

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Patricia Butter
7 Mamasco Road
Carmel, NY 10516
(917) 670-5875
plbuttercup@gmail.com

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The Friends of Trailside Museum and Ward Pound Ridge Reservation
PO Box 236
Cross River, NY 10518

Dear Officers of the Board of The Friends of Trailside,

On behalf of myself and my colleagues, Devon Cummings and Daniel Atha, it gives me great pleasure to present to the Board of the Friends of Trailside Museum the seventh quarterly report of the Flora Project covering the period of March 16 through June 15, 2024. We gratefully acknowledge the financial support of the Friends, and we hope our results so far surpass your expectations.

As the growing season began, we wrapped up the specimen mounting of the previous season's vouchers, delivered big boxes of specimens to The New York Botanical Garden and the New York State Museum, began revisiting botanical hot spots and surveying new areas.

During an early season field day, we puzzled over a colony of trees growing in an upland swamp. The emerging buds looked like *Populus*, and as we searched for and found some fallen leaves from the previous season, Daniel recognized it as Swamp poplar, *Populus heterophylla*. This is an exciting discovery, since not only is it listed as threatened NY S2 in New York state, but it is the first record of this species from Westchester County. This discovery once again demonstrates the unique and beautiful habitats that are so important for conservation at The Ward Pound Ridge Reservation.

In consideration of the objectives of the Flora Project, during this three-month period of the early season we collected 87 plant specimens at over thirty-four locations throughout the Ward Pound Ridge Reservation and traveled over seven miles of trails during eleven days of field study. We documented one rare plant species, and seven plants that are the first specimen records from Westchester County.

As the next quarter brings us into the height of the summer season, we will continue to employ the highest scientific standards as we work towards our ultimate goal - to identify and document every wild plant species currently growing in the Reserve as well as plant communities of conservation importance and concern. We hope that you agree that we are making significant progress towards that goal. We are thankful for your generous support.

Respectfully Yours,

Patricia Butter

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Table of Contents

| | |
|--|---|
| Objective | 2 |
| Materials and Methods | 2 |
| Specimen Collections | 4 |
| Notable Collections | 4 |
| iNaturalist Observations | 5 |
| Trailside Herbarium | 5 |
| Research and Collaborations | 6 |
| Project Photos | 7 |
| Appendix I: Map of Plant Specimen Collection Sites | |
| Appendix II: Plant Specimen Collection Data | |
| Appendix III: List of Specimens in the Trailside Herbarium | |

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

We gratefully acknowledge the Westchester County Parks Staff that have generously contributed their time and expertise to this study: Taro Ietaka, Jeff Main, Daniela Ciatto, Hayley Lewis, Brendan Wallace, Michael Gambino, Lindsey Feinberg, Jason Klein, Leah Cass, Dan Aitchison, Kristina Hayek, Uri Sarig and Jocelyn Lucente.

Objective:

The objective of the Flora Project at Ward Pound Ridge Reservation is to preserve a specimen of every vascular plant species growing spontaneously in the park and to identify and document the ecological communities, prioritizing those of conservation concern. The collection of pressed herbarium specimens of each plant species provides a physical record available for botanical study. The project expands and improves upon the historic records of the reservation by creating an easily accessible resource for conservation efforts by providing a precise and detailed data set and scientifically verifiable records, enabling park management to identify priority plant species and communities for conservation efforts.

Materials and Methods:

This work was performed in accordance with the details set forth in the Flora of Ward Pound Ridge Reservation Proposal approved by the Officers of the Board of the Friends of Trailside on September 15, 2022. Field Work data and specimen collection was performed by Patricia Butter, Devon Cummings, and Daniel Atha with assistance from Taro Ietaka, Lindsey Feinberg, Leah Cass, Jeff Main, Daniela Ciatto, Hayley Lewis, Brendan Wallace, Michael Gambino, Jason Klein, Kristina Hayek, Uri Sarig and Jocelyn Lucente of Westchester County Parks, Friends of Trailside Board member Linda Burke, and volunteers Varner Redmon, Julia Snook, Kevin Sisco, Amy Eli Trautwein, Dorothy Werkmeister, Dennis Galcik, Susan Allport, Gail Jankus, and Maxwell Sabety.

Specimen collection involved creating three pressed and dried herbarium specimens (when populations were sufficient) to specification (11.5" x 16.5") with parts representing reproductive characteristics and both sides of the leaves of the plant. Whenever possible root structure was also represented.

The specimen data collected included GPS coordinates of the geographic location, a description of the plant's characteristics that may not be reflected in the dried specimen, the population size, and the plant community in which the species associates.

Photographs were taken of the plants in their natural setting, including detailed photos of key identifying characteristics. These photos were uploaded to the iNaturalist platform.

One specimen of each species will be mounted on archival herbarium paper together with a specimen label for Westchester County Park's herbarium.

One specimen and label of each species, together with a spreadsheet containing the relevant data will be contributed to the Steere Herbarium at the New York Botanical Garden, which has digitization capabilities to make the specimens available for study to the scientific community at large. An additional duplicate of each specimen will be contributed to the New York State Museum, where the

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

herbarium is currently undergoing a revitalization, and is expected to be available online in the near future.

A spreadsheet has been established in Google docs with the data for each specimen collected. This data is formatted in the Darwin Core Code for ease of uploading to GBIF, the Global Biodiversity Information Facility by the herbaria.

In consideration of the objective of the Flora Project, eighty-seven plant specimens and data were collected at over thirty-four locations in WPRR (see Appendix I for a map and complete list of collections), in chronological order:

- The group campsite near the Michigan Road parking area
- The Deer Hollow Trail to the Brown Trail
- The edges and hedgerows of Reservation Road
- The drainage ditches along Reservation Road near the Trailside Museum
- The meadow northwest of Trailside
- The Fox Hill Trail along the Cross River
- The meadows adjacent to the Meadow Parking Area.
- The meadows along Michigan Road
- The southern section of Rocks Trail from the BMRA
- The Powerline cut
- The hill next to campsite #7
- The wetlands near the Meadow Parking Area
- The stream near the Main Office
- The meadows along Michigan Road
- The compost area
- The blue trail from Kimberly Bridge to Gilmore Pond.
- The Waccabuc swamp
- The meadows north of the Maintenance Barn
- The Brown Trail to a series of upland swamps
- The watershed east of Deer Hill flowing into the Cross River



Uri Sarig helped collect specimens of False Hellebore and Yellow Iris along the blue trail on May 25, 2024

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Specimen Collections: 87. All specimens and the associated data have been recorded in a shared spreadsheet (see Appendix II for the complete list).

- One rare plant species was documented with specimen records.
- Seven plants collected were the first records of the species from Westchester County.

Notable collections:

A special plant community that we documented this quarter is notable and worthy of mention here. In the index card file in the Trailside Museum, we had found notes about *Clintonia borealis*, Bluebead Lily reported from “H9 Boulder slope” and *Streptopus lanceolatus*, Rose Twisted Stalk from “Seep in cliff north of Gilmore Pond”. These notes were intriguing because neither species had been documented in Westchester County before. These plants are typically known from northern, more boreal areas of New York state. This winter, Gail Jankus had also shared her list of photos from Ward Pound Ridge, which included these two species and a note “Blue trail 20-30 feet past split rail fence”. We were getting warmer, and even better, she offered to take us to the spot. Additionally, we found iNaturalist observations of these species by Susan Allport with GPS coordinates! Susan also offered to guide us to the site. We were incredibly fortunate on June 25th to have both Susan and Gail join us to document the plants in this unique area where the rock ledges and talus slopes create cool grottos that shelter these typically more northern species of plants.

- Swamp Poplar (*Populus heterophylla*), NY S2 threatened, first record from Westchester County.
- Dewey’s Sedge (*Carex deweyana* var. *deweyana*), NY S5, first record from Westchester County, collected from uplands near Spy Rock.
- Blue Bead Lily (*Clintonia borealis*), NY S5, first record from Westchester County, collected along Blue Trail.
- Rose Twisted Stalk (*Streptopus lanceolatus*), NY S5, first record from Westchester County, collected along Blue Trail.
- Narrow-leaved Bird’s Foot Trefoil (*Lotus tenuis*), Naturalized, first record from Westchester County, collected from the compost area.
- Meadow Salsify (*Tragopogon pratensis*), Naturalized, first record from Westchester County, collected from the meadows along Michigan Road.
- Common Water Starwort (*Callitriche stagnalis*), Naturalized, first record from Westchester County, collected from the floodplain of the Cross River.

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024



A leaf of Swamp Cottonwood,
Populus heterophylla, NY S2 threatened
Photo: Daniel Atha

iNaturalist observations: 326

Notable observation:

- Pale Green Orchid (*Platanthera flava*), NY S4 , three plants were observed, one was in flower, not collected due to scarcity, leaves browsed.

Trailside Herbarium: It is very exciting to see how the collection at The Trailside Herbarium has grown and now includes 496 mounted specimens from the Flora project. Each of these specimens has been carefully collected, documented, dried, labeled and mounted using the highest scientific standards.

The specimens also underwent an aggressive freezing process to eliminate insects. The process included freezing at -2 degrees Fahrenheit for seven days, followed by three days at room temperature, and then an additional seven days at -2 degrees. A complete list of the Herbarium collection is included in Appendix III.

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024



23 May, 2024, The Trailside Herbarium cabinets with newly mounted plant specimens.

Research and Collaborations: Notable items accomplished included: Reporting rare plant observations to the New York Natural Heritage Program for *Populus heterophylla*.

On May 2, 2024, 354 specimens from the 2023 season were delivered to the Steere Herbarium at the New York Botanical Garden.

On April 19, 2024, 344 specimens from the 2023 season were delivered to the New York State Museum Herbarium. All specimens were delivered together with a spreadsheet containing the data from the labels structured to conform to the Darwin Code Standards utilized by the worldwide biological community to publish their data with GBIF, the Global Biodiversity Information Facility (www.gbif.org).

In summary, the goal of the Flora Project is to identify and document plant communities of conservation importance and concern. This study will advance scientific knowledge of our flora at county, state and regional levels. The Ward Pound Ridge Reservation is an important area for conservation, and the commitment to conservation and financial support of the Friends of Trailside comes at a crucial time. This work on the Flora of Ward Pound Ridge Reservation has been performed by Patricia Butter, Devon Cummings and Daniel Atha in approximately 250 hours of labor. The next quarter will be dedicated to further fieldwork and the collection of specimens.

Report prepared by Patricia Butter with contributions from Devon Cummings and Daniel Atha.

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024



Top row from left: *Anemonoides quinquefolia*, *Clintonia borealis*; middle row, *Rhododendron periclymenoides*; bottom row from left: *Lotus corniculatus*, *Geranium maculatum*. Background photo of upland swamp where *Populous heterophylla* was found. Photos by Patricia Butter and Devon Cummings.

Flora of Ward Pound Ridge Reservation

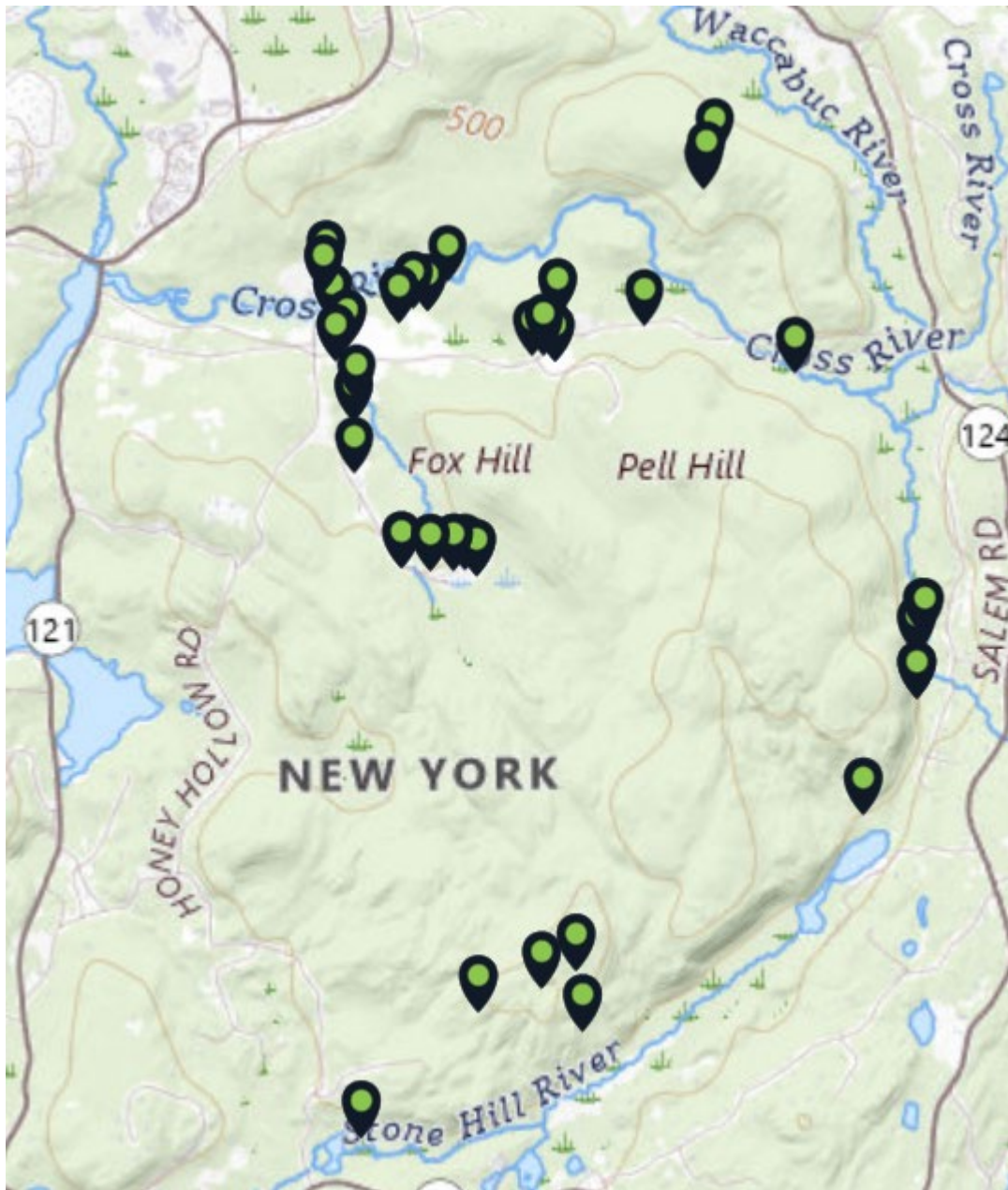
Seventh Quarterly Report

March 16 – June 15, 2024

Appendix I

Map of Ward Pound Ridge Reservation Plant Specimen Collection Sites

18 March – 15 June 2024



See lists of species collected below.

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Collected on March 16, 2024, Group Campsite, Michigan Road

Collector: Patricia Butter

Capsella bursa-pastoris

Collected on April 6, 2024, Deer Hollow Trail to Brown Trail,

Collectors: Patricia Butter, Devon Cummings, Daniel Atha

Picea

Populus heterophylla

Prunus

Taraxacum officinale

Collected on April 20, 2024, Along Reservation Road from Kimberly Bridge to the Main Office, Fox Hill Trail north of Reservation Road

Collectors: Patricia Butter, Devon Cummings

Amelanchier sanguinea

Antennaria plantaginifolia

Equisetum arvense

Glechoma hederacea

Ranunculus abortivus

Antennaria

Antennaria

Salix

Salix

Salix alba var. *vitellina*

Salix eriocephala

Tussilago farfara

Viola rotundifolia

Collected on May 4, 2024, Rocks Trail from BMRA to the Powerline Cut

Collectors: Patricia Butter, Devon Cummings

Amelanchier spicata

Cardamine pratensis

Carex deweyana var. *deweyana*

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Potentilla canadensis

Rhododendron periclymenoides

Uvularia sessifolia

Viola subsinuata

Collected on May 8, 2024, Rock outcrop near campsite #7, Cross River near Maintenance Barn

Collector: Patricia Butter

Aquilegia canadensis

Malus

Malus domestica

Prunus avium

Salix eriocephala

Viburnum prunifolium

Collected on May 13, 2024, Stream near Meadow Parking Area, Stream near Main Office

Collector: Patricia Butter

Carex blanda

Carex prasina

Primula japonica

Prunus virginiana var. *virginiana*

Ranunculus caricetorum

Salix sericea

Veronica chamaedrys

Collected on May 15, 2024, Meadow and Michigan Road Parking Areas

Collector: Patricia Butter

Cardamine impatiens

Carex conoidea

Eleocharis

Geranium maculatum

Matricaria discoidea

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Collected on May 25, 2024, Blue Trail east, compost area

Collectors: Devon Cummings, Patricia Butter, Taro Ietaka,
Uri Sarig, Susan Allport, Gail Jankus

Acer spicatum

Aralia nudicaulis

Asarum canadense

Carex appalachica

Carex cephalophora

Carex rosea

Carex scabrata

Carex sparganioides

Clintonia borealis

Euphorbia cyparissias

Festuca subverticillata

Iris pseudacorus

Lotus tenuis

Lysimachia borealis

Maianthemum racemosum

Mitella diphylla

Schedonorus arundinaceus

Staphylea trifolia

Streptopus lanceolatus

Veratrum viride

Collected on May 26, 2024, Michigan Road meadows,

Cross River swamp

Collector: Patricia Butter

Callitriche stagnalis

Carex tribuloides var. *tribuloides*

Festuca rubra ssp. *rubra*

Melilotus officinalis

Phalaris arundinacea

Sagina japonica

Tragopogon pratensis

Collected on May 31, 2024, Compost area, Michigan Road meadows

Collector: Patricia Butter

Carex normalis

Dichanthelium commutatum ssp. *ashei*

Flora of Ward Pound Ridge Reservation

Seventh Quarterly Report

March 16 – June 15, 2024

Dichanthelium depauperatum

Pilosella pilloseloides

Vitis riparia

**Collected on June 10, 2024, meadows north of Cross
River, Brown Trail to upland swamps**

Collectors: Patricia Butter, Daniel Atha, Devon Cummings

Allium canadense var. *canadense*

Carex conoidea

Carex pellita

Carex seorsa

Carex vulpinoidea

Danthonia compressa

Eleocharis erythropoda

Festuca subverticillata

Lotus corniculatus

Penstemon digitalis

Poa palustris

Populus heterophylla

Rumex crispus

Sassafras albidum

Vicia cracca

Appendix II: Specimens Collected 16 March - 15 June, 2024

| Botanical Name | Collection Date | Collection Number |
|---|-----------------|-------------------|
| <i>Capsella bursa-pastoris</i> | 16-Mar-2024 | 1299 |
| <i>Picea</i> | 6-Apr-2024 | 16446 |
| <i>Populus heterophylla</i> | 6-Apr-2024 | 16447 |
| <i>Prunus</i> | 6-Apr-2024 | 16449 |
| <i>Taraxacum officinale</i> | 6 Apr 2024 | 16448 |
| <i>Amelanchier sanguinea</i> | 20-Apr-2024 | 1307 |
| <i>Antennaria plantaginifolia</i> | 20-Apr-2024 | 93 |
| <i>Equisetum arvense</i> | 20-Apr-2024 | 94 |
| <i>Glechoma hederacea</i> | 20-Apr-2024 | 95 |
| <i>Ranunculus abortivus</i> | 20-Apr-2024 | 92 |
| <i>Antennaria</i> | 20-Apr-2024 | 97 |
| <i>Antennaria</i> | 20-Apr-2024 | 96 |
| <i>Salix</i> | 20-Apr-2024 | 1306 |
| <i>Salix</i> | 20-Apr-2024 | 1305 |
| <i>Salix alba</i> var. <i>vitellina</i> | 20-Apr-2024 | 1304 |
| <i>Salix eriocephala</i> | 20-Apr-2024 | 1303 |
| <i>Tussilago farfara</i> | 20-Apr-2024 | 1308 |
| <i>Viola rotundifolia</i> | 20-Apr-2024 | 98 |
| <i>Amelanchier spicata</i> | 4-May-2024 | 1315 |
| <i>Cardamine pratensis</i> | 4-May-2024 | 1312 |
| <i>Carex deweyana</i> var. <i>deweyana</i> | 4-May-2024 | 1313 |
| <i>Potentilla canadensis</i> | 4-May-2024 | 1314 |
| <i>Rhododendron periclymenoides</i> | 4-May-2024 | 1317 |
| <i>Uvularia sessifolia</i> | 4-May-2024 | 1316 |
| <i>Viola subsinuata</i> | 4-May-2024 | 1318 |
| <i>Aquilegia canadensis</i> | 8-May-2024 | 1320 |
| <i>Malus</i> | 8-May-2024 | 1319 |
| <i>Malus domestica</i> | 8-May-2024 | 1323 |
| <i>Prunus avium</i> | 8-May-2024 | 1322 |
| <i>Salix eriocephala</i> | 8-May-2024 | 1324 |
| <i>Viburnum prunifolium</i> | 8-May-2024 | 1321 |
| <i>Carex blanda</i> | 13-May-2024 | 1330 |
| <i>Carex prasina</i> | 13-May-2024 | 1329 |
| <i>Primula japonica</i> | 13-May-2024 | 1327 |
| <i>Prunus virginiana</i> var. <i>virginiana</i> | 13-May-2024 | 1331 |
| <i>Ranunculus caricetorum</i> | 13-May-2024 | 1328 |
| <i>Salix sericea</i> | 13-May-2024 | 1325 |
| <i>Veronica chamaedrys</i> | 13-May-2024 | 1326 |
| <i>Cardamine impatiens</i> | 15-May-2024 | 1336 |
| <i>Carex conoidea</i> | 15-May-2024 | 1335 |
| <i>Eleocharis</i> | 15-May-2024 | 1333 |
| <i>Geranium maculatum</i> | 15-May-2024 | 1332 |
| <i>Matricaria discoidea</i> | 15-May-2024 | 1334 |
| <i>Acer spicatum</i> | 25-May-2024 | 1350 |
| <i>Aralia nudicaulis</i> | 25-May-2024 | 120 |
| <i>Asarum canadense</i> | 25-May-2024 | 123 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|---|-------------|-------|
| <i>Carex appalachica</i> | 25-May-2024 | 1353 |
| <i>Carex cephalophora</i> | 25-May-2024 | 1359 |
| <i>Carex rosea</i> | 25-May-2024 | 1358 |
| <i>Carex scabrata</i> | 25-May-2024 | 1360 |
| <i>Carex sparganioides</i> | 25-May-2024 | 1357 |
| <i>Clintonia borealis</i> | 25-May-2024 | 1349 |
| <i>Euphorbia cyparissias</i> | 25-May-2024 | 1347 |
| <i>Festuca subverticillata</i> | 25-May-2024 | 1356 |
| <i>Iris pseudacorus</i> | 25-May-2024 | 1352 |
| <i>Lotus tenuis</i> | 25-May-2024 | 1361 |
| <i>Lysimachia borealis</i> | 25-May-2024 | 119 |
| <i>Maianthemum racemosum</i> | 25-May-2024 | 1355 |
| <i>Mitella diphylla</i> | 25-May-2024 | 1354 |
| <i>Schedonorus arundinaceus</i> | 25-May-2024 | 1348 |
| <i>Staphylea trifolia</i> | 25-May-2024 | 124 |
| <i>Streptopus lanceolatus</i> | 25-May-2024 | 1351 |
| <i>Veratrum viride</i> | 25-May-2024 | 121 |
| <i>Callitriche stagnalis</i> | 26-May-2024 | 1367 |
| <i>Carex tribuloides</i> var. <i>tribuloides</i> | 26-May-2024 | 1364 |
| <i>Festuca rubra</i> ssp. <i>rubra</i> | 26-May-2024 | 1366 |
| <i>Melilotus officinalis</i> | 26-May-2024 | 1362 |
| <i>Phalaris arundinacea</i> | 26-May-2024 | 1368 |
| <i>Sagina japonica</i> | 26-May-2024 | 1365 |
| <i>Tragopogon pratensis</i> | 26-May-2024 | 1363 |
| <i>Carex normalis</i> | 31-May-2024 | 1381 |
| <i>Dichanthelium commutatum</i> ssp. <i>ashei</i> | 31-May-2024 | 1384 |
| <i>Dichanthelium depauperatum</i> | 31-May-2024 | 1385 |
| <i>Pilosella pilloseloides</i> | 31-May-2024 | 1383 |
| <i>Vitis riparia</i> | 31-May-2024 | 1382 |
| <i>Allium canadense</i> var. <i>canadense</i> | 10-Jun-2024 | 1389 |
| <i>Carex conoidea</i> | 10-Jun-2024 | 1388 |
| <i>Carex pellita</i> | 10-Jun-2024 | 1395 |
| <i>Carex seorsa</i> | 10-Jun-2024 | 1391 |
| <i>Carex vulpinoidea</i> | 10-Jun-2024 | 1387 |
| <i>Danthonia compressa</i> | 10-Jun-2024 | 1394 |
| <i>Eleocharis erythropoda</i> | 10-Jun-2024 | 1397 |
| <i>Festuca subverticillata</i> | 10-Jun-2024 | 1393 |
| <i>Lotus corniculatus</i> | 10-Jun-2024 | 135 |
| <i>Penstemon digitalis</i> | 10-Jun-2024 | 136 |
| <i>Poa palustris</i> | 10-Jun-2024 | 1396 |
| <i>Populus heterophylla</i> | 10-Jun-2024 | 1390 |
| <i>Rumex crispus</i> | 10-Jun-2024 | 16451 |
| <i>Sassafras albidum</i> | 10-Jun-2024 | 1392 |
| <i>Vicia cracca</i> | 10-Jun-2024 | 137 |

Appendix III: Trailside Herbarium Index 15-Jun-24

| Family | Botanical Name | Collection |
|----------------|---|------------|
| ADOXACEAE | <i>Sambucus racemosa</i> | 829 |
| ADOXACEAE | <i>Viburnum dilatatum</i> | 737 |
| ADOXACEAE | <i>Viburnum lentago</i> | 925 |
| ADOXACEAE | <i>Viburnum opulus</i> var. <i>opulus</i> | 926 |
| ALISMATACEAE | <i>Sagittaria latifolia</i> | 16414 |
| AMARYLLIDACEAE | <i>Allium tricoccum</i> | 7 |
| ANACARDIACEAE | <i>Toxicodendron vernix</i> | 16434 |
| APIACEAE | <i>Sanicula canadensis</i> var. <i>canadensis</i> | 1090 |
| APIACEAE | <i>Sium suave</i> | 16399 |
| APIACEAE | <i>Zizia aurea</i> | 923 |
| APOCYNACEAE | <i>Apocynum cannabinum</i> | 1008 |
| APOCYNACEAE | <i>Asclepias syriaca</i> | 1013 |
| APOCYNACEAE | <i>Asclepias tuberosa</i> | 1036 |
| APOCYNACEAE | <i>Vincetoxicum nigrum</i> | 50 |
| AQUIFOLIACEAE | <i>Ilex verticillata</i> | 16265 |
| AQUIFOLIACEAE | <i>Ilex verticillata</i> | 791 |
| ARACEAE | <i>Arisaema triphyllum</i> | 8 |
| ARACEAE | <i>Lemna minor</i> | 1242 |
| ARACEAE | <i>Symplocarpus foetidus</i> | 11 |
| ARALIACEAE | <i>Panax trifolius</i> | 830 |
| ARALIACEAE | <i>Panax trifolius</i> | 826 |
| ASCLEPIADACEAE | <i>Asclepias incarnata</i> | 16372 |
| ASPARAGACEAE | <i>Maianthemum canadense</i> | 16284 |
| ASPLENIACEAE | <i>Asplenium platyneuron</i> | 620 |
| ASTERACEAE | <i>Achillea millefolium</i> | 16351 |
| ASTERACEAE | <i>Ageratina altissima</i> | 660 |
| ASTERACEAE | <i>Ambrosia artemisiifolia</i> | 673 |
| ASTERACEAE | <i>Ambrosia artemisiifolia</i> | 566 |
| ASTERACEAE | <i>Anaphalis margaritacea</i> | 16232 |
| ASTERACEAE | <i>Antennaria parlinii</i> ssp. <i>fallax</i> | 846 |
| ASTERACEAE | <i>Artemisia vulgaris</i> | 1220 |
| ASTERACEAE | <i>Bidens connata</i> | 1180 |
| ASTERACEAE | <i>Bidens connata</i> | 16423 |
| ASTERACEAE | <i>Bidens laevis</i> | 16258 |
| ASTERACEAE | <i>Centaurea stoebe</i> ssp. <i>micranthos</i> | 58 |
| ASTERACEAE | <i>Doellingeria umbellata</i> | 16251 |
| ASTERACEAE | <i>Erigeron canadensis</i> var. <i>canadensis</i> | 683 |
| ASTERACEAE | <i>Erigeron pulchellus</i> var. <i>pulchellus</i> | 919 |
| ASTERACEAE | <i>Eurybia divaricata</i> | 608 |
| ASTERACEAE | <i>Euthamia graminifolia</i> | 1093 |
| ASTERACEAE | <i>Eutrochium fistulosum</i> | 1146 |
| ASTERACEAE | <i>Helianthus decapetalus</i> | 16384 |
| ASTERACEAE | <i>Heliopsis helianthoides</i> | 16356 |
| ASTERACEAE | <i>Hieracium gronovii</i> | 723 |
| ASTERACEAE | <i>Hieracium paniculatum</i> | 604 |
| ASTERACEAE | <i>Ionactis linariifolia</i> | 679 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|---------------|---|-------|
| ASTERACEAE | <i>Krigia biflora</i> | 915 |
| ASTERACEAE | <i>Krigia virginica</i> | 1048 |
| ASTERACEAE | <i>Lactuca canadensis</i> | 1069 |
| ASTERACEAE | <i>Mikania scandens</i> | 1105 |
| ASTERACEAE | <i>Nabalus altissimus</i> | 697 |
| ASTERACEAE | <i>Oclemena acuminata</i> | 1194 |
| ASTERACEAE | <i>Packera aurea</i> | 879 |
| ASTERACEAE | <i>Pilosella ceaspitosa</i> | 918 |
| ASTERACEAE | <i>Solidago altissima</i> ssp. <i>altissima</i> | 1221 |
| ASTERACEAE | <i>Solidago bicolor</i> | 580 |
| ASTERACEAE | <i>Solidago caesia</i> var. <i>caesia</i> | 658 |
| ASTERACEAE | <i>Solidago canadensis</i> var. <i>canadensis</i> | 1096 |
| ASTERACEAE | <i>Solidago juncea</i> | 1272 |
| ASTERACEAE | <i>Solidago nemoralis</i> | 16236 |
| ASTERACEAE | <i>Solidago nemoralis</i> ssp. <i>nemoralis</i> | 576 |
| ASTERACEAE | <i>Solidago odora</i> | 646 |
| ASTERACEAE | <i>Solidago patula</i> | 1216 |
| ASTERACEAE | <i>Solidago puberula</i> | 1253 |
| ASTERACEAE | <i>Solidago rugosa</i> var. <i>aspera</i> | 570 |
| ASTERACEAE | <i>Solidago sempervirens</i> | 1241 |
| ASTERACEAE | <i>Solidago speciosa</i> | 718 |
| ASTERACEAE | <i>Symphyotrichum cordifolium</i> | 81 |
| ASTERACEAE | <i>Symphyotrichum ericoides</i> | 16244 |
| ASTERACEAE | <i>Symphyotrichum ericoides</i> | 16252 |
| ASTERACEAE | <i>Symphyotrichum lanceolatum</i> var. <i>lanceolatum</i> | 710 |
| ASTERACEAE | <i>Symphyotrichum lateriflorum</i> | 16267 |
| ASTERACEAE | <i>Symphyotrichum novi-belgii</i> var. <i>novi-belgii</i> | 701 |
| ASTERACEAE | <i>Symphyotrichum patens</i> var. <i>patens</i> | 562 |
| ASTERACEAE | <i>Symphyotrichum pilosum</i> var. <i>pringlei</i> | 671 |
| ASTERACEAE | <i>Symphyotrichum pilosum</i> var. <i>pringlei</i> | 624 |
| ASTERACEAE | <i>Symphyotrichum puniceum</i> | 16437 |
| ASTERACEAE | <i>Symphyotrichum puniceum</i> var. <i>puniceum</i> | 1265 |
| ASTERACEAE | <i>Symphyotrichum puniceum</i> var. <i>puniceum</i> | 1215 |
| ASTERACEAE | <i>Vernonia noveboracensis</i> | 1095 |
| ATHYRIACEAE | <i>Athyrium angustum</i> | 77 |
| ATHYRIACEAE | <i>Athyrium filix-femina</i> | 16295 |
| BALSAMINACEAE | <i>Impatiens capensis</i> | 64 |
| BERBERIDACEAE | <i>Berberis thunbergii</i> | 9 |
| BERBERIDACEAE | <i>Caulophyllum thalictroides</i> | 5 |
| BETULACEAE | <i>Alnus serrulata</i> | 16246 |
| BETULACEAE | <i>Alnus serrulata</i> | 16269 |
| BETULACEAE | <i>Betula alleghaniensis</i> | 16401 |
| BETULACEAE | <i>Betula populifolia</i> | 66 |
| BETULACEAE | <i>Betula populifolia</i> | 836 |
| BETULACEAE | <i>Betula populifolia</i> | 16287 |
| BETULACEAE | <i>Carpinus caroliniana</i> | 16276 |
| BETULACEAE | <i>Carpinus caroliniana</i> | 16370 |
| BETULACEAE | <i>Corylus americana</i> | 808 |
| BETULACEAE | <i>Corylus cornuta</i> ssp. <i>cornuta</i> | 819 |
| BRASSICACEAE | <i>Arabidopsis thaliana</i> | 837 |

Flora of Ward Pound Ridge Reservation
Seventh Quarterly Report
March 16 – June 15, 2024

| | | |
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| BRASSICACEAE | <i>Cardamine diphylla</i> | 828 |
| BRASSICACEAE | <i>Cardamine hirsuta</i> | 807 |
| BRASSICACEAE | <i>Cardamine hirsuta</i> | 16272 |
| BRASSICACEAE | <i>Cardamine parviflora</i> | 883 |
| BRASSICACEAE | <i>Cardamine pennsylvanica</i> | 890 |
| BRASSICACEAE | <i>Draba verna</i> | 806 |
| BRASSICACEAE | <i>Lepidium virginicum</i> ssp. <i>virginicum</i> | 982 |
| BRASSICACEAE | <i>Rorippa palustris</i> ssp. <i>palustris</i> | 777 |
| BRASSICACEAE | <i>Rorippa palustris</i> ssp. <i>palustris</i> | 767 |
| CAMPANULACEAE | <i>Lobelia cardinalis</i> | 1110 |
| CAMPANULACEAE | <i>Lobelia inflata</i> | 784 |
| CAMPANULACEAE | <i>Lobelia siphilitica</i> var. <i>siphilitica</i> | 1143 |
| CAMPANULACEAE | <i>Lobelia spicata</i> var. <i>spicata</i> | 1009 |
| CAMPANULACEAE | <i>Palustricodon aparinoides</i> | 1044 |
| CAPRIFOLIACEAE | <i>Lonicera morrowii</i> | 880 |
| CARYOPHYLLACEAE | <i>Arenaria serpyllifolia</i> | 1077 |
| CARYOPHYLLACEAE | <i>Cerastium semidecandrum</i> | 16306 |
| CARYOPHYLLACEAE | <i>Claytonia virginica</i> | 16278 |
| CARYOPHYLLACEAE | <i>Dianthus armeria</i> ssp. <i>armeria</i> | 677 |
| CARYOPHYLLACEAE | <i>Moehringia lateriflora</i> | 922 |
| CARYOPHYLLACEAE | <i>Palustricodon aparinoides</i> | 16375 |
| CARYOPHYLLACEAE | <i>Scleranthus annuus</i> ssp. <i>annuus</i> | 1049 |
| CARYOPHYLLACEAE | <i>Silene antirrhina</i> | 60 |
| CARYOPHYLLACEAE | <i>Stellaria aquatica</i> | 16312 |
| CARYOPHYLLACEAE | <i>Stellaria graminea</i> | 924 |
| CELASTRACEAE | <i>Euonymus alatus</i> | 703 |
| CERATOPHYLLACEAE | <i>Ceratophyllum demersum</i> | 16439 |
| CISTACEAE | <i>Crocanthemum bicknellii</i> | 67 |
| CISTACEAE | <i>Crocanthemum canadense</i> | 16243 |
| CISTACEAE | <i>Crocanthemum canadense</i> | 644 |
| CISTACEAE | <i>Lechea minor</i> | 1195 |
| CISTACEAE | <i>Lechea mucronata</i> | 1289 |
| CISTACEAE | <i>Lechea mucronata</i> | 622 |
| CISTACEAE | <i>Lechea racemulosa</i> | 638 |
| CLETHRACEAE | <i>Clethra alnifolia</i> | 1165 |
| COLCHICACEAE | <i>Uvularia perfoliata</i> | 16285 |
| COMMELINACEAE | <i>Commelina communis</i> | 1139 |
| CORNACEAE | <i>Cornus amomum</i> ssp. <i>amomum</i> | 993 |
| CORNACEAE | <i>Cornus florida</i> | 849 |
| CORNACEAE | <i>Cornus racemosa</i> | 975 |
| CUPRESSACEAE | <i>Juniperus virginiana</i> var. <i>virginiana</i> | 1016 |
| CYPERACEAE | <i>Carex albicans</i> | 882 |
| CYPERACEAE | <i>Carex annectens</i> | 16359 |
| CYPERACEAE | <i>Carex brevior</i> | 986 |
| CYPERACEAE | <i>Carex bushii</i> | 985 |
| CYPERACEAE | <i>Carex communis</i> var. <i>communis</i> | 833 |
| CYPERACEAE | <i>Carex comosa</i> | 1166 |
| CYPERACEAE | <i>Carex crinita</i> var. <i>crinita</i> | 999 |
| CYPERACEAE | <i>Carex debilis</i> var. <i>debilis</i> | 1040 |
| CYPERACEAE | <i>Carex debilis</i> var. <i>rudgei</i> | 892 |

Flora of Ward Pound Ridge Reservation
Seventh Quarterly Report
March 16 – June 15, 2024

| | | |
|------------------|--|-------|
| CYPERACEAE | <i>Carex digitalis</i> var. <i>digitalis</i> | 953 |
| CYPERACEAE | <i>Carex echinata</i> ssp. <i>echinata</i> | 949 |
| CYPERACEAE | <i>Carex gracillima</i> | 916 |
| CYPERACEAE | <i>Carex interior</i> | 888 |
| CYPERACEAE | <i>Carex intumescens</i> | 957 |
| CYPERACEAE | <i>Carex laxiculmis</i> var. <i>laxiculmis</i> | 948 |
| CYPERACEAE | <i>Carex laxiflora</i> | 954 |
| CYPERACEAE | <i>Carex lupuliformis</i> | 1162 |
| CYPERACEAE | <i>Carex lupulina</i> | 731 |
| CYPERACEAE | <i>Carex lupulina</i> | 793 |
| CYPERACEAE | <i>Carex muehlenbergii</i> var. <i>muehlenbergii</i> | 981 |
| CYPERACEAE | <i>Carex muehlenbergii</i> var. <i>muehlenbergii</i> | 1076 |
| CYPERACEAE | <i>Carex pennsylvanica</i> | 884 |
| CYPERACEAE | <i>Carex scoparia</i> | 1039 |
| CYPERACEAE | <i>Carex swanii</i> | 950 |
| CYPERACEAE | <i>Carex virescens</i> | 952 |
| CYPERACEAE | <i>Cyperus bipartitus</i> | 1145 |
| CYPERACEAE | <i>Cyperus bipartitus</i> | 759 |
| CYPERACEAE | <i>Cyperus brevifolioides</i> | 754 |
| CYPERACEAE | <i>Cyperus lupulinus</i> ssp. <i>macilentus</i> | 625 |
| CYPERACEAE | <i>Cyperus lupulinus</i> ssp. <i>macilentus</i> | 572 |
| CYPERACEAE | <i>Cyperus strigosus</i> | 1182 |
| CYPERACEAE | <i>Dulichium arundinaceum</i> var. <i>arundinaceum</i> | 765 |
| CYPERACEAE | <i>Eleocharis obtusa</i> var. <i>obtusa</i> | 751 |
| CYPERACEAE | <i>Eleocharis obtusa</i> var. <i>obtusa</i> | 727 |
| CYPERACEAE | <i>Rhynchospora capitellata</i> | 739 |
| CYPERACEAE | <i>Schoenoplectus tabernaemontani</i> | 998 |
| CYPERACEAE | <i>Scirpus cyperinus</i> | 729 |
| CYPERACEAE | <i>Scirpus expansus</i> | 1091 |
| CYPERACEAE | <i>Scirpus hattorianus</i> | 1002 |
| DENNSTAEDTIACEAE | <i>Dennstaedtia punctilobula</i> | 592 |
| DIOSCOREACEAE | <i>Dioscorea villosa</i> | 996 |
| DRYOPTERIDACEAE | <i>Dryopteris intermedia</i> | 775 |
| DRYOPTERIDACEAE | <i>Dryopteris marginalis</i> | 602 |
| DRYOPTERIDACEAE | <i>Polystichum acrostichoides</i> | 695 |
| DRYOPTERIDACEAE | <i>Polystichum acrostichoides</i> | 16297 |
| ELAEAGNACEAE | <i>Elaeagnus umbellata</i> | 586 |
| EQUISETACEAE | <i>Equisetum arvense</i> | 16271 |
| EQUISETACEAE | <i>Equisetum hyemale</i> ssp. <i>affine</i> | 574 |
| ERICACEAE | <i>Chimaphila maculata</i> | 594 |
| ERICACEAE | <i>Gaylussacia baccata</i> | 895 |
| ERICACEAE | <i>Hypopitys monotropa</i> | 1183 |
| ERICACEAE | <i>Kalmia latifolia</i> | 636 |
| ERICACEAE | <i>Lyonia ligustrina</i> var. <i>ligustrina</i> | 978 |
| ERICACEAE | <i>Lyonia ligustrina</i> var. <i>ligustrina</i> | 707 |
| ERICACEAE | <i>Pyrola elliptica</i> | 61 |
| ERICACEAE | <i>Rhododendron viscosum</i> | 1001 |
| ERICACEAE | <i>Vaccinium corymbosum</i> | 16283 |
| ERICACEAE | <i>Vaccinium pallidum</i> | 16282 |
| ERICACEAE | <i>Vaccinium stamineum</i> | 588 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|------------------|---|-------|
| EUPHORBIACEAE | <i>Acalypha rhomboidea</i> | 1142 |
| EUPHORBIACEAE | <i>Euphorbia maculata</i> | 57 |
| EUPHORBIACEAE | <i>Euphorbia nutans</i> | 1246 |
| FABACEAE | <i>Amphicarpaea bracteata</i> | 1167 |
| FABACEAE | <i>Apios americana</i> | 1099 |
| FABACEAE | <i>Chamaecrista nictitans</i> var. <i>nictitans</i> | 564 |
| FABACEAE | <i>Crotalaria sagittalis</i> | 1159 |
| FABACEAE | <i>Desmodium marilandicum</i> | 16394 |
| FABACEAE | <i>Desmodium marilandicum</i> | 612 |
| FABACEAE | <i>Hylodesmum glutinosum</i> | 1089 |
| FABACEAE | <i>Lespedeza capitata</i> | 681 |
| FABACEAE | <i>Lespedeza cuneata</i> | 629 |
| FABACEAE | <i>Lespedeza procumbens</i> | 640 |
| FABACEAE | <i>Lespedeza violacea</i> | 16242 |
| FABACEAE | <i>Lespedeza violacea</i> | 578 |
| FABACEAE | <i>Medicago lupulina</i> | 1140 |
| FABACEAE | <i>Securigera varia</i> | 16357 |
| FABACEAE | <i>Trifolium arvense</i> | 1149 |
| FABACEAE | <i>Trifolium pratense</i> | 51 |
| FABACEAE | <i>Trifolium repens</i> | 1035 |
| FAGACEAE | <i>Quercus alba</i> | 16368 |
| FAGACEAE | <i>Quercus coccinea</i> | 16289 |
| FAGACEAE | <i>Quercus ilicifolia</i> | 16293 |
| FAGACEAE | <i>Quercus montana</i> | 16418 |
| FAGACEAE | <i>Quercus palustris</i> | 16281 |
| FAGACEAE | <i>Quercus rubra</i> | 848 |
| FAGACEAE | <i>Quercus velutina</i> | 16360 |
| HAMAMELIDACEAE | <i>Hamamelis virginiana</i> | 634 |
| HYDROCHARITACEAE | <i>Elodea canadensis</i> | 16438 |
| HYPERICACEAE | <i>Hypericum mutilum</i> | 16254 |
| HYPERICACEAE | <i>Hypericum perforatum</i> ssp. <i>perforatum</i> | 1034 |
| HYPOXIDACEAE | <i>Hypoxis hirsuta</i> | 894 |
| IRIDACEAE | <i>Iris versicolor</i> | 16299 |
| JUGLANDACEAE | <i>Carya ovata</i> | 16371 |
| JUGLANDACEAE | <i>Juglans nigra</i> | 1255 |
| JUNCACEAE | <i>Juncus effusus</i> ssp. <i>solutus</i> | 1000 |
| JUNCACEAE | <i>Juncus marginatus</i> | 1144 |
| JUNCAEAE | <i>Juncus acuminatus</i> | 750 |
| JUNCAEAE | <i>Juncus canadensis</i> | 797 |
| JUNCAEAE | <i>Juncus tenuis</i> | 796 |
| JUNCAEAE | <i>Juncus tenuis</i> | 763 |
| JUNCAEAE | <i>Luzula multiflora</i> ssp. <i>multiflora</i> | 885 |
| LAMIACEAE | <i>Clinopodium vulgare</i> | 1037 |
| LAMIACEAE | <i>Lycopus uniflorus</i> | 1269 |
| LAMIACEAE | <i>Lycopus virginicus</i> | 16248 |
| LAMIACEAE | <i>Mentha arvensis</i> | 16257 |
| LAMIACEAE | <i>Mentha spicata</i> ssp. <i>spicata</i> | 1109 |
| LAMIACEAE | <i>Prunella vulgaris</i> ssp. <i>lanceolata</i> | 59 |
| LAMIACEAE | <i>Pycnanthemum tenuifolium</i> | 1141 |
| LAMIACEAE | <i>Pycnanthemum virginianum</i> | 16245 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|----------------|---|-------|
| LAMIACEAE | <i>Trichostema dichotomum</i> | 1160 |
| LAMIACEAE | <i>Trichostema dichotomum</i> | 618 |
| LAURACEAE | <i>Lindera benzoin</i> | 1164 |
| LAURACEAE | <i>Lindera benzoin</i> | 16275 |
| LILIACEAE | <i>Erythronium americanum</i> | 16279 |
| LILIACEAE | <i>Medeola virginiana</i> | 955 |
| LYCOPODIACEAE | <i>Dendrolycopodium obscurum</i> | 590 |
| LYCOPODIACEAE | <i>Diphasiastrum digitatum</i> | 16233 |
| LYCOPODIACEAE | <i>Diphasiastrum tristachyum</i> | 1097 |
| LYCOPODIACEAE | <i>Lycopodium clavatum</i> | 1098 |
| MALVACEAE | <i>Hibiscus moscheutos</i> ssp. <i>moscheutos</i> | 1106 |
| MELANTHIACEAE | <i>Trillium erectum</i> | 827 |
| MOLLUGINACEAE | <i>Mollugo verticillata</i> | 689 |
| MYRICACEAE | <i>Comptonia peregrina</i> | 631 |
| MYRICACEAE | <i>Morella caroliniensis</i> | 1161 |
| OLEACEAE | <i>Ligustrum obtusifolium</i> var. <i>obtusifolium</i> | 745 |
| ONAGRACEAE | <i>Circaea canadensis</i> | 16369 |
| ONAGRACEAE | <i>Epilobium coloratum</i> | 16255 |
| ONOCLEACEAE | <i>Onoclea sensibilis</i> | 1094 |
| ONOCLEACEAE | <i>Onoclea sensibilis</i> | 16296 |
| OROBANCHACEAE | <i>Epifagus virginiana</i> | 1177 |
| OROBANCHACEAE | <i>Melampyrum lineare</i> | 951 |
| OROBANCHACEAE | <i>Pedicularis canadensis</i> | 898 |
| OSMUNDACEAE | <i>Osmunda spectabilis</i> | 16302 |
| OSMUNDACEAE | <i>Osmundastrum cinnamomeum</i> | 16294 |
| OXALIDACEAE | <i>Oxalis stricta</i> | 1226 |
| PAPAVERACEAE | <i>Capnoides sempervirens</i> | 896 |
| PAPAVERACEAE | <i>Dicentra cucullaria</i> | 824 |
| PAPAVERACEAE | <i>Sanguinaria canadensis</i> | 823 |
| PENTHORACEAE | <i>Penthorum sedoides</i> | 16263 |
| PENTHORACEAE | <i>Penthorum sedoides</i> | 16264 |
| PHYTOLACCACEAE | <i>Phytolacca americana</i> var. <i>americana</i> | 1222 |
| PINACEAE | <i>Pinus resinosa</i> | 16292 |
| PINACEAE | <i>Pinus strobus</i> | 1297 |
| PINACEAE | <i>Tsuga canadensis</i> | 1298 |
| PLANTAGINACEAE | <i>Callitriche palustris</i> | 1163 |
| PLANTAGINACEAE | <i>Chelone glabra</i> | 1266 |
| PLANTAGINACEAE | <i>Linaria canadensis</i> | 1047 |
| PLANTAGINACEAE | <i>Linaria canadensis</i> | 979 |
| PLANTAGINACEAE | <i>Linaria vulgaris</i> | 49 |
| PLANTAGINACEAE | <i>Plantago lanceolata</i> | 1051 |
| PLANTAGINACEAE | <i>Plantago major</i> | 55 |
| PLANTAGINACEAE | <i>Plantago rugelii</i> | 56 |
| PLANTAGINACEAE | <i>Veronica arvensis</i> | 842 |
| PLANTAGINACEAE | <i>Veronica serpyllifolia</i> ssp. <i>serpyllifolia</i> | 843 |
| POACEAE | <i>Agrostis canina</i> | 16373 |
| POACEAE | <i>Agrostis capillaris</i> | 16253 |
| POACEAE | <i>Agrostis capillaris</i> | 16310 |
| POACEAE | <i>Agrostis capillaris</i> | 16311 |
| POACEAE | <i>Agrostis gigantea</i> | 1052 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|---------|---|-------|
| POACEAE | <i>Agrostis gigantea</i> | 1033 |
| POACEAE | <i>Agrostis gigantea</i> | 16379 |
| POACEAE | <i>Agrostis gigantea</i> | 16440 |
| POACEAE | <i>Agrostis gigantea</i> | 598 |
| POACEAE | <i>Agrostis hyemalis</i> | 16388 |
| POACEAE | <i>Agrostis hyemalis</i> | 16389 |
| POACEAE | <i>Agrostis scabra</i> | 16378 |
| POACEAE | <i>Andropogon gerardi</i> | 80 |
| POACEAE | <i>Andropogon gerardi</i> | 1243 |
| POACEAE | <i>Andropogon virginicus</i> var. <i>virginicus</i> | 741 |
| POACEAE | <i>Anthoxanthum odoratum</i> | 841 |
| POACEAE | <i>Arrhenatherum elatius</i> ssp. <i>elatius</i> | 920 |
| POACEAE | <i>Brachyelytrum erectum</i> | 16266 |
| POACEAE | <i>Bromus inermis</i> | 1011 |
| POACEAE | <i>Calamagrostis canadensis</i> | 16314 |
| POACEAE | <i>Cenchrus longispinus</i> | 614 |
| POACEAE | <i>Cenchrus purpurascens</i> | 1244 |
| POACEAE | <i>Cinna arundinacea</i> | 16415 |
| POACEAE | <i>Cinna arundinacea</i> | 16391 |
| POACEAE | <i>Cinna latifolia</i> | 16387 |
| POACEAE | <i>Cinna latifolia</i> | 16393 |
| POACEAE | <i>Cinna latifolia</i> | 16397 |
| POACEAE | <i>Danthonia spicata</i> | 16419 |
| POACEAE | <i>Dichanthelium clandestinum</i> | 16304 |
| POACEAE | <i>Dichanthelium columbianum</i> | 1193 |
| POACEAE | <i>Dichanthelium dichotomum</i> | 16309 |
| POACEAE | <i>Dichanthelium latifolium</i> | 956 |
| POACEAE | <i>Dichanthelium oligosanthos</i> ssp. <i>scribnerianum</i> | 1078 |
| POACEAE | <i>Dichanthelium sphaerocarpon</i> | 1038 |
| POACEAE | <i>Dichanthelium sphaerocarpon</i> | 650 |
| POACEAE | <i>Digitaria ciliaris</i> | 16421 |
| POACEAE | <i>Digitaria ischaemum</i> | 675 |
| POACEAE | <i>Digitaria sanguinalis</i> | 16417 |
| POACEAE | <i>Echinochloa crus-galli</i> | 1178 |
| POACEAE | <i>Echinochloa crus-galli</i> | 16262 |
| POACEAE | <i>Echinochloa crus-galli</i> | 16390 |
| POACEAE | <i>Eleusine indica</i> | 735 |
| POACEAE | <i>Elymus canadensis</i> var. <i>canadensis</i> | 1217 |
| POACEAE | <i>Elymus repens</i> | 1014 |
| POACEAE | <i>Elymus riparius</i> | 16400 |
| POACEAE | <i>Elymus virginicus</i> | 16392 |
| POACEAE | <i>Elymus virginicus</i> var. <i>virginicus</i> | 610 |
| POACEAE | <i>Eragrostis cilianensis</i> | 1247 |
| POACEAE | <i>Eragrostis pectinacea</i> | 1046 |
| POACEAE | <i>Eragrostis spectabilis</i> | 16234 |
| POACEAE | <i>Festuca subverticillata</i> | 947 |
| POACEAE | <i>Festuca trachyphylla</i> | 980 |
| POACEAE | <i>Festuca trachyphylla</i> | 900 |
| POACEAE | <i>Festuca trachyphylla</i> | 16307 |
| POACEAE | <i>Festuca trachyphylla</i> | 16308 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

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| POACEAE | <i>Festuca trachyphylla</i> | 16374 |
| POACEAE | <i>Festuca trachyphylla</i> | 16381 |
| POACEAE | <i>Glyceria striata</i> | 958 |
| POACEAE | <i>Leersia oryzoides</i> | 1179 |
| POACEAE | <i>Leersia virginica</i> | 1073 |
| POACEAE | <i>Leersia virginica</i> | 16386 |
| POACEAE | <i>Microstegium vimineum</i> | 662 |
| POACEAE | <i>Muhlenbergia sobolifera</i> | 606 |
| POACEAE | <i>Panicum dichotomiflorum</i> | 16261 |
| POACEAE | <i>Panicum virgatum</i> | 1219 |
| POACEAE | <i>Paspalum laeve</i> | 665 |
| POACEAE | <i>Paspalum setaceum</i> var. <i>muhlenbergii</i> | 568 |
| POACEAE | <i>Phleum pratense</i> ssp. <i>pratense</i> | 1012 |
| POACEAE | <i>Phragmites australis</i> | 687 |
| POACEAE | <i>Piptochaetium avenaceum</i> | 959 |
| POACEAE | <i>Poa annua</i> | 1192 |
| POACEAE | <i>Poa compressa</i> | 1075 |
| POACEAE | <i>Poa palustris</i> | 16380 |
| POACEAE | <i>Poa pratensis</i> | 893 |
| POACEAE | <i>Poa pratensis</i> ssp. <i>pratensis</i> | 984 |
| POACEAE | <i>Schizachyrium scoparium</i> var. <i>scoparium</i> | 627 |
| POACEAE | <i>Setaria faberi</i> | 1224 |
| POACEAE | <i>Setaria pumila</i> ssp. <i>pumila</i> | 714 |
| POACEAE | <i>Setaria viridis</i> var. <i>viridis</i> | 1148 |
| POACEAE | <i>Sorghastrum nutans</i> | 16395 |
| POACEAE | <i>Sorghastrum nutans</i> | 584 |
| POACEAE | <i>Sphenopholis obtusata</i> | 16313 |
| POACEAE | <i>Tridens flavus</i> | 16396 |
| POACEAE | <i>Tridens flavus</i> var. <i>flavus</i> | 685 |
| POACEAE | <i>Tripsacum dactyloides</i> var. <i>dactyloides</i> | 1218 |
| POLEMONIACEAE | <i>Phlox paniculata</i> | 78 |
| POLYGONACEAE | <i>Fallopia scandens</i> | 1147 |
| POLYGONACEAE | <i>Persicaria arifolia</i> | 16241 |
| POLYGONACEAE | <i>Persicaria extremiorientalis</i> | 1245 |
| POLYGONACEAE | <i>Persicaria hydropiper</i> | 16238 |
| POLYGONACEAE | <i>Persicaria hydropiperoides</i> | 16420 |
| POLYGONACEAE | <i>Persicaria hydropiperoides</i> | 16422 |
| POLYGONACEAE | <i>Persicaria longiseta</i> | 16416 |
| POLYGONACEAE | <i>Persicaria longiseta</i> | 16424 |
| POLYGONACEAE | <i>Persicaria perfoliata</i> | 1223 |
| POLYGONACEAE | <i>Persicaria perfoliata</i> | 16382 |
| POLYGONACEAE | <i>Persicaria robustior</i> | 16237 |
| POLYGONACEAE | <i>Persicaria robustior</i> | 16240 |
| POLYGONACEAE | <i>Persicaria robustior</i> | 16247 |
| POLYGONACEAE | <i>Persicaria robustior</i> | 16385 |
| POLYGONACEAE | <i>Persicaria robustior</i> | 16398 |
| POLYGONACEAE | <i>Persicaria sagittata</i> | 16383 |
| POLYGONACEAE | <i>Persicaria virginiana</i> | 62 |
| POLYGONACEAE | <i>Polygonum tenue</i> | 16235 |
| POLYGONACEAE | <i>Polygonum tenue</i> | 616 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|---------------|--|-------|
| POLYGONACEAE | <i>Rumex acetosella</i> | 16353 |
| POLYGONACEAE | <i>Rumex acetosella</i> ssp. <i>pyrenaicus</i> | 983 |
| POLYPODIACEAE | <i>Polypodium virginianum</i> | 600 |
| PRIMULACEAE | <i>Lysimachia nummularia</i> | 16303 |
| PRIMULACEAE | <i>Lysimachia quadrifolia</i> | 16350 |
| PRIMULACEAE | <i>Lysimachia terrestris</i> | 16376 |
| PRIMULACEAE | <i>Samolus valerandi</i> | 760 |
| PYROLACEAE | <i>Pyrola americana</i> | 16403 |
| RANUNCULACEAE | <i>Anemone quinquefolia</i> | 16277 |
| RANUNCULACEAE | <i>Caltha palustris</i> | 821 |
| RANUNCULACEAE | <i>Clematis virginiana</i> | 705 |
| RANUNCULACEAE | <i>Ficaria verna</i> | 16270 |
| RANUNCULACEAE | <i>Ranunculus acris</i> | 881 |
| RANUNCULACEAE | <i>Ranunculus bulbosus</i> | 899 |
| RANUNCULACEAE | <i>Thalictrum pubescens</i> | 1042 |
| RANUNCULACEAE | <i>Thalictrum thalictroides</i> | 847 |
| RHAMNACEAE | <i>Frangula alnus</i> | 1092 |
| RHAMNACEAE | <i>Frangula alnus</i> | 994 |
| ROSACEAE | <i>Agrimonia gryposepala</i> | 63 |
| ROSACEAE | <i>Amelanchier canadensis</i> | 16280 |
| ROSACEAE | <i>Amelanchier laevis</i> | 16290 |
| ROSACEAE | <i>Aronia melanocarpa</i> | 1103 |
| ROSACEAE | <i>Fragaria virginiana</i> | 845 |
| ROSACEAE | <i>Malus toringo</i> | 582 |
| ROSACEAE | <i>Photinia villosa</i> | 716 |
| ROSACEAE | <i>Potentilla recta</i> | 52 |
| ROSACEAE | <i>Potentilla simplex</i> | 917 |
| ROSACEAE | <i>Prunus serotina</i> | 16288 |
| ROSACEAE | <i>Rosa carolina</i> ssp. <i>carolina</i> | 699 |
| ROSACEAE | <i>Rosa multiflora</i> | 976 |
| ROSACEAE | <i>Rosa palustris</i> | 1045 |
| ROSACEAE | <i>Rosa palustris</i> | 725 |
| ROSACEAE | <i>Rosa virginiana</i> | 721 |
| ROSACEAE | <i>Rubus hispidus</i> | 995 |
| ROSACEAE | <i>Rubus hispidus</i> | 16352 |
| ROSACEAE | <i>Rubus occidentalis</i> | 1010 |
| ROSACEAE | <i>Rubus pensilvanicus</i> | 1070 |
| ROSACEAE | <i>Spiraea alba</i> var. <i>latifolia</i> | 16249 |
| ROSACEAE | <i>Spiraea tomentosa</i> | 16250 |
| RUBIACEAE | <i>Cephalanthus occidentalis</i> | 1104 |
| RUBIACEAE | <i>Galium album</i> | 712 |
| RUBIACEAE | <i>Galium aparine</i> | 16305 |
| RUBIACEAE | <i>Galium asprellum</i> | 16259 |
| RUBIACEAE | <i>Galium circaezans</i> | 1254 |
| RUBIACEAE | <i>Galium labradoricum</i> | 16256 |
| RUBIACEAE | <i>Galium labradoricum</i> | 771 |
| RUBIACEAE | <i>Galium lanceolatum</i> | 960 |
| RUBIACEAE | <i>Galium lanceolatum</i> | 16268 |
| RUBIACEAE | <i>Galium palustre</i> | 1041 |
| RUBIACEAE | <i>Galium tinctorium</i> | 1196 |

Flora of Ward Pound Ridge Reservation
 Seventh Quarterly Report
 March 16 – June 15, 2024

| | | |
|------------------|--|-------|
| RUBIACEAE | <i>Galium tinctorium</i> | 65 |
| RUBIACEAE | <i>Galium triflorum</i> | 1072 |
| RUBIACEAE | <i>Hexasepalum teres</i> | 1158 |
| RUBIACEAE | <i>Mitchella repens</i> | 596 |
| SALICACEAE | <i>Salix cinerea</i> ssp. <i>oleifolia</i> | 835 |
| SAPINDACEAE | <i>Acer nigrum</i> | 16355 |
| SAPINDACEAE | <i>Acer rubrum</i> | 16291 |
| SAPINDACEAE | <i>Acer rubrum</i> var. <i>rubrum</i> | 831 |
| SAPINDACEAE | <i>Acer saccharum</i> | 832 |
| SAXIFRAGACEAE | <i>Chrysosplenium americanum</i> | 822 |
| SAXIFRAGACEAE | <i>Micranthes pensylvanica</i> | 921 |
| SAXIFRAGACEAE | <i>Micranthes virginensis</i> | 6 |
| SELAGINELLACEAE | <i>Selaginella apoda</i> | 16260 |
| SMILACEAE | <i>Smilax glauca</i> | 795 |
| SMILACEAE | <i>Smilax rotundifolia</i> | 782 |
| SOLANACEAE | <i>Solanum carolinense</i> | 16354 |
| SOLANACEAE | <i>Solanum emulans</i> | 1291 |
| THELYPTERIDACEAE | <i>Thelypteris noveboracensis</i> | 16402 |
| THELYPTERIDACEAE | <i>Thelypteris palustris</i> | 16377 |
| THELYPTERIDACEAE | <i>Thelypteris palustris</i> var. <i>pubescens</i> | 652 |
| TYPHACEAE | <i>Sparganium americanum</i> | 1268 |
| TYPHACEAE | <i>Sparganium eurycarpum</i> | 16315 |
| TYPHACEAE | <i>Typha latifolia</i> | 1043 |
| ULMACEAE | <i>Ulmus</i> | 16274 |
| URTICACEAE | <i>Laportea canadensis</i> | 691 |
| URTICACEAE | <i>Pilea fontana</i> | 1181 |
| URTICACEAE | <i>Pilea pumila</i> var. <i>pumila</i> | 693 |
| VERBENACEAE | <i>Verbena hastata</i> | 747 |
| VERBENACEAE | <i>Verbena urticifolia</i> | 1225 |
| VERBENACEAE | <i>Verbena urticifolia</i> | 16358 |
| VIBURNACEAE | <i>Viburnum acerifolium</i> | 1108 |
| VIBURNACEAE | <i>Sambucus nigra</i> ssp. <i>canadensis</i> | 997 |
| VIBURNACEAE | <i>Viburnum dentatum</i> var. <i>lucidum</i> | 1107 |
| VIOLACEAE | <i>Viola blanda</i> | 891 |
| VIOLACEAE | <i>Viola cucullata</i> | 887 |
| VIOLACEAE | <i>Viola cucullata</i> | 656 |
| VIOLACEAE | <i>Viola cucullata</i> | 16286 |
| VIOLACEAE | <i>Viola cucullata</i> | 16300 |
| VIOLACEAE | <i>Viola fimbriatula</i> | 844 |
| VIOLACEAE | <i>Viola fimbriatula</i> | 1050 |
| VIOLACEAE | <i>Viola labradorica</i> | 840 |
| VIOLACEAE | <i>Viola miniscula</i> | 889 |
| VIOLACEAE | <i>Viola miniscula</i> | 886 |
| VIOLACEAE | <i>Viola sororia</i> | 825 |
| VITACEAE | <i>Ampelopsis glandulosa</i> | 79 |
| VITACEAE | <i>Parthenocissus quinquefolia</i> | 1054 |
| VITACEAE | <i>Vitis labrusca</i> | 1053 |
| VITACEAE | <i>Vitis labrusca</i> | 977 |
| WOODSIACEAE | <i>Woodsia obtusa</i> ssp. <i>obtusa</i> | 1290 |