Cottonwood Flats Monitoring Project

2021 Activity Report & Assessment Data



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Reference as: TFN 2021 CFMP Activity Report

Report Designed By: Off to Market, Inc. http://offtomarket.ca

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INTRODUCTION



PROJECT OVERVIEW

The Cottonwood Flats Monitoring Project (CFMP) is a partnership between the City of Toronto's Natural Environment and Community Programs (NECP) section of Urban Forestry and the Toronto Field Naturalists (TFN). Founded in 2017, its primary goal is to create and curate an inventory of animal and vegetation biodiversity at Cottonwood Flats (see "Study Area") which, over time, will be used to assess overall trends in species richness and abundance. A secondary objective for the project is to facilitate community engagement and outreach.

STUDY AREA

Cottonwood Flats is an approximately 4-hectare parcel of floodplain, elevated by an anthropogenic fill base, that is located on a post-industrial site along the eastern banks of the Lower Don River near Crothers Woods. The site was once home to a rockwool factory, was used as a disposal site for concrete debris, and once served as a primary site for dumping snow plowed from city streets.

Between 2009 and 2014, the City of Toronto, TRCA, Task Force to Bring Back the Don, and Schollen and Company created and executed a restoration plan intended primarily to provide habitat for groundnesting birds. A key feature of this plan was an approximately one acre songbird meadow, fully enclosed by permanent fencing, meant to help secure the area from trampling, off-leash dogs, and other potential threats.

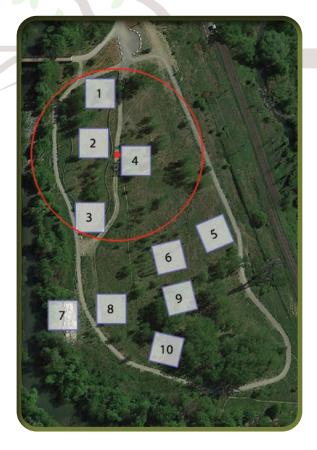
In 2020 the City of Toronto completed construction on Phase 2 of improvements at Cottonwood Flats, including the creation of an extensive ephemeral wetland complex designed to improve habitat diversity and ecological services on the site. The project also included a wetland lookout area, and a new entrance feature which aims to improve access, wayfinding and visitor experience.



METHODOLOGY & PROTOCOLS

Cottonwood Flats is too large an area to monitor and assess in its entirety. Instead, ten 20m x 20m permanent plots have been defined that are the focus of monitoring and assessment efforts. The corners of each plot have been demarcated by an approximately 1.2m t-bar in the north-eastern-most corner (installed on Sat Apr 3, 2021) and a pin flag in each of the remaining corners to aid on-site discovery. The exception is Plot 4 where remnant underground debris prevented placement of a t-bar, so a pin flag was used instead. Plot locations were selected based on existing natural features, human traffic patterns, and the post-industrial legacy of the site. Site activities abide by specific protocols developed by TFN in consultation with NECP, and modelled on similar protocols used by organizations like TRCA and EMAN so as to maximize compatibility with other standard data collection methods.

Annually, volunteers conduct five site Monitoring Sessions, the purpose of which is to identify animal species (primarily birds), and flora in bloom or seed. Each session begins with a ten minute "Bird Circle" observation, during which one to three stationary observers log all animal activity within a 50m circle encompassing plots 1,2,3, & 4, and the entirety of the fenced-in Songbird Meadow. Following this, one to four volunteers devote a minimum of five minutes of continuous observation time to logging all animal activity in each plot. An additional observer visits all plots independently to document flora in bloom or seed.



Further, one Vegetation Assessment is conducted each year, during which the emphasis is on flora identification. During these assessments there is no Bird Circle observation period, but at least one volunteer continues to devote five minutes of continuous observation time to each plot for the purpose of logging animal activity. Meanwhile, two to five volunteers devote several hours each to flora identification, working alone or in co-operation with one another, as proves most effective.

During all six sessions and assessments, a volunteer photographer is responsible for documenting interesting discoveries, general activities, and attending to routine photo monitoring as prescribed by the City of Toronto.

Concurrently, a CFMP Site Ambassador, situated by the trail that connects the Lower Don Recreational Trail to nearby Sun Valley/Crothers Woods, engages with any members of the public curious about project activities. The Site Ambassador answers questions, distributes TFN and City of Toronto brochures, and keeps records on human visitation and use of Cottonwood Flats.

SUMMARY OF RESULTS

IMPACT OF COVID-19

Restrictions imposed in response the COVID-19 pandemic greatly limited CFMP activities in 2021. Of the six events scheduled, only four were able to be held, all with smaller volunteer attendance than in previous years.

FLORA SPECIES AT COTTONWOOD FLATS

The study area is dominated by Exotic Cool-season Grass Graminoid Meadow (CUM1-b) and Exotic Forb Meadow (CUM1-c). A portion of the site is successional semi-woody habitat, which includes the riparian zone along the Don River. The developing vegetation structure continues to indicate it is headed towards a vegetation community typical of the Lower Don Valley - Fresh-Moist Cottonwood Tall Treed Woodland (CUW1-A4).

Plot observations identified a total of 92 species of vascular plants during the 2021 season (see Appendix A). These include 30 native species (both naturally-occurring and planted) and 62 exotic species (67.39%). 3 additional plants remain identified only to the level of Genus, and 11 species catalogued (1 native, 10 exotic) are not present in *Beechwood Wetland and Cottonwood Flats Terrestrial Biological Inventory and Assessment* (TRCA, 2010). These totals differ from those described in the 2020 report thanks to the following:

SCIENTIFIC NAME	COMMON NAME	NATIVITY	CHANGE
Ageratina altissima	White snakeroot	Native	No longer present
Barbarea vulgaris	Yellow rocketcress	Non-Native	Now present
Campanula rapunculoides	Creeping bellflower	Non-Native	No longer present
Elymus riparius	Riverbank wild rye	Native	No longer present
Elymus virginicus	Virginia wild rye	Native	No longer present
Erigeron canadensis	Horseweed	Native	No longer present
Eryngium planum	Sea holly	Non-Native	Returned to inventory (mistakenly removed in 2020 report)
Erysimum hieraciifolium	European wallflower	Non-Native	No longer present
Euphorbia vermiculata	Hairy sandmat	Native	No longer present
Hesperis matronalis	Dame's rocket	Non-Native	No longer present
Juncus tenuis	Slender rush	Native	No longer present
Lactuca serriola	Prickly lettuce	Non-Native	No longer present
Lepidium campestre	Field pepperwort	Non-Native	No longer present
Lycopus europaeus	European bugleweed	Non-Native	No longer present
Lythrum salicaria	Purple loosestrife	Non-Native	Added back (new occurance)
Pinus austrian	Austrian pine	Non-Native	No longer present
Poa nemoralis	Wood bluegrass	Non-Native	No longer present
Polygonum persicaria	Lady's-thumb	Non-Native	No longer present
Potentilla arguta	Tall cinquefoil	Native	Now present
Rubus odoratus	Purple-flowering raspberry	Native	Now present
Schizachyrium scoparium	Little bluestem	Native	Now present
Solidago nemoralis	Gray goldenrod	Native	Now present
Symphyotrichum lanceolatum	Panicled aster	Native	Now present
Thlaspi arvense	Field penny-cress	Non-Native	No longer present

This net decline in species represents the largest annual net loss in flora diversity since the inception of CFMP in 2017. While this loss returns the overall number of species identified in CFMP plots to 2017 levels, it is interesting to note that the number of native species present in the 2021 inventory is 6.91% higher than it was in 2017.

It is equally interesting to note that 11 of the 16 species lost in 2021 were exclusive only to Plot 7, which itself saw the loss of 19 species overall this year. While many of these species were known to be growing in areas of the plot now dominated by Japanese Knotweed (*Fallopia japonica*), it is suspected that the continued increase in human activity within Plot 7 that was identified in 2020 is likely also a notable influence.

Eastern cottonwoods (*Populus deltoides*) and green ash (*Fraxinus pennsylvanica*) remain the dominant native tree cover in our plots.

Damage from poplar vagabond aphids (*Mordwilkoja vagabunda*) was again evident on Eastern cottonwoods this year (Veg2, Jason Ramsay-Brown).

Green ash in plots 3 & 8 show signs of ongoing assault by emerald ash borer (*Agrilus planipennis*), but no live adult specimen of this invasive insect have been spotted since 2019 (Veg2, Jason Ramsay-Brown).

Symptoms of leaf spot fungus (*Mycosphaerella* spp.) were also noted on green ash in these plots (Veg2, Stephen Smith).



Exotic tree health & propagation continued to advance. Vigorous growth of existing European buckthorn (*Rhamnus cathartica*) specimens was evident in all but one previously-invaded plots (Plot 4) and (with the discovery of a single seedling) Plot 8 is now host to this invasive (Veg2, Stephen Smith). Black locust (*Robinia pseudoacacia*) in Plot 4 exhibited a notable increase in both number of stems & overall plot coverage this year (Veg2, Nancy Dengler)

At the herbaceous layer, tall goldenrod (*Solidago altissima*) remains the dominant native and enjoyed a "good year", especially in Plots 2, 5 & 6 (Veg2, Nancy Dengler). Conversely, it appeared to be a bad year for resident asters (Veg2, Stephen Smith), with the disappearance of panicled aster (*Symphyotrichum lanceolatum*) from Plot 7, and a notable decline of both heath aster (*Symphyotrichum ericoides*) and New England aster (*Symphyotrichum novae-angliae*) site-wide.

Tansy (*Tanacetum vulgare*) remains the most populous herbaceous invasive across the Flats in its entirety, but dog-strangling vine (*Vincetoxicum rossicum*) is now at least equal (in aggregate) across CFMP plots specifically. DSV population continues to expand rapidly in most plots, and lost territory in none. Spread of DSV in plots 2 & 3 were noted as particularly "dramatic" both in terms of mature speciments and overall number of visible sprouts and seedlings (Veg 2, Nancy Dengler).



As alluded to above, extant patches of Japanese knotweed (*Fallopia japonica*) have expanded, and new patches have emerged, in Plot 7. More distressing, however, is that the colony has now escaped Plot 7 and is spreading rapidly along the riverbank north of the plot.

Also of interest, the almost perfectly-circular colony of crownvetch (Securigera varia) in Plot 2 showed notable fragmentation this year, resulting in some modest decline in overall coverage.

SPECIAL NOTE: Starting mid-August 2021 and extending to end of November, 2021, contractors with Forest and Natural Area Management (City of Toronto, Urban Forestry) tackled herbicidal treatment of several invasive species at Cottonwood Flats. This included dog-strangling vine (Vincetoxicum rossicum), European buckthorn (Rhamnus cathartica), tree of heaven (Ailanthus altissima), and Manitoba maple (Acer negundo). The full impact of these treatments could not be effectively gauged by CFMP volunteers in our final session of 2021, but will be evaluated during our 2022 monitoring & assessment activities.

FAUNA SPECIES AT COTTONWOOD FLATS

14 species of birds were cataloged during the 2021 season, including 4 species not recorded in previous years: Eastern bluebird (*Sialia sialis*), Ring-billed gull (*Larus delawarensis*), grey catbird (*Dumetella carolinensis*), and kinglets (*Regulus* spp., which could not be identified to the species level due to location). American robins (*Turdus migratorius*) were the most often sighted birds, followed very closely by American goldfinch (*Spinus tristis*) who enjoyed an outstanding year it would seem. Shockingly, only a single red-winged blackbird (*Agelaius phoeniceus*) was observed visiting the CFMP bird circle area and plots this year.

Only one nest was discovered in our plots, believed to belong to song sparrows (Melospiza melodia) and found in Plot 3 (MS5, Sabrina Adamski, Lillian Natalizio, Charles Bruce-Thompson). However, volunteers heard at least one very young robin chirping in Plot 10, but the nest could not be located (MS3, Anne Powell). Further, the presence of a "very persistant" male yellow warbler (Setophaga petechia) in Plot 10 suggested a nest might be nearby (MS3, Charles Bruce-Thompson). A mature robin with a young robin were spotted in Plot 8 (MS3, Anne Powell).

Only 4 species of butterflies were documented this year, with cabbage white (*Pieris rapae*) continuing as the most often sighted butterfly. Dun Skipper butterflies (*Euphyes vestris*) were observed for the first time (Veg2, Nancy Dengler).



No mammals were sighted during events this year, and indirect evidence of mammal visitation (eg: deer beds, rabbit browsing, etc) was notably diminished compared to previous years. No obvious signs of wildlife having over-wintered in the Study Area were discovered during our pre-season plot inspection and maintenance visit (April 18, Jason Ramsay-Brown, Charles Bruce-Thompson).

No amphibian or reptiles were sighted in our plots this year and routine observations of the Don River (Plot 7) captured no data. However, the recently installed wetland cells at the southern end of the Flats did produce many interesting sightings over the year, including frequent visitation by midland painted turtles (*Chrysemys picta marginata*)

HUMAN USE AT COTTONWOOD FLATS



Cottonwood Flats continued to experience heavy human visitation this year, peaking with 142 visitors on foot and an additional 29 on bikes over a two-hour period at our Vegetation Assessment on July 25th. Visitation by dogs was also elevated this year, with on-leash dogs consistently outnumbering those off-leash by a trivial amount.

For the second year in a row, the focal point of human impact at the Flats was Plot 7. The unauthorized painting of the slabs which began in fall of 2020 has evidently continued as additional slabs are now painted. Graffiti has since been added on top of the paint job.

2022 RECOMMENDATIONS

PROTOCOL ADJUSTMENTS

The following adjustments/enhancements to CFMP protocols are expected to be implemented effective 2022, in order to help improve the quality of collected data and make better use of volunteer time:

- Flora observations will be supported by a new data collection sheet to more explicitly identify when attempts were made to relocate previously-identified species, and to expedite the capture of lifecycle observations.
- TFN & City to discuss potentially discontinuing Plot 10 as its boundaries are difficult for most observers to visualize, frequently leading to observations that need to be validated/verified in subsequent sessions.
- Installation of salamander boards will be deferred until 2023 season.

MONITORING ACTIVITIES

TFN intends to include the following activities during 2022 Monitoring Sessions and/or Vegetation Assessments.

- Identify exact species for flora identified only to the level of Genus in this report
- Increase fidelity of flora observations marked as ND, SD or <10 plants in this report

COMMUNITY ENGAGEMENT

No new recommendations.



RESTORATION & STEWARDSHIP

Under the current ecological trajectory, we anticipate ongoing invasion of the meadow both by exotic/invasive species and woody natives which, without strategic management of these influences, will see the Flats continue to transition to the more typical urban vegetation community found throughout the Don Valley.

The recent herbicidal treatments of herbaceous & woody invasive flora completed by contractors with Forest and Natural Area Management (City of Toronto, Urban Forestry) was a commendable intervention in protecting Cottonwood Flats from these damaging influences. By way of the following recommendations, TFN strongly encourages continued interventions meant to reduce invasive species, further the expansion and diversity of native species, and return the Study Area to at least the same ratio of meadow to woodland as was present in 2017:

- Herbicidal treatments targeting the same species as in 2021 should be repeated in 2022
- Additional interventions should be applied, specifically meant to target crownvetch (Securigera varia), Japanese knotweed (Fallopia japonica),
 Asian bittersweet (Celastrus orbiculatus), and tansy (Tanacetum vulgare)
- Reduce or at least limit the spread of native trees and/or rhizomatous, grove-producing species in or near meadowland to help preserve that habitat. Of most immediate concern here is staghorn sumac (Rhus typhina), sandbar willow (Salix exigua), and black walnut (Juglans nigra).
- Follow-up invasive removal activities with casting of seeds native to Toronto and obtained from verified local seed sources where possible.
- · Decommission existing firepits
- Encourage increased visitation from by-law officers to help reduce routine damage by off-leash dogs and inappropriate human use.



Finally, to accelerate the pace of these interventions, and ensure their benefits are sustained long-term, TFN strongly urges that volunteer stewards be permitted to routinely work in the Study Area, either under the aegis of the City of Toronto's Community Stewardship Program, or by way of the Toronto Nature Stewards Pilot Program. TFN would, of course, be extremely interested in participating in any such volunteer stewardship at the Flats.



APPENDICES

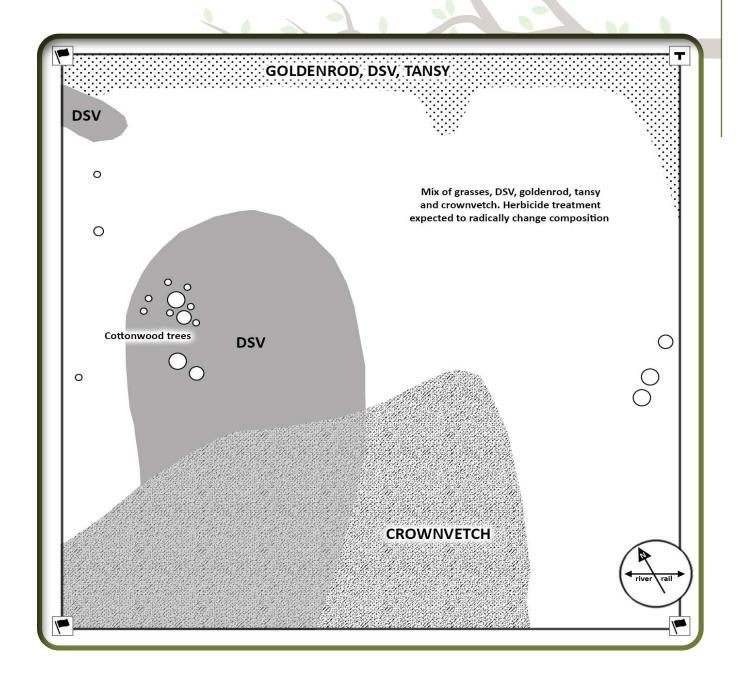
APPENDIX A: COMPILED FLORA DATA

Data presented in this section has been compiled from all flora logs submitted during the 2021 season. Where coverabundance estimates differed, those recorded during the Vegetation Assessment in July were considered authoritative.

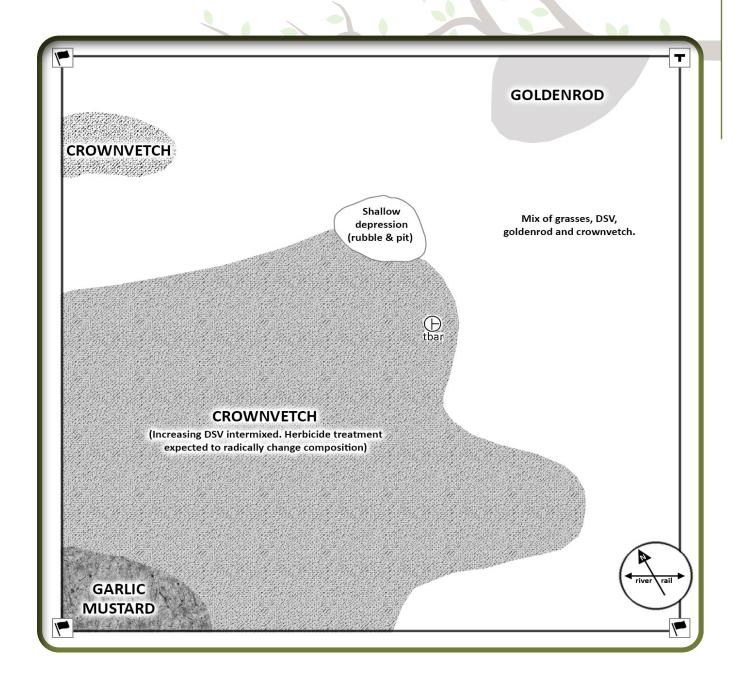
LEGEND	
DG	Dominant groundcover with no precise estimate of population or distribution
ND	Species noted, but no population or distribution data recorded
SD	Sparsely distributed throughout plot, making exact estimate impractical but certainly less than 3%
Blue Text	Exotic species
Red Text	Species identified to level of Genus only.
Green Text	Species does not appear in Beechwood Wetland and Cottonwood Flats Terrestrial Biological Inventory and Assessment (TRCA, 2010).
**	Not recorded in previous year
\uparrow	Population increase from previous year
\downarrow	Population decrease from previous year

MAP LEGEND

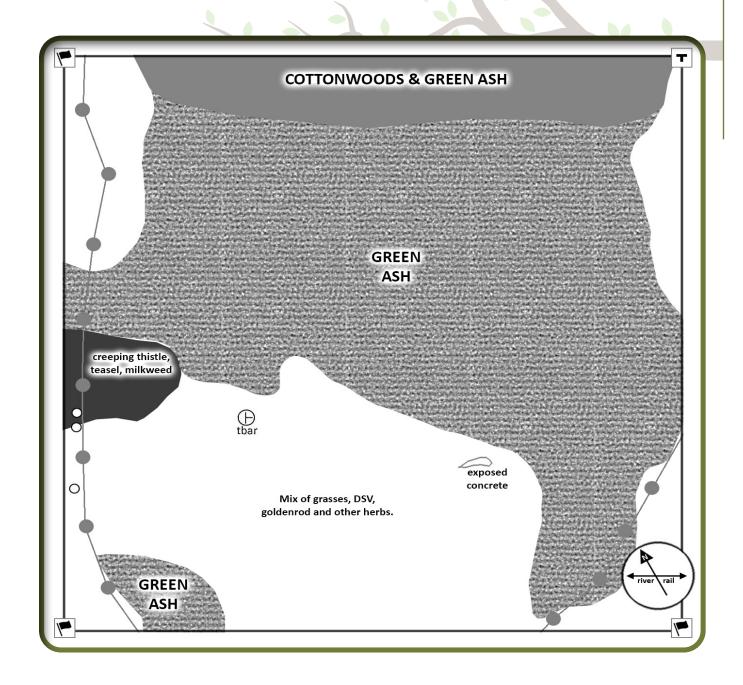
Maps provided in this report were created in 2017 and should not be considered an accurate reflection of current plant communities. Maps will be revised during 2021 season and new versions included in next year's report.



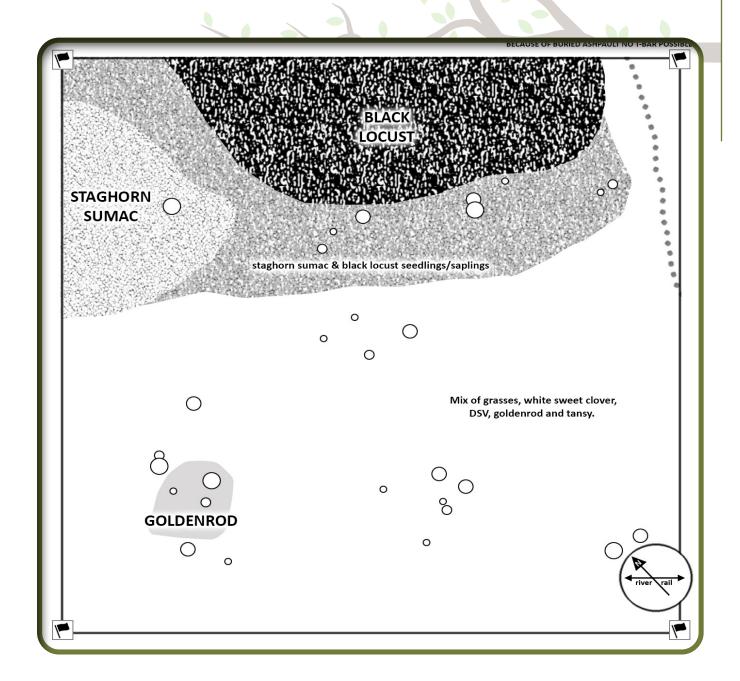
SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Acer negundo	Manitoba Maple	2 saplings	
Achillea millefolium	Common yarrow	SD	Flowering: Veg2, MS5
Agrostis gigantea	Redtop grass	SD	
Ambrosia artemisiifolia	Ragweed	NONE↓	
Cichorium intybus	Chicory	NONE↓	Flowering: Veg2, MS5
Dactylis glomerata	Orchard grass	SD	Flowering: Veg2
Daucus carota	Queen Anne's Lace	SD	Flowering: Veg2, MS5
Echium vulgare	Viper's bugloss	1 plant↓	Flowering: MS3, Veg2, MS5
Elymus repens	Quack grass	SD	
Erigeron strigosus	Rough fleabane	1.00%	Flowering: Veg2, MS5;
Erysimum hieraciifolium	European wallflower	NONE↓	
Festuca rubra	Red fescue	SD	Fruiting: Veg2
Fraxinus pennsylvanica	Green ash	2 trees	Fruiting: Veg2
Hypericum perforatum	St. John's wort	NONE↓	Flowering: Veg2
Juglans nigra	Black walnut	NONE↓	
Juniperus virginiana	Eastern red cedar	1 sapling**	
Linaria vulgaris	Common toadflax (butter-and-eggs)	SD	Flowering: Veg2
Lolium perenne	Perennial rye	SD	Flowering: Veg2
Medicago Iupulina	Black medick	SD	Flowering: Veg2
Melilotus albus	White sweet clover	SD	Flowering: Veg2, MS5
Morus alba	White mulberry	2 trees	
Oenothera biennis	Common evening primrose	NONE↓	Flowering: Veg2
Poa compressa	Flat-stemmed blue grass	SD	Fruiting: Veg2
Poa pratensis	Kentucky bluegrass	SD	Seeding: Veg2, MS5
Populus deltoides	Eastern cottonwood	40.00%	Seeding: MS3
Potentilla recta	Sulphur cinquefoil	1 plant↓	Flowering: Veg2; Seeding: MS5
Rhamnus cathartica	European buckthorn	3 saplings↑	
Rhus typhina	Staghorn sumac	2 plants	Fruiting: Veg2, MS5
Securigera varia	Crownvetch	20.00%	Flowering: Veg 2, MS5
Solidago altissima	Tall goldenrod	10.00%	Flowering: MS5
Symphyotrichum novae-angliae	New England aster	NONE↓	
Tanacetum vulgare	Tansy	15%↓	Flowering: Veg2, MS5; Seeding: M
Taraxacum officinale	Common dandelion	NONE↓	
Ulmus pumila	Siberian elm	2 saplings↓	
Verbascum thapsus	Common mullein	NONE↓	Flowering: Veg2
Vicia cracca	Cow vetch	4 plants↑	Flowering: Veg2
Vincetoxicum rossicum	Dog-strangling vine	25.00%	Flowering: Veg2, MS5; Seeding: Veg2, MS5
Vitis riparia	Riverbank grape	SD	



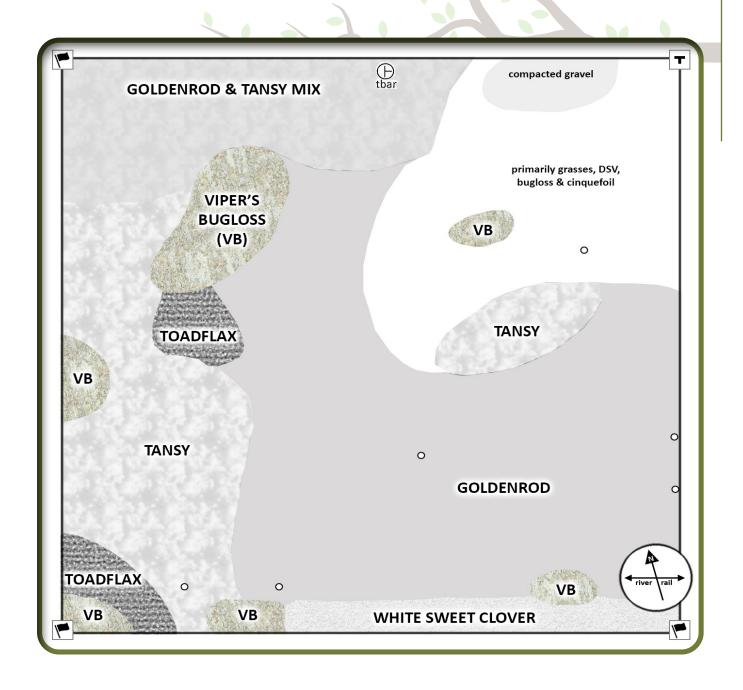
SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Achillea millefolium	Common yarrow	SD	Flowering: Veg2, MS5
Agrostis gigantea	Redtop grass	SD	
Alliaria petiolata	Garlic mustard	10 plants	Flowering: Veg2
Asclepias syriaca	Common milkweed	15 plants↑	Fruiting: Veg2, MS5
Cirsium arvense	Creeping thistle	5%↓	Flowering: Veg2, MS5
Elymus repens	Quack grass	SD	
Festuca rubra	Red fescue	30%	Fruiting: Veg2
Hypericum perforatum	St. John's wort	4 plants	Flowering: Veg2
Linaria vulgaris	Common toadflax (butter-and-eggs)	1 plant**	Flowering: Veg2
Lolium perenne	Perennial rye	SD	Flowering: Veg2
Lotus corniculatus	Birdsfoot trefoil	<1%	Flowering: Veg2, MS5
Lythrum salicaria	Purple loosestrife	1 plant **	
Medicago lupulina	Black medick	1 plant **	Flowering: Veg2
Oenothera biennis	Common evening primrose	1 plant	Flowering: Veg2
Phalaris arundinacea	Reed canary grass	<1%↑	
Poa pratensis	Kentucky bluegrass	SD↓	Seeding: Veg2, MS5
Populus deltoides	Eastern cottonwood	6.50%	Seeding: MS3
Rhamnus cathartica	European buckthorn	1 sapling	
Securigera varia	Crownvetch	50%↓	Flowering: Veg 2, MS5
Solidago altissima	Tall goldenrod	20%↑	Flowering: MS5
Symphyotrichum ericoides	Heath aster	6 stems	
Symphyotrichum novae-angliae	New England aster	5 stems↓	
Tanacetum vulgare	Tansy	<1%**	Flowering: Veg2, MS5; Seeding: MS5
Vincetoxicum rossicum	Dog-strangling vine	15%↑	Flowering: Veg2, MS5; Seeding: Veg2, MS5



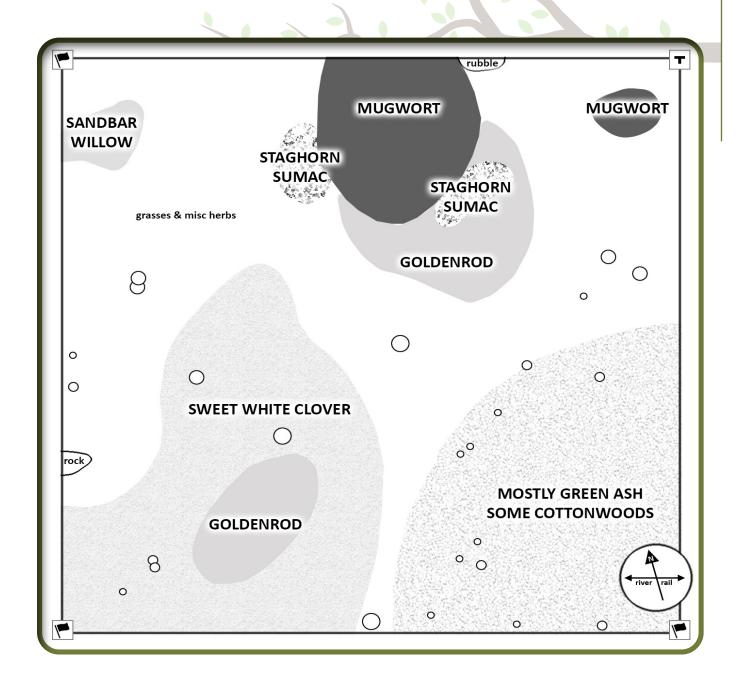
SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Ambrosia artemisiifolia	Ragweed	5 plants↑	
Artemisia vulgaris	Mugwort	10 plants	
Asclepias syriaca	Common milkweed	>30 plants↑	Fruiting: Veg2, MS5
Barbarea vulgaris	Yellow rocketcress	1 plant**	
Bromus inermis	Smooth brome grass	SD	
Cardamine impatiens	Balsam bittercress	15 plants↓	Seeding: Veg2
Centaurea maculosa	Spotted knapweed	<1%	Flowering: Veg 2, MS5
Cirsium arvense	Creeping thistle	5.00%	Flowering: Veg2, MS5
Cirsium vulgare	Bull thistle	2 plants↓	
Daucus carota	Queen Anne's Lace	SD↓	Flowering: Veg2, MS5
Dipsacus sylvestris	Fuller's teasel	10 plants↓	Flowering: Veg2
Echium vulgare	Viper's bugloss	NONE↓	Flowering: MS3, Veg2, MS5
Elymus repens	Quack grass	<1%	
Festuca rubra	Red fescue	DG	Fruiting: Veg2
Fraxinus pennsylvanica	Green ash	70.00%	Fruiting: Veg2
Hypericum perforatum	St. John's wort	2 plants	Flowering: Veg2
Linaria vulgaris	Common toadflax (butter-and-eggs)	3 plants**	Flowering: Veg2
Lotus corniculatus	Birdsfoot trefoil	4 plants	Flowering: Veg2, MS5
Melilotus albus	White sweet clover	NONE↓	Flowering: Veg2, MS5
Oenothera biennis	Common evening primrose	5 plants↑	Flowering: Veg2
Poa pratensis	Kentucky bluegrass	DG	Seeding: Veg2, MS5
Populus deltoides	Eastern cottonwood	15%↑	Seeding: MS3
Rumex xcrispus	Curly dock	NONE↓	
Solidago altissima	Tall goldenrod	10.00%	Flowering: MS5
Solidago nemoralis	Gray goldenrod	2 plants**	
Tanacetum vulgare	Tansy	<1%↓	Flowering: Veg2, MS5; Seeding: MS5
Taraxacum officinale	Common dandelion	ND	
Verbascum thapsus	Common mullein	3 plants**	Flowering: Veg2
Vicia cracca	Cow vetch	3 plants	Flowering: Veg2
Vincetoxicum rossicum	Dog-strangling vine	30%↑	Flowering: Veg2, MS5; Seeding: Veg2, MS5



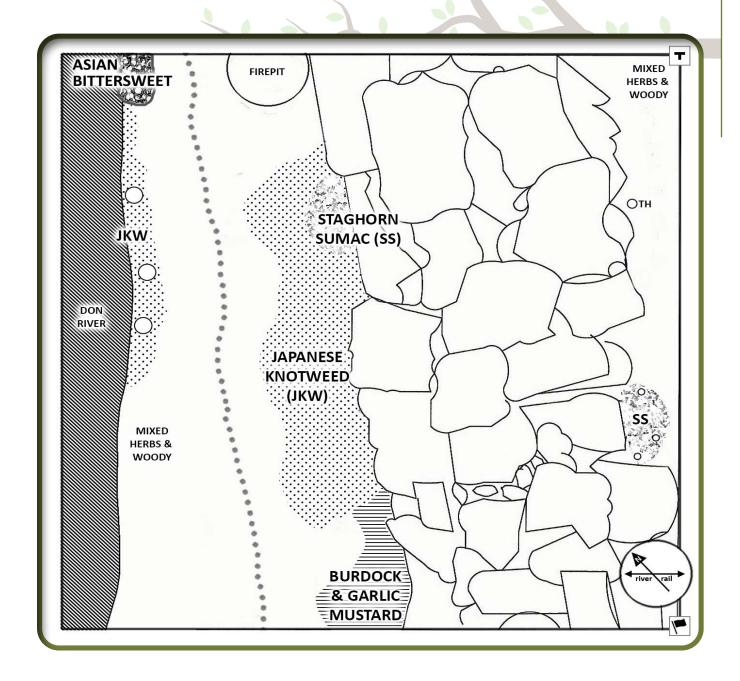
SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Asclepias syriaca	Common milkweed	5 plants↑	Fruiting: Veg2, MS5
Cichorium intybus	Chicory	<1%↓	Flowering: Veg2, MS5
Cornus sericea	Red osier dogwood	2 plants↓	
Dactylis glomerata	Orchard grass	SD	Flowering: Veg2
Daucus carota	Queen Anne's Lace	1%↓	Flowering: Veg2, MS5
Dianthus armeria	Deptford Pink	2 plants**	Flowering: Veg2
Echium vulgare	Viper's bugloss	SD↓	Flowering: MS3, Veg2, MS5
Erigeron annuus	Daisy fleabane	NONE↓	Flowering: MS3, Veg2
Erigeron strigosus	Rough fleabane	5 plants	Flowering: Veg2, MS5;
Eryngium planum	Sea holly	8 plants**	Flowering: Veg2, MS5;
Festuca rubra	Red fescue	DG	Fruiting: Veg2
Hypericum perforatum	St. John's wort	6 plants	Flowering: Veg2
Juglans nigra	Black walnut	7 seedlings↓	
Linaria vulgaris	Common toadflax (butter-and-eggs)	10 plants**	Flowering: Veg2
Lotus corniculatus	Birdsfoot trefoil	5 stems	Flowering: Veg2, MS5
Medicago lupulina	Black medick	5.00%	Flowering: Veg2
Melilotus albus	White sweet clover	25.00%	Flowering: Veg2, MS5
Phleum pratense	Timothy-grass	ND	
Plantago lanceolata	English plantain	SD	
Poa compressa	Flat-stemmed blue grass	16 plants	Fruiting: Veg2
Poa pratensis	Kentucky bluegrass	DG	Seeding: Veg2, MS5
Populus deltoides	Eastern cottonwood	50.00%	Seeding: MS3
Rhamnus cathartica	European buckthorn	10 seedlings	/saplings↓
Rhus typhina	Staghorn sumac	10.00%	Fruiting: Veg2, MS5
Robinia pseudoacacia	Black locust	30%↑	
Solidago altissima	Tall goldenrod	30.00%	Flowering: MS5
Symphyotrichum ericoides	Heath aster	1 plant	
Tanacetum vulgare	Tansy	15.00%	Flowering: Veg2, MS5; Seeding: MS5
Taraxacum officinale	Common dandelion	10 plants	
Vincetoxicum rossicum	Dog-strangling vine	15.00%	Flowering: Veg2, MS5; Seeding: Veg2, MS5
Vitis riparia	Riverbank grape	1 plant	



SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Acer negundo	Manitoba Maple	NONE↓	
Achillea millefolium	Common yarrow	SD	Flowering: Veg2, MS5
Agrostis gigantea	Redtop grass	SD	
Arenaria serpyllifolia	Thyme-leaved sandwort	SD	
Asclepias syriaca	Common milkweed	2 plants↓	Fruiting: Veg2, MS5
Daucus carota	Queen Anne's Lace	2 stems	Flowering: Veg2, MS5
Echium vulgare	Viper's bugloss	6%↑	Flowering: MS3, Veg2, MS5
Elymus repens	Quack grass	SD	
Erigeron annuus	Daisy fleabane	<1%	Flowering: MS3, Veg2
Eryngium planum	Sea holly	NONE↓	Flowering: Veg2, MS5;
Euphorbia vermiculata	Hairy sandmat	NONE↓	
Festuca rubra	Red fescue	SD	Fruiting: Veg2
Fraxinus pennsylvanica	Green ash	2 saplings↓	Fruiting: Veg2
Hieracium spp.	Hawkweed	<1%s↓	
Hypericum perforatum	St. John's wort	NONE↓	Flowering: Veg2
Juglans nigra	Black walnut	1 sapling↓	
Lepidium campestre	Field pepperwort	NONE↓	
Linaria vulgaris	Common toadflax (butter-and-eggs)	SD	Flowering: Veg2
Lotus corniculatus	Birdsfoot trefoil	NONE↓	Flowering: Veg2, MS5
Malus pumila	Apple tree	3 stems	
Medicago lupulina	Black medick	SD	Flowering: Veg2
Melilotus albus	White sweet clover	15%↓	Flowering: Veg2, MS5
Morus alba	White mulberry	1 seedling	
Plantago lanceolata	English plantain	SD	
Poa compressa	Flat-stemmed blue grass	SD	Fruiting: Veg2
Poa pratensis	Kentucky bluegrass	DG	Seeding: Veg2, MS5
Poa spp.	Grass	SD	
Potentilla arguta	Tall cinquefoil	20 plants**	Flowering: Veg2
Potentilla recta	Sulphur cinquefoil	1.00%	Flowering: Veg2; Seeding: MS5
Rhamnus cathartica	European buckthorn	<1%↑	
Rhus typhina	Staghorn sumac	5 plants↑	Fruiting: Veg2, MS5
Rumex xcrispus	Curly dock	NONE↓	
Salix exigua	Sandbar willow	15 stems	
Silene latifolia	White campion	SD↑	Flowering: Veg 2
Solidago altissima	Tall goldenrod	40%↑	Flowering: MS5
Symphyotrichum ericoides	Heath aster	NONE↓	
Symphyotrichum novae-angliae	New England aster	NONE↓	
Tanacetum vulgare	Tansy	25%↓	Flowering: Veg2, MS5; Seeding: MS5
Taraxacum officinale	Common dandelion	5 plants**	
Tragopogon spp.	Salsify	SD	
Trifolium repens	White Clover	1.00%	
Verbascum thapsus	Common mullein	1 plant↑	Flowering: Veg2
Vincetoxicum rossicum	Dog-strangling vine	8%	Flowering: Veg2, MS5; Seeding: Veg2, MS5
Vitis riparia	Riverbank grape	3 plants↑	



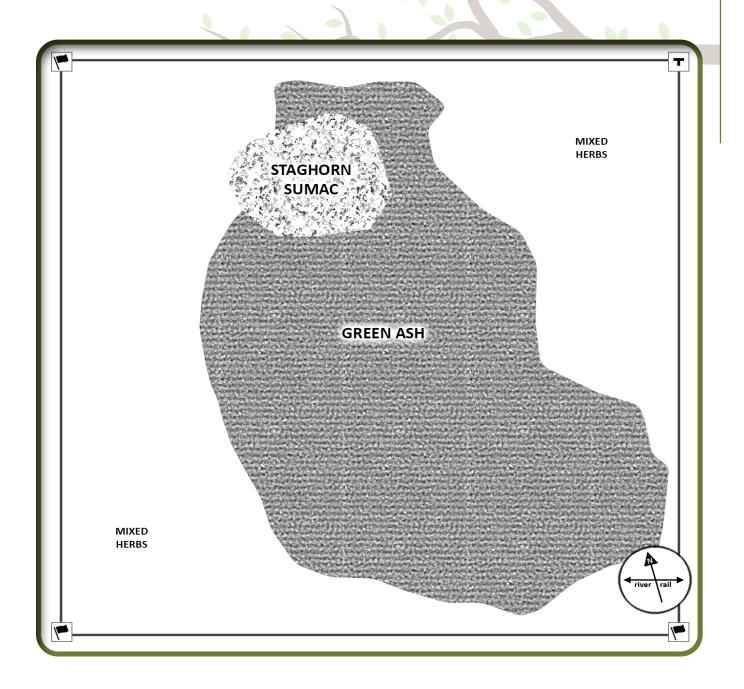
SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Ambrosia artemisiifolia	Ragweed	ND	
Artemisia vulgaris	Mugwort	5%↑	
Daucus carota	Queen Anne's Lace	<1%	Flowering: Veg2, MS5
Echium vulgare	Viper's bugloss	ND	Flowering: MS3, Veg2, MS5
Elymus repens	Quack grass	ND	
Erigeron annuus	Daisy fleabane	NONE↓	Flowering: MS3, Veg2
Eryngium planum	Sea holly	3 plants↓	Flowering: Veg2, MS5;
Festuca rubra	Red fescue	ND**	Fruiting: Veg2
Fraxinus pennsylvanica	Green ash	20%↑	Fruiting: Veg2
Linaria vulgaris	Common toadflax (butter-and-eggs)	ND	Flowering: Veg2
Malva moschata	Musk mallow	ND	
Medicago lupulina	Black medick	ND	Flowering: Veg2
Melilotus albus	White sweet clover	20.00%	Flowering: Veg2, MS5
Poa pratensis	Kentucky bluegrass	DG	Seeding: Veg2, MS5
Populus deltoides	Eastern cottonwood	40.00%	Seeding: MS3
Potentilla recta	Sulphur cinquefoil	ND	Flowering: Veg2; Seeding: MS5
Rhus typhina	Staghorn sumac	5%↑	Fruiting: Veg2, MS5
Salix exigua	Sandbar willow	5.00%	
Solidago altissima	Tall goldenrod	15%↓	Flowering: MS5
Tanacetum vulgare	Tansy	10.00%	Flowering: Veg2, MS5; Seeding: MS5
Taraxacum officinale	Common dandelion	ND	
Vicia cracca	Cow vetch	5 plants	Flowering: Veg2
Vincetoxicum rossicum	Dog-strangling vine	2%↑	Flowering: Veg2, MS5; Seeding: Veg2, MS5
Vitis riparia	Riverbank grape	ND	



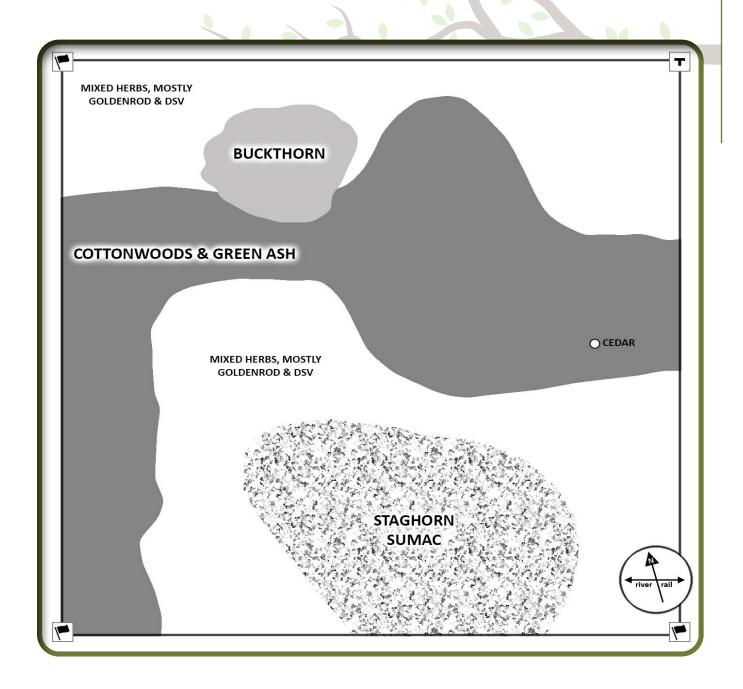
SCIENTIFIC NAME	COMMON NAME	COVER	NOTES
Acer negundo	Manitoba Maple	30.00%	
Ailanthus altissima	Tree of heaven	5 trees	
Ageratina altissima	White snakeroot	NONE↓	
Alliaria petiolata	Garlic mustard	15 plants	Flowering: Veg2
Ambrosia artemisiifolia	Ragweed	15 plants	
Arctium minus	Lesser burdock	3%↑	Flowering: Veg2; Seeding: MS5
Artemisia vulgaris	Mugwort	1 plant**	
Bromus tectorum	Downy chess	SD	
Cardamine impatiens	Balsam bittercress	NONE↓	Seeding: Veg2
Celastrus orbiculatus	Asian bittersweet	5.00%	
Chenopodium album	Lamb's quarters	SD	
Cichorium intybus	Chicory	NONE↓	Flowering: Veg2, MS5
Cirsium arvense	Creeping thistle	NONE↓	Flowering: Veg2, MS5
Cirsium vulgare	Bull thistle	NONE↓	
Cornus alternifolia	Alternate Dogwood	1 plant	
Dactylis glomerata	Orchard grass	ND	Flowering: Veg2
Daucus carota	Queen Anne's Lace	1.00%	Flowering: Veg2, MS5
Echium vulgare	Viper's bugloss	SD	Flowering: MS3, Veg2, MS5
Elymus repens	Quack grass	ND	
Elymus riparius	Riverbank wild rye	NONE↓	
Elymus virginicus	Virginia wild rye	NONE↓	
Erigeron annuus	Daisy fleabane	NONE↓	Flowering: MS3, Veg2
Erigeron canadensis	Horseweed	NONE↓	
Erigeron strigosus	Rough fleabane	NONE↓	Flowering: Veg2, MS5;
Fallopia japonica	Japanese knotweed	15%↑	
Hesperis matronalis	Dame's rocket	NONE↓	
Lactuca serriola	Prickly lettuce	NONE↓	
Linaria vulgaris	Common toadflax (butter-and-eggs)	SD	Flowering: Veg2
Lolium perenne	Perennial rye	SD	Flowering: Veg2
Lycopus europaeus	European bugleweed	NONE↓	
Medicago lupulina	Black medick	SD	Flowering: Veg2
Melilotus albus	White sweet clover	SD	Flowering: Veg2, MS5
Morus alba	White mulberry	1 seedling	<u> </u>
Nepeta cataria	Catnip	2.00%	
Oenothera biennis	Common evening primrose	NONE↓	Flowering: Veg2
Oxalis stricta	Yellow wood-sorrel	SD	<u> </u>
Phalaris arundinacea	Reed canary grass	SD	
Phleum pratense	Timothy-grass	SD	
Plantago rugelii	Red-stemmed plantain	SD	
Poa compressa	Flat-stemmed blue grass	SD	Fruiting: Veg2
Poa nemoralis	Wood bluegrass	NONE↓	

PLOT 7 – Cont.

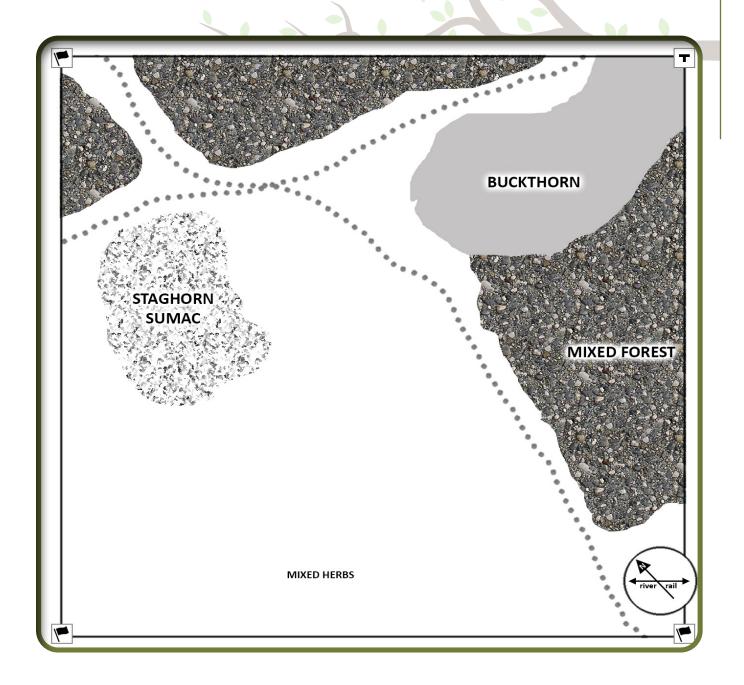
Poa pratensis	Kentucky bluegrass	SD	Seeding: Veg2, MS5
Poa spp.	Grass	SD	
Polygonum persicaria	Lady's-thumb	NONE↓	
Potentilla recta	Sulphur cinquefoil	ND	Flowering: Veg2; Seeding: MS5
Prunus virginiana	Chokecherry	SD	
Ranunculus repens	Creeping buttercup	SD	
Rhamnus cathartica	European buckthorn	6 trees	
Rhus typhina	Staghorn sumac	10.00%	Fruiting: Veg2, MS5
Ribes rubrum	Red currant	SD	Fruiting: MS5
Rubus occidentalis	Black raspberry	1 plant	
Rubus odoratus	Purple-flowering Raspberry	1 plant**	
Rumex xcrispus	Curly dock	3 plants	
Saponaria officinalis	Bouncing bet	SD	
Silene latifolia	White campion	10 plants	Flowering: Veg 2
Solanum dulcamara	Bittersweet nightshade	6 plants	Flowering: MS5
Solidago altissima	Tall goldenrod	5%↑	Flowering: MS5
Sonchus oleraceus	Annual sow-thistle	ND	
Symphyotrichum ericoides	Heath aster	NONE↓	
Symphyotrichum lanceolatur	n Panicled aster	NONE↓	
Tanacetum vulgare	Tansy	30.00%	Flowering: Veg2, MS5; Seeding: MS5
Taraxacum officinale	Common dandelion	10 plants	
Thlaspi arvense	Field penny-cress	NONE↓	
Torilis japonica	Japanese hedge parsley	10 plants	
Trifolium repens	White Clover	ND	
Verbascum thapsus	Common mullein	3 plants↓	Flowering: Veg2
Verbena urticifolia	White vervain	SD	
Vincetoxicum rossicum	Dog-strangling vine	8.00%	Flowering: Veg2, MS5; Seeding: Veg2, MS5
Vitis riparia	Riverbank grape	15 plants	



SCIENTIFIC NAME	COMMON NAME	COVER	NOTES		
Achillea millefolium	Common yarrow	2.00%	Flowering: Veg2, MS5		
Ambrosia artemisiifolia	Ragweed	2 plants			
Asclepias syriaca	Common milkweed	1 plant **	Fruiting: Veg2, MS5		
Bassia scoparia	Summer cypress	5 plants			
Centaurea maculosa	Spotted knapweed	5.00%	Flowering: Veg 2, MS5		
Cichorium intybus	Chicory	4 plants↑	Flowering: Veg2, MS5		
Daucus carota	Queen Anne's Lace	3 plants	Flowering: Veg2, MS5		
Echium vulgare	Viper's bugloss	ND	Flowering: MS3, Veg2, MS5		
Erigeron annuus	Daisy fleabane	SD	Flowering: MS3, Veg2		
Eryngium planum	Sea holly	1 plant↑	Flowering: Veg2, MS5;		
Fraxinus pennsylvanica	Green ash	25%↑	Fruiting: Veg2		
Hypericum perforatum	St. John's wort	NONE↓	Flowering: Veg2		
Juglans nigra	Black walnut	4 seedlings**			
Linaria vulgaris	Common toadflax (butter-and-eggs)	2 plants	Flowering: Veg2		
Lotus corniculatus	Birdsfoot trefoil	1 clump↓	Flowering: Veg2, MS5		
Medicago Iupulina	Black medick	ND	Flowering: Veg2		
Melilotus albus	White sweet clover	1.00%	Flowering: Veg2, MS5		
Phalaris arundinacea	Reed canary grass	1.00%			
Poa spp.	Grass	DG			
Potentilla recta	Sulphur cinquefoil	20 plants↑	Flowering: Veg2; Seeding: MS5		
Quercus rubra	Red oak	1 sapling			
Rhamnus cathartica	European buckthorn	1 seedling**			
Rhus typhina	Staghorn sumac	8%↑	Fruiting: Veg2, MS5		
Rumex xcrispus	Curly dock	NONE↓			
Schizachyrium scoparium	Little bluestem	3 plants**			
Solidago altissima	Tall goldenrod	20.00%	Flowering: MS5		
Symphyotrichum ericoides	Heath aster	NONE↓			
Tanacetum vulgare	Tansy	15.00%	Flowering: Veg2, MS5; Seeding: MS5		
Verbascum thapsus	Common mullein	3 plants**	Flowering: Veg2		
Vicia cracca	Cow vetch	NONE↓	Flowering: Veg2		
Vincetoxicum rossicum	Dog-strangling vine	15%	Flowering: Veg2, MS5; Seeding: Veg2, MS5		



SCIENTIFIC NAME	COMMON NAME	COVER	NOTES		
Acer negundo	Manitoba Maple	1 tree			
Ambrosia artemisiifolia	Ragweed	3 plants↑			
Asclepias syriaca	Common milkweed	2 plants	Fruiting: Veg2, MS5		
Campanula rapunculoides	Creeping bellflower	NONE↓			
Cirsium vulgare	Bull thistle	NONE↓			
Daucus carota	Queen Anne's Lace	1.00%	Flowering: Veg2, MS5		
Fraxinus pennsylvanica	Green ash	5.00%	Fruiting: Veg2		
Hypericum perforatum	St. John's wort	NONE↓	Flowering: Veg2		
Juglans nigra	Black walnut	3 seedlings			
Juniperus virginiana	Eastern red cedar	1 tree			
Linaria vulgaris	Common toadflax (butter-and-eggs)	ND	Flowering: Veg2		
Medicago lupulina	Black medick	3%↑	Flowering: Veg2		
Melilotus albus	White sweet clover	5.00%	Flowering: Veg2, MS5		
Poa spp.	Grass	5.00%			
Populus deltoides	Eastern cottonwood	60%↑	Seeding: MS3		
Potentilla recta	Sulphur cinquefoil	8 plants	Flowering: Veg2; Seeding: MS5		
Rhamnus cathartica	European buckthorn	10%↑			
Rhus typhina	Staghorn sumac	15%↑	Fruiting: Veg2, MS5		
Robinia pseudoacacia	Black locust	4 seedlings			
Solidago altissima	Tall goldenrod	40%↑	Flowering: MS5		
Symphyotrichum ericoides	Heath aster	NONE↓			
Tanacetum vulgare	Tansy	10%↓	Flowering: Veg2, MS5; Seeding: MS5		
Taraxacum officinale	Common dandelion	NONE↓			
Ulmus pumila	Siberian elm	8 trees/saps			
Vincetoxicum rossicum	Dog-strangling vine	20.00%	Flowering: Veg2, MS5; Seeding: Veg2, MS5		
Vitis riparia	Riverbank grape	2 plants↓			



SCIENTIFIC NAME	COMMON NAME	COVER	NOTES		
Acer negundo	Manitoba Maple	<1%			
Alliaria petiolata	Garlic mustard	NONE↓	Flowering: Veg2		
Ambrosia artemisiifolia	Ragweed	20 plants**			
Arctium minus	Lesser burdock	NONE↓	Flowering: Veg2; Seeding: MS5		
Bassia scoparia	Summer cypress	1 plant			
Cichorium intybus	Chicory	1.00%	Flowering: Veg2, MS5		
Cirsium arvense	Creeping thistle	NONE↓	Flowering: Veg2, MS5		
Cirsium vulgare	Bull thistle	NONE↓			
Daucus carota	Queen Anne's Lace	1.00%	Flowering: Veg2, MS5		
Dianthus armeria	Deptford Pink	NONE↓	Flowering: Veg2		
Echium vulgare	Viper's bugloss	NONE↓	Flowering: MS3, Veg2, MS5		
Erigeron strigosus	Rough fleabane	1.00%	Flowering: Veg2, MS5;		
Fraxinus pennsylvanica	Green ash	5.00%	Fruiting: Veg2		
Hypericum perforatum	St. John's wort	NONE↓	Flowering: Veg2		
Juglans nigra	Black walnut	3 seedlings↓			
Juncus tenuis	Slender rush	20 plants**			
Linaria vulgaris	Common toadflax (butter-and-eggs)	NONE↓	Flowering: Veg2		
Lonicera tatarica	Tatarian honeysuckle	1 plant↓			
Malus pumila	Apple tree	1 stem			
Medicago lupulina	Black medick	2.00%	Flowering: Veg2		
Melilotus albus	White sweet clover	<1%	Flowering: Veg2, MS5		
Nepeta cataria	Catnip	NONE↓			
Phleum pratense	Timothy-grass	<1%↓			
Pinus austrian	Austrian pine	NONE↓			
Poa pratensis	Kentucky bluegrass	10.00%	Seeding: Veg2, MS5		
Populus deltoides	Eastern cottonwood	10%↑	Seeding: MS3		
Rhamnus cathartica	European buckthorn	25%↑			
Rhus typhina	Staghorn sumac	15%↑	Fruiting: Veg2, MS5		
Rubus occidentalis	Black raspberry	1 plant			
Securigera varia	Crownvetch	12%↑	Flowering: Veg 2, MS5		
Silene latifolia	White campion	2 plants	Flowering: Veg 2		
Solidago altissima	Tall goldenrod	5.00%	Flowering: MS5		
Symphyotrichum novae-angliae	New England aster	NONE↓			
Tanacetum vulgare	Tansy	10%↓	Flowering: Veg2, MS5; Seeding: MS5		
Taraxacum officinale	Common dandelion	30 plants			
Torilis japonica	Japanese hedge parsley	NONE↓			
Trifolium repens	White Clover	NONE↓			
Vincetoxicum rossicum	Dog-strangling vine	40%↑	Flowering: Veg2, MS5; Seeding: Veg2, MS5		
Vitis riparia	Riverbank grape	3 plants			



To facilitate robust use of data, a spreadsheet of all observations (flora & fauna) was delivered to NECP along with this report. For ease of use, this data set is maintained by Toronto Field Naturalists at the following URL:

https://tfngo.to/cfmp-2021-data

Should readers require a copy of this spreadsheet please contact cfmp@torontofieldnaturalists.org.

APPENDIX B: COMPILED FAUNA DATA

Data presented in this section has been compiled from all fauna logs submitted during the 2020 season. Species were logged on a plot by plot basis, and the possibility exists that the same animal may have been logged multiple times as it moved between plots.

COMPLETE DATA SET (ALL PLOTS)

SCIENTIFIC NAME	COMMON NAME	PLOT 1	PLOT 2	PLOT 3	PLOT 4	PLOT 5	PLOT 6	PLOT 7	PLOT 8	PLOT 9	PLOT 10	CIRCLE
Agelaius phoeniceus	Red-winged blackbird							1				
Cardinalis cardinalis	Northern cardinal						2				1	
Colias philodice	Common sulphur butterfly				1							
Cyanocitta cristata	Blue jay		1							1		
Danaus plexippus	Monarch butterfly	5	4		3	3	3					
Dumetella carolinensis	Grey Catbird	1										
Euphyes vestris**	Dun Skipper butterfly		1				2					
Larus delawarensis	Ring-billed gull							1				
Melospiza melodia	Song sparrow	1				1		3			3	
Pieris rapae	Cabbage white butterfly	3	3	1	2	2	11					
Poecile atricapillus	Black-capped chickadee							1				
Regulus spp.	Kinglet			1				6				
Setophaga petechia	Yellow warbler		1		1						1	
Sialia sialis	Eastern bluebird		2									
Spinus tristis	American goldfinch	1			3		2	9	1	1	1	1
Sturnus vulgaris	European starling			1			1					2
Tachycineta bicolor	Tree swallow							2				
Turdus migratorius	American Robin		1		1		1	5	3	2	1	4

APPENDIX B: COMPILED FAUNA DATA CONTINUED

COMPLETE DATA SET (BY DATE)

SCIENTIFIC NAME	COMMON NAME	MS3	MS4	VEG2	MS5	
Agelaius phoeniceus	Red-winged blackbird	1				
Cardinalis cardinalis	Northern cardinal		1	2		
Colias philodice	Common sulphur butterfly			1		
Cyanocitta cristata	Blue jay		1		1	
Danaus plexippus	Monarch butterfly			18		
Dumetella carolinensis	Grey Catbird			1		
Euphyes vestris**	Dun Skipper butterfly			3		
Larus delawarensis	Ring-billed gull		1			
Melospiza melodia	Song sparrow	1	2	5		
Pieris rapae	Cabbage white butterfly			22		
Poecile atricapillus	Black-capped chickadee		1			
Regulus spp.	Kinglet				7	
Setophaga petechia	Yellow warbler	2		1		
Sialia sialis	Eastern bluebird				2	
Spinus tristis	American goldfinch		9	8		
Sturnus vulgaris	European starling	2			2	
Tachycineta bicolor	Tree swallow			2		
Turdus migratorius	American Robin	8		1	9	

APPENDIX C: HUMAN USE DATA

Human use data was collected by the CFMP Site Ambassador and reflects observations recorded along the trail that connects the Lower Don Recreational Trail to Sun Valley / Crothers Woods. Individuals and/or dogs may have been counted more than once if they made a return journey and the Site Ambassador did not recognize them.

SIGHTING	MS1	MS2	MS3	VEG2	MS4	MS5
Person, on foot	N/A	N/A	*	142	*	121
Person, on bike	N/A	N/A	*	29	*	17
Dog, on leash	N/A	N/A	*	23	*	22
Dog, off leash	N/A	N/A	*	22	*	17

^{*} Data not collected (no ambassador)

APPENDIX D: ASSESSMENT AND SESSION NOTES

Note: in previous years, CFMP protocol used 6 Monitoring Sessions & 2 Vegetation Assessments. This protocol was adjusted for 2021 to eliminate the first Monitoring Session & first Vegetation Assessment of the year, as recommended in the CFMP 2020 Report.

MS1: MONITORING SESSION #1

Scheduled for April 27, 7:00am to 9:00am, this session was cancelled due to COVID-19 restrictions.

MS2: MONITORING SESSION #2

Scheduled for May 16, 10:00am to 12:00pm, this session was cancelled due to COVID-19 restrictions.

MS3: MONITORING SESSION #3

Date	Jun 13, 10:00am - 12:00pm
Temperature	16°C to 19°C
Beaufort Sky Code	1 (partly cloudy)
Beaufort Wind Code	1 (light); S/SW
Flora ID	Charles Bruce-Thompson, Leila Forsyth
Fauna ID	Anne Powell
Photographer	Andrew Interisano
Site Ambassador	Volunteer unavailable
Other participants	
Administrator	Charles Bruce-Thompson

VEG2: VEGETATION ASSESSMENT

Date	July 25, 10:00am – 2:00pm
Temperature	26°C to 30°C
Beaufort Sky Code	2 (continuous cloud)
Beaufort Wind Code	2 (light breeze) to 3 (gentle breeze); S
Flora ID	Stephen Smith, Nancy Dengler, Leila Forsyth
Fauna ID	Latchin Poon
Photographer	Jason Ramsay-Brown
Site Ambassador	Nina Hunt
Other participants	Rosemary Warren, Katherine Parks
Administrator	Charles Bruce-Thompson

MS4: MONITORING SESSION #4

Date	Aug 21, 10:00am – 12:00pm
Temperature	27°C
Beaufort Sky Code	1 (partly cloudy)
Beaufort Wind Code	2 (light breeze); NE
Flora ID	Rosemary Warren, Katherine Parks
Fauna ID	Latchin Poon
Photographer	Charles Bruce-Thompson
Site Ambassador	Volunteer unavailable
Other participants	
Administrator	Charles Bruce-Thompson

MS5: MONITORING SESSION #5

Date	October 17, 10:00am - 12:00pm
Temperature	14°C to 18°C
Beaufort Sky Code	1 (partly cloudy)
Beaufort Wind Code	1 (light); S/SW
Flora ID	Lillian Natalizio, Sabrina Adamski, Charles Bruce-Thompson
Fauna ID	Anne Powell
Photographer	David Wallace Barr
Site Ambassador	Anna Waldvogel
Other participants	
Administrator	Charles Bruce-Thompson