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## APPENDIX E

TRCA Locally Significant (L-Rank) Flora and Fauna Species Lists

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Scientific Name	Common Name	GRANK <sup>1</sup>	SRANK <sup>2</sup>	COSEWIC <sup>3</sup>	MNR <sup>4</sup>	TRCA rank (2003) <sup>5</sup>	MNR Area Sensitive <sup>6</sup>	Observed by TRCA in Study Area
<i>Agelaius phoeniceus</i>	Red-winged Blackbird	G5	S5B,SZN					x
<i>Anas platyrhynchos</i>	Mallard	G5	S5B,SZN					x
<i>Bombycilla cedrorum</i>	Cedar Waxwing	G5	S5B,SZN					x
<i>Cardinalis cardinalis</i>	Northern Cardinal	G5	S5					x
<i>Carduelis tristis</i>	American Goldfinch	G5	S5B,SZN					x
<i>Ceryle alcyon</i>	Belted Kingfisher	G5	S5B,SZN			L4		x
<i>Chordeiles minor</i>	Common Nighthawk	G5	S4B,SZN	THR		L4		x
<i>Colaptes auratus</i>	Northern Flicker	G5	S5B,SZN			L4		x
<i>Corvus brachyrhynchos</i>	American Crow	G5	S5B,SZN					x
<i>Cyanocitta cristata</i>	Blue Jay	G5	S5					x
<i>Didelphis virginiana</i>	Virginia Opossum	G5	S4					x
<i>Dumetella carolinensis</i>	Gray Catbird	G5	S5B,SZN			L4		x
<i>Empidonax traillii</i>	Willow Flycatcher	G5	S5B,SZN			L4		x
<i>Hylocichla mustelina</i>	Wood Thrush	G5	S5B,SZN			L3		x
<i>Marmota monax</i>	Woodchuck	G5	S5			L4		x
<i>Melospiza melodia</i>	Song Sparrow	G5	S5B,SZN					x
<i>Mimus polyglottos</i>	Northern Mockingbird	G5	S4B,SZN			L4		x
<i>Odocoileus virginianus</i>	White-tailed Deer	G5	S5			L4		x
<i>Passer domesticus</i>	House Sparrow	G5	SE					x
<i>Picoides pubescens</i>	Downy Woodpecker	G5	S5					x
<i>Poecile atricapillus</i>	Black-capped Chickadee	G5	S5					x
<i>Pseudacris crucifer</i>	Spring Peeper	G5	S5			L2		x
<i>Pseudacris triseriata</i>	Western Chorus Frog (Great Lakes/St.Lawrence Population)	G5	S4	THR	NAR	L2		

<i>Quiscalus quiscula</i>	Common Grackle	G5	S5B,SZN					x
<i>Rallus limicola</i>	Virginia Rail	G5	S4B,SZN			L3		x
<i>Rana sylvatica</i>	Wood Frog	G5	S5			L2		x
<i>Sciurus carolinensis</i>	Grey Squirrel	G5	S5					x
<i>Scolopax minor</i>	American Woodcock	G5	S5B,SZN			L3		x
<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow	G5	S5B,SZN			L4		x
<i>Sylvilagus floridanus</i>	Eastern Cottontail	G5	S5			L4		x
<i>Troglodytes aedon</i>	House Wren	G5	S5B,SZN					x
<i>Turdus migratorius</i>	American Robin	G5	S5B,SZN					x
<i>Tyrannus tyrannus</i>	Eastern Kingbird	G5	S5B,SZN					x
<i>Vireo gilvus</i>	Warbling Vireo	G5	S5B,SZN					x
<i>Vireo olivaceus</i>	Red-eyed Vireo	G5	S5B,SZN			L4		x
<i>Vulpes vulpes</i>	Red Fox	G5	S5					x
<i>Actitis macularia</i>	Spotted Sandpiper	G5	S5B,SZN			L4		x

## Legend

### <sup>1</sup>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.

### <sup>2</sup>S-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).
- SAN 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.

### <sup>3</sup>COSEWIC (Committee on the Status of Endangered Wildlife in Canada)

*(federal status from COSEWIC April 2008)*

- 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.
- \* - Species on Schedule 1 of Species At Risk Act (SARA)

### <sup>4</sup>OMNR (Ontario Ministry of Natural Resources)

*(provincial status from MNR June 2008)*

*The provincial review process is implemented by the MNR's Committee on the Status of Species at Risk in Ontario (COSSARO).*

- EXT Extinct - A species that no longer exists anywhere.
- EXP Extirpated - A species that no longer exists in the wild in Ontario but still occurs elsewhere.
- END-R Endangered (Regulated) - A species facing imminent extinction or extirpation in Ontario which has been regulated under Ontario's Endangered Species Act (ESA).
- END Endangered (Not Regulated) - A species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's ESA.
- THR Threatened - A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed.
- SC Special Concern (formerly Vulnerable) - A species with characteristics that make it sensitive to human activities or natural events.
- NAR Not at Risk - A species that has been evaluated and found to be not at risk.
- DD Data Deficient (formerly Indeterminate) - A species for which there is insufficient information for a provincial status recommendation.

### <sup>5</sup> Regional Status

#### Toronto and Region Conservation Authority ranks

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  
*(from TRCA, April 2004)*

### <sup>6</sup> MNR Significant Wildlife Habitat Technical Guide Area Sensitive Species

Area 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*

Scientific Name	Common Name	cc <sup>1</sup>	cw <sup>1</sup>	grank <sup>2</sup>	Srank <sup>3</sup>	COSEWIC <sup>4</sup>	MNR <sup>5</sup>	City of Toronto <sup>6</sup>	Greater Toronto Area <sup>6</sup>	Toronto Region Conservation Rank <sup>6</sup>	Observed by TRCA in Study Area
<i>Acer rubrum</i>	Red Maple	4	0	G5	S5			X	X	L4	X
<i>Acer saccharinum</i>	Silver Maple	5	-3	G5	S5			X	X	L4	X
<i>Andropogon gerardii</i>	Big Bluestem	7	1	G5	S4			R <sup>1</sup>	R	L3	X
<i>Antennaria neglecta</i>	Field Pussytoes	3	5	G5	S5			X	X	L3	X
<i>Asclepias incarnata ssp incarnata</i>	Swamp Milkweed	6	-5	G5T5	S5			X <sup>U</sup>	X	L4	X
<i>Aster oolentangiensis</i>	Sky-blue Aster	9	5	G5	S4			R <sup>b</sup>	R	L3	X
<i>Boehmeria cylindrica</i>	False Nettle	4	-5	G5	S5			R <sup>b</sup>	X	L4	X
<i>Carex crinita</i>	Fringed Sedge	6	-4	G5	S5				X	L3	X
<i>Carex lasiocarpa</i>	Slender Sedge	8	-5	G5	S5			E	R	L2	X
<i>Carex retrorsa</i>	Retorse Sedge	5	-5	G5	S5			R <sup>b</sup>	X	L4	X
<i>Carex sparganioides</i>	Burreed Sedge	5	0	G5	S5			R <sup>a</sup>	X	L4	X
<i>Carex tenera</i>	Slender Sedge	4	-1	G5T	S5			R <sup>b</sup>	X	L4	X
<i>Cornus foemina ssp racemosa</i>	Gray Dogwood	2	-2	G5	S5			X	X	L4	X
<i>Cornus rugosa</i>	Round-leaved Dogwood			G5	S5			X	X	L3	X
<i>Crataegus pringlei</i>	Pringle's Hawthorn	4	5	G5	S5			R <sup>c</sup>	R	L3	X
<i>Crataegus submollis</i>	Emerson's Hawthorn	4	5	G5	S4S5			R <sup>b</sup>	R	L3	X
<i>Elymus canadensis</i>	Nodding Wild-rye	8	1	G5	S4S5			R <sup>b</sup>	R	L3	X
<i>Elymus riparius</i>	River-bank Wild-rye	7	-3	G5	S4?			X	R	L4	X
<i>Euonymus obovata</i>	Running Strawberry-bush	6	5	G5	S5			R <sup>b</sup>	X	L3	X
<i>Eupatorium perfoliatum</i>	Common Boneset	2	-4	G5	S5			X	X	L4	X
<i>Hamamelis virginiana</i>	American Witch-hazel	6	3	G5	S5			X	X	L3	X
<i>Juncus effusus ssp solutus</i>	Soft Rush	4	-5	G5T?	S5			R <sup>b</sup>	X	L4	X
<i>Juncus torreyi</i>	Torrey's Rush	3	-3	G5	S5			X <sup>U</sup>	X	L4	X
<i>Lycopus americanus</i>	American Bugleweed	4	-5	G5	S5			X	X	L4	X
<i>Physocarpus opulifolius</i>	Eastern Ninebark	5	-2	G5	S5			R	R	L3	X
<i>Picea glauca</i>	White Spruce	6	3	G5	S5			X <sup>+</sup>	X	L3	X
<i>Pinus strobus</i>	Eastern White Pine	4	3	G5	S5			X	X	L4	X
<i>Populus grandidentata</i>	Large-tooth Aspen	5	3	G5	S5			X	X	L4	X
<i>Quercus alba</i>	White Oak	6	3	G5	S5			X	X	L2	X
<i>Quercus macrocarpa</i>	Bur Oak	5	1	G5	S5			X	X	L4	X
<i>Quercus velutina</i>	Black Oak	8	5	G5	S4			R <sup>b</sup>	R	L2	X
<i>Rosa blanda</i>	Smooth Rose	3	3	G5	S5			X <sup>U</sup>	X	L4	X
<i>Rudbeckia hirta</i>	Black-eyed Susan	0	3	G5	S5			X	X	L4	X
<i>Salix amygdaloides</i>	Peach-leaved Willow	6	-3	G5	S5			X <sup>U</sup>	X	L4	X
<i>Salix candida</i>	Hoary Willow	10	-5	G5	S5			E <sup>CR</sup>	R	L2	X
<i>Salix discolor</i>	Pussy Willow	3	-3	G5	S5			X	X	L4	X
<i>Salix nigra</i>	Black Willow	6	-5	G5	S4?			R <sup>b</sup>	R	L3	X
<i>Salix petiolaris</i>	Meadow Willow	3	-4	G5	S5			R <sup>c</sup>	X	L3	X
<i>Schizachyrium scoparium</i>	Little Bluestem	7	3	G5	S4			R <sup>c</sup>	R	L2	X
<i>Scirpus microcarpus</i>	Small-fruit Bulrush	4	-5	G5	S5			X <sup>U</sup>	X	L4	X
<i>Scirpus validus</i>	Soft-stemmed Bulrush	5	-5	G?	S5			X	X	L4	X
<i>Scrophularia marilandica</i>	Carpenter's Square Figwort	7	4	G5	S4			R <sup>b</sup>	R	L3	X
<i>Silphium perfoliatum var perfoliatum</i>	Cup-plant	9	-2	G5T?	S2			R <sup>a</sup>	R	L4	X
<i>Sorghastrum nutans</i>	Yellow Indian-grass	8	2	G5	S4			R <sup>c</sup>	R	L2	X
<i>Sparganium eurycarpum</i>	Large Bur-reed	3	-5	G5	S5			R <sup>a</sup>	R	L3	X

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<i>Tsuga canadensis</i>	Eastern Hemlock	7	3	G5	S5			X	X	L4	X
<i>Typha latifolia</i>	Broad-leaf Cattail	3	-5	G5	S5			X	X	L4	X
<i>Viburnum rafinesquianum</i>	Downy Arrow-wood	7	5	G5	S5			R <sup>2</sup>	R	L3	X
<i>Viburnum trilobum</i>	Highbush Cranberry	5	-3	G5T5	S5			R	X	L2	X
<i>Viola blanda</i>	Smooth White Violet	6	-2	G4G5	S4S5			R <sup>1</sup>	X	L3	X
<i>Zizia aurea</i>	Common Alexanders	7	-1	G5	S5			R <sup>3</sup>	R	L3	X

## Legend

### <sup>1</sup> Coefficient of Conservatism and Coefficient of Wetness

CC = Coefficient of Conservatism. Rank of 0 to 10 based on plants degree of fidelity to a range of synecological parameters: (0-3) Taxa found in a variety of plant communities; (4-6) Taxa typically associated with a specific plant community but tolerate moderate disturbance; (7-8) Taxa associated with a plant community in an advanced successional stage that has undergone minor disturbance; (9-10) Taxa with a high fidelity to a narrow range of synecological parameters.

CW = Coefficient of Wetness. -Value between 5 and -5. A value of -5 is assigned to Obligate Wetland (OBL) and 5 to Obligate Upland (UPL), with intermediate values assigned to the remaining categories (Oldham et al., 1995).

### <sup>2</sup>G-Rank (global)

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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.

### <sup>4</sup>COSEWIC (Committee on the Status of Endangered Wildlife in Canada)

(federal status from COSEWIC April 2008)

EXT Extinct - A species that no longer exists.

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

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(provincial status from MNR June 2008)

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DD Data Deficient (formerly Indeterminate)—A species for which there is insufficient information for a provincial status recommendation.

### <sup>6</sup> Regional Status –

from The Vascular Plant Flora of the Greater Toronto Area (Varga et al. 1999).

"Plant rarity is based on the number of locations for a native plant species" and also takes into account native species restricted to specialized rare habitats. For the Greater Toronto Area column, "A species is considered rare in the Greater Toronto Area if it is rare or uncommon in a least four of... Halton, Peel, Toronto, York, and Durham".

Codes are defined as follows:

X - Present

U - uncommon native species

R - rare native species

R# - number of stations for a rare native species

E - extirpated native species

+ - introduced species

X+ - introduced in municipality

SR - sight record

LR - literature record

Varga, S., et al. 1999. *The Vascular Plant Flora of the Greater Toronto Area (Rough Draft)*. Ontario Ministry of Natural Resources, Aurora, ON. 82 pp.

from Toronto and Region Conservation (TRCA 2003)

L rank (Local Rank) - A rank assigned by TRCA to a species, vegetation community, or habitat patch which describes its rank and level of conservation concern in the TRCA Region. Species of concern, according to the TRCA methodology are any species with a local rank of L1 to L3, and some particularly sensitive species with a rank of L4. They are generally species which are disappearing in the landscape, primarily as a result of land use changes.

For flora the ranks are defined as follows (TRCA 2007).

L1 - of concern regionally; almost certainly rare in TRCA jurisdiction; generally occur in high-quality natural areas, in natural matrix; unable to withstand disturbance. L2 - of concern regionally; probably rare in TRCA jurisdiction; generally occur in high-quality natural areas, in natural matrix; unable to withstand disturbance. L3 - of concern regionally; generally secure in natural matrix; able to withstand minor disturbance. L4 - of concern in urban matrix; generally secure in rural matrix; able to withstand some disturbance. L5 - not of concern; generally secure throughout jurisdiction, including urban matrix; able to withstand high levels of disturbance. LX Extirpated from the TRCA region with remote chance of rediscovery. Presumably highly sensitive. Not scored. LH Hybrid between two native species. Usually not scored unless highly stable and behaves like a species.

L+ Exotic. Not native to TRCA jurisdiction. Includes hybrids between a native species and an exotic. Not scored. L+? Origin uncertain or disputed, i.e. may or may not be native. Not scored.

Toronto and Region Conservation Authority. 2004. *Table entitled TRCA Flora Scores & Ranks (11 April 2003)*. Unpublished document provided by TRCA and Toronto and Region Conservation. 2007. *Toronto and Region Natural Heritage System Strategy – Final Draft January 2007*.