



Annual Local Occurrence Score and Local Rank Update

Terrestrial Fauna and Flora Species, and Vegetation Communities

Environmental Monitoring and Data Management Section

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Executive Summary

The purpose of this report is to provide an update on the changes to the vegetation communities and flora and fauna species scores for the population and local distribution criteria as part of the Toronto and Region Conservation Authority ranking and scoring methodology. Annual reporting on these updates provides documentation in order to apply up to date information on the species and communities found within the region.

Vegetation Communities

This is the second reassessment of vegetation communities using the current protocol, which includes vegetation data over the 15-year period 2002-2016. A total of five new vegetation communities have been added to the database (Table 19). One of these was a significant new wetland community: Wild Rice Organic Shallow Marsh, found at Bloomington Wetland. Another was a Hay Sedge Sand Barren found at the University of Toronto Scarborough campus. The other three communities were either plantations or derived from them.

Eight communities showed a decrease in L-rank (i.e. reduced sensitivity) and 4 showed an increase (increased sensitivity).

Flora Species

A total of 22 new flora species have been added to the flora database in the 2016 field season (Table 11). Two of these are genuinely rare plants that had not been previously found: hybrid fen birch (*Betula x purpusii*) and James' sedge (*Carex jamesii*). Two were hybrids of common native species that are probably overlooked. The remainder are ruderal or adventive, found to be reproducing from plantings. They are also all exotic but 1 is native to other parts of southern Ontario.

There were two species which were thought to have been extirpated but found again in 2016: conspecta hawthorn (*Crataegus coccinioides*), and sweet grass (*Anthoxanthum nitens* ssp. *nitens*). Northern short-husk (*Brachyelytrum aristosum*) had been suspected in our jurisdiction but was confirmed in 2016.

A total of 22 flora species had a change of rank since the last update a year ago; all of these experienced a change of one rank level (Table 14). Sixteen species had a decrease in rank, while 6 had an increase. The preponderance of decreases is largely due to the increased number of grid square data records leading to lower scores for Local Occurrence and thus a lower total score and rank. Many of these are the result of improved coverage leading to new records. For example, additional locations were found for hairy aster (*Symphotrichum pilosum* ssp. *pilosum*) and smaller evening-primrose (*Oenothera parviflora*). The L-ranks of hairy aster dropped from L2 to L3 and smaller evening primrose from L3 to L4.

Fauna Species

Two new species were added to the regional terrestrial fauna list: American wigeon (*Anas americana*) based on observations of 2 pairs summering at Tommy Thompson Park (TTP) in potential nesting habitat; and spiny softshell turtle (*Apalone spinifera*), again observed in one of the wetland cells at TTP. There were no reported “extirpations” from the current TRCA fauna list.

Several meadow and forest bird species continued to show signs of decline. Of the meadow birds, Bobolink (*Dolichonyx oryzivorus*) showed the largest decline (-11 grid squares) as compared to the original baseline decade (2001 to 2010), with 3 other meadow obligate Species of Conservation Concern showing smaller but still significant declines.

There was a total of 10 species that showed a change in L-rank: 1 species showed a climb to the next highest L-rank (northern mockingbird, *Mimus polyglottos*, from L5 to L4), while 9 species slipped to the next rank down. Most of these changes involved species whose total score lies at the threshold between consecutive L-ranks, and as such only very minor changes in each scoring criterion (specifically Local Occurrence) will result in an L-rank change. These changes could just as readily swing back the other way in future years, as has been the case for species such as eastern screech-owl (*Megascops asio*) and field sparrow (*Spizella pusilla*).

1.0 Introduction

Since 2000 the Toronto and Region Conservation Authority (TRCA) has been conducting terrestrial biological inventories of thousands of hectares of natural cover within its jurisdiction. The elements covered include flora and fauna species, and vegetation communities. The selection of sites each year is driven primarily by upcoming development issues and by management plan requirements for Conservation Authority lands. As part of this ongoing inventory a ranking and scoring system was developed and designed to indicate the conservation concern for each species and vegetation community documented.

All fauna and flora species and vegetation communities recorded within the region have been assigned a local rank (L-rank) based partly on the ecological sensitivity and partly on the population status within the TRCA jurisdiction. Since, for some species, this latter criterion is expected to change over time and potentially influence the overall local rank for those species, an annual re-assessment of the occurrence of every terrestrial flora and fauna species in the region was initiated in 2010. Vegetation communities have been re-assessed about every two years with a desired goal of annual review. A description of the ranks and scores follows; more detail can be found in TRCA (2017).

The L-rank has a value ranging from L1 to L5, thus paralleling the provincial (or state) ranks of S1 to S5 as well as the corresponding national (N) and global (G) ranks. The difference is that the latter ranks are based almost entirely on population criteria, while the L-ranks which include sensitivity criteria take a more pro-active approach and can identify species of conservation concern before they become rare.

Species and communities ranked L1 to L3 are considered to be of *regional* conservation concern. That is, they are flagged as being of risk within the entire TRCA jurisdiction over the long term. They may not be currently rare, but are highly sensitive to habitat loss and disturbances associated with changes in the surrounding habitat matrix (i.e. matrix influences). In general, they are not found within the urban landscape. This is particularly true for fauna, which respond more quickly to changes in the environment. Relict populations of sensitive flora may persist within a secluded pocket of an urban ravine for decades. In addition to the L1 to L3 ranked species, a large number of currently common or secure species (or communities) at the regional level are considered of concern in the urban context. These are the species identified with an L-rank of L4. Although L4 species are widespread and frequently occur in relatively intact urban sites, they are vulnerable to long-term declines within urban settings.

Non-native species (as well as communities dominated by non-native species in the canopy layer) are indicated by L+, while any species that is believed to be no longer present in the jurisdiction is indicated as LX (extirpated). For fauna, any species which has not been reported for the previous 10 years is ranked LX, while the period is roughly 40 years for flora unless there is more conclusive evidence of the population no longer existing (e.g. intensive searching cannot find the plant at its historic location: some plants found as recently as 2008 have since been

determined to have died out). Some of the “extirpated” species of fauna are also those which may have occurred just as rare vagrants within the region. Finally, there are a few flora species which have unverified records within TRCA – their identification is uncertain; these are assigned a rank of LU. We are not sure if these plants actually occur within our jurisdiction without clearer evidence.

2.0 Methods

2.1 Estimating Abundance

The method of determining abundance (Local Occurrence) of flora and fauna species within the TRCA jurisdiction is based on its distribution across the area. Vegetation community abundance includes areal coverage as well as distribution. For distribution, the TRCA jurisdictional mapping is overlaid with a grid of 10x10 km UTM squares. The Toronto Region occupies a total of 44 of these 100 km² grid squares, many of which contribute only a fraction of their area to the regional surface (Figure 1). Local Occurrence scores for each species are based upon the number of grid squares within which it is found.

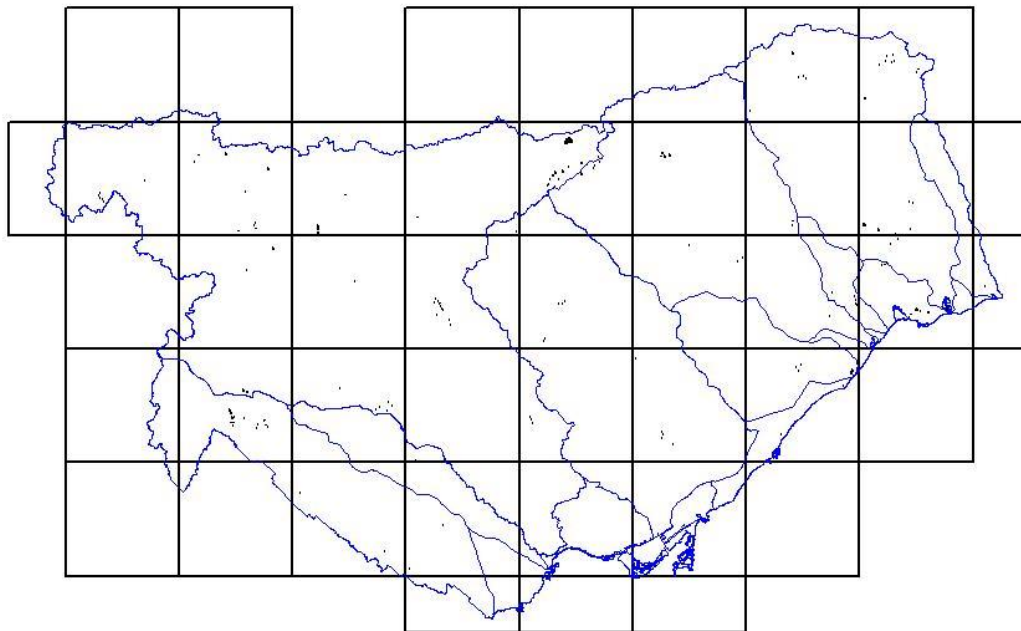


Figure 1. 10 x10 km UTM grid squares overlaid on TRCA jurisdictional boundary

2.2 Flora Scoring and Ranking

Flora ranks are based upon four equally-weighted criteria, of which *local occurrence* is one. The other three criteria are *population trend*, *habitat dependence*, and *sensitivity to development*. The latter two criteria are fairly stable ecological indicators, though subject to some revision based on further information being gathered about the species. Population Trend is a judgment based largely on changes in Local Occurrence with some additional input from impressions of local naturalists. Hence, the main driver in changes in L-rank is Local Occurrence. Each of the four criteria has a score ranging up to 5; the maximum total score is 20 (Table 1).

Table 1. Total scores from the four flora scoring criteria with associated local ranks

Total Score	TRCA Local Rank
19-20	L1
17-18	L2
14-16	L3
11-13	L4
2-10	L5
not scored (probable exotic)	L+?
not scored (definite exotic)	L+
extirpated from TRCA	LX
not verified within TRCA	LU

2.2.1 Flora Local Occurrence

Each species' current "occurrence" is indicated by the number of grid squares in which the plant has been found within the last 15 years. Older records are not counted, although this does not necessarily indicate that the plant is declared extirpated from the jurisdiction, since cryptic populations of some species can be missed for decades. By implementing the 15-year threshold, however, it is intended that local declines and extirpations will be easier to identify. The Local Occurrence criterion is scored as shown in Table 2, while Population Trend scores are shown in Table 3.

Table 2. Scoring for flora Local Occurrence criterion

Number of 10x10 km UTM Grid-squares	Points Scored Under Local Occurrence
Species has been reported in 0-2 grid square in past 15 years	5
Species has been reported in 3-6 grid squares in past 15 years	4
Species has been reported in 7-15 grid squares in past 15 years	3
Species has been reported in 16-27 grid squares in past 15 years	2
Species has been reported in 28-44 grid squares in past 15 years	1

Table 3. Scoring for flora Population Trend criterion

Trend Observed	Points Scored Under Population Trend
Severe decline: at least 50% reduction in sites and/or populations; little or no reproduction	5
Moderate decline: 20-50% reduction in sites and/or populations; markedly reduced reproduction	4
Mild decline: about 10-20% reduction in sites and/or populations; slightly reduced tree reproduction (or unknown)	3
Apparently stable	2
Increasing	1

TRCA began its systematic natural heritage inventory work in 2000. Since the current level of inventory and monitoring has only been in place for the past 16 years it is only now that annual changes noted can be attributed to real population status changes rather than an artefact of the varying extent of areas inventoried.

Local Occurrence scores for flora were last updated at the end of the 2015 field-season, at which time we began updating scores and ranks on an annual basis. The most recent update (inclusive up to the end of 2016) sees the removal of data from 2001, which is now beyond the 15-year limit and so considered historical. Any species that has not been documented in the jurisdiction over the past 15 years will automatically be scored the maximum 5 points for Local Occurrence. Consideration will then be given as to whether any species not reported in the previous 15 years is reasonably identified as regionally extirpated. In general, a judgment that a species is actually extirpated from TRCA requires evidence such as a targeted search that fails to find the plant at a known historic location or an absence of records that spans many decades. If this is the case then that species will be assigned the rank LX.

Small fluctuations, both positive and negative, in the number of squares holding various species are to be expected as a result of the variable regional coverage from year to year. If the most recent year of data collection has conducted inventories in grid-squares not visited within the past decade then many species will likely show an increase in their grid-square count. If, on the other hand, the year that falls out of the data-set was a year in which coverage was extensive, then some species' grid-square counts will be reduced. However, under a regime of stable or increasing survey coverage over the 15-year interval, any species which show decreased grid-square counts should be flagged as potentially real declines.

2.3 Fauna Scoring and Ranking

Fauna species are ranked based on seven scoring criteria: *local occurrence*, *local population trend*, *continent-wide population trend*, *habitat dependence*, *sensitivity to development*, *area-sensitivity*, and *patch isolation sensitivity*. With the use of this ranking system, communities or species of *regional concern*, ranked L1 to L3, now replace the idea of *rare* communities or species (Table 4). Rarity (*local occurrence*) is still considered but is just one of several criteria that make up the L-ranks, making it possible to identify communities or species of regional concern before they have become rare, and to more efficiently identify the factors that contribute to a species becoming rare.

Table 4. Total Scores for fauna species from the seven scoring criteria with associated ranks.

Total Score	TRCA Local Rank
25+	L1
20 - 24	L2
15 - 19	L3
10 - 14	L4
2 - 9	L5

Of the seven scoring criteria used to assess the overall sensitivity of a species only the three population-based criteria should change to any great extent with the passage of time. The seven criteria can be split into two groups: the ecological criteria, concerned with the biology and behaviour of the species; and the population criteria, concerned with the status of the population of the species. The ecology of any given species should remain fairly constant since this is very much dictated by the requirements and responses of that particular species to its environment.

There are certainly small adjustments that occur over time as for example has been observed with Cooper’s hawk (*Accipiter cooperii*), a species once considered a denizen of large forest tracts, highly sensitive to disturbance, that in the last decade has become a common sight in urban neighbourhoods, nesting in downtown ravines. Nevertheless, it is primarily the population criteria which will vary over the years. This variation will influence the total score that a species accumulates in the scoring process, and in turn this may influence the overall L-rank of the species.

2.3.1 Fauna Local Occurrence

The first of the three population criteria, and the one into which TRCA’s inventories give the greatest insight, is Local Occurrence. Each species’ current “occurrence” is indicated by the proportion of the total number of 10x10 km UTM grid squares occupied by that species (Figure 1).

The age of the record is also considered; fauna populations tend to respond more quickly to changes in the environment than do flora. Thus, for terrestrial fauna species a 10-year threshold (instead of 15 years) has been imposed for inclusion in the current regional fauna dataset. By implementing this 10-year threshold it is intended that local declines and extirpations will be identified earlier. The Local Occurrence criterion is scored as shown in Table 5.

Given that fauna observations are specifically for breeding records (rather than observational records as for flora), scoring is somewhat different for fauna than for flora. Due to the likelihood of fauna breeding records being underreported (more stringent requirements for inclusion because of the presence of migrant and non-breeding individuals; shorter time-window available for registration of breeding reports results in more rapid assessment of sites), the Local Occurrence scores require a stricter threshold for rarity. For example, a flora species found in two grid squares has a Local Occurrence score of 5 (i.e. still the rarest level), while a fauna species recorded from two grid squares has a Local Occurrence score of 4.

Table 5. Scoring for fauna Local Occurrence criterion

Number of 10x10 km UTM Grid-squares	Points Scored Under Local Occurrence
Species has been reported in 0-1 grid square in past decade	5
Species has been reported in 2-5 grid squares in past decade	4
Species has been reported in 6-10 grid squares in past decade	3
Species has been reported in 11-15 grid squares in past decade	2
Species has been reported in 16-20 grid squares in past decade	1
Species has been reported in 21 or more grid squares in past decade	0

The current level of inventory and monitoring has been in place for the past 15 years; in 2013 the data set was considered large enough to reflect real population status changes rather than an artifact of the varying extent of areas inventoried. The annual variation in the proportion of the regional grid inventoried needs to be taken into account when interpreting any apparent changes in Local Occurrence. Over the course of the first 10 year period (2001 to 2010) fauna inventories visited a total of 37 distinct 10km grid squares across the region. For the current 10 year period (2007 to 2016) this total was slightly higher with 40 grid squares visited. This amounts to a 8.1% increase in the total number of grid squares contributing to the calculation of Local Occurrence scores between the 2010 analysis and the 2016 analysis.

Local Occurrence scores for fauna were updated at the end of the 2010 field-season and then subsequently at the end of each season since 2013. The 2010 update saw the removal of the first year of more intensive regional inventory, 2000, from the fauna Local Occurrence calculation. For this current update, using data collected in 2016, data from 2006 was excluded. In this way it is intended that, regardless of the positioning in time of the standard 10 year period, the area of coverage considered in the updates will be approximately constant. During the first 10 year period (2001 to 2010) a total of 25,545 fauna records were registered across the region; for the period 2004 to 2013 this number dropped slightly to 24,262 records, a decrease of just 5.02%. The next 10 year period registered a total of 26,129 fauna records, a 2.3% increase over the initial 2001 to 2010 recording period. The current period (2007 to 2016) registered 30,567 records – a rather large 19.7% increase over the initial recording period.

Fauna species that have not been reported in the region since before the threshold decade, may seem to be “extirpated” because they will not appear in any grid squares. This may indeed be the case or it may be that surveys have simply omitted times or locations where these rare or cryptic species could have been observed. Any species that has not been documented in the jurisdiction over the past decade will automatically be scored the maximum five points for Local Occurrence. Consideration will then be given as to whether any species not reported in the previous decade is reasonably identified as regionally extirpated. If this is the case then that species will be assigned the rank LX.

Small fluctuations, both positive and negative, in the number of squares holding various species are to be expected as a result of the variable regional coverage from year to year. If the most recent year of data collection has conducted inventories in grid-squares not visited within the earlier 10 year period, then many species will likely show an increase in their grid-square count. If, on the other hand, the year that falls out of the data-set was a year in which coverage was extensive, then some species’ grid-square counts will be reduced. For this current report, the years 2001-2003 had surveys covering a wide area; coverage in 2007 and 2010 (i.e. years within the current 10 year period) was more modest but then in 2016 this was amply compensated by coverage in squares that had not been inventoried for several year. Given that there was an 8.1% increase in the number of grid-squares inventoried between the two time periods, any decrease

in the regional grid square total occupied by any one species could be considered a potentially real decline. In the previous two analyses, this threshold has been set at + or – 4 grid squares, the same threshold has been used for this current analysis.

2.3.2 Fauna Population Trends

The two other population-based scoring criteria are both concerned with the trend of species' populations: one at the continental scale, and the other at the local or regional scale. The former score is derived solely from the results of the Breeding Bird Survey (BBS) data analysis conducted by the United States Geological Survey (USGS), the results of which are available through their web-site (<http://www.mbr-pwrc.usgs.gov/bbs/>). The data trend analysis posted online includes an indication of the “reliability” of the trends identified, and this reliability indication has been incorporated into the TRCA's Continental Population Trend score. The USGS updates its trend analysis periodically, the latest update – an analysis of all BBS data from 1966 to 2013 - having been posted in January, 2015.

Table 6 shows the Continental Population Trend score associated with each level of population change. These scores have been incorporated from the results shown on the USGS BBS web-site.

Table 6. Scoring for fauna Continent-wide Population Trend criterion

Score	Population Trend
0	significant increase of >5% per year
1	increase of 0.1% to 5% per year
2	status unknown (u), or population stable
3	small decrease of -0.1% to -1% per year
4	decrease of -1% to -5% per year
5	significant decrease of more than -5% per year

The Local Population Trend score was, until the 2013 update, based entirely on experienced field-biologist interpretation. In 2013, however, it was considered that enough local occurrence data had been gathered over the previous 13 years to facilitate a slightly more rigorous approach to this scoring criterion (Table 7).

Table 7. Scoring for fauna Local Population Trend criterion

Score	Population Trend
0	significant increase of >15 regional grid squares
1	increase of 4 to 14 regional grid squares
2	status unknown (u), or population stable (change falls between -3 to +3 grid squares)
3	small decrease of -4 to -8 regional grid squares
4	decrease of -9 to -14 regional grid squares
5	significant decrease of > -15 grid squares

2.4 Vegetation Community Scoring and Ranking

Vegetation communities in the TRCA jurisdiction are delineated and mapped using a modified version of the Ontario Ecological Land Classification (ELC) which was released by Lee *et al.* (1998). TRCA began using ELC to designate vegetation communities in 2000 and by 2001 had set up its own version which included a list of dominant plants by canopy layer and significant disturbances found in each community. This has subsequently undergone only minor changes (for example including soil profile information and presence of vernal pools for selected polygons) (TRCA 2007). The southern Ontario ELC is currently under review for an update. In the meantime, TRCA has found numerous communities that were not in the original ELC guide. This is especially true for anthropogenically-disturbed successional communities (which are abundant in the jurisdiction), but new communities were found of every type, from forest to wetland. The TRCA-identified communities have an alphabetic character following the dash. For example, FOD7-2 (Fresh-Moist Ash Deciduous Forest) was in the original ELC, but FOD7-a (Fresh-Moist Manitoba Maple Deciduous Forest) was not. Occasionally, a community that was reported in the 1998 ELC guide is found for the first time in the TRCA jurisdiction. It retains the numeric designation, e.g. CLT1-1 (White Cedar Treed Cliff).

Vegetation community ranks are based upon two equally-weighted criteria, of which Local Occurrence is one and Geophysical Requirements the other. Geophysical Requirements is a fairly stable ecological indicator, though subject to some revision based on further information being gathered about the community. It measures how restricted the community in question is to specific soil types, moisture and disturbance regimes, and topographical situations. Hence, the main driver in changes in L-rank is Local Occurrence. However, since vegetation communities have a spatial as well as a point location, Local Occurrence is subdivided equally into a distributional score (paralleling that of species) and an area score that takes into consideration

the actual amount of land covered by the community. Local Occurrence and Geophysical Requirements each have a score ranging up to 5; the maximum total score is 10 (Table 8).

Table 8. Total Scores for vegetation communities from the two scoring criteria with associated ranks.

Total Scores	L-Rank	Level Of Conservation Concern In TRCA Region
1 – 2.5	L5	Generally secure; may be a conservation concern in a few specific situations. Contributes to natural cover.
3 – 4.5	L4	Generally secure in rural matrix; of conservation concern in the urban matrix.
5 – 6	L3	Of regional concern; restricted in occurrence and/or requires specific site conditions; generally occurs in natural rather than cultural areas.
6.5 – 8	L2	Of regional concern; typically occurs in high-quality natural areas and under highly specific site conditions; probably at risk in the Toronto area.
8.5 – 10	L1	Of regional concern in TRCA jurisdiction due to rarity, stringent habitat needs, and/or threat to habitat.
Not scored	L+	Community defined by alien species (e.g. Scots pine plantation, buckthorn thicket). Contributes to natural cover at least to some extent.
Not scored	n/a	Community designation too broad or vague to score (not a currently recognized veg type).

2.4.1 Vegetation Community Local Occurrence

The Local Occurrence score for vegetation communities is the average of the Local Distribution and Area Scores. The Local Distribution Score is based upon a grid-square count similar to what is done for species (see Figure 1) except that it is logarithmically calibrated to account for a straight regression line (Table 9).

Table 9. Local Distribution scores for TRCA vegetation communities

Score	# 10 x 10 km UTM grid squares
5	≤ 2
4	3 – 12
3	13 – 23
2	24 – 33
1	≥ 34

The Area Score is also a logarithmic scale based on the proportion of the total area surveyed that is occupied by a given vegetation community (Table 10).

Table 10. Area Scores for TRCA vegetation communities

Score	Log (Relative Area)	Relative Area (area of community / total land surveyed last 15 years)
5	< -3	< 0.001
4	-3 to -2	0.001 to 0.01
3	-2 to -1	0.01 to 0.1
2	-1 to 0	0.1 to < 1
1	>0	> 1

For the purposes of discussing changes in Local Occurrence in this review, we will be focussing on the Local Distribution Scores, since the Distribution Score varies more incrementally and it is easier to itemize the changes. The Area Score and the number of hectares of a community, however, are essential to assessing its abundance within the jurisdiction, since a community may be widely distributed across the grid squares but present only as tiny patches.

3.0 Results and Discussion

3.1 Flora Species

A total of 22 new flora species have been added to the flora database in the 2016 field season (Table 11). These include 4 native species and 18 exotic species. One of the new native species is James' sedge (*Carex jamesii*), a Carolinian forest sedge found in a ravine in Woodbridge. It had hitherto been unknown in the TRCA jurisdiction. It is readily identifiable by the long, slender bracts on the inflorescence (Figure 2). Hybrid fen birch (*Betula x purpusii*) was found at White Rose Bog. This tree is a cross between yellow birch (*Betula alleghaniensis*) and dwarf birch (*Betula pumila*). Dwarf birch has been reported from a couple of kettle wetlands in the Oak Ridges / Bloomington Area but not since the 1980s or 1990s. The other two new native species are cryptic hybrids of common parent species that are probably underreported (*Amelanchier x grandiflora* ; showy serviceberry and *Symphotrichum cordifolium x lateriflorum*; heart-leaved calico hybrid aster).

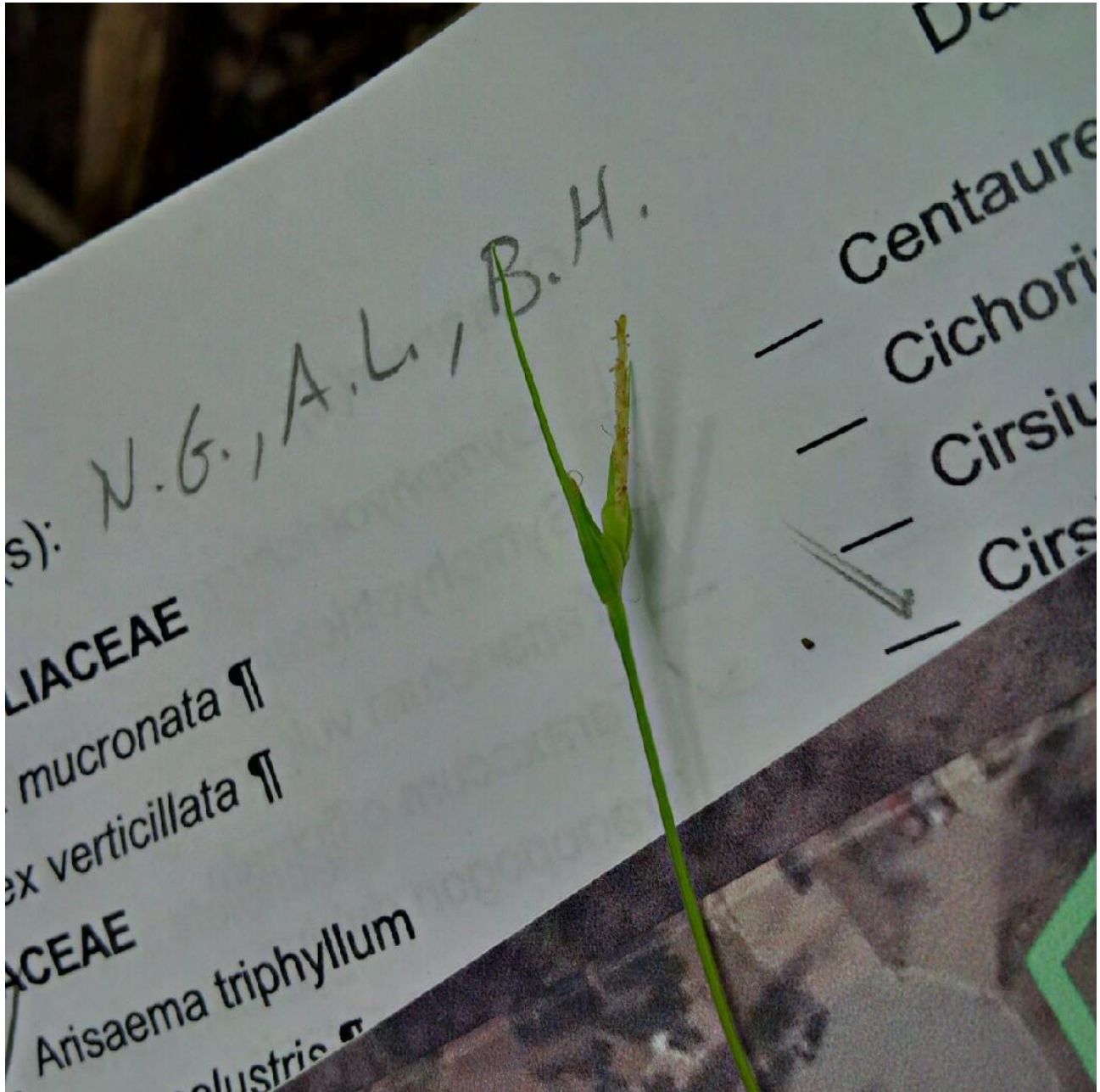


Figure 2. James' sedge, a rare Carolinian sedge found for the first time in 2016 (photo: TRCA 2016).

Of the 18 new records that are exotic, 14 are locally-escaped adventive species, found to be reproducing from plantings. A parcel of land south of Claremont Field Centre that had been a horticultural nursery in the 1970s accounted for 5 of these. One of the adventive species at this property, chocolate vine (*Akebia quinata*) has been identified in the literature as an invasive species in the eastern USA (US National Park Service and University of Georgia 2017). Chocolate

vine originates in east Asia. On the other hand, blue ash (*Fraxinus quadrangulata*) is native to far southwestern Ontario (though not the TRCA jurisdiction) and may be resistant to emerald ash borer. It was found reproducing from plantings in Milne Conservation Area.

Four new exotic species could not be readily traced to originating plantings. One was a pondweed hybrid found at Lake St. George Field Centre with curly pondweed (*Potamogeton crispus*) as one of the parents with the other parent being unclear (though it was likely least pondweed, *P. pusillus* var. *tenuissimus*). Another was European wood sedge (*Carex sylvatica*), found at Milne Conservation Area and Bolton Camp. This sedge resembles the native nodding wood sedge (*C. arctata*) except that it has a pale brown base instead of red. European wood sedge populations were very local but large; it has recently appeared in Michigan and should be considered at least potentially invasive (University of Michigan 2017).

Table 11. New and recently-recognized flora species added to TRCA database in 2016

Species	L-rank	Notes
<i>Betula x purpusii</i> (hybrid fen birch)	L2	Native hybrid of <i>B. alleghaniensis</i> and <i>B. pumila</i> . <i>B. pumila</i> is a rare kettle peatland species last seen in 1980s or 1990s.
<i>Carex jamesii</i> (James' sedge)	L3	New native record for TRCA: Carolinian sedge found in ravine in Woodbridge.
<i>Amelanchier x grandiflora</i> (showy serviceberry)	L4	Native hybrid of <i>A. arborea</i> and <i>A. laevis</i> . Labeled on planted specimen at Milne Conservation Area, very likely occurring naturally across jurisdiction but cryptic.
<i>Symphotrichum cordifolium x lateriflorum</i> (heart-leaved calico hybrid aster)	L4	Native hybrid. Likely fairly common across TRCA but cryptic, confirmed at Lake St. George (I.D. confirmed by J. Semple 2016)
<i>Bromus sterilis</i> (barren brome)	L+	Growing along weedy edge of Scarborough Bluffs. Native to Europe.
<i>Carex sylvatica</i> (European wood sedge)	L+	Found in disturbed scrubby woods at Milne CA and Bolton Camp. Seems to be at least potentially invasive .
<i>Pilosella flagellaris</i> (flagellate hawkweed)	L+	Found at Ballycroy Tract in sandy open places. Native to Europe.
<i>Potamogeton crispus</i> x cf. <i>pusillus</i> (hybrid pondweed)	L+	At Lake St. George: <i>P. crispus</i> definitely one parent, the other parent probable. Curly pondweed is native to Europe and somewhat invasive in the Great Lakes.
<i>Akebia quinata</i> (chocolate vine)	L+	Adventive on former nursery property south of Clarendon. Reported to be invasive in eastern United States.
<i>Chelone obliqua</i> (slender pink turtlehead)	L+	Adventive from garden near Thompson Lake (west of Hwy 400). Native to south-central USA.
<i>Corylus maxima</i> (filbert)	L+	Adventive along Scarborough Bluffs, possibly from fill. Native to southeastern Europe.
<i>Cota tinctoria</i> (yellow chamomile)	L+	Adventive on former nursery property south of Clarendon. Native to Europe.
<i>Doronicum plantagineum</i> (leopard's bane)	L+	Adventive from old gardens at Lake St. George Field Centre. Native to Europe.
<i>Fraxinus quadrangulata</i> (blue ash)	L+	Native to far southwestern Ontario, where it is considered to be a species-at-risk. Regenerating from plantings at Milne Conservation Area.
<i>Geranium macrorrhizum</i> (zdravets)	L+	Adventive in scrubby woods: Scarborough Bluffs and Vance-Donaldson ESA. Native to southeastern Europe, where it is a valued herb.
<i>Geranium molle</i> (dove's-foot cranesbill)	L+	Adventive near Scarborough Bluffs, unmaintained turf. Native to southern Europe.
<i>Geranium sibiricum</i> (Siberian crane's bill)	L+	Adventive from old gardens at Lake St. George Field Centre. Native to Eurasia.
<i>Lonicera caerulea</i> (blue fly-honeysuckle)	L+	Adventive on former nursery property south of Clarendon. Native to Eurasia and some varieties to western North America.
<i>Ranunculus lingua</i> (greater spearwort)	L+	Adventive on former nursery property south of Clarendon. Native to Europe.
<i>Salvia coerulea</i> (anise-scented sage)	L+	On rubble shoreline Scarborough Bluffs west of Rosetta McClain Gardens, from which it likely escaped. Native to South America.
<i>Salvia sclarea</i> (clary sage)	L+	Adventive on former nursery property south of Clarendon. Native to Europe.
<i>Solanum melongena</i> (eggplant)	L+	By storm water outfall, Scarborough Bluffs.

3.1.1 Extirpated and Rediscovered Flora Species

One species of plant in TRCA was thought to have been extirpated based on reasonable evidence, but was re-located again and so has been added back to the list of extant flora. Another species was tentatively re-located but would require further investigation for confirmation. And a third species which had been of uncertain occurrence in the TRCA jurisdiction (LU) was confirmed to be present (Table 12).

Table 12. Extirpated and rediscovered flora species

Species	L-rank assigned	Status
<i>Anthoxanthum nitens</i> ssp. <i>nitens</i> (sweet grass)	L1	Found at Bloomington Wetlands: previous record unspecified location pre-1913 and found at Mono Cliffs outside TRCA in 1980s-90s.
<i>Crataegus coccinioides</i> (conspecta hawthorn)	L2	Listed as historic in Toronto. Large and distinctly handsome hawthorn. Observed in upper Carruthers Watershed with a fruiting fall specimen collected but a spring flowering collection would be desirable for final confirmation.
<i>Brachyelytrum aristosum</i> (northern short-husk)	L2	Differentiated from bearded short-husk (<i>B. erectum</i>) in recent years. Confirmed records at Bloomington Wetlands and the Toronto Hunt Club.

Sweet grass, the fragrant grass that is used by First Nations in their ceremonies, has not been seen in TRCA since at least 1913 (Figure 3). It was rediscovered at Bloomington Wetland in 2016.



Figure 3. Sweet grass, rediscovered in 2016 (photo TRCA, 2016)

Northern short-husk, another grass, is distinguished by subtle fruit characteristics from bearded short-husk. Until 2014, the two species were not distinguished from each other in TRCA. In 2014, bearded short-husk was positively identified in the Rouge Park. In 2016, northern short-husk was

positively identified at the Toronto Hunt Club and Bloomington Wetland. Therefore we have both species in our jurisdiction.

3.1.2 Declines and Increases in Flora

In general, we recorded more increases than decreases in grid-square counts since the last Local Occurrence scoring update was performed (Table 13). Over 700 species recorded an increase in counts, though most of these were by just 1 to 5 squares. This is not so much a function of increased plant populations but of two other factors: a more thorough collation of plant species lists across the jurisdiction into the grid-square count, and the continuing benefits of an increase in surveyed area.

Table 13. Number of flora species that show changes in number of occurrences across the region between the two inventory periods, 2001-2015 and 2002-2016

	Change in Square Count Between Inventory Periods	Number of Species	Total
Increase	+26 to 31	0	798
	+21 to 25	0	
	+16 to 20	0	
	+11 to 15	0	
	+6 to 10	7	
	+1 to 5	767	
	New, rediscovered, or newly recognized	24	
No change	0	964	964
Decrease	-1 to -5	116	116
	-6 to -10	0	
	-11 to -15	0	
	-16 to -20	0	
	-21 to -25	0	
	-26 to -31	0	

Site species lists now include the annual records from the various long-term monitoring plots spread across the jurisdiction (forest vegetation plots and wetland vegetation transects as of 2015 and now meadow vegetation plots as of 2016). The plots provide a stable source of records every year and thus complement the more variable biological inventory and assessment data which covers different locations and differing amounts of territory every year. The results were a more accurate assessment of the abundance of the flora species in the TRCA jurisdiction and a reduction in the bias toward increased rarity and sensitivity caused by under-reporting or overlooked records.

One hundred sixteen species show a reduced numbers of grid squares: in all cases modest (i.e. a reduction of 1 to 5).

Some rare species seem to have shown recent declines but still have enough records less than 15 years old that the decline has not yet shown up in the grid-square count or only as a slight change. This seems to be the case with club-mosses such as ground-pine (*Dendrolycopodium dendroideum*) and ground-cedar (*Diphasiastrum digitatum*). There are far more records for these species before 2008 than after. Subtle changes in soil nutrient levels such as increases in nitrate from atmospheric deposition may be involved, along with disruption of the humus layer by earthworms; invasive species and deer browse for some.

3.1.3 Changes in Flora L-rank

A total of 22 flora species had a change of rank since the last update a year ago; all of these experienced a change of one rank level (Table 14). Sixteen species had a decrease in rank, while 6 had an increase. The preponderance of decreases is largely due to improved coverage leading

to more records, therefore lower scores for Local Occurrence and thus a lower total score and rank. For example, new or refreshed locations were found for hairy aster (*Symphotrichum pilosum* var. *pilosum*) and smaller evening-primrose (*Oenothera parviflora*). Hairy aster was found along a roadside near Bloomington Wetland in 2016, yielding a new location for this species. Its rank dropped from L2 to L3, meaning that it is still a species of regional conservation concern. Smaller evening-primrose was found at a couple of locations along the Scarborough Shoreline and inland, increasing its grid square count. Its L-rank dropped from L3 to L4, so is now of concern in the urban zone.

Table 14. Number of flora species that show changes in L-rank across the region between the two inventory periods, 2000-2014 and 2001-2015

	Change in L-rank Between Inventory Periods	Number of Species	Total
Decrease	L4 to L5	5	16
	L3 to L4	7	
	L2 to L3	2	
	L1 to L2	2	
Increase	L5 to L4	0	6
	L4 to L3	1	
	L3 to L2	4	
	L2 to L1	1	

The six species that showed an increase in L-rank (and thus of conservation concern) are listed in Table 15. Increases in rank are in all cases due to declining records and/or populations. For example, ground-cedar (*Diphasiastrum digitatum*), burn-weed (*Erechtites hieracifolia*) and spotted St. John's-wort (*Hypericum punctatum*) are generally associated with higher quality young forests with openings. These records were largely in the early 2000s and are being seen less frequently. Some of these flora records are now becoming stale-dated, i.e. over 15 years old. This does not mean that these populations are extirpated, only that they cannot be included in the score and rank assessment. Vegetation surveys of younger or semi-open wooded areas in the TRCA tend to show a preponderance of invasive species such as dog-strangling vine (*Cynanchum rossicum*) or fast-growing generalist native species such as enchanter's nightshade (*Circaea canadensis*) or graceful sedge (*Carex gracillima*).

Table 15. Flora species showing an increase in L-rank

Species	L-rank Change	Notes
<i>Abies balsamea</i> (balsam fir)	L4 to L3	Restricted to headwater swamps and adjacent forests in the northern and eastern parts of TRCA, seems to be showing slight decline in distribution (reduction of 1 grid-square)
<i>Diphasiastrum digitatum</i> (ground-cedar)	L3 to L2	Slightly reduced number of grid-square occurrences (-1), populations seem to be declining, may be due to changes in forest ground flora to fast-growing weedier species
<i>Erechtites hieracifolia</i> (burn-weed)	L3 to L2	Rare. The 2001 record from Albion Hills is now more than 15 years old, so decline in grid square count (-1).
<i>Hypericum punctatum</i> (spotted St. John's-wort)	L3 to L2	Reduction of number grid-square occurrences by 2, definitely seeing it less often, reason unknown
<i>Moneses uniflora</i> (one-flowered pyrola)	L2 to L1	Restricted to conifer seepage swamps; reduction in number of grid square occurrences by 1
<i>Viburnum opulus ssp. trilobum</i> (American highbush cranberry)	L3 to L2	Restricted to high quality wetlands on Oak Ridges Moraine, mainly in Caledon. Getting overtaken by European subspecies. Reduction by 1 grid square

The fully revised version of TRCA’s list of vascular plants, together with updated L-ranks and scores is presented in Appendix 1.

3.2 Fauna Species

In 2016, two new species were added to the regional terrestrial fauna list. A pair of American wigeon (*Anas americana*) were observed in suitable habitat until at least the middle of June. The second new species is Spiny Softshell (*Apalone spinifera*), a turtle species provincially listed as threatened. This animal was observed on one occasion basking however one previous sighting had been made – perhaps of the same individual – in the same location in 2015. It should be noted that, as with other sightings of rare herps in the region, there is some concern over the origins of this particular individual. It is possible that the animal had been intentionally transplanted to the area although experts are agreed that the individual is indeed the species that occurs in Ontario, primarily in the southwestern part of the province.



Figure 4. Spiny softshell turtle, large individual observed in mid-June, 2016 (photo TRCA, 2016).

The occurrence of a particular new species within a region in any one year may simply indicate an anomaly in the species’ normal distribution. However, it is important to maintain a formal documentation of such records since future inventories may discover patterns in such “anomalies” leading eventually to the establishment of new populations outside of the normal, expected range.

3.2.1 Extirpated Fauna Species

The analysis of grid square occurrence for the period 2007 to 2016 did not indicate any candidates that might be considered newly locally extirpated. The criterion for such a change in official status is that the species has not been reported as a possible breeding fauna species from anywhere in the region over the previous 10 years. In the recent past, such status changes have included a couple of bat species (hoary bat, *Lasiurus cinereus*; and red bat, *Lasiurus borealis*) that, given the recent increase in interest in these taxa (including the installation of bat detection equipment at a few sites throughout the region), it is hoped will be re-instated in due

course. It should be understood that the fauna inventories conducted by the TRCA are primarily concerned with relatively easily detectable taxa: birds and frogs. The TRCA's understanding of the status of other taxa (including bats) is gradually improving. There is a need for targeted searches for many of the non-avian species within the region, or at least the need to be cautious about assigning "extirpated" status to any such cryptic species. Nevertheless, the 10 year threshold is useful for flagging species that might otherwise be overlooked.

3.2.2 Declines and Increases in Fauna

As suggested earlier, since there is no consistency in the number of grid squares inventoried in any one year, minor fluctuations in the grid square counts for each species should be expected. Table 16 details the changes in grid square counts resulting from the most recent local occurrence update (not including possible extirpations or new species).

Table 16. Number of fauna species that show changes in grid-square count across the region between the two inventory periods, 2001-2010 and 2007-2016

	Change in Square Count Between Inventory Periods	Number of Species	Total
increase	+14	2	109
	+12	1	
	+10	1	
	+8	1	
	+7	4	
	+6	16	
	+5	10	
	+4	13	
	+3	19	
	+2	21	
	+1	21	
no change	0	38	38
decrease	-1	19	64
	-2	15	
	-3	15	
	-4	7	
	-5	1	
	-6	4	
	-7	2	
	-11	1	

As suggested above, many of the apparent declines shown in this current period may be a result of the new survey period (2007 to 2016) having dropped earlier years that had more extensive coverage (e.g. 2003). However, this is not supported by the high proportion of L5 bird species (20 of 25) which have shown significant increases of at least 4 regional grid squares. Since none of these common species are indicated as having shown any declines it seems reasonable to suggest that where a larger decline has been registered then such declines probably reflect real changes in status for those species. Likewise, it also follows that – again, given the preponderance of apparent increases in the L5 bird community – many of the smaller increases are perhaps not a true reflection of changes in those species' status.

If only the changes greater than 4 grid squares (i.e. greater than 8% of the regional grid) are considered there are some seemingly significant results. Table 17 lists the 63 species that appear to have undergone such significant changes in distribution across the region over the past decade. Several of the changes fit expected patterns.

Table 17. List of fauna species registering greater than + or – 4 change in the count of grid square occurrences

Species (common name)	Scientific Name	Change in Square Count
bobolink	<i>Dolichonyx oryzivorus</i>	-11
American woodcock	<i>Scolopax minor</i>	-7
black-and-white warbler	<i>Mniotilta varia</i>	-7
black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	-6
northern harrier	<i>Circus cyaneus</i>	-6
sharp-shinned hawk	<i>Accipiter striatus</i>	-6
white-throated sparrow	<i>Zonotrichia albicollis</i>	-6
chestnut-sided warbler	<i>Setophaga pensylvanica</i>	-5
“chimney” crayfish	<i>Fallicambarus fodiens</i>	-4
eastern meadowlark	<i>Sturnella magna</i>	-4
golden-winged warbler	<i>Vermivora chrysoptera</i>	-4
green-winged teal	<i>Anas crecca</i>	-4
least flycatcher	<i>Empidonax minimus</i>	-4
northern mockingbird	<i>Mimus polyglottus</i>	-4
sedge wren	<i>Cistothorus platensis</i>	-4
American crow	<i>Corvus brachyrhynchos</i>	+4
brown creeper	<i>Certhia americana</i>	+4
downy woodpecker	<i>Picoides pubescens</i>	+4
great crested flycatcher	<i>Myiarchus crinitus</i>	+4
mallard	<i>Anas platyrhynchos</i>	+4
map turtle	<i>Graptemys geographica</i>	+4
northern cardinal	<i>Cardinalis cardinalis</i>	+4
peregrine falcon	<i>Falco peregrinus</i>	+4
pine siskin	<i>Carduelis pinus</i>	+4
purple martin	<i>Progne subis</i>	+4
red-backed salamander	<i>Plethodon cinereus</i>	+4
red-tailed hawk	<i>Buteo jamaicensis</i>	+4
striped skunk	<i>Mephitis mephitis</i>	+4
American redstart	<i>Setophaga ruticilla</i>	+5
belted kingfisher	<i>Megaceryle alcyon</i>	+5
blue jay	<i>Cyanocitta cristata</i>	+5
Canada goose	<i>Branta canadensis</i>	+5
common grackle	<i>Quiscalus quiscula</i>	+5
deer mouse	<i>Peromyscus maniculatus</i>	+5
eastern bluebird	<i>Sialia sialis</i>	+5
milksnake	<i>Lampropeltis triangulatum</i>	+5
warbling vireo	<i>Vireo gilvus</i>	+5
wild turkey	<i>Meleagris gallopavo</i>	+5
American goldfinch	<i>Carduelis tristis</i>	+6
black-capped chickadee	<i>Parus atricapillus</i>	+6
brown-headed cowbird	<i>Molothrus ater</i>	+6
cedar waxwing	<i>Bombycilla cedrorum</i>	+6
cliff swallow	<i>Petrochelidon pyrrhonota</i>	+6
eastern chipmunk	<i>Tamias striatus</i>	+6
eastern gartersnake	<i>Thamnophis sirtalis</i>	+6
grey squirrel	<i>Sciurus carolinensis</i>	+6
merlin	<i>Falco columbarius</i>	+6
mourning dove	<i>Zenaida macroura</i>	+6
purple finch	<i>Haemorhous purpureus</i>	+6
red-bellied snake	<i>Storeria occipitomaculata</i>	+6
ruby-throated hummingbird	<i>Archilochus colubris</i>	+6
red-winged blackbird	<i>Agelaius phoeniceus</i>	+6
snapping turtle	<i>Chelydra serpentina</i>	+6
song sparrow	<i>Melospiza melodia</i>	+6
American robin	<i>Turdus migratorius</i>	+7
hooded merganser	<i>Lophodytes cucullatus</i>	+7

Species (common name)	Scientific Name	Change in Square Count
orchard oriole	<i>Icterus spurius</i>	+7
raccoon	<i>Procyon lotor</i>	+7
red squirrel	<i>Tamiasciurus hudsonicus</i>	+8
osprey	<i>Pandion haliaetus</i>	+10
common raven	<i>Corvus corax</i>	+12
red-bellied woodpecker	<i>Melanerpes carolinus</i>	+14
turkey vulture	<i>Cathartes aura</i>	+14

Fifteen species showed declines of 4 or more grid squares in 2016. The largest decline (a decrease of 11 grid square occurrences since the 2001 to 2010 baseline period) was shown by bobolink, with its fellow open country obligate, eastern meadowlark, showing a smaller but still significant decline (minus 4 grid squares). Two other open country obligates – northern harrier and sedge wren – are included in this list of declining species. The decline in this suite of species is in keeping with declines noted at the continental level, the same regional decline having been noted in the 2015 report on local occurrence, and is likely in part caused locally by the continued loss of marginal agricultural land in the rural zone. Such “marginal” agricultural land, perhaps only intermittently farmed, is often adjacent to or associated with wetland habitats (favoured by species such as sedge wren and the recently locally extirpated Wilson’s snipe, *Gallinago delicata*). Furthermore, being open country birds, all of these species nest either on the ground or low in shrub vegetation and as such would be highly susceptible to ground-borne disturbances within their habitats.

Eight other species showing significant declines in the 2016 analysis are more associated with forest or forest-edge habitats, and four of these are also ground-nesting: black-and-white warbler, white-throated sparrow, golden-winged warbler and American woodcock. The latter species can still be found nesting in shrubby edge-habitats in various corners of the urban landscape, e.g. along hydro corridors and on patches of “waste” ground in industrial and commercial zones. In these areas, the impacts associated with a residential urban landscape are somewhat reduced (e.g. fewer housecats). Likewise, the one wetland species showing a significant decline –green-winged teal – is a ground-nesting species that requires undisturbed meadow habitat in the vicinity of wetlands.

The inclusion of northern mockingbird in this list of declining species is a little surprising given this species’ local history (throughout the 1990s and 2000s) of expansion into the urban and industrial landscapes. It is possible that the initial incursion and rapid population growth witnessed through the earlier decades has stabilized and settled at what may now become the new normal capacity. The species’ new L-ranking (raised from L5 to L4) flags the species as one that will be followed a little more closely – L4 species are point mapped at every occurrence within the urban landscape whereas L5 species are simply reported as present or absent in each 10 km grid square.

For species showing a significant increase in grid square occurrence the total of 48 species seems very encouraging. However, if only the bird species of regional conservation concern (species ranked L1 to L3) are considered, a very different picture emerges. Of the 14 bird species showing significant decline only 1 (northern mockingbird) is not ranked as a species of regional conservation concern – 7.1 %. On the other hand, of the 36 bird species showing significant increases, 29 species are ranked as L4 or L5 – 80.6%. The only ground-nesting species in the short list of 7 increasing bird species of conservation concern is wild turkey: a large, aggressive species that was re-introduced into a modern landscape which appears to favour the success of this species. Some naturalists are now concerned that in fact the thriving turkey population may be at the expense of other native fauna species; wild turkeys supplement their diet with amphibians (frogs and salamanders) and small snakes – both taxa which are already considered to be at some risk in the modern south and central Ontario landscape.

The regional increase observed in the other six species is, nevertheless, encouraging. Several species showing significant increases in regional occurrence are easy to explain. Merlins continue to maintain a foothold in the urban portion of the region, along with several pairs suspected of breeding in the maturing plantations throughout the rural zone. The population of the other raptor in the list – the osprey – is likely responding to a combination of improved water quality in fish habitat across the region, and a delayed recovery from the banning of DDT from the 1970s onwards. Other species at the top of the food chain such as the L4 ranked common raven are probably benefiting in the same way.

Particularly encouraging is the continued increase in the number of American redstarts to be found in more and more suburban locations, primarily in areas of natural cover associated with rivers and creeks. An impressive local example of this species' increase has been documented at G Ross Lord Reservoir where in 2004 there was just one probably unmated second year male redstart reported, and then in the 2016 repeat inventory of the same area there was a total of 8 territories – mostly held by experienced “after second year” males. This same scenario appears to have been repeated in other locations across the southern half of the region.

The inclusion of brown creeper in the list of increasing fauna species of conservation concern is very interesting; this typically high quality forest denizen has been reported several times in recent years from some of the more urbanized forest fragments and lower-reach riparian corridors – Highland Creek, Rouge watershed, and Carruthers Creek. The Ontario Breeding Bird Atlas (Cadman, 2007) did not indicate any population increase for southern Ontario or Central Ontario, so if the regional increase indicated by the TRCA inventories is real, we are witnessing a change in the ecology of this species perhaps similar to that postulated for winter wrens in the same region (the apparent local increase in winter wrens has been commented on in earlier versions of this report, with more territories being located in urban ravines).

In addition to the increasing bird species of conservation concern there are five herp species that are indicated as showing significant increases in this current comparison. This is rather surprising given the general understanding among the scientific community that herpetofauna are in an overall decline. For four of the five species (all except red-backed salamander) it seems most likely that the apparent increase is a result of the increase in the number of road-kill surveys that have taken place across the region. This is leading to a better understanding of the true regional distribution of these animals, but at the same time is revealing just how big a threat road-mortality is for these species. The grid square count for red-backed salamander has increased by four squares which may be attributed to incidental records being reported from other field staff.

Of the 36 bird species showing a regional increase of greater than 4 grid squares, 14 of these are also undergoing an overall positive continent-wide population trend; however, 13 are showing change in the opposite direction according to the USGS population trend analysis. Meanwhile, of the 13 bird species showing local declines greater than 4 grid-squares, only 3 of these species are not listed by the USGS as showing similar declines at the continent-wide level (note that American woodcock is one of very few species not assessed by the USGS trend analysis): sharp-shinned hawk, sedge wren and green-winged teal. This latter high degree of agreement between the two analyses assessing declining bird populations is encouraging as regards the efficacy of the TRCA's breeding bird inventory and the validity of the fauna database.

3.2.3 Changes in Fauna L-rank

A total of 10 species showed a change in L-rank – note that L1 is considered the “highest rank”, while L5 is the “lowest rank”. Nine species showed a slip to the next lower L-rank, while just 1 species climbed to the next higher rank (Tables 18 and 19). Several of these changes occurred with species that had already undergone fairly recent changes in L-rank – species whose total scores are on the cusp between two ranks, and therefore only a very minor change can tip that species from one rank to another, e.g. by a grid square occurrence increase from 20 to 21 squares, resulting in a slightly lower point score for Local Occurrence and then potentially a change in rank.

Table 18. Number of fauna species that show changes in L-rank across the region between the two inventory periods, 2001-2010 and 2007-2016

	Change in L-rank Between Inventory Periods	Number of Species	Total
Decrease	L4 to L5	0	9
	L3 to L4	6	
	L2 to L3	3	
	L1 to L2	0	
Increase	L5 to L4	1	1
	L4 to L3	0	
	L3 to L2	0	
	L2 to L1	0	

Table 19. Fauna species showing a change in L-rank

Species	Change	Notes
northern mockingbird	L5 to L4	A relative newcomer to the Toronto landscape (towards the end of the last century), it seems likely that the species is still finding its local population capacity. For the moment, given an L4 rank, this species becomes a Species of Urban Concern.
American redstart	L3 to L4	A species on the borderline between L4 and L3. This adjustment away from a Species of Regional Conservation Concern seems appropriate given the continuing upward trend in local populations, especially within the urban and suburban landscapes.
bobolink	L2 to L3	Given this meadow species continuing decline this change in rank seems counter-intuitive. Likely a reflection of inventory coverage – the agricultural land in the north Carruthers watershed holds relatively good numbers of this species, and this area was inventoried in 2016 for the first time in over a decade (an increase from 19 to 21 regional grid squares).
brown creeper	L3 to L4	Recent years have seen this forest species occurring a little more frequently in forest habitats and ravines in the urban and suburban landscape (an increase from 17 to 21 regional grid squares). It may be undergoing a similar change in ecology to that observed over the past decade in winter wren (<i>Troglodytes hyemalis</i>) a species similarly once associated only with higher quality rural forest habitats.
double-crested cormorant	L2 to L3	Given the discovery of small nesting populations at two new locations in the region (G Ross Lord and Humber Marshes) the local occurrence score for this colonial species has dropped, consequently the L-rank has also dropped. Still a Species of Regional Conservation Concern.
eastern screech-owl	L3 to L4	Another species whose total score lies on the threshold between L3 and L4, and therefore any slight change in the number of grid squares/local occurrence score can tip the species either way. The species attained L3 status in 2015 but additional records in 2016 have reinstated the species at L4, which seems more appropriate given the species' relative abundance in the city ravine network.
field sparrow	L3 to L4	As with the previous species, field sparrow scores on the threshold between L3 and L4. The presence of the species as a potential nesting species at Tommy Thompson Park in 2016 was enough to swing the species back to L4 status after moving to L3 in 2015. Note that as a meadow obligate, this species is being followed closely since many other meadow species are currently showing considerable continental declines.
least flycatcher	L3 to L4	This species was moved from L4 to L3 in 2013, but several new records over the past couple of seasons indicates that it is still a relatively frequent nester in the region. There are particularly good numbers nesting at Tommy Thompson Park.
marsh wren	L2 to	This species was likewise moved only recently (2015) to L2 status,

	L3	but certainly the 2016 season saw a slight increase in occurrence in wetland locations that the species uses as nesting habitat, enough of an increase to push the species back to L3 status. Either way, the species remains a Species of Regional Conservation Concern.
pine siskin	L3 to L4	Another species whose total score lies at the threshold between L3 and L4 status. The maturation of pine plantations throughout the region's forests may see further increase in occurrences of this generally rather irruptive species whose numbers are very closely tied to the cone crop throughout its range.

None of the changes in rank listed in Table 18 are particularly significant; especially given the fact that the majority of these changes are simply a reversal of very recent (2013 and 2015) changes in the opposite direction.



Figure 5. Eastern Screech-owl – frequently encountered throughout City ravines and along the forested parts of the Scarborough shoreline - regains its L4 status after a brief consideration as L3 (2015) (photo TRCA, 2016).

The only change that is at odds with TRCA staff knowledge and understanding is the downgrading of bobolink from L2 to L3, however, the species still retains its status as a Species of Regional Conservation Concern. In the baseline decade of 2001 to 2010, this species was registered in 32 of the 44 regional grid squares; in the current decade, the species has been registered in 21 grid squares. This is a significant local decline (-11 squares), however, in 2015 the occurrence (i.e. applied to the years 2006 to 2015) was at 19 grid squares, which acquires 1 point for Local Occurrence, as opposed to the zero points assigned to species occurring in more than 20 grid squares. Thus the species has dropped back down to the L3 rank that it held until 2013. It is possible that this very recent small increase in Local Occurrence score is more indicative of the recent upsurge of interest in meadow habitats and the internationally declining species associated with them. In such an instance, where the resulting L-rank is at odds with local expert knowledge, the species will be flagged in all data mapping exercises in the hopes that any local changes in population status are promptly noted.

Overall, despite the odd anomaly, the ranks and scores are in agreement with the published nation-wide trends for breeding birds. On the non-avian front there have been no changes in the L-ranks in this most recent update of the list of TRCA’s breeding vertebrate fauna. As should be expected, the changes in grid-square totals between the first inventoried period, 2001 to 2010, and the first update (2004 to 2013) were more apparent (21 L-rank changes) than those changes between the first update and the second update (2005 to 2014, 5 L-rank changes). The total of 10 species showing a change in L-rank in this current period (2007 to 2016) is a little higher than expected, but is explained in part by the variation in overall regional coverage from one 10 year period to the next. It is hoped that as the reporting and recording of various taxa throughout the region improves – particularly the incidental observations included from staff not involved in the fauna inventories (e.g. the team of Terrestrial Natural Heritage botanists and staff working on other conservation projects) – a better and more consistent understanding of the status of all species will develop. The fully revised version of TRCA’s list of breeding terrestrial fauna, together with updated L-ranks and scores is presented in Appendix 2.

3.3 Vegetation Communities

A total of five new vegetation communities have been added to the database in 2016 (Table 19).

Table 19. New and recently-recognized vegetation communities added to TRCA database

Vegetation Community	ELC Code	L-rank	Notes
Rubble Treed Riparian Bank	BBT2-B	L5	Humber River near Weston Road and Sheppard: stabilized armourstone or rip-rap along a streambank that is now treed.
European Birch Deciduous Plantation	CUP1-e1	L+	Found on old nursery property south of Claremont.
Wild Rice Organic Shallow Marsh	MAS3-5	L2	Found at Bloomington Wetland.
Hay Sedge Sand Barren	SBO1-2	L1	U of T Scarborough College Highland Creek slope.
Grey Dogwood Mineral Thicket Swamp	SWT2-9	L3	Present as inclusion in wetland at Claremont, though likely originally planted.

Two of these were significant natural communities with a high level of conservation concern. The Wild Rice Organic Shallow Marsh was found in a kettle depression at Bloomington Wetland and is dominated by a species that is itself of high conservation concern (*viz.* wild rice *Zizania palustris*, rank L2). The Hay Sedge Sand Barren, at the U of T Scarborough Campus near Highland Creek, was in the original 1998 ELC document, but had not been verified in the TRCA jurisdiction (Lee *et al.* 1998).



Figure 6. Wild Rice Organic Shallow Marsh community observed at Bloomington Wetland (photo: TRCA, 2016)

One community, Grey Dogwood Mineral Thicket Swamp, is also on the original 1998 list but the example found at Claremont likely resulted from old shrub plantings. The other two communities are definitely of anthropogenic planted origin.

3.3.1 Declines and Increases in Vegetation Communities

There appears to be a neutral to slightly positive trend in grid-square counts for vegetation communities, following the same pattern as for flora species. However, this is only the second assessment using a 15-year record (2002-2016) for vegetation communities mapped according to our current ELC protocol. Thus any results cannot be discussed in a detailed, quantitative fashion.

A few communities such as Fresh-Moist White Birch – Poplar Coastal Mixed Forest (FOM8-A) probably still occur on Toronto Island, but the site hasn't been surveyed since 2000, before the current recording period of 2002-2016. On the other hand, numerous communities have only been added to the database in recent years (including 5 of them in 2016 – see previous Section 3.3). Any recently-designated ELC communities (added less than 15 years ago) could still be accumulating a net gain of records each field season.

3.3.2 Changes in Vegetation Community L-rank

Eight communities showed a decrease in L-rank (i.e. reduced sensitivity) and four showed an increase (increased sensitivity). Those that have increased are described below (Table 20). At this point, these increases can be ascribed to corrections in calculation and perhaps year-to-year variation in field site characteristics as noted below.

Table 20. Vegetation communities showing an increase in L-rank

Vegetation Community	ELC Code	L-rank change	Notes
White Cedar – Conifer Organic Mixed Swamp	SWM4-1	L4 to L3	Decrease in grid-square count (-2), possibly due to 2016 sites having less of this community than the equivalent set of sites in the 2001 season
Mixed Oak – Pine Tallgrass Savannah	TPS1-2A	L2 to L1	Slight correction in score calculation for some tall-grass oak communities resulted in rank increase
Mixed Oak – Pine Tallgrass Woodland	TPW1-A	L2 to L1	Slight correction in score calculation for some tall-grass oak communities resulted in rank increase
Dry Black Oak – Pine Tallgrass Savannah	TPS1-2	L2 to L1	Slight correction in score calculation for some tall-grass oak communities resulted in rank increase

The fully revised version of TRCA’s list of vegetation communities, together with updated L-ranks and scores is presented in Appendix 3.

4. References

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Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
	Forest					
FOC1-2	Dry-Fresh White Pine (- Red Pine) Coniferous Forest	13.4	3.5	2.0	5.5	L3
FOC1-a	Dry-Fresh Scots Pine Coniferous Forest	2.9	4.0	0.0	4.0	L+
FOC2-2	Dry-Fresh White Cedar Coniferous Forest	112.4	2.5	2.0	4.5	L4
FOC3-1	Fresh-Moist Hemlock Coniferous Forest	65.4	2.5	2.0	4.5	L4
FOC3-A	Fresh-Moist Hemlock - White Pine Coniferous Forest	44.9	3.0	2.0	5.0	L3
FOC4-1	Fresh-Moist White Cedar Coniferous Forest	652.3	2.0	2.0	4.0	L4
FOC4-2	Fresh-Moist White Cedar - Hemlock Coniferous Forest	90.0	2.5	2.0	4.5	L4
FOC4-3	Fresh-Moist White Cedar - Balsam Fir Coniferous Forest	3.6	3.5	2.0	5.5	L3
FOC4-A	Fresh-Moist White Cedar - White Pine Coniferous Forest	79.8	2.5	1.0	3.5	L4
FOM2-1	Dry-Fresh White Pine - Oak Mixed Forest	29.7	3.0	4.0	7.0	L2
FOM2-2	Dry-Fresh White Pine - Sugar Maple Mixed Forest	65.1	2.5	1.0	3.5	L4
FOM2-A	Dry-Fresh White Pine - Hardwood Mixed Forest	91.2	2.5	1.0	3.5	L4
FOM3-1	Dry-Fresh Hardwood Hemlock Mixed Forest	75.5	2.5	3.0	5.5	L3
FOM3-2	Dry-Fresh Hemlock - Sugar Maple Mixed Forest	215.9	2.0	2.0	4.0	L4
FOM3-A	Dry-Fresh Hemlock - Manitoba Maple Mixed Forest	0.4	4.5	0.0	4.5	L4
FOM4-1	Dry-Fresh White Cedar - Paper Birch Mixed Forest	16.3	3.5	2.0	5.5	L3
FOM4-2	Dry-Fresh White Cedar - Poplar Mixed Forest	30.0	3.0	2.0	5.0	L3
FOM4-A	Dry-Fresh White Cedar - Hardwood Mixed Forest	41.8	2.5	1.0	3.5	L4
FOM5-1	Dry-Fresh Paper Birch Mixed Forest	23.6	3.5	2.0	5.5	L3
FOM5-2	Dry-Fresh Poplar Mixed Forest	14.9	3.5	2.0	5.5	L3
FOM6-1	Fresh-Moist Sugar Maple - Hemlock Mixed Forest	689.0	1.5	2.0	3.5	L4
FOM6-2	Fresh-Moist Hemlock - Hardwood Mixed Forest	145.4	2.5	3.0	5.5	L3
FOM7-1	Fresh-Moist White Cedar - Sugar Maple Mixed Forest	143.2	2.5	2.0	4.5	L4
FOM7-2	Fresh-Moist White Cedar - Hardwood Mixed Forest	494.7	1.5	2.0	3.5	L4
FOM8-1	Fresh-Moist Poplar Mixed Forest	26.3	3.0	2.0	5.0	L3
FOM8-2	Fresh-Moist Paper Birch Mixed Forest	33.0	3.0	2.0	5.0	L3
FOM8-A	Fresh-Moist Poplar - White Birch Coastal Mixed Forest	0.0	5.0	2.0	7.0	L2

Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
FOM8-B	Fresh-Moist Hardwood Mixed Forest	22.8	3.5	2.0	5.5	L3
FOMA-A	Fresh-Moist White Pine - Sugar Maple Mixed Forest	15.7	3.5	2.0	5.5	L3
FOMA-B	Fresh-Moist White Pine - Hawthorn Mixed Forest	3.8	3.5	0.0	3.5	L4
FOD1-1	Dry-Fresh Red Oak Deciduous Forest	31.8	3.0	4.0	7.0	L2
FOD1-2	Dry-Fresh White Oak Deciduous Forest	0.2	5.0	3.0	8.0	L2
FOD1-3	Dry-Fresh Black Oak Deciduous Forest	0.0	5.0	4.0	9.0	L1
FOD1-4	Dry-Fresh Mixed Oak Deciduous Forest	6.1	3.5	4.0	7.5	L2
FOD2-1	Dry-Fresh Oak - Red Maple Deciduous Forest	14.2	3.5	2.0	5.5	L3
FOD2-2	Dry-Fresh Oak - Hickory Deciduous Forest	11.4	3.5	2.0	5.5	L3
FOD2-3	Dry-Fresh Hickory Deciduous Forest	3.4	3.5	2.0	5.5	L3
FOD2-4	Dry-Fresh Oak - Hardwood Deciduous Forest	66.5	2.0	2.0	4.0	L4
FOD3-1	Dry-Fresh Poplar Deciduous Forest	91.9	2.0	2.0	4.0	L4
FOD3-2	Dry-Fresh Paper Birch Deciduous Forest	56.3	2.5	2.0	4.5	L4
FOD4-1	Dry-Fresh Beech Deciduous Forest	35.5	2.5	1.0	3.5	L4
FOD4-2	Dry-Fresh White Ash Deciduous Forest	54.1	2.5	0.0	2.5	L5
FOD4-A	Dry-Fresh Ironwood Deciduous Forest	11.9	3.5	1.0	4.5	L4
FOD4-b	Dry-Fresh Manitoba Maple Deciduous Forest	34.1	2.5	0.0	2.5	L+
FOD4-d	Dry-Fresh Norway Maple Deciduous Forest	19.1	3.5	0.0	3.5	L+
FOD4-e	Dry-Fresh Exotic Deciduous Forest	54.8	2.5	0.0	2.5	L+
FOD4-F	Dry-Fresh Black Cherry Deciduous Forest	11.0	3.5	0.0	3.5	L4
FOD4-G	Dry-Fresh Basswood Deciduous Forest	14.4	3.0	0.0	3.0	L4
FOD4-H	Dry-Fresh Hawthorn - Apple Deciduous Forest	69.1	2.5	0.0	2.5	L5
FOD4-I	Dry-Fresh Red Maple Deciduous Forest	8.9	3.5	2.0	5.5	L3
FOD4-J	Dry-Fresh Pin Cherry Deciduous Forest	0.7	4.5	1.0	5.5	L3
FOD5-1	Dry-Fresh Sugar Maple Deciduous Forest	958.8	1.5	0.0	1.5	L5
FOD5-2	Dry-Fresh Sugar Maple - Beech Deciduous Forest	652.4	1.5	0.0	1.5	L5
FOD5-3	Dry-Fresh Sugar Maple - Oak Deciduous Forest	430.6	1.5	2.0	3.5	L4
FOD5-4	Dry-Fresh Sugar Maple - Ironwood Deciduous Forest	48.2	2.5	0.0	2.5	L5

Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
FOD5-5	Dry-Fresh Sugar Maple - Hickory Deciduous Forest	43.6	3.0	1.0	4.0	L4
FOD5-6	Dry-Fresh Sugar Maple - Basswood Deciduous Forest	71.5	2.5	0.0	2.5	L5
FOD5-7	Dry-Fresh Sugar Maple - Black Cherry Deciduous Forest	94.3	2.5	0.0	2.5	L5
FOD5-8	Dry-Fresh Sugar Maple - White Ash Deciduous Forest	364.9	1.5	0.0	1.5	L5
FOD5-9	Dry-Fresh Sugar Maple - Red Maple Deciduous Forest	9.9	3.5	0.0	3.5	L4
FOD5-10	Dry-Fresh Sugar Maple - Paper Birch - Poplar Deciduous Forest	119.5	2.5	1.0	3.5	L4
FOD5-A	Dry-Fresh Sugar Maple - Hawthorn Deciduous Forest	4.9	3.5	0.0	3.5	L4
FOD5-b	Dry-Fresh Sugar Maple - Norway Maple Deciduous Forest	11.8	3.5	0.0	3.5	L4
FOD6-1	Fresh-Moist Sugar Maple - Ash Deciduous Forest	177.3	2.0	0.0	2.0	L5
FOD6-2	Fresh-Moist Sugar Maple - Black Maple Deciduous Forest	92.9	2.5	1.0	3.5	L4
FOD6-3	Fresh-Moist Sugar Maple - Yellow Birch Deciduous Forest	10.2	3.5	2.0	5.5	L3
FOD6-4	Fresh-Moist Sugar Maple - White Elm Deciduous Forest	27.9	3.0	1.0	4.0	L4
FOD6-5	Fresh-Moist Sugar Maple - Hardwood Deciduous Forest	509.6	1.5	0.0	1.5	L5
FOD7-1	Fresh-Moist White Elm Lowland Deciduous Forest	51.2	2.0	1.0	3.0	L4
FOD7-2	Fresh-Moist Ash Deciduous Forest	323.6	1.0	1.0	2.0	L5
FOD7-3	Fresh-Moist Willow Lowland Deciduous Forest	412.4	1.5	0.0	1.5	L5
FOD7-4	Fresh-Moist Black Walnut Lowland Deciduous Forest	70.4	2.5	1.0	3.5	L4
FOD7-5	Fresh-Moist Black Maple Lowland Deciduous Forest	33.6	2.5	1.0	3.5	L4
FOD7-a	Fresh-Moist Manitoba Maple Lowland Deciduous Forest	459.3	1.5	0.0	1.5	L5
FOD7-b	Fresh-Moist Norway Maple Deciduous Forest	20.9	3.0	0.0	3.0	L+
FOD7-c	Fresh-Moist Exotic Lowland Deciduous Forest	72.9	2.5	0.0	2.5	L+
FOD7-D	Fresh-Moist Red Maple Lowland Deciduous Forest	19.9	3.5	2.0	5.5	L3
FOD7-E	Fresh-Moist Hawthorn - Apple Deciduous Forest	63.7	2.5	0.0	2.5	L5
FOD7-F	Fresh-Moist Basswood Lowland Deciduous Forest	39.3	2.0	1.0	3.0	L4
FOD7-G	Fresh-Moist Black Cherry Deciduous Forest	2.2	4.0	0.0	4.0	L4
FOD8-1	Fresh-Moist Poplar Deciduous Forest	486.6	1.0	0.0	1.0	L5
FOD8-A	Fresh-Moist Cottonwood Coastal Deciduous Forest	17.7	3.5	2.0	5.5	L3
FOD8-B	Fresh-Moist Paper Birch Deciduous Forest	29.4	3.0	0.0	3.0	L4

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ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
FOD9-1	Fresh-Moist Oak - Sugar Maple Deciduous Forest	48.6	2.5	2.0	4.5	L4
FOD9-2	Fresh-Moist Oak - Lowland Maple Deciduous Forest	6.4	3.5	1.0	4.5	L4
FOD9-3	Fresh-Moist Bur Oak Deciduous Forest	18.2	3.5	1.0	4.5	L4
FOD9-4	Fresh-Moist Shagbark Hickory Deciduous Forest	24.8	3.5	2.0	5.5	L3
FOD9-5	Fresh-Moist Bitternut Hickory Deciduous Forest	5.4	3.5	2.0	5.5	L3
FOD9-A	Fresh-Moist Oak - Beech Deciduous Forest	12.0	3.5	2.0	5.5	L3
FOD9-B	Fresh-Moist Oak - Birch Deciduous Forest	0.2	5.0	2.0	7.0	L2
FOD9-C	Fresh-Moist Red Oak - Ash Deciduous Forest	1.1	4.0	0.0	4.0	L3
FOD9-D	Fresh-Moist Beech - Hardwood Deciduous Forest	3.8	4.0	1.0	5.0	L3
CUP1-1	Sugar Maple Deciduous Plantation	3.5	3.5	0.0	3.5	L5
CUP1-2	Basswood Deciduous Plantation	0.3	5.0	0.0	5.0	L5
CUP1-3	Black Walnut Deciduous Plantation	21.0	3.0	0.0	3.0	L5
CUP1-4	Hybrid Poplar Deciduous Plantation	50.3	2.0	0.0	2.0	L5
CUP1-4A	Native Poplar Deciduous Plantation	0.6	4.5	0.0	4.5	L5
CUP1-5	Silver Maple Deciduous Plantation	23.3	3.0	0.0	3.0	L5
CUP1-7	Red (Green) Ash Deciduous Plantation	12.8	3.0	0.0	3.0	L5
CUP1-7A	White Ash Deciduous Plantation	2.1	4.0	0.0	4.0	L5
CUP1-8	Red Oak Deciduous Plantation	17.0	3.0	0.0	3.0	L5
CUP1-A	Restoration Deciduous Plantation	177.7	2.0	0.0	2.0	L5
CUP1-b	Willow Deciduous Plantation	20.3	3.0	0.0	3.0	L5
CUP1-c	Locust Deciduous Plantation	128.5	2.0	0.0	2.0	L+
CUP1-d	Horticultural Deciduous Plantation	29.8	3.0	0.0	3.0	L+
CUP1-E	Paper Birch Deciduous Plantation	2.2	4.0	0.0	4.0	L5
CUP1-e1	European Birch Deciduous Plantation	0.3	5.0	0.0	5.0	L+
CUP1-f	Siberian Elm Deciduous Plantation	2.4	4.0	0.0	4.0	L+
CUP1-g	Apple Deciduous Plantation	32.8	2.5	0.0	2.5	L+
CUP1-g1	Cherry - Plum Deciduous Plantation	0.1	5.0	0.0	5.0	L5
CUP2-1A	Black Walnut - Conifer Mixed Plantation	14.0	3.5	0.0	3.5	L5

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ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
CUP2-A	Restoration Mixed Plantation	380.9	1.5	0.0	1.5	L5
CUP2-b	Black Locust - Conifer Mixed Plantation	23.8	3.0	0.0	3.0	L+
CUP2-c	Norway Maple - Conifer Mixed Plantation	6.9	3.0	0.0	3.0	L+
CUP2-D	Apple - Conifer Mixed Plantation	4.6	3.5	0.0	3.5	L5
CUP2-E	Silver Maple - Conifer Mixed Plantation	13.5	3.0	0.0	3.0	L5
CUP2-f	Hybrid Poplar - Conifer Mixed Plantation	20.6	3.0	0.0	3.0	L5
CUP2-G	Ash - Conifer Mixed Plantation	10.6	3.5	0.0	3.5	L5
CUP2-h	Horticultural Mixed Plantation	32.3	2.5	0.0	2.5	L+
CUP2-I	Red Oak - Conifer Mixed Plantation	7.5	3.5	0.0	3.5	L5
CUP3-1	Red Pine Coniferous Plantation	706.1	1.5	0.0	1.5	L5
CUP3-2	White Pine Coniferous Plantation	492.8	1.5	0.0	1.5	L5
CUP3-3	Scots Pine Coniferous Plantation	238.0	2.0	0.0	2.0	L+
CUP3-4	Jack Pine Coniferous Plantation	54.1	3.0	0.0	3.0	L+
CUP3-5	Tamarack - European Larch Coniferous Plantation	0.2	5.0	0.0	5.0	L5
CUP3-6	European Larch Coniferous Plantation	37.4	3.0	0.0	3.0	L+
CUP3-8	White Spruce - European Larch Coniferous Plantation	6.2	3.5	0.0	3.5	L5
CUP3-8A	White Spruce - Tamarack Coniferous Plantation	3.0	3.5	0.0	3.5	L5
CUP3-9	Norway Spruce - European Larch Coniferous Plantation	6.4	3.5	0.0	3.5	L+
CUP3-A	Restoration Coniferous Plantation	57.8	2.5	0.0	2.5	L5
CUP3-b	Austrian Pine Coniferous Plantation	5.7	3.5	0.0	3.5	L+
CUP3-C	White Spruce Coniferous Plantation	277.0	2.0	0.0	2.0	L5
CUP3-D	Black Spruce Coniferous Plantation	0.7	4.0	0.0	4.0	L5
CUP3-e	Norway Spruce Coniferous Plantation	62.6	2.0	0.0	2.0	L+
CUP3-F	Tamarack Coniferous Plantation	2.1	4.5	0.0	4.5	L5
CUP3-G	White Cedar Coniferous Plantation	98.8	2.0	0.0	2.0	L5
CUP3-H	Mixed Conifer Coniferous Plantation	781.0	1.0	0.0	1.0	L5
CUP3-i	Douglas Fir Coniferous Plantation	1.4	4.5	0.0	4.5	L+
CUP3-j	Colorado Spruce Coniferous Plantation	1.7	4.0	0.0	4.0	L+

Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
	Successional					
CUT1-1	Sumac Deciduous Thicket	136.9	2.0	0.0	2.0	L5
CUT1-2	Serviceberry Deciduous Thicket	0.0	5.0	2.0	7.0	L2
CUT1-3	Chokecherry Deciduous Thicket	1.6	4.0	0.0	4.0	L4
CUT1-4	Grey Dogwood Deciduous Thicket	1.4	4.0	0.0	4.0	L4
CUT1-5	Raspberry Deciduous Thicket	12.9	3.0	0.0	3.0	L4
CUT1-6	Poison Ivy Deciduous Thicket	0.1	5.0	2.0	7.0	L5
CUT1-A1	Native Deciduous Sapling Regeneration Thicket	260.8	2.0	0.0	2.0	L5
CUT1-A2	Native Mixed Sapling Regeneration Thicket	78.6	2.5	0.0	2.5	L5
CUT1-A3	Coniferous Sapling Regeneration Thicket	53.3	2.5	1.0	3.5	L4
CUT1-b	Buckthorn Deciduous Thicket	185.2	2.5	0.0	2.5	L+
CUT1-c	Exotic Deciduous Thicket	189.7	2.0	0.0	2.0	L+
CUT1-D	Round-leaved Dogwood Deciduous Thicket	0.0	4.5	2.0	6.5	L3
CUT1-E	Red Osier Dogwood Deciduous Thicket	56.3	2.5	0.0	2.5	L5
CUT1-F	Silky Dogwood Deciduous Thicket	0.5	4.5	0.0	4.5	L4
CUT1-G	Willow Deciduous Thicket	12.6	3.5	0.0	3.5	L4
CUT1-H	Ninebark Planted Deciduous Thicket	0.05	5.0	0.0	5.0	L5
CUH1-A	Treed Hedgerow	450.3	1.0	0.0	1.0	L5
CUH1-B	Native Shrub - Sapling Hedgerow	26.6	3.0	0.0	3.0	L4
CUH1-c	Buckthorn Hedgerow	71.1	2.5	0.0	2.5	L+
CUH1-d	Exotic Shrub Hedgerow	8.3	3.5	0.0	3.5	L+
CUS1-1	Hawthorn Successional Savannah	218.4	2.0	0.0	2.0	L5
CUS1-2A	White Cedar Successional Savannah	90.7	2.5	1.0	3.5	L4
CUS1-A1	Native Deciduous Successional Savannah	653.1	1.5	0.0	1.5	L5
CUS1-A2	White Pine Successional Savannah	80.6	2.5	1.0	3.5	L4
CUS1-b	Exotic Successional Savannah	294.4	2.0	0.0	2.0	L+
CUS2-A	Rubble Successional Savannah	1.7	4.0	0.0	4.0	L4
CUW1-1	Red Cedar Successional Woodland	1.1	4.5	1.0	5.5	L3

Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
CUW1-A1	White Cedar Successional Woodland	93.9	2.5	1.0	3.5	L4
CUW1-A2	White Pine Successional Woodland	48.1	2.5	1.0	3.5	L4
CUW1-A3	Native Deciduous Successional Woodland	602.4	1.0	0.0	1.0	L5
CUW1-A4	Fresh-Moist Cottonwood Tall Treed Woodland	8.3	3.5	2.0	5.5	L3
CUW1-b	Exotic Successional Woodland	507.6	1.5	0.0	1.5	L+
CUW1-D	Hawthorn Successional Woodland	253.5	2.0	0.0	2.0	L5
CUW2-A	Rubble Successional Woodland	1.1	4.0	0.0	4.0	L4
	Wetland					
SWC1-1	White Cedar Mineral Coniferous Swamp	56.5	2.5	2.0	4.5	L4
SWC1-2	White Cedar - Conifer Mineral Coniferous Swamp	18.0	3.5	2.0	5.5	L3
SWC2-2	Hemlock Mineral Coniferous Swamp	1.4	4.0	2.0	6.0	L3
SWC3-1	White Cedar Organic Coniferous Swamp	81.5	2.5	3.0	5.5	L3
SWC3-2	White Cedar - Conifer Organic Coniferous Swamp	175.8	2.5	3.0	5.5	L3
SWC4-1	Tamarack - Black Spruce Organic Coniferous Swamp	1.2	4.5	4.0	8.5	L1
SWC4-2	Tamarack Organic Coniferous Swamp	0.8	4.5	3.0	7.5	L2
SWC4-A	Tamarack - Balsam Fir - Spruce Organic Coniferous Swamp	4.5	4.0	3.0	7.0	L2
SWCA-A	Hemlock Organic Coniferous Swamp	12.9	3.5	3.0	6.5	L2
SWM1-1	White Cedar - Hardwood Mineral Mixed Swamp	325.0	2.0	2.0	4.0	L4
SWM2-1	Red Maple - Conifer Mineral Mixed Swamp	2.6	4.5	2.0	6.5	L2
SWM2-2	Swamp Maple - Conifer Mineral Mixed Swamp	0.0	5.0	2.0	7.0	L2
SWMA-A	Red (Green) Ash - Hemlock Mineral Mixed Swamp	0.5	4.5	2.0	6.5	L2
SWM3-1	Birch - Conifer Mineral Mixed Swamp	19.2	3.5	2.0	5.5	L3
SWM3-2	Poplar - Conifer Mineral Mixed Swamp	3.6	3.5	2.0	5.5	L3
SWM4-1	White Cedar - Hardwood Organic Mixed Swamp	408.3	2.0	3.0	5.0	L3
SWM5-1	Red Maple - Conifer Organic Mixed Swamp	10.3	3.5	3.0	6.5	L2
SWM5-2	Swamp Maple - Conifer Organic Mixed Swamp	3.4	3.5	3.0	6.5	L2
SWM6-1	Birch - Conifer Organic Mixed Swamp	84.5	2.5	3.0	5.5	L3
SWM6-2	Poplar - Conifer Organic Mixed Swamp	4.3	4.0	3.0	7.0	L2

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SWD1-2	Bur Oak Mineral Deciduous Swamp	4.5	3.5	2.0	5.5	L3
SWD2-1	Black Ash Mineral Deciduous Swamp	40.1	2.5	2.0	4.5	L4
SWD2-2	Red (Green) Ash Mineral Deciduous Swamp	218.0	2.0	2.0	4.0	L4
SWD2-A	White Ash Mineral Deciduous Swamp	4.1	3.5	1.0	4.5	L4
SWD3-1	Red Maple Mineral Deciduous Swamp	17.8	3.5	2.0	5.5	L3
SWD3-2	Silver Maple Mineral Deciduous Swamp	96.0	2.0	2.0	4.0	L4
SWD3-3	Swamp Maple Mineral Deciduous Swamp	75.5	2.5	2.0	4.5	L4
SWD3-4	Manitoba Maple Mineral Deciduous Swamp	11.9	3.0	1.0	4.0	L4
SWD4-1	Willow Mineral Deciduous Swamp	169.1	2.0	1.0	3.0	L4
SWD4-2	White Elm Mineral Deciduous Swamp	26.2	3.0	2.0	5.0	L3
SWD4-3	Paper Birch - Poplar Mineral Deciduous Swamp	119.6	2.0	2.0	4.0	L4
SWD4-4	Yellow Birch Mineral Deciduous Swamp	8.1	3.5	2.0	5.5	L3
SWD4-A	White Birch - Cottonwood Coastal Mineral Deciduous Swamp	10.3	4.0	3.0	7.0	L2
SWD4-b	European Alder Mineral Deciduous Swamp	4.9	3.5	1.0	4.5	L+
SWD5-1	Black Ash Organic Deciduous Swamp	32.1	2.5	3.0	5.5	L3
SWD6-1	Red Maple Organic Deciduous Swamp	30.2	3.0	3.0	6.0	L3
SWD6-2	Silver Maple Organic Deciduous Swamp	33.0	3.0	3.0	6.0	L3
SWD6-3	Swamp Maple Organic Deciduous Swamp	29.4	3.5	3.0	6.5	L2
SWD7-1	Paper Birch - Poplar Organic Deciduous Swamp	32.4	2.5	3.0	5.5	L3
SWD7-2	Yellow Birch Organic Deciduous Swamp	20.9	3.0	3.0	6.0	L3
SWD7-A	Willow Organic Deciduous Swamp	10.9	3.5	2.0	5.5	L3
SWT2-1	Alder Mineral Thicket Swamp	26.2	3.5	1.0	4.5	L4
SWT2-2	Willow Mineral Thicket Swamp	250.2	2.0	2.0	4.0	L4
SWT2-3	Mountain Maple Mineral Thicket Swamp	0.9	4.0	2.0	6.0	L3
SWT2-4	Buttonbush Mineral Thicket Swamp	0.3	4.5	2.0	6.5	L2
SWT2-5	Red-osier Mineral Thicket Swamp	125.5	2.0	2.0	4.0	L4
SWT2-6	Spiraea Mineral Thicket Swamp	2.7	4.0	1.0	5.0	L3
SWT2-8	Silky Dogwood Mineral Thicket Swamp	10.8	3.5	2.0	5.5	L3

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SWT2-9	Grey Dogwood Mineral Thicket Swamp	0.0	5.0	1.0	6.0	L3
SWT2-10	Nannyberry Mineral Thicket Swamp	2.4	4.0	1.0	5.0	L3
SWT2-a	Exotic Mineral Thicket Swamp	4.2	3.5	1.0	4.5	L+
SWT2-B	Winterberry Mineral Thicket Swamp	6.8	3.5	3.0	6.5	L2
SWT3-1	Alder Organic Thicket Swamp	38.9	3.0	3.0	6.0	L3
SWT3-2	Willow Organic Thicket Swamp	50.5	2.5	3.0	5.5	L3
SWT3-3	Mountain Maple Organic Thicket Swamp	0.4	4.5	3.0	7.5	L2
SWT3-4	Buttonbush Organic Thicket Swamp	2.0	4.0	3.0	7.0	L2
SWT3-5	Red-osier Organic Thicket Swamp	14.9	3.0	3.0	6.0	L3
SWT3-7	Winterberry Organic Thicket Swamp	22.3	3.5	4.0	7.5	L2
SWT3-A	Spiraea Organic Thicket Swamp	0.4	4.5	3.0	7.5	L2
SWT3-B	Silky Dogwood Organic Thicket Swamp	2.5	4.5	3.0	7.5	L2
SWT3-c	Exotic Organic Thicket Swamp	0.4	4.5	2.0	6.5	L+
FEO1-2	Slender Sedge Open Fen	0.1	5.0	5.0	10.0	L1
FEO1-4	Bog Buckbean - Sedge Open Fen	0.0	5.0	5.0	10.0	L1
FEO1-5	Beaked Sedge Open Fen	0.2	5.0	5.0	10.0	L1
FES1-4	Leatherleaf - Forb Shrub Fen	0.3	5.0	5.0	10.0	L1
FES1-9	Low White Cedar Shrub Fen	0.6	4.5	5.0	9.5	L1
FES1-A	Willow Shrub Fen	0.0	5.0	4.0	9.0	L1
FES2-A	Willow Shrub Mineral Fen	2.5	4.0	3.0	7.0	L2
FET1-1	Tamarack Treed Fen	0.1	5.0	5.0	10.0	L1
FET1-2	Tamarack - White Cedar Treed Fen	2.8	4.0	5.0	9.0	L1
FET2-A	White Cedar Low Treed Mineral Fen	11.0	3.5	4.0	7.5	L2
FET2-B	White Cedar - Scots Pine Low Treed Mineral Fen	9.8	3.5	4.0	7.5	L2
MAM5-1	Mineral Fen Meadow Marsh	8.6	3.0	3.0	6.0	L3
MAM4-A	Nelson's Scouring Rush - Baltic Rush Coastal Fen	0.7	4.5	5.0	9.5	L1
MAM6-A	Bluejoint - Switchgrass Tallgrass Meadow Marsh	0.0	4.5	4.0	8.5	L1
BOS2-1	Leatherleaf Shrub Kettle Bog	4.5	3.5	5.0	8.5	L1

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BOT2-1	Tamarack - Leatherleaf Treed Kettle Bog	3.6	4.0	5.0	9.0	L1
BOT2-1A	White Pine - Red Maple - Birch - Leatherleaf Treed Kettle Bog	0.5	4.5	5.0	9.5	L1
MAM2-1	Bluejoint Mineral Meadow Marsh	8.2	3.5	2.0	5.5	L3
MAM2-2	Reed Canary Grass Mineral Meadow Marsh	486.7	1.5	1.0	2.5	L+
MAM2-3	Red-top Mineral Meadow Marsh	2.8	4.0	0.0	4.0	L4
MAM2-4	Fowl Manna Grass Mineral Meadow Marsh	2.5	3.5	0.0	3.5	L4
MAM2-5	Narrow-leaved Sedge Mineral Meadow Marsh	15.7	3.0	2.0	5.0	L3
MAM2-6	Broad-leaved Sedge Mineral Meadow Marsh	14.4	3.0	2.0	5.0	L3
MAM2-7	Horsetail Mineral Meadow Marsh	13.3	3.0	2.0	5.0	L3
MAM2-9	Jewelweed Mineral Meadow Marsh	18.1	2.5	1.0	3.5	L4
MAM2-10	Forb Mineral Meadow Marsh	247.7	1.5	1.0	2.5	L5
MAM2-a	Common Reed Mineral Meadow Marsh	38.8	2.0	0.0	2.0	L+
MAM2-b	Purple Loosestrife Mineral Meadow Marsh	11.2	3.5	0.0	3.5	L+
MAM2-C	Rush Mineral Meadow Marsh	9.4	3.5	2.0	5.5	L3
MAM2-D	Rice Cut-Grass Mineral Meadow Marsh	2.4	4.0	0.0	4.0	L4
MAM2-E	Bulrush Mineral Meadow Marsh	4.8	3.0	1.0	4.0	L4
MAM2-f	Miscanthus Mineral Meadow Marsh	1.1	4.0	0.0	4.0	L+
MAM2-g	Cool-season Grass Mineral Meadow Marsh	2.2	4.0	0.0	4.0	L+
MAM3-1	Bluejoint Organic Meadow Marsh	19.0	3.5	3.0	6.5	L2
MAM3-2	Reed Canary Grass Organic Meadow Marsh	10.3	3.5	2.0	5.5	L+
MAM3-3	Rice Cut-grass Organic Meadow Marsh	3.2	3.5	2.0	5.5	L3
MAM3-4	Fowl Manna Grass Organic Meadow Marsh	1.1	4.5	1.0	5.5	L3
MAM3-5	Narrow-leaved Sedge Organic Meadow Marsh	1.3	4.0	3.0	7.0	L2
MAM3-6	Broad-leaved Sedge Organic Meadow Marsh	6.9	3.5	3.0	6.5	L2
MAM3-8	Jewelweed Organic Meadow Marsh	1.5	4.0	2.0	6.0	L3
MAM3-9	Forb Organic Meadow Marsh	14.5	3.0	3.0	6.0	L3
MAM3-a	Common Reed Organic Meadow Marsh	0.2	5.0	2.0	7.0	L+
MAS2-1A	Broad-leaved Cattail Mineral Shallow Marsh	147.3	2.0	1.0	3.0	L4

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MAS2-1b	Narrow-Leaved Cattail Mineral Shallow Marsh	369.4	1.0	0.0	1.0	L+
MAS2-2	Bulrush Mineral Shallow Marsh	5.6	3.0	1.0	4.0	L4
MAS2-3	Narrow-leaved Sedge Mineral Shallow Marsh	3.0	3.5	2.0	5.5	L3
MAS2-4	Broad-leaved Sedge Mineral Shallow Marsh	12.5	3.0	2.0	5.0	L3
MAS2-6	Threesquare Mineral Shallow Marsh	0.0	5.0	1.0	6.0	L3
MAS2-7	Bur-reed Mineral Shallow Marsh	8.9	3.0	2.0	5.0	L3
MAS2-8	Rice Cut-grass Mineral Shallow Marsh	5.7	3.5	1.0	4.5	L4
MAS2-9	Forb Mineral Shallow Marsh	15.1	2.5	1.0	3.5	L4
MAS2-a	Common Reed Mineral Shallow Marsh	24.1	2.5	0.0	2.5	L+
MAS2-b	Purple Loosestrife Mineral Shallow Marsh	3.8	3.5	0.0	3.5	L+
MAS2-C	Horsetail Mineral Shallow Marsh	2.1	4.0	1.0	5.0	L3
MAS2-d	Reed Canary Grass Mineral Shallow Marsh	41.3	2.5	1.0	3.5	L+
MAS2-e	Giant Manna Grass Mineral Shallow Marsh	1.2	4.5	1.0	5.5	L+
MAS2-F	Sweet Flag Mineral Shallow Marsh	0.1	5.0	1.0	6.0	L3
MAS2-G	Manna Grass Mineral Shallow Marsh	3.5	3.5	1.0	4.5	L4
MAS2-H	Unvegetated Mineral Vernal Pool	0.04	5.0	2.0	7.0	L2
MAS3-1A	Broad-leaved Cattail Organic Shallow Marsh	102.6	2.5	3.0	5.5	L3
MAS3-1b	Narrow-leaved Cattail Organic Shallow Marsh	23.3	3.0	1.0	4.0	L+
MAS3-2	Bulrush Organic Shallow Marsh	3.4	3.5	3.0	6.5	L2
MAS3-3	Narrow-leaved Sedge Organic Shallow Marsh	0.3	5.0	3.0	8.0	L2
MAS3-4	Broad-leaved Sedge Organic Shallow Marsh	1.4	4.0	3.0	7.0	L2
MAS3-5	Wild Rice Organic Shallow Marsh	1.2	4.5	3.0	7.5	L2
MAS3-7	Bur-reed Organic Shallow Marsh	2.1	4.0	3.0	7.0	L2
MAS3-8	Rice Cut-grass Organic Shallow Marsh	0.5	4.0	3.0	7.0	L2
MAS3-9	Common Reed Organic Shallow Marsh	0.5	4.0	2.0	6.0	L+
MAS3-10	Forb Organic Shallow Marsh	3.3	3.0	3.0	6.0	L3
MAS3-11	Calla Lily Organic Shallow Marsh	1.1	4.5	3.0	7.5	L2
MAS3-12	Swamp Loosestrife Organic Shallow Marsh	2.1	4.0	3.0	7.0	L2

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MAS3-a	Purple Loosestrife Organic Shallow Marsh	4.4	3.5	2.0	5.5	L+
MAS3-B	Horsetail Organic Shallow Marsh	0.4	4.5	3.0	7.5	L2
MAS3-C	Manna Grass Organic Shallow Marsh	3.6	3.5	3.0	6.5	L2
MAS3-d	Reed Canary Grass Organic Shallow Marsh	2.1	4.0	2.0	6.0	L+
MAS3-E	Unvegetated Organic Vernal Pool	0.0	5.0	2.0	7.0	L2
MAS3-f	Giant Manna Grass Organic Shallow Marsh	0.2	5.0	0.0	5.0	L+
	Aquatic					
SAS1-1	Pondweed Submerged Shallow Aquatic	91.0	2.0	2.0	4.0	L4
SAS1-2	Waterweed Submerged Shallow Aquatic	15.9	3.0	1.0	4.0	L4
SAS1-3	Stonewort Submerged Shallow Aquatic	60.3	2.5	1.0	3.5	L4
SAS1-4	Water Milfoil Submerged Shallow Aquatic	47.8	3.0	1.0	4.0	L4
SAS1-5	Wild Celery Submerged Shallow Aquatic	4.4	4.0	2.0	6.0	L3
SAS1-A	Coon-tail Submerged Shallow Aquatic	35.8	2.5	1.0	3.5	L4
SAS1-B	Bushy Naiad Submerged Shallow Aquatic	2.0	4.0	2.0	6.0	L3
SAM1-2	Duckweed Mixed Shallow Aquatic	33.5	2.0	2.0	4.0	L4
SAM1-3	Watercress Mixed Shallow Aquatic	0.3	4.0	1.0	5.0	L3
SAM1-4	Pondweed Mixed Shallow Aquatic	16.2	3.0	2.0	5.0	L3
SAM1-5	Bur-reed Mixed Shallow Aquatic	0.2	4.5	2.0	6.5	L2
SAM1-6	Bladderwort Mixed Shallow Aquatic	1.1	4.0	3.0	7.0	L2
SAM1-7	Water Milfoil Mixed Shallow Aquatic	1.5	4.5	2.0	6.5	L2
SAM1-A	Water Lily - Bullhead Lily Mixed Shallow Aquatic	48.0	2.5	2.0	4.5	L4
SAM1-b	Floating-heart Mixed Shallow Aquatic	0.4	4.5	2.0	6.5	L+
SAM1-C	Crowfoot Mixed Shallow Aquatic	0.1	5.0	2.0	7.0	L2
SAF1-1	Water Lily - Bullhead Lily Floating-leaved Shallow Aquatic	5.2	3.5	2.0	5.5	L3
SAF1-3	Duckweed Floating-leaved Shallow Aquatic	25.3	2.5	1.0	3.5	L4
SAF1-A	Liverwort Floating-leaved Shallow Aquatic	0.1	5.0	1.0	6.0	L3
OAO1	Open Aquatic (deep or riverine unvegetated)	453.9	1.5	0.0	1.5	L5
OAO1-T	Turbid Open Aquatic (disturbed unvegetated)	357.1	1.5	0.0	1.5	L+

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	Dynamic (Beach, Bluff, Barren, Prairie, Savannah)					
BBO1	Mineral Open Beach	8.1	3.5	2.0	5.5	L3
BBO1-1	Sea Rocket Open Sand Beach	20.2	3.5	3.0	6.5	L2
BBO1-2	Wormwood Open Gravel Beach	0.05	5.0	3.0	8.0	L2
BBO1-3	Reed Canary Grass Riparian Bar	6.2	3.5	2.0	5.5	L3
BBO1-A	Open Riparian Sand / Gravel Bar	5.8	3.5	2.0	5.5	L5
BBO2-A	Rubble Open Shoreline	30.0	3.0	0.0	3.0	L5
BBO2-B	Rubble Open Riparian Bank	2.6	4.0	0.0	4.0	L5
BBO3-B	Constructed Channel - Sluiceway	1.1	4.5	0.0	4.5	L+
BBS1-2A	Willow Shrub Beach	10.8	3.5	3.0	6.5	L2
BBS1-2B	Willow Shrub Riparian Bar	20.6	3.0	1.0	4.0	L4
BBS1-A	Red Osier Dogwood Shrub Beach	0.0	5.0	2.0	7.0	L2
BBT1-A	Mineral Treed Beach	1.7	4.0	2.0	6.0	L3
BBT1-B	Mineral Treed Riparian Bar	11.2	3.5	2.0	5.5	L3
BBT2-A	Rubble Treed Shoreline	3.8	3.5	0.0	3.5	L5
BBT2-B	Rubble Treed Riparian Bank	0.1	5.0	0.0	5.0	L5
SDO1-1	Switchgrass - Beachgrass (- Little Bluestem) Open Sand Dune	3.3	3.5	5.0	8.5	L1
SDO1-A	Sand Dropseed - Flat-stemmed Bluegrass Open Sand Dune	0.3	5.0	3.0	8.0	L2
SDS1-A	Willow Shrub Sand Dune	0.6	4.0	2.0	6.0	L3
SDS1-B	Dogwood Shrub Sand Dune	0.0	5.0	2.0	7.0	L2
SDT1-1	Cottonwood Treed Sand Dune	11.5	3.5	3.0	6.5	L2
SDT1-2	Balsam Poplar Treed Sand Dune	1.1	4.0	3.0	7.0	L2
SDT1-a	Willow Treed Sand Dune	0.3	4.5	2.0	6.5	L5
BLO1	Mineral Open Bluff	35.0	2.5	2.0	4.5	L4
BLS1-A	Sumac - Willow - Cherry Shrub Bluff	30.8	3.0	2.0	5.0	L3
BLS1-B	Serviceberry - Buffaloberry Shrub Bluff	1.5	4.5	3.0	7.5	L2
BLS1-c	Exotic Shrub Bluff	0.8	4.0	2.0	6.0	L+
BLT1-A	White Cedar Treed Bluff	6.3	3.5	3.0	6.5	L2

Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
BLT1-B	Deciduous Treed Bluff	14.1	3.0	2.0	5.0	L3
BLT1-c	Exotic Treed Bluff	7.2	3.5	2.0	5.5	L+
CLS1	Carbonate Shrub Cliff	0.04	5.0	3.0	8.0	L2
CLT1-1	White Cedar Treed Carbonate Cliff	0.1	5.0	3.0	8.0	L2
CLT1-2	Sugar Maple - Ironwood - White Ash Treed Carbonate Cliff	0.7	4.5	3.0	7.5	L2
CBO1	Open Clay Barren	3.4	3.5	3.0	6.5	L3
CBS1	Shrub Clay Barren	6.4	3.0	3.0	6.0	L3
CBT1-A	White Cedar Low Treed Clay Barren	1.4	4.0	2.0	6.0	L3
SBO1-1	Dry Bracken Fern Sand Barren	1.0	4.5	5.0	9.5	L1
SBO1-2	Hay Sedge Sand Barren	0.1	5.0	5.0	10.0	L1
SBO1-2A	Mixed Sedge Sand Barren	0.04	5.0	5.0	10.0	L2
SBO1-A	Dry Dropseed Sand Barren	3.7	3.5	4.0	7.5	L2
SBO1-B	Dry-Fresh Flat-stemmed Bluegrass - Forb Sand Barren	6.0	3.5	3.0	6.5	L2
SBO1-c	Hard Fescue Sand Barren	0.1	5.0	3.0	8.0	L+
SBO1-D	Forb Sand Barren	0.1	5.0	3.0	8.0	L2
SBO2	Anthropogenic Sand / Gravel Barren	2.8	4.0	0.0	4.0	L4
SBS1	Shrub Sand Barren	6.0	3.5	3.0	6.5	L2
SBT1	Treed Sand Barren	29.5	3.0	4.0	7.0	L2
TPO1-1	Dry Tallgrass Prairie	0.6	4.5	5.0	9.5	L1
TPO2-1	Fresh-Moist Tallgrass Prairie	0.0	5.0	4.0	9.0	L1
TPO2-A	Fresh-Moist Tallgrass Prairie Planting	16.1	3.0	1.0	4.0	L5
TPS1-1	Dry Black Oak Tallgrass Savannah	2.7	4.5	4.0	8.5	L1
TPS1-2	Dry Black Oak - Pine Tallgrass Savannah	1.1	4.5	4.0	8.5	L1
TPS1-2A	Mixed Oak - Pine Tallgrass Savannah	0.1	5.0	4.0	9.0	L1
TPW1-1	Dry Black Oak - White Oak Tallgrass Woodland	0.8	4.5	5.0	9.5	L1
TPW1-A	Mixed Oak - Pine Tallgrass Woodland	1.5	4.5	4.0	8.5	L1
TPW2-A	Fresh-Moist Cottonwood Tallgrass Woodland	0.0	5.0	3.0	8.0	L2
CUS1-3	Red Oak Non-tallgrass Savannah	1.2	4.0	2.0	6.0	L3

Appendix 1: Vegetation Communities for Entire TRCA Jurisdiction (2017)

ELC Code	Vegetation Type <i>(* indicates present as inclusion and/or complex only)</i>	Tot. Area # ha	Scores			Local Rank Apr-17
			Local Occur.	Geophy. Requir.	2017 Score	
CUS1-3A	White Oak Non-tallgrass Savannah	0.0	5.0	3.0	8.0	L2
CUS1-3B	Bur Oak Non-tallgrass Savannah	2.6	4.5	1.0	5.5	L3
CUW1-2	Red Oak Non-tallgrass Woodland	6.8	3.5	2.0	5.5	L3
CUW1-2A	Black Oak Non-tallgrass Woodland	1.5	4.5	3.0	7.5	L2
CUW1-C	White Oak Non-tallgrass Woodland	1.1	4.5	3.0	7.5	L2
	Meadow					
CUM1-A	Native Forb Meadow	2857.3	1.0	0.0	1.0	L5
CUM1-b	Exotic Cool-season Grass Graminoid Meadow	2082.0	1.0	0.0	1.0	L+
CUM1-c	Exotic Forb Meadow	905.8	1.0	0.0	1.0	L+

Legend

L1-L3: community of regional conservation concern
L4: community of conservation concern in urban area
L5: community not of concern at this time
L+: community of predominantly introduced species
*c,i: community only present as complex (c) or inclusion (i)

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Abies balsamea</i>	balsam fir	2	3	4	5	14	L3	26-Apr-17
<i>Abutilon theophrasti</i>	velvet-leaf	3	ns	ns	ns	3	L+	26-Apr-17
<i>Acalypha rhomboidea</i>	three-seeded mercury	2	1	2	0	5	L5	25-Apr-16
<i>Acer campestre</i>	hedge maple	4	ns	ns	ns	4	L+	26-Apr-17
<i>Acer tataricum</i> ssp. <i>ginnala</i>	Amur maple	2	ns	ns	ns	2	L+	26-Apr-17
<i>Acer negundo</i>	Manitoba maple	1	ns	ns	ns	1	L+?	26-Apr-17
<i>Acer platanoides</i>	Norway maple	1	ns	ns	ns	1	L+	26-Apr-17
<i>Acer pseudoplatanus</i>	sycamore maple	3	ns	ns	ns	3	L+	26-Apr-17
<i>Acer rubrum</i>	red maple	1	4	1	5	11	L4	25-Apr-16
<i>Acer saccharinum</i>	silver maple	1	2	5	3	11	L4	16-Apr-14
<i>Acer saccharum</i> ssp. <i>nigrum</i>	black maple	2	3	4	2	11	L4	25-Apr-16
<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple	1	3	0	2	6	L5	26-Apr-17
<i>Acer spicatum</i>	mountain maple	1	3	4	4	12	L4	26-Apr-17
<i>Acer tataricum</i>	Tartar maple	5	ns	ns	ns	5	L+	25-Apr-16
<i>Acer x freemanii</i>	hybrid swamp maple	2	3	5	2	12	L4	26-Apr-17
<i>Achillea filipendulina</i>	fern-leaved yarrow	5	ns	ns	ns	5	L+	25-Apr-16
<i>Achillea borealis</i> var. <i>borealis</i>	woolly yarrow	1	2	0	1	4	L5	26-Apr-17
<i>Achillea millefolium</i>	European yarrow	3	ns	ns	ns	3	L+	26-Apr-17
<i>Achillea ptarmica</i>	sneezeweed yarrow	5	ns	ns	ns	5	L+	10-Mar-08
<i>Clinopodium acinos</i>	mother-of-thyme	4	ns	ns	ns	4	L+	26-Apr-17
<i>Acorus americanus</i>	sweet flag	3	3	5	4	15	L3	26-Apr-17
<i>Actaea pachypoda</i>	white baneberry	1	3	4	3	11	L4	25-Apr-16
<i>Actaea rubra</i> f. <i>neglecta</i>	white form red baneberry	4	2	1	3	10	L5	26-Apr-17
<i>Actaea rubra</i> ssp. <i>rubra</i>	red baneberry	1	3	1	3	8	L5	26-Apr-17
<i>Actaea x ludovici</i>	hybrid baneberry	3	3	4	3	13	L4	26-Apr-17
<i>Adiantum pedatum</i>	northern maidenhair fern	2	3	5	5	15	L3	26-Apr-17
<i>Adlumia fungosa</i>	climbing fumitory	5	e	e	e	5	LX	10-Mar-08
<i>Aegopodium podagraria</i>	goutweed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Aesculus glabra</i>	Ohio buckeye	4	ns	ns	ns	4	L+	26-Apr-17
<i>Aesculus hippocastanum</i>	horse-chestnut	2	ns	ns	ns	2	L+	26-Apr-17
<i>Agastache foeniculum</i>	fennel giant hyssop	4	ns	ns	ns	4	L+	26-Apr-17
<i>Agastache nepetoides</i>	catnip giant hyssop	5	e	4	3	12	LX	10-Mar-08
<i>Agalinis purpurea</i> var. <i>parviflora</i>	small-flowered gerardia	5	4	5	5	19	L1	10-Mar-08
<i>Agalinis purpurea</i>	purple gerardia	5	e	5	e	10	LX	10-Mar-08
<i>Agalinis tenuifolia</i>	slender gerardia	3	4	5	4	16	L3	26-Apr-17
<i>Ageratum houstonianum</i>	garden ageratum	5	ns	ns	ns	5	L+	10-Mar-08
<i>Agropyron cristatum</i>	crested wheat-grass	4	ns	ns	ns	4	L+	25-Apr-16
<i>Agrostis gigantea</i>	redtop	1	ns	ns	ns	1	L+	26-Apr-17
<i>Agrostemma githago</i>	corn-cockle	5	ns	ns	ns	5	L+	29-Apr-15

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Agrimonia gryposepala</i>	agrimony	1	2	0	2	5	L5	16-Apr-14
<i>Agrostis perennans</i>	upland bent grass	5	3	4	3	15	L3	29-Apr-15
<i>Agrimonia pubescens</i>	hairy agrimony	5	3	4	3	15	L3	25-Apr-16
<i>Agrostis scabra</i>	ticklegrass	3	3	4	4	14	L3	16-Apr-14
<i>Agrostis stolonifera</i>	creeping bent grass	1	ns	ns	ns	1	L+?	26-Apr-17
<i>Ailanthus altissima</i>	tree-of-heaven	3	ns	ns	ns	3	L+	26-Apr-17
<i>Ajuga genevensis</i>	erect bugle	5	ns	ns	ns	5	L+	11-Apr-03
<i>Ajuga reptans</i>	common bugle	2	ns	ns	ns	2	L+	26-Apr-17
<i>Akebia quinata</i>	chocolate-vine	5	ns	ns	ns	5	L+	27-Apr-17
<i>Alcea rosea</i>	hollyhock	5	ns	ns	ns	5	L+	16-Apr-14
<i>Alchemilla mollis</i>	lady's mantle	5	ns	ns	ns	5	L+	26-Apr-17
<i>Alisma gramineum</i>	grass-like water-plantain	5	2	5	4	16	LX	11-Mar-08
<i>Alisma subcordatum</i>	small-flowered water-plantain	4	2	5	3	14	L3	26-Apr-17
<i>Alisma triviale</i>	common water-plantain	1	2	4	2	9	L5	16-Apr-14
<i>Allium ampeloprasum</i>	garden leek	4	ns	ns	ns	4	L+	26-Apr-17
<i>Allium cepa</i>	onion	5	ns	ns	ns	5	L+	16-Apr-14
<i>Allium giganteum</i>	giant onion	4	ns	ns	ns	4	L+	26-Apr-17
<i>Alliaria petiolata</i>	garlic mustard	1	ns	ns	ns	1	L+	26-Apr-17
<i>Allium schoenoprasum</i> var. <i>schoenoprasum</i>	chives	3	ns	ns	ns	3	L+	26-Apr-17
<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	wild chives	5	2	5	3	15	L+?	26-Apr-17
<i>Allium tricoccum</i>	wild leek	1	3	4	4	12	L4	26-Apr-17
<i>Allium tuberosum</i>	onion	5	ns	ns	ns	5	L+	11-Mar-08
<i>Allium vineale</i>	field garlic	4	ns	ns	ns	4	L+	25-Apr-16
<i>Alnus glutinosa</i>	European alder	2	ns	ns	ns	2	L+	26-Apr-17
<i>Alnus incana</i> ssp. <i>incana</i>	grey alder	3	ns	ns	ns	3	L+	16-Apr-14
<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	1	4	4	5	14	L3	26-Apr-17
<i>Alnus glutinosa</i> x <i>incana</i> ssp. <i>rugosa</i>	hybrid European - speckled alder	3	ns	ns	ns	3	L+	25-Apr-16
<i>Alopecurus aequalis</i>	short-awned foxtail	3	4	5	4	16	L3	26-Apr-17
<i>Alopecurus geniculatus</i>	marsh foxtail	5	ns	ns	ns	5	L+?	11-Mar-08
<i>Alopecurus pratensis</i>	meadow foxtail	2	ns	ns	ns	2	L+	26-Apr-17
<i>Althaea hirsuta</i>	rough marsh mallow	5	ns	ns	ns	5	L+	11-Mar-08
<i>Althaea officinalis</i>	marsh mallow	5	ns	ns	ns	5	L+	11-Mar-08
<i>Alyssum alyssoides</i>	yellow alyssum	4	ns	ns	ns	4	L+	29-Apr-15
<i>Amaranthus albus</i>	tumbleweed	5	ns	ns	ns	5	L+	26-Apr-17
<i>Amaranthus blitoides</i>	prostrate pigweed	5	ns	ns	ns	5	L+	25-Apr-16
<i>Amaranthus cruentus</i>	purple pigweed	5	ns	ns	ns	5	L+	11-Mar-08
<i>Amaranthus hybridus</i>	slender pigweed	4	ns	ns	ns	4	L+	25-Apr-16
<i>Amaranthus powellii</i>	Powell's pigweed	5	ns	ns	ns	5	L+	21-Jun-12
<i>Amaranthus retroflexus</i>	red-root pigweed	2	ns	ns	ns	2	L+	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Ambrosia artemisiifolia</i>	common ragweed	1	1	3	0	5	L5	26-Apr-17
<i>Ambrosia trifida</i>	giant ragweed	2	1	4	0	7	L5	26-Apr-17
<i>Amelanchier amabilis</i>	large-flowered serviceberry	5	2	5	4	16	L3	11-Mar-08
<i>Amelanchier arborea</i>	downy serviceberry	1	3	4	3	11	L4	27-Apr-17
<i>Amelanchier laevis</i>	smooth serviceberry	2	2	4	3	11	L4	26-Apr-17
<i>Amelanchier sanguinea</i>	round-leaved serviceberry	2	2	3	4	11	L4	26-Apr-17
<i>Amelanchier spicata</i>	running serviceberry	4	4	4	5	17	L2	26-Apr-17
<i>Amelanchier x grandiflora</i>	showy serviceberry	5	2	4	2	13	L4	28-Apr-17
<i>Amelanchier interior</i>	hybrid serviceberry complex	3	3	3	3	12	L4	29-Apr-15
<i>Ammophila breviligulata</i>	marram grass	4	4	5	4	17	L2	21-Jun-12
<i>Amorpha fruticosa</i>	shrubby false indigo	3	ns	ns	ns	3	L+	29-Apr-15
<i>Amphicarpaea bracteata</i>	hog-peanut	1	2	2	2	7	L5	26-Apr-17
<i>Lysimachia arvensis</i>	scarlet pimpernel	2	ns	ns	ns	2	L+	26-Apr-17
<i>Anaphalis margaritacea</i>	pearly everlasting	3	4	4	3	14	L3	26-Apr-17
<i>Anchusa arvensis</i>	small bugloss	5	ns	ns	ns	5	L+	12-Mar-08
<i>Andropogon gerardii</i>	big bluestem	4	3	4	4	15	L3	26-Apr-17
<i>Andromeda polifolia</i> var. <i>latifolia</i>	bog rosemary	5	5	5	4	19	L1	12-Mar-08
<i>Androsace septentrionalis</i>	pygmy-flower	5	2	5	4	16	L3	12-Mar-08
<i>Anemone acutiloba</i>	sharp-lobed hepatica	1	4	4	5	14	L3	26-Apr-17
<i>Anemone americana</i>	round-lobed hepatica	3	5	5	5	18	L2	26-Apr-17
<i>Anemone canadensis</i>	Canada anemone	1	2	2	2	7	L5	26-Apr-17
<i>Anemone cylindrica</i>	long-fruited thimbleweed	2	4	3	5	14	L3	26-Apr-17
<i>Anemone multifida</i>	red anemone	5	3	5	4	17	L2	12-Mar-08
<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	wood-anemone	1	4	3	5	13	L4	25-Apr-16
<i>Anemone virginiana</i>	common thimbleweed	1	3	0	3	7	L5	26-Apr-17
<i>Angelica atropurpurea</i>	angelica	3	3	4	4	14	L3	25-Apr-16
<i>Anthemis arvensis</i>	corn-chamomile	5	ns	ns	ns	5	L+	16-Apr-14
<i>Anthemis cotula</i>	stinking mayweed	4	ns	ns	ns	4	L+	29-Apr-15
<i>Antennaria howellii</i> ssp. <i>howellii</i>	Howell's pussytoes	2	2	3	3	10	L5	26-Apr-17
<i>Antennaria howellii</i> ssp. <i>neodioica</i>	small pussytoes	3	3	3	4	13	LU	22-Apr-14
<i>Antennaria howellii</i> ssp. <i>petaloidea</i>	sessile-leaved pussytoes	4	3	3	4	14	LU	2-Jun-08
<i>Antirrhinum majus</i>	snapdragon	5	ns	ns	ns	5	L+	12-Mar-08
<i>Antennaria neglecta</i>	field pussytoes	3	3	3	4	13	LU	27-Apr-17
<i>Anthoxanthum odoratum</i>	sweet vernal grass	5	ns	ns	ns	5	L+	12-Mar-08
<i>Misopates orontium</i>	lesser snapdragon	5	ns	ns	ns	5	L+	12-Mar-08
<i>Antennaria parlinii</i> ssp. <i>fallax</i>	plantain-leaved pussytoes	3	4	3	4	14	L3	26-Apr-17
<i>Anthriscus sylvestris</i>	wild chervil	5	ns	ns	ns	5	L+	16-Apr-14
<i>Apera spica-venti</i>	silky bent grass	5	ns	ns	ns	5	L+	2-Jun-08
<i>Apios americana</i>	ground-nut	3	4	3	3	13	L4	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Aplectrum hyemale</i>	putty-root	5	5	5	e	15	LX	12-Mar-08
<i>Apocynum androsaemifolium</i>	spreading dogbane	1	3	2	4	10	L5	29-Apr-15
<i>Apocynum cannabinum</i> var. <i>cannabinum</i>	hemp dogbane	2	2	2	2	8	L5	26-Apr-17
<i>Apocynum cannabinum</i>	hemp dogbane (sensu lato)	1	2	2	2	7	L5	26-Apr-17
<i>Apocynum cannabinum</i> var. <i>hypericifolium</i>	clasping-leaved hemp dogbane	2	2	3	2	9	L5	26-Apr-17
<i>Apocynum x floribundum</i>	intermediate dogbane	5	ns	ns	ns	5	LH	13-Mar-08
<i>Aquilegia canadensis</i>	wild columbine	1	4	3	5	13	L4	26-Apr-17
<i>Aquilegia vulgaris</i>	garden columbine	3	ns	ns	ns	3	L+	26-Apr-17
<i>Borodinia canadensis</i>	sicklepod	5	4	4	4	17	L2	29-Apr-15
<i>Boechera divaricarpa</i>	divaricate rock-cress	5	e	4	e	9	LX	13-Mar-08
<i>Boechera stricta</i>	Drummond's rock-cress	5	e	4	e	9	LX	13-Mar-08
<i>Aralia elata</i>	Japanese angelica-tree	5	ns	ns	ns	5	L+	16-Apr-14
<i>Turritis glabra</i>	tower mustard	3	4	4	4	15	L3	29-Apr-15
<i>Arabis pycnocarpa</i> var. <i>pycnocarpa</i>	hairy rock-cress	5	5	5	3	18	L2	13-Mar-08
<i>Aralia hispida</i>	bristly sarsaparilla	5	e	5	e	10	LX	13-Mar-08
<i>Borodinia laevigata</i>	smooth rock-cress	5	4	4	4	17	L2	29-Apr-15
<i>Aralia nudicaulis</i>	wild sarsaparilla	1	3	1	4	9	L5	26-Apr-17
<i>Arabis procurrens</i>	running rockcress	5	ns	ns	ns	5	L+	2-Jun-08
<i>Aralia racemosa</i> ssp. <i>racemosa</i>	spikenard	2	4	4	4	14	L3	25-Apr-16
<i>Arabidopsis thaliana</i>	mouse-ear cress	5	ns	ns	ns	5	L+	26-Apr-17
<i>Arctium lappa</i>	great burdock	1	ns	ns	ns	1	L+	26-Apr-17
<i>Arctium minus</i>	common burdock	1	ns	ns	ns	1	L+	26-Apr-17
<i>Arceuthobium pusillum</i>	dwarf mistletoe	5	4	5	5	19	L1	24-Feb-12
<i>Arctium tomentosum</i>	woolly burdock	5	ns	ns	ns	5	L+	14-Mar-08
<i>Arctostaphylos uva-ursi</i>	bear-berry	5	5	5	5	20	LX	3-Apr-08
<i>Arethusa bulbosa</i>	dragon's mouth orchid	5	5	5	5	20	LX	14-Mar-08
<i>Arenaria serpyllifolia</i>	thyme-leaved sandwort	2	ns	ns	ns	2	L+	26-Apr-17
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	1	3	2	3	9	L5	26-Apr-17
<i>Rorippa aquatica</i>	lake-cress	5	e	e	e	5	LX	11-Apr-03
<i>Armoracia rusticana</i>	horse-radish	4	ns	ns	ns	4	L+	25-Apr-16
<i>Aronia melanocarpa</i>	black choke-berry	3	5	5	4	17	L2	26-Apr-17
<i>Arrhenatherum elatius</i>	tall oat-grass	5	ns	ns	ns	5	L+	14-Mar-08
<i>Artemisia abrotanum</i>	southernwood	5	ns	ns	ns	5	L+	29-Apr-15
<i>Artemisia absinthium</i>	common wormwood	5	ns	ns	ns	5	L+	16-Apr-14
<i>Artemisia annua</i>	sweet wormwood	5	ns	ns	ns	5	L+	14-Mar-08
<i>Artemisia biennis</i>	biennial wormwood	2	ns	ns	ns	2	L+	26-Apr-17
<i>Artemisia campestris</i> ssp. <i>caudata</i>	beach wormwood	4	4	4	4	16	L3	16-Apr-14
<i>Artemisia dracunculul</i>	tarragon	5	ns	ns	ns	5	L+?	25-Apr-16
<i>Artemisia ludoviciana</i>	western mugwort	5	ns	ns	ns	5	L+	29-Apr-15

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Artemisia pontica</i>	Roman wormwood	5	ns	ns	ns	5	L+	14-Mar-08
<i>Artemisia vulgaris</i>	common mugwort	2	ns	ns	ns	2	L+	26-Apr-17
<i>Asarum canadense</i>	wild ginger	1	3	4	3	11	L4	26-Apr-17
<i>Asclepias exaltata</i>	poke milkweed	3	5	4	5	17	L2	25-Apr-16
<i>Asclepias incarnata</i> ssp. <i>incarnata</i>	swamp milkweed	1	3	4	4	12	L4	16-Apr-14
<i>Asclepias sullivantii</i>	smooth milkweed	5	5	5	4	19	LX	3-Apr-08
<i>Asclepias syriaca</i>	common milkweed	1	2	0	2	5	L5	26-Apr-17
<i>Asclepias tuberosa</i>	butterfly milkweed	5	2	5	5	17	LX	14-Mar-08
<i>Asparagus officinalis</i>	asparagus	1	ns	ns	ns	1	L+	26-Apr-17
<i>Asplenium platyneuron</i>	ebony spleenwort	4	3	5	5	17	L2	26-Apr-17
<i>Symphyotrichum boreale</i>	bog aster	5	4	5	4	18	L2	16-Apr-14
<i>Symphyotrichum ciliatum</i>	rayless aster	3	ns	ns	ns	3	L+	25-Apr-16
<i>Astragalus canadensis</i>	Canada milk-vetch	5	5	4	5	19	L1	29-Apr-15
<i>Symphyotrichum ciliolatum</i>	Lindley's aster	4	3	4	3	14	L3	29-Apr-15
<i>Symphyotrichum cordifolium</i>	heart-leaved aster	1	1	0	2	4	L5	26-Apr-17
<i>Eurybia divaricata</i>	white wood aster	5	e	e	e	5	LX	14-Mar-08
<i>Symphyotrichum ericoides</i> var. <i>ericoides</i>	heath aster	1	1	2	1	5	L5	26-Apr-17
<i>Symphyotrichum firmum</i>	shining aster	3	3	4	3	13	L4	26-Apr-17
<i>Symphyotrichum laeve</i> var. <i>laeve</i>	smooth aster	4	4	4	2	14	L3	29-Apr-15
<i>Symphyotrichum lanceolatum</i> var. <i>hirsuticaule</i>	Great Lakes panicled aster	5	3	4	3	15	L3	25-Apr-16
<i>Symphyotrichum lanceolatum</i> var. <i>latifolium</i>	broad-leaved panicled aster	5	2	4	3	14	L3	29-Apr-15
<i>Symphyotrichum lateriflorum</i> var. <i>lateriflorum</i>	calico aster	1	2	3	2	8	L5	26-Apr-17
<i>Symphyotrichum lanceolatum</i> var. <i>lanceolatum</i>	panicled aster	1	2	3	1	7	L5	26-Apr-17
<i>Eurybia macrophylla</i>	big-leaved aster	1	3	2	4	10	L5	29-Apr-15
<i>Symphyotrichum novae-angliae</i>	New England aster	1	2	2	1	6	L5	26-Apr-17
<i>Symphyotrichum ontarionis</i> var. <i>ontarionis</i>	Ontario aster	3	3	5	3	14	L3	26-Apr-17
<i>Symphyotrichum oolentangiense</i>	sky-blue aster	3	1	4	4	12	L4	25-Apr-16
<i>Symphyotrichum pilosum</i> var. <i>pilosum</i>	hairy aster	4	4	4	4	16	L3	26-Apr-17
<i>Symphyotrichum pilosum</i> var. <i>pringlei</i>	Pringle's aster	5	4	5	4	18	L2	14-Mar-08
<i>Symphyotrichum puniceum</i> var. <i>puniceum</i>	swamp aster	1	2	2	2	7	L5	26-Apr-17
<i>Eurybia schreberi</i>	Schreber's aster	5	e	5	e	10	LX	14-Mar-08
<i>Doellingeria umbellata</i> var. <i>umbellata</i>	flat-topped aster	3	4	3	4	14	L3	26-Apr-17
<i>Symphyotrichum urophyllum</i>	arrow-leaved aster	2	3	4	4	13	L4	26-Apr-17
<i>Symphyotrichum cordifolium</i> x <i>lateriflorum</i>	heart-leaved calico hybrid aster	5	2	3	2	12	L4	28-Apr-17
<i>Symphyotrichum</i> x <i>amethystinum</i>	amethyst aster	2	2	2	2	8	L5	26-Apr-17
<i>Athyrium filix-femina</i> var. <i>angustum</i>	northeastern lady fern	1	3	1	3	8	L5	26-Apr-17
<i>Atriplex heterosperma</i>	Russian orache	5	ns	ns	ns	5	L+	14-Mar-08
<i>Atriplex hortensis</i>	garden orache	5	ns	ns	ns	5	L+	26-Apr-17
<i>Atriplex patula</i>	halberd-leaved orache	2	ns	ns	ns	2	L+?	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Atriplex prostrata</i>	spreading orache	2	ns	ns	ns	2	L+?	26-Apr-17
<i>Atriplex rosea</i>	red orache	5	ns	ns	ns	5	L+	14-Mar-08
<i>Aureolaria flava</i>	yellow false foxglove	5	e	5	e	10	LX	14-Mar-08
<i>Aureolaria pedicularia</i>	fern-leaved false foxglove	5	e	5	e	10	LX	14-Mar-08
<i>Avena fatua</i>	wild oats	5	ns	ns	ns	5	L+	14-Mar-08
<i>Avena sativa</i>	oats	4	ns	ns	ns	4	L+	25-Apr-16
<i>Axyris amaranthoides</i>	Russian pigweed	5	ns	ns	ns	5	L+	2-Jun-08
<i>Tanacetum balsamita</i>	costmary	5	ns	ns	ns	5	L+	2-Mar-09
<i>Barbarea vulgaris</i>	winter cress	1	ns	ns	ns	1	L+	26-Apr-17
<i>Beckmannia syzigachne</i>	slough grass	5	2	5	4	16	L3	21-Jun-12
<i>Bellis perennis</i>	English daisy	5	ns	ns	ns	5	L+	29-Apr-15
<i>Berberis aquifolium</i>	Oregon-grape	4	ns	ns	ns	4	L+	26-Apr-17
<i>Berteroia incana</i>	hoary alyssum	3	ns	ns	ns	3	L+	26-Apr-17
<i>Berberis thunbergii</i>	Japanese barberry	1	ns	ns	ns	1	L+	26-Apr-17
<i>Berberis vulgaris</i>	common barberry	3	ns	ns	ns	3	L+	26-Apr-17
<i>Betula alleghaniensis</i>	yellow birch	1	4	3	5	13	L4	26-Apr-17
<i>Betula papyrifera</i>	paper birch	1	4	2	4	11	L4	26-Apr-17
<i>Betula pendula</i>	European white birch	2	ns	ns	ns	2	L+	26-Apr-17
<i>Betula pumila</i>	dwarf birch	5	4	5	5	19	L1	17-Mar-08
<i>Beta vulgaris</i>	beet	5	ns	ns	ns	5	L+	29-Apr-15
<i>Betula x purpusii</i>	hybrid fen birch	5	3	5	4	17	L2	25-May-17
<i>Bidens cernua</i>	nodding bur-marigold	1	2	3	3	9	L5	26-Apr-17
<i>Bidens discoidea</i>	small beggar's-ticks	3	2	4	5	14	L3	27-Apr-17
<i>Bidens frondosa</i>	common beggar's-ticks	1	1	4	0	6	L5	26-Apr-17
<i>Bidens tripartita</i>	three-parted beggar's-ticks	2	2	4	2	10	L5	26-Apr-17
<i>Bidens vulgata</i>	tall beggar's-ticks	2	2	3	4	11	L4	26-Apr-17
<i>Boehmeria cylindrica</i>	false nettle	2	4	4	3	13	L4	26-Apr-17
<i>Borago officinalis</i>	borage	5	ns	ns	ns	5	L+	11-Apr-03
<i>Sceptridium dissectum</i>	cut-leaved grape fern	4	4	5	5	18	L2	16-Apr-14
<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	triangle grape fern	5	5	5	5	20	LX	17-Mar-08
<i>Botrychium matricariifolium</i>	daisy-leaved grape fern	4	5	5	5	19	L1	26-Apr-17
<i>Sceptridium multifidum</i>	leathery grape fern	5	5	5	5	20	L1	3-Feb-12
<i>Sceptridium oneidense</i>	blunt-lobed grape fern	5	e	e	e	5	LX	11-Apr-03
<i>Botrychium simplex</i>	least grape fern	5	5	5	5	20	LX	17-Mar-08
<i>Botrypus virginianus</i>	rattlesnake fern	2	5	4	5	16	L3	26-Apr-17
<i>Bouteloua curtipendula</i>	side-oats grama	5	ns	ns	ns	5	L+	25-Apr-16
<i>Brachyelytrum aristosum</i>	northern short-husk	5	4	4	4	17	L2	28-Apr-17
<i>Brachyelytrum erectum</i>	bearded short-husk	3	5	3	4	15	L3	26-Apr-17
<i>Brassica juncea</i>	brown mustard	4	ns	ns	ns	4	L+	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Brassica napus</i>	rapeseed	5	ns	ns	ns	5	L+	25-Apr-16
<i>Brassica nigra</i>	black mustard	5	ns	ns	ns	5	L+	26-Apr-17
<i>Brassica oleracea</i>	kale	5	ns	ns	ns	5	L+	25-Apr-16
<i>Brassica rapa</i>	turnip	4	ns	ns	ns	4	L+	25-Apr-16
<i>Brasenia schreberi</i>	water-shield	4	5	5	5	19	L1	16-Apr-14
<i>Briza media</i>	quaking grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Bromus briziformis</i>	quake-grass brome	5	ns	ns	ns	5	L+	11-Apr-03
<i>Bromus ciliatus</i>	fringed brome grass	2	4	4	5	15	L3	26-Apr-17
<i>Bromus commutatus</i>	upright chess	3	ns	ns	ns	3	L+	25-Apr-16
<i>Bromus danthoniae</i>	danthonia-like brome	5	ns	ns	ns	5	L+	11-Apr-03
<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	soft brome	4	ns	ns	ns	4	L+	26-Apr-17
<i>Bromus inermis</i>	smooth brome grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Bromus japonicus</i>	Japanese chess	3	ns	ns	ns	3	L+	25-Apr-16
<i>Bromus kalmii</i>	Kalm's brome	5	5	5	4	19	LX	17-Mar-08
<i>Bromus latiglumis</i>	eared brome	3	2	4	3	12	L4	26-Apr-17
<i>Bromus porteri</i>	Porter's brome	5	ns	ns	ns	5	L+	29-Apr-15
<i>Bromus pubescens</i>	Canada brome	4	5	4	4	17	L2	26-Apr-17
<i>Bromus racemosus</i>	spiked brome	4	ns	ns	ns	4	L+	25-Apr-16
<i>Bromus secalinus</i>	cheat brome	4	ns	ns	ns	4	L+	26-Apr-17
<i>Bromus sterilis</i>	barren brome	5	ns	ns	ns	5	L+	27-Apr-17
<i>Bromus tectorum</i>	downy chess	2	ns	ns	ns	2	L+	26-Apr-17
<i>Brunnera macrophylla</i>	Siberian bugloss	5	ns	ns	ns	5	L+	25-Apr-16
<i>Buglossoides arvensis</i>	corn gromwell	5	ns	ns	ns	5	L+	16-Apr-14
<i>Butomus umbellatus</i>	flowering-rush	4	ns	ns	ns	4	L+	26-Apr-17
<i>Buxus sempervirens</i>	boxwood	4	ns	ns	ns	4	L+	25-Apr-16
<i>Cakile edentula</i>	sea-rocket	4	4	5	4	17	L2	25-Apr-16
<i>Calypso bulbosa</i>	calypso	5	5	5	5	20	LX	18-Mar-08
<i>Calamagrostis canadensis</i>	Canada blue joint	2	3	4	4	13	L4	26-Apr-17
<i>Calamagrostis epigeios</i>	feathertop	4	ns	ns	ns	4	L+	25-Apr-16
<i>Calendula officinalis</i>	pot-marigold	5	ns	ns	ns	5	L+	11-Apr-03
<i>Calla palustris</i>	water arum	3	5	4	5	17	L2	26-Apr-17
<i>Callitriche palustris</i>	marsh water starwort	3	3	4	4	14	L3	28-Apr-16
<i>Caltha palustris</i>	marsh marigold	1	4	3	4	12	L4	16-Apr-14
<i>Calystegia sepium</i> ssp. <i>americana</i>	pink hedge bindweed	3	2	2	2	9	L5	26-Apr-17
<i>Calystegia sepium</i> ssp. <i>angulata</i>	white hedge bindweed	3	2	3	2	10	L5	26-Apr-17
<i>Calystegia sepium</i>	hedge bindweed (sensu lato)	2	2	3	2	9	L5	26-Apr-17
<i>Calystegia spithamea</i> ssp. <i>spithamea</i>	low bindweed	4	4	4	4	16	L3	26-Apr-17
<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i>	northern reed grass	5	4	4	4	17	L2	17-Mar-08
<i>Calopogon tuberosus</i>	grass pink	5	5	5	5	20	L1	16-Apr-14

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Campanula aparinoides</i>	marsh bellflower	3	4	5	4	16	L3	26-Apr-17
<i>Camelina microcarpa</i>	small-seeded false flax	4	ns	ns	ns	4	L+	26-Apr-17
<i>Campanula persicifolia</i>	peach-leaved bellflower	4	ns	ns	ns	4	L+	25-Apr-16
<i>Campsis radicans</i>	trumpet creeper	5	ns	ns	ns	5	L+	26-Apr-17
<i>Campanula rapunculoides</i>	creeping bellflower	1	ns	ns	ns	1	L+	26-Apr-17
<i>Campanula rotundifolia</i>	harebell	5	5	4	5	19	L1	18-Mar-08
<i>Camelina sativa</i>	sown false flax	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cannabis sativa</i>	marijuana	4	ns	ns	ns	4	L+	26-Apr-17
<i>Capsella bursa-pastoris</i>	shepherd's purse	1	ns	ns	ns	1	L+	26-Apr-17
<i>Carduus acanthoides</i>	plumeless thistle	2	ns	ns	ns	2	L+	26-Apr-17
<i>Carex albicans</i> var. <i>albicans</i>	blunt-scaled sedge	5	4	5	3	17	L2	2-Jun-08
<i>Carex albursina</i>	white bear sedge	2	3	5	4	14	L3	26-Apr-17
<i>Carex alopecoidea</i>	foxtail wood sedge	1	3	5	4	13	L4	26-Apr-17
<i>Carex grisea</i>	grey sedge	3	2	4	3	12	L4	26-Apr-17
<i>Carex appalachica</i>	Appalachian sedge	5	4	4	4	17	L2	27-Feb-12
<i>Carex aquatilis</i>	water sedge	3	4	5	5	17	L2	26-Apr-17
<i>Caragana arborescens</i>	Siberian pea-shrub	2	ns	ns	ns	2	L+	26-Apr-17
<i>Carex arctata</i>	nodding wood sedge	1	4	2	3	10	L5	26-Apr-17
<i>Carex atherodes</i>	awned sedge	3	3	5	4	15	L3	25-Apr-16
<i>Carex aurea</i>	golden-fruited sedge	1	2	4	4	11	L4	26-Apr-17
<i>Carex backii</i>	Back's sedge	4	3	4	4	15	L3	26-Apr-17
<i>Carex bebbii</i>	Bebb's sedge	1	2	3	3	9	L5	26-Apr-17
<i>Carpinus betulus</i>	European hornbeam	5	ns	ns	ns	5	L+	16-Apr-14
<i>Carex blanda</i>	common wood sedge	1	2	1	2	6	L5	26-Apr-17
<i>Carex brevior</i>	short-fruited sedge	3	3	4	4	14	L3	26-Apr-17
<i>Carex bromoides</i>	brome-like sedge	3	3	4	3	13	L4	25-Apr-16
<i>Carex brunnescens</i> ssp. <i>brunnescens</i>	brownish sedge	3	3	4	4	14	L3	26-Apr-17
<i>Cardamine bulbosa</i>	spring cress	5	4	4	5	18	L2	18-Mar-08
<i>Carex buxbaumii</i>	dark-scaled sedge	5	3	5	4	17	L2	18-Mar-08
<i>Carex canescens</i> ssp. <i>canescens</i>	silvery sedge	3	4	5	4	16	L3	26-Apr-17
<i>Carpinus caroliniana</i> ssp. <i>virginiana</i>	blue beech	1	3	4	3	11	L4	26-Apr-17
<i>Carum carvi</i>	caraway	5	ns	ns	ns	5	L+	11-Apr-03
<i>Carex castanea</i>	chestnut-scaled sedge	5	3	4	3	15	L3	29-Apr-15
<i>Carex cephaloidea</i>	thin-leaved sedge	2	3	5	3	13	L4	26-Apr-17
<i>Carex cephalophora</i>	oval-headed sedge	2	3	4	4	13	L4	26-Apr-17
<i>Carex chordorrhiza</i>	creeping sedge	5	4	5	4	18	L2	16-Apr-14
<i>Carex communis</i>	fibrous-rooted sedge	1	4	3	3	11	L4	26-Apr-17
<i>Carex comosa</i>	bristly sedge	2	3	5	4	14	L3	26-Apr-17
<i>Cardamine concatenata</i>	cut-leaved toothwort	1	3	5	4	13	L4	26-Apr-17

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Carya cordiformis</i>	bitternut hickory	1	4	4	2	11	L4	26-Apr-17
<i>Carex crawfordii</i>	Crawford's sedge	4	3	4	4	15	L3	26-Apr-17
<i>Carex crinita</i>	fringed sedge	2	4	4	4	14	L3	26-Apr-17
<i>Carex cristatella</i>	crested sedge	1	2	4	1	8	L5	25-Apr-16
<i>Carex cryptolepis</i>	small yellow sedge	5	3	5	4	17	L2	16-Apr-14
<i>Carex debilis</i> var. <i>rudgei</i>	white-edged sedge	5	2	4	4	15	L3	29-Apr-15
<i>Carex deweyana</i>	Dewey's sedge	1	4	3	3	11	L4	26-Apr-17
<i>Carex diandra</i>	lesser panicled sedge	3	4	5	4	16	L3	26-Apr-17
<i>Carex digitalis</i>	slender wood sedge	3	4	4	3	14	L3	26-Apr-17
<i>Cardamine diphylla</i>	broad-leaved toothwort	1	3	4	4	12	L4	26-Apr-17
<i>Carex disperma</i>	two-seeded sedge	2	3	5	4	14	L3	21-Jun-12
<i>Carex divulsa</i> ssp. <i>divulsa</i>	separated sedge	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cardamine douglassii</i>	purple cress	4	4	4	4	16	L3	25-Apr-16
<i>Carex eburnea</i>	bristle-leaved sedge	2	4	4	4	14	L3	26-Apr-17
<i>Carex echinata</i> ssp. <i>echinata</i>	little prickly sedge	5	4	5	5	19	L1	16-Apr-14
<i>Carex flacca</i>	heath sedge	4	ns	ns	ns	4	L+	29-Apr-15
<i>Carex flava</i>	yellow sedge	3	3	5	4	15	L3	26-Apr-17
<i>Cardamine flexuosa</i>	wavy bittercress	5	ns	ns	ns	5	L+	2-Jun-08
<i>Carex formosa</i>	handsome sedge	5	3	4	4	16	L3	19-Mar-08
<i>Carex garberi</i>	Garber's sedge	5	4	5	4	18	L2	3-Feb-12
<i>Carex gracillima</i>	graceful sedge	1	3	4	2	10	L5	25-Apr-16
<i>Carex gracilescens</i>	rather slender sedge	4	3	4	4	15	L3	21-Jun-12
<i>Carex granularis</i>	meadow sedge	1	2	1	3	7	L5	26-Apr-17
<i>Carex grayi</i>	Gray's sedge	3	5	4	4	16	L3	25-Apr-16
<i>Carex gynandra</i>	nodding sedge	5	ns	ns	ns	5	L+?	29-Apr-15
<i>Carex hirtifolia</i>	hairy wood sedge	2	3	4	3	12	L4	25-Apr-16
<i>Cardamine hirsuta</i>	hairy bitter cress	5	ns	ns	ns	5	L+	11-Apr-03
<i>Carex hitchcockiana</i>	Hitchcock's sedge	2	3	5	3	13	L4	26-Apr-17
<i>Carex houghtoniana</i>	Houghton's sedge	5	ns	ns	ns	5	L+?	25-Apr-16
<i>Carex hystericina</i>	porcupine sedge	1	3	2	5	11	L4	26-Apr-17
<i>Cardamine impatiens</i>	balsam bitter cress	3	ns	ns	ns	3	L+	26-Apr-17
<i>Carex interior</i>	fen star sedge	2	4	4	4	14	L3	16-Apr-14
<i>Carex intumescens</i>	bladder sedge	2	4	4	2	12	L4	25-Apr-16
<i>Carex jamesii</i>	James' sedge	5	2	3	4	14	L3	27-Apr-17
<i>Carex lacustris</i>	lake-bank sedge	1	3	3	4	11	L4	26-Apr-17
<i>Carex laevivaginata</i>	smooth-sheathed sedge	2	4	4	4	14	L3	26-Apr-17
<i>Carex lasiocarpa</i>	slender woolly sedge	3	4	5	5	17	L2	16-Apr-14
<i>Carex laxiculmis</i> var. <i>laxiculmis</i>	spreading wood sedge	3	3	5	3	14	L3	29-Apr-15
<i>Carex laxiflora</i>	loose-flowered sedge	1	3	4	3	11	L4	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Carex leptonevia</i>	few-nerved wood sedge	2	4	4	4	14	L3	26-Apr-17
<i>Carex leptalea</i>	bristle-stalked sedge	2	3	5	4	14	L3	26-Apr-17
<i>Carex limosa</i>	mud sedge	5	4	5	4	18	L2	16-Apr-14
<i>Carex lupulina</i>	hop sedge	1	4	4	4	13	L4	26-Apr-17
<i>Carex lurida</i>	sallow sedge	5	2	4	5	16	L3	27-Feb-12
<i>Carex magellanica</i> ssp. <i>irrigua</i>	stunted sedge	4	4	5	5	18	L2	16-Apr-14
<i>Carex molesta</i>	troublesome sedge	3	3	4	4	14	L3	16-Apr-14
<i>Carex muehlenbergii</i> var. <i>muehlenbergii</i>	Muhlenberg's sedge	4	4	4	4	16	L3	16-Apr-14
<i>Carex normalis</i>	tall straw sedge	4	3	5	3	15	L3	3-Feb-12
<i>Carduus nutans</i> ssp. <i>nutans</i>	nodding thistle	2	ns	ns	ns	2	L+	26-Apr-17
<i>Carya ovata</i>	shagbark hickory	2	4	4	4	14	L3	3-Feb-12
<i>Carex pallescens</i>	pale sedge	2	3	5	3	13	L4	26-Apr-17
<i>Carex pauciflora</i>	few-flowered sedge	5	5	5	5	20	LX	25-Mar-08
<i>Carex peckii</i>	Peck's sedge	1	3	4	3	11	L4	26-Apr-17
<i>Carex pedunculata</i>	early-flowering sedge	1	3	3	3	10	L5	26-Apr-17
<i>Carex pellita</i>	woolly sedge	2	3	4	3	12	L4	25-Apr-16
<i>Cardamine pensylvanica</i>	bitter cress	2	2	4	4	12	L4	25-Apr-16
<i>Carex pensylvanica</i>	Pennsylvania sedge	1	4	3	4	12	L4	26-Apr-17
<i>Carex plantaginea</i>	plantain-leaved sedge	2	4	5	4	15	L3	26-Apr-17
<i>Carex platyphylla</i>	broad-leaved sedge	3	4	4	4	15	L3	26-Apr-17
<i>Carex praegracilis</i>	freeway sedge	5	ns	ns	ns	5	L+	26-Mar-08
<i>Carex prairea</i>	fen panicled sedge	5	4	4	5	18	L2	26-Apr-17
<i>Carex prasina</i>	drooping sedge	5	4	4	4	17	L2	26-Mar-08
<i>Cardamine nymani</i>	cuckoo-flower	4	4	5	4	17	L2	26-Apr-17
<i>Carex projecta</i>	necklace sedge	2	2	4	3	11	L4	26-Apr-17
<i>Carex pseudocyperus</i>	pseudocyperus sedge	1	3	3	4	11	L4	16-Apr-14
<i>Carex radiata</i>	straight-styled sedge	1	2	2	2	7	L5	26-Apr-17
<i>Carex retrorsa</i>	retorse sedge	1	3	3	4	11	L4	26-Apr-17
<i>Carex rosea</i>	curly-styled sedge	1	2	3	2	8	L5	26-Apr-17
<i>Carex sartwellii</i>	Sartwell's sedge	5	3	5	4	17	L2	28-Apr-14
<i>Carex scabrata</i>	rough sedge	2	3	4	3	12	L4	21-Jun-12
<i>Carex schweinitzii</i>	Schweinitz' sedge	5	4	5	4	18	L2	3-Feb-12
<i>Carex scoparia</i>	pointed broom sedge	4	2	5	3	14	L3	29-Apr-15
<i>Carex siccata</i>	hay sedge	4	3	4	4	15	L3	26-Apr-17
<i>Carex sparganioides</i>	bur-reed sedge	2	2	5	2	11	L4	26-Apr-17
<i>Carex spicata</i>	spiked sedge	1	ns	ns	ns	1	L+	25-Apr-16
<i>Carex sprengeii</i>	long-beaked sedge	2	4	4	2	12	L4	26-Apr-17
<i>Carex stipata</i>	awl-fruited sedge	1	3	2	3	9	L5	26-Apr-17
<i>Carex stricta</i>	tussock sedge	2	3	3	4	12	L4	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Carex sychnocephala</i>	dense long-beaked sedge	5	2	5	3	15	L3	3-Feb-12
<i>Carex sylvatica</i>	European woodland sedge	4	ns	ns	ns	4	L+	27-Apr-17
<i>Carex echinodes</i>	marsh straw sedge	2	3	3	3	11	L4	27-Apr-17
<i>Carex tenera</i>	straw sedge (sensu lato)	2	3	2	3	10	L5	26-Apr-17
<i>Carex tenuiflora</i>	sparse-flowered sedge	5	3	5	4	17	L2	27-Feb-12
<i>Carex tenera</i>	straw sedge	3	2	4	4	13	L4	26-Apr-17
<i>Carex torta</i>	twisted sedge	5	5	4	4	18	LX	26-Mar-08
<i>Carex tosa</i> var. <i>rugosperma</i>	red-seeded sedge	3	4	4	4	15	L3	26-Apr-17
<i>Carex billingsii</i>	Billings' three-seeded sedge	5	5	5	4	19	L1	28-Apr-16
<i>Carex tribuloides</i>	blunt broom sedge	3	2	4	3	12	L4	25-Apr-16
<i>Carex trichocarpa</i>	hairy-fruited sedge	3	3	5	4	15	L3	26-Apr-17
<i>Carex trisperma</i>	three-seeded sedge	3	3	5	4	15	L3	26-Apr-17
<i>Carex tuckermanii</i>	Tuckerman's sedge	2	4	4	4	14	L3	29-Apr-15
<i>Carex utriculata</i>	beaked sedge	2	3	4	5	14	L3	26-Apr-17
<i>Carex vaginata</i>	sheathed sedge	5	2	5	5	17	L2	29-Apr-15
<i>Carex vesicaria</i>	inflated sedge	4	3	5	4	16	L3	26-Apr-17
<i>Carex viridula</i> ssp. <i>viridula</i>	greenish sedge	3	3	5	5	16	L3	25-Apr-16
<i>Carex vulpinoidea</i>	fox sedge	1	2	4	1	8	L5	26-Apr-17
<i>Carex woodii</i>	purple-tinged sedge	3	3	5	3	14	L3	26-Apr-17
<i>Carex lacustris</i> x <i>trichocarpa</i>	hybrid Paludosae sedge	5	3	5	3	16	L3	25-Apr-16
<i>Cardamine maxima</i>	hybrid toothwort	1	3	3	3	10	L5	27-Apr-17
<i>Castilleja coccinea</i>	Indian paintbrush	5	5	5	5	20	LX	26-Mar-08
<i>Catalpa speciosa</i>	northern catalpa	3	ns	ns	ns	3	L+	26-Apr-17
<i>Caulophyllum giganteum</i>	long-styled blue cohosh	1	3	4	4	12	L4	26-Apr-17
<i>Caulophyllum thalictroides</i>	blue cohosh	3	3	4	5	15	L3	26-Apr-17
<i>Ceanothus americanus</i>	New Jersey tea	5	5	4	5	19	L1	3-Feb-12
<i>Ceanothus herbaceus</i>	narrow-leaved New Jersey tea	5	5	5	4	19	LX	26-Mar-08
<i>Celtis occidentalis</i>	hackberry	3	ns	ns	ns	3	L+	26-Apr-17
<i>Celastrus orbiculatus</i>	oriental bittersweet	2	ns	ns	ns	2	L+	25-Apr-16
<i>Celastrus scandens</i>	American bittersweet	2	4	3	5	14	L3	26-Apr-17
<i>Celastrus orbiculatus</i> x <i>scandens</i>	hybrid bittersweet	5	ns	ns	ns	5	L+	26-Apr-17
<i>Centaurea cyanus</i>	bachelor's button	5	ns	ns	ns	5	L+	11-Apr-03
<i>Centaurea diffusa</i>	diffuse knapweed	5	ns	ns	ns	5	L+	11-Apr-03
<i>Centaurea jacea</i>	brown knapweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Cenchrus longispinus</i>	sand-bur	5	ns	ns	ns	5	L+	25-Apr-16
<i>Centaurea macrocephala</i>	globe knapweed	5	ns	ns	ns	5	L+	29-Apr-15
<i>Centaurea stoebe</i> ssp. <i>micranthos</i>	spotted knapweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Centaurea montana</i>	montane knapweed	5	ns	ns	ns	5	L+	25-Apr-16
<i>Centaurea nigra</i>	black knapweed	4	ns	ns	ns	4	L+	16-Apr-14

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Centaureum pulchellum</i>	branching centaury	3	ns	ns	ns	3	L+	26-Apr-17
<i>Cephalanthus occidentalis</i>	buttonbush	3	4	4	3	14	L3	3-Feb-12
<i>Cerastium arvense</i> ssp. <i>arvense</i>	field chickweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Ceratophyllum demersum</i>	coontail	1	3	5	3	12	L4	26-Apr-17
<i>Cerastium fontanum</i>	mouse-ear chickweed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Cercidiphyllum japonicum</i>	katsura-tree	5	ns	ns	ns	5	L+	2-Jun-08
<i>Cerastium semidecandrum</i>	small chickweed	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cerastium tomentosum</i>	snow-on-the-mountain	4	ns	ns	ns	4	L+	26-Apr-17
<i>Chamaedaphne calyculata</i>	leatherleaf	3	4	4	4	15	L3	26-Apr-17
<i>Euphorbia glyptosperma</i>	ridge-seeded spurge	3	ns	ns	ns	3	L+?	26-Apr-17
<i>Chaenomeles japonica</i>	flowering quince	5	ns	ns	ns	5	L+	25-Apr-16
<i>Euphorbia maculata</i>	spotted spurge	3	ns	ns	ns	3	L+?	26-Apr-17
<i>Chaenorhinum minus</i> ssp. <i>minus</i>	dwarf snapdragon	3	ns	ns	ns	3	L+	26-Apr-17
<i>Euphorbia nutans</i>	nodding spurge	5	ns	ns	ns	5	L+?	11-Apr-03
<i>Euphorbia polygonifolia</i>	seaside spurge	5	4	5	4	18	L2	27-Mar-08
<i>Euphorbia serpyllifolia</i> ssp. <i>serpyllifolia</i>	thyme-leaved spurge	4	ns	ns	ns	4	L+	26-Apr-17
<i>Euphorbia vermiculata</i>	hairy spurge	4	ns	ns	ns	4	L+?	25-Apr-16
<i>Chenopodium album</i>	lamb's quarters	1	ns	ns	ns	1	L+	26-Apr-17
<i>Blitum bonus-henricus</i>	good King Henry	5	ns	ns	ns	5	L+	11-Apr-03
<i>Dysphania botrys</i>	Jerusalem-oak	5	ns	ns	ns	5	L+	11-Apr-03
<i>Blitum capitatum</i> ssp. <i>capitatum</i>	strawberry-blite	5	4	4	3	16	L3	26-Apr-17
<i>Chelone glabra</i>	turtlehead	2	3	4	5	14	L3	26-Apr-17
<i>Oxybasis glauca</i> ssp. <i>glauca</i>	oak-leaved goosefoot	2	ns	ns	ns	2	L+	26-Apr-17
<i>Chelidonium majus</i>	celandine	1	ns	ns	ns	1	L+	26-Apr-17
<i>Chelone obliqua</i>	slender pink turtlehead	5	ns	ns	ns	5	L+	27-Apr-17
<i>Chenopodium pratericola</i>	meadow goosefoot	4	ns	ns	ns	4	L+?	26-Apr-17
<i>Oxybasis rubra</i> var. <i>rubra</i>	red goosefoot	5	ns	ns	ns	5	L+?	26-Apr-17
<i>Chenopodiastrum simplex</i>	maple-leaved goosefoot	3	2	3	1	9	L5	26-Apr-17
<i>Chimaphila umbellata</i> ssp. <i>umbellata</i>	pipsissewa	4	4	5	5	18	L2	26-Apr-17
<i>Chrysosplenium americanum</i>	golden saxifrage	2	3	5	4	14	L3	25-Apr-16
<i>Leucanthemum vulgare</i>	ox-eye daisy	1	ns	ns	ns	1	L+	26-Apr-17
<i>Chrysanthemum maximum</i>	Shasta daisy	4	ns	ns	ns	4	L+	25-Apr-16
<i>Cicuta bulbifera</i>	bulblet-bearing water-hemlock	1	3	4	3	11	L4	26-Apr-17
<i>Cichorium intybus</i>	chicory	1	ns	ns	ns	1	L+	26-Apr-17
<i>Cicuta maculata</i>	spotted water-hemlock	1	2	2	2	7	L5	29-Apr-15
<i>Actaea racemosa</i>	black snakeroot	5	4	4	4	17	LX	27-Mar-08
<i>Cinna arundinacea</i>	tall wood reed	3	4	4	3	14	L3	26-Apr-17
<i>Cinna latifolia</i>	nodding wood reed	2	3	5	3	13	L4	26-Apr-17
<i>Circaea alpina</i>	smaller enchanter's nightshade	2	4	5	4	15	L3	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Cirsium arvense</i>	creeping thistle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Cirsium discolor</i>	pasture thistle	5	5	4	4	18	L2	25-Apr-16
<i>Circaea canadensis</i> ssp. <i>canadensis</i>	enchanter's nightshade	1	1	1	1	4	L5	26-Apr-17
<i>Cirsium muticum</i>	swamp thistle	5	5	4	5	19	L1	16-Apr-14
<i>Cirsium vulgare</i>	bull thistle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Citrullus colocynthis</i>	watermelon	5	ns	ns	ns	5	L+	11-Apr-03
<i>Claytonia caroliniana</i>	broad-leaved spring beauty	1	4	5	5	15	L3	26-Apr-17
<i>Cladium mariscoides</i>	twig-rush	5	5	5	5	20	L1	21-Jun-12
<i>Claytonia virginica</i>	narrow-leaved spring beauty	2	4	4	5	15	L3	26-Apr-17
<i>Tarenaya hassleriana</i>	spiderflower	5	ns	ns	ns	5	L+	3-Feb-12
<i>Clematis occidentalis</i> var. <i>occidentalis</i>	purple clematis	5	5	4	3	17	LX	1-Apr-08
<i>Clematis virginiana</i>	virgin's bower	1	2	2	3	8	L5	26-Apr-17
<i>Clintonia borealis</i>	bluebead lily	2	5	4	5	16	L3	16-Apr-14
<i>Clinopodium vulgare</i>	wild basil	2	3	1	3	9	L5	26-Apr-17
<i>Dactylorhiza viridis</i>	bracted green orchid	5	e	5	5	15	LX	3-Apr-08
<i>Collinsonia canadensis</i>	richweed	4	5	4	3	16	L3	1-Apr-08
<i>Commelina communis</i>	Asiatic dayflower	4	ns	ns	ns	4	L+	26-Apr-17
<i>Comptonia peregrina</i>	sweet-fern	5	5	5	5	20	L1	1-Apr-08
<i>Comandra umbellata</i>	comandra	4	2	5	5	16	L3	27-Feb-12
<i>Consolida ajacis</i>	larkspur	5	ns	ns	ns	5	L+	2-Jun-08
<i>Conopholis americana</i>	squaw-root	5	4	5	5	19	L1	25-Apr-16
<i>Convolvulus arvensis</i>	field bindweed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Erigeron canadensis</i>	horse-weed	1	1	2	0	4	L5	26-Apr-17
<i>Conium maculatum</i>	poison-hemlock	5	ns	ns	ns	5	L+	26-Apr-17
<i>Convallaria majalis</i>	lily-of-the-valley	1	ns	ns	ns	1	L+	26-Apr-17
<i>Conringia orientalis</i>	hare's ear mustard	5	ns	ns	ns	5	L+	11-Apr-03
<i>Coptis trifolia</i>	goldthread	2	5	5	5	17	L2	26-Apr-17
<i>Cornus alba</i>	Siberian dogwood	5	ns	ns	ns	5	L+	2-Jun-08
<i>Cornus alternifolia</i>	alternate-leaved dogwood	1	2	1	2	6	L5	26-Apr-17
<i>Corylus americana</i>	American hazel	5	4	4	3	16	L3	25-Apr-16
<i>Cornus obliqua</i>	silky dogwood	2	3	5	3	13	L4	26-Apr-17
<i>Corydalis aurea</i> ssp. <i>aurea</i>	golden corydalis	5	4	4	3	16	L3	1-Apr-08
<i>Corylus avellana</i>	European hazel	4	ns	ns	ns	4	L+	16-Apr-14
<i>Cornus canadensis</i>	bunchberry	3	5	5	5	18	L2	26-Apr-17
<i>Corylus cornuta</i>	beaked hazel	2	4	3	4	13	L4	21-Jun-12
<i>Cornus drummondii</i>	rough-leaved dogwood	5	ns	ns	ns	5	L+	2-Jun-08
<i>Cornus racemosa</i>	grey dogwood	2	2	3	2	9	L5	25-Apr-16
<i>Coreopsis grandiflora</i>	large-flowered tickseed	5	ns	ns	ns	5	L+	26-Apr-17
<i>Corispermum americanum</i> var. <i>americanum</i>	bugseed	5	ns	ns	ns	5	L+	11-Apr-03

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Corydalis intermedia</i>	pink European corydalis	5	ns	ns	ns	5	L+	16-Apr-14
<i>Coreopsis lanceolata</i>	lance-leaved coreopsis	4	ns	ns	ns	4	L+	26-Apr-17
<i>Corallorhiza maculata</i>	spotted coral-root	5	5	5	5	20	L1	26-Apr-17
<i>Cornus mas</i>	Cornelian-cherry	5	ns	ns	ns	5	L+	25-Apr-16
<i>Corylus maxima</i>	filbert	5	ns	ns	ns	5	L+	27-Apr-17
<i>Cornus rugosa</i>	round-leaved dogwood	2	4	4	3	13	L4	26-Apr-17
<i>Capnoides sempervirens</i>	pale corydalis	5	5	4	4	18	LX	3-Apr-08
<i>Lepidium coronopus</i>	small-scaled swine cress	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cornus stolonifera</i>	red osier dogwood	1	2	0	3	6	L5	26-Apr-17
<i>Corallorhiza striata</i>	striped coral-root	5	5	5	4	19	LX	3-Apr-08
<i>Corallorhiza trifida</i>	early coral-root	4	5	5	5	19	L1	29-Apr-15
<i>Coreopsis tripteris</i>	tall tickseed	5	ns	ns	ns	5	L+	26-Apr-17
<i>Securigera varia</i>	crown vetch	1	ns	ns	ns	1	L+	26-Apr-17
<i>Cosmos bipinnatus</i>	cosmos	5	ns	ns	ns	5	L+	26-Apr-17
<i>Cotoneaster acutifolius</i>	Peking cotoneaster	3	ns	ns	ns	3	L+	26-Apr-17
<i>Cotinus coggygria</i>	European smoke-tree	4	ns	ns	ns	4	L+	26-Apr-17
<i>Cotoneaster dammeri</i>	bearberry cotoneaster	5	ns	ns	ns	5	L+	16-Apr-14
<i>Cota tinctoria</i>	yellow chamomile	5	ns	ns	ns	5	L+	27-Apr-17
<i>Crataegus fluviatilis</i>	pear-shaped hawthorn	5	4	5	3	17	L2	3-Feb-12
<i>Crataegus brainerdii</i>	Brainerd's hawthorn	5	3	5	4	17	L2	28-Apr-14
<i>Crataegus calpodendron</i>	urn-fruited hawthorn	5	4	4	3	16	LX	2-Apr-08
<i>Crataegus chrysoarpa</i> var. <i>phoenicea</i>	glabrate fireberry hawthorn	3	3	4	4	14	L3	29-Apr-15
<i>Crataegus chrysoarpa</i> var. <i>chrysoarpa</i>	fireberry hawthorn	4	3	4	4	15	L3	29-Apr-15
<i>Crataegus chrysoarpa</i>	fireberry hawthorn (sensu lato)	4	3	4	3	14	L3	26-Apr-17
<i>Crataegus populnea</i>	adorned hawthorn	5	3	5	3	16	LX	2-Apr-08
<i>Crataegus coccinioides</i>	conspecta hawthorn	5	4	5	3	17	L2	26-Apr-17
<i>Crataegus coccinea</i> var. <i>fulleriana</i>	Fuller's hawthorn	3	3	5	3	14	L3	25-Apr-16
<i>Crataegus crus-galli</i>	cockspur hawthorn	5	4	5	4	18	L2	3-Feb-12
<i>Crataegus dodgei</i>	Dodge's hawthorn	5	4	5	3	17	LX	2-Apr-08
<i>Crataegus flabellata</i>	fan-leaved hawthorn	5	2	4	3	14	L3	2-Apr-08
<i>Crataegus holmesiana</i>	Holmes' hawthorn	2	3	4	3	12	L4	26-Apr-17
<i>Crataegus intricata</i>	Lang's hawthorn	5	2	5	3	15	LX	2-Apr-08
<i>Crataegus macracantha</i>	long-spined hawthorn	1	2	4	3	10	L5	27-Apr-17
<i>Crataegus macrosperma</i>	variable hawthorn	4	3	5	3	15	L3	25-Apr-16
<i>Crataegus mollis</i>	downy hawthorn	4	ns	ns	ns	4	L+?	29-Apr-15
<i>Crataegus monogyna</i>	English hawthorn	1	1	4	ns	6	L+	26-Apr-17
<i>Crataegus coccinea</i> var. <i>coccinea</i>	scarlet hawthorn	2	2	3	3	10	L5	26-Apr-17
<i>Crataegus coccinea</i> var. <i>pringlei</i>	Pringle's hawthorn	2	3	5	3	13	L4	26-Apr-17
<i>Crataegus pruinosa</i>	waxy hawthorn	5	2	4	3	14	L3	2-Apr-08

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Crataegus punctata</i>	dotted hawthorn	1	2	3	3	9	L5	26-Apr-17
<i>Crataegus schuettei</i>	rough hawthorn	5	2	4	3	14	L3	3-Feb-12
<i>Crataegus submollis</i>	Emerson's hawthorn	2	3	4	3	12	L4	26-Apr-17
<i>Crataegus succulenta</i>	fleshy hawthorn	5	3	4	3	15	L3	3-Feb-12
<i>Crataegus x ninae-celottiae</i>	English - dotted hybrid hawthorn	3	ns	ns	ns	3	L+	29-Apr-15
<i>Crepis tectorum</i>	narrow-leaved hawk's beard	3	ns	ns	ns	3	L+	26-Apr-17
<i>Crocus vernus</i>	crocus	4	ns	ns	ns	4	L+	29-Apr-15
<i>Cryptotaenia canadensis</i>	honewort	2	2	4	1	9	L5	29-Apr-15
<i>Cryptotaenia japonica</i>	Asiatic honewort	5	ns	ns	ns	5	L+	25-Apr-16
<i>Cucurbita pepo</i> ssp. <i>pepo</i>	gourd	5	ns	ns	ns	5	L+	25-Apr-16
<i>Cucumis melo</i>	melon	5	ns	ns	ns	5	L+	26-Apr-17
<i>Cucumis sativus</i>	cucumber	5	ns	ns	ns	5	L+	16-Apr-14
<i>Cuscuta campestris</i>	prairie dodder	5	4	5	2	16	L+?	22-Apr-08
<i>Cuscuta gronovii</i>	swamp dodder	2	3	3	3	11	L4	26-Apr-17
<i>Cycloloma atriplicifolium</i>	winged pigweed	5	ns	ns	ns	5	L+	7-Mar-08
<i>Cymbalaria muralis</i>	Kenilworth-ivy	5	ns	ns	ns	5	L+	16-Apr-14
<i>Andersonglossum virginianum</i>	northern hound's tongue	5	5	3	4	17	LX	3-Apr-08
<i>Cynosurus cristatus</i>	dog-tail	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cynodon dactylon</i>	Bermuda grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cynanchum louiseae</i>	black swallow-wort	5	ns	ns	ns	5	L+	16-Apr-14
<i>Cynoglossum officinale</i>	hound's tongue	2	ns	ns	ns	2	L+	26-Apr-17
<i>Cynanchum rossicum</i>	dog-strangling vine	1	ns	ns	ns	1	L+	26-Apr-17
<i>Cypripedium acaule</i>	moccasin flower	5	5	5	5	20	L1	29-Apr-15
<i>Cypripedium arietinum</i>	ram's head lady's slipper	5	5	5	5	20	LX	3-Apr-08
<i>Cyperus bipartitus</i>	two-parted umbrella-sedge	3	3	4	4	14	L3	25-Apr-16
<i>Cypripedium parviflorum</i> var. <i>makasin</i>	smaller yellow lady's slipper	2	4	4	5	15	L3	26-Apr-17
<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	larger yellow lady's slipper	3	4	5	4	16	L3	26-Apr-17
<i>Cyperus diandrus</i>	low umbrella-sedge	5	5	5	5	20	LX	2-Apr-08
<i>Cyperus erythrorhizos</i>	red-rooted umbrella sedge	5	2	5	4	16	L3	3-Feb-12
<i>Cyperus esculentus</i>	yellow nut-sedge	2	ns	ns	ns	2	L+?	26-Apr-17
<i>Cyperus fuscus</i>	brown umbrella-sedge	3	ns	ns	ns	3	L+	26-Apr-17
<i>Cyperus lupulinus</i>	slender umbrella-sedge	4	3	5	4	16	L3	25-Apr-16
<i>Cyperus odoratus</i>	fragrant umbrella-sedge	5	2	5	4	16	L3	2-Apr-08
<i>Cypripedium reginae</i>	showy lady's slipper	3	4	5	5	17	L2	21-Jun-12
<i>Cyperus schweinitzii</i>	Schweinitz's umbrella-sedge	5	4	5	4	18	L2	21-Jun-12
<i>Cyperus strigosus</i>	straw-coloured umbrella-sedge	4	2	5	4	15	L3	25-Apr-16
<i>Cystopteris bulbifera</i>	bulblet fern	2	3	4	4	13	L4	26-Apr-17
<i>Cystopteris fragilis</i>	northern fragile fern	5	ns	5	ns	10	LU	8-Apr-10
<i>Cystopteris tenuis</i>	Mackay's fragile fern	2	4	5	5	16	L3	21-Jun-12

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Cytisus scoparius</i>	Scotch broom	5	ns	ns	ns	5	L+	11-Apr-03
<i>Dactylis glomerata</i>	orchard grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Rubus repens</i>	Robin-run-away	4	3	5	4	16	L3	26-Apr-17
<i>Danthonia spicata</i>	poverty oat grass	2	3	3	4	12	L4	26-Apr-17
<i>Daphne mezereum</i>	daphne	3	ns	ns	ns	3	L+	25-Apr-16
<i>Datura stramonium</i>	jimsonweed	5	ns	ns	ns	5	L+	29-Apr-15
<i>Datura innoxia</i>	big-flowered jimsonweed	5	ns	ns	ns	5	L+	25-Apr-16
<i>Daucus carota</i>	Queen Anne's lace	1	ns	ns	ns	1	L+	26-Apr-17
<i>Decodon verticillatus</i>	swamp loosestrife	4	5	4	5	18	L2	16-Apr-14
<i>Dennstaedtia punctilobula</i>	hay-scented fern	5	4	5	4	18	L2	26-Apr-17
<i>Deparia acrostichoides</i>	silvery glade fern	3	4	5	4	16	L3	25-Apr-16
<i>Desmodium canadense</i>	showy tick-trefoil	2	2	3	3	10	L5	26-Apr-17
<i>Deschampsia cespitosa</i> ssp. <i>parviflora</i>	tufted hairgrass	5	ns	ns	ns	5	L+	25-Apr-16
<i>Avenella flexuosa</i>	common hairgrass	5	5	4	4	18	L2	3-Apr-08
<i>Hylodesmum glutinosum</i>	pointed-leaved tick-trefoil	3	4	4	5	16	L3	26-Apr-17
<i>Hylodesmum nudiflorum</i>	naked-flowered tick-trefoil	5	5	4	5	19	L1	29-Apr-15
<i>Desmodium dillenii</i>	panicled tick-trefoil	5	5	5	4	19	LX	16-Apr-08
<i>Descurainia pinnata</i> ssp. <i>brachycarpa</i>	tansy mustard	5	ns	ns	ns	5	L+	16-Apr-14
<i>Descurainia sophia</i>	flixweed	4	ns	ns	ns	4	L+	26-Apr-17
<i>Dianthus armeria</i>	Deptford pink	2	ns	ns	ns	2	L+	26-Apr-17
<i>Dianthus barbatus</i>	sweet William	4	ns	ns	ns	4	L+	26-Apr-17
<i>Dianthus deltoides</i>	maiden pink	5	ns	ns	ns	5	L+	11-Apr-03
<i>Dianthus plumarius</i>	garden pink	5	ns	ns	ns	5	L+	26-Apr-17
<i>Dicentra canadensis</i>	squirrel-corn	1	4	5	4	14	L3	26-Apr-17
<i>Dicentra cucullaria</i>	Dutchman's breeches	2	4	4	5	15	L3	26-Apr-17
<i>Lamprocapnos spectabilis</i>	bleeding hearts	4	ns	ns	ns	4	L+	29-Apr-15
<i>Diervilla lonicera</i>	bush honeysuckle	1	3	2	4	10	L5	25-Apr-16
<i>Digitaria ischaemum</i>	smooth crab grass	2	ns	ns	ns	2	L+	26-Apr-17
<i>Digitalis lanata</i>	Grecian foxglove	4	ns	ns	ns	4	L+	16-Apr-14
<i>Digitaria sanguinalis</i>	hairy crab grass	2	ns	ns	ns	2	L+	26-Apr-17
<i>Diphasiastrum digitatum</i>	crowfoot club-moss	3	4	5	5	17	L2	26-Apr-17
<i>Dipsacus fullonum</i>	teasel	1	ns	ns	ns	1	L+	26-Apr-17
<i>Diplotaxis muralis</i>	wall rocket	3	ns	ns	ns	3	L+	26-Apr-17
<i>Diplazium pycnocarpon</i>	glade fern	4	4	5	5	18	L2	26-Apr-17
<i>Diplotaxis tenuifolia</i>	slender-leaved wall rocket	4	ns	ns	ns	4	L+	26-Apr-17
<i>Diphasiastrum tristachyum</i>	ground-cedar	5	5	5	5	20	L1	25-Apr-16
<i>Dirca palustris</i>	leatherwood	2	4	5	4	15	L3	26-Apr-17
<i>Doronicum plantagineum</i>	leopard's bane	5	ns	ns	ns	5	L+	27-Apr-17
<i>Dracocephalum parviflorum</i>	American dragonhead	5	ns	ns	ns	5	L+	11-Apr-03

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Drosera intermedia</i>	spatulate-leaved sundew	5	5	5	4	19	LX	3-Apr-08
<i>Drosera rotundifolia</i>	round-leaved sundew	4	5	5	5	19	L1	16-Apr-14
<i>Dryopteris carthusiana</i>	spinulose wood fern	1	3	2	2	8	L5	26-Apr-17
<i>Dryopteris clintoniana</i>	Clinton's wood fern	2	4	5	4	15	L3	26-Apr-17
<i>Dryopteris cristata</i>	crested wood fern	1	4	4	4	13	L4	26-Apr-17
<i>Dryopteris filix-mas</i>	male fern	4	2	5	3	14	L3	26-Apr-17
<i>Dryopteris goldiana</i>	Goldie's fern	3	4	5	4	16	L3	26-Apr-17
<i>Dryopteris intermedia</i>	evergreen wood fern	1	4	4	3	12	L4	26-Apr-17
<i>Dryopteris marginalis</i>	marginal wood fern	1	3	3	4	11	L4	26-Apr-17
<i>Dryopteris x benedictii</i>	Benedict's wood fern	5	3	4	4	16	L3	3-Feb-12
<i>Dryopteris x boottii</i>	Boott's wood fern	4	ns	ns	ns	4	LH	26-Apr-17
<i>Dryopteris x dowellii</i>	Dowell's wood fern	5	ns	ns	ns	5	LH	11-Apr-03
<i>Dryopteris x neowherryi</i>	Goldie's - marginal hybrid wood fern	5	ns	ns	ns	5	LH	11-Apr-03
<i>Dryopteris x slossoniae</i>	Slosson's wood fern	5	ns	ns	ns	5	LH	11-Apr-03
<i>Dryopteris x triploidea</i>	confusing hybrid wood fern	2	2	3	3	10	L5	27-Apr-17
<i>Dryopteris x uliginosa</i>	spinulose-crested hybrid wood fern	5	3	5	4	17	L2	25-Apr-16
<i>Potentilla indica</i> var. <i>indica</i>	mock strawberry	4	ns	ns	ns	4	L+	29-Apr-15
<i>Dulichium arundinaceum</i>	three-way sedge	3	4	5	5	17	L2	26-Apr-17
<i>Echinochloa crus-galli</i>	barnyard grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Echinocystis lobata</i>	wild cucumber	1	2	3	1	7	L5	26-Apr-17
<i>Echinochloa muricata</i> var. <i>microstachya</i>	small-spiked barnyard grass	2	2	4	0	8	L5	26-Apr-17
<i>Echinacea purpurea</i>	purple coneflower	3	ns	ns	ns	3	L+	26-Apr-17
<i>Echinops sphaerocephalus</i>	common globe-thistle	3	ns	ns	ns	3	L+	26-Apr-17
<i>Echium vulgare</i>	viper's bugloss	1	ns	ns	ns	1	L+	26-Apr-17
<i>Eichhornia crassipes</i>	water-hyacinth	5	ns	ns	ns	5	L+	2-Jun-08
<i>Elaeagnus angustifolia</i>	Russian olive	2	ns	ns	ns	2	L+	26-Apr-17
<i>Elaeagnus commutata</i>	silver-berry	4	ns	ns	ns	4	L+	25-Apr-16
<i>Elaeagnus umbellata</i>	autumn olive	2	ns	ns	ns	2	L+	26-Apr-17
<i>Eleocharis acicularis</i>	needle spike-rush	3	2	4	5	14	L3	29-Apr-15
<i>Eleocharis elliptica</i>	elliptic spike-rush	5	3	5	4	17	L2	27-Feb-12
<i>Eleocharis erythropoda</i>	creeping spike-rush	1	2	4	1	8	L5	26-Apr-17
<i>Eleusine indica</i>	goose grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Eleocharis intermedia</i>	matted spike-rush	4	3	5	5	17	L2	21-Jun-12
<i>Eleocharis obtusa</i>	blunt spike-rush	3	4	5	2	14	L3	26-Apr-17
<i>Eleocharis flavescens</i> var. <i>olivacea</i>	olive-fruited spike-rush	5	5	5	5	20	L1	27-Feb-12
<i>Eleocharis quinqueflora</i>	few-flowered spike-rush	5	2	5	5	17	L2	25-Apr-16
<i>Eleocharis palustris</i>	Small's spike-rush	3	4	5	3	15	L3	26-Apr-17
<i>Elodea canadensis</i>	common water-weed	1	3	5	3	12	L4	26-Apr-17
<i>Elodea nuttallii</i>	Nuttall's water-weed	3	3	5	3	14	L3	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Elymus canadensis</i>	Canada wild rye	3	2	5	3	13	L4	26-Apr-17
<i>Elymus hystrix</i>	bottle-brush grass	2	3	4	3	12	L4	26-Apr-17
<i>Elymus repens</i>	quack grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Elymus riparius</i>	riverbank wild rye	2	2	4	4	12	L4	26-Apr-17
<i>Elymus trachycaulus</i>	slender wheat grass	5	4	4	5	18	L2	4-Apr-08
<i>Elymus villosus</i>	hairy wild rye	5	5	4	3	17	L2	3-Feb-12
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia wild rye	2	2	3	2	9	L5	26-Apr-17
<i>Elymus wiegandii</i>	Wiegand's wild rye	5	4	4	3	16	L3	4-Apr-08
<i>Chamerion angustifolium</i> ssp. <i>angustifolium</i>	fire-weed	4	4	4	4	16	L3	26-Apr-17
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	sticky willow-herb	1	2	2	2	7	L5	25-Apr-16
<i>Epilobium coloratum</i>	purple-leaved willow-herb	1	3	4	2	10	L5	26-Apr-17
<i>Epipactis helleborine</i>	helleborine	1	ns	ns	ns	1	L+	26-Apr-17
<i>Epilobium hirsutum</i>	European willow-herb	2	ns	ns	ns	2	L+	26-Apr-17
<i>Epilobium leptophyllum</i>	narrow-leaved willow-herb	2	5	4	4	15	L3	26-Apr-17
<i>Epilobium parviflorum</i>	small-flowered willow-herb	1	ns	ns	ns	1	L+	26-Apr-17
<i>Epigaea repens</i>	trailing arbutus	5	5	5	5	20	LX	22-Apr-14
<i>Epilobium strictum</i>	downy willow-herb	3	4	5	4	16	L3	26-Apr-17
<i>Epifagus virginiana</i>	beech-drops	2	3	5	2	12	L4	26-Apr-17
<i>Equisetum arvense</i>	field horsetail	1	2	1	1	5	L5	26-Apr-17
<i>Equisetum fluviatile</i>	water horsetail	2	4	5	4	15	L3	25-Apr-16
<i>Equisetum hyemale</i> ssp. <i>affine</i>	scouring-rush	1	2	2	2	7	L5	26-Apr-17
<i>Equisetum palustre</i>	marsh horsetail	5	5	5	4	19	L1	25-Apr-16
<i>Equisetum pratense</i>	thicket horsetail	2	4	5	3	14	L3	26-Apr-17
<i>Equisetum scirpoides</i>	dwarf scouring-rush	2	4	5	5	16	L3	26-Apr-17
<i>Equisetum sylvaticum</i>	woodland horsetail	2	3	5	4	14	L3	26-Apr-17
<i>Equisetum variegatum</i> ssp. <i>variegatum</i>	variegated scouring-rush	2	2	5	4	13	L4	25-Apr-16
<i>Equisetum x litorale</i>	shore horsetail	5	3	4	3	15	L3	28-Apr-14
<i>Equisetum x mackayi</i>	Mack's horsetail	5	2	4	3	14	L3	16-Apr-14
<i>Equisetum x nelsonii</i>	Nelson's horsetail	4	3	5	3	15	L3	25-Apr-16
<i>Eragrostis cilianensis</i>	stink grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Eragrostis frankii</i>	Frank's love grass	4	2	5	3	14	L+?	25-Apr-16
<i>Eragrostis hypnoides</i>	moss-like love grass	5	2	5	3	15	L3	3-Feb-12
<i>Eragrostis minor</i>	little love grass	3	ns	ns	ns	3	L+	26-Apr-17
<i>Eragrostis pectinacea</i> var. <i>pectinacea</i>	tufted love grass	4	1	4	3	12	L+?	16-Apr-14
<i>Eragrostis spectabilis</i>	purple love grass	5	3	5	4	17	L+?	21-Jun-12
<i>Erechtites hieraciifolius</i> var. <i>hieraciifolius</i>	burnweed	5	5	3	4	17	L2	26-Apr-17
<i>Erigeron annuus</i>	daisy fleabane	1	2	0	1	4	L5	26-Apr-17
<i>Erigenia bulbosa</i>	harbinger-of-spring	5	5	4	4	18	LX	7-Apr-08
<i>Eriophorum gracile</i>	slender cotton-grass	5	5	5	4	19	L1	7-Apr-08

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Erigeron philadelphicus</i> var. <i>philadelphicus</i>	Philadelphia fleabane	1	2	0	1	4	L5	26-Apr-17
<i>Erigeron pulchellus</i>	Robin's plantain	4	5	4	5	18	L2	3-Feb-12
<i>Erigeron strigosus</i>	rough fleabane	2	2	1	1	6	L5	25-Apr-16
<i>Eriophorum tenellum</i>	rough cotton-grass	5	4	5	5	19	L1	3-Feb-12
<i>Eriophorum vaginatum</i> ssp. <i>spissum</i>	dense cotton-grass	5	4	5	5	19	L1	3-Feb-12
<i>Eriophorum virginicum</i>	tawny cotton-grass	4	4	5	5	18	L2	16-Apr-14
<i>Eriophorum viridicarinatum</i>	thin-leaved cotton-grass	4	4	5	5	18	L2	21-Jun-12
<i>Erodium cicutarium</i> ssp. <i>cutarium</i>	filaree	5	ns	ns	ns	5	L+	11-Apr-03
<i>Draba verna</i>	spring whitlow-grass	4	ns	ns	ns	4	L+	26-Apr-17
<i>Erucastrum gallicum</i>	dog mustard	3	ns	ns	ns	3	L+	26-Apr-17
<i>Erythronium albidum</i>	white trout-lily	4	3	4	4	15	L3	25-Apr-16
<i>Erythronium americanum</i> ssp. <i>americanum</i>	yellow trout-lily	1	3	3	2	9	L5	26-Apr-17
<i>Erysimum capitatum</i>	western wallflower	5	ns	ns	ns	5	L+	6-Apr-10
<i>Erysimum cheiranthoides</i>	wormseed mustard	2	ns	ns	ns	2	L+	26-Apr-17
<i>Erysimum hieraciifolium</i>	hawkweed-leaved mustard	3	ns	ns	ns	3	L+	26-Apr-17
<i>Erysimum inconspicuum</i>	small-flowered prairie rocket	5	ns	ns	ns	5	L+	7-Apr-08
<i>Eryngium planum</i>	flat sea-holly	5	ns	ns	ns	5	L+	2-Jun-08
<i>Euonymus alatus</i>	winged spindle-tree	3	ns	ns	ns	3	L+	25-Apr-16
<i>Euonymus atropurpureus</i>	burning bush	5	5	4	3	17	L2	7-Apr-08
<i>Euonymus europaeus</i>	European spindle-tree	2	ns	ns	ns	2	L+	26-Apr-17
<i>Euonymus fortunei</i>	wintercreeper euonymus	2	ns	ns	ns	2	L+	26-Apr-17
<i>Euonymus obovatus</i>	running strawberry-bush	2	4	4	4	14	L3	26-Apr-17
<i>Eupatorium altissimum</i>	tall boneset	4	ns	ns	ns	4	L+	25-Apr-16
<i>Euphorbia cyparissias</i>	cypress spurge	2	ns	ns	ns	2	L+	26-Apr-17
<i>Euphorbia dentata</i>	toothed spurge	5	ns	ns	ns	5	L+	11-Apr-03
<i>Euphorbia esula</i>	leafy spurge	4	ns	ns	ns	4	L+	26-Apr-17
<i>Eutrochium fistulosum</i>	hollow-stemmed Joe-Pye weed	4	ns	ns	ns	4	L+	25-Apr-16
<i>Euphorbia helioscopia</i>	sun spurge	4	ns	ns	ns	4	L+	25-Apr-16
<i>Euphorbia hirta</i>	asthma spurge	5	ns	ns	ns	5	L+	25-Apr-16
<i>Eutrochium maculatum</i> var. <i>maculatum</i>	spotted Joe-Pye weed	1	2	3	3	9	L5	16-Apr-14
<i>Euphorbia marginata</i>	snow-on-the-mountain	5	ns	ns	ns	5	L+	11-Apr-03
<i>Euphorbia peplus</i>	petty spurge	4	ns	ns	ns	4	L+	26-Apr-17
<i>Eupatorium perfoliatum</i>	boneset	1	3	4	3	11	L4	26-Apr-17
<i>Euphorbia platyphyllos</i>	broad-leaved spurge	5	ns	ns	ns	5	L+	11-Apr-03
<i>Eutrochium purpureum</i> var. <i>purpureum</i>	sweet Joe-Pye weed	5	5	4	4	18	L2	16-Apr-14
<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	1	2	2	1	6	L5	26-Apr-17
<i>Euphrasia stricta</i>	European eyebright	5	ns	ns	ns	5	L+	2-Jun-08
<i>Euphorbia virgata</i>	Russian leafy spurge	5	ns	ns	ns	5	L+	25-Apr-16
<i>Euphorbia x pseudoesula</i>	hybrid spurge	5	ns	ns	ns	5	L+	11-Apr-03

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Euthamia graminifolia</i>	grass-leaved goldenrod	1	1	4	1	7	L5	26-Apr-17
<i>Fagopyrum esculentum</i>	buckwheat	5	ns	ns	ns	5	L+	11-Apr-03
<i>Fagus grandifolia</i>	American beech	1	4	3	4	12	L4	26-Apr-17
<i>Lolium arundinaceum</i>	tall fescue	2	ns	ns	ns	2	L+	26-Apr-17
<i>Festuca filiformis</i>	hair fescue	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lolium pratense</i>	meadow fescue	1	ns	ns	ns	1	L+	26-Apr-17
<i>Festuca rubra</i> ssp. <i>rubra</i>	red fescue	1	ns	ns	ns	1	L+	26-Apr-17
<i>Festuca subverticillata</i>	nodding fescue	3	2	4	3	12	L4	26-Apr-17
<i>Festuca trachyphylla</i>	hard fescue	3	ns	ns	ns	3	L+	26-Apr-17
<i>Filipendula rubra</i>	queen-of-the-prairie	5	ns	ns	ns	5	L+	16-Apr-14
<i>Filipendula ulmaria</i>	queen-of-the-meadow	5	ns	ns	ns	5	L+	16-Apr-14
<i>Filipendula vulgaris</i>	dropwort	5	ns	ns	ns	5	L+	16-Apr-14
<i>Floerkea proserpinacoides</i>	false mermaid	5	4	4	4	17	L2	2-Jun-08
<i>Forsythia suspensa</i>	weeping forsythia	3	ns	ns	ns	3	L+	25-Apr-16
<i>Forsythia viridissima</i>	forsythia	2	ns	ns	ns	2	L+	26-Apr-17
<i>Fraxinus americana</i>	white ash	1	5	0	3	9	L5	26-Apr-17
<i>Fraxinus excelsior</i>	European ash	3	ns	ns	ns	3	L+	26-Apr-17
<i>Fraxinus nigra</i>	black ash	1	4	4	3	12	L4	16-Apr-14
<i>Fraxinus pennsylvanica</i>	red ash	1	5	0	3	9	L5	26-Apr-17
<i>Fraxinus quadrangulata</i>	blue ash	5	ns	ns	ns	5	L+	27-Apr-17
<i>Fragaria vesca</i> ssp. <i>americana</i>	woodland strawberry	2	2	2	2	8	L5	26-Apr-17
<i>Fragaria virginiana</i> ssp. <i>glauca</i>	blue-leaved wild strawberry	2	2	0	2	6	L5	26-Apr-17
<i>Fragaria virginiana</i>	wild strawberry (sensu lato)	1	2	0	2	5	L5	26-Apr-17
<i>Fragaria virginiana</i> ssp. <i>virginiana</i>	common wild strawberry	1	2	0	2	5	L5	26-Apr-17
<i>Fragaria x ananassa</i>	domestic strawberry	5	ns	ns	ns	5	L+	26-Apr-17
<i>Fritillaria meleagris</i>	snake-lily	5	ns	ns	ns	5	L+	2-Jun-08
<i>Fumaria officinalis</i>	common fumitory	5	ns	ns	ns	5	L+	11-Apr-03
<i>Gaillardia aristata</i>	blanket-flower	5	ns	ns	ns	5	L+	25-Apr-16
<i>Galium aparine</i>	cleavers	1	1	3	2	7	L5	26-Apr-17
<i>Galium asprellum</i>	rough bedstraw	2	2	4	2	10	L5	26-Apr-17
<i>Galium boreale</i>	northern bedstraw	3	4	4	3	14	L3	29-Apr-15
<i>Galium circaeazans</i>	white wild licorice	5	4	4	3	16	L3	26-Apr-17
<i>Galium labradoricum</i>	Labrador bedstraw	5	5	5	4	19	L1	29-Apr-15
<i>Galium lanceolatum</i>	wild licorice	3	5	4	3	15	L3	21-Jun-12
<i>Galium mollugo</i>	white bedstraw	2	ns	ns	ns	2	L+	26-Apr-17
<i>Galanthus nivalis</i>	snowdrop	5	ns	ns	ns	5	L+	7-Mar-08
<i>Galium obtusum</i>	obtuse bedstraw	5	3	4	3	15	L3	16-Apr-14
<i>Galium odoratum</i>	sweet woodruff	3	ns	ns	ns	3	L+	26-Apr-17
<i>Galega officinalis</i>	goat's-rue	5	ns	ns	ns	5	L+	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Galium palustre</i>	marsh bedstraw	1	2	3	3	9	L5	29-Apr-15
<i>Galinsoga parviflora</i>	small-flowered galinsoga	5	ns	ns	ns	5	L+	29-Apr-15
<i>Galinsoga quadriradiata</i>	hairy galinsoga	3	ns	ns	ns	3	L+	25-Apr-16
<i>Galium rivale</i>	riverbank bedstraw	5	ns	ns	ns	5	L+	2-Jun-08
<i>Galeopsis speciosa</i>	large-flowered hemp-nettle	5	ns	ns	ns	5	L+	25-Apr-16
<i>Galearis spectabilis</i>	showy orchis	5	5	5	5	20	L1	26-Apr-17
<i>Galium sylvaticum</i>	wood bedstraw	5	ns	ns	ns	5	L+	21-Jun-12
<i>Galeopsis tetrahit</i>	hemp-nettle	2	ns	ns	ns	2	L+	29-Apr-15
<i>Galium tinctorium</i>	stiff marsh bedstraw	3	4	4	3	14	L3	25-Apr-16
<i>Galium trifidum</i> ssp. <i>trifidum</i>	small bedstraw	2	4	4	3	13	L4	26-Apr-17
<i>Galium triflorum</i>	sweet-scented bedstraw	1	2	2	2	7	L5	26-Apr-17
<i>Galium verum</i>	yellow bedstraw	2	ns	ns	ns	2	L+	26-Apr-17
<i>Oenothera gaura</i>	biennial gaura	5	5	4	4	18	LX	8-Apr-08
<i>Gaultheria hispidula</i>	creeping snowberry	4	5	5	5	19	L1	3-Feb-12
<i>Gaultheria procumbens</i>	wintergreen	3	5	4	5	17	L2	26-Apr-17
<i>Gaylussacia baccata</i>	black huckleberry	4	4	4	5	17	L2	26-Apr-17
<i>Gentiana andrewsii</i> f. <i>albiflora</i>	white bottle gentian	5	3	4	5	17	L2	28-Apr-14
<i>Gentiana andrewsii</i>	bottle gentian	3	4	4	5	16	L3	16-Apr-14
<i>Gentianopsis crinita</i>	fringed gentian	3	4	5	5	17	L2	16-Apr-14
<i>Gentiana puberulenta</i>	downy gentian	5	5	5	5	20	LX	8-Apr-08
<i>Gentianella quinquefolia</i>	stiff gentian	5	5	5	5	20	L1	7-Mar-08
<i>Geranium bicknellii</i>	Bicknell's cranesbill	5	4	4	4	17	L2	26-Apr-17
<i>Geranium macrorrhizum</i>	zdravets	5	ns	ns	ns	5	L+	27-Apr-17
<i>Geranium maculatum</i>	wild geranium	2	3	4	3	12	L4	29-Apr-15
<i>Geranium molle</i>	dove's-foot cranesbill	5	ns	ns	ns	5	L+	27-Apr-17
<i>Geranium phaeum</i>	mourning cranesbill	4	ns	ns	ns	4	L+	26-Apr-17
<i>Geranium robertianum</i>	herb Robert	1	ns	ns	ns	1	L+?	26-Apr-17
<i>Geranium sanguineum</i>	bloody crane's bill	5	ns	ns	ns	5	L+	2-Jun-08
<i>Geranium sibiricum</i>	Siberian crane's bill	5	ns	ns	ns	5	L+	27-Apr-17
<i>Geum aleppicum</i>	yellow avens	1	3	3	2	9	L5	26-Apr-17
<i>Geum canadense</i>	white avens	1	2	1	2	6	L5	26-Apr-17
<i>Geum laciniatum</i>	cut-leaved avens	3	3	4	2	12	L4	26-Apr-17
<i>Geum rivale</i>	water avens	3	4	5	4	16	L3	25-Apr-16
<i>Geum triflorum</i>	Prairie Smoke	5	ns	ns	ns	5	L+	16-Apr-14
<i>Geum urbanum</i>	urban avens	1	ns	ns	ns	1	L+	26-Apr-17
<i>Glechoma hederacea</i>	creeping Charlie	1	ns	ns	ns	1	L+	26-Apr-17
<i>Gleditsia triacanthos</i>	honey locust	3	ns	ns	ns	3	L+	26-Apr-17
<i>Glyceria borealis</i>	northern manna grass	2	3	5	5	15	L3	29-Apr-15
<i>Glyceria canadensis</i>	rattlesnake grass	3	4	5	5	17	L2	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Glyceria grandis</i>	tall manna grass	1	3	4	2	10	L5	26-Apr-17
<i>Glyceria maxima</i>	giant manna grass	4	ns	ns	ns	4	L+	26-Apr-17
<i>Glyceria septentrionalis</i>	eastern manna grass	2	3	5	4	14	L3	25-Apr-16
<i>Glyceria striata</i>	fowl manna grass	1	2	1	2	6	L5	25-Apr-16
<i>Pseudognaphalium macounii</i>	viscid cudweed	5	4	5	4	18	L2	11-Apr-03
<i>Pseudognaphalium obtusifolium</i>	fragrant cudweed	4	4	5	4	17	L2	25-Apr-16
<i>Gnaphalium uliginosum</i>	low cudweed	4	ns	ns	ns	4	L+	25-Apr-16
<i>Goodyera pubescens</i>	downy rattlesnake-plantain	5	5	5	5	20	L1	26-Apr-17
<i>Goodyera repens</i>	dwarf rattlesnake-plantain	5	5	5	4	19	LX	8-Apr-08
<i>Gratiola neglecta</i>	clammy hedge-hyssop	5	4	5	4	18	L2	3-Feb-12
<i>Grindelia squarrosa</i>	gumweed	5	ns	ns	ns	5	L+	11-Apr-03
<i>Gymnocladus dioica</i>	Kentucky coffee-tree	4	ns	ns	ns	4	L+	26-Apr-17
<i>Gymnocarpium dryopteris</i>	oak fern	2	3	5	5	15	L3	26-Apr-17
<i>Gypsophila paniculata</i>	baby's breath	5	ns	ns	ns	5	L+	11-Apr-03
<i>Hackelia deflexa</i>	nodding stickseed	4	5	4	4	17	L2	16-Apr-14
<i>Hackelia virginiana</i>	Virginia stickseed	1	2	0	2	5	L5	26-Apr-17
<i>Hamamelis virginiana</i>	witch-hazel	2	4	4	4	14	L3	26-Apr-17
<i>Houstonia caerulea</i>	bluets	5	5	4	5	19	LX	9-Apr-08
<i>Hedera helix</i>	English ivy	3	ns	ns	ns	3	L+	26-Apr-17
<i>Hedeoma hispida</i>	rough pennyroyal	5	5	4	4	18	L2	11-Apr-03
<i>Houstonia longifolia</i>	long-leaved bluets	5	5	5	3	18	L2	9-Apr-08
<i>Hedeoma pulegioides</i>	American pennyroyal	5	4	4	4	17	L2	28-Feb-12
<i>Helianthus annuus</i>	common sunflower	3	ns	ns	ns	3	L+	26-Apr-17
<i>Helenium autumnale</i>	sneezeweed	5	ns	ns	ns	5	L+?	29-Apr-15
<i>Crocanthemum bicknellii</i>	Bicknell's frostweed	5	5	4	5	19	L1	28-Feb-12
<i>Crocanthemum canadense</i>	frostweed	5	5	5	5	20	L1	28-Feb-12
<i>Helianthus decapetalus</i>	thin-leaved sunflower	4	3	4	3	14	L3	26-Apr-17
<i>Helianthus divaricatus</i>	woodland sunflower	4	3	4	4	15	L3	21-Jun-12
<i>Helianthus giganteus</i>	tall sunflower	5	2	4	3	14	LX	9-Apr-08
<i>Heliopsis helianthoides</i>	ox-eye	5	5	4	4	18	L2	9-Apr-08
<i>Helianthus maximiliani</i>	Maximilian's sunflower	5	ns	ns	ns	5	L+	16-Apr-14
<i>Helianthus pauciflorus</i> ssp. <i>subrhomboideus</i>	prairie sunflower	5	ns	ns	ns	5	L+	25-Apr-16
<i>Helianthus strumosus</i>	pale-leaved sunflower	4	2	4	3	13	L4	25-Apr-16
<i>Helianthus tuberosus</i>	Jerusalem artichoke	2	1	2	0	5	L5	26-Apr-17
<i>Hemerocallis fulva</i>	orange day-lily	1	ns	ns	ns	1	L+	26-Apr-17
<i>Hemerocallis lilioasphodelus</i>	yellow day-lily	4	ns	ns	ns	4	L+	26-Apr-17
<i>Heracleum maximum</i>	cow-parsnip	2	2	3	2	9	L5	26-Apr-17
<i>Heracleum mantegazzianum</i>	giant hog-weed	4	ns	ns	ns	4	L+	26-Apr-17
<i>Heracleum sphondylium</i>	hog-parsnip	5	ns	ns	ns	5	L+	11-Apr-03

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Hesperis matronalis</i>	dame's rocket	1	ns	ns	ns	1	L+	26-Apr-17
<i>Heteranthera dubia</i>	water star-grass	4	3	5	5	17	L2	26-Apr-17
<i>Hibiscus moscheutos</i>	swamp rose-mallow	5	4	5	4	18	L+?	26-Apr-17
<i>Hibiscus syriacus</i>	rose-of-Sharon	5	ns	ns	ns	5	L+	25-Apr-16
<i>Hibiscus trionum</i>	flower-of-an-hour	5	ns	ns	ns	5	L+	26-Apr-17
<i>Pilosella aurantiaca</i>	orange hawkweed	3	ns	ns	ns	3	L+	25-Apr-16
<i>Pilosella caespitosa</i>	yellow hawkweed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Pilosella flagellaris</i>	flagellate hawkweed	5	ns	ns	ns	5	L+	27-Apr-17
<i>Hieracium umbellatum</i>	Canada hawkweed	5	2	4	5	16	L3	9-Apr-08
<i>Hieracium vulgatum</i>	blotched hawkweed	3	ns	ns	ns	3	L+	16-Apr-14
<i>Hieracium murorum</i>	wall hawkweed	5	ns	ns	ns	5	L+	11-Apr-03
<i>Anthoxanthum nitens</i> ssp. <i>nitens</i>	sweet grass	5	5	4	5	19	L1	26-Apr-17
<i>Pilosella officinarum</i>	mouse-ear hawkweed	3	ns	ns	ns	3	L+	26-Apr-17
<i>Pilosella piloselloides</i>	smooth yellow hawkweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Pilosella piloselloides</i> ssp. <i>praealta</i>	tall yellow hawkweed	5	ns	ns	ns	5	L+	11-Apr-03
<i>Hieracium scabrum</i>	rough hawkweed	5	4	4	4	17	LX	16-Apr-08
<i>Hieracium venosum</i>	rattlesnake-weed	5	2	5	4	16	LU	8-Apr-10
<i>Pilosella x floribunda</i>	smoothish hawkweed	3	ns	ns	ns	3	L+	26-Apr-17
<i>Hippophae rhamnoides</i>	sea-buckthorn	3	ns	ns	ns	3	L+	26-Apr-17
<i>Hippuris vulgaris</i>	mare's tail	5	5	5	4	19	LX	9-Apr-08
<i>Holcus lanatus</i>	velvet grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Holosteum umbellatum</i>	jagged chickweed	5	ns	ns	ns	5	L+	11-Apr-03
<i>Hordeum jubatum</i> ssp. <i>jubatum</i>	squirrel-tail barley	2	ns	ns	ns	2	L+	26-Apr-17
<i>Hordeum vulgare</i>	barley	4	ns	ns	ns	4	L+	16-Apr-14
<i>Hosta ventricosa</i>	hosta	3	ns	ns	ns	3	L+	26-Apr-17
<i>Humulus japonicus</i>	Japanese hops	4	ns	ns	ns	4	L+	26-Apr-17
<i>Humulus lupulus</i>	common hops	3	ns	ns	ns	3	L+?	29-Apr-15
<i>Huperzia lucidula</i>	shining club-moss	3	5	5	5	18	L2	16-Apr-14
<i>Hyacinthoides hispanica</i>	Spanish bluebell	5	ns	ns	ns	5	L+	16-Apr-14
<i>Hyacinthus orientalis</i>	hyacinth	5	ns	ns	ns	5	L+	16-Apr-14
<i>Hydrocotyle americana</i>	marsh pennywort	2	3	4	4	13	L4	25-Apr-16
<i>Hydrophyllum canadense</i>	Canada waterleaf	2	3	5	4	14	L3	26-Apr-17
<i>Hydrangea macrophylla</i>	big-leaved hydrangea	4	ns	ns	ns	4	L+	26-Apr-17
<i>Hydrocharis morsus-ranae</i>	European frog-bit	4	ns	ns	ns	4	L+	26-Apr-17
<i>Hydrophyllum virginianum</i>	Virginia waterleaf	1	2	1	2	6	L5	26-Apr-17
<i>Hyoscyamus niger</i>	black henbane	5	ns	ns	ns	5	L+	11-Apr-03
<i>Hypericum ascyron</i>	great St. John's-wort	3	4	5	2	14	L3	26-Apr-17
<i>Hypericum canadense</i>	Canada St. John's-wort	5	4	4	5	18	L2	25-Apr-16
<i>Hypochaeris radicata</i>	cat's ear	5	ns	ns	ns	5	L+	16-Apr-14

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Hypericum hirsutum</i>	hairy St. John's-wort	5	ns	ns	ns	5	L+	16-Apr-14
<i>Hypoxis hirsuta</i>	yellow star-grass	5	5	5	5	20	LX	16-Apr-14
<i>Hypericum majus</i>	larger Canada St. John's-wort	4	4	4	5	17	L2	25-Apr-16
<i>Hypericum perforatum</i>	common St. John's-wort	1	ns	ns	ns	1	L+	26-Apr-17
<i>Hypericum prolificum</i>	shrubby St. John's-wort	5	5	5	4	19	L1	9-Apr-08
<i>Hypericum punctatum</i>	spotted St. John's-wort	4	4	4	5	17	L2	26-Apr-17
<i>Hyssopus officinalis</i>	hyssop	5	ns	ns	ns	5	L+	11-Apr-03
<i>Iberis umbellata</i>	globe candytuft	5	ns	ns	ns	5	L+	25-Apr-16
<i>Ilex verticillata</i>	winterberry	2	4	4	5	15	L3	21-Jun-12
<i>Impatiens balsamina</i>	garden balsam	5	ns	ns	ns	5	L+	16-Apr-14
<i>Impatiens capensis</i>	orange touch-me-not	1	2	0	2	5	L5	26-Apr-17
<i>Impatiens glandulifera</i>	Himalayan balsam	2	ns	ns	ns	2	L+	26-Apr-17
<i>Impatiens pallida</i>	yellow touch-me-not	2	3	4	2	11	L4	22-Apr-14
<i>Inula britannica</i>	British elecampane	5	ns	ns	ns	5	L+	11-Apr-03
<i>Inula helenium</i>	elecampane	1	ns	ns	ns	1	L+	26-Apr-17
<i>Ipomoea hederacea</i>	ivy-leaved morning-glory	5	ns	ns	ns	5	L+	11-Apr-03
<i>Ipomoea purpurea</i>	common morning-glory	4	ns	ns	ns	4	L+	25-Apr-16
<i>Iris germanica</i>	garden iris	3	ns	ns	ns	3	L+	26-Apr-17
<i>Iris pseudacorus</i>	yellow flag	2	ns	ns	ns	2	L+	26-Apr-17
<i>Iris sibirica</i>	Siberian blue flag	4	ns	ns	ns	4	L+	26-Apr-17
<i>Iris versicolor</i>	blue flag	1	5	4	5	15	L3	25-Apr-16
<i>Iris virginica</i> var. <i>shrevei</i>	southern blue flag	4	2	4	3	13	L4	25-Apr-16
<i>Isatis tinctoria</i>	dyer's woad	5	ns	ns	ns	5	L+	11-Apr-03
<i>Cyclachaena xanthiifolia</i>	marsh-elder	5	ns	ns	ns	5	L+	11-Apr-03
<i>Jeffersonia diphylla</i>	twinleaf	5	3	4	5	17	L2	25-Apr-16
<i>Juglans ailantifolia</i>	Japanese walnut	3	ns	ns	ns	3	L+	25-Apr-16
<i>Juglans cinerea</i>	butternut	1	5	4	4	14	L3	26-Apr-17
<i>Juglans nigra</i>	black walnut	1	1	2	1	5	L5	26-Apr-17
<i>Juglans regia</i>	English walnut	5	ns	ns	ns	5	L+	26-Apr-17
<i>Juglans x bixbyi</i>	buartnut	3	ns	ns	ns	3	L+	26-Apr-17
<i>Juncus acuminatus</i>	sharp-fruited rush	4	4	5	4	17	L2	25-Apr-16
<i>Juncus alpinoarticulatus</i>	Richardson's rush	4	3	4	3	14	L3	25-Apr-16
<i>Juncus articulatus</i>	jointed rush	1	2	4	2	9	L5	26-Apr-17
<i>Juncus balticus</i> ssp. <i>littoralis</i>	Baltic rush	3	2	5	2	12	L4	25-Apr-16
<i>Juncus brachycephalus</i>	small-headed rush	5	3	5	4	17	L2	7-Mar-08
<i>Juncus brevicaudatus</i>	short-tailed rush	5	3	5	4	17	L2	11-Apr-03
<i>Juncus bufonius</i>	toad rush	2	1	4	1	8	L5	26-Apr-17
<i>Juncus canadensis</i>	Canada rush	4	4	5	5	18	L2	29-Apr-15
<i>Juniperus chinensis</i>	Chinese juniper	3	ns	ns	ns	3	L+	16-Apr-14

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Juniperus communis</i> var. <i>depressa</i>	common juniper	2	3	4	5	14	L3	26-Apr-17
<i>Juncus compressus</i>	round-fruited rush	2	ns	ns	ns	2	L+	26-Apr-17
<i>Juncus dudleyi</i>	Dudley's rush	1	2	3	1	7	L5	26-Apr-17
<i>Juncus effusus</i>	soft rush	1	4	4	3	12	L4	26-Apr-17
<i>Juncus gerardii</i>	black-grass rush	5	ns	ns	ns	5	L+	11-Apr-03
<i>Juniperus horizontalis</i>	creeping juniper	5	2	5	5	17	L2	21-Jun-12
<i>Juniperus horizontalis</i> x <i>virginiana</i>	hybrid juniper	5	2	4	4	15	L3	16-Apr-14
<i>Juncus nodosus</i>	knotted rush	2	2	5	3	12	L4	26-Apr-17
<i>Juniperus sabina</i>	savin juniper	4	ns	ns	ns	4	L+	25-Apr-16
<i>Juncus tenuis</i>	path rush	1	2	1	1	5	L5	26-Apr-17
<i>Juncus torreyi</i>	Torrey's rush	2	3	4	2	11	L4	16-Apr-14
<i>Juniperus virginiana</i>	red cedar	1	2	4	3	10	L5	26-Apr-17
<i>Juniperus</i> x <i>pfitzeriana</i>	pfitzer juniper	3	ns	ns	ns	3	L+	25-Apr-16
<i>Kalmia polifolia</i>	bog laurel	4	5	5	4	18	L2	16-Apr-14
<i>Kerria japonica</i>	Japanese kerria	4	ns	ns	ns	4	L+	26-Apr-17
<i>Kickxia elatine</i>	cancer-wort?	5	ns	ns	ns	5	L+	26-Apr-17
<i>Knautia arvensis</i>	field scabious	5	ns	ns	ns	5	L+	16-Apr-14
<i>Bassia scoparia</i>	summer-cypress	3	ns	ns	ns	3	L+	26-Apr-17
<i>Kolkwitzia amabilis</i>	beauty bush	5	ns	ns	ns	5	L+	26-Apr-17
<i>Koelreuteria paniculata</i>	golden-rain tree	5	ns	ns	ns	5	L+	2-Jun-08
<i>Lactuca biennis</i>	tall blue lettuce	2	4	2	4	12	L4	26-Apr-17
<i>Lactuca canadensis</i>	wild lettuce	3	3	2	3	11	L4	26-Apr-17
<i>Mycelis muralis</i>	wall lettuce	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lactuca saligna</i>	willow-leaved lettuce	5	ns	ns	ns	5	L+	25-Apr-16
<i>Lactuca serriola</i>	prickly lettuce	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lamium amplexicaule</i>	henbit	4	ns	ns	ns	4	L+	26-Apr-17
<i>Lamiastrum galeobdolon</i>	golden archangel	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lamium maculatum</i>	spotted dead-nettle	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lamium purpureum</i>	purple dead-nettle	4	ns	ns	ns	4	L+	26-Apr-17
<i>Laportea canadensis</i>	wood nettle	1	3	2	2	8	L5	25-Apr-16
<i>Lapsana communis</i>	nipplewort	2	ns	ns	ns	2	L+	26-Apr-17
<i>Lappula squarrosa</i>	Eurasian stickseed	4	ns	ns	ns	4	L+	25-Apr-16
<i>Larix decidua</i>	European larch	3	ns	ns	ns	3	L+	26-Apr-17
<i>Larix laricina</i>	tamarack	2	4	4	4	14	L3	26-Apr-17
<i>Larix</i> x <i>pendula</i>	European-tamarack hybrid larch	5	ns	ns	ns	5	L+	25-Apr-16
<i>Lathyrus japonicus</i>	beach pea	5	4	5	4	18	L2	3-Mar-09
<i>Lathyrus latifolius</i>	everlasting pea	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lathyrus ochroleucus</i>	pale vetchling	5	5	3	4	17	LX	21-Jun-12
<i>Lathyrus odoratus</i>	sweet pea	4	ns	ns	ns	4	L+	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Lathyrus palustris</i>	marsh vetchling	5	4	4	4	17	L2	11-Apr-03
<i>Lathyrus pratensis</i>	yellow vetchling	5	ns	ns	ns	5	L+	11-Apr-03
<i>Lathyrus sylvestris</i>	narrow-leaved everlasting pea	5	ns	ns	ns	5	L+	25-Apr-16
<i>Lathyrus tuberosus</i>	tuberous vetchling	4	ns	ns	ns	4	L+	25-Apr-16
<i>Lechea intermedia</i>	pinweed	5	5	5	4	19	L1	3-Feb-12
<i>Rhododendron groenlandicum</i>	Labrador-tea	4	5	5	4	18	L2	26-Apr-17
<i>Leersia oryzoides</i>	rice cut grass	1	2	3	2	8	L5	26-Apr-17
<i>Leersia virginica</i>	white grass	3	2	5	3	13	L4	26-Apr-17
<i>Lemna minor</i>	common duckweed	1	2	4	2	9	L5	26-Apr-17
<i>Lemna trisulca</i>	star duckweed	2	4	5	3	14	L3	26-Apr-17
<i>Lemna turionifera</i>	turion duckweed	2	2	3	3	10	L5	26-Apr-17
<i>Scorzonerooides autumnalis</i>	fall hawkbit	5	ns	ns	ns	5	L+	11-Apr-03
<i>Leonurus cardiaca</i> ssp. <i>cardiaca</i>	motherwort	1	ns	ns	ns	1	L+	26-Apr-17
<i>Leontodon saxatilis</i> ssp. <i>saxatilis</i>	rough hawkbit	5	ns	ns	ns	5	L+	7-Mar-08
<i>Lepidium campestre</i>	field pepper-grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lepidium chalepense</i>	lens-pod white-top	5	ns	ns	ns	5	L+	21-Jun-12
<i>Lepidium densiflorum</i>	common pepper-grass	2	ns	ns	ns	2	L+?	26-Apr-17
<i>Lepidium perfoliatum</i>	clasping pepper-grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Lepidium ramosissimum</i>	branched peppergrass	5	ns	ns	ns	5	L+	29-Apr-15
<i>Lepidium ruderale</i>	roadside pepper-grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Lepidium sativum</i>	garden cress	5	ns	ns	ns	5	L+	11-Apr-03
<i>Lepidium virginicum</i>	Virginia pepper-grass	4	3	4	2	13	L4	25-Apr-16
<i>Lespedeza capitata</i>	round-headed bush-clover	5	2	4	5	16	L3	11-Apr-03
<i>Lespedeza hirta</i>	hairy bush-clover	5	5	4	5	19	L1	3-Feb-12
<i>Liatris cylindracea</i>	cylindric blazing-star	5	5	5	5	20	L1	11-Apr-03
<i>Liatris spicata</i>	spike blazing-star	5	3	5	5	18	L2	29-Feb-12
<i>Ligularia dentata</i>	summer ragwort	5	ns	ns	ns	5	L+	26-Apr-17
<i>Ligustrum vulgare</i>	privet	2	ns	ns	ns	2	L+	26-Apr-17
<i>Lilium lancifolium</i>	tiger lily	4	ns	ns	ns	4	L+	26-Apr-17
<i>Lilium michiganense</i>	Michigan lily	1	4	3	5	13	L4	26-Apr-17
<i>Lilium philadelphicum</i>	wood lily	5	5	5	5	20	LX	22-Apr-14
<i>Lindera benzoin</i>	spice-bush	4	5	4	4	17	L2	21-Jun-12
<i>Linnaea borealis</i> ssp. <i>longiflora</i>	twinflower	3	5	5	5	18	L2	25-Apr-16
<i>Nuttallanthus canadensis</i>	blue toadflax	5	4	4	4	17	L2	11-Apr-03
<i>Lindernia dubia</i>	false pimpernel	4	3	5	4	16	L3	16-Apr-14
<i>Linaria dalmatica</i> ssp. <i>dalmatica</i>	Dalmatian toadflax	5	ns	ns	ns	5	L+	11-Apr-03
<i>Linum medium</i> var. <i>medium</i>	stiff yellow flax	5	5	5	5	20	LX	11-Apr-08
<i>Linum perenne</i>	perennial flax	4	ns	ns	ns	4	L+	25-Apr-16
<i>Linum usitatissimum</i>	common flax	4	ns	ns	ns	4	L+	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Linum virginianum</i>	Virginia yellow flax	5	5	5	4	19	LX	11-Apr-08
<i>Linaria vulgaris</i>	butter-and-eggs	1	ns	ns	ns	1	L+	26-Apr-17
<i>Liparis loeselii</i>	Loesel's twayblade	2	3	5	5	15	L3	25-Apr-16
<i>Liriope spicata</i>	lily-turf	5	ns	ns	ns	5	L+	26-Apr-17
<i>Neottia cordata</i>	heart-leaved twayblade	5	4	5	5	19	L1	29-Apr-15
<i>Lithospermum latifolium</i>	American gromwell	5	5	4	3	17	LX	11-Apr-08
<i>Lithospermum officinale</i>	Eurasian gromwell	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lobelia cardinalis</i>	cardinal flower	5	5	4	5	19	L1	25-Apr-16
<i>Lobelia erinus</i>	bedding lobelia	5	ns	ns	ns	5	L+	29-Apr-15
<i>Lobelia inflata</i>	Indian tobacco	2	4	4	4	14	L3	26-Apr-17
<i>Lobelia kalmii</i>	Kalm's lobelia	5	5	5	4	19	L1	11-Apr-03
<i>Lobularia maritima</i>	sweet alyssum	5	ns	ns	ns	5	L+	11-Apr-03
<i>Lobelia siphilitica</i>	great blue lobelia	2	3	4	5	14	L3	26-Apr-17
<i>Lobelia spicata</i>	pale-spiked lobelia	5	2	5	5	17	L2	21-Jun-12
<i>Lolium perenne</i>	perennial rye	2	ns	ns	ns	2	L+	26-Apr-17
<i>Lonicera caerulea</i>	blue fly-honeysuckle	5	ns	ns	ns	5	L+	27-Apr-17
<i>Lonicera canadensis</i>	fly honeysuckle	2	4	4	4	14	L3	26-Apr-17
<i>Lonicera dioica</i>	wild honeysuckle	2	4	4	4	14	L3	26-Apr-17
<i>Lonicera hirsuta</i>	hairy honeysuckle	3	4	4	4	15	L3	25-Apr-16
<i>Lonicera japonica</i>	Japanese honeysuckle	4	ns	ns	ns	4	L+	26-Apr-17
<i>Lonicera maackii</i>	Amur honeysuckle	4	ns	ns	ns	4	L+	25-Apr-16
<i>Lonicera morrowii</i>	Morrow's honeysuckle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lonicera oblongifolia</i>	swamp fly honeysuckle	5	4	5	5	19	LX	11-Apr-08
<i>Lonicera tatarica</i>	Tartarian honeysuckle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lonicera x bella</i>	shrub honeysuckle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lonicera xylosteum</i>	European fly honeysuckle	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lotus corniculatus</i>	bird's foot trefoil	1	ns	ns	ns	1	L+	26-Apr-17
<i>Ludwigia palustris</i>	water purslane	3	3	4	4	14	L3	26-Apr-17
<i>Lunaria annua</i>	silver dollars	4	ns	ns	ns	4	L+	16-Apr-14
<i>Lupinus perennis</i>	wild lupine	5	3	5	5	18	L2	11-Apr-03
<i>Lupinus polyphyllus</i>	garden lupine	4	ns	ns	ns	4	L+	26-Apr-17
<i>Luzula acuminata</i>	hairy wood rush	3	4	4	3	14	L3	25-Apr-16
<i>Luzula multiflora</i> ssp. <i>multiflora</i>	wood rush	3	4	4	3	14	L3	26-Apr-17
<i>Lycopus americanus</i>	cut-leaved water-horehound	1	4	3	3	11	L4	16-Apr-14
<i>Lycopodium annotinum</i>	stiff club-moss	4	5	5	5	19	L1	3-Feb-12
<i>Lycium barbarum</i>	matrimony-vine	5	ns	ns	ns	5	L+	11-Apr-03
<i>Silene chalcedonica</i>	scarlet cockle	4	ns	ns	ns	4	L+	25-Apr-16
<i>Lycopodium clavatum</i>	running club-moss	4	4	5	5	18	L2	11-Apr-03
<i>Silene coronaria</i>	rose campion	5	ns	ns	ns	5	L+	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Dendrolycopodium dendroideum</i>	round-branched ground-pine	2	5	5	5	17	L2	26-Apr-17
<i>Solanum lycopersicum</i>	tomato (incl. cherry tomato)	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lycopus europaeus</i>	European water-horehound	1	ns	ns	ns	1	L+	26-Apr-17
<i>Dendrolycopodium hickeyi</i>	Hickey's ground-pine	5	5	5	5	20	L1	7-Mar-08
<i>Dendrolycopodium obscurum</i>	ground-pine	5	5	5	5	20	L1	21-Jun-12
<i>Lycopus uniflorus</i>	northern water-horehound	1	3	3	3	10	L5	25-Apr-16
<i>Lycopus americanus</i> x <i>europaeus</i>	hybrid water-horehound	3	ns	ns	ns	3	L+	26-Apr-17
<i>Lysimachia ciliata</i>	fringed loosestrife	1	2	2	2	7	L5	16-Apr-14
<i>Lysimachia clethroides</i>	white loosestrife	5	ns	ns	ns	5	L+	2-Jun-08
<i>Lysimachia nummularia</i>	moneywort	1	ns	ns	ns	1	L+	26-Apr-17
<i>Lysimachia punctata</i>	spotted loosestrife	5	ns	ns	ns	5	L+	11-Apr-03
<i>Lysimachia quadrifolia</i>	whorled loosestrife	5	4	4	3	16	L3	16-Apr-14
<i>Lysimachia terrestris</i>	swamp candles	4	4	4	4	16	L3	26-Apr-17
<i>Lysimachia thyrsoiflora</i>	tufted loosestrife	2	3	4	4	13	L4	16-Apr-14
<i>Lysimachia vulgaris</i>	garden loosestrife	3	ns	ns	ns	3	L+	29-Apr-15
<i>Lysimachia</i> x <i>producta</i>	elongated loosestrife	5	ns	ns	ns	5	LH	11-Apr-03
<i>Lythrum salicaria</i>	purple loosestrife	1	ns	ns	ns	1	L+	26-Apr-17
<i>Maclura pomifera</i>	Osage-orange	5	ns	ns	ns	5	L+	26-Apr-17
<i>Maianthemum canadense</i>	Canada May-flower	1	4	1	5	11	L4	26-Apr-17
<i>Maianthemum racemosum</i> ssp. <i>racemosum</i>	false Solomon's seal	1	3	2	3	9	L5	26-Apr-17
<i>Maianthemum stellatum</i>	starry false Solomon's seal	1	2	1	3	7	L5	26-Apr-17
<i>Maianthemum trifolium</i>	three-leaved false Solomon's seal	3	4	5	4	16	L3	25-Apr-16
<i>Malva alcea</i>	European mallow	5	ns	ns	ns	5	L+	11-Apr-03
<i>Malus baccata</i>	Siberian crab-apple	3	ns	ns	ns	3	L+	26-Apr-17
<i>Malus coronaria</i>	wild crab-apple	4	4	4	4	16	L3	21-Jun-12
<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	white adder's mouth	5	4	5	5	19	L1	29-Apr-15
<i>Malva moschata</i>	musk mallow	3	ns	ns	ns	3	L+	26-Apr-17
<i>Malva neglecta</i>	common mallow	2	ns	ns	ns	2	L+	26-Apr-17
<i>Malus prunifolia</i>	Chinese crab-apple	3	ns	ns	ns	3	L+	26-Apr-17
<i>Malus pumila</i>	apple	1	ns	ns	ns	1	L+	26-Apr-17
<i>Malva pusilla</i>	round-leaved mallow	5	ns	ns	ns	5	L+	25-Apr-16
<i>Malva sylvestris</i>	high mallow	5	ns	ns	ns	5	L+	25-Apr-16
<i>Malus</i> x <i>robusta</i>	crab-apple	4	ns	ns	ns	4	L+	16-Apr-14
<i>Marsilea quadrifolia</i>	European waterclover	5	ns	ns	ns	5	L+	11-Apr-03
<i>Matricaria discoidea</i>	pineappleweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Tripleurospermum inodorum</i>	scentless chamomile	2	ns	ns	ns	2	L+	26-Apr-17
<i>Matricaria chamomilla</i>	wild chamomile	3	ns	ns	ns	3	L+	26-Apr-17
<i>Matteuccia struthiopteris</i> var. <i>pensylvanica</i>	ostrich fern	1	2	2	2	7	L5	26-Apr-17
<i>Medicago lupulina</i>	black medick	1	ns	ns	ns	1	L+	26-Apr-17

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Medicago polymorpha</i>	multiformed medick	5	ns	ns	ns	5	L+	11-Apr-03
<i>Medicago falcata</i>	alfalfa	4	ns	ns	ns	4	L+	25-Apr-16
<i>Medicago sativa</i> ssp. <i>sativa</i>	alfalfa	1	ns	ns	ns	1	L+	26-Apr-17
<i>Medeola virginiana</i>	Indian cucumber-root	2	5	4	5	16	L3	26-Apr-17
<i>Bidens beckii</i>	water-marigold	5	5	5	4	19	L1	3-Feb-12
<i>Melilotus albus</i>	white sweet clover	1	ns	ns	ns	1	L+	26-Apr-17
<i>Melampyrum lineare</i>	cow-wheat	5	5	5	4	19	L1	7-Mar-08
<i>Melilotus officinalis</i>	yellow sweet clover	1	ns	ns	ns	1	L+	26-Apr-17
<i>Melissa officinalis</i>	lemon-balm	4	ns	ns	ns	4	L+	26-Apr-17
<i>Mentha aquatica</i>	water mint	5	ns	ns	ns	5	L+	11-Apr-03
<i>Mentha canadensis</i>	wild mint	1	2	3	2	8	L5	16-Apr-14
<i>Menispermum canadense</i>	moonseed	2	4	4	4	14	L3	26-Apr-17
<i>Mentha spicata</i>	spear mint	2	ns	ns	ns	2	L+	26-Apr-17
<i>Menyanthes trifoliata</i>	bog buckbean	4	4	5	5	18	L2	25-Apr-16
<i>Mentha x gentilis</i>	red mint	3	ns	ns	ns	3	L+	26-Apr-17
<i>Mentha x piperita</i>	peppermint	4	ns	ns	ns	4	L+	16-Apr-14
<i>Mentha x verticillata</i>	hybrid mint	5	ns	ns	ns	5	L+	2-Jun-08
<i>Mentha x villosa</i>	downy mint	5	ns	ns	ns	5	L+	29-Apr-15
<i>Mertensia virginica</i>	Virginia bluebells	5	ns	ns	ns	5	L+?	26-Apr-17
<i>Milium effusum</i>	wood millet	3	5	5	3	16	L3	26-Apr-17
<i>Erythranthe geyeri</i>	smooth monkey-flower	5	5	4	5	19	LX	14-Apr-08
<i>Erythranthe moschata</i>	musk-flower	5	5	4	4	18	L2	29-Apr-15
<i>Mimulus ringens</i>	square-stemmed monkey-flower	2	3	3	4	12	L4	26-Apr-17
<i>Mirabilis nyctaginea</i>	wild four o'clock	4	ns	ns	ns	4	L+	26-Apr-17
<i>Miscanthus sacchariflorus</i>	eulalia	3	ns	ns	ns	3	L+	26-Apr-17
<i>Miscanthus sinensis</i>	miscanthus	5	ns	ns	ns	5	L+	16-Apr-14
<i>Mitella diphylla</i>	mitrewort	2	3	4	5	14	L3	26-Apr-17
<i>Mitella nuda</i>	naked mitrewort	2	4	5	5	16	L3	26-Apr-17
<i>Mitchella repens</i>	partridgeberry	2	4	4	5	15	L3	26-Apr-17
<i>Moehringia lateriflora</i>	grove stitchwort	5	2	4	3	14	L3	3-Feb-12
<i>Mollugo verticillata</i>	carpet-weed	5	ns	ns	ns	5	L+	25-Apr-16
<i>Monarda didyma</i>	bee-balm	4	3	4	4	15	L3	26-Apr-17
<i>Monarda fistulosa</i>	wild bergamot	1	3	2	3	9	L5	26-Apr-17
<i>Hypopitys monotropa</i>	pinemap	2	4	5	5	16	L3	26-Apr-17
<i>Monotropa uniflora</i>	Indian-pipe	2	4	5	5	16	L3	16-Apr-14
<i>Moneses uniflora</i>	one-flowered pyrola	4	5	5	5	19	L1	26-Apr-17
<i>Morus alba</i>	white mulberry	1	ns	ns	ns	1	L+	26-Apr-17
<i>Morus rubra</i>	red mulberry	5	5	5	4	19	L1	14-Apr-08
<i>Morus alba</i> x <i>rubra</i>	hybrid mulberry	5	ns	ns	ns	5	L+	2-Mar-09

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Muhlenbergia asperifolia</i>	scratch grass	5	ns	ns	ns	5	L+	29-Apr-15
<i>Muhlenbergia frondosa</i>	wire-stemmed muhly grass	4	2	4	2	12	L4	16-Apr-14
<i>Muhlenbergia glomerata</i>	marsh wild Timothy	4	3	4	5	16	L3	29-Apr-15
<i>Muhlenbergia mexicana</i> var. <i>filiformis</i>	slender muhly grass	3	2	0	2	7	L5	26-Apr-17
<i>Muhlenbergia mexicana</i> var. <i>mexicana</i>	common muhly grass	2	2	0	1	5	L5	26-Apr-17
<i>Muhlenbergia schreberi</i>	Schreber's muhly grass	5	3	4	3	15	L3	11-Apr-03
<i>Muscari armeniacum</i>	Armenian grape hyacinth	5	ns	ns	ns	5	L+	25-Apr-16
<i>Muscari botryoides</i>	grape hyacinth	4	ns	ns	ns	4	L+	26-Apr-17
<i>Myosoton aquaticum</i>	giant chickweed	3	ns	ns	ns	3	L+	26-Apr-17
<i>Myosotis arvensis</i>	garden forget-me-not	5	ns	ns	ns	5	L+	16-Apr-14
<i>Myosotis laxa</i>	smaller forget-me-not	1	4	3	4	12	L4	26-Apr-17
<i>Myosurus minimus</i>	mouse-tail	5	4	5	3	17	L2	2-Mar-09
<i>Myosotis scorpioides</i>	true forget-me-not	1	ns	ns	ns	1	L+	16-Apr-14
<i>Myosotis stricta</i>	upright forget-me-not	4	ns	ns	ns	4	L+	26-Apr-17
<i>Myosotis sylvatica</i>	woodland forget-me-not	2	ns	ns	ns	2	L+	26-Apr-17
<i>Myosotis verna</i>	spring forget-me-not	4	2	5	2	13	L4	26-Apr-17
<i>Myrica gale</i>	sweet gale	5	4	3	5	17	L2	16-Apr-14
<i>Myriophyllum heterophyllum</i>	variable water-milfoil	5	4	5	4	18	L2	14-Apr-08
<i>Morella pensylvanica</i>	bayberry	5	ns	ns	ns	5	L+	2-Jun-08
<i>Myriophyllum sibiricum</i>	northern water-milfoil	3	5	5	4	17	L2	26-Apr-17
<i>Myriophyllum spicatum</i>	Eurasian water-milfoil	3	ns	ns	ns	3	L+	26-Apr-17
<i>Myriophyllum verticillatum</i>	whorled water-milfoil	5	5	5	4	19	L1	11-Apr-03
<i>Najas flexilis</i>	bushy naiad	2	4	5	5	16	L3	25-Apr-16
<i>Najas guadalupensis</i> ssp. <i>olivacea</i>	southern naiad	5	3	5	4	17	L2	21-Jun-12
<i>Narcissus jonquilla</i>	jonquil	5	ns	ns	ns	5	L+	2-Jun-08
<i>Narcissus poeticus</i>	narcissus	3	ns	ns	ns	3	L+	26-Apr-17
<i>Narcissus pseudonarcissus</i>	daffodil	3	ns	ns	ns	3	L+	26-Apr-17
<i>Nasturtium microphyllum</i>	small-leaved watercress	2	ns	ns	ns	2	L+	26-Apr-17
<i>Nasturtium officinale</i>	watercress	4	ns	ns	ns	4	L+?	26-Apr-17
<i>Ilex mucronata</i>	mountain holly	3	4	5	5	17	L2	26-Apr-17
<i>Nepeta cataria</i>	catnip	1	ns	ns	ns	1	L+	26-Apr-17
<i>Neslia paniculata</i>	yellow ball mustard	5	ns	ns	ns	5	L+	11-Apr-03
<i>Nicotiana longiflora</i>	long-leaved tobacco	5	ns	ns	ns	5	L+	11-Apr-03
<i>Nicandra physalodes</i>	apple-of-Peru	5	ns	ns	ns	5	L+	11-Apr-03
<i>Nuphar variegata</i>	bullhead lily	2	4	5	3	14	L3	26-Apr-17
<i>Nymphaea odorata</i> ssp. <i>odorata</i>	fragrant water-lily	4	4	5	4	17	L2	26-Apr-17
<i>Nymphaea odorata</i>	fragrant water lily (sensu lato)	3	3	5	4	15	L3	26-Apr-17
<i>Nymphaea odorata</i> ssp. <i>tuberosa</i>	tuberous water-lily	3	3	5	3	14	L3	26-Apr-17
<i>Nymphoides peltata</i>	floating-heart	5	ns	ns	ns	5	L+	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Oenothera biennis</i>	common evening-primrose	1	1	1	1	4	L5	26-Apr-17
<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	sundrops	4	ns	ns	ns	4	L+	26-Apr-17
<i>Oenanthe javanica</i>	water-dropwort	5	ns	ns	ns	5	L+	2-Jun-08
<i>Oenothera oakesiana</i>	Oake's evening-primrose	4	3	5	3	15	L3	25-Apr-16
<i>Oenothera parviflora</i>	smaller evening-primrose	3	3	4	3	13	L4	26-Apr-17
<i>Oenothera perennis</i>	perennial eve primrose	5	3	4	5	17	L2	3-Feb-12
<i>Oenothera pilosella</i> ssp. <i>pilosella</i>	pilose sundrops	5	3	5	4	17	L2	25-Apr-16
<i>Oenothera villosa</i> ssp. <i>villosa</i>	villose evening-primrose	5	3	5	4	17	L2	14-Apr-08
<i>Onopordum acanthium</i>	Scotch thistle	5	ns	ns	ns	5	L+	2-Mar-09
<i>Lithospermum parviflorum</i>	hairy false gromwell	5	5	5	4	19	LX	14-Apr-08
<i>Onoclea sensibilis</i>	sensitive fern	1	3	1	3	8	L5	25-Apr-16
<i>Ophioglossum pusillum</i>	northern adder's-tongue fern	5	5	5	5	20	L1	22-Apr-14
<i>Origanum vulgare</i>	wild marjoram	3	ns	ns	ns	3	L+	26-Apr-17
<i>Ornithogalum umbellatum</i>	summer snowflake	4	ns	ns	ns	4	L+	26-Apr-17
<i>Orobanche uniflora</i>	one-flowered cancer-root	5	5	4	4	18	L2	25-Apr-16
<i>Orthilia secunda</i>	one-sided pyrola	4	5	5	5	19	L1	26-Apr-17
<i>Oryzopsis asperifolia</i>	white-fruited mountain-rice	2	4	3	4	13	L4	26-Apr-17
<i>Piptatheropsis pungens</i>	slender mountain-rice	5	5	4	4	18	LX	14-Apr-08
<i>Patis racemosa</i>	black-fruited mountain-rice	3	3	5	4	15	L3	26-Apr-17
<i>Osmundastrum cinnamomeum</i>	cinnamon fern	2	4	5	5	16	L3	26-Apr-17
<i>Osmunda claytoniana</i>	interrupted fern	3	5	5	5	18	L2	29-Apr-15
<i>Osmorhiza claytonii</i>	woolly sweet cicely	2	3	4	3	12	L4	26-Apr-17
<i>Osmorhiza longistylis</i>	smooth sweet cicely	3	4	4	4	15	L3	26-Apr-17
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern	2	4	5	5	16	L3	26-Apr-17
<i>Ostrya virginiana</i>	ironwood	1	3	2	2	8	L5	26-Apr-17
<i>Oxalis montana</i>	pink wood sorrel	3	4	5	4	16	L3	25-Apr-16
<i>Oxalis dillenii</i>	deflexed yellow wood-sorrel	3	1	0	1	5	L5	26-Apr-17
<i>Oxalis stricta</i>	common yellow wood-sorrel	1	1	1	1	4	L5	26-Apr-17
<i>Pachysandra terminalis</i>	Japanese spurge	4	ns	ns	ns	4	L+	26-Apr-17
<i>Paeonia officinalis</i>	peony	4	ns	ns	ns	4	L+	26-Apr-17
<i>Paeonia suffruticosa</i>	tree peony	5	ns	ns	ns	5	L+	25-Apr-16
<i>Dichanthelium acuminatum</i> ssp. <i>acuminatum</i>	hairy panic grass	2	3	3	3	11	L4	25-Apr-16
<i>Dichanthelium acuminatum</i> ssp. <i>lindheimeri</i>	Lindheimer's panic grass	5	3	5	5	18	L2	3-Feb-12
<i>Panicum capillare</i>	panic grass	1	1	4	1	7	L5	26-Apr-17
<i>Dichanthelium acuminatum</i> ssp. <i>implicatum</i>	Columbia panic grass	4	4	4	4	16	L3	29-Apr-15
<i>Panicum dichotomiflorum</i>	fall panic grass	3	ns	ns	ns	3	L+	26-Apr-17
<i>Panicum flexile</i>	wiry panic grass	5	2	5	4	16	L3	17-Apr-08
<i>Panicum philadelphicum</i> ssp. <i>gattingeri</i>	Gattinger's panic grass	5	4	4	5	18	L2	22-Apr-14
<i>Dichanthelium latifolium</i>	broad-leaved panic grass	4	5	5	4	18	L2	16-Apr-14

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Dichanthelium linearifolium</i>	narrow-leaved panic grass	4	3	5	5	17	L2	26-Apr-17
<i>Panicum miliaceum</i>	millet	4	ns	ns	ns	4	L+	26-Apr-17
<i>Dichanthelium oligosanthes</i> ssp. <i>oligosanthes</i>	few-flowered panic grass	5	4	5	4	18	L2	11-Apr-03
<i>Dichanthelium perlongum</i>	long-stalked panic grass	5	4	4	4	17	L2	3-Feb-12
<i>Panax quinquefolius</i>	ginseng	4	5	4	5	18	L2	3-Feb-12
<i>Panax trifolius</i>	dwarf ginseng	5	5	4	5	19	LX	16-Apr-08
<i>Dichanthelium ovale</i> ssp. <i>villosissimum</i>	hairy panic grass	5	5	4	4	18	LX	17-Apr-08
<i>Panicum virgatum</i>	switch grass	3	2	5	5	15	L3	26-Apr-17
<i>Dichanthelium xanthophyllum</i>	yellow panic grass	5	4	4	5	18	L2	17-Apr-08
<i>Papaver dubium</i>	smooth-fruited poppy	5	ns	ns	ns	5	L+	11-Apr-03
<i>Papaver orientale</i>	oriental poppy	4	ns	ns	ns	4	L+	16-Apr-14
<i>Papaver rhoeas</i>	corn poppy	5	ns	ns	ns	5	L+	16-Apr-14
<i>Papaver somniferum</i>	opium poppy	5	ns	ns	ns	5	L+	16-Apr-14
<i>Parthenocissus vitacea</i>	thicket creeper	1	2	0	1	4	L5	26-Apr-17
<i>Parnassia parviflora</i>	small-flowered grass of Parnassus	5	5	5	5	20	L1	17-Apr-08
<i>Parietaria pensylvanica</i>	Pennsylvania pellitory	3	2	3	2	10	L5	26-Apr-17
<i>Parthenocissus quinquefolia</i>	Virginia creeper	2	1	4	2	9	L5	26-Apr-17
<i>Parthenocissus tricuspidata</i>	Boston-ivy	4	ns	ns	ns	4	L+	26-Apr-17
<i>Pastinaca sativa</i>	wild parsnip	2	ns	ns	ns	2	L+	26-Apr-17
<i>Pedicularis canadensis</i>	wood-betony	4	5	5	5	19	L1	21-Jun-12
<i>Pedicularis lanceolata</i>	swamp lousewort	5	5	5	5	20	LX	17-Apr-08
<i>Peltandra virginica</i>	tuckahoe	5	2	5	4	16	L3	3-Feb-12
<i>Penstemon digitalis</i>	foxglove beard-tongue	3	3	4	4	14	L3	16-Apr-14
<i>Penstemon hirsutus</i>	hairy beard-tongue	4	4	4	3	15	L3	25-Apr-16
<i>Penthorum sedoides</i>	ditch stonecrop	2	2	4	3	11	L4	26-Apr-17
<i>Perilla frutescens</i>	shrubby perilla	5	ns	ns	ns	5	L+	21-Jun-12
<i>Petasites frigidus</i>	palmate-leaved sweet coltsfoot	5	5	5	4	19	L1	29-Apr-15
<i>Petasites japonicus</i>	Japanese coltsfoot	5	ns	ns	ns	5	L+	16-Apr-14
<i>Petunia x atkinsiana</i>	garden petunia	5	ns	ns	ns	5	L+	3-Feb-12
<i>Phalaris arundinacea</i>	reed canary grass	1	ns	ns	ns	1	L+?	26-Apr-17
<i>Phalaris canariensis</i>	canary grass	5	ns	ns	ns	5	L+	11-Apr-03
<i>Phaseolus vulgaris</i>	bean	5	ns	ns	ns	5	L+	29-Apr-15
<i>Phellodendron amurense</i>	Amur cork tree	5	ns	ns	ns	5	L+	2-Jun-08
<i>Phegopteris connectilis</i>	northern beech fern	2	3	5	5	15	L3	29-Apr-15
<i>Phegopteris hexagonoptera</i>	southern beech fern	5	5	5	4	19	LX	17-Apr-08
<i>Philadelphus coronarius</i>	mock-orange	4	ns	ns	ns	4	L+	16-Apr-14
<i>Phlox divaricata</i>	wild blue phlox	3	4	4	5	16	L3	26-Apr-17
<i>Phlox paniculata</i>	garden phlox	3	ns	ns	ns	3	L+	26-Apr-17
<i>Phleum pratense</i>	Timothy grass	1	ns	ns	ns	1	L+	26-Apr-17

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Phlox subulata</i>	moss phlox	5	ns	ns	ns	5	L+	11-Apr-03
<i>Phragmites australis</i> ssp. <i>americanus</i>	American reed	5	5	5	4	19	LX	29-Feb-12
<i>Phragmites australis</i> ssp. <i>australis</i>	common reed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Phryma leptostachya</i>	lopseed	2	2	3	2	9	L5	26-Apr-17
<i>Physalis alkekengi</i>	Chinese lantern	3	ns	ns	ns	3	L+	26-Apr-17
<i>Physalis heterophylla</i>	clammy ground-cherry	2	2	3	3	10	L5	26-Apr-17
<i>Physocarpus opulifolius</i>	ninebark	3	2	5	4	14	L3	26-Apr-17
<i>Physalis longifolia</i> var. <i>subglabrata</i>	smooth ground-cherry	5	3	3	4	15	L3	28-Apr-16
<i>Physalis virginiana</i>	Virginia ground-cherry	5	4	3	3	15	LU	27-Feb-09
<i>Physostegia virginiana</i> ssp. <i>virginiana</i>	false dragonhead	4	3	4	4	15	L3	29-Apr-15
<i>Picea abies</i>	Norway spruce	3	ns	ns	ns	3	L+	26-Apr-17
<i>Picea glauca</i>	white spruce	1	5	4	4	14	L3	26-Apr-17
<i>Picris hieracioides</i>	hawkweed oxtongue	3	ns	ns	ns	3	L+	26-Apr-17
<i>Picea mariana</i>	black spruce	3	4	5	5	17	L2	26-Apr-17
<i>Picea pungens</i>	Colorado spruce	5	ns	ns	ns	5	L+	29-Apr-15
<i>Pilea fontana</i>	spring clearweed	2	3	4	4	13	L4	26-Apr-17
<i>Pilea pumila</i>	dwarf clearweed	1	2	1	1	5	L5	26-Apr-17
<i>Pinus banksiana</i>	Jack pine	5	ns	ns	ns	5	L+	29-Apr-15
<i>Pinus nigra</i>	Austrian pine	3	ns	ns	ns	3	L+	26-Apr-17
<i>Pinus resinosa</i>	red pine	2	5	5	5	17	L2	26-Apr-17
<i>Pinus strobus</i>	white pine	1	4	3	4	12	L4	26-Apr-17
<i>Pinus sylvestris</i>	Scots pine	1	ns	ns	ns	1	L+	26-Apr-17
<i>Pisum sativum</i>	garden pea	5	ns	ns	ns	5	L+	11-Apr-03
<i>Pistia stratiotes</i>	water-lettuce	5	ns	ns	ns	5	L+	2-Jun-08
<i>Pityopsis falcata</i>	golden aster	5	ns	ns	ns	5	L+	11-Apr-03
<i>Platanthera aquilonis</i>	tall northern green orchis	3	4	5	5	17	L2	26-Apr-17
<i>Plantago arenaria</i>	sand plantain	5	ns	ns	ns	5	L+	25-Apr-16
<i>Platanthera blephariglottis</i> var. <i>blephariglottis</i>	white-fringed orchis	5	5	5	5	20	LX	21-Apr-08
<i>Platanthera clavellata</i>	club-spur orchis	5	5	5	5	20	LX	21-Apr-08
<i>Platanthera flava</i> var. <i>herbiola</i>	tubercled orchis	5	5	5	5	20	LX	21-Apr-08
<i>Platanthera hookeri</i>	Hooker's orchis	5	5	4	5	19	LX	21-Apr-08
<i>Platanthera huronensis</i>	Lake Huron green orchis	5	4	5	5	19	LU	5-Mar-12
<i>Platanthera hyperborea</i>	northern green orchis	3	4	5	5	17	LU	27-Apr-17
<i>Platanthera lacera</i>	ragged fringed orchis	5	5	5	5	20	L1	21-Jun-12
<i>Plantago lanceolata</i>	English plantain	1	ns	ns	ns	1	L+	26-Apr-17
<i>Plantago major</i>	common plantain	1	ns	ns	ns	1	L+	26-Apr-17
<i>Plantago media</i>	hoary plantain	5	ns	ns	ns	5	L+	11-Apr-03
<i>Platanthera obtusata</i>	small northern bog orchis	5	4	5	5	19	LX	24-Apr-14
<i>Platanus occidentalis</i>	sycamore	5	5	5	3	18	L2	16-Apr-14

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Platanthera psycodes</i>	small purple-fringed orchis	5	5	5	5	20	LX	28-Apr-16
<i>Plantago rugelii</i>	red-stemmed plantain	1	2	0	1	4	L5	26-Apr-17
<i>Platanus x hispanica</i>	London plane tree	4	ns	ns	ns	4	L+	26-Apr-17
<i>Poa alsodes</i>	grove meadow grass	3	3	5	3	14	L3	26-Apr-17
<i>Poa annua</i>	annual blue grass	3	ns	ns	ns	3	L+	26-Apr-17
<i>Poa bulbosa</i>	bulblet-bearing blue grass	5	ns	ns	ns	5	L+	7-Mar-08
<i>Poa chaixii</i>	broad-leaved meadow grass	5	ns	ns	ns	5	L+	16-Apr-14
<i>Poa compressa</i>	flat-stemmed blue grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Poa saltuensis</i> ssp. <i>languida</i>	languid spear grass	5	2	4	3	14	L3	11-Apr-03
<i>Poa nemoralis</i>	woodland spear grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Poa palustris</i>	fowl meadow-grass	1	2	3	2	8	L5	26-Apr-17
<i>Poa pratensis</i> ssp. <i>pratensis</i>	Kentucky blue grass	1	ns	ns	ns	1	L+	26-Apr-17
<i>Poa saltuensis</i> ssp. <i>saltuensis</i>	bushy spear grass	4	3	5	3	15	L3	29-Apr-15
<i>Poa trivialis</i>	rough blue grass	5	ns	ns	ns	5	L+	16-Apr-14
<i>Podophyllum peltatum</i>	May-apple	1	3	3	2	9	L5	26-Apr-17
<i>Pogonia ophioglossoides</i>	rose pogonia	5	4	5	5	19	L1	21-Apr-08
<i>Polygonum achoreum</i>	striate knotweed	3	ns	ns	ns	3	L+	25-Apr-16
<i>Polystichum acrostichoides</i>	Christmas fern	1	3	5	4	13	L4	16-Apr-14
<i>Persicaria amphibia</i> var. <i>emersa</i>	swamp smartweed	4	3	4	3	14	L3	26-Apr-17
<i>Persicaria amphibia</i>	swamp smartweed (sensu lato)	2	3	4	4	13	L4	26-Apr-17
<i>Persicaria amphibia</i> var. <i>stipulacea</i>	water smartweed	3	2	4	3	12	L4	26-Apr-17
<i>Polygonum aviculare</i> ssp. <i>depressum</i>	sand knotweed	5	ns	ns	ns	5	L+	26-Apr-17
<i>Fallopia baldschuanica</i>	silver-lace vine	5	ns	ns	ns	5	L+	26-Apr-17
<i>Polygonum aviculare</i> ssp. <i>aviculare</i>	prostrate knotweed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Fallopia cilinodis</i>	fringed black bindweed	3	4	4	3	14	L3	26-Apr-17
<i>Fallopia convolvulus</i>	black bindweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Reynoutria japonica</i> var. <i>japonica</i>	Japanese knotweed	2	ns	ns	ns	2	L+	26-Apr-17
<i>Polanisia dodecandra</i>	clammy-weed	5	5	5	4	19	LX	21-Apr-08
<i>Polygonum douglasii</i>	Douglas' knotweed	5	3	5	4	17	L2	21-Apr-08
<i>Persicaria hydropiper</i>	water-pepper	2	ns	ns	ns	2	L+?	26-Apr-17
<i>Persicaria hydropiperoides</i>	mild water-pepper	4	2	5	3	14	L3	25-Apr-16
<i>Persicaria lapathifolia</i>	pale smartweed	1	1	4	0	6	L5	26-Apr-17
<i>Polystichum lonchitis</i>	northern holly fern	5	2	5	5	17	L2	26-Apr-17
<i>Polypogon monspeliensis</i>	rabbit's foot	5	ns	ns	ns	5	L+	11-Apr-03
<i>Polygonatum multiflorum</i>	European Solomon's seal	3	ns	ns	ns	3	L+	26-Apr-17
<i>Persicaria orientalis</i>	prince's feather	4	ns	ns	ns	4	L+	26-Apr-17
<i>Polygaloides paucifolia</i>	fringed polygala	3	5	4	5	17	L2	26-Apr-17
<i>Persicaria pensylvanica</i>	Pennsylvania smartweed	2	2	4	3	11	L4	26-Apr-17
<i>Persicaria maculosa</i>	lady's thumb	1	ns	ns	ns	1	L+	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Polygala polygama</i>	racemed milkwort	5	5	5	5	20	L1	22-Apr-14
<i>Polygonatum pubescens</i>	downy Solomon's seal	1	4	2	5	12	L4	26-Apr-17
<i>Persicaria punctata</i>	dotted water-pepper	4	3	5	4	16	L3	25-Apr-16
<i>Persicaria sagittata</i>	arrow-leaved tear-thumb	5	4	5	4	18	L2	16-Apr-14
<i>Polygala sanguinea</i>	purple milkwort	5	ns	5	ns	10	LU	3-Mar-09
<i>Fallopia scandens</i>	climbing false buckwheat	5	4	4	3	16	L3	7-Mar-08
<i>Polygala senega</i>	Seneca snakeroot	5	5	5	5	20	L1	29-Apr-15
<i>Polygala verticillata</i>	whorled milkwort	5	5	5	5	20	L1	22-Apr-14
<i>Polypodium virginianum</i>	rock polypody	3	4	5	5	17	L2	26-Apr-17
<i>Persicaria virginiana</i>	jumpseed	5	3	5	2	15	L3	25-Apr-16
<i>Reynoutria x bohemica</i>	hybrid knotweed	4	ns	ns	ns	4	L+	25-Apr-16
<i>Pontederia cordata</i>	pickerel-weed	4	4	5	4	17	L2	26-Apr-17
<i>Populus alba</i>	white poplar	2	ns	ns	ns	2	L+	26-Apr-17
<i>Populus balsamifera</i>	balsam poplar	1	2	3	2	8	L5	26-Apr-17
<i>Populus deltoides</i>	cottonwood	1	1	4	1	7	L5	26-Apr-17
<i>Populus grandidentata</i>	large-toothed aspen	1	3	4	3	11	L4	26-Apr-17
<i>Populus nigra</i>	black poplar	4	ns	ns	ns	4	L+	25-Apr-16
<i>Populus nigra</i> var. <i>italica</i>	Lombardy poplar	5	ns	ns	ns	5	L+	11-Apr-03
<i>Populus simonii</i>	Chinese balsam poplar	5	ns	ns	ns	5	L+	7-Mar-08
<i>Populus tremuloides</i>	trembling aspen	1	3	1	3	8	L5	26-Apr-17
<i>Populus x berolinensis</i>	Berlin poplar	5	ns	ns	ns	5	L+	11-Apr-03
<i>Populus x canescens</i>	grey poplar hybrid	4	ns	ns	ns	4	L+	26-Apr-17
<i>Populus x canadensis</i>	Carolina poplar	2	ns	ns	ns	2	L+	26-Apr-17
<i>Populus x heimburgeri</i>	Heimburger's poplar	4	ns	ns	ns	4	L+	29-Apr-15
<i>Populus x jackii</i>	Jack's poplar	3	2	4	1	10	L5	26-Apr-17
<i>Populus x rouleauiana</i>	Rouleau's poplar	4	ns	ns	ns	4	L+	25-Apr-16
<i>Portulaca grandiflora</i>	garden portulaca	5	ns	ns	ns	5	L+	25-Apr-16
<i>Portulaca oleracea</i>	purslane	3	ns	ns	ns	3	L+	26-Apr-17
<i>Gillenia trifoliata</i>	Indian physic	5	5	4	4	18	LX	25-Apr-16
<i>Potamogeton amplifolius</i>	large-leaved pondweed	3	4	5	4	16	L3	7-Mar-08
<i>Potentilla anserina</i> ssp. <i>anserina</i>	silverweed	2	2	3	2	9	L5	26-Apr-17
<i>Potentilla argentea</i>	silvery cinquefoil	3	ns	ns	ns	3	L+	26-Apr-17
<i>Drymocallis arguta</i>	tall cinquefoil	4	2	4	4	14	L3	26-Apr-17
<i>Potamogeton pusillus</i> ssp. <i>tenuissimus</i>	least pondweed	3	4	5	4	16	L3	25-Apr-16
<i>Potamogeton crispus</i>	curly pondweed	1	ns	ns	ns	1	L+	26-Apr-17
<i>Potamogeton epihydrus</i>	ribbon pondweed	5	4	5	4	18	L2	21-Jun-12
<i>Stuckenia filiformis</i> ssp. <i>filiformis</i>	thread-leaved pondweed	5	5	5	5	20	LX	2-Jun-08
<i>Potamogeton foliosus</i>	leafy pondweed	1	3	5	4	13	L4	25-Apr-16
<i>Potamogeton gramineus</i>	grass-like pondweed	3	3	5	4	15	L3	29-Apr-15

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Potamogeton illinoensis</i>	Illinois pondweed	5	4	5	4	18	L2	16-Apr-14
<i>Potentilla inclinata</i>	lintermediate cinquefoil	3	ns	ns	ns	3	L+	29-Apr-15
<i>Potamogeton natans</i>	floating pondweed	2	4	5	3	14	L3	26-Apr-17
<i>Potamogeton nodosus</i>	knotty pondweed	4	4	5	4	17	L2	26-Apr-17
<i>Potentilla norvegica</i>	rough cinquefoil	1	ns	ns	ns	1	L+?	25-Apr-16
<i>Potamogeton oakesianus</i>	Oake's pondweed	5	3	5	4	17	L2	2-Jun-08
<i>Comarum palustre</i>	marsh cinquefoil	3	4	4	5	16	L3	26-Apr-17
<i>Potentilla supina</i> ssp. <i>paradoxa</i>	bushy cinquefoil	4	3	5	4	16	L3	7-Mar-08
<i>Stuckenia pectinata</i>	sago pondweed	1	2	5	3	11	L4	26-Apr-17
<i>Potentilla pensylvanica</i>	prairie cinquefoil	5	ns	ns	ns	5	L+	16-Apr-14
<i>Potamogeton perfoliatus</i>	clasping-leaved pondweed	5	3	5	4	17	L2	22-Apr-14
<i>Potamogeton praelongus</i>	white-stem pondweed	5	3	5	5	18	L2	21-Apr-08
<i>Potamogeton pusillus</i> ssp. <i>pusillus</i>	small pondweed	5	5	5	5	20	L1	25-Apr-16
<i>Potentilla recta</i>	sulphur cinquefoil	1	ns	ns	ns	1	L+	26-Apr-17
<i>Potamogeton richardsonii</i>	redhead pondweed	4	3	5	4	16	L3	21-Jun-12
<i>Potentilla simplex</i>	old-field cinquefoil	3	3	4	4	14	L3	25-Apr-16
<i>Potamogeton spirillus</i>	spiral pondweed	5	5	5	5	20	LX	21-Apr-08
<i>Potamogeton strictifolius</i>	narrow-leaved pondweed	5	5	5	4	19	LU	29-Feb-12
<i>Potentilla verna</i>	spring cinquefoil	5	ns	ns	ns	5	L+	11-Apr-03
<i>Potamogeton crispus</i> x <i>pusillus</i>	hybrid pondweed	5	ns	ns	ns	5	L+	27-Apr-17
<i>Potamogeton zosteriformis</i>	flat-stemmed pondweed	3	4	5	4	16	L3	26-Apr-17
<i>Nabalus albus</i>	white wood lettuce	3	4	4	3	14	L3	26-Apr-17
<i>Nabalus altissimus</i>	tall wood lettuce	1	3	2	2	8	L5	26-Apr-17
<i>Primula bulleyana</i>	Yunnan primrose	5	ns	ns	ns	5	L+	29-Apr-08
<i>Primula veris</i>	cowslip	5	ns	ns	ns	5	L+	11-Apr-03
<i>Primula vulgaris</i> ssp. <i>rubra</i>	pink primrose	5	ns	ns	ns	5	L+	16-Apr-14
<i>Proserpinaca palustris</i>	mermaid-weed	5	5	5	5	20	LX	21-Apr-08
<i>Prunus americana</i>	wild plum	5	4	4	3	16	LU	6-Jun-08
<i>Prunus avium</i>	mazzard cherry	2	ns	ns	ns	2	L+	25-Apr-16
<i>Prunus cerasus</i>	sour cherry	4	ns	ns	ns	4	L+	26-Apr-17
<i>Prunus domestica</i>	common plum	4	ns	ns	ns	4	L+	16-Apr-14
<i>Prunus glandulosa</i>	Japanese cherry	5	ns	ns	ns	5	L+	11-Apr-03
<i>Prunella laciniata</i>	cut-leaved heal-all	5	ns	ns	ns	5	L+	26-Apr-17
<i>Prunus mahaleb</i>	Mahaleb cherry	5	ns	ns	ns	5	L+	29-Apr-08
<i>Prunus nigra</i>	Canada plum	2	4	4	4	14	L3	26-Apr-17
<i>Prunus pensylvanica</i>	pin cherry	2	4	3	3	12	L4	16-Apr-14
<i>Prunus persica</i>	peach	4	ns	ns	ns	4	L+	29-Apr-15
<i>Prunus pumila</i> var. <i>pumila</i>	sand cherry	5	ns	ns	ns	5	L+?	16-Apr-14
<i>Prunus pumila</i> var. <i>susquehanae</i>	Susquehanna sand cherry	5	5	4	5	19	LX	21-Apr-08

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Prunus serotina</i>	black cherry	1	2	0	2	5	L5	26-Apr-17
<i>Prunus spinosa</i>	blackthorn	5	ns	ns	ns	5	L+	3-Feb-12
<i>Prunus tenella</i>	dwarf Russian almond	5	ns	ns	ns	5	L+	11-Apr-03
<i>Prunus tomentosa</i>	Manchu cherry	3	ns	ns	ns	3	L+	26-Apr-17
<i>Prunus virginiana</i> var. <i>virginiana</i>	choke cherry	1	2	0	1	4	L5	26-Apr-17
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	heal-all (native)	1	2	3	2	8	L5	25-Apr-16
<i>Prunella vulgaris</i>	heal-all	2	ns	ns	ns	2	L+?	26-Apr-17
<i>Prunella vulgaris</i> ssp. <i>vulgaris</i>	heal-all (European)	2	ns	ns	ns	2	L+	25-Apr-16
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	Rocky Mountain Douglas-fir	5	ns	ns	ns	5	L+	16-Apr-14
<i>Pterospora andromedea</i>	pine-drops	5	5	5	5	20	LX	21-Apr-08
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	eastern bracken	1	4	2	4	11	L4	16-Apr-14
<i>Puccinellia distans</i>	alkali grass	3	ns	ns	ns	3	L+	26-Apr-17
<i>Pulmonaria officinalis</i>	lung-wort	3	ns	ns	ns	3	L+	26-Apr-17
<i>Pulmonaria rubra</i>	red lungwort	5	ns	ns	ns	5	L+	29-Apr-15
<i>Pycnanthemum tenuifolium</i>	narrow-leaved mountain-mint	5	3	5	3	16	L3	21-Jun-12
<i>Pycnanthemum verticillatum</i> var. <i>pilosum</i>	hairy mountain mint	5	5	4	4	18	LX	2-Jun-08
<i>Pycnanthemum virginianum</i>	Virginia mountain-mint	5	2	5	3	15	L3	16-Apr-14
<i>Pyrola asarifolia</i>	pink pyrola	3	4	5	5	17	L2	26-Apr-17
<i>Pyrola chlorantha</i>	green-flowered pyrola	5	5	5	5	20	L1	16-Apr-14
<i>Pyrus communis</i>	pear	1	ns	ns	ns	1	L+	26-Apr-17
<i>Pyrola elliptica</i>	shinleaf	1	4	4	4	13	L4	21-Jun-12
<i>Malus toringo</i>	Toringo crab-apple	5	ns	ns	ns	5	L+	11-Apr-03
<i>Quercus alba</i>	white oak	2	5	4	5	16	L3	26-Apr-17
<i>Quercus macrocarpa</i>	bur oak	1	4	3	3	11	L4	25-Apr-16
<i>Quercus robur</i>	English oak	3	ns	ns	ns	3	L+	26-Apr-17
<i>Quercus rubra</i>	red oak	1	4	2	4	11	L4	26-Apr-17
<i>Quercus velutina</i>	black oak	4	4	4	5	17	L2	7-Mar-08
<i>Quercus x bebbiana</i>	white-bur hybrid oak	5	3	5	4	17	L2	21-Jun-12
<i>Quercus x hawkinsii</i>	red-black hybrid oak	5	4	4	4	17	L2	21-Jun-12
<i>Ranunculus abortivus</i>	kidney-leaved buttercup	1	3	1	2	7	L5	26-Apr-17
<i>Ranunculus acris</i>	tall buttercup	1	ns	ns	ns	1	L+	26-Apr-17
<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	white water crowfoot	4	3	5	5	17	L2	16-Apr-14
<i>Ranunculus fascicularis</i>	early buttercup	5	5	4	4	18	LX	23-Apr-08
<i>Ficaria verna</i>	lesser celandine	4	ns	ns	ns	4	L+	26-Apr-17
<i>Ranunculus flabellaris</i>	yellow water crowfoot	4	4	4	5	17	L2	3-Feb-12
<i>Ranunculus hispidus</i> var. <i>caricetorum</i>	swamp buttercup	2	4	4	3	13	L4	26-Apr-17
<i>Ranunculus hispidus</i> var. <i>hispidus</i>	hispid buttercup	5	5	5	5	20	LX	23-Apr-08
<i>Ranunculus inundatus</i>	river buttercup	5	ns	ns	ns	5	L+	16-Apr-14
<i>Ranunculus lingua</i>	greater spearwort	5	ns	ns	ns	5	L+	27-Apr-17

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Ranunculus pensylvanicus</i>	bristly buttercup	3	3	4	3	13	L4	26-Apr-17
<i>Ranunculus recurvatus</i> var. <i>recurvatus</i>	hooked buttercup	1	3	2	3	9	L5	26-Apr-17
<i>Ranunculus repens</i>	creeping buttercup	2	ns	ns	ns	2	L+	26-Apr-17
<i>Ranunculus rhomboideus</i>	prairie buttercup	5	5	4	4	18	LX	29-Apr-15
<i>Ranunculus sceleratus</i>	cursed crowfoot	1	2	3	2	8	L5	26-Apr-17
<i>Raphanus raphanistrum</i>	wild radish	5	ns	ns	ns	5	L+	11-Apr-03
<i>Raphanus sativus</i>	radish	5	ns	ns	ns	5	L+	29-Apr-15
<i>Ratibida columnifera</i>	prairie coneflower	5	ns	ns	ns	5	L+	16-Apr-14
<i>Ratibida pinnata</i>	grey-headed coneflower	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rhamnus alniifolia</i>	alder-leaved buckthorn	3	3	4	4	14	L3	16-Apr-14
<i>Rhamnus cathartica</i>	common buckthorn	1	ns	ns	ns	1	L+	26-Apr-17
<i>Frangula alnus</i>	glossy buckthorn	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rheum rhabarbarum</i>	rhubarb	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rhodotypos scandens</i>	jet-bead	4	ns	ns	ns	4	L+	25-Apr-16
<i>Rhus aromatica</i>	fragrant sumach	4	ns	ns	ns	4	L+	26-Apr-17
<i>Rhus glabra</i>	smooth sumach	5	ns	ns	ns	5	L+	26-Apr-17
<i>Toxicodendron radicans</i> var. <i>radicans</i>	poison ivy (vine form)	2	2	4	2	10	L5	25-Apr-16
<i>Toxicodendron radicans</i> var. <i>rydbergii</i>	poison ivy (shrub form)	1	2	0	2	5	L5	26-Apr-17
<i>Rhus typhina</i>	staghorn sumach	1	1	2	2	6	L5	26-Apr-17
<i>Toxicodendron vernix</i>	poison sumach	5	5	4	5	19	LX	2-Jun-08
<i>Rhynchospora alba</i>	white beak-rush	5	5	5	5	20	L1	21-Jun-12
<i>Ribes americanum</i>	wild black currant	1	3	2	2	8	L5	26-Apr-17
<i>Ribes cynosbati</i>	prickly gooseberry	1	3	2	2	8	L5	26-Apr-17
<i>Ribes glandulosum</i>	skunk currant	5	3	4	4	16	L3	3-Feb-12
<i>Ribes hirtellum</i>	smooth gooseberry	3	4	4	4	15	L3	26-Apr-17
<i>Ribes hudsonianum</i>	northern black currant	5	4	5	5	19	L1	11-Apr-03
<i>Ribes nigrum</i>	black currant	4	ns	ns	ns	4	L+	25-Apr-16
<i>Ribes aureum</i> var. <i>villosum</i>	buffalo currant	4	ns	ns	ns	4	L+	29-Apr-15
<i>Ribes rubrum</i>	garden red currant	1	ns	ns	ns	1	L+	26-Apr-17
<i>Ribes triste</i>	swamp red currant	2	4	4	5	15	L3	26-Apr-17
<i>Ribes uva-crispa</i>	European gooseberry	5	ns	ns	ns	5	L+	25-Apr-16
<i>Robinia pseudoacacia</i>	black locust	1	ns	ns	ns	1	L+	26-Apr-17
<i>Robinia viscosa</i>	clammy locust	5	ns	ns	ns	5	L+	11-Apr-03
<i>Rorippa austriaca</i>	Austrian cress	5	ns	ns	ns	5	L+	29-Feb-12
<i>Rorippa palustris</i> ssp. <i>palustris</i>	Fernald's marsh cress	2	2	4	2	10	L5	26-Apr-17
<i>Rorippa palustris</i> ssp. <i>hispida</i>	hispid marsh cress	3	2	4	2	11	L4	26-Apr-17
<i>Rorippa sylvestris</i>	creeping yellow cress	5	ns	ns	ns	5	L+	26-Apr-17
<i>Rosa blanda</i>	smooth wild rose	1	3	3	4	11	L4	26-Apr-17
<i>Rosa canina</i>	dog rose	2	ns	ns	ns	2	L+	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Rosa carolina</i>	pasture rose	5	5	4	3	17	L2	7-Mar-08
<i>Rosa gallica</i>	cabbage rose	5	ns	ns	ns	5	L+	29-Apr-08
<i>Rosa glauca</i>	red-leaved rose	4	ns	ns	ns	4	L+	26-Apr-17
<i>Rosa davurica</i>	cinnamon rose	5	ns	ns	ns	5	L+	29-Apr-08
<i>Rosa rubiginosa</i> var. <i>nemoralis</i>	small-flowered rose	5	ns	ns	ns	5	L+	26-Apr-17
<i>Rosa multiflora</i>	multiflora rose	1	ns	ns	ns	1	L+	26-Apr-17
<i>Rosa palustris</i>	swamp rose	5	4	5	4	18	L2	16-Apr-14
<i>Rosa spinosissima</i>	burnet rose	5	ns	ns	ns	5	L+	16-Apr-14
<i>Rosa rubiginosa</i> var. <i>rubiginosa</i>	sweet brier rose	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rosa rugosa</i>	wrinkled rose	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rosa setigera</i>	prairie rose	5	ns	ns	ns	5	L+	29-Apr-15
<i>Rosa virginiana</i>	Virginia rose	3	ns	ns	ns	3	L+?	26-Apr-17
<i>Rubus allegheniensis</i>	common blackberry	1	3	0	1	5	L5	26-Apr-17
<i>Rubus canadensis</i>	smooth blackberry	5	3	4	3	15	LU	6-Jun-08
<i>Rubus flagellaris</i>	northern dewberry	3	3	4	4	14	L3	25-Apr-16
<i>Rubus hispida</i>	swamp dewberry	4	5	4	4	17	L2	25-Apr-16
<i>Rubus idaeus</i> ssp. <i>idaeus</i>	garden red raspberry	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rubus idaeus</i> ssp. <i>strigosus</i>	wild red raspberry	1	1	0	1	3	L5	26-Apr-17
<i>Rubus occidentalis</i>	wild black raspberry	1	1	0	1	3	L5	26-Apr-17
<i>Rubus odoratus</i>	purple-flowering raspberry	1	2	2	2	7	L5	26-Apr-17
<i>Rubus pensilvanicus</i>	Pennsylvania blackberry	5	3	3	3	14	L3	6-Jun-08
<i>Rubus phoenicolasius</i>	wine raspberry	5	ns	ns	ns	5	L+	7-Mar-16
<i>Rubus pubescens</i>	dwarf raspberry	2	3	3	5	13	L4	26-Apr-17
<i>Rudbeckia fulgida</i>	orange coneflower	3	ns	ns	ns	3	L+	26-Apr-17
<i>Rudbeckia hirta</i>	black-eyed Susan	1	4	4	3	12	L4	26-Apr-17
<i>Rudbeckia laciniata</i>	cut-leaved coneflower	3	2	4	2	11	L4	26-Apr-17
<i>Rudbeckia triloba</i>	brown-eyed Susan	2	ns	ns	ns	2	L+	25-Apr-16
<i>Rumex thyrsiflorus</i>	garden sorrel	5	ns	ns	ns	5	L+	11-Apr-03
<i>Rumex acetosella</i>	sheep sorrel	3	2	5	4	14	L+	26-Apr-17
<i>Rumex altissimus</i>	pale dock	5	ns	ns	ns	5	L+?	2-Jun-08
<i>Rumex crispus</i>	curly dock	1	ns	ns	ns	1	L+	26-Apr-17
<i>Rumex dentatus</i>	fiddle dock	5	ns	ns	ns	5	L+	11-Apr-03
<i>Rumex longifolius</i>	northern dock	5	ns	ns	ns	5	L+	11-Apr-03
<i>Rumex maritimus</i>	golden dock	5	ns	ns	ns	5	L+	16-Apr-14
<i>Rumex obtusifolius</i>	bitter dock	1	ns	ns	ns	1	L+	26-Apr-17
<i>Rumex britannica</i>	great water dock	3	3	4	4	14	L3	26-Apr-17
<i>Rumex patientia</i>	patience dock	5	ns	ns	ns	5	L+	11-Apr-03
<i>Rumex triangulivalvis</i>	willow-leaved dock	5	ns	ns	ns	5	L+	25-Apr-16
<i>Rumex verticillatus</i>	swamp dock	5	3	4	4	16	L3	26-Apr-17

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Sagittaria cuneata</i>	arum-leaved arrowhead	3	4	5	4	16	L3	26-Apr-17
<i>Sagittaria graminea</i> ssp. <i>graminea</i>	grass-leaved arrowhead	5	5	5	5	20	LX	23-Apr-08
<i>Sagina japonica</i>	Japanese pearlwort	5	ns	ns	ns	5	L+	11-Apr-03
<i>Sagittaria latifolia</i>	common arrowhead	1	2	5	4	12	L4	25-Apr-16
<i>Sagina procumbens</i>	pearlwort	5	ns	ns	ns	5	L+	29-Apr-15
<i>Sagittaria rigida</i>	sessile-fruited arrowhead	5	4	5	4	18	L2	28-Apr-16
<i>Salix alba</i>	white willow	1	ns	ns	ns	1	L+	26-Apr-17
<i>Salix amygdaloides</i>	peach-leaved willow	1	2	5	3	11	L4	26-Apr-17
<i>Salix aurita</i>	yellowish willow	5	ns	ns	ns	5	L+	29-Apr-08
<i>Salix bebbiana</i>	Bebb's willow	1	3	3	4	11	L4	26-Apr-17
<i>Salix candida</i>	hoary willow	5	4	5	4	18	L2	16-Apr-14
<i>Salix caprea</i>	goat willow	3	ns	ns	ns	3	L+	26-Apr-17
<i>Salix cinerea</i>	grey willow	4	ns	ns	ns	4	L+	26-Apr-17
<i>Salvia coerulea</i>	anise-scented sage	5	ns	ns	ns	5	L+	27-Apr-17
<i>Salsola collina</i>	Russian thistle	5	ns	ns	ns	5	L+	11-Apr-03
<i>Salix cordata</i>	heart-leaved willow	5	5	5	4	19	LX	23-Apr-08
<i>Salix daphnoides</i>	violet willow	5	ns	ns	ns	5	L+	29-Apr-08
<i>Salix discolor</i>	pussy willow	1	3	4	3	11	L4	25-Apr-16
<i>Salix eriocephala</i>	narrow heart-leaved willow	1	1	3	1	6	L5	26-Apr-17
<i>Salix interior</i>	sandbar willow	1	1	5	2	9	L5	26-Apr-17
<i>Salix humilis</i>	prairie willow	5	4	5	4	18	L2	11-Apr-03
<i>Salix lucida</i>	shining willow	2	4	5	3	14	L3	26-Apr-17
<i>Salix matsudana</i>	corkscrew willow	3	ns	ns	ns	3	L+	26-Apr-17
<i>Salvinia minima</i>	common salvinia	5	ns	ns	ns	5	L+	16-Apr-14
<i>Salix myricoides</i>	blue-leaved willow	5	5	5	4	19	LX	2-Jun-08
<i>Salix nigra</i>	black willow	3	2	5	4	14	L3	29-Apr-15
<i>Salix pedicellaris</i>	bog willow	4	4	5	4	17	L2	25-Apr-16
<i>Salix pentandra</i>	laurel willow	5	ns	ns	ns	5	L+	26-Apr-17
<i>Salix petiolaris</i>	slender willow	2	3	5	3	13	L4	26-Apr-17
<i>Salvia pratensis</i>	meadow sage	5	ns	ns	ns	5	L+	29-Apr-08
<i>Salix purpurea</i>	purple-osier willow	2	ns	ns	ns	2	L+	26-Apr-17
<i>Salvia reflexa</i>	deflexed sage	5	ns	ns	ns	5	L+	11-Apr-03
<i>Salvia sclarea</i>	clary sage	5	ns	ns	ns	5	L+	27-Apr-17
<i>Salix serissima</i>	autumn willow	4	3	5	5	17	L2	29-Feb-12
<i>Salsola tragus</i>	Russian thistle	5	ns	ns	ns	5	L+	26-Apr-17
<i>Salix triandra</i>	almond-leaved willow	5	ns	ns	ns	5	L+	29-Apr-08
<i>Salix viminalis</i>	basket willow	4	ns	ns	ns	4	L+	29-Apr-15
<i>Salix eriocephala</i> x <i>petiolaris</i>	hybrid shrub willow	5	1	4	3	13	L4	6-Jun-08
<i>Salix</i> x <i>pendulina</i>	Wisconsin weeping willow	4	ns	ns	ns	4	L+	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Salix x fragilis</i>	crack willow	1	ns	ns	ns	1	L+	26-Apr-17
<i>Salix x sepulcralis</i>	weeping willow	1	ns	ns	ns	1	L+	26-Apr-17
<i>Sambucus canadensis</i>	common elderberry	1	3	2	2	8	L5	26-Apr-17
<i>Sambucus racemosa</i> ssp. <i>pubens</i>	red-berried elder	1	3	2	2	8	L5	26-Apr-17
<i>Samolus parviflorus</i>	Valerand's water-pimpernel	5	4	5	4	18	LU	2-Jun-08
<i>Sanguinaria canadensis</i>	bloodroot	1	3	0	3	7	L5	26-Apr-17
<i>Sanicula marilandica</i>	sanicle	2	3	3	3	11	L4	26-Apr-17
<i>Poterium sanguisorba</i> var. <i>polygamum</i>	small burnet	5	ns	ns	ns	5	L+	11-Apr-03
<i>Sanicula odorata</i>	clustered sanicle	4	3	4	3	14	L3	25-Apr-16
<i>Saponaria officinalis</i>	bouncing Bet	1	ns	ns	ns	1	L+	26-Apr-17
<i>Sarracenia purpurea</i>	pitcher-plant	4	5	5	5	19	L1	26-Apr-17
<i>Sassafras albidum</i>	sassafras	5	2	4	2	13	L4	26-Apr-17
<i>Satureja hortensis</i>	summer savoury	5	ns	ns	ns	5	L+	11-Apr-03
<i>Micranthes virginiensis</i>	early saxifrage	5	5	5	5	20	L1	28-Apr-16
<i>Scheuchzeria palustris</i>	bog arrow-grass	5	5	4	5	19	LX	2-Jun-08
<i>Schizachne purpurascens</i>	purple melic grass	2	3	3	5	13	L4	16-Apr-14
<i>Schizachyrium scoparium</i>	little bluestem	4	4	5	5	18	L2	3-Feb-12
<i>Schoenoplectus acutus</i> var. <i>acutus</i>	hard-stemmed bulrush	3	3	5	4	15	L3	26-Apr-17
<i>Scirpus atrovirens</i>	black-fruited bulrush	1	2	4	2	9	L5	26-Apr-17
<i>Scirpus cyperinus</i>	woolly bulrush	1	3	3	5	12	L4	26-Apr-17
<i>Bolboschoenus fluviatilis</i>	river bulrush	3	2	5	4	14	L3	26-Apr-17
<i>Scirpus hattorianus</i>	smooth-sheathed black-fruited bulrush	5	2	4	4	15	LU	2-Jun-08
<i>Trichophorum alpinum</i>	alpine club-rush	5	3	5	5	18	L2	1-Mar-12
<i>Scirpus microcarpus</i>	barber-pole bulrush	1	2	4	3	10	L5	16-Apr-14
<i>Scilla mischtschenkoana</i>	white squill	5	ns	ns	ns	5	L+	16-Apr-14
<i>Scirpus pendulus</i>	drooping bulrush	2	4	5	4	15	L3	26-Apr-17
<i>Schoenoplectus pungens</i> var. <i>pungens</i>	three-square	3	2	5	3	13	L4	25-Apr-16
<i>Scilla siberica</i>	Siberian squill	2	ns	ns	ns	2	L+	26-Apr-17
<i>Schoenoplectiella smithii</i> var. <i>smithii</i>	Smith's club-rush	5	5	5	5	20	LX	23-Apr-08
<i>Schoenoplectus tabernaemontani</i>	soft-stemmed bulrush	1	2	5	3	11	L4	29-Apr-15
<i>Trichophorum planifolium</i>	shy bulrush	5	4	5	5	19	LX	23-Apr-08
<i>Scleranthus annuus</i>	knawel	5	ns	ns	ns	5	L+	11-Apr-03
<i>Scleria triglomerata</i>	tall nut-rush	5	5	5	4	19	LX	23-Apr-08
<i>Scleria verticillata</i>	low nut-rush	5	3	5	5	18	L2	16-Apr-14
<i>Scrophularia lanceolata</i>	lance-leaved figwort	5	3	4	2	14	L3	3-Feb-12
<i>Scrophularia marilandica</i>	carpenter's-square figwort	5	3	4	2	14	L3	26-Apr-17
<i>Scrophularia nodosa</i>	European figwort	4	ns	ns	ns	4	L+	16-Apr-14
<i>Scutellaria galericulata</i>	common skullcap	2	2	3	2	9	L5	26-Apr-17
<i>Scutellaria lateriflora</i>	mad-dog skullcap	2	2	3	3	10	L5	16-Apr-14

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Scutellaria parvula</i>	small skullcap	5	5	5	4	19	LX	23-Apr-08
<i>Secale cereale</i>	rye	5	ns	ns	ns	5	L+	26-Apr-17
<i>Sedum acre</i>	mossy stonecrop	3	ns	ns	ns	3	L+	26-Apr-17
<i>Sedum album</i>	white stonecrop	5	ns	ns	ns	5	L+	16-Apr-14
<i>Sedum hispanicum</i>	Spanish stonecrop	4	ns	ns	ns	4	L+	25-Apr-16
<i>Sedum sarmentosum</i>	Asiatic stonecrop	4	ns	ns	ns	4	L+	26-Apr-17
<i>Hylotelephium spectabile</i>	showy stonecrop	4	ns	ns	ns	4	L+	26-Apr-17
<i>Phedimus spurius</i>	false stonecrop	5	ns	ns	ns	5	L+	7-Mar-08
<i>Hylotelephium telephium</i>	live-forever	2	ns	ns	ns	2	L+	26-Apr-17
<i>Selaginella eclipses</i>	meadow spike-moss	5	5	5	5	20	L1	11-Apr-03
<i>Packera aurea</i>	golden ragwort	4	5	4	4	17	L2	29-Apr-15
<i>Jacobaea vulgaris</i>	stinking Willie ragwort	5	ns	ns	ns	5	L+	29-May-08
<i>Packera paupercula</i>	balsam ragwort	5	3	4	5	17	L2	21-Jun-12
<i>Senecio viscosus</i>	sticky groundsel	5	ns	ns	ns	5	L+	11-Apr-03
<i>Senecio vulgaris</i>	common groundsel	3	ns	ns	ns	3	L+	26-Apr-17
<i>Setaria faberi</i>	giant foxtail	3	ns	ns	ns	3	L+	26-Apr-17
<i>Setaria pumila</i> ssp. <i>pumila</i>	yellow foxtail	1	ns	ns	ns	1	L+	26-Apr-17
<i>Setaria italica</i>	foxtail millet	5	ns	ns	ns	5	L+	11-Apr-03
<i>Setaria verticillata</i>	bristly foxtail	3	ns	ns	ns	3	L+	26-Apr-17
<i>Setaria viridis</i>	green foxtail	1	ns	ns	ns	1	L+	26-Apr-17
<i>Shepherdia argentea</i>	silver buffalo-berry	5	ns	ns	ns	5	L+	11-Apr-03
<i>Sherardia arvensis</i>	blue field madder	5	ns	ns	ns	5	L+	11-Apr-03
<i>Shepherdia canadensis</i>	russet buffalo-berry	4	4	5	4	17	L2	25-Apr-16
<i>Sicyos angulatus</i>	bur cucumber	4	5	2	4	15	L3	16-Apr-14
<i>Silene antirrhina</i>	sleepy catchfly	4	4	4	5	17	L2	26-Apr-17
<i>Atocion armeria</i>	sweet William catchfly	5	ns	ns	ns	5	L+	29-Apr-15
<i>Silene csereii</i>	lesser bladder campion	5	ns	ns	ns	5	L+	11-Apr-03
<i>Silene dichotoma</i>	forking catchfly	5	ns	ns	ns	5	L+	11-Apr-03
<i>Silphium integrifolium</i>	rosinweed	5	ns	ns	ns	5	L+	25-Apr-16
<i>Silphium laciniatum</i>	compass-plant	5	ns	ns	ns	5	L+	26-Apr-17
<i>Silybum marianum</i>	milk thistle	5	ns	ns	ns	5	L+	29-Apr-15
<i>Silene noctiflora</i>	night-flowering catchfly	5	ns	ns	ns	5	L+	11-Apr-03
<i>Silphium perfoliatum</i>	cup-plant	3	1	3	2	9	L5	26-Apr-17
<i>Silene latifolia</i>	evening lychnis	2	ns	ns	ns	2	L+	26-Apr-17
<i>Silene vulgaris</i>	bladder campion	2	ns	ns	ns	2	L+	26-Apr-17
<i>Silene x hampeana</i>	hybrid campion	5	ns	ns	ns	5	L+	25-Apr-16
<i>Sinapis arvensis</i>	charlock	2	ns	ns	ns	2	L+	26-Apr-17
<i>Sisymbrium altissimum</i>	tumble mustard	3	ns	ns	ns	3	L+	25-Apr-16
<i>Sisymbrium loeselii</i>	Loesel's tumble mustard	5	ns	ns	ns	5	L+	25-Apr-16

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Sisyrinchium montanum</i>	blue-eyed grass	1	3	4	5	13	L4	25-Apr-16
<i>Sisymbrium officinale</i>	hedge mustard	4	ns	ns	ns	4	L+	26-Apr-17
<i>Sium suave</i>	water-parsnip	2	2	4	4	12	L4	26-Apr-17
<i>Smilax herbacea</i>	carrion-flower	1	3	2	2	8	L5	26-Apr-17
<i>Smilax tamnoides</i>	bristly greenbrier	2	3	3	3	11	L4	26-Apr-17
<i>Solidago altissima</i>	tall goldenrod	1	2	0	0	3	L5	26-Apr-17
<i>Solidago arguta</i> var. <i>arguta</i>	sharp-leaved goldenrod	5	5	4	4	18	L2	16-Apr-14
<i>Solidago bicolor</i>	silver-rod	5	5	4	5	19	LX	29-Apr-15
<i>Solidago caesia</i>	blue-stemmed goldenrod	1	2	4	2	9	L5	29-Apr-15
<i>Solidago canadensis</i> var. <i>canadensis</i>	Canada goldenrod	1	2	0	1	4	L5	26-Apr-17
<i>Solanum dulcamara</i>	bittersweet nightshade	1	ns	ns	ns	1	L+	26-Apr-17
<i>Solidago flexicaulis</i>	zig-zag goldenrod	1	1	3	2	7	L5	26-Apr-17
<i>Solidago gigantea</i>	late goldenrod	1	1	1	1	4	L5	26-Apr-17
<i>Solidago hispida</i>	hairy goldenrod	5	4	4	5	18	L2	29-Apr-15
<i>Solidago juncea</i>	early goldenrod	2	3	4	2	11	L4	26-Apr-17
<i>Solanum melongena</i>	eggplant	5	ns	ns	ns	5	L+	27-Apr-17
<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>	grey goldenrod	2	2	2	2	8	L5	26-Apr-17
<i>Solanum nigrum</i>	black nightshade	4	1	4	ns	9	L+	26-Apr-17
<i>Solidago ohioensis</i>	Ohio goldenrod	5	5	4	4	18	LX	2-Jun-08
<i>Solidago patula</i>	rough-leaved goldenrod	3	3	4	4	14	L3	26-Apr-17
<i>Solanum physalifolium</i>	Latin American nightshade	5	ns	ns	ns	5	L+	11-Apr-03
<i>Solidago ptarmicoides</i>	upland white goldenrod	5	5	5	4	19	L1	24-Apr-08
<i>Solanum ptychanthum</i>	American black nightshade	2	1	4	0	7	L5	26-Apr-17
<i>Solidago rigida</i> ssp. <i>rigida</i>	stiff goldenrod	5	5	5	4	19	LX	2-Jun-08
<i>Solanum rostratum</i>	buffalo-bur	5	ns	ns	ns	5	L+	21-Jun-12
<i>Solidago rugosa</i> ssp. <i>rugosa</i>	rough-stemmed goldenrod	2	3	2	3	10	L5	26-Apr-17
<i>Solidago squarrosa</i>	stout goldenrod	5	5	4	4	18	L2	16-Apr-14
<i>Solanum triflorum</i>	cut-leaved nightshade	5	ns	ns	ns	5	L+	25-Apr-16
<i>Solidago uliginosa</i>	bog goldenrod	4	4	5	4	17	L2	29-Apr-15
<i>Sonchus arvensis</i> ssp. <i>arvensis</i>	glandular perennial sow-thistle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Sonchus arvensis</i> ssp. <i>uliginosus</i>	smooth perennial sow-thistle	2	ns	ns	ns	2	L+	26-Apr-17
<i>Sonchus asper</i>	spiny sow-thistle	2	ns	ns	ns	2	L+	26-Apr-17
<i>Sonchus oleraceus</i>	annual sow-thistle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Sorbus americana</i>	American mountain-ash	5	ns	5	ns	10	LU	2-Jun-08
<i>Sorbus aucuparia</i>	European mountain-ash	1	ns	ns	ns	1	L+	26-Apr-17
<i>Sorbus intermedia</i>	Swedish white-beam	5	ns	ns	ns	5	L+	16-Apr-14
<i>Sorghastrum nutans</i>	Indian grass	5	4	5	4	18	L2	25-Apr-16
<i>Sorbaria sorbifolia</i>	false spiraea	2	ns	ns	ns	2	L+	26-Apr-17
<i>Sparganium americanum</i>	Nuttall's bur-reed	4	4	5	3	16	LU	28-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Sparganium emersum</i>	green-fruited bur-reed	2	3	5	4	14	L3	26-Apr-17
<i>Sparganium eurycarpum</i>	great bur-reed	2	4	5	4	15	L3	16-Apr-14
<i>Sparganium natans</i>	lesser bur-reed	5	3	5	5	18	L2	11-Apr-03
<i>Spartina pectinata</i>	prairie cord grass	4	3	5	3	15	L3	25-Apr-16
<i>Spergula arvensis</i>	corn spurrey	5	ns	ns	ns	5	L+	11-Apr-03
<i>Spergularia salina</i>	salt-marsh sand spurrey	3	ns	ns	ns	3	L+	26-Apr-17
<i>Spergularia media</i>	intermediate sand spurrey	3	ns	ns	ns	3	L+	26-Apr-17
<i>Spergularia rubra</i>	red sand spurrey	5	ns	ns	ns	5	L+	11-Apr-03
<i>Sphenopholis intermedia</i>	slender wedge grass	2	3	4	4	13	L4	25-Apr-16
<i>Spiraea alba</i>	wild spiraea	2	4	4	3	13	L4	26-Apr-17
<i>Spiranthes casei</i>	Case's ladies' tresses	5	4	5	5	19	L1	2-Jun-08
<i>Spiranthes cernua</i>	nodding ladies' tresses	3	3	5	4	15	L3	26-Apr-17
<i>Spiraea japonica</i>	Japanese spiraea	4	ns	ns	ns	4	L+	26-Apr-17
<i>Spiranthes lacera</i> var. <i>gracilis</i>	southern slender ladies' tresses	5	5	5	4	19	LX	24-Apr-08
<i>Spiranthes lacera</i> var. <i>lacera</i>	northern slender ladies' tresses	5	5	5	5	20	L1	3-Feb-12
<i>Spiranthes lucida</i>	shining ladies' tresses	4	4	5	5	18	L2	29-Apr-15
<i>Spirodela polyrhiza</i>	greater duckweed	1	4	5	3	13	L4	26-Apr-17
<i>Spiranthes romanzoffiana</i>	hooded ladies' tresses	5	4	5	5	19	L1	11-Apr-03
<i>Spiraea tomentosa</i>	hardhack	5	4	5	4	18	L2	24-Apr-08
<i>Spiraea x vanhouttei</i>	bridalwreath spiraea	4	ns	ns	ns	4	L+	26-Apr-17
<i>Sporobolus compositus</i> var. <i>compositus</i>	rough dropseed	5	3	5	4	17	L2	21-Jun-12
<i>Sporobolus cryptandrus</i>	sand dropseed	3	3	5	3	14	L3	26-Apr-17
<i>Sporobolus neglectus</i>	overlooked dropseed	3	ns	ns	ns	3	L+?	26-Apr-17
<i>Sporobolus vaginiflorus</i>	ensheathed dropseed	3	ns	ns	ns	3	L+?	26-Apr-17
<i>Stachys byzantina</i>	lamb's-ears	5	ns	ns	ns	5	L+	16-Apr-14
<i>Stachys hispida</i>	rough hedge-nettle	5	4	4	3	16	L3	21-Jun-12
<i>Stachys palustris</i>	marsh hedge-nettle	3	3	4	3	13	L+	26-Apr-17
<i>Staphylea trifolia</i>	bladdernut	4	3	4	4	15	L3	26-Apr-17
<i>Stellaria graminea</i>	grass-leaved chickweed	2	ns	ns	ns	2	L+	25-Apr-16
<i>Stellaria longifolia</i>	long-leaved chickweed	2	3	4	4	13	L4	25-Apr-16
<i>Stellaria media</i>	common chickweed	3	ns	ns	ns	3	L+	26-Apr-17
<i>Stratiotes aloides</i>	water-soldier	5	ns	ns	ns	5	L+	29-Apr-08
<i>Streptopus lanceolatus</i> var. <i>lanceolatus</i>	rose twisted-stalk	1	4	4	5	14	L3	26-Apr-17
<i>Stylophorum diphyllum</i>	wood-poppy	5	ns	ns	ns	5	L+	25-Apr-16
<i>Symphoricarpos albus</i> var. <i>albus</i>	eastern snowberry	2	4	4	5	15	L3	26-Apr-17
<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	western snowberry	2	ns	ns	ns	2	L+	26-Apr-17
<i>Symphytum asperum</i>	prickly comfrey	5	ns	ns	ns	5	L+	11-Apr-03
<i>Symplocarpus foetidus</i>	skunk cabbage	3	2	4	3	12	L4	26-Apr-17
<i>Symphoricarpos occidentalis</i>	wolf-berry	5	ns	ns	ns	5	L+	11-Apr-03

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Symphytum officinale</i>	common comfrey	2	ns	ns	ns	2	L+	26-Apr-17
<i>Syringa reticulata</i>	Japanese tree lilac	4	ns	ns	ns	4	L+	26-Apr-17
<i>Syringa villosa</i>	downy lilac	4	ns	ns	ns	4	L+	26-Apr-17
<i>Syringa vulgaris</i>	common lilac	1	ns	ns	ns	1	L+	26-Apr-17
<i>Syringa x prestoniae</i>	Preston lilac	5	ns	ns	ns	5	L+	16-Apr-14
<i>Taenidia integerrima</i>	yellow pimpernel	4	4	4	5	17	L2	1-Mar-12
<i>Tanacetum parthenium</i>	feverfew	4	ns	ns	ns	4	L+	25-Apr-16
<i>Tanacetum vulgare</i>	tansy	2	ns	ns	ns	2	L+	26-Apr-17
<i>Taraxacum erythrospermum</i>	red-seeded dandelion	5	ns	ns	ns	5	L+	26-Apr-17
<i>Taraxacum officinale</i>	dandelion	1	ns	ns	ns	1	L+	26-Apr-17
<i>Taraxacum palustre</i>	marsh dandelion	4	ns	ns	ns	4	L+	26-Apr-17
<i>Taxus canadensis</i>	Canada yew	2	4	4	5	15	L3	26-Apr-17
<i>Taxus cuspidata</i>	Japanese yew	3	ns	ns	ns	3	L+	26-Apr-17
<i>Teucrium canadense</i> ssp. <i>canadense</i>	wood-sage	3	3	4	4	14	L3	26-Apr-17
<i>Thalictrum delavayi</i>	Chinese meadow-rue	5	ns	ns	ns	5	L+	22-Apr-14
<i>Thalictrum dioicum</i>	early meadow rue	1	3	3	2	9	L5	25-Apr-16
<i>Thalictrum pubescens</i>	tall meadow rue	1	3	2	2	8	L5	16-Apr-14
<i>Thalictrum thalictroides</i>	rue anemone	5	5	4	5	19	LX	24-Apr-08
<i>Thelypteris noveboracensis</i>	New York fern	3	4	5	5	17	L2	25-Apr-16
<i>Thelypteris palustris</i> var. <i>pubescens</i>	marsh fern	1	4	2	4	11	L4	26-Apr-17
<i>Thlaspi arvense</i>	penny-cress	2	ns	ns	ns	2	L+	26-Apr-17
<i>Thuja occidentalis</i>	white cedar	1	4	1	5	11	L4	26-Apr-17
<i>Thymus praecox</i> ssp. <i>arcticus</i>	creeping thyme	4	ns	ns	ns	4	L+	25-Apr-16
<i>Tiarella cordifolia</i>	foam-flower	1	3	3	4	11	L4	26-Apr-17
<i>Tilia americana</i>	basswood	1	3	2	3	9	L5	26-Apr-17
<i>Tilia cordata</i>	little-leaf linden	2	ns	ns	ns	2	L+	26-Apr-17
<i>Tilia americana</i> var. <i>heterophylla</i>	white basswood	5	ns	ns	ns	5	L+	11-Apr-03
<i>Tilia x flavescens</i>	hybrid linden	4	ns	ns	ns	4	L+	25-Apr-16
<i>Triantha occidentalis</i> ssp. <i>brevistyla</i>	sticky false asphodel	5	5	4	5	19	LX	2-Jun-08
<i>Torilis arvensis</i>	hedge-parsley	5	ns	ns	ns	5	L+	3-Feb-12
<i>Torreyochloa pallida</i> var. <i>fernaldii</i>	Fernald's manna grass	5	3	5	5	18	L2	6-Jun-08
<i>Torilis japonica</i>	hedge-parsley	2	ns	ns	ns	2	L+	26-Apr-17
<i>Tragopogon dubius</i>	lemon-yellow goat's beard	1	ns	ns	ns	1	L+	26-Apr-17
<i>Tragopogon porrifolius</i>	salsify	5	ns	ns	ns	5	L+	11-Apr-03
<i>Tragopogon pratensis</i>	meadow goat's beard	1	ns	ns	ns	1	L+	26-Apr-17
<i>Tradescantia virginiana</i>	Virginia spiderwort	5	ns	ns	ns	5	L+	16-Apr-14
<i>Triticum aestivum</i>	wheat	4	ns	ns	ns	4	L+	26-Apr-17
<i>Trifolium arvense</i>	rabbit-foot clover	5	ns	ns	ns	5	L+	16-Apr-14
<i>Triosteum aurantiacum</i>	wild coffee	2	5	4	3	14	L3	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Trifolium aureum</i>	hop-clover	3	ns	ns	ns	3	L+	26-Apr-17
<i>Trientalis borealis</i>	star-flower	1	4	4	5	14	L3	26-Apr-17
<i>Trifolium campestre</i>	large hop-clover	5	ns	ns	ns	5	L+	25-Apr-16
<i>Trillium cernuum</i>	nodding trillium	5	2	5	5	17	L2	29-Apr-15
<i>Trillium cuneatum</i>	sweet toadshade	5	ns	ns	ns	5	L+	16-Apr-14
<i>Trillium erectum</i>	red trillium	1	4	3	5	13	L4	26-Apr-17
<i>Trifolium fragiferum</i>	strawberry clover	5	ns	ns	ns	5	L+	25-Apr-16
<i>Hypericum fraseri</i>	marsh St. John's-wort	3	5	4	5	17	L2	26-Apr-17
<i>Trillium grandiflorum</i>	white trillium	1	3	4	5	13	L4	26-Apr-17
<i>Trifolium hybridum</i>	alsike clover	2	ns	ns	ns	2	L+	26-Apr-17
<i>Trifolium incarnatum</i>	crimson clover	5	ns	ns	ns	5	L+	11-Apr-03
<i>Trillium discolor</i>	small yellow toadshade	5	ns	ns	ns	5	L+	29-Apr-08
<i>Triglochin maritima</i>	seaside arrow-grass	5	5	5	5	20	L1	24-Apr-08
<i>Trifolium medium</i>	zig-zag clover	5	ns	ns	ns	5	L+	11-Apr-03
<i>Triglochin palustris</i>	marsh arrow-grass	5	5	5	4	19	LX	24-Apr-08
<i>Trifolium pratense</i>	red clover	1	ns	ns	ns	1	L+	26-Apr-17
<i>Trifolium repens</i>	white clover	1	ns	ns	ns	1	L+	26-Apr-17
<i>Trillium undulatum</i>	painted trillium	5	5	4	5	19	L1	21-Jun-12
<i>Trollius europaeus</i>	European globeflower	4	ns	ns	ns	4	L+	26-Apr-17
<i>Tsuga canadensis</i>	eastern hemlock	1	4	3	5	13	L4	26-Apr-17
<i>Tulipa sylvestris</i>	wild tulip	4	ns	ns	ns	4	L+	26-Apr-17
<i>Tulipa x hybrida</i>	garden tulip	3	ns	ns	ns	3	L+	26-Apr-17
<i>Tussilago farfara</i>	coltsfoot	1	ns	ns	ns	1	L+	26-Apr-17
<i>Typha angustifolia</i>	narrow-leaved cattail	1	ns	ns	ns	1	L+	25-Apr-16
<i>Typha latifolia</i>	broad-leaved cattail	1	4	4	4	13	L4	26-Apr-17
<i>Typha x glauca</i>	hybrid cattail	1	ns	ns	ns	1	L+	26-Apr-17
<i>Ulmus americana</i>	white elm	1	4	0	2	7	L5	26-Apr-17
<i>Ulmus glabra</i>	Scotch elm	2	ns	ns	ns	2	L+	26-Apr-17
<i>Ulmus pumila</i>	Siberian elm	1	ns	ns	ns	1	L+	26-Apr-17
<i>Ulmus rubra</i>	slippery elm	3	5	4	3	15	L3	26-Apr-17
<i>Ulmus thomasii</i>	rock elm	4	4	4	3	15	L3	26-Apr-17
<i>Urtica dioica</i> ssp. <i>dioica</i>	European stinging nettle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Urtica dioica</i> ssp. <i>gracilis</i>	American stinging nettle	1	3	2	2	8	L5	26-Apr-17
<i>Urtica urens</i>	dwarf nettle	5	ns	ns	ns	5	L+	16-Apr-14
<i>Utricularia intermedia</i>	flat-leaved bladderwort	4	5	5	5	19	L1	16-Apr-14
<i>Utricularia minor</i>	small bladderwort	4	4	5	5	18	L2	16-Apr-14
<i>Utricularia vulgaris</i>	common bladderwort	3	4	5	4	16	L3	25-Apr-16
<i>Uvularia grandiflora</i>	large-flowered bellwort	1	4	5	5	15	L3	26-Apr-17
<i>Vaccinium angustifolium</i>	lowbush blueberry	5	4	4	5	18	L2	16-Apr-14

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Vaccinium corymbosum</i>	highbush blueberry	5	5	5	4	19	L1	11-Apr-03
<i>Vaccaria hispanica</i>	Spanish cow-herb	5	ns	ns	ns	5	L+	25-Apr-16
<i>Vaccinium macrocarpon</i>	large cranberry	4	5	5	4	18	L2	16-Apr-14
<i>Vaccinium myrtilloides</i>	velvet-leaf blueberry	3	4	4	5	16	L3	16-Apr-14
<i>Vaccinium oxycoccos</i>	small cranberry	4	5	5	4	18	L2	25-Apr-16
<i>Vaccinium pallidum</i>	hillside blueberry	4	4	5	5	18	L2	26-Apr-17
<i>Vallisneria americana</i>	tape-grass	3	4	5	4	16	L3	26-Apr-17
<i>Valeriana officinalis</i>	common valerian	2	ns	ns	ns	2	L+	26-Apr-17
<i>Valeriana uliginosa</i>	swamp valerian	5	5	5	4	19	L1	29-Apr-15
<i>Veronica americana</i>	American speedwell	2	3	4	4	13	L4	26-Apr-17
<i>Veronica anagallis-aquatica</i>	water speedwell	2	3	4	3	12	L4	26-Apr-17
<i>Veronica arvensis</i>	corn speedwell	2	ns	ns	ns	2	L+	25-Apr-16
<i>Veronica austriaca</i>	broad-leaved speedwell	5	ns	ns	ns	5	L+	25-Apr-16
<i>Verbascum blattaria</i>	moth mullein	4	ns	ns	ns	4	L+	26-Apr-17
<i>Verbena bonariensis</i>	cluster-top vervain	5	ns	ns	ns	5	L+	1-Mar-12
<i>Verbena bracteata</i>	creeping vervain	5	ns	ns	ns	5	L+	25-Apr-16
<i>Veronica chamaedrys</i>	germander speedwell	5	ns	ns	ns	5	L+	16-Apr-14
<i>Veronica filiformis</i>	hair-like speedwell	5	ns	ns	ns	5	L+	11-Apr-03
<i>Vernonia gigantea</i>	tall ironweed	5	ns	ns	ns	5	L+	16-Apr-14
<i>Verbena hastata</i>	blue vervain	1	2	4	2	9	L5	26-Apr-17
<i>Veronica longifolia</i>	long-leaved speedwell	4	ns	ns	ns	4	L+	26-Apr-17
<i>Veronica officinalis</i>	common speedwell	1	ns	ns	ns	1	L+	26-Apr-17
<i>Veronica peregrina</i> ssp. <i>peregrina</i>	purslane speedwell	3	ns	ns	ns	3	L+?	29-Apr-15
<i>Veronica persica</i>	Persian speedwell	4	ns	ns	ns	4	L+	26-Apr-17
<i>Verbascum phlomoides</i>	clasping mullein	5	ns	ns	ns	5	L+	11-Apr-03
<i>Veronica scutellata</i>	marsh speedwell	3	2	5	4	14	L3	26-Apr-17
<i>Veronica serpyllifolia</i> ssp. <i>serpyllifolia</i>	thyme-leaved speedwell	1	ns	ns	ns	1	L+	26-Apr-17
<i>Verbena simplex</i>	slender vervain	5	3	5	4	17	L2	11-Apr-03
<i>Verbena stricta</i>	hoary vervain	3	5	4	4	16	L3	25-Apr-16
<i>Verbascum thapsus</i>	common mullein	1	ns	ns	ns	1	L+	26-Apr-17
<i>Verbena urticifolia</i>	white vervain	1	2	2	2	7	L5	25-Apr-16
<i>Veronica verna</i>	spring speedwell	3	ns	ns	ns	3	L+	26-Apr-17
<i>Veronicastrum virginicum</i>	Culver's root	5	ns	ns	ns	5	L+	29-May-08
<i>Verbena x engelmannii</i>	hybrid vervain	5	2	3	2	12	L4	6-Jun-08
<i>Viburnum acerifolium</i>	maple-leaved viburnum	2	3	4	5	14	L3	26-Apr-17
<i>Viburnum nudum</i> var. <i>cassinoides</i>	withe-rod	3	4	5	5	17	L2	26-Apr-17
<i>Viburnum lantana</i>	wayfaring tree	1	ns	ns	ns	1	L+	26-Apr-17
<i>Viburnum lantanoides</i>	hobblebush	4	4	5	5	18	L2	16-Apr-14
<i>Viburnum lentago</i>	nannyberry	1	3	1	2	7	L5	26-Apr-17

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Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Viburnum opulus</i> ssp. <i>opulus</i>	European highbush cranberry	1	ns	ns	ns	1	L+	26-Apr-17
<i>Viburnum rafinesquianum</i>	downy arrow-wood	4	5	4	4	17	L2	16-Apr-14
<i>Viburnum recognitum</i>	southern arrow-wood	5	ns	ns	ns	5	L+	3-Feb-12
<i>Viburnum opulus</i> ssp. <i>trilobum</i>	American highbush cranberry	4	5	4	4	17	L2	26-Apr-17
<i>Vicia americana</i>	American vetch	5	5	2	4	16	LU	29-Apr-15
<i>Vicia cracca</i>	cow vetch	1	ns	ns	ns	1	L+	26-Apr-17
<i>Vicia sativa</i> var. <i>angustifolia</i>	common vetch	5	ns	ns	ns	5	L+	25-Apr-16
<i>Vicia tetrasperma</i>	slender vetch	3	ns	ns	ns	3	L+	25-Apr-16
<i>Vicia villosa</i>	hairy vetch	5	ns	ns	ns	5	L+	25-Apr-16
<i>Vinca minor</i>	periwinkle	1	ns	ns	ns	1	L+	26-Apr-17
<i>Viola adunca</i>	hooked-spur violet	5	5	5	4	19	L1	3-Feb-12
<i>Viola sororia</i> var. <i>affinis</i>	Le Conte's violet	2	4	4	3	13	L4	26-Apr-17
<i>Viola arvensis</i>	field pansy	4	ns	ns	ns	4	L+	26-Apr-17
<i>Viola blanda</i>	sweet white violet	2	4	4	5	15	L3	29-Apr-15
<i>Viola canadensis</i>	Canada violet	2	4	4	4	14	L3	26-Apr-17
<i>Viola labradorica</i>	dog violet	1	2	0	2	5	L5	29-Apr-15
<i>Viola cucullata</i>	marsh blue violet	2	3	4	4	13	L4	25-Apr-16
<i>Viola macloskeyi</i>	northern white violet	3	4	4	3	14	L3	26-Apr-17
<i>Viola odorata</i>	sweet violet	3	ns	ns	ns	3	L+	26-Apr-17
<i>Viola pubescens</i>	stemmed yellow violet (sensu lato)	1	3	1	2	7	L5	26-Apr-17
<i>Viola pubescens</i> var. <i>pubescens</i>	downy yellow violet	2	4	1	2	9	L5	26-Apr-17
<i>Viola pubescens</i> var. <i>scabriuscula</i>	smooth yellow violet	2	4	1	2	9	L5	26-Apr-17
<i>Viola renifolia</i>	kidney-leaved violet	3	4	5	3	15	L3	25-Apr-16
<i>Viola rostrata</i>	long-spurred violet	2	4	4	4	14	L3	26-Apr-17
<i>Viola sagittata</i> var. <i>ovata</i>	arrow-leaved violet	5	5	4	5	19	L1	3-Feb-12
<i>Viola selkirkii</i>	Selkirk's violet	3	3	4	4	14	L3	26-Apr-17
<i>Viola sororia</i> var. <i>sororia</i>	common blue violet	1	2	0	2	5	L5	26-Apr-17
<i>Viola tricolor</i>	Johnny jump-up	4	ns	ns	ns	4	L+	29-Apr-15
<i>Vitis aestivalis</i>	summer grape	5	ns	5	ns	10	LU	8-Apr-10
<i>Vitis labrusca</i>	fox grape	5	ns	ns	ns	5	L+	3-Feb-12
<i>Vitis riparia</i>	riverbank grape	1	1	0	0	2	L5	26-Apr-17
<i>Geum fragarioides</i>	barren strawberry	2	4	4	3	13	L4	25-Apr-16
<i>Wisteria sinensis</i>	Chinese wisteria	5	ns	ns	ns	5	L+	29-Apr-15
<i>Wolffia borealis</i>	dotted water-meal	2	4	5	2	13	L4	26-Apr-17
<i>Wolffia columbiana</i>	Columbia water-meal	2	4	5	2	13	L4	26-Apr-17
<i>Woodwardia virginica</i>	Virginia chain-fern	5	5	5	4	19	L1	24-Apr-08
<i>Xanthium spinosum</i>	spiny cocklebur	5	ns	ns	ns	5	L+	16-Apr-14
<i>Xanthium strumarium</i>	clotbur	2	1	4	0	7	L5	26-Apr-17
<i>Yucca filamentosa</i>	Adam's needle	4	ns	ns	ns	4	L+	25-Apr-16

Appendix 1: Flora Species for Entire TRCA Jurisdiction (2017)

Scientific Name	Common Name	Local Occur 1-5	Popn. Trend 1-5	Hab. Dep. 0-5	Sens. Dev. 0-5	Total Score 2-20	Rank TRCA (Apr-17)	Score Date
<i>Zanthoxylum americanum</i>	prickly-ash	3	4	4	3	14	L3	25-Apr-16
<i>Zannichellia palustris</i>	horned pondweed	5	5	5	4	19	L1	3-Feb-12
<i>Zea mays</i>	maize	5	ns	ns	ns	5	L+	11-Apr-03
<i>Anticlea elegans</i>	white camas	5	5	4	5	19	LX	24-Apr-08
<i>Zizania aquatica</i> var. <i>aquatica</i>	southern wild rice	5	e	e	e	5	LX	11-Apr-03
<i>Zizia aurea</i>	golden Alexanders	4	4	4	3	15	L3	29-Apr-15
<i>Zizania palustris</i> var. <i>palustris</i>	northern wild rice	4	4	5	5	18	L2	26-Apr-17
Legend								
L1-L3: species of regional conservation concern	ns: criterion not scored							
L4: species of conservation concern in urban area	e: extirpated from site							
L5: species not of conservation concern at this time	cf: identification not certain							
LX: species is extirpated from TRCA	p: planted only							
L+: introduced species, not native to TRCA	pr: regenerating but of planted origin							
L+?: species is probably introduced	pn: both natural origin and planted							
		Total # of species in TRCA		1879	100%			
		Extant native species		929	49%	1879		
		Exotic species (extant and historical)		833	44%	833		
		Extirpated native species (LX)		99	5%	99		
		L1 to L3 native species		558	30%	558		
		L4 native species		175	9%	175		
		L5 native species		190	10%	185		
		Hybrid natives not yet scored (LH)		6	0.3%	6		
		Occurrence uncertain species (LU)		18	1%	19		

Appendix 2: Fauna Ranks and Scores for TRCA Jurisdiction, 2017.

Survey Species: species for which the TRCA protocol effectively surveys.													
Birds													
Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank	
Louisiana waterthrush	<i>Parkesia motacilla</i>	LOWA	4	2	2	4	1	5	5	2	25	L1	
American coot	<i>Fulica americana</i>	AMCO	4	1	2	3	2	5	3	1	21	L2	
American wigeon	<i>Anas penelope</i>	AMWI	5	4	2	3	2	4	2	0	20	L2	
barred owl	<i>Strix varia</i>	BADO	4	2	2	5	2	4	3	1	23	L2	
black and white warbler	<i>Mniotilta varia</i>	BAWW	2	3	3	4	2	5	2	1	22	L2	
broad-winged hawk	<i>Buteo platypterus</i>	BWHA	3	2	2	5	1	3	4	1	21	L2	
Canada warbler	<i>Cardellina canadensis</i>	CAWA	4	4	2	3	1	5	3	1	23	L2	
canvasback	<i>Aythya valisineria</i>	CANV	5	2	2	4	1	3	3	0	20	L2	
common moorhen	<i>Gallinula chloropus</i>	COMO	4	3	2	3	2	4	3	0	21	L2	
golden-winged warbler	<i>Vermivora chrysoptera</i>	GWWA	5	3	3	3	1	5	2	1	23	L2	
grasshopper sparrow	<i>Ammodramus savannarum</i>	GRSP	3	4	2	3	2	3	3	0	20	L2	
green-winged teal	<i>Anas crecca</i>	GWTE	5	2	3	3	2	4	2	0	21	L2	
hooded warbler	<i>Setophaga citrina</i>	HOWA	3	1	2	4	1	5	3	1	20	L2	
Kentucky warbler	<i>Geothlypis formosus</i>	KEWA	5	4	2	3	1	5	3	1	24	L2	
least bittern	<i>Ixobrychus exilis</i>	LEBI	4	2	2	4	2	4	3	0	21	L2	
northern goshawk	<i>Accipiter gentilis</i>	NOGO	4	2	2	5	1	3	3	1	21	L2	
northern harrier	<i>Circus cyaneus</i>	NOHA	4	3	3	4	1	3	3	0	21	L2	
olive-sided flycatcher	<i>Contopus cooperi</i>	OSFL	5	4	2	4	1	4	3	0	23	L2	
ovenbird	<i>Seiurus aurocapillus</i>	OVEN	0	2	2	4	2	5	4	1	20	L2	
red-shouldered hawk	<i>Buteo lineatus</i>	RSHA	4	2	2	5	1	3	4	1	22	L2	
ring-necked duck	<i>Aythya collaris</i>	RNDU	5	2	2	3	1	4	3	0	20	L2	
upland sandpiper	<i>Bartramia longicauda</i>	UPSA	4	1	2	3	2	5	2	1	20	L2	
veery	<i>Catharus fuscescens</i>	VEER	2	4	2	3	1	5	2	1	20	L2	
whip-poor-will	<i>Caprimulgus vociferus</i>	EWPW	5	2	2	4	2	5	2	1	23	L2	
Acadian flycatcher	<i>Empidonax virescens</i>	ACFL	4	3	2	3	1	3	2	0	18	L3	
alder flycatcher	<i>Empidonax alnorum</i>	ALFL	1	4	2	1	1	4	2	0	15	L3	
American bittern	<i>Botaurus lentiginosus</i>	AMBI	4	2	2	3	2	3	3	0	19	L3	
American black duck	<i>Anas rubripes</i>	ABDU	4	2	2	1	2	3	1	0	15	L3	
American woodcock	<i>Scolopax minor</i>	AMWO	0	2	3	3	2	4	2	0	16	L3	
bank swallow	<i>Riparia riparia</i>	BANS	1	5	2	1	1	3	3	0	16	L3	
black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	BBCU	1	3	3	3	1	3	3	0	17	L3	
black-crowned night-heron	<i>Nycticorax nycticorax</i>	BCNH	5	2	2	3	1	4	2	0	19	L3	
black-throated blue warbler	<i>Setophaga caeruleascens</i>	BTBW	4	2	2	3	1	4	3	0	19	L3	
black-throated green warbler	<i>Setophaga virens</i>	BTNW	1	1	2	3	1	4	3	0	15	L3	
Blackburnian warbler	<i>Setophaga fusca</i>	BLBW	3	1	2	3	1	4	4	0	18	L3	

Appendix 2: Fauna Ranks and Scores for TRCA Jurisdiction, 2017.

Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
blue-headed vireo	<i>Vireo solitarius</i>	BHVI	4	2	2	3	1	3	2	0	17	L3
blue-winged teal	<i>Anas discors</i>	BWTE	4	2	2	3	2	3	2	0	18	L3
blue-winged warbler	<i>Vermivora cyanoptera</i>	BWWA	3	2	2	3	1	5	2	1	19	L3
bobolink	<i>Dolichonyx oryzivorus</i>	BOBO	0	4	4	3	1	5	1	1	19	L3
brown thrasher	<i>Toxostoma rufum</i>	BRTH	0	4	2	2	2	4	1	0	15	L3
Caspian tern	<i>Sterna caspia</i>	CATE	5	2	2	3	1	2	3	0	18	L3
chestnut-sided warbler	<i>Setophaga pensylvanica</i>	CSWA	3	4	3	3	1	4	1	0	19	L3
clay-coloured sparrow	<i>Spizella pallida</i>	CCSP	2	4	2	2	1	4	1	0	16	L3
common merganser	<i>Mergus merganser</i>	COME	5	3	2	3	2	2	2	0	19	L3
common nighthawk	<i>Chordeiles minor</i>	CONI	3	4	2	1	1	4	2	0	17	L3
common tern	<i>Sterna hirundo</i>	COTE	4	3	2	2	1	2	3	0	17	L3
double-crested cormorant	<i>Phalacrocorax auritus</i>	DCCO	4	2	2	3	1	4	3	0	19	L3
eastern meadowlark	<i>Sturnella magna</i>	EAME	0	4	3	3	1	5	1	1	18	L3
eastern towhee	<i>Pipilo erythrophthalmus</i>	EATO	1	4	2	2	2	4	1	0	16	L3
golden-crowned kinglet	<i>Regulus satrapa</i>	GCKI	3	3	2	3	1	3	3	0	18	L3
great blue heron	<i>Ardea herodias</i>	GBHE	3	2	2	3	1	4	2	0	17	L3
great egret	<i>Casmerodius albus</i>	GREG	5	1	2	3	1	4	2	0	18	L3
hermit thrush	<i>Catharus guttatus</i>	HETH	4	1	2	3	1	5	1	1	18	L3
hooded merganser	<i>Lophodytes cucullatus</i>	HOME	1	2	1	4	2	3	2	0	15	L3
horned lark	<i>Eremophila alpestris</i>	HOLA	1	4	2	2	1	3	2	0	15	L3
long-eared owl	<i>Asio otus</i>	LEOW	4	2	2	2	2	3	3	0	18	L3
magnolia warbler	<i>Setophaga magnolia</i>	MAWA	4	1	2	2	1	3	3	0	16	L3
marsh wren	<i>Cistothorus palustris</i>	MAWR	3	2	2	3	3	3	3	0	19	L3
merlin	<i>Falco columbarius</i>	MERL	3	2	1	4	1	4	3	0	18	L3
mourning warbler	<i>Geothlypis philadelphia</i>	MOWA	0	4	2	2	2	4	2	0	16	L3
Nashville warbler	<i>Oreothlypis ruficapilla</i>	NAWA	2	1	2	2	1	5	2	1	16	L3
northern shoveler	<i>Anas clypeata</i>	NSHO	5	1	2	3	2	3	2	0	18	L3
northern waterthrush	<i>Parkesia noveboracensis</i>	NOWA	1	1	2	3	1	5	4	1	18	L3
osprey	<i>Pandion haliaetus</i>	OSPR	2	2	1	3	1	5	2	1	17	L3
pied-billed grebe	<i>Podilymbus podiceps</i>	PBGR	3	2	2	2	1	4	4	0	18	L3
pileated woodpecker	<i>Dryocopus pileatus</i>	PIWO	0	2	2	4	1	3	3	0	15	L3
red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	RHWO	5	4	2	2	1	2	2	0	18	L3
red-necked grebe	<i>Podiceps grisegena</i>	RNGR	4	2	2	3	1	4	3	0	19	L3
ruffed grouse	<i>Bonasa umbellus</i>	RUGR	1	2	2	3	3	5	2	1	19	L3
scarlet tanager	<i>Piranga olivacea</i>	SCTA	0	3	2	4	1	4	3	0	17	L3
sedge wren	<i>Cistothorus platensis</i>	SEWR	4	1	3	3	3	4	1	0	19	L3
sharp-shinned hawk	<i>Accipiter striatus</i>	SSHA	2	2	3	4	1	3	3	0	18	L3
sora	<i>Porzana carolina</i>	SORA	2	1	2	2	3	4	3	0	17	L3

Appendix 2: Fauna Ranks and Scores for TRCA Jurisdiction, 2017.

Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
summer tanager	<i>Piranga rubra</i>	SUTA	5	1	2	3	1	4	2	0	18	L3
vesper sparrow	<i>Pooecetes gramineus</i>	VESP	1	3	2	2	2	5	1	1	17	L3
Virginia rail	<i>Rallus limicola</i>	VIRA	1	2	2	2	3	4	3	0	17	L3
western meadowlark	<i>Sturnella neglecta</i>	WEME	5	4	2	3	1	3	1	0	19	L3
white-throated sparrow	<i>Zonotrichia albicollis</i>	WTSP	3	3	3	2	2	4	1	0	18	L3
wild turkey	<i>Meleagris gallopavo</i>	WITU	0	1	1	4	3	3	4	0	16	L3
winter wren	<i>Troglodytes hiemalis</i>	WIWR	1	1	2	3	2	5	3	1	18	L3
wood thrush	<i>Hylocichla mustelina</i>	WOTH	0	4	2	3	2	4	2	0	17	L3
yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	YBSA	3	1	2	2	1	3	3	0	15	L3
yellow-billed cuckoo	<i>Coccyzus americanus</i>	YBCU	1	4	2	3	1	3	3	0	17	L3
yellow-rumped warbler	<i>Setophaga coronata</i>	YRWA	3	3	2	3	1	4	2	0	18	L3
yellow-throated vireo	<i>Vireo flavifrons</i>	YTVI	3	2	2	3	1	4	1	0	16	L3
American kestrel	<i>Falco sparverius</i>	AMKE	2	3	2	2	1	0	2	0	12	L4
American redstart	<i>Setophaga ruticilla</i>	AMRE	0	3	1	3	1	4	2	0	14	L4
barn swallow	<i>Hirundo rustica</i>	BARS	0	4	2	1	1	1	2	0	11	L4
belted kingfisher	<i>Ceryle alcyon</i>	BEKI	0	3	1	2	1	2	2	0	11	L4
blue-grey gnatcatcher	<i>Poliophtila caerulea</i>	BGGN	0	1	2	3	1	3	1	0	11	L4
brown creeper	<i>Certhia americana</i>	BRCR	0	2	1	3	2	4	2	0	14	L4
Carolina wren	<i>Thryothorus ludovicianus</i>	CARW	3	1	2	1	2	1	2	0	12	L4
chimney swift	<i>Chaetura pelagica</i>	CHSW	1	4	2	1	1	1	1	0	11	L4
common raven	<i>Corvus corax</i>	CORA	1	1	1	2	1	3	4	0	13	L4
common yellowthroat	<i>Geothlypis trichas</i>	COYE	0	4	2	1	2	4	1	0	14	L4
Cooper's hawk	<i>Accipiter cooperii</i>	COHA	0	2	2	4	1	2	3	0	14	L4
eastern bluebird	<i>Sialia sialis</i>	EABL	2	1	1	2	1	2	2	0	11	L4
eastern kingbird	<i>Tyrannus tyrannus</i>	EAKI	0	4	2	2	1	3	1	0	13	L4
eastern screech-owl	<i>Megascops asio</i>	EASO	0	3	2	1	2	3	3	0	14	L4
eastern wood-pewee	<i>Contopus virens</i>	EAWP	0	4	2	2	1	3	1	0	13	L4
field sparrow	<i>Spizella pusilla</i>	FISP	0	4	2	2	1	4	1	0	14	L4
gadwall	<i>Anas strepera</i>	GADW	3	1	2	1	2	3	1	0	13	L4
great-crested flycatcher	<i>Myiarchus crinitus</i>	GCFL	0	2	1	3	1	2	2	0	11	L4
great-horned owl	<i>Bubo virginianus</i>	GHOW	0	2	2	2	2	2	1	0	11	L4
green heron	<i>Butorides virescens</i>	GRHE	0	3	2	2	1	4	2	0	14	L4
grey catbird	<i>Dumetella carolinensis</i>	GRCA	0	3	2	1	1	3	1	0	11	L4
hairy woodpecker	<i>Picoides villosus</i>	HAWO	0	2	2	3	1	2	2	0	12	L4
herring gull	<i>Larus argentatus</i>	HERG	4	2	2	1	1	1	2	0	13	L4
indigo bunting	<i>Passerina cyanea</i>	INBU	0	3	2	1	1	4	2	0	13	L4
killdeer	<i>Charadrius vociferus</i>	KILL	0	4	2	1	2	2	0	0	11	L4
least flycatcher	<i>Empidonax minimus</i>	LEFL	0	4	3	2	1	3	1	0	14	L4

Appendix 2: Fauna Ranks and Scores for TRCA Jurisdiction, 2017.

Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
northern flicker	<i>Colaptes auratus</i>	NOFL	0	4	2	1	1	3	2	0	13	L4
northern mockingbird	<i>Mimus polyglottos</i>	NOMO	0	3	3	1	1	1	1	0	10	L4
northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>	NRWS	0	3	2	1	1	2	3	0	12	L4
peregrine falcon	<i>Falco peregrinus</i>	PEFA	4	2	1	1	1	0	3	0	12	L4
pine siskin	<i>Carduelis pinus</i>	PISI	3	4	1	3	1	1	1	0	14	L4
pine warbler	<i>Setophaga pinus</i>	PIWA	0	1	2	4	1	3	3	0	14	L4
purple finch	<i>Carpodacus purpureus</i>	PUFI	2	4	1	1	1	1	0	0	10	L4
purple martin	<i>Progne subis</i>	PUMA	3	3	1	1	1	1	2	0	12	L4
red-bellied woodpecker	<i>Melanerpes carolinus</i>	RBWO	1	1	1	3	1	2	2	0	11	L4
red-breasted nuthatch	<i>Sitta canadensis</i>	RBNU	0	1	2	3	1	2	1	0	10	L4
red-eyed vireo	<i>Vireo olivaceus</i>	REVI	0	1	2	2	1	3	1	0	10	L4
ruby-throated hummingbird	<i>Archilochus colubris</i>	RTHU	0	2	1	1	1	3	2	0	10	L4
ring-billed gull	<i>Larus delawarensis</i>	RBGU	4	1	2	1	1	1	2	0	12	L4
rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>	RBGR	0	3	2	3	1	3	2	0	14	L4
savannah sparrow	<i>Passerculus sandwichensis</i>	SAVS	0	4	2	1	1	4	1	0	13	L4
spotted sandpiper	<i>Actitis macularia</i>	SPSA	0	3	2	1	2	4	1	0	13	L4
swamp sparrow	<i>Melospiza georgiana</i>	SWSP	0	1	2	1	2	5	1	1	13	L4
tree swallow	<i>Tachycineta bicolor</i>	TRES	0	4	2	1	1	2	2	0	12	L4
white-breasted nuthatch	<i>Sitta carolinensis</i>	WBNU	0	2	2	3	1	2	2	0	12	L4
willow flycatcher	<i>Empidonax traillii</i>	WIFL	0	4	2	1	1	3	1	0	12	L4
wood duck	<i>Aix sponsa</i>	WODU	0	2	2	3	2	3	2	0	14	L4
American Crow	<i>Corvus brachyrhynchos</i>	AMCR	0	1	1	1	1	0	0	0	4	L5
American goldfinch	<i>Carduelis tristis</i>	AMGO	0	3	1	1	1	1	0	0	7	L5
American robin	<i>Turdus migratorius</i>	AMRO	0	1	1	1	1	1	0	0	5	L5
Baltimore oriole	<i>Icterus galbula</i>	BAOR	0	4	2	1	1	1	0	0	9	L5
black-capped chickadee	<i>Parus atricapillus</i>	BCCH	0	1	1	1	1	1	0	0	5	L5
blue jay	<i>Cyanocitta cristata</i>	BLJA	0	3	1	1	1	1	0	0	7	L5
brown-headed cowbird	<i>Molothrus ater</i>	BHCO	0	3	1	1	1	1	0	0	7	L5
Canada goose	<i>Branta canadensis</i>	CANG	0	0	1	1	2	0	1	0	5	L5
cedar waxwing	<i>Bombycilla cedrorum</i>	CEDW	0	2	1	1	1	1	0	0	6	L5
chipping sparrow	<i>Spizella passerina</i>	CHSP	0	3	2	1	1	2	0	0	9	L5
cliff swallow	<i>Petrochelidon pyrrhonota</i>	CLSW	0	1	1	1	1	1	2	0	7	L5
common grackle	<i>Quiscalus quiscula</i>	COGR	0	4	1	1	1	1	0	0	8	L5
downy woodpecker	<i>Picoides pubescens</i>	DOWO	0	1	1	1	1	1	1	0	6	L5
eastern phoebe	<i>Sayornis phoebe</i>	EAPH	0	1	2	1	1	1	2	0	8	L5
house wren	<i>Troglodytes aedon</i>	HOWR	0	1	2	1	2	1	1	0	8	L5
mallard	<i>Anas platyrhynchos</i>	MALL	0	1	1	1	2	1	0	0	6	L5
mourning dove	<i>Zenaida macroura</i>	MODO	0	3	1	1	1	0	0	0	6	L5

Appendix 2: Fauna Ranks and Scores for TRCA Jurisdiction, 2017.

Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
northern cardinal	<i>Cardinalis cardinalis</i>	NOCA	0	1	1	1	1	2	1	0	7	L5
orchard oriole	<i>Icterus spurius</i>	OROR	0	3	1	1	1	1	0	0	7	L5
red-tailed hawk	<i>Buteo jamaicensis</i>	RTHA	0	2	1	2	1	1	1	0	8	L5
red-winged blackbird	<i>Agelaius phoeniceus</i>	RWBL	0	4	1	1	1	1	0	0	8	L5
song sparrow	<i>Melospiza melodia</i>	SOSP	0	3	1	1	1	2	0	0	8	L5
turkey vulture	<i>Cathartes aura</i>	TUVU	0	1	1	1	1	1	2	0	7	L5
warbling vireo	<i>Vireo gilvus</i>	WAVI	0	1	1	1	1	2	1	0	7	L5
yellow warbler	<i>Setophaga petechia</i>	YEWA	0	3	2	1	1	2	0	0	9	L5
black tern	<i>Chlidonias niger</i>	BLTE		3	5	3	1	4	4	0	25	LX
cerulean warbler	<i>Setophaga cerulea</i>	CERW		3	3	3	1	3	3	0	21	LX
great black-backed gull	<i>Larus marinus</i>	GBBG		2	2	1	1	1	2	0	14	LX
Henslow's sparrow	<i>Ammodramus henslowii</i>	HESP		4	2	3	2	5	3	1	25	LX
loggerhead shrike	<i>Lanius ludovicianus</i>	LOSH		4	2	3	4	3	1	0	22	LX
northern saw-whet owl	<i>Aegolius acadicus</i>	NSWO		2	2	4	2	3	2	0	20	LX
prothonotary warbler	<i>Protonotaria citrea</i>	PROW		4	2	3	1	4	4	0	23	LX
short-eared owl	<i>Asio flammeus</i>	SEOW		3	2	3	2	2	1	0	18	LX
white-winged crossbill	<i>Loxia leucoptera</i>	WWCR		2	2	4	1	2	2	0	18	LX
Wilson's snipe	<i>Gallinago delicata</i>	WISN		1	3	2	2	5	1	1	20	LX
worm-eating warbler	<i>Helminthos vermivorus</i>	WEWA		2	2	4	2	5	4	1	25	LX
yellow-breasted chat	<i>Icteria virens</i>	YBCH		3	2	3	2	4	2	0	21	LX
European starling	<i>Sturnus vulgaris</i>	EUST	0									L+
house finch	<i>Carpodacus mexicanus</i>	HOFI	0									L+
house sparrow	<i>Passer domesticus</i>	HOSP	0									L+
mute swan	<i>Cygnus olor</i>	MUSW	3									L+
ring-necked pheasant	<i>Phasianus colchicus</i>	RNEP	3									L+
rock dove	<i>Columba livia</i>	ROPI	0									L+
trumpeter swan	<i>Cygnus buccinator</i>	TRUS	2									L+
Herpetofauna												
bullfrog	<i>Lithobates catesbeiana</i>	BUFR	3	3	2	2	4	5	2	1	22	L2
grey treefrog	<i>Hyla versicolor</i>	TGTF	0	3	2	3	4	5	2	1	20	L2
mink frog	<i>Lithobates septentrionalis</i>	MIFR	5	2	2	2	3	5	1	1	21	L2
spring peeper	<i>Pseudacris crucifer crucifer</i>	SPPE	1	2	2	3	4	5	3	1	21	L2
pickerel frog	<i>Lithobates palustris</i>	PIFR	4	3	2	1	3	5	2	1	21	L2
western chorus frog	<i>Pseudacris triseriata</i>	MICF	3	3	2	2	4	5	3	1	23	L2
wood frog	<i>Lithobates sylvatica</i>	WOFR	0	2	2	3	4	5	3	1	20	L2
eastern red-backed salamander	<i>Plethodon cinereus</i>	RBSA	0	2	1	1	4	4	3	0	15	L3

Appendix 2: Fauna Ranks and Scores for TRCA Jurisdiction, 2017.

Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
northern leopard frog	<i>Lithobates pipiens</i>	LEFR	0	3	2	1	4	5	2	1	18	L3
American toad	<i>Anaxyrus americanus</i>	AMTO	0	3	2	1	4	4	0	0	14	L4
green frog	<i>Lithobates clamitans</i>	GRFR	0	2	2	1	3	4	1	0	13	L4
Incidental Species: species that are reported on as incidental to the TRCA protocol.												
Mammals												
river otter	<i>Lutra canadensis</i>	RIOT	4	2	2	5	3	5	2	2	25	L1
fisher	<i>Martes pennanti</i>	FISH	4	1	2	5	3	4	3	1	23	L2
northern flying squirrel	<i>Glaucomys sabrinus</i>	NFSQ	4	2	2	3	3	4	3	0	21	L2
porcupine	<i>Erethizon dorsatum</i>	PORC	3	2	2	4	4	3	3	0	21	L2
woodland jumping mouse	<i>Napaeozapus insignis</i>	WJMO	4	2	2	3	3	5	2	1	22	L2
common shrew	<i>Sorex cinereus</i>	COSH	4	2	2	1	3	4	1	0	17	L3
ermine	<i>Mustela erminea</i>	ERMI	4	2	2	3	3	3	1	0	18	L3
hairy-tailed mole	<i>Parascalops breweri</i>	HTMO	3	2	2	1	4	4	1	0	17	L3
meadow jumping mouse	<i>Zapus hudsonius</i>	MJMO	3	2	2	2	3	3	2	0	17	L3
northern short-tailed shrew	<i>Blarina brevicauda</i>	NSTS	3	2	2	1	2	4	2	0	16	L3
star-nosed mole	<i>Condylura cristata</i>	SNMO	3	2	2	1	4	4	1	0	17	L3
beaver	<i>Castor canadensis</i>	BEAV	1	2	2	2	3	3	1	0	14	L4
big brown bat	<i>Eptesicus fuscus</i>	BBBA	4	2	2	1	1	2	1	0	13	L4
deer mouse	<i>Peromyscus maniculatus</i>	DEMO	3	2	1	1	2	1	0	0	10	L4
eastern chipmunk	<i>Tamias striatus</i>	EACH	0	2	1	2	3	3	1	0	12	L4
eastern cottontail	<i>Sylvilagus floridanus</i>	EACO	0	2	2	1	3	2	1	0	11	L4
little brown bat	<i>Myotis lucifugus</i>	LBBA	4	2	2	1	1	2	2	0	14	L4
meadow vole	<i>Microtus pennsylvanicus</i>	MEVO	1	2	2	1	2	2	1	0	11	L4
mink	<i>Mustela vison</i>	MINK	1	2	2	3	3	3	0	0	14	L4
muskrat	<i>Ondatra zibethicus</i>	MUSK	0	2	2	1	3	3	1	0	12	L4
red fox	<i>Vulpes vulpes</i>	REFO	1	2	2	1	3	1	0	0	10	L4
red squirrel	<i>Tamiasciurus hudsonicus</i>	RESQ	0	2	1	1	3	2	1	0	10	L4
Virginia opossum	<i>Didelphis virginiana</i>	VIOP	2	2	2	1	3	1	1	0	12	L4
white-footed mouse	<i>Peromyscus leucopus</i>	WFMO	4	2	2	1	2	1	0	0	12	L4
white-tailed deer	<i>Odocoileus virginianus</i>	WTDE	0	2	2	3	2	1	2	0	12	L4
coyote	<i>Canis latrans</i>	COYO	0	2	2	1	3	2	0	0	10	L4
grey squirrel	<i>Sciurus carolinensis</i>	GRSQ	0	2	1	1	3	0	0	0	7	L5
raccoon	<i>Procyon lotor</i>	RACC	0	2	1	1	3	0	1	0	8	L5
striped skunk	<i>Mephitis mephitis</i>	STSK	0	2	2	1	3	0	0	0	8	L5
woodchuck	<i>Marmota monax</i>	WOOD	0	2	2	1	3	0	0	0	8	L5
hoary bat	<i>Lasiurus cinereus</i>	HOBA	5	2	2	1	1	3	1	0	15	LX

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Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
long-tailed weasel	<i>Mustela frenata</i>	LTWE	5	2	2	3	3	3	1	0	19	LX
red bat	<i>Lasiurus borealis</i>	REBA	5	2	2	1	1	3	2	0	16	LX
snowshoe hare	<i>Lepus americanus</i>	SNHA	5	2	2	3	3	3	1	0	19	LX
southern flying squirrel	<i>Glaucomys volans</i>	SFSQ	5	3	3	2	3	4	3	0	23	LX
domestic cat	<i>Felis catus</i>	DOCA	3									L+
European hare	<i>Lepus europaeus</i>	EUHA	5									L+
house mouse	<i>Mus musculus</i>	HOMO	4									L+
Norway rat	<i>Rattus norvegicus</i>	NORA	4									L+
Herpetofauna												
Blanding's turtle	<i>Emydoidea blandingii</i>	BLTU	4	3	2	3	5	5	2	2	26	L1
Jefferson salamander complex	<i>Ambystoma jeffersonianum</i> complex	JESA	4	3	2	3	5	5	5	3	30	L1
spotted salamander	<i>Ambystoma maculatum</i>	YSSA	2	3	2	3	5	5	4	2	26	L1
common map turtle	<i>Graptemys geographica</i>	MATU	4	3	1	2	4	5	2	1	22	L2
eastern newt	<i>Notophthalmus viridescens viridescens</i>	EANE	2	2	1	3	4	5	3	1	21	L2
smooth greensnake	<i>Opheodrys vernalis</i>	SGSN	4	2	2	1	4	5	2	1	21	L2
mudpuppy	<i>Necturus maculosus</i>	MUDP	5	2	2	2	5	3	2	1	22	L2
common snapping turtle	<i>Chelydra serpentina serpentina</i>	SNTU	0	3	1	1	5	5	2	2	19	L3
milksnake	<i>Lampropeltis triangulum triangulum</i>	MISN	2	3	1	2	4	3	1	0	16	L3
midland painted turtle	<i>Chrysemys picta marginata</i>	MPTU	0	2	2	1	5	4	1	1	16	L3
red-bellied snake	<i>Storeria occipitomaculata occipitomacu</i>	RBSN	2	2	1	2	3	5	1	1	17	L3
Dekay's brownsnake	<i>Storeria dekayi</i>	BRSN	1	2	2	1	3	4	0	0	13	L4
eastern gartersnake	<i>Thamnophis sirtalis sirtalis</i>	EAGA	0	2	1	1	3	3	0	0	10	L4
common musk turtle	<i>Sternotherus odoratus</i>	STIN	5	3		2	4	4	2	0		LX
eastern ribbonsnake	<i>Thamnophis sauritus</i>	RISN	5	2		2	4	5	2	1		LX
blue-spotted salamander	<i>Ambystoma laterale</i>	BSSA	5	3		3	5	5	4	2		LX
northern watersnake	<i>Nerodia sipedon sipedon</i>	NOWS	5	2		2	4	5	2	1		LX
four-toed salamander	<i>Hemidactylium scutatum</i>	FTSA	5	3		1	5	5	4	2		LX
northern ring-necked snake	<i>Diadophis punctatus</i>	RNSN	5	3		2	4	5	3	1		LX
red-eared slider	<i>Trachemys scripta elegans</i>	SLID	3									L+

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Common Name	Scientific Name	Code	LO	PTn	PTt	AS	PIS	StD	HD	+	TS	L-Rank
Invertebrates												
"chimney" crayfish	<i>Fallicambarus fodiens</i>	CHCR	2	3	2	1	4	5	2	1	20	L2

LEGEND

LO = local occurrence STD = sensitivity to development
 PTn = National population trend HD = habitat dependence
 PTt = TRCA population trend + = additional points
 AS = area sensitivity TS = total score
 PIS = Patch Isolation Sensitivity L-rank = TRCA Rank, February, 2016 - based on data up to 2015 inclusive

L1 = Species of Regional Conservation Concern, regionally scarce due to either accidental occurrence or extreme sensitivity to human impacts
 L2 = Species of Regional Conservation Concern, somewhat more abundant and generally slightly less sensitive than L1 species
 L3 = Species of Regional Conservation Concern, generally less sensitive and more abundant than L1 and L2 ranked species
 L4 = Species of Urban Concern; occur throughout the region but could show declines if urban impacts are not mitigated effectively
 L5 = species that are considered secure throughout the region
 L+ = introduced species, not native to the Toronto region
 LX = extirpated species; species not recorded in the region in the past 10 years