo	Coccyzus erythrophthalmus						1	1						1																		
Black-capped Chickadee	Parus atricapillus						30	10				1	1	3		1	2				6				8			1		6	1	
Blue Jay	Cyanocitta cristata						19	8			2				1	1						2		2	8				2		1	
Bobolink	Dolichonyx oryzivorus						11	4			7		1								2						1					
Brown Thrasher	Toxostoma rufum						4	4								1		1		1										1	1	
Brown-headed Cowbird	Molothrus ater						6	6			1	1		1		1		1							1							
Cedar Waxwing	Bombycilla cedrorum						35	7			1						15				3	3	2		8							3
Chestnut-sided Warbler	Dendroica pensylvanica						1	1										1														
Chipping Sparrow	Spizella passerina						1	1												1												
Common Grackle	Quiscalus quiscula						20	10	1		1	1	1		1		1				3	1			3						7	
Common Yellowthroat	Geothlypis trichas						25	13		1			3	1	1		1				1	1	1		6	4			3	1	1	
Downy Woodpecker	Picoides pubescens						5	5		1				1			1								1				1			
Eastern Kingbird	Tyrannus tyrannus						4	4			1					1						1								1		
Eastern Meadowlark	Sturnella magna						6	5			2									1				1		1				1		
Eastern Wood-Pewee	Contopus virens						9	5					1			2				1	1								4			
European Starling	Sturnus vulgaris			SE			13	8	1		2					1						1			1	3			1	3		
Field Sparrow	Spizella pusilla						2	2											1												1	
Gray Catbird	Dumetella carolinensis						23	14		1		1	1			1				1			1	1	8	1		1	2	1	1	
Great Crested Flycatcher	Myiarchus crinitus						4	4				1													1	1					1	
House Finch	Carpodacus mexicanus			SE			2	2														1							1			
House Wren	Troglodytes aedon						7	6			2	1	1			1														1	1	
Indigo Bunting	Passerina cyanea						8	7		1						1	1		1		1			1				2				
Least Flycatcher	Empidonax minimus					A	3	3			1		1	1																		
Mallard	Anas platyrhynchos						2	1						2																		
Mourning Dove	Zenaida macroura						7	5						1							1	1						2	2			
Mourning Warbler	Oporornis philadelphia						1	1																		1						
Nashville Warbler	Vermivora ruficapilla						1	1								1																
Northern Cardinal	Cardinalis cardinalis						17	11			2	1		1		1	1								3	2		1	3	1		
Northern Flicker	Colaptes auratus						2	2																		1					1	
Northern Harrier	Circus cyaneus						1	1																			1					
Northern Waterthrush	Seiurus noveboracensis						8	2						1																7		
Ovenbird	Seiurus aurocapillus					A	11	1																						11		
Pileated Woodpecker	Dryocopus pileatus					A	1	1																						1		
Red-eyed Vireo	Vireo olivaceus						30	14		1		1	1	1		1	1		1	3	1			3				1	12	2	1	
Red-tailed Hawk	Buteo jamaicensis						2	2																1							1	
Red-winged Blackbird	Agelaius phoeniceus						51	14	1		1	6	1	5	6					2				2	2	6		1	12	3		
Rose-breasted Grosbeak	Pheucticus ludovicianus						3	2													2				1							
Ruby-throated Hummingbird	Archilochus colubris						1	1									1															
Savannah Sparrow	Passerculus sandwichensis						7	5			2	1								1						2				1		
Scarlet Tanager	Piranga olivacea					A	1	1																						1		
Song Sparrow	Melospiza melodia						52	16		1		9	1	2	1		1	2	1			3			8	4	5	2		4	2	6
Swamp Sparrow	Melospiza georgiana						4	3						1								2				1						
Tree Swallow	Tachycineta bicolor						6	4			1	1						1													3	
Veery	Catharus fuscescens					A	10	5						1			1			1					2				5			
Warbling Vireo	Vireo gilvus						6	5		1	1		1	2																	1	
White-throated Sparrow	Zonotrichia albicollis						2	1																		2						
Willow Flycatcher	Empidonax traillii						4	2														2				2						
Wilson's Warbler	Wilsonia pusilla						1	1					1																			
Wood Thrush	Hylocichla mustelina						5	4						1		1																
Yellow Warbler	Dendroica petechia						14	11	1		1	2	1	1	2					1		2				1	1					