

# **Flora of Ward Pound Ridge Reservation**

## **Eighth Quarterly Report**

June 16 – September 15, 2024

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October 19, 2024

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 eighth quarterly report of the Flora Project covering the period of June 16 through September 15, 2024. We gratefully acknowledge the financial support of the Friends, and hope that our results surpass your expectations.

This quarter was crucial to our study, as it was the height of the growing season in the second of our three years of study. We revisited areas of special interest, and gradually expanded the distances we traveled to cover new ground. With the assistance of Taro letaka we were able to gain parking access in the southwestern area of the park. This access point has enabled us to spend greater amounts of time studying key areas in the vicinity of Spy Rock, Dancing Rock, and the Stone Hill River.

It has been especially rewarding to conduct fieldwork in the 55-acre marsh fed by the Stone Hill River. This marsh has been deepened by a beaver dam and supports an abundant and diverse population of aquatic plants and organisms, including the White Waterlily featured on the cover. These communities of aquatic plants are key in this ecosystem as they provide nutrients and habitat for countless insects and aquatic invertebrates, which are food for freshwater crustaceans, fish and amphibians that in turn support a rookery of Great Blue Herons, Otters and other wildlife. This incredible ecosystem is just one of the unique and functional habitats that demonstrate successful conservation at Ward Pound Ridge Reservation.

In consideration of the objectives of the Flora Project, during this three-month period of the growing season we collected 139 plant specimens at over forty locations throughout the Ward Pound Ridge Reservation and traveled over twenty miles of trails during fourteen days of field study. We documented three rare plant species, and ten plants that are the first specimen records from Westchester County.

As the next quarter brings us to the close of our second season of study, we will continue to employ the highest scientific standards as we work towards our goals - to identify and document every plant species currently growing on the Reserve as well as plant communities of conservation importance and concern. We hope that you agree that we are making significant progress towards these goals. We are thankful for your generous support.

Respectfully Yours,

Patricia Butter

# Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

## Table of Contents

Objective	2
Materials and Methods	2
Specimen Collections	3
Notable Collections	4
iNaturalist Observations	6
Research and Collaborations	6
Project Photos	8
Appendix I: Map and List of Plant Specimen Collection Sites	
Appendix II: Plant Specimen Collection Data	

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 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, Jocelyn Lucente, Charlotte Brennan, and Molly Hickey.

### **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, Jocelyn Lucente Samantha Cronk, Yajaira Ramos, Charlotte Brennan, Molly Hickey, and Madison Rosenbaum 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, Maxwell Sabety, Mark Horton-Sacha, Margaret Holen, David Coulson, and Lydia Paradiso.

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 Ward Pound Ridge Reservation'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.

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 2024

An additional duplicate of each specimen will be contributed to the New York State Museum, where the 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, from June 16 through September 15<sup>th</sup>, one hundred and thirty nine plant specimens and data were collected at over forty locations in WPRR (see Appendix I for a map and complete list of collections), in chronological order:

- The Stone Hill River Swamp and adjacent woodlands
- The Compost Area
- The meadow between Reservation and Boutonville Roads
- The Stone Hill River wetlands, adjacent woodlands and talus slopes
- Near Raven Rocks
- The meadows north of the Cross River.
- Deer Hollow Trail
- The Gravel Pit
- The Waccabuc River
- The meadows along Michigan Road
- The Cross River near Kimberly Bridge
- The white trail to Leatherman's Loop
- The blue trail along the wetland and over the Cross River Mountain.
- The marsh at Michigan Road
- Spy Rock
- The Powerline cut
- The Stone Hill River swamp
- The southwestern wetlands of the Stone Hill River
- The meadows east of Bergfield
- The Yellow Trail



Patty Butter and Mark Horton-Sacha collecting aquatic plants in the Stone Hill River marsh on July 28, 2024. Photo credit: Michael Gambino

**Specimen Collections: 139.** The specimen names and the associated data will be recorded in a shared spreadsheet (see Appendix II for the complete list).

- Three rare plant species were documented with specimen records.
- Ten plants collected were the first records of the species from Westchester County.
- Nine plants collected are ranked NY S4, apparently secure.

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 2024



A colorful community of aquatic plants observed in the Stone Hill River marsh on 28 July, 2024 includes the bright yellow flowers of a floating carnivorous plant, Greater Bladderwort, *Utricularia vulgaris* ssp. *macrorhiza*, NY S4, together with three new county records: the red foliage of Mosquito Fern (*Azolla cristata*), SNR, green Common Duckmeal (*Spirodela polyrhiza*), NY S5, and Brazilian Watermeal (*Wolffia brasiliensis*), NY S5. Photo: P. Butter



A Flowering American Chestnut (*Castanea dentata*) NY S4, ICUN red list critically endangered, was discovered by Daniel Atha growing at the base of a talus slope adjacent to the Stone Hill River marsh on 23 June, 2024. Photo: P. Butter

### Notable collections:

NY S1 = critically endangered  
NY S2 = threatened  
NY S3 = rare

- Brazilian Watermeal (*Wolffia brasiliensis*), NY S4, first record from Westchester County, collected from Stone Hill River swamp.
- Common Duckmeal (*Spirodela polyrhiza*), NY S5, first record from Westchester County, collected from Stone Hill River swamp.

NY S4 = apparently secure  
NY S5 = secure  
SNR = not yet ranked

- Mosquito Fern (*Azolla cristata*), SNR, first record from Westchester County, collected from Stone Hill River swamp.
- Staghorn Sumac (*Rhus typhina*), NY S5, first record from Westchester County, collected at the Stone Hill River swamp.

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 2024

### Notable collections (cont.):

- Pale Swallowwort (*Vincetoxicum rossicum*), Naturalized, first record from Westchester County, collected from the meadow between Reservation and Boutonville roads.
- Slender Manna Grass (*Glyceria melicaria*), NY S5, first record from Westchester County, collected from the Stone Hill River wetlands.
- American Chestnut (*Castanea americana*), NY S4, ICUN red list critically endangered, collected in flower from the woodlands adjacent to the Stone Hill River marsh.
- Maidenhair Spleenwort (*Asplenium trichomanes* ssp. *trichomanes*), NY S4, collected from a rock ledge off of the white trail.
- Mackay's Fragile Fern (*Cystopteris tenuis*), NY S4, collected from a rock ledge off of the white trail.
- Downy Agrimony (*Agrimonia pubescens*), NY S4, collected from along the blue trail.
- Allegheny Vine (*Adlumia fungosa*), NY S4, collected from along the blue trail.
- Virginia Snakeroot (*Endodeca serpentaria*), NY S2, collected from the Utility Right-of-way
- Carpenter's Square (*Scrophularia marilandica*), NY S4, collected from the Rock Trail.
- Glandular Dodder (*Cuscuta obtusiflora* var. *glandulosa*), NY S1S2, first record from Westchester County, collected from the southwestern wetlands of the Stone Hill River.
- Chinese Crab Apple (*Malus prunifolia*), Naturalized first record from Westchester County, collected from the shrubland at Michigan Road.
- Siberian Crab Apple (*Malus baccata*), Naturalized, first record from Westchester County, collected from the shrubland at Michigan Road.
- Red-Rooted Flatsedge (*Cyperus erythrorhizos*), NY S4, collected from the Cross River.
- Broad-flowered Common Dodder (*Cuscuta gronovii* var. *latiflora*), NY S3, first record from Westchester County, collected from the banks of the Cross River.
- Virginia Screwstem (*Bartonia virginica*), NY S4, collected from the Michigan River wetland.

One of the plants that we were hoping to locate at Ward Pound Ridge was Virginia Screwstem (*Bartonia virginica*) NY S4. There is a voucher of this plant in the herbarium of the New York Botanical Garden collected in 1909 by Delia Marble, a botanist and one of the founders of the Trailside Museum, from "a swamp near Bedford". While it is unclear if that swamp was located in WPRR, it was close enough for us to consider the species possibly historical. It was thrilling to rediscover *Bartonia virginica* in the Red Maple swamp at Michigan Road on 12 September 2024, 115 years after Miss Marble collected her specimen.

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 2024



Virginia Screwstem (*Bartonia virginica*) NY S4, collected from near the Michigan Road marsh, 12 Sept. 2024



Virginia Screwstem (*Bartonia virginica*) collected by Delia Marble from “a swamp near Bedford”, 19 July 1909

### iNaturalist observations: 507

#### Notable observations:

- Small Green Wood Orchid (*Platanthera clavellata*), NY S4, two plants were observed in flower, not collected due to scarcity, found in area of Stone Hill River.
- Downy Yellow False Foxglove (*Aureolaria virginica*), NY S5, but locally rare, not collected due to scarcity, 3 plants were observed in woodlands along brown trail.
- Field Bead Grass (*Paspalum leave*), NY S3, the third location of this plant documented in the park, not collected due to small population size.
- Sharpwing Monkey Flower (*Mimulus alatus*), NY S4, a single plant was observed, not collected due to scarcity, found in the area of the Cross River.

**Research and Collaborations:** Notable accomplished items included: Reporting rare plant observations to the New York Natural Heritage Program for *Paspalum laeve*, *Endodeca serpentaria*, *Cuscuta obtusiflora* var. *glandulosa*, and *Cuscuta gronovii* var. *latiflora*.

We have met with James Lendemmer, the curator of the New York State Herbarium. He is leading an effort with a cohort of herbaria to publish a report on the State of Herbaria in New York State. This data will then be utilized to raise funding from the National Science Foundation for imaging and digitization

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 2024

of the collections. Imaging and digitization of the Ward Pound Ridge Herbarium would make the collections accessible to scientists and the public through the website Symbiota.org, enabling remote study of the collections. In order to facilitate participation in this effort, we have registered the Ward Pound Ridge herbarium under the acronym WPR with the Index Herbariorum, a worldwide index of herbaria. In the coming months we will be reporting on the size and composition of the WPR herbarium collection as contributors to the report, *The State of New York's Herbaria* coordinated by the New York State Museum.

In summary, one of the goals of the Flora Project is to identify and document plant communities of conservation importance and concern. This study is advancing scientific knowledge of our flora at county, state and regional levels. The Ward Pound Ridge Reservation is widely regarded as 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 217 hours of labor this quarter. As in previous years, the next quarter will be dedicated to completing the season's fieldwork, labeling and mounting of specimens.

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

# Flora of Ward Pound Ridge Reservation

## Eighth Quarterly Report

16 June –15 September 2024



First row from left: Great Spangled Fritillary, *Argynnis cybele* visiting Field Thistle, *Cirsium discolor*; Thunberg's Geranium, *Geranium thunbergia*; Canada Lily, *Lilium canadense*.

Second row from left: Rattlesnake Mannagrass, *Glyceria canadensis*; Virginia Marsh St. John's-Wort, *Hypericum virginicum*; Variegated Yellow Pond-Lily, *Nuphar variegata*.

Third row from left: Late Purple Aster, *Symphyotrichum patens*; Partridge Pea, *Chamaecrista fasciculata*; Red Trillium, *Trillium erectum*.

Fourth row from left: Swamp Rose Mallow, *Hibiscus moscheutos*; Whorled Milkwort, *Senega verticillata*; Common Arrowhead, *Sagittaria latifolia*.

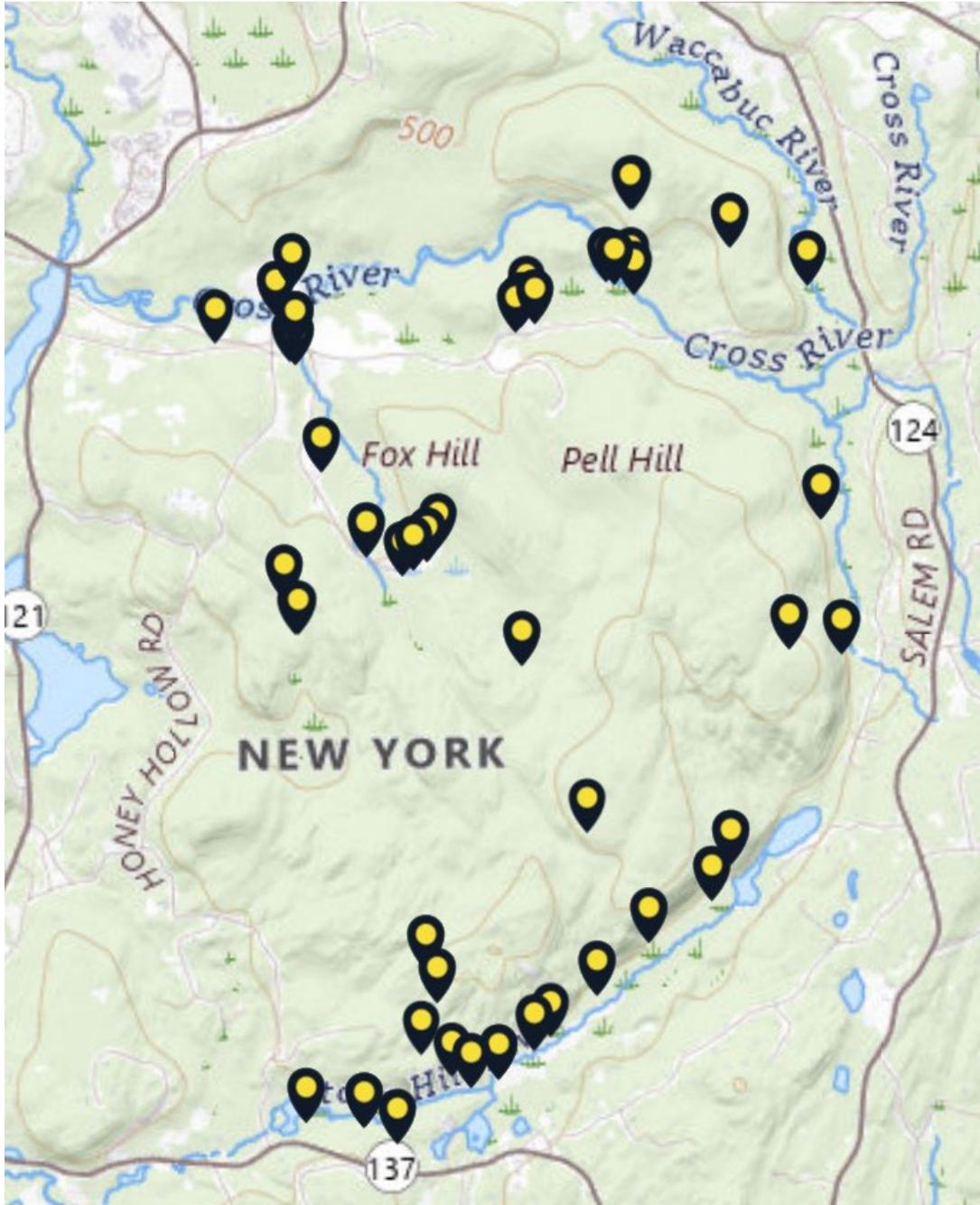
Photos by: Patricia Butter, Devon Cummings and Molly Hickey.

# Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

## Appendix I: Map of Ward Pound Ridge Reservation Plant Specimen Collection Sites 16 June – 15 September 2024



See lists of species collected below.

# Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

\* = first record from Westchester County

NY S1 = critically endangered

NY S2 = threatened

NY S3 = rare

NY S4 = apparently secure

NY S5 = secure

SNR = not yet ranked

## **Collected on June 19, 2024, Stone Hill River Swamp and adjacent woodlands**

Collector: Patricia Butter

*Utricularia vulgaris* ssp. *macrorhiza*

*Wolffia brasiliensis*\* NY S4

*Spirodela polyrhiza*\*

*Elodea canadensis*

*Ceratophyllum demersum*

*Azolla cristata*\*

*Rhus typhina*\*

*Carex cristatella*

*Dichanthelium columbianum*

*Carex lacustris*

*Elymus hystrix* var. *hystrix*

*Bromus pubescens*

*Sphenopholis intermedia*

## **Collected on June 19, 2024, Compost Area**

Collector: Patricia Butter

*Juncus tenuis*

*Polygala verticillata*

*Melilotus albus*

*Verbascum blattaria*

## **Collected on June 19, 2024, Meadow between Reservation and Boutonville**

### **Roads**

Collector: Patricia Butter

*Vincetoxicum rossicum*\*

## **Collected on June 23, 2024, Stone Hill River wetlands and adjacent woodlands and talus slopes**

Collectors: Patricia Butter and Daniel Atha

*Riccia fluitans*

*Juncus acuminatus*

*Rubus allegheniensis*

*Danthonia spicata*

*Glyceria melicaria*\*

## Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

*Dryopteris cristata*

*Geranium robertianum*

*Dichanthelium*

*Luzula*

*Rhus coccinifera*

*Rhododendron viscosum*

*Castanea americana* NY S4, ICUN red list, critically endangered

### **Collected on July 4, 2024, Meadows north of the Cross River**

Collector: Patricia Butter

*Rhynchospora capitellata*

*Eleocharis erythropoda*

*Cicuta maculata* var. *maculata*

*Rudbeckia hirta*

*Lilium canadense*

*Hemerocallis fulva*

*Tilia americana* var. *americana*

### **Collected on July 7, 2024, Deer Hollow Trail, Gravel Pit and Waccabuc River**

Collector: Patricia Butter

*Alisma subcordatum*

*Pontederia cordata*

*Verbascum thaspus*

*Trifolium aureum*

*Erigeron strigosus*

*Persicaria robustior*

*Gaylussacia baccata*

*Vaccinium pallidum*

*Dichanthelium boscii*

### **Collected on July 10, 2024, Michigan Road meadows, Cross River near Kimberly Bridge**

Collectors: Patricia Butter, Daniel Atha, Devon Cummings

*Rubus phoenicolasius*

*Saponaria officinalis*

*Scirpus atrovirens*

*Glyceria canadensis*

*Gratiola neglecta*

*Scutellaria lateriflora*

*Prunella lanceolata*

*Tradescantia*

*Heliopsis helianthoides*

## Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

### Collected on July 13, 2024, White Trail to Leatherman's Loop

Collector: Patricia Butter

*Asplenium trichomanes* ssp. *trichomanes* NY S4

*Cystopteris tenuis* NY S4

*Quercus rubra*

*Vaccinium pallidum*

### Collected on July 24, 2024, Blue Trail along wetland and over Cross River Mountain

Collectors: Patricia Butter, Devon Cummings, Daniel Atha

*Leersia virginica*

*Patis racemosa*

*Sericocarpus asteroides*

*Dryopteris carthusiana*

*Agrimonia pubescens* NY S4

*Adlumia fungosa* NY S4

*Actaea*

*Carya*

### Collected on July 27, 2024, Michigan Road

Collector: Patricia Butter

*Malus toringo*

*Rhus copallinum* var. *latifolia*

### Collected on July 28, 2024, Stone Hill River Swamp

Collectors: Patricia Butter, Devon Cummings

*Carex lurida*

*Ludwigia alternifolia*

*Adiantum pedatum*

*Sphagnum*

*Hydrocotyle americana*

*Hypericum virginicum*

*Utricularia vulgaris* ssp. *macrorhiza*

*Nuphar variegata*

*Agrostis perennans*

*Eleocharis acicularis*

*Nymphaea odorata* ssp. *odorata*

### Collected on August 10, 2024, Spy Rock and Utility Right of Way

Collectors: Patricia Butter, Daniel Atha, Devon Cummings

*Desmodium paniculatum*

*Phegopteris hexagonoptera*

*Liriodendron tulipifera*

*Calystegia sepium*

## Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

*Endodeca serpentaria* NY S2  
*Scrophularia marilandica* NY S4  
*Viburnum sieboldii*  
*Geranium*  
*Lactuca*  
*Dryopteris carthusiana*  
*Helianthus divaricatus*

### **Collected on August 21, 2024, southwestern wetlands of Stone Hill River**

Collectors: Patricia Butter, Daniel Atha, Devon Cummings

*Carya cordiformis*  
*Alnus serrulata*  
*Cuscuta obtusiflora* var. *glandulosa*\* NY S1S2  
*Erechtites hieracifolius* var. *hieracifolius*  
*Eutrochium dubium*  
*Lythrum salicaria*  
*Digitalis purpurea*  
*Rumex obtusifolia*  
*Scutellaria lateriflora*  
*Persicaria punctata*  
*Lycopus*  
*Larix europeaus*

### **Collected on August 25, 2024, Compost Area and Michigan Road**

Collector: Patricia Butter

*Chenopodium album*  
*Lysimachia arvensis*  
*Aronia prunifolia*  
*Hieracium scabrum*  
*Malus toringo*  
*Malus prunifolia*\*  
*Malus baccata*\*  
*Muhlenbergia schreberi*  
*Oenothera biennis*  
*Cirsium discolor*  
*Portulaca oleracea*  
*Cyperus microiria*  
*Cenchrus longispinus*  
*Reynoutria japonica* var. *japonica*  
*Sporobolus vaginiflorus* var. *vaginiflorus*

## Flora of Ward Pound Ridge Reservation

Eighth Quarterly Report

16 June –15 September 2024

### Collected on September 4, 2024, Compost Area, Meadows east of Bergfield,

#### Cross River

Collectors: Patricia Butter, Devon Cummings

*Cyperus erythrorhizos* NY S4

*Cuscuta gronovii* var. *latiflora*\* NY S3

*Cicuta bulbifera*

*Lindernia dubia* var. *dubia*

*Echinochloa walteri*

*Amphicarpaea bracteata*

*Cichorium intybus*

*Alnus incana* ssp. *rugosa*

*Panicum capillare* ssp. *capillare*

*Chamaecrista fasciculata* var. *fasciculata*

*Cirsium vulgare*

*Carya tomentosa*

*Euphorbia maculata*

### Collected on September 12, 2024, Michigan Road, Yellow Trail

Collectors: Patricia Butter, Daniel Atha, Devon Cummings

*Convallaria majalis* ssp. *majalis*

*Thuja occidentalis*

*Malus*

*Epilobium leptophyllum*

*Salix cinerea* ssp. *oleifolia*

*Epilobium leptophyllum*

*Bartonia virginica* NY S4

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

Botanical Name	Collection Date	Collection Number
<i>Utricularia vulgaris</i> ssp. <i>macrorhiza</i>	19-Jun-2024	1415
<i>Wolffia brasiliensis</i>	19-Jun-2024	1414
<i>Spirodela polyrhiza</i>	19-Jun-2024	1413
<i>Elodea canadensis</i>	19-Jun-2024	1412
<i>Ceratophyllum demersum</i>	19-Jun-2024	1411
<i>Azolla cristata</i>	19-Jun-2024	1410
<i>Rhus typhina</i>	19-Jun-2024	1409
<i>Carex cristatella</i>	19-Jun-2024	1408
<i>Dichanthelium columbianum</i>	19-Jun-2024	1407
<i>Carex lacustris</i>	19-Jun-2024	1406
<i>Elymus hystrix</i> var. <i>hystrix</i>	19-Jun-2024	1405
<i>Bromus pubescens</i>	19-Jun-2024	1404
<i>Sphenopholis intermedia</i>	19-Jun-2024	1403
<i>Juncus tenuis</i>	19-Jun-2024	1402
<i>Polygala verticillata</i>	19-Jun-2024	1401
<i>Melilotus albus</i>	19-Jun-2024	1400
<i>Verbascum blattaria</i>	19-Jun-2024	1399
<i>Vincetoxicum rossicum</i>	19-Jun-2024	1398
<i>Riccia fluitans</i>	23-Jun-2024	1436
<i>Juncus acuminatus</i>	23-Jun-2024	1435
<i>Rubus allegheniensis</i>	23-Jun-2024	1434
<i>Danthonia spicata</i>	23-Jun-2024	1433
<i>Glyceria melicaria</i>	23-Jun-2024	1432
<i>Dryopteris cristata</i>	23-Jun-2024	1431
<i>Geranium robertianum</i>	23-Jun-2024	1430
<i>Dichanthelium</i>	23-Jun-2024	16452
Poaceae	23-Jun-2024	16453
<i>Luzula</i>	23-Jun-2024	16454
<i>Rhus coppalinum</i>	23-Jun-2024	16455
<i>Rhododendron viscosum</i>	23-Jun-2024	16456
<i>Castanea americana</i>	23-Jun-2024	16457
<i>Rhynchospora capitellata</i>	4-Jul-2024	1443
<i>Eleocharis erythropoda</i>	4-Jul-2024	1442
<i>Cicuta maculata</i> var. <i>maculata</i>	4-Jul-2024	1441
<i>Rudbeckia hirta</i>	4-Jul-2024	1440
<i>Lilium canadense</i>	4-Jul-2024	1439
<i>Hemerocallis fulva</i>	4-Jul-2024	1438
<i>Tilia americana</i> var. <i>americana</i>	4-Jul-2024	1437
<i>Alisma subcordatum</i>	7-Jul-2024	1452
<i>Pontederia cordata</i>	7-Jul-2024	1451
<i>Verbascum thaspus</i>	7-Jul-2024	1450
<i>Trifolium aureum</i>	7-Jul-2024	1449
<i>Erigeron strigosus</i>	7-Jul-2024	1448
<i>Persicaria robustior</i>	7-Jul-2024	1447
<i>Gaylussacia baccata</i>	7-Jul-2024	1446
<i>Vaccinium pallidum</i>	7-Jul-2024	1445

Flora of Ward Pound Ridge Reservation  
Eighth Quarterly Report  
16 June –15 September 2024

<i>Dichanthelium boscii</i>	7-Jul-2024	1444
<i>Rubus phoenicolasius</i>	10-Jul-2024	157
<i>Saponaria officinalis</i>	10-Jul-2024	156
<i>Scirpus atrovirens</i>	10-Jul-2024	1454
<i>Glyceria canadensis</i>	10-Jul-2024	1453
<i>Gratiola neglecta</i>	10-Jul-2024	16458
<i>Scutellaria lateriflora</i>	10-Jul-2024	16459
<i>Prunella lanceolata</i>	10-Jul-2024	16460
<i>Tradescantia</i>	10-Jul-2024	16461
<i>Heliopsis helianthoides</i>	10-Jul-2024	16462
<i>Asplenium trichomanes</i> ssp. <i>trichomanes</i>	13-Jul-2024	1458
<i>Cystopteris tenuis</i>	13-Jul-2024	1457
<i>Quercus rubra</i>	13-Jul-2024	1456
<i>Vaccinium pallidum</i>	13-Jul-2024	1455
<i>Leersia virginica</i>	24-Jul-2024	1460
<i>Patis racemosa</i>	24-Jul-2024	1459
<i>Sericocarpus asteroides</i>	24-Jul-2024	163
<i>Dryopteris carthusiana</i>	24-Jul-2024	162
<i>Agrimonia pubescens</i>	24-Jul-2024	161
<i>Adlumia fungosa</i>	24-Jul-2024	16463
<i>Actaea</i>	24-Jul-2024	16464
<i>Carya</i>	24-Jul-2024	16465
<i>Malus toringo</i>	27-Jul-2024	1467
<i>Rhus copallinum</i> var. <i>latifolia</i>	27-Jul-2024	1466
<i>Carex lurida</i>	28-Jul-2024	172
<i>Ludwigia alternifolia</i>	28-Jul-2024	171
<i>Adiantum pedatum</i>	28-Jul-2024	170
<i>Sphagnum</i>	28-Jul-2024	1475
<i>Hydrocotyle americana</i>	28-Jul-2024	1474
<i>Hypericum virginicum</i>	28-Jul-2024	1473
<i>Utricularia vulgaris</i> ssp. <i>macrorhiza</i>	28-Jul-2024	1472
<i>Nuphar variegata</i>	28-Jul-2024	1471
<i>Agrostis perennans</i>	28-Jul-2024	1470
<i>Eleocharis acicularis</i>	28-Jul-2024	1469
<i>Nymphaea odorata</i> ssp. <i>odorata</i>	28-Jul-2024	1468
<i>Desmodium paniculatum</i>	10-Aug-2024	177
<i>Phegopteris hexagonoptera</i>	10-Aug-2024	176
<i>Liriodendron tulipifera</i>	10-Aug-2024	175
<i>Calystegia sepium</i>	10-Aug-2024	174
<i>Endodeca serpentaria</i>	10-Aug-2024	1478
<i>Scrophularia marilandica</i>	10-Aug-2024	1477
<i>Viburnum sieboldii</i>	10-Aug-2024	1476
<i>Geranium</i>	10-Aug-2024	16467
<i>Lactuca</i>	10-Aug-2024	16468
<i>Dryopteris carthusiana</i>	10-Aug-2024	16469
<i>Helianthus divaricatus</i>	10-Aug-2024	16470
<i>Carya cordiformis</i>	21-Aug-2024	1482
<i>Alnus serrulata</i>	21-Aug-2024	1481
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	21-Aug-2024	1480
<i>Erechtites hieracifolius</i> var. <i>hieracifolius</i>	21-Aug-2024	186

Flora of Ward Pound Ridge Reservation  
Eighth Quarterly Report  
16 June –15 September 2024

<i>Eutrochium dubium</i>	21-Aug-2024	185
<i>Lythrum salicaria</i>	21-Aug-2024	184
<i>Digitalis purpurea</i>	21-Aug-2024	16471
<i>Rumex obtusifolia</i>	21-Aug-2024	16472
<i>Scutellaria lateriflora</i>	21-Aug-2024	16473
<i>Persicaria punctata</i>	21-Aug-2024	16474
<i>Lycopus</i>	21-Aug-2024	16475
<i>Larix europeus</i>	21-Aug-2024	16476
<i>Chenopodium album</i>	25-Aug-2024	1498
<i>Lysimachia arvensis</i>	25-Aug-2024	1497
<i>Aronia prunifolia</i>	25-Aug-2024	1496
<i>Hieracium scabrum</i>	25-Aug-2024	1495
<i>Malus toringo</i>	25-Aug-2024	1494
<i>Malus prunifolia</i>	25-Aug-2024	1493
<i>Malus baccata</i>	25-Aug-2024	1492
<i>Muhlenbergia schreberi</i>	25-Aug-2024	1491
<i>Oenothera biennis</i>	25-Aug-2024	1490
<i>Cirsium discolor</i>	25-Aug-2024	1489
<i>Portulaca oleracea</i>	25-Aug-2024	1488
<i>Cyperus microiria</i>	25-Aug-2024	1487
<i>Cenchrus longispinus</i>	25-Aug-2024	1486
<i>Reynoutria japonica</i> var. <i>japonica</i>	25-Aug-2024	1485
<i>Sporobolus vaginiflorus</i> var. <i>vaginiflorus</i>	25-Aug-2024	1484
<i>Cyperus erythrorhizos</i>	4-Sep-2024	1530
<i>Cuscuta gronovii</i> var. <i>latiflora</i>	4-Sep-2024	1529
<i>Cicuta bulbifera</i>	4-Sep-2024	1528
<i>Lindernia dubia</i> var. <i>dubia</i>	4-Sep-2024	1527
<i>Echinochloa walteri</i>	4-Sep-2024	1526
<i>Amphicarpaea bracteata</i>	4-Sep-2024	1525
<i>Cichorium intybus</i>	4-Sep-2024	1524
<i>Alnus incana</i> ssp. <i>rugosa</i>	4-Sep-2024	1523
<i>Panicum capillare</i> ssp. <i>capillare</i>	4-Sep-2024	1522
<i>Chamaecrista fasciculata</i> var. <i>fasciculata</i>	4-Sep-2024	194
<i>Cirsium vulgare</i>	4-Sep-2024	193
<i>Carya tomentosa</i>	4-Sep-2024	192
<i>Euphorbia maculata</i>	4-Sep-2024	191
<i>Convallaria majalis</i> ssp. <i>majalis</i>	12-Sep-2024	1539
<i>Thuja occidentalis</i>	12-Sep-2024	1538
<i>Malus</i>	12-Sep-2024	1537
<i>Epilobium leptophyllum</i>	12-Sep-2024	1536
<i>Salix cinerea</i> ssp. <i>oleifolia</i>	12-Sep-2024	1535
<i>Epilobium leptophyllum</i>	12-Sep-2024	1534
<i>Bartonia virginica</i>	12-Sep-2024	1533