A Floral Survey of Quadrants D2 and D3
of Greenwoods Conservancy

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INTRODUCTION

Greenwoods Conservancy, a thousand-acre property located in Burlington, New York, was placed under conservation easement by the Otsego Lake Trust. This easement allows the Biological Field Station to manage and research the "forever wild" area (Taylor, 1994). With the development of field laboratories, hiking trails and a road, Greenwoods is an ideal place to study and learn. The property includes the pristine 70-acre Cranberry Bog and its watershed, wetlands, forests, meadows, and many more communities - all with unique ecological value. During the summer of 1994 a preliminary floral survey was conducted of quadrants D2 and D3 around Cranberry Bog (Figure 1). This work is a taxonomic list of flora collected in that area.

METHODS AND MATERIALS

Vascular plant specimens were collected on July, 19, 20, 27, 29 and August 16. A group of two or more people surveyed areas, within the two quadrants, collecting as many different plant species as possible. Using plastic bags and carrying cases (vasculums), the specimens were kept in optimum condition until returning back to the field station. The plant specimens were then sorted and pressed using newspaper, blotter, cardboard, and wooden frames. They then were dried at 100°F, overnight, in an oven. After the plants were preserved, which is the purpose of drying, identification manuals were used to identify the specimens to family, genus, and species (Brown, 1979; Cobb, 1963; Fernald, 1950; Peterson, 1968; Petrides, 1986; Smith, 1966). They were then mounted on herbarium paper and kept on file for later reference.

RESULTS AND DISCUSSION

A total of 137 plant specimens were collected (Table 1). The specimens represent are indicative of at least two different types of major plant communities located in quadrants D2 and D3. There are deciduous forest and grassland. There is a meadow that was once used for farming. Black-eyed Susan, Ox-eye Daisy, and Timothy are a few of the common species that were found there. Bordering the meadow is a deciduous forest, this is indicated by the presence of Red Oak, Fire Cherry, and Sugar Maple. Across the road from the meadow the forest includes Yellow Birch, Red Maple, Sugar Maple, and Basswood. Throughout the two quadrants plant specimens like Indian Pipe, Red Raspberry, Lady Fern, and New York Fern are abundant. The area also contains a Hemlock bottom, typified by Eastern Hemlock. There are also at least two stages of succession occurring in quadrants D2 and D3, old fields and maturing forests. Within the outlined area there are more habitats which include a sphagnum bog, old fields, forests, and a pond.

Figure 1. Map of the Cranberry Bog region illustrating the study area (enclosed rectangle).
Table 1. The following is a taxonomic list of flora collected during this study in quadrants D2 and D3.

Date: 7/19/94
Location: Quadrant D3 - Field

I. Angiosperms
   A. Monocots
      Cyperaceae
         Carex scoparia
      Gramineae
         Calamagrostis canadensis
         Phleum pratense
      Iridaceae
         Sisyrinchium angustifolium
         Blue-joint
         Timothy
         Blue-eyed Grass

   B. Dicots
      Asclepiadaceae
         Asclepias syriaca
         Common Milkweed
      Caryophyllaceae
         Stellaria graminea
         Lesser Stitchwort
      Compositae
         Achillea millefolium
         Chrysanthemum leucanthemum
         Erigeron annuus
         Hieracium aurantiacum
         Rudbeckia hirta
         Solidago canadensis
         Vernonia noveboracensis
         Yarrow
         Ox-eye Daisy
         Daisy Fleabane
         Devil’s Paintbrush
         Black-eyed Susan
         Canada Goldenrod
         New York Ironweed
      Cruciferae Unknown #1
      Fagaceae
         Quercus rubra
         Red Oak
      Guttiferae
         Hypericum perforatum
         Common St. Johnswort
      Labiatae
         Agastache foeniculum
         Mentha arvensis
         Prunella vulgaris
         Wild Mint
         Heal-all
      Leguminosae
         Lotus corniculatus
         Trifolium agrarium
         Trifolium hybridum
         Birdfoot Trefoil
         Hop Clover
         Alsike Clover
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<thead>
<tr>
<th>Family</th>
<th>Genus/Species</th>
<th>Common Name</th>
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<td>Guttiferae</td>
<td>Hypericum perforatum</td>
<td>Common St. Johnswort</td>
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<td>Hypericum punctatum</td>
<td>Spotted St. Johnswort</td>
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<td>Labiatae</td>
<td>Lycopus virginicus</td>
<td>Bugleweed</td>
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<td>Scutellaria epilobiifolia</td>
<td>Common Skullcap</td>
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<td>Scutellaria lateriflora</td>
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<td>Onagraceae</td>
<td>Epilobium coloratum</td>
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<td>Epilobium glandulosum</td>
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<td>Arrow-leaved Tearthump</td>
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<td>Ranunculaceae</td>
<td>Thalictrum polygamum</td>
<td>Tall Meadow-rue</td>
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<td>Rosaceae</td>
<td>Agrimonia sp.</td>
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<td>Rubus occidentalis</td>
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<td>Spiraea latifolia</td>
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<td>Rubiaceae</td>
<td>Galium triflorum</td>
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<td>Mitchellia repens</td>
<td>Partridgeberry</td>
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II. Gymnospermae

Pinaceae
Pinus strobus
Tsuga canadensis

III. Angiospermae

A. Monocots

Cyperaceae
Carex lupulina
Carex lurida

Gramineae
Calamagrostis canadensis
Dactylinia spicata
Glyceria striata

Juncaceae
Juncus effusus

Liliaceae
Maianthemum canadense
Trillium sp.

Orchidaceae
Habenaria sp.

B. Dicots

Aceraceae
Acer saccharum

Balsaminaceae
Impatiens capensis

Caprifoliaceae
Viburnum acerifolium

Compositae
Aster acuminatus
Carduus crispus
Solidago altissima

Corylaceae
Betula lenta
Betula lutea

Ericaceae
Vaccinium myrtillus

Fagaceae
Quercus prinoides

"l1ite Pine
Eastern Hemlock

Blue-joint
Poverty Grass
Fowl Meadow Grass

Soft Rush

Lily-of-the-valley
Large-flowered Trillium

Orchis

Sugar Maple

Spotted Touch-Me-Not

Mapleleaf Viburnum

Whorled Wood Aster
Welted Thistle
Tall Goldenrod

Black Birch
Yellow Birch

Velvetleaf Blueberry

Dwarf Oak
Amaranthaceae
Amaranthus retroflexus  Green Amaranth

Balsaminaceae
Impatiens capensis  Spotted Touch-Me-Not

Campanulaceae
Campanula rapunculoides  Creeping Bellflower

Compositae
Arctium minus  Common Burdock
Aster divaricatus  White Wood Aster

Juglandaceae
Carya ovata  Shagbark Hickory

Labiatae
Mentha spicata  Spearmint
Scutellaria incana  Downy Skullcap

Oleaceae
Fraxinus americana  White Ash

Pyrolaceae
Pyroloella elliptica  Shinleaf

Ranunculaceae
Actaea pachypoda  White Baneberry

Rosaceae
Fragaria virginiana  Common Strawberry
Spiraea latifolia  Meadow sweet

Date: 8-16-94
Location: Quadrant D2 - Off the Green Trail

1. Pteridophytes

Lycopodiaceae
Lycopodium lucidulum  Shining Clubmoss
Lycopodium obscurum var. dendroideum  Tree Clubmoss

Polypodiaceae
Athyrium Filix-femina  Lady Fern
Onoclea sensibilis  Sensitive Fern
Polystichum acrostichoides  Christmas Fern
Thelypteris noveboracensis  New York Fern
Thelypteris palustris  Marsh Fern
Corylaceae
   Alnus rugosa          Speckled Alder
   Betula lenta          Black Birch

Fagaceae
   Quercus sp.           Oak

Oleaceae
   Fraxinus americana    White Ash

Rosaceae
   Potentilla canadensis  Dwarf Cinquefoil
   Pyrus coronaria       American Crabapple
   Rubus allegheniensis  Blackberry (flower)
   Rubus allegheniensis  Blackberry (fruit)
   Rubus idaeus          Red Raspberry
   Spiraea latifolia     Meadow-sweet

Vitaceae
   Vitis aestivalis      Summer Grape

Date: 7-29-94
Location: Quadrant D3 - Hardwood Forest

I. Pteridophytes

Polypodiaceae
   Polypodium canadense   Sensitive Fern
   Polystichum acrostichoides  Christmas Fern
   Thelypteris noveboracensis New York Fern
   Thelypteris palustris     Marsh Fern

II. Gymnosperms

Pinaceae
   Pinus resinosa        Red Pine
   Pinus strobus         White Pine
   Tsuga canadensis      Eastern Hemlock

III. Angiosperms

A. Monocots

Lillicieae
   Maianthemum canadense  Lily-of-the-valley

B. Dicots

Aceraceae
   Acer pensylvanicum    Striped Maple
   Acer saccharum        Sugar Maple
II. Angiosperms

A. Monocots

Cyperaceae
Carex lupulina

B. Dicots

Aceraceae
Acer saccharum
Sugar Maple

Oxalidaceae
Oxalis montana
Common Wood Sorrel

Primulaceae
Trientalis borealis
Star Flower

III. Gymnosperms

Pinaceae
Pinus strobus
White Pine

Date: 7-27-94
Location: Quadrant DJ - Hardwood Forest, along the road

I. Pteridophytes

Polypodiaceae
Pteridium aquilinum
Bracken Fern

II. Angiosperms

A. Dicots

Aceraceae
Acer rubrum
Red Maple

Aquifoliaceae
Ilex opaca
American Holly (aligna)

Caprifoliaceae
Sambucus canadensis
Common Elderberry
Viburnum recognitum
Northern Arrowhead

Celastraceae
Celastrus scandens
American Bittersweet

Compositae
Aster praealtus
Willow Aster
Solidago puberula
Downy Goldenrod
Solidago rugosa
Rough Stemmed Goldenrod
Vicia cracca
Oxalidaceae
   Oxalis europaea
   Oxalis ulropaea
Ranunculaceae
   Ranunculus ambigens
   Ranunculus pensylvanicus
Rosaceae
   Potentilla recta
   Prunus pensylvanicus
   Spiraea listfölia
Scrophulariaceae
   Linaria vulgaris

Date: 7-20-94
Location: Quadrant D2 - Green Trail

I. Pteridophytes
   Lycopodiaceae
      Lycopodium complanatum
      Lycopodium clavatum
      Lycopodium obscurum
      Athyrium Filix-femina
      Thelypteris noveboracensis
      Thelypteris palustris

II. Angiospermae
   A. Dicots
      Onagraceae
      Circaea quadrisulcata
      Pyrolaceae
      Monotropa uniflora
      Rosaceae
      Dalibarda repens
      Circaea quadrisulcata
      Red-Flowered Circaea
      Fire Cherry
      Bristly Buttercup
      Rough-Fruited Circaea
      Butter and Eggs

Date: 7-20-94
Location: Quadrant D3 - Green Trail

I. Pteridophytes
   Lycopodiaceae
   Lycopodium complanatum
   Running Pine
   Lycopodium clavatum
   Lycopodium obscurum
   Staghorn Clubmoss
   Princess Pine
   Athyrium Filix-femina
   Lady Fern
   Thelypteris noveboracensis
   New York Fern
   Thelypteris palustris
   Marsh Fern
REFERENCES


