CATALOGUE OF THE NIAGARA FLORA.

A CATALOGUE
OF THE
Flowering and Fern-Like Plants
GROWING WITHOUT CULTIVATION
IN THE
VICINITY OF THE FALLS OF NIAGARA.

THE TROY PRESS COMPANY, PRINTERS
1888.
With the Compliments of

ANDREW H. GREEN, Pres't,  JAMES MOONEY,
JOHN HODGE and JOHN M. BOWERS,
Commissioners of the State Reservation at Niagara.

HENRY E. GREGORY, Treasurer & Secretary,
214 BROADWAY, NEW YORK.
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Prepared at the Request of the Commissioners of the State Reservation at Niagara, by DAVID F. DAY.

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INTRODUCTION.

In December, 1886, the writer, in answer to the request of the Commissioners of the State Reservation at Niagara, promised to prepare for their use a catalogue of the plants growing upon the reservation and its vicinity. He had already on hand the record of his observations made in the neighborhood of the Falls, during a period of more than twenty years. But he well knew that in order to give to the promised catalogue, such a degree of accuracy and completeness as would make it of value to botanists and the public, it would be necessary to revise and renew his observations in the field. To this task, he devoted such leisure as was at his command during the year 1887. The results are presented in this Catalogue. Still he does not doubt that further investigations, made in the vicinity of the Falls, will considerably increase the number of species here recorded. In the more difficult genera of the Cyperaceae and Gramineae, demanding always in a large degree the skill of the specialist, there must be omissions, more or less numerous and important. Yet it is probable that no species, really characteristic of the flora of Niagara, has been overlooked.

To aid him in making the list complete, the writer has regarded it as his duty to consult, so far as was within his power, the observations made in the neighborhood of the Falls, by all other botanists. It is, however, a matter for great regret that references to the botany of the Falls, especially in the reports of the earlier explorers, have proved so few in number. It seems probable that Peter Kalm, the friend and correspondent of the great Linne, left some record of the botanical observations, which he made during his visit at Niagara, in the year 1750. But, the author has failed to find any mention of its publication, either in the Swedish tongue or in an English translation. If his journal still exists, its publication, at the present day, could not but be welcomed as an important contribution to the literature of American botany. It seems not unlikely that the species of Hypericum and Lobelia, which bear his name, were discovered by him near Table Rock.
It is to be doubted whether either the elder or the younger Michaux visited the neighborhood of the great cataract, and it is certain that the enterprising spirit of Pursh brought him no nearer than the site of the present city of Elmira. Nuttall, who botanized near the Falls sometime previous to the year 1818, mentions but one plant, _Utricularia cornuta_, as found by him in their vicinity. Torrey doubtless visited the region—possibly was familiar with it—yet, in his _Flora of the State of New York_, published in the year 1843, of the 1,511 species of plants, which he described, only fifteen are attributed to Niagara, and none of these, upon his own authority. In the _Flora of North America_, of Torrey and Gray, published in 1838-1842, Niagara is mentioned as a station only five times.

The labors of later botanists have been far more useful in the preparation of the list. The MS. journals of the Hon. George W. Clinton, while engaged in his arduous labors upon the botany of Buffalo and its vicinity, have proved of the greatest value; and the "_Flore Canadienne_" of Abbe Provancher and the "_Catalogue of Canadian Plants_" of Professor Macoun, the learned and indefatigable botanist of the Canadian Geological Survey, and the "_Canadian Filicinae_," the joint work of Professor Macoun and Dr. Burgess, of London, Ontario, have been of important service.

Wherever use has been made of these or of other authorities due acknowledgment of the obligation appears in the list.

The geology of Niagara Falls, as related to the flora, demands at this place some brief attention. On either side of the river, at a distance not very constant, glacial clays appear. At Clifton they form a considerable elevation. With them, in places, also appear the usual gravel drift of the same period. These make up the soil of the adjacent country. But, as Hall and Lyell long ago pointed out, the evidence is complete that the river once stood at a very considerable height above its present rocky boundaries. At Chippewa, in Prospect park and at other places, the gravel deposits of the river, made whilst it was occupying its higher level, are still to be seen. But before the river formed its present bed in the gorge below the cataract, it cut through and carried away some portion of its former deposit, leaving, as it subsided, a terrace, on either side, still easily traced. This gravel deposit, once extending continuously across the present river, covered all of what is now Goat Island. It is characterized by a great abundance of fresh-
water shells, of the genera *Unio*, *Melania*, *Lymnaea*, etc., identical in species with those still inhabiting the river. The vegetation of the island is that which might be expected to luxuriate upon a deep calcareous soil, enriched with an abundance of organic matter.

On either side of the river, following its course northerly, for a long distance, the same deposit is met with, alternating with patches from which it has been removed, and in which the underlying rock has but a scanty covering of soil. Near DeVaux College, and immediately above the Devil's Hole, near Lewiston, the rock is almost naked. Yet, even in such places, growing in the crevices of the rock or fringing the verge of the chasm, are to be found some of our most interesting plants. In some places, long since the chasm was excavated, the high rocky bank has given way, through the action of small streams of water, and perhaps by the operation of other causes, forming sheltered recesses of considerable extent, in which a rich humus has accumulated, supporting a dense growth of timber, and giving a congenial situation to some of our rarer plants. Among such places may be named the Devil's Hole, Foster's Flat, above Queenston, and the whirlpool wood, on the Canadian side.

The Niagara Escarpment, as it has been called by the geologists of the State of New York, known at Lewiston as the "Mountain" and in Canada as "Queenston Heights," presents some features entitled to notice in this place. At the point where the river makes its way through it, its height above Lake Ontario is 374 feet, and above Lake Erie, 32 feet. Though it presents a northerly exposure, yet among the plants, growing upon its talus and below, are a number which belong rather to the south and southwestward, and are much more abundant in Ohio than in Western New York. The fact may be explained by the higher annual temperature at Queenston and Lewiston and thence northward to Lake Ontario, than prevails at the Falls or immediately southward.

The flora of Goat Island presents few plants which may be called uncommon in Western New York. For the rarer plants, included in the Catalogue, other localities must be visited. But it is still true that Goat Island is very rich in the number of its species. Probably no tract of land in its vicinity, so restricted in area, can be found, exhibiting so large a number. Its vernal beauty is attributable, not merely to its variety of plants, conspicuous in flower, but also to the extraordinary abundance in which
they are produced. Yet it seems likely that there was a time, probably not long ago, when other species of plants, of great beauty, were common upon the island, but which are not now to be found there. It is hardly possible that several orchidaceous plants and our three native lilies did not once embellish its woods and grassy places. Within a little while the Harebell, (Companula rotundifolia, L.), has gone and the Grass of Parnassus, (Parnassia Carolina, L.), is fast going. This is undoubtedly due to careless flower-gatherers, who have plucked and pulled without stint or reason. The same fate awaits the Sanguinaria, the Diclytras and the Trilliums, which do so much to beautify the island, unless the wholesale spoliation is soon arrested.

The suggestion may here be made, with great propriety, that pains be taken to re-establish upon the island the attractive plants which it has lost. The effort would entail but little expense, its success would be entirely certain and to many the pleasure of a visit to the island would be greatly enhanced. It would surely be a step, and not an unimportant one, in restoring the island to the state in which nature left it.

Frequent reference has been made in the Catalogue to localities in the neighborhood of the Falls, but not within the boundaries of the Reservation. For this, however, there is a sufficient reason in the fact that if the Catalogue had been confined within the limits of the Reservation, it would have been of far less value to the many who are now interested in botanical science; and to them alone can such a work be of much interest or value. As already stated, some of the rarest plants of western New York and Ontario grow in the neighborhood of Niagara river, but not within the confines of the Reservation.

Thus, it may be mentioned that in the wooded grounds adjoining DeVaux College and belonging to that institution, there may be found Rhus aromatica, Ait., Liatris cylindracea, Michx., Aster ptarmicoides, T. & G., Asclepias quadrifolia, Jacq., and Morus rubra, L. Among its rocks, perhaps there may still be found a specimen of Pellea atropurpurea, Link., Camptosorus rhyzophyllus, Link., and Asplenium Trichomanes, L. The Devil's Hole, now almost inaccessible, was once a paradise of ferns—Phegopteris Dryopteris, Féé, being its chief rarity. The plateau of rock, which overlooks the ravine, produces Arabis hirsuta, Scop., and Selaginella ruprestis, Spreng., elsewhere in this region quite
uncommon. Between the “Mountain” and Lewiston, the explorer will find Ranunculus multifidus, Pursh. Xanthoxylum Americanum, Mill. Houstonia cerulea, L. and Asplenium ebeneum, Ait., rare plants in western New York. Queenston Heights have yielded us Anemonella thalictroides, Spach. Asimina triloba, Dunal, Lupinus perennis, L., Frasera Carolinensis, Walt. and Celtis occidentalis, L., — species scarcely found elsewhere in our vicinity. Of Foster’s Flat, above Queenston, it may be said that the spring seems to visit its rocky fastnesses some weeks earlier than the table-land above. Among its uncommon plants, it may be mentioned that Professor Macoun and Dr. Burgess have detected Aspidium Lonchites, Swartz, and Aspidium Bootii, Tuckm., — ferns whose accustomed range is a hundred miles northward. The woods near the whirlpool, on the Canadian side, produce in abundance Ceras- tium arvense, L., Arctostaphylos Ura-ursi, Spreng., Castilleia coccinea, Spreng., and the only sassafras trees known in the neighborhood of the Falls. The low land, near Clifton, on the Canadian side, only a few inches higher than the river, affords such uncommon plants as Gentiana serrata, Gunner, and Parnassia Carolina, Michx. Calamintha Nuttallii, Benth., still grows on the damp rocks, near the border of the river, and Gerardia purpurea, L., and Utricularia cornuta, Michx., appear sparingly in the wet and oozy soil near by.

In the preparation of this list, the practice has been followed, now almost universal, of indicating introduced plants, (which it will be seen are a large number) by giving their names in small capitals. The later changes in the nomenclature of the species have also been adopted, adding however, (in parentheses) the names under which they were described in the last edition of Gray’s Manual.

Of the 909 species of plants named in the Catalogue 758 are native and 151 foreign.

The following table exhibits, synoptically, the number of species and genera belonging to each natural family of plants mentioned in the Catalogue.
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CATALOGUE.

RANUNCULACEÆ.

   On the Canadian side, near Clifton, and elsewhere.

Anemone cylindrica, Gray......... Anemone. Wind Flower.
   Goat Island and elsewhere.

Anemone Virginiana, L ......... Anemone. Wind Flower.
   Goat Island and near DeVaux College.
   var. alba, Wood.
   Goat Island.

Anemone dichotoma, L. (A. Pennsylvanica, L.)
   Anemone. Wind Flower.
   Goat Island and elsewhere.

Anemone nemorosa, L............. Anemone. Wind Flower.
   Goat Island.
   var. quinquefolia, Gray.
   With the last.

Anemone Hepatica, L. (Hepatica triloba, Chaix.) ... Liverwort.
   Goat Island and near Lewiston. Rather rare.

Anemone acutiloba, Lawson. (Hepatica acutiloba, DC.)
   Liverwort.
   Goat Island and elsewhere. Less rare.

Anemonella thalictroides, Spach.
   (Thalictrum anemonoides, Michx.)
   Near Brock's Monument, ...t, Ontario.

Thalictrum dioicum, L ........... Meadow Rue.
   Goat Island, Lewiston and elsewhere.

Thalictrum Cornuti, L.
   Meadow Rue.
   Shores of the river above the Falls.

Thalictrum purpurascens, L ........ Meadow Rue.
   Near Clifton, Canada.
   var. ceriferum, Austin.
   "Near Drummondsville, Niagara Falls." Macoun.
Ranunculus aquatilis, L. ........................ Water Crowfoot.
  var. trichophyllus, Chaix.
  In pools above the falls on the Canadian side.

Ranunculus multifidus, Pursh  ................. Buttercup.
  In a pool not far from the river's bank, above Lewiston.

Ranunculus Flammula, L.  ...................... Spearwort.
  var. reptans, Meyer.
  At the water's edge on Strawberry and Grand Islands, and, probably, in similar situations nearer the Falls.

Ranunculus abortivus, L.
  Goat Island and elsewhere.

Ranunculus sceleratus, L. ................. Cursed Crowfoot.
  Lewiston, and near Suspension Bridge.

Ranunculus recurvatus, Poir ................. Hooked Crowfoot.
  Goat Island.

Ranunculus Pennsylvanicus, L. .............. Bristly Crowfoot.
  Clifton, Canada.

Ranunculus fascicularis, Muhl. ............... Early Buttercup.
  Near DeVaux College.

  Clifton, Canada. The large variety of R. repens, L. Common in western New York.

Ranunculus bulbosus, L. ........................ Buttercup.
  Goat Island. Introduced.

Ranunculus acris, L. .......................... Buttercup.
  Goat Island and elsewhere.

Caltha palustris, L. .................. Cowslips. Marsh Marygold
  Lewiston, Clifton, Ontario.

Aquilegia Canadensis, L. ..................... Wild Columbine
  Goat Island and along the rocky banks of the river in many places.

Hydrastis Canadensis, L  ...................... Hydrastis
  Cayuga Island, and probably elsewhere nearer the falls.

Actaea spicata, L. .................. Herb Christopher. Red Cohosh
  var. rubra, Ait.
  Goat Island, near DeVaux College.

Actaea alba, Bigelow  ...................... White Cohosh
  Goat Island.

Cimicifuga racemosa, Nutt  .................. Black Snake-root
  Probably occurs near Queenston, Ont.
MAGNOLIACEÆ.

_Liriodendron Tulipifera, L_ ........... **White wood. Tulip-tree**

Goat Island. Not common. One fine specimen is growing near the carriage way on the north side of the island.

_Magnolia acuminata, L_ ................. **Cucumber tree**

"Near the falls of Niagara." _Provancher_. Not seen by us.

ANONACEÆ.

_Asimina triloba, Dunal_ .................................. **Papaw**

Queenston Heights, Ontario, _Macoun_.

MENISPERMACEÆ.

_Menispermum Canadense, L_ .................. **Moon seed**

Common both in New York and Ontario, but not noticed by us near the Falls. Doubtless overlooked.

BERBERIDACEÆ.

_Berberis vulgaris, L_ ......................... **Barberry**

Goat Island, near Lewiston.

_Caulophyllum thalictroides, Michx_ ........... **Blue Cohosh**

Goat Island. Abundant.

_Jeffersonia diphylla, Pers...Twin Leaf. Rheumatism Root**

Niagara Falls. _Clinton_. Very rare.

_Podophyllum peltatum, L_ ............... **May Apple. Mandrake**

Goat Island. Abundant.

NYMPHACEÆ.

_Nymphæa tuberosa, Paine_ .............. **White Water Lily**

Abundant in shallow places in the river, some distance above the Falls.

_Nuphar advena, Ait_ .......................... **Yellow Water Lily**

With the last.

PAPAVERACEÆ.

_Celidonium majus, L_ .......................... **Celandine**

Clifton, Ontario.

_Sanguinaria Canadensis, L_ ..................... **Blood Root**

Goat Island, where it has been found producing pink flowers.
FUMARIACEÆ.

**Diclytra Cucullaria**, DC.  (*Dicentra Cucullaria*, DC.)  **Dutchman’s Breeches**
Goat Island. Abundant.

**Diclytra Canadensis**, DC.  (*Dicentra Canadensis*, DC.)  **Squirrel Corn**
Goat Island. Abundant. Between the two species numerous hybrids have been noticed on Goat Island.

**Corydalis glauca**, Pursh  **Corydalis**
Occurs at Tonawanda, and should be found near the Falls.

CRUCIFERÆ.

**Alyssum calycinum**, L.  **Alyssum**
Near Brock's monument, Ontario.

**Draba verna**, L.  **Whitlow Grass**
Introduced on Goat Island, but perhaps not established.

**Dentaria diphylla**, Michx.  **Pepper Root. Crinkle Root**
Goat Island.


**Cardamine rhomboidea**, DC  **Spring Cress**  var. *purpurea*, Torr.
Goat Island and elsewhere. The typical form, probably, may be found in the low ground near Clifton, Ontario.

**Cardamine hirsuta**, L.  **Bitter Cress**
Goat Island.

**Arabis lyrata**, L.  **Rock Cress**
Goat Island. The Three Sisters. And along the gorge to Lewiston.

**Arabis hirsuta**, Scop.
Near Devaux College, and at Lewiston, and on the opposite side of the river.


**Arabis Canadensis**, L.  **Sickle Pod**
Goat Island, and elsewhere.

**Arabis perfoliata**, Lam.  **Tower Mustard**
Near Clifton, Ontario.
Arabis Drummondii, Gray.
Lewiston. Not common.

Barbara praecox, R. Br. ................. Early Winter Cress.
Brock's monument, Ontario. Macoun.

Barbara vulgaris, R. Br. ................. Winter Cress
Road sides near the falls.

Erysimum cheiranthoides, L .......... Worm-seed Mustard
Margin of the river above the Falls.

Sysimerium officinale, Scop. .......... Hedge Mustard.
Road sides and waste places near the Falls.

Abundant on both sides of the river.

Brassica nigra, Koch. .................. Black Mustard.
Between the Falls and DeVaux College.

Nasturtium officinale, R. Br. .......... Water Cress.
Near the river's edge above the Falls. Clifton, Ontario.

Nasturtium palustre, DC ............... Marsh Cress
In damp places above the Falls.

Nasturtium lacustre, Gray ............. Lake Cress
In the river above the Falls.

Nasturtium Armoracia, Fries .......... Horse Radish
"At Niagara Falls." Macoun.

Capsella Bursa-pastoris, Mönch ........ Shepherd's Purse
Common everywhere.

Lepidium Virginicum, L ............... Wild Peppergrass
Road sides, near the village.

Lepidium campestre, R. Br ............ Field Peppergrass
"Clifton, near Niagara Falls." Macoun.

CAPPARIDACEÆ.

Polanisia graveolens, Raf.
"Abundant on the sands at Niagara." Macoun.
Plentiful at the foot of Lake Erie.

CISTACEÆ.

Helianthemum Canadense, Michx. .... Frost Weed
Common in dry places in Western New York, no doubt occurring near DeVaux College, and at Lewiston.

Lechea major, Michx. .................. Pinweed
Probably occurs with the last.
Lechea minor, Lam........................................Pinweed
Probably occurs with Helianthemum Canadense.

VIOLACEÆ.

Ionidium concolor, Benth. and Hook. (Solea concolor, Ging).
Goat Island. Foster's Flat, Ontario,

Green Violet

Viola bland a, Willd..............................................Violet
Goat Island, and near Clifton, Ontario.

Viola palmata, L.................................................Violet
var. cucullata, Gray. (V. cucullata, Ait.)
Goat Island and elsewhere.

Viola canina, L..................................................Dog Violet
var. Muhlenbergii, Gray. (Viola canina L., var. sylvestris,
Regel.)
Goat Island and elsewhere.

Viola rostrata, Muhl..............................Long-spurred Violet
Goat Island.

Viola Canadensis, L........................................Canada Violet
Goat Island.

Viola pubescens, Ait..............................Downy Yellow Violet
var. eriocarpa, Nutt.
Goat Island.

var. scabriuscula, Torr. and Gray.
Goat Island.

POLYGALACEÆ.

Polygala verticillata, L.
Near DeVaux College. Queenston Heights, Ontario, Macoun.

Polygala Senega, L.................................Seneca Snake Root
Both the narrow and the broad leaved varieties are to be found
near the whirlpool on both sides of the river.

Polygala incarnata, L.
Said by Douglass (1823) to have been found in rocky places on the
Niagara river near the Falls. Macoun.

CARYOPHYLLACEÆ.

Dianthus Armeria, L........................................Deptford Pink.
Lewiston, scarce. In a field near Clifton, Ontario, plentiful.

Saponaria officinalis, L.................................Soapwort.
Goat Island and the mainland.
Silene stellata, Ait. .......................... Starry Campion
    Found by Douglass, in 1823, in dry, stony places on the Niagara river. Macoun.

Silene antirrhina, L .......................... Sleepy Catch-fly
    Near DeVaux College and elsewhere.

Silene noctiflora, L .......................... Night-flowering Catch-Fly.
    Above the Falls on the American side of the river.

Lychnis Githago, Lam .......................... Corn Cockle.
    Fields on the main land.

Cerastium viscosum, L .......................... Mouse-ear Chickweed.
    Goat Island and elsewhere.

Cerastium vulgatum, L .......................... Mouse-ear Chickweed.
    Goat Island and elsewhere.

Stellaria media, Smith .......................... Chickweed.
    Goat Island and elsewhere.

Stellaria longifolia, Muhl .......................... Long-leaved Stitchwort.
    In damp, grassy places above the Falls.

Arenaria serpyllifolia, L .......................... Sand Wort.
    Road sides at Clifton and elsewhere.

Arenaria lateriflora, L .......................... Goat Island.

PORTULACACEÆ.

Portulaca oleracea, L .......................... Purslane.
    Waste places on the main land.

Claytonia Caroliniana, Michx .......................... Spring Beauty
    Goat Island.

Claytonia Virginica, L .......................... Spring Beauty
    Goat Island.

HYPERICACEÆ.

Hypericum Kalmianum, L .......................... Kalm’s St. John’s Wort
    Goat Island. “Rochers au bas de la chute de Niagara.” Pro-
    vancher. (Fl. Canad. p. 104.)

Hypericum perforatum, L .......................... Common St. John’s Wort.
    Goat Island and elsewhere.

Hypericum maculatum, Walt. (H. corymbosum, Muhl.)
    Margin of the river above the falls.

Hypericum mutilum, L ..........................
    Wet places along the river above the falls.

Hypericum Canadense, L ..........................
    In similar places as the last.
Hypericum Ascyron, L.  (*H. pyramidatum*, Ait.)

Great St. John's Wort

Grand Island. And probably nearer the falls.

Hypericum Virginicum, L.  (*Elodes Virginica*, Nutt.)

In swampy places along the river above Clifton, Ontario.

MALVACEÆ.

Althœa rosea, L. ...................................... Hollyhock.

Clifton, Ontario. Escaped from cultivation.

Malva rotundifolia, L. ................................... Low Mallow.

Goat Island and elsewhere.

Malva sylvestris, L. .................................... High Mallow.

Near the Devil's Hole.

Malva moschata, L. .................................... Musk Mallow.

Road sides on the main land.

Abutilon Avicennæ, Gaert. .............................. Velvet Leaf.

Waste places on the main land.

Hibiscus Moscheutos, L. .......................... Swamp Rose Mallow.

Probably may be found along the river above the Falls, as it grows in such situations near the foot of Lake Erie.

TILIACEÆ.


Goat Island. An abundant and conspicuous element of its forest.

Tilia——? ............................................. Basswood

Goat Island. The tree, here indicated, seems to be quite distinct from the last. It may be readily distinguished by its bark, which is as white as that of the white ash, *Fraxinus Americana*, L.

LINACEÆ.

Linum Virginianum, L ......................... Wild Flax

“Near Niagara Falls.” Macoun.

Linum usitatissimum, L. ......................... Common Flax.

Occasionally seen on railroad embankments.

GERANIACEÆ.

Geranium maculatum, L .................... Wild Geranium

Goat Island.

Geranium Robertianum, L .................... Herb Robert

Goat Island.
Flœrkia proserpinacoides, Willd. 
Goat Island.

Impatiens pallida, Nutt. .......... Impatience.  
Wild Balsam 
Goat Island.

Impatiens biflora, Walt. (I. fulva, Nutt.) 
Impatience.  
Wild Balsam 
Goat Island and the main land.

Oxalis stricta, L. ........................ Sorrel 
Great Island.

RUTACEÆ.

Xanthoxylum Americanum, Mill. ........... Prickly Ash 
Near Lewiston.

SIMARUIBACEÆ.

Ailanthus glandulosus, Desf.  Ailanthus.  Tree of Heaven 
Spontaneous near Clifton, Ontario.

ILICACEÆ.

Ilex verticillata, Gray. .................. Winter Berry 
Chippewa.  Macoun.  Probably nearer the falls.

Nemopanthes Canadensis, DC. 
Near Clifton, Ontario.

CELERACEÆ.

Celastrus scandens, L. .................. Bittersweet 
Goat Island.

Wahoo 
Goat Island.

Euonymus Americanus, L.  Strawberry Bush.  
Wahoo "Niagara."  Macoun. 
var. obovatus, Torr. and Gray. 
"Hills around Niagara Falls."  Macoun, on the authority of Dr. 
Maclagan.

RHAMNACEÆ.

Ceanothus Americanus, L. ............... New Jersey Tea 
Near De Vaux College.

VITACEÆ.

Vitis æstivalis, Michx. .................. Summer Grape 
Goat Island and elsewhere.

Vitis riparia, Michx. (V. cordifolia, Michx.) ...... Frost Grape 
Goat Island and elsewhere.
Vitis Labrusca, L. .......................... Wild Grape
Erroneously attributed to the vicinity of the Falls, as a native, in
the "Plants of Buffalo and Vicinity," (p. 26), and by Provancher
in the Flore Canadienne, (p. 112.) Occasionally spontaneous.

Ampelopsis quinquefolia, Michx............. Virginia Creeper
Goat Island and elsewhere.

SAPINACEÆ.

Staphylea trifolia, L. .......................... Bladder Nut
Foster's Flat, Ontario.

Æsculus glabra, Willd............................ Buckeye
Spontaneous near Lewiston. From the west.

Acer spicatum, Lam .......................... Mountain Maple
Goat Island, near the Horse-shoe falls.

Acer saccharinum, Wang...................... Sugar Maple
Goat Island. One of the most abundant trees.

Acer dasycarpum, Erhart..................... White Maple
Near Clifton, Ontario.

Acer rubrum, L............................... Red Maple
Goat Island. A shade tree in the village.

Acer Negundo, L. (Negundo aceroides, Meench.) ....... Box Elder
Planted in Prospect park, where it is now appearing spontaneously.

Acer platanoides, L...................................... Norway Maple
A common shade tree in the village.

ANACARDIACEÆ.

Rhus typhina, L............................... Stag-horn Sumach
Goat Island.

Rhus glabra, L................................. Smooth Sumach
Queenston Heights. Macoun.

Rhus venenata, DC............................... Poison Sumach
Swampy places above the Falls, near Clifton, Ontario.

Rhus Toxicodendron, L.......................... Poison Ivy
Goat Island. Too plentiful.
var. radicans, Torrey.............................. Poison Ivy
Goat Island.

Rhus aromatic, Ait............................. Aromatic Sumach
Near DeVaux College and on the opposite side of the river.
Common in the places named.
LEGUMINOSÆ.

**Lupinus perennis, L.** ...................................... **Lupine**
Queenston Heights, Ontario.

**Medicago lupulina, L.** ..................................... **Black Medick**
Above the Falls on the American side.

**Melilotus officinalis, Willd.** .................................. **Yellow Melilot**
Above the Falls on the American side.

**Melilotus alba, Lam.** ........................................... **Sweet Clover**
Goat Island and the main land.

**Trifolium arvense, L.** ........................................... **Rabbit's-foot Clover**
Abundant near Lewiston.

**Trifolium pratense, L.** ......................................... **Red Clover**
Goat Island and elsewhere.

**Trifolium repens, L.** ............................................ **White Clover**
Goat Island and elsewhere.

**Trifolium hybridum, L.** ........................................ **Alsike Clover**
American side of the river above the Falls. Lewiston.

**Trifolium procumbens, L.** ...................................... **Hop Clover**
Near Clifton, Ontario.

**Robinia Pseudacacia, L.** .................................... **Common Locust**
A frequent shade-tree, often spontaneous.

**Robinia viscosa, Vent.** ......................................... **Clammy Locust**
Spontaneous in places near Lewiston.

**Astragalus Cooperi, Gray** .......................... **Cooper's Milk Vetch**
Goat Island, near the Horse-shoe fall.

**Astragalus Canadensis, L.** ............................... **Milk Vetch**
Common on the islands in the river, near Tonawanda. It may be looked for nearer the Falls.

**Desmodium nudiflorum, DC.** ........................... **Tick Trefoil**
Near DeVaux College.

**Desmodium acuminatum, DC.**
Near DeVaux College.

**Desmodium pauciflorum, DC.**
"Woods at Niagara Falls." **Macoun.**

**Desmodium rotundifolium, DC.**
Near DeVaux College.

**Desmodium cuspidatum, Torr. and Gray.**
Queenston Heights, Ontario. **Macoun**, on the authority of **Douglass.**
Desmodium Dillenii, Darlington.

Desmodium paniculatum, DC.
Near DeVaux College and on the opposite side of the river.

Desmodium Canadense, DC.
Near Clifton, Ontario.

Desmodium ciliare, DC.
Queenston Heights, Ontario. Macoun.

Lespedeza reticulata, Pers. (L. violacea, Pers. var. sessiliflora, Torr. and Gray.)
Near DeVaux College.

Lespedeza hirta, Ell.........................Bush Clover
“Queenston Heights and Niagara Falls,” Macoun.

Lespedeza capitata, Michx....................Bush Clover
Near DeVaux College.

Vicia Cracca, L..............................Vetch. Tare
Near Clifton, Ontario.

Vicia Caroliniana, Walt......................Vetch
Goat Island.

Vicia Americana, Muhl........................Vetch
Goat Island.

Lathyrus ochroleucus, Hook..................Wild Pea
Goat Island, and near the whirlpool, Ontario.

Lathyrus paluster, L..........................Marsh Pea
var. myrtifolius, Gray.
Goat Island and margins of the river above the falls.

Amphicarpaea monoica, Elliott................Hog Peanut
Goat Island.

Apios tuberosa, Moench......................Ground Nut
Doubtless near the falls, but not yet observed by us.

Gleditschia triacanthos, L..................Honey Locust
Spontaneous along the bank of the river near Lewiston.

ROSACEÆ.

Amygdalus Persica, L..........................Peach
Spontaneous on Goat Island and near the Devil’s Hole.

Prunus Americana, Marshall..................Wild Plum
Goat Island and elsewhere.
Prunus Cerasus, L. Common Red Cherry
Spontaneous on Goat Island, and abundant along roadsides below the Falls.

Prunus Virginiana, L. Choke Cherry
Near DeVaux College.

Prunus serotina, L. Black Cherry
Near Clifton, Ontario.

Spiraea salicifolia, L. Common Meadow Sweet. Spiræa
Above the Falls on the Canadian side.

Neillia opulifolia, Benth. and Hook. (Spiræa opulifolia, L.) Nine-bark
Goat Island. The Three Sisters.

Rubus odoratus, L. Purple Flowering Raspberry
Goat Island and elsewhere.

Rubus triflorus, Rich.
Wet places near Clifton, Ontario.

Rubus strigosus, Michx. Red Raspberry
Goat Island.

Rubus occidentalis, L. Black Raspberry
Goat Island.

Rubus villosus, Ait. Blackberry
Goat Island.

Rubus Canadensis, L. Dewberry. Low Blackberry
Goat Island. Lewiston.

Geum album, Gmelin Avens
Goat Island.

Geum Virginianum, L.
Goat Island. Chippewa. Macoun, on the authority of Dr. Maclagan.

Geum strictum, Ait.
Goat Island.

Geum rivale, L. Purple Avens
Wet places above Clifton, Ontario.

Waldsteinia fragarioides, Tratt. Barren Strawberry
Goat Island.

Fragaria Virginiana, Duchesne Wild Strawberry
Goat Island and the main land.

Fragaria vesca, L. Wood Strawberry
Goat Island.
Potentilla Norvegica, L.  
Goat Island and the main land.

Potentilla Canadensis, L.  
var. simplex, Torr. and Gray.  
Near DeVaux College.

Potentilla argentea, L.  
Near DeVaux College. Clifton, Ontario.

Potentilla Anserina, L.  
Low grounds above the falls on both sides of the river.

Potentilla palustris, Scop.  
Marsh Five-finger  
Chippewa. Clinton.

Potentilla filosa, Willd.  
Near Clifton, Ontario. This is the plant called by us, P. recta, L., in the "Plants of Buffalo and Vicinity." The present determination was by Prof. Macoun.

Agrimonia Eupatoria, L.  
Goat Island.

Rosa blanda, Ait.  
Early Wild Rose  
Goat Island.

Rosa Carolina, L.  
Swamp Rose  
Wet grounds, near Clifton, Ontario.

Rosa parviflora, Ehrt.  
(R. lucida, Ehrt.) Shining Rose  
Goat Island.

Rosa rubiginosa, L.  
Sweet Briar  
Goat Island. Devil's Hole. Lewiston.

Rosa micrantha, Smith.  
Sweet Briar  
Goat Island.

Pyrus Malus, L.  
Apple  
Spontaneous on Goat Island and near the Devil's Hole and Lewiston.

Pyrus communis, L.  
Pear  
Spontaneous on Goat Island.

Pyrus coronaria, L.  
Wild Crab-apple  

Pyrus Aucuparia, Gaertn.  
Rowan Tree. Mountain Ash  
Within the gorge of the River, on the Canadian side, near the Cantilever Bridge.
Crataegus coccinea, L..........................Thorn
Goat Island.

Crataegus tomentosa, L...................... Black Thorn
Goat Island.

Crataegus Crus-galli, L.................... Cockspur Thorn
Goat Island. Not common in Western New York; but here, quite abundant.

Amelanchier Canadensis, Torr. and Gray.......Shad-bush
var. Botryapium, Gray.
Goat Island.
var. oblongifolia, Gray.
Goat Island. Clifton, Ontario.

SAXIFRAGACEÆ.

Saxifraga Virginiensis Michx..........Spring Saxifrage

Saxifraga Pennsylvanica, L..............Swamp Saxifrage
Cayuga Island, near LaSalle. Clifton.

Tiarella cordifolia, L......................Mitre Wort
Goat Island.

Mitella diphylla, L..........................Mitre Wort
Goat Island.

Mitella nuda, L......................... Naked Mitre Wort
Near Chippewa. Clifton.

Chrysosplenium Americanum, Schw.....Golden Saxifrage
Wet grounds near Clifton, Ontario.

Parnassia Caroliniana, Michx.
Goat Island near the Horse-shoe Fall. Wet grounds near Clifton, Ontario. Near the water’s edge at the Whirlpool on the Canadian side.

Ribes Cynosbati, L.........................Wild Gooseberry
Goat Island.

Ribes oxyacanthoides, L. (R. hirtellum, Michx.) Swamp Gooseberry.
Wet places near Clifton, Ontario.

Ribes floridum, L..........................Wild Black Currant
Along the descent to the Ferry on the Canadian side.
CRASSULACEÆ.

**Penthorum sedoides**, L. .................... Ditch Stone Crop
Damp places near Clifton, Ontario.

**Sedum acre**, L. ............................ Stone Crop
Goat Island and the mainland. Abundant.

**Sedum ternatum**, Michx .................... Stone Crop
Attributed to rocky places on Niagara River by Douglass. Not
seen by us.

**Sedum Telephium**, L. ..................... Live-for-ever
Near De Vaux College.

HAMAMELACEÆ.

**Hamamelis Virginica**, L................... Witch Hazel
Near De Vaux College.

HALORAGEÆ.

**Myriophyllum spicatum**, L .......... Water Milfoil
Niagara River above the Falls in shallow and quiet places.

**Myriophyllum verticillatum**, L ........ Water Milfoil
With the last.

**Myriophyllum heterophyllum**, Michx .... Water Milfoil
Pools near Clifton, Ontario.

LYTHRACEÆ.

**Nesæa verticillata**, H. B. K ............ Swamp Loosestrife
Found in several places along the shores of Niagara River near
Lake Erie. Therefore very likely to occur near the Falls, but
not yet observed by us.

ONAGRACEÆ.

**Epilobium spicatum**, L (E. augustifolium, L). .... Willow Herb
Near De Vaux College.

**Epilobium hirsutum**, L
Introduced near Clifton, Ontario. Perhaps not established.

**Epilobium palustre**, L
var. lineare, Gray.
Near Clifton, Ontario.

**Epilobium molle**, Torr.
In wet places near Clifton, Ontario.
Epilobium coloratum, Muhl.
Above the Falls on the American side.

Ludwigia palustris, Ell.
Not yet seen by us near the Falls, but may be confidently looked for.

Œnothera biennis, L. .................. Evening Primrose
Goat Island and elsewhere.

Œnothera pumila, L. (Œ. chrysantha, Michx.). Dwarf Evening Primrose.
Near the Cantilver Bridge on the Canadian side of the River.
Queenston Heights, Ontario. Macoun.

Gaura biennis, L. ........................ Gaura
Near the Devil's Hole.

Circea Lutetiana, L ........................ Enchanter's Nightshade
Goat Island.

Circea alpina, L. ........................ Enchanter's Nightshade
Damp and shady woods near Clifton, Ontario.

CUCURBITACEÆ.

Echinocystis lobata, Torr. and Gray ........ Wild Cucumber
Sicyos aughulatus, L ..................... Star Cucumber
These two members of the Gourd family, occurring not rarely in
Ontario and Western New York, have not been observed by us
near the Falls. They may be expected.

FICOIDEÆ.

Mollugo verticillata, L. ........................ Carpet Weed
"On the railway track between Niagara Falls and Queenston."
Macoun.

UMBELLIFERÆ.

Hydrocotyle Americana, L .................. Penny Wort
Damp and shady places near Clifton, Ontario.

Sanicula Canadensis, L ........................ Sanicle
Goat Island.

Sanicula Marilandica, L ........................ Sanicle
Goat Island.

Conium maculatum, L ........................ Poison Hemlock
Road sides on the mainland.
Cicuta maculata, L......................... Water Hemlock
Goat Island.

Cicuta bulbifera, L......................... Water Hemlock
Wet places near Clifton, Ontario.

Carum carvi, Koch.......................... Caraway
Goat Island.

Sium cicutaefolium, Gmel, (S. lineare, Michx.) Water Parsnip
Wet places near Clifton, Ontario.

Pimpinella integerrima, Beuth. and Hooker. (Zizia integerrima, DC.)
Near De Vaux College.

Cryptotaenia canadensis, DC.................. Hone Wort
Goat Island.

Osmorrhiza longistylis, DC.................. Smooth Sweet Cicely
Goat Island.

Osmorrhiza brevistylis, DC.................. Hairy Sweet Cicely
Goat Island.

Thaspium barbinode, Nutt.

Thaspium aureum, Nutt...................... Golden Alexanders
Goat Island.

Archangelica atropurpurea, Hoffm........ Great Angelica
Wet grounds near Clifton, Ontario.

Peucedanum sativum, Beuth. and Hook. (Pastinaca sativa, L.) Parsnip
Along the descent to the Ferry on the Canadian side.

Heracleum lanatum, Michx.................. Cow Parsnip
Goat Island. More abundant on the mainland.

Daucus carota, L.............................. Carrot
Near the Cantilever Bridge on the Canadian side.

Erigenia bulbosa, Nutt...................... Harbinger of Spring
Goat Island. Introduced. Established?

ARALIACEÆ.

Aralia nudicaulis, L...................... Wild Sarsaparilla
Goat Island. The Three Sisters.

Aralia quinquefolia, Gray.................. Ginseng
Goat Island, but rare.

Aralia trifolia, Gray....................... Dwarf Ginseng
Goat Island.
CORNACEÆ.

**Cornus florida, L.**.......................... *Flowering Dogwood*
  Goat Island. Near De Vaux College.

**Cornus circinata, L’Her**.............. *Round-leaved Dogwood*
  Goat Island near the Horse-shoe Fall.

**Cornus sericea, L.**....................... *Silky Dogwood*
  Goat Island.

**Cornus stolonifera, Michx.**............. *Red Osier Dogwood*
  Goat Island.

**Cornus paniculata, L’Her.**.............. *Dogwood*
  Goat Island. Near De Vaux College.

**Cornus alternifolia, L.**
  Not uncommon in Western New York. Probably overlooked.

**Nyssa multiflora, Wang.**................. *Pepperidge, Tupelo*
  Not a rare tree in Erie and Niagara Counties. Ought to be found near the Falls.

CAPRIFOLIACÆ.

**Sambucus racemosa, L.**.................. *Red-berried Elder*
  var. pubens, Watson.
  Goat Island.

**Sambucus Canadensis, L.**.................. *Elder*
  Goat Island.

**Viburnum Opulus, L.**..... *Snowball, Guelder Rose, High Cranberry*.
  Grand Island. Likely to be found on either side of the River near the Falls.

**Viburnum acerifolium, L.**.............. *Arrow wood*
  Near De Vaux College.

**Viburnum pubescens, Pursh.**............. *Arrow wood*
  Goat Island. Near De Vaux College. Along the descent to the Ferry on the Canadian side.

**Viburnum dentatum, L.**................. *Arrow wood*
  Chippewa, Ontario. *Macoun,* on the authority of *Dr. Maclagan.*
  Common on Grand Island.

**Viburnum nudum, L.**.......................... *Wither rod*
  Probably in the wet grounds near Clifton, Ontario.

**Viburnum Lentago, L.**..... *Sheep-berry, Sweet Viburnum*
  Wet grounds near Clifton, Ontario.
Triosteum perfoliatum, L.......................Horse Gentian
Near De Vaux College.

Symphoricarpus racemosus, Michx..................Snowberry
var. pauciflorus, Robbins.
Goat Island. Near De Vaux College and elsewhere.

Lonicera ciliata, Muhl.........................Fly Honeysuckle
Goat Island. Near Clifton, Ontario.

Lonicera Tartarica, L......................Tartarian Honeysuckle

Lonicera glauca, Hill. (L. parviflora, Lam., var. Douglasii, Gray.)
Goat Island.

Diervilla trifida, Moench....................Bush Honeysuckle
Near Clifton, Ontario.

Rubiaceae.

Houstonia cærulea, L.......................Bluets. Innocence
Near Lewiston.

Houstonia purpurea, L.
var. ciliolata, Gray.
Goat Island. Near the Whirlpool, on both sides of the River.

Cephalanthus occidentalis, L......................Button Bush
Wet places near Clifton, Ontario.

Mitchella repens, L.........................Partridge Berry
Goat Island.

Galium Aparine, L.........................Cleavers
Goat Island and elsewhere.

Galium Mollugo, L.......................Bed straw
Goat Island. Introduced.

Galium pilosum, Ait.........................Bedstraw

Galium circæzans, Michx.

Galium lanceolatum, Michx.
Near De Vaux College. Near the Whirlpool. Ontario. Macoun,
on the authority of Dr. Maclagan.

Galium boreale, L.........................Northern Bed straw
Goat Island. Near De Vaux College.

Galium trifidum, L.
var. tinctorum, Gray.
Goat Island.
Galium asprellum, Michx. .................. Rough Bedstraw
Goat Island.

Galium triflorum, Michx. .................. Sweet Bedstraw
Goat Island. Woods near De Vaux College.

VALERIANACEÆ.

Valeriana officinalis, L. .................. Millefleur. Valerian
Near the Cantilever Bridge on the Canadian side.

Valeriana dioica, L., var. sylvatica, Watson. (V. sylvatica. Rich.)
"Meadows, Niagara Falls." [Ontario.] Macoun, on the authority
of Dr. Maclagan. Not seen by us.

DIPSACEÆ.

Dipsacus sylvestris, Huds. .................. Teasel
Above the Falls, on the American side of the River. Near the
Devil's Hole.

COMPOSITÆ.

Eupatorium purpureum, L. .............. Purple Thoroughwort
Damp grounds near Clifton, Ontario.

Eupatorium perfoliatum, L. ........ Boneset. Thoroughwort
Above the Falls on the American side.

Eupatorium ageratoides, L. ............. White Snakeroot
Goat Island and elsewhere.

Liatris cylindracea, Michx. ............. Button Snakeroot
Near De Vaux College.

Solidago caesia, L. ....................... Golden Rod
Near De Vaux College.

Solidago latifolia, L. .................... Golden Rod
Goat Island.

Solidago bicolor, L. ....................... Golden Rod
Goat Island. Near De Vaux College.
var. concolor, Torr and Gray.
Near De Vaux College.

Solidago ulmifolia, Muhl. ............... Golden Rod
Goat Island.

Solidago neglecta, Torr. and Gray........ Golden Rod
"Niagara Falls." Macoun, on the authority of Dr. Burgess.

Solidago arguta, Ait. ..................... Golden Rod
Chippewa. Macoun, on the authority of Dr. Maclagan.
Solidago juncea, Hook. (S. arguta, Ait.) Golden Rod Goat Island.


Solidago rigida, L. Golden Rod Near De Vaux College.

Solidago lanceolata, Ait. Golden Rod Margin of Niagara River above the Falls on the American side.

Bellis perennis, L. English or True Daisy In a lawn at Clifton, Ontario, where it has maintained itself a number of years.


Aster Novae- Angliae, L. New England Aster Goat Island and above the Falls on either side.

Aster patens, Ait. Aster Near De Vaux College,


Aster cordifolius, L. Aster Near De Vaux College.


Aster laevis, L. Aster Near De Vaux College.

Aster ericoides, L. Aster Near De Vaux College.

Aster multiflorus, L. Aster Goat Island.
Near Clifton, Ontario.

Aster diffusus, Ait. (A. miser, Nutt.) ...................... Aster  
Goat Island. Near Clifton, Ontario.

Aster Tradescanti, L ...................... Aster  
Goat Island.

Aster paniculatus, Lam .......................... Aster  
Goat Island. Near De Vaux College.

Aster prenanthoides, Muhl ...................... Aster  
Near Clifton, Ontario.

Aster puniceus, L ...................... Aster  
Goat Island.

Aster umbellatus, Mill. (Diplopappus umbellatus, Torr. and Gray.) Aster  
Goat Island. Near Clifton, Ontario.

Aster ptarmicoides, Torr. and Gray .......................... Aster  
Near De Vaux College. A species not common in our region, but here rather abundant.

Erigeron bellidifolius, Muhl ................. Poor Robin’s Plantain  
Goat Island.

Erigeron Philadelphicus, L ...................... Pink Fleabane  
Near Clifton, Ontario.

Erigeron annuus, Pers. .......................... Fleabane  
Waste places on the mainland.

Erigeron strigosus, Muhl ...................... Fleabane  
Goat Island.

Erigeron Canadensis, L ...................... Horseweed  
Mainland above the Falls on the American side.

Antennaria plantiginifolia, Hook .............. Everlasting  
Lewiston.

Anaphalis margaritacea, Benth. and Hook. (Antennaria margaritacea, R. Br.) .............. Pearly Everlasting  
Near De Vaux College.

Gnaphalium polycephalum, Michx .............. Everlasting  
Near De Vaux College.

Gnaphalium uliginosum, L.  
Damp places along road sides on the main land.
**Inula Helenium, L.**..........................Elecampane
Goat Island.

**Polymnia Canadensis, L.**..........................Leaf-cup
Along the descent to the Ferry on the Canadian side of the River,
and at the Whirlpool and Foster's Flat, Ontario.

**Silphium trifoliatum, L.**
Attributed to the Falls, by Torrey, on the authority of Dr. Eddy.
Not observed by us.

**Ambrosia trifida, L.**..........................Rag Weed
Margin of the River above the Falls.

**Ambrosia artemisiifolia, L.**..........................Rag Weed
Goat Island and with the foregoing species.

**Xanthium Canadense, Mill.**..........................Cockle-bur
Above the Falls on the American side.
var. **echinatum**, Gray.
Chippewa, Ontario. Macoun, on the authority of Dr. Maclagan.

**Heliopsis lævis, Pers.**..........................False Sun-flower
Near Clifton, Ontario.

**Rudbeckia hirta, L.**..........................Yellow Daisy
Near Lewiston.

**Rudbeckia laciniata, L.**..........................Cone Flower
Wet places near Clifton, Ontario.

**Helianthus annuus, L.**..........................Common Sun-flower
Escaped near Clifton, Ontario.

**Helianthus divaricatus, L.**..........................Sun-flower
Goat Island.

**Helianthus strumosus, L.**..........................Sun-flower
Goat Island. Near DeVaux College.

**Helianthus decapetalus, L.**..........................Sun-flower
Damp places near Clifton, Ontario.

**Bidens frondosa, L.**..........................Cockle. Beggar's ticks
Waste places on the main land.

**Bidens connata, Muhl.**..........................Beggar's ticks
Goat Island.

**Bidens cernua, L.**
Wet places near Clifton, Ontario.

**Bidens chrysanthemoides, Michx.**
With the last and on the American side of the River above the Falls.
Bidens Beckii, Torr.
Chippewa, Ontario. Macoun, on the authority of Dr. Macclagan.
Niagara River near Grand Island.

Helenium autumnale, L. .......... Sneeze-weed
Goat Island and elsewhere in wet ground.

Anthemis Cotula, L. (Marula Cotula, D. C.) .......... Mayweed
Road sides on the main land.

Achillea Millefolium, L. .......... Yarrow
Goat Island.

Chrysanthemum Leucanthemum, L. .......... Ox-eye Daisy
Goat Island and elsewhere.

Chrysanthemum Parthenium, Pers. .......... Feverfew
Lewiston. A garden scape.

Tanacetum vulgare, L. .......... Tansy
Near the Cantilever Bridge on the Canadian side.

Artemisia vulgaris, L. .......... Mugwort
Along the descent to the old landing on the American side of the
River, of the steamer “Maid of the Mist.”

Tussilago Farfara, L .......... Coltsfoot
By the railroad track between the Devil’s Hole and Lewiston.

Senecio aureus, L .......... Golden Ragwort
Goat Island.
var. Balsamite, Torr. and Gray.
Near DeVaux College. Rays sometimes wanting.

Senecio vulgaris, L .......... Groundsel
American side of the River above the Falls.

Erechtites hieracifolia, Raf .......... Fireweed
Goat Island. Near Clifton, Ontario.

Arctium Lappa, L .......... Burdock
Goat Island.

Cnicus arvensis, Hoffm. .......... Canada Thistle
Goat Island and elsewhere.

Cnicus lancolatus, Hoffm. .......... Common Thistle
Goat Island and elsewhere.

Cnicus pumilus, Torr. .......... Pasture Thistle
Near DeVaux College.

Cnicus altissimus, Willd .......... Tall Thistle
var. discolor, Gray.
Goat Island.
Picris echioides, L.
“Along the road side between Clifton and Niagara Falls.” Macoun.

Lampsana communis, L.
Queenston Heights, Ontario. Macoun, on the authority of Millman.

Hieracium aurantiacum, L. Hawkweed
Goat Island. Introduced.

Hieracium Canadense, Michx. Canadian Hawkweed
Near DeVaux College.

Hieracium paniculatum, L. Hawkweed
With the last.

Hieracium venosum, L. Hawkweed
Goat Island.

Hieracium scabrum, Michx. Hawkweed
Near DeVaux College.

Hieracium Gronovii, L. Hawkweed
Goat Island. Near Clifton, Ontario.

Prenanthes alba, L. (Nabalus albus, Hook.) White Lettuce
Goat Island.

Prenanthes altissima, L. (Nabalus altissimus, Hook.)
Lewiston. Foster’s Flat, Ontario.

Taraxacum officinale, Web. Dandelion
Goat Island and elsewhere.

Lactuca Canadensis, L. Wild Lettuce
Goat Island.

Lactuca integrifolia, Bigelow. (L. Canadensis L., var. integrifolia,
Torr. and Gray.)
Goat Island. Near Clifton, Ontario.

Lactuca leucophæa, Gray. (Mulgendum leucophæum, DC.) Blue
Lettuce.

Sonchus oleraceus, L. Sow Thistle
Goat Island.

LOBELIAE.

Lobelia syphilitica, L. Blue Lobelia
On the American side of the river above the Falls.

Lobelia Kalmii, L. Kalm’s Lobelia
Goat Island. Low grounds near Clifton, Ontario.

Lobelia inflata, L. Indian Tobacco
Lewiston and elsewhere.
CAMPANULACEÆ.

**Specularia perfoliata, A. DC.** ........ *Venus’s Looking Glass*  
Niagara Falls. *Macoun*, on the authority of *Dr. Burgess.*

**Campanula rapunculoides, L.** ......................... *Bellwort*  
Road sides on the main land. Escaped from cultivation.

**Campanula rotundifolia, L.** ......................... *Harebell*  
Goat Island, and thence to Lewiston.

**Campanula aparinoides, Pursh.** ................. *Marsh Bellflower*  
Goat Island, in grassy places on the edge of the River.

**Campanula Americana, L.** ......................... *Tall Bellflower*  
Near Clifton, Ontario.

ERICACEÆ.

**Gaylussacia resinosa, Torr. and Gray.** .......... *Huckleberry*  
Goat Island, and thence to Lewiston.

**Vaccinium stamineum, L.** ......................... *Deerberry*  
Near DeVaux College and at Lewiston.

**Vaccinium vacillans, Solander.** ............... *Low Blueberry*  
Goat Island.

**Vaccinium corymbosum, L.** ....................... *Swamp Blueberry*  
Wet ground near Clifton, Ontario.

Goat Island. Vicinity of the Whirlpool on both sides of the River.

**Gaultheria procumbens, L.** ....................... *Winter-green*  
Near the Whirlpool on the Canadian side.

**Chimaphila umbellata, Nutt.** ...................... *Prince’s Pine*  
Near DeVaux College.

**Pyrola secunda, L.** ................................. *Pyrola*  
Near DeVaux College.

**Pyrola chlorantha, Swartz.** .................... *Pyrola*  
Niagara Falls. *Clinton.* Near the Whirlpool on the Canadian side.

**Pyrola elliptica, Nutt.**  
Goat Island.

**Pyrola rotundifolia, L.** ......................... *False Winter-green*  
Near DeVaux College.

**Pterospora andromedea, Nutt.**  
Near the Whirlpool on the American side.
Monotropa uniflora, L. ......................... Indian Pipe
   Near the Whirlpool on the Canadian side.

Monotropa Hypopitys, L. .......................... Pine-sap
   Goat Island.  Clinton.

A sphagnous swamp, near Black Creek, Ontario, a few miles south
of Chippewa, has produced the following named plants of this family:
Chiogenes hispidula, Torr. and Gray . Creeping Snowberry
Andromeda polifolia, L. ......................... Andromeda
Cassandra calyculata, Don. ..................... Leather Leaf
Ledum latifolium, Ait. ........................ Labrador Tea

PRIMULACEÆ.

Dodecatheon Meadia, L.  American Cowslip . . . Shooting Star
   Goat Island.  Introduced.

Steironema ciliatum, Raf.
   Goat Island.

Steironema longifolium, Gray.
   "Crevices of rocks at Niagara Falls."  Macoun.

Lysimachia stricta, Ait.
   Wet grounds near Clifton, Ontario.

Lysimachia Nummularia, L. ............................. Moneywort
   Escaping from gardens on the main land.

Lysimachia thyrsiflora.
   Wet grounds near Clifton, Ontario.

OLEACEÆ.

Ligustrum vulgare, L. ......................... Privet
   Well established near Clifton, Ontario.

Syringa vulgaris, L ........................... Lilac
   A well-grown lilac-tree was observed in flower in the gorge of the
   River, on the Canadian side, near the Cantilever Bridge, where
   it could not have been planted by man.

Fraxinus Americana, L. ......................... White Ash
   Goat Island and elsewhere.

Fraxinus sambucifolia, Lam. ........................ Black Ash
   Goat Island.  Near Clifton, Ontario.

APOCYNACEÆ.

Apocynum androsæmifolium, L. ..................... Dog Bane
   Near DeVaux College.
Apocynum cannabinum, L. .................... Indian Hemp
    Goat Island. Prospect Park. Lewiston.

Vinca minor, L. ............................ Periwinkle, Creeping Myrtle
    Goat Island. Introduced and spreading.

ASCLEPIADACEÆ.

Asclepias tuberosa, L. .......................... Butterfly Weed
    Below the Falls on both sides of the River.
Asclepias incarnata, L. ........................ Swamp Milkweed
    Goat Island. Wet grounds near Clifton, Ontario.
Asclepias Cornuti, Decaisne .......................... Common Milkweed
    Goat Island and elsewhere.
Asclepias phytolaccoides, Pursh ........................ Wood Milkweed
    Goat Island.
Asclepias quadrifolia, L. .......................... Four-leaved Milkweed
    Near DeVau College.
Asclepias verticillata, L. ........................ Whorled Milkweed
    Near DeVau College.

Acerates viridiflora, Ell. .......................... Green-flowered Milkweed
    "Niagara Falls." Macoun.

GENTIANACEÆ.

Gentiana serrata, Gunner .......................... Shorn Gentian
    Goat Island. Wet grounds near Clifton, Ontario.

Gentiana Andrewsii, Grieseb ........................ Closed Gentian
    Chippewa, Ontario. Macoun, on the authority of Dr. Maclagan.

Gentiana crinita, Froel, occurs on Islands in Niagara River, near Lake Erie. Gentiana Saponaria, L., may be looked for on either side of the River above the Falls. Gentiana quinqueflora, Lam., probably will be found on the wooded hillsides near the Whirlpool on the Canadian side.

Frasera Carolinensis, Walt. ...................... American Columbo

POLEMONIACEÆ.

Phlox divaricata, L. ............................. Blue Phlox
    Goat Island and elsewhere.

Polemonium reptans, L. .......................... Polemonium
    Goat Island. Uncommon.
HYDROPHYLLACEÆ.

Hydrophyllum Virginicum, L. .................. Water Leaf
Goat Island. Clifton, Ontario.

Hydrophyllum Canadense, L. .................. Water Leaf
Near Clifton, Ontario.

BORRAGINACEÆ.

Cynoglossum officinale, L. .................. Hounds-tongue
Goat Island and elsewhere.

Cynoglossum Virginicum, L. .................. Wild Comfrey
Near DeVaux College.

Echinospermum Virginicum, Lel. (Cynoglossum Morisoni, DC.)
Goat Island.

Echinospermum Lappula, Lehm .................. Stickweed
Road sides on the main land.

Myosotis laxa, Lehm .................. Forget-me-not
Wet grounds, near Clifton, Ontario.

Myosotis verna, Nutt.
Lewiston.

Lithospermum arvense, L. .................. Corn Gromwell
Goat Island and elsewhere.

Lithospermum officinale, L. .................. Common Gromwell
Goat Island and elsewhere.

Lithospermum latifolium, Michx.
Near DeVaux College.

Symphytum officinale, L. .................. Comfrey
Niagara Falls. Macoun, on the authority of Dr. Maclagan.

Echium vulgare, L. .................. Viper's Bugloss
Below the Falls on the American side.

CONVOLVULACEÆ.

Ipomoea purpurea, Lam. .................. Morning Glory
Occasionally seen as a garden scape.

Convolvulus arvensis, L. .................. Bindweed.
Above the Falls on the American side. Lewiston.

Convolvulus spithamæus, L. (Calystegia spithamæa, Pursh.)
Hedge-Bindweed.
Below Prospect park. Near DeVaux College.

Cuscuta inflata, Englemann. ................. Dodder
Below Lewiston. Identified by Dr. Englemann.

Cuscuta Gronovii, Willd. ..................... Dodder
Above the Falls on the American side.

Cuscuta Epilinum, Weihe. .................... Flax Dodder
Flax fields near Lewiston. Clinton.

Solanaceae.

Solanum nigrum, L. ......................... Common Nightshade
Waste places on the main land.

Solanum dulcamara, L. ....................... Bittersweet
Goat Island.

Physalis Virginiana, Mill. (P. viscosa L.) ... Ground Cherry
Below the Falls on the Canadian side.

Lycium vulgare, Dunal. ....................... Matrimony Vine
Near the lower Suspension Bridge, on the American side. Clinton.

Datura stramonium, L ......................... Stramonium. Thorn Apple
Waste places on the main land.

Datura tatula, L ............................ Purple Thorn Apple
Near Lewiston.

Hyoscyamus niger, L ........................ Henbane
Niagara. Judge Logie.

Scrophulariaceae.

Verbascum Thapsus, L ......................... Mullein
Goat Island and elsewhere.

Verbascum Blattaria, L ....................... Moth Mullein
Niagara Falls, Ontario, and between Queenston and Niagara. Macoun.

Linaria vulgaris, Mill. ...................... Butter-and-Eggs. Toad Flax
Above the Falls on the American side. Lewiston.

Collinsia verna, Nutt.
Goat Island. Introduced.

Scrophularia nodosa, M ........................ Figwort
var. Marilandica, Gray.
Goat Island.
Chelone glabra, L.......................... Turtle-Head
Wet ground near Clifton, Ontario.

Pentstemon pubescens, Solander.............. Pentstemon
Goat Island and elsewhere.

Pentstemon lævigatus, Solander. (P. Digitalis, Nutt.)... Pentstemon.
Goat Island. Introduced.

Mimulus ringens, L.......................... Monkey-Flower
Low grounds on the American side above the Falls.

Gratiola Virginiana, L.
With the last. Gill Creek. Clinton.

Veronica Virginica, L.......................... Culver’s Physic
Goat Island. Introduced.

Veronica Anagallis, L......................... Water Speedwell
Wet grounds near Clifton, Ontario.

Veronica Americana, Schw.................. Brooklime
Margin of river on the American side above the Falls.

Veronica scutellata, L.......................... Marsh Speedwell
Wet grounds near Clifton, Ontario.

Veronica officinalis, L.......................... Speedwell
Near Lewiston.

Veronica serpyllifolia, L..................... Thyme-leaved Speedwell
Goat Island.

Veronica peregrina, L.
Above the Falls on the American side.

Veronica arvensis, L.......................... Corn Speedwell
Goat Island.

Gerardia flava, L.............................. Downy False Foxglove
Near DeVaux College.

Gerardia quercifolia, Pursh.................. Smooth False Foxglove
Goat Island. Near DeVaux College.

Gerardia purpurea, L.......................... Purple Gerardia
Goat Island. Wet grounds near Clifton, Ontario.

Gerardia tenuifola, Vahl.
Near DeVaux College.

Castilleia coccinea, Spreng..................... Painted Cup
Near the Whirlpool on the Canadian side.

Pedicularis Canadensis, L..................... Lousewort
Goat Island.
Pedicularis lanceolata, Michx.
   Wet grounds near Clifton, Ontario.

Melampyrum Americanum, Michx. ................. Cow-wheat
   Goat Island. Near DeVaux College.

OROBANCHACEÆ.

Aphyllon uniflorum, Gray ......................... Broom-rape
   Near the Whirlpool on the Canadian side.

Conopholis Americana, Wallr. ...................... Cancer-root
   Above the Falls on the American side. Clinton. “Vicinity of
   Niagara Falls.” Macoun, on the authority of Dr. Maclagan.

Epiphegus Virginiana, Bart ....................... Beechdrops
   Goat Island. Not common.

LENTIBULARIACEÆ.

Utricularia vulgaris, L. ......................... Bladderwort
   Shallow and quiet places in Niagara river, near the American
   shore above the Falls.

Utricularia cornuta, Michx.
   Wet grounds near Clifton, Ontario. Not common now. “Abund-
   dant on the Table Rock.” [1818.] Nuttall, Gen. Am. Pl.,

ACANTHACEÆ.

Dianthera Americana, L. ...................... Water Willow
   Margin of Niagara River above the Falls on the American side.
   Chippewa, Ontario. Macoun on the authority of Dr. Maclagan.

VERBENACEÆ.

Phryma Leptostachyta, L. ..................... Lop-seed
   Goat Island.

Verbena urticaefolia, L. ...................... White Vervain
   Above the Falls on the American side.

Verbena hastata, L. ......................... Blue Vervain
   Goat Island and elsewhere.

LABIATÆ.

Teucrium Canadense, L. ..................... Germander
   Goat Island. Chippewa, Ontario. Macoun, on the authority of
   Dr. Maclagan.

Ajuga reptans, L. ................................. Bugle
   Goat Island. Introduced.
Collinsonia Canadensis, L. .................. Horse Balm
Near Clifton, Ontario.

Mentha viridis, L. .......................... Spearmint

Mentha piperita, L. .................. Peppermint
Above the Falls on the American side. Near Lewiston.

Mentha Canadensis, L. .................. Wild Mint
Goat Island and elsewhere.

Lycopus Virginicus, L. .................. Bugle Weed
Goat Island.

Lycopus sinuatus, Ell. (L. Europæus, L., var. sinuatus, Gray.)
Shore of Niagara River on the American side above the Falls.

Pycnanthemum lanceolatum, Pursh .... Mountain Mint
Near DeVauX College.

Calamintha Nuttallii, Benth. (C. glabella, Benth., var. Nuttallii, Gray.)
In wet, rocky places above Clifton, Ontario.

Calamintha Clinopodium, Beuth .................. Basil
Goat Island.

Mélissa officinalis, L. .................. Lemon Balm
Niagara Falls. Macoun, on the authority of Dr. Burgess.

Hedeoma pulegioides, Pers. ............. False Penny Royal
Near Lewiston.

Salvia officinalis, L. .................. Sage
Near DeVauX College. Well established.

Monarda fistulosa, L. .................. Horse Mint
Goat Island and elsewhere.

Monarda didyma, L., Scarlet Balm, ought to be found in the
low, rich grounds along the River, near Clifton, Ontario.

Lophanthus nepetoides, Benth. ............ Giant Hyssop
Near DeVauX College. Between Niagara Falls and Lake Ontario.
Macoun, on the authority of Dr. Maclagan.

Lophanthus scrophulariæfolius, Benth.
Slopes of Queenston Heights. Macoun.

Nepeta Cataria, L. .................. Catnip
Goat Island.

Nepeta Glechoma, Benth ............. Ground Ivy
Goat Island.
Scutellaria lateriflora, L. .......................... Skull-Cap
Wet grounds near Clifton, Ontario.

Scutellaria parvula, Michx. .......................... Skull-Cap
Near the Whirlpool on the Canadian side.

Scutellaria galericulata, Michx. .......................... Skull-Cap
Goat Island and elsewhere.

Brunella vulgaris, L. .......................... Heal-All
Goat Island and elsewhere.

Physostegia Virginiana, Benth.
Shores of the river above the Falls.

Leonurus Cardiaca, L. .......................... Motherwort
Goat Island.

Stachys aspera, Michx. (S. palustris, L., var. aspera, Gray.) Hedge Nettle.
Goat Island.

PLANTAGINACEÆ.

Plantago major, L. .......................... Common Plaintain
Goat Island and elsewhere.

Plantago Rugellii, Decaisne. (P. Kamtschatica, Cham.) Plaintain
Goat Island and elsewhere.

Plantago lanceolata, L. .......................... Rib grass
Near Clifton, Ontario.

Plantago media, L.

AMARANTACEÆ.

Amaranthus retroflexus, L. .......................... Pigweed
Road sides on the main land.

Amaranthus albus, L. .......................... White Amaranth
Road sides on the main land.

CHENOPODIACEÆ.

Chenopodium album, L. .......................... Pigweed
Goat Island and elsewhere.

Chenopodium glaucum, L.
Road sides and waste places on the main land.

Chenopodium urbicum, L. .......................... Pigweed
Bath Island.

Chenopodium hybridum, L.
Goat Island.
Chenopodium Botrys, L. .................................. Oak-of-Jerusalem
“Niagara Falls.” Macoun.

Atriplex patula, L. ........................................... Orache
var. hastata, Gray.
American side of the River above the Falls.
var. littoralis, Gray.
With the last.

PHYTOLACCACEÆ.

Phytolacca decandra, L. ................................ Pokeweed
Goat Island.

POLYGONACEÆ.

Polygonum aviculare, L. .................................. Knot Grass
Waste places on the main land.

Polygonum erectum, L.
Above the Falls on the American side.

Polygonum incarnatum, Ell.
Shores of the River above the Fall.

Polygonum Pennsylvanicum, L.
“In the Niagara District.” Macoun, on the authority of Dr.
Maclagan.

Polygonum amphibium, L.
Islands of Niagara River. Clinton.

Polygonum Muhlenbergii, Watson. (P. amphibium, L. var.
terrestre, Willd.)
Margin of the River above the Falls.

Polygonum Persicaria, L. .................................. Lady's Thumb
Waste places on the main land.

Polygonum Hydropiper, L ............................... Smart weed
Margin of the River above the Falls.

Polygonum acre, H. B. K ................................. Smart weed
On the American side of the River above the Falls.

Polygonum hydropiperoides, Michx.
Wet places near Clifton, Ontario.

Polygonum arifolium, L ................................. Tear-thumb
Chippewa, Ontario. Macoun, on the authority of Dr. Maclagan.

Polygonum sagittatum, L ................................. Tear-thumb
Doubtless to be found in the low, wet ground near Clifton, Ontario.

Polygonum Convolvulus, L ............................. Black Bindweed
Waste places and road sides of the main land.
**Polyonum dumetorum, L.**.............. **False Buckwheat**

var. *scandens*, Gray.

Chippewas, Ontario. *Macoun*, on the authority of *Dr. Maclagan*.

**Rumex crispus, L.**.................. **Yellow dock**

Road sides on the main land.

**Rumex obtusifolius, L.**................ **Bitter dock**

In similar places as the last.

**Rumex acetosella, L.**................ **Sheep Sorrel**

Near Clifton, Ontario.

**ARISTOLOCHIACEAE.**

**Asarum Canadense, L.**............. **Wild Ginger**

Near Clifton, Ontario. Lewiston. Only the larger form (or species?) noticed.

**PIPERACEAE.**

**Saururus cernuus, L.**............... **Lizard’s Tail**

“Charles’s Island above the Falls.” [Ontario.] *Macoun*, on the authority of *Dr. Burgess*.

**LAURACEAE.**

**Sassafras officinale, Nees.**........ **Sassafras**

Lewiston. Near the Whirlpool on the Canadian side.

**Lindera Benzoin, Meisner**........... **Spice bush**

Goat Island and the Three Sisters.

**THYMELACEAE.**

**Dirca palustris, L.**................. **Moosewood**

Niagara, Ontario. *Macoun*, on the authority of *Dr. Maclagan*.

**Daphne mezereum, L.**................ **Mezereon**

Goat Island. Introduced and spreading.

**ELEAGNACEAE.**

**Shepherdia Canadensis, Nutt.**....... **Shepherdia**

Goat Island and on each side of the River to Lewiston and Queenston.

**SANTALACEAE.**

**Comandra umbellata, Nutt.**......... **Bastard Toad-Flax**

Goat Island. Lewiston and elsewhere.
EUPHORBIACEÆ.

Euphorbia maculata, L. .................. Spotted Spurge
Main land on both sides of the River.

Euphorbia platypylla, L. .................. Spurge
Road sides on the main land.

Euphorbia Helioscopia, L. .................. Spurge
With the last.

Euphorbia Cyparissias, L. .................. Cypress Spurge
Escaped.

Euphorbia hypericifolia, L. .................. Spurge
Above the Falls on the American side.

Acalypha Virginica, L. .............. Three-seeded Mercury
Near DeVaux College.

CERATOPHYLLACEÆ.

Ceratophyllum demersum, L .................. Hornwort
In shallow places in the River above the Falls on the American side. In pools near Clifton, Ontario.

URTICACEÆ.

Ulmus fulva, Michx ...................... Slippery Elm
Goat Island. Lewiston.

Ulmus Americana, L ...................... American Elm
Goat Island.

Ulmus racemosa, Thomas .................. Thomas’s Elm
Bath Island. Planted.

Ulmus campestris, L ..................... English Elm,
Luna Island. Planted.

Celtis occidentalis, L .............. Nettle Tree. Sugar Berry
“Rather common between Queenston and Niagara.” Macoun.

Morus rubra, L ...................... Red Mulberry
Near DeVaux College. One small specimen observed near the Ferry landing on the Canadian side. “Not uncommon from Niagara Town along the river to the Whirlpool.” Macoun.

Morus alba, L ...................... White Mulberry
Spontaneous near Lewiston. Niagara Falls. Macoun.

Morus ——
An undetermined species has been planted on Luna Island.
Urtica gracilis, Ait. ........................................ Tall Nettle
Goat Island.

Laportea Canadensis, Gaud. ....................... Wood Nettle
Damp grounds above Clifton, Ontario.

Pilea pumila, Gray .................................. Richweed
Goat Island.

Boehmeria cylindrica, Willd. has probably been overlooked.

Cannabis sativa, L ..................................... Hemp
Waste places on the main land.

PLATANACEÆ.

Platanus occidentalis, L .................. Button Wood. Sycamore
Goat Island.

JUGLANDACEÆ:

Juglans cinerea, L ................................. Butternut
American side of the River above the Falls.

Juglans nigra, L ................................. Black Walnut

Carya alba, Nutt. .... White Hickory. Shell-bark Hickory
Goat Island. Near DeVaux College. “At Queenston Heights
and the Falls it constitutes the greater part of the forest.”
Macoun.

Carya tomentosa, Nutt ....................... Hairy Hickory
“Amongst other hickories in the Niagara peninsula.” Macoun.

Carya porcina, Nutt ....................... Pignut Hickory
“Queenston Heights and Niagara Falls.” Macoun.

Carya amara, Nutt ............... Bitter Hickory
Goat Island. In the village near the River. Below Lewiston.

BETULACEÆ.

Betula lenta, L .................. Black Birch
Goat Island.

Betula lutea, Michx ............................. Yellow Birch
Goat Island near the Horse-shoe Fall.

Betula papyracea, Ait ............... Paper Birch
Goat Island. Below Lewiston.

Alnus incana, Willd ............................... Alder
Goat Island. Wet grounds near Clifton, Ontario.
CUPULIFERÆ.

Carpinus Caroliniana, Walt. (Carpinus Americana, Michx.)
Blue Beech.
Goat Island.

Ostrya Virginica, Wild...Iron Wood. Hop Hornbean
Goat Island. Some of the trees very large.

Corylus rostrata, Ait..........................Hazelnut
Near DeVaux College.

Corylus Avellana, L.........................European Filbert
Planted on Luna Island.

Fagus ferruginea, Ait......................Beech
Goat Island. Abundant.

Castanea vulgaris, Lam......................Chestnut
var. Americana, A. DC.
Near DeVaux College. Lewiston. Queenston.

Quercus alba, L..............................White Oak
Goat Island; but more abundant near DeVaux College.

Quercus obtusiloba, Michx..................Post Oak
"Niagara Falls." Provancher, Flore Canadienne, p. 543.

Quercus Prinus, L...........................Chestnut Oak
"Niagara." Provancher, Flore Canadienne, p. 543.

Quercus macrocarpa, Michx..................Bur Oak
"Niagara." Provancher, Flore Canadienne, p. 543.

Quercus prinoides, Willd. (Q. Prinus, L., var. humilis, Gray.)
Dwarf Chestnut Oak.
Goat Island. "Common on Queenston Heights and in numerous
places around Niagara." Macoun.

Quercus rubra, L..............................Red Oak
Near Clifton, Ontario.

Quercus coccinea, Wang.....................Scarlet Oak
Goat Island. "In the forest along the Niagara river it is an
adundant tree." Macoun.

Quercus tinctoria, Bartram .................Quercitron

Quercus palustris, Du Roi..................Pin Oak
"Wet woods below Queenston Heights." Macoun.

SALICACEÆ.

Salix nigra, Marsh..........................Black Willow
Salix lucida, Muhl. .......................... Shining Willow
  Goat Island.  Near Clifton, Ontario.

Salix discolor, Muhl. .......................... Glaucous Willow
  Goat Island.

Salix rostrata, Richardson. (S. livida, Wahl., var. occidentalis, Gray.)
  Livid Willow.
  Above the Falls on both sides of the River.

Salix petiolaris, Smith.
  American side of the River above the Falls.

Salix cordata, Muhl. .......................... Heart leaved Willow
  Goat Island.

Salix purpurea, L .............................. Basket Willow
  On the American side of the River, above the Falls. “Between
  Niagara Town and Queenston.” Macoun.

Salix alba, L., and
Salix Babylonica, L. are not uncommon in cultivation.

Populus alba, L. .............................. Abele.  White Poplar
  Near DeVauex College.

Populus canescens, Smith .......................... White Poplar
  Planted as a shade tree in places. This and the last species have
  been often confounded by American botanists. P. canescens is
  much the commoner.

Populus tremuloides, Michx .......................... American Aspen
  Goat Island.

Populus grandidentata, Michx .......................... Large-toothed Aspen
  Goat Island.  The Three Sisters.

Populus monilifera, Ait. .......................... Cotton wood
  Goat Island and occasionally on both sides of the River, above the
  Falls to Lake Erie.

Populus balsamifera, L.
  var. candicans, Gray .......................... Balm of Gilead
  Lewiston.  A single tree near the Ferry landing on the Canadian
  side; probably not planted. The typical form may occur in
  the vicinity of the Falls as it is not uncommon on the islands in
  the River near Lake Erie. Not yet observed near the Falls.

Populus dilatata, L. .............................. Lombardy Poplar
  Planted as a shade tree on the main land and spreading by the
  root.
CONIFERÆ.

Thuja occidentalis, L. .......... Arbor-vitæ. White Cedar
Goat Island. Near DeVaux College. The most abundant of the
evergreens growing near the Falls.

Juniperus communis, L. ............ Juniper
Goat Island.

Juniperus Virginiana, L. ............. Red Cedar
Goat Island. Apparently disappearing.

Taxus baccata, L., var. Canadensis, Gray. Ground Hemlock
American Yew.
Goat Island.

Pinus Strobus, L. .................... White Pine
Goat Island. A few specimens. More plentiful and of larger
growth near De Vaux College and below.

Tsuga Canadensis, Carriere. (Abies Canadensis, Michx.) Hemlock
Goat Island. Not a prevailing tree.

HYDROCHARIDACEÆ.

In the old mill-race above the Falls on the American side and
elsewhere.

Vallisneria spiralis, L. .......... Tape-grass. Ell-grass
With the last.

ORCHIDACEÆ.

Corallorhiza multiflora, Nutt. .......... Coral root
Near the Whirlpool, Ontario.

Spiranthes latifolia, Torr. .......... Ladies' Tresses
Wet places near Clifton, Ontario.

Spiranthes cernua, Rich. .......... Ladies' Tresses
In the same places as the last.

Habenaria Hookeri ana, Torr. (Habenaria Hookeri, Torr.) Twa
Blade.
Near the Whirlpool, Ontario.

Habenaria hyperborea, R. Br.
Goat Island near the Horse-shoe Fall.

Cypripedium pubescens, Willd. .......... Ladies' Slipper. Moccasin
Flower.
Near De Vaux College.
Cypripedium parviflorum, Salisb... Ladies' Slipper. Moccasin Flower.
Near the Whirlpool, Ontario.

IRIDACEÆ.

Iris versicolor, L ......................... Blue Flag
Goat Island. In wet places above the Falls on both sides of the River.

Sisyrinchium anceps, Cav. (Sisyrinchium Bermudiana, L. var. anceps, Gray.) ......................... Blue-eyed Grass
Near De Vaux College.

Sisyrinchium mucronatum, Mich. (Sisyrinchium Bermudiana, L. var. mucronatum, Gray.)
Not seen by us. Probably overlooked.

SMILACEÆ.

Smilax herbacea, L ......................... Carrion Flower
Near De Vaux College.

Smilax hispida, Muhl. (Cat-Brier), and Smilax rotundifolia, L. (Green Brier), have not been observed, but probably may be found.

LILIACEÆ.

Allium tricoccum, Ait. ......................... Wild Leek
Goat Island. Abundant.

Allium Canadense, Kalm.
Goat Island. Not common.

Polygonatum biflorum, Ell ...................... Solomon's Seal
Goat Island.

Smilacina racemosa, Desf ...................... False Solomon's Seal
Goat Island and elsewhere.

Smilacina stellata, Desf.
Goat Island. Only the small variety.

Maianthemum Canadense, Desf. (Smilacina bifolia, Ker. var. Canadensis, Gray.) ..................... Two-leaved Solomon's Seal

Asparagus officinalis, L ......................... Asparagus
Goat Island and elsewhere. Not common.

Lilium Philadelphicum, L ...................... Fire Lily
Near De Vaux College.

Hemerocallis fulva, L ......................... Day Lily
Near the Cantilever bridge on the Canadian side. Escaped from cultivation.
Erythronium Americanum, Ker. \( \ldots \) Yellow Adder's-Tongue
Goat Island and elsewhere.

Uvularia grandiflora, Smith \( \ldots \) Bellwort
Goat Island.

Oakesia sessilifolia, Watson. \((Uvularia sessilifolia, \text{L.})\) \( \ldots \) Small Bellwort.
Goat Island.

Streptopus roseus, Michx \( \ldots \) Streptopus
Goat Island.

Prosartes lanuginosa, Don \( \ldots \) Prosartes
Goat Island.

Veratrum viride Ait \( \ldots \) False Helebore
Low grounds near Clifton, Ontario.

Chamaelirium Carolinianum, Wild. \((Chamaelirium luteum, \text{Gray.})\) Devil's Bit.
Between Stamford and the Whirlpool, Ontario. Abundant.

Medeola Virginica, L \( \ldots \) Cucumber Root
Goat Island. Not common.

Trillium erectum, L \( \ldots \) Purple Trillium
Goat Island.
var. album, Pursh.
With the typical form.

Trillium grandiflorum, Salisb \( \ldots \) Large White Trillium
Goat Island. Flower with green stripes through the petals frequently produced.

PONTEDERIACEAÆ.

Pontederia cordata, L \( \ldots \) Pickerel Weed
Niagara River above the Falls in quiet places.

Schollera graminifolia, Willd \( \ldots \) Water Star Grass
Not uncommon along the margin of Niagara River near Lake Erie and likely to be found in places nearer the Falls.

JUNCACEAÆ.

Luzula pilosa, Willd \( \ldots \) Hairy Wood-Rush
Near De Vaux College.

Luzula campestris, DC
With the last.

Juncus effusus, L \( \ldots \) Soft Rush
Above the Falls near the River on the American side.
Juncus bufonius, L ................................... Rush
   In similar situations as the last.

Juncus tenuis, Wild. .................................. Rush
   Low places on the main land.

Juncus acuminatus, Mich .................................. Rush
   var. debilis, Engleman.
   In low grounds.

Juncus nodosus, L ................................... Rush
   Goat Island, in wet places near the margin of the River.
   var. megacephalus, Torr.
   With the last.

Juncus Canadensis, J. Gay ................................... Rush
   On both sides of the River above the Falls.

TYPHACEÆ.

Typha latifolia, L ................................... Cat-tail Flag
   At the water's edge near the foot of the American staircase.

Typha angustifolia, L .................................. Narrow-leaved Cat-tail Flag
   Niagara Falls. Clinton.

Sparganium eurycarpum, Engleman .................. Bur Reed
   American side of the River above the Falls.

Sparganium simplex, Hudson .......................... Bur Reed
   With the last.

AROIDEÆ.

Ariséma triphyllum, Torr ... Indian Turnip. Jack-in-the-Pulpit.
   Goat Island. A large and small variety common.

Peltandra Virginica, Raf ................................. Arrow Arum

Symplocarpus foetidus, Salisb ......................... Skunk's Cabbage
   Wet places above Clifton, Ontario.

Acorus Calamus, L ................................... Calamus. Sweet Flag
   With the last.

LEMNACEÆ.

Lemna trisulca, L ................................... Duck's meat
   Niagara River above the Falls in quiet places.

Spirodela polyrrhiza, Schleid ........................ Duck's meat
   In similar places as the last.

Wolffia Columbiana, Karst.
   Niagara River above the Falls. Prof. Kellicott.
ALISMACEÆ.

**Alisma Plantago, L.** ............... *Water Plantain*

var. Americana, Gray.

Margin of Niagara River above the Falls.

**Sagittaria variabilis,** Engelmann .......... *Arrow-Head*

Above the Falls in wet places on the Canadian side.

**Sagittaria heterophylla,** Pursh.

Niagara River, near La Salle. *Clinton.*

**Triglochin palustre, L.**

Wet ground above Clifton, Ontario. Of unusual size.

NAIADACEÆ.

**Naias flexilis,** Rostk. ....................... *Naiad*

Niagara River above the Falls.

**Zannichellia palustris, L.** .............. *Horned Pondweed*

Abundant in the upper portion of Niagara River and therefore to be expected nearer the Falls.

**Potamogeton natans, L.** ....................... *Pondweed*

Niagara River near Strawberry Island. *Clinton.*

**Potamogeton hybridus,** Michx. .............. *Pondweed*

Black Creek, Ontario, opposite Grand Island.

**Potamogeton rufescens,** Schrader .......... *Pondweed*


**Potamogeton fluitans.** Roth. *(P. lonchites, Tuckerman).* *Pondweed.*


**Potamogeton lucens, L.** ....................... *Pondweed*

Niagara River.

**Potamogeton amplifolius,** Tuckerman ........ *Pondweed*


**Potamogeton gramineus, L.** ....................... *Pondweed*

var. *heterophyllus,* Fries.

Niagara River.

var. *elongatus,* Morong.


**Potamogeton prælongus,** Wulfen .......... *Pondweed*


**Potamogeton perfoliatus, L.** ....................... *Pondweed*

var. *lanceolatus,* Robbins.

Niagara River.

Potamogeton Niagarensis, Tuckerman.........Pondweed
Rediscovered, after many years, in 1886, in the old mill-race
above the Falls, on the American side, by the Rev. Thomas
Morong.

Potamogeton pauciflorus, Pursh.................Pondweed
Niagara River.

Potamogeton pusillus, L.........................Pondweed
Niagara River.

Potamogeton pectinatus, L.......................Pondweed
Niagara River.

Potamogeton Robbinsii, Oakes..................Pondweed
Niagara River.

[Note.—It is not asserted that all the species of Potamogeton, above
named, have yet been detected in the immediate vicinity of the Falls, but
as they all occur more or less abundantly in the upper portion of the River
(except as noted), they may well be expected nearer the Falls.]

Cyperaceæ.

Cyperus diandrus, Torr..........................Galingale
var. castaneus, Torr.
Goat Island, on the east side, near the River.

Cyperus esculentus, L. (Cyperus phymatodes, Muhl.) . Galingale
Goat Island near the River.

Cyperus strigosus, L..............................Galingale
Wet places near Clifton, Ontario.

Cyperus fliculmis, Vahl., has probably been overlooked.

Dulichium spathaceum, Richard..................Dulichium
Wet places near Clifton, Ontario.

Eleocharis ovata, R. Br. (Eleocharis obtusa, Schult.) . Spike Rush
Near the shores of the River above the Falls.

Eleocharis palustris, R. Br......................Spike Rush
With the last and growing in the water.

Eleocharis tenuis, Schult.......................Spike Rush
Damp places above the Falls.

Eleocharis acicularis, R. Br....................Spike Rush
Shores of the River above the Falls on either side.
Scirpus planifolius, Muhl .......................... Spike Rush
    Near De Vaux College.

Scirpus pungens, Vahl .......................... Spike Rush
    Wet places above Clifton, Ontario.

Scirpus lacustris, L. (S. validus, Vahl.) ........ Great Bull Rush
    Margin of the River, on the American side, above the Falls. Wet
    places above Clifton, Ontario.

Scirpus fluviatilis, Gray ........................ Club Rush
    Wet places above Clifton, Ontario.

Scirpus atrovirens, Muhl.
    Wet places along the River above the Falls on either side.

Scirpus lineatus, Michx.
    East side of Goat Island in wet places near the River.

Eriophorum cyperinum, L, (Scirpus Eriophorum, Mich.)  Wool
    Grass.
    Wet places above Clifton, Ontario.

Carex polytrichoides, Muhl. ........................ Sedge
    Wet places above Clifton, Ontario.

Carex Steudellii, Kunth. .......................... Sedge
    Near Clifton, Ontario.

Carex bromoides, Schkr. .......................... Sedge
    Wet places near Clifton, Ontario.

Carex vulpinoides, Michx. ........................ Sedge
    Above the Falls, on the American side, in low places.

Carex stipata, Muhl. .............................. Sedge
    With the last.

Carex rosea, Schkr. ............................... Sedge
    Goat Island in damp places.
    var. retroflexa, Torr. (Carex retroflexa, Muhl.) .... Sedge
    Goat Island in damp places.

Carex sterilis, Willd ............................. Sedge
    Near Clifton, Ontario.

Carex scoparia, Schkr. ............................ Sedge
    With the last.

Carex tribuloides, Wahl. (Carex lagopodioides, Schkr.) ... Sedge
    With the last.
    var. cristata, Bailey. (Carex cristata, Schw.) ......... Sedge
    Goat Island.
Carex straminea, Schkr. ............................................. Sedge
Near De Vaux College.

Carex aquatilis, Willd. ............................................. Sedge
Margin of the River above the Falls.

Carex torta, Boott. ..................................................... Sedge
Near Clifton, Ontario.

Carex stricta, Lam. ..................................................... Sedge
In wet, grassy places on the American side above the Falls.

Carex crinita, Lam. ..................................................... Sedge
Near Clifton, Ontario.

Carex aurea, Nutt. ..................................................... Sedge
Near Clifton, Ontario.

Carex granularis, Muhl. ............................................. Sedge
Near Clifton, Ontario.

Carex conoidea, Schkr. ............................................. Sedge
Moist places on the American side above the Falls.

Carex grisea, Wahl. ..................................................... Sedge
With the last.

Carex virescens, Muhl. ............................................. Sedge
Near De Vaux College.

Carex plantaginea, Lam. ............................................. Sedge
Near Lewiston.

Carex retrocurva, Dew ............................................. Sedge
Goat Island.

Carex platyphylla, Carey ............................................. Sedge
Near De Vaux College.

Carex digitalis, Willd. ............................................. Sedge
Goat Island.

Carex laxiflora, Lam. ................................................ Sedge
var. plantaginea, Boott.
Near De Vaux College.

Carex eburnea, Boott. ............................................. Sedge
Goat Island, and near De Vaux College.

Carex Pennsylvanica, Lam. ........................................ Sedge
Lewiston.

Carex varia, Muhl. ..................................................... Sedge
Near Clifton, Ontario.

Carex prasina, Wahl. (Carex miliacea, Muhl.) ..................... Sedge
Wet places above Clifton, Ontario.
Carex debilis, Michx ................................. Sedge
With the last.

Carex Oederi, Retz................................... Sedge
Goat Island, near the Horse-shoe Fall. Niagara. Provancher,
Flore Canadienne, p. 658.

Carex riparia, Curtis................................. Sedge
Eastern side of Goat Island.

Carex trichocarpa, Muhl............................ Sedge
Near Clifton, Ontario.

Carex comosa, Boott................................. Sedge
Near Clifton, Ontario.

Carex intumescens, Rudge........................ Sedge
Near Clifton, Ontario.

Carex lupulina, Muhl............................... Sedge
Wet grounds above the Falls on either side.

Carex rostrata, With. var. utriculata, Bailey. (Carex utriculata, Boott.)........................ Sedge
With the last.

[Note.—It is not unlikely that a number of other species of this large and difficult genus may still be found in the vicinity of the Falls; and, as our specimens have not been submitted to any one who has made the Carices a special study, it is quite probable that some of our determinations may prove erroneous.]

GRAMINEÆ.

Panicum glabrum, Gaudin.......................... Panic Grass
Road sides on the main land.

Panicum sanguinale, L............................ Crab Grass. Panic Grass
Above the Falls on the American side of the River.

Panicum capillare, L.............................. Witch Grass
A garden weed on the main land.

Panicum virgatum, L.............................. Panic Grass
Wet grounds near Clifton, Ontario. Dry places near De Vaux College. The latter an unusual situation.

Panicum latifolium, L............................ Panic Grass
Near De Vaux College.

Panicum clandestinum, L......................... Panic Grass
Goat Island.

Panicum dichotomum, L.......................... Panic Grass
Near De Vaux College.
Panicum depauperatum, Muhl. ................. Panic Grass
Goat Island and the Three Sisters in rocky places.

Panicum Crus-galli, L. ....................... Barn-Yard Grass
Waste places on the main land.

Setaria viridis, Beauv. ....................... Green Fox-tail Grass
Above the Falls on the American side.

Spartina cynosurioides, Wild. ................ Cord Grass
Margin of the River above the Falls on either side.

Zizania aquatica, L. ......................... Wild Rice
Niagara River above the Falls.

Leersia Virginica, Willd. ..................... White Grass
Goat Island.

Leersia oyzoides, Swartz. ..................... Rice Cut Grass
Wet places above Clifton, Ontario.

Andropogon provincialis, Lam. (A. furcatus, Muhl.) ... Beard Grass.
Near De Vaux College.

Andropogon scoparius, Michx. ............... Beard Grass
Near De Vaux College.

Chrysopogon nutans, Benth. (Sorghum nutans, Gray.) ... Indian Grass.
Near De Vaux College.

Phalaris arundinacea, L. ..................... Reed Canary Grass
Near Clifton, Ontario. Islands in the River above the Falls.

Oryzopsis melanocarpa, Muhl. ............... Mountain Rice
Near the Whirlpool, Ontario.

Oryzopsis asperifolia, Michx. ............... Mountain Rice
Goat Island. Near De Vaux College.

Oryzopsis juncea, Michx. (Oryzopsis Canadensis, Torr.) ... Mountain Rice.
Near Lewiston.

Muhlenbergia glomerata, Trin. ............... Drop-seed Grass
Niagara Falls. Clinton.

Muhlenbergia Mexicana, Trin. ............... Drop-seed Grass
Niagara Falls. Clinton.

Muhlenbergia sylvatica, Torr. and Gray. ... Drop-seed Grass
Foster's Flat, Ontario. Clinton.

Muhlenbergia Wilddenovii, Trin. ............. Drop-seed Grass
Lewiston.
Muhlenbergia diffusa, Schreb. .................. Nimble Will
Near the Whirlpool, Ontario. Clinton.

Muhlenbergia capillaris, Kunth. ............. Hair Grass
"On the talus below the Falls on the American side." Clinton.

Brachyelytrum aristatum, Beauv.
Goat Island. Near De Vaux College.

Phleum pratense, L............................... Timothy
Goat Island and the main land.

Alopecurus geniculatus, L .................. Fox-tail Grass
Near the lower Suspension bridge, Ontario.

Lewiston. Near the Whirlpool, Ontario.

Agrostis perennans, Tuckerman ............. Thin Grass
Lewiston.

Agrostis scabra, Willd. ..................... Hair Grass
Near De Vaux College.

Agrostis alba, L. (Agrostis vulgaris, With.) .... Red Top Grass
Grassy places. Goat Island and elsewhere.
var. vulgaris, Thurb.......................... Fiorin
Margin of the River above the Falls on the American side.

Cinna arundinacea, L ......................... Reed Grass
Near Clifton, Ontario.

Deyeuxia Canadensis, Beauv. (Calamagrostis Canadensis, Beauv.)
Blue-joint Grass.
Goat Island, on the water's edge.

Deschampsia flexuosa, Griseb. (Aira flexuosa, L.) .... Common Hair Grass.
Near De Vaux College.

Deschampsia caespitosa, Beauv. (Aira caespitosa, L.) .... Hair Grass.
Goat Island.

Avena striata, Michx .......................... Wild Oat
Lewiston and elsewhere.

Avena sativa, L......................... Oat
Road sides above the Falls. Not persistent.

Danthonia spicata, Beauv................. Wild Oat Grass
Near De Vaux College. Near the Whirlpool, Ontario.
**Phragmites communis**, Trin. ................. Reed
Niagara River above the Falls.

**Eatonia Pennsylvanica**, Gray ................ Eatonia
Moist places above the Falls.

**Dactylis glomerata**, L ....................... Orchard Grass
Above the Falls on the American side.

**Poa annua**, L ................................ Low Spear Grass
Goat Island and the main land.

**Poa compressa**, L .......................... Wire Grass
Goat Island and the main land.

**Poa serotina**, Ehrh ......................... False Red Top
Wet grounds above Clifton, Ontario.

**Poa pratensis**, L .......... Common Meadow Grass. Kentucky
Blue Grass.
Goat Island.

**Poa debilis**, Torr.
Near De Vaux College.

**Poa alsodes**, Gray.
Near De Vaux College.

**Glyceria nervata**, Trin ................. Fowl-Meadow Grass
Above the Falls on both sides of the River.

**Glyceria pallida**, Trin.
Niagara river above the Falls on the American side.

**Glyceria arundinacea**, Kunth  (G. aquatica, Smith.) ...... Reed
Meadow Grass.
Wet places above Clifton, Ontario.

**Glyceria fluitans**, R. Br.
Old mill-race above the Falls on the American side.

**Festuca duriuscula**, L  (F. ovina, L., var. duriuscula, Gray.)
Sheep's Fescue.
Goat Island.

**Festuca elatior**, L ............................ Meadow Fescue
Goat Island.

**Festuca nutans**, Spreng ...................... Fescue
Near De Vaux College. Lewiston.

**Bromus secalinus**, L ........................... Chess
Fields near Lewiston.
Bromus racemosus, L.................................Chess
Fields near Lewiston.

Bromus Kalmii, Gray.............................Wild Chess
Near the Whirlpool, Ontario.

Bromus ciliatus, L.................................Wild Chess
Near De Vaux College.

Lolium temulentum, L...........................Bearded Darnel
Near the landing of the old steamer “Maid of the Mist,” on the
American side. Clinton.

Agropyrum repens, Beauv. (Triticum repens, L.)...Couch,
Quitch, or Quick Grass.
Road sides near Clifton, Ontario.

Agropyrum caninum, R. and S. (Triticum caninum, L.)...Awned
Wheat Grass.
Goat Island.

Elymus Virginicus, L..............................Lyme Grass
On either side of the River above the Falls.

Elymus Canadensis, L.............................Lyme Grass
Near the Whirlpool, Ontario.

Elymus striatus, Willd............................Lyme Grass
Near De Vaux College.

Asprella Hystrix, Willd. (Gynostichum Hystrix, Schreb.)...Bottle-
Brush Grass.

EQUISETACEÆ.

Equisetum arvense, L..............................Horse-Tail
Goat Island and elsewhere.

Equisetum limosum, L..............................Horse-Tail
Islands of Niagara River. Clinton.

Equisetum palustre, L..............................Horse-Tail
Wet places above Clifton, Ontario.

Equisetum hyemale, L............................Scouring Rush
Near the Whirlpool, Ontario, and elsewhere.

Equisetum variegatum, Schleicher.
Goat Island. Wet places above the Falls, on the Canadian side.

Equisetum scirpoides, Michx.
Near the Whirlpool, Ontario.
OPHIOGLOSSACEÆ.

Botrychium Virginianum, Swartz. (B. Virginicum, Swartz.)

Moonwort.

Goat Island and elsewhere.

Botrychium ternatum, Swartz. Moonwort
var. intermedium, D. C. Eaton. (B. lunarioides, D. C. Eaton.)

Near Clifton, Ontario.

Ophioglossum vulgatum, L. Adder's Tongue

Occurs on Grand Island, and may, therefore, be confidently looked
for in favorable situations near the Falls.

FILICES.

Onoclea Struthiopteris, Hoffm. (Struthiopteris Germanica, Willd.)

Ostrich Fern.

Goat Island and elsewhere.

Onoclea sensibilis, L. Sensitive Fern

Goat Island and elsewhere.

Osmunda regalis, L. Royal Fern


Osmunda Claytoniana, L. Interrupted Fern

Near Clifton, Ontario.

Osmunda cinnamomea, L. Cinnamon Fern

Near Clifton, Ontario.

Cystopteris fragilis, Swartz.

Between Lewiston and Youngstown. Near De Vaux College.

Cystopteris bulbifera, Bern. Bladder Fern

Goat Island and along the American stair-case. Near the Whirl-
pool, Ontario.

Aspidium Noveboracense, Swartz. New York Fern

Goat Island.

Aspidium Thelypteris, L. Shield Fern

Goat Island.

Aspidium spinulosum, Swartz. Shield Fern
var. intermedium, D. C. Eaton.

Near Clifton, Ontario.

Aspidium cristatum, Swartz. Shield Fern

Foster's Flat, Ontario.
Aspidium Goldianum, Hook. .................. Shield Fern
Near the Whirlpool, Ontario.

Aspidium marginale, Swartz. ............... Shield Fern
Goat Island. Devil's Hole. Foster's Flat, Ontario.

Aspidium Lonchitis, Swartz. ............... Shield Fern

Aspidium achrostichoides, Swartz. .......... Christmas Fern

Phegopteris Dryopteris, Fée ............... Beech Fern
Devil's Hole.

Camptosorus rhizophyllus, Link ............ Walking Fern
Not uncommon near the Whirlpool, Ontario. Foster's Flat, Ontario. Near De Vaux College, but rare.

Scolopendrium vulgare, Smith ............ Hart's tongue Fern
Introduced in one place in the gorge of the River by Judge Clinton several years ago.

Asplenium Trichomanes, L .................. Spleen wort
Near De Vaux College. Foster's Flat, Ontario.

Asplenium ebeneum, Ait. .................. Spleen wort
Near De Vaux College, but rare. Near Lewiston, abundant.

Asplenium achrostichoides, Swartz. (Asplenium thelypteroides, Michx.) .................. Spleen wort
Near the Whirlpool, Ontario.

Asplenium Filix-fœmina, Bern .............. Lady-Fern
Foster's Flat, Ontario.

Pellæa gracilis, Hook ..................... Cliff-Brake

Pellæa atropurpurea, Link .................. Cliff-Brake

Pteris aquilina, L ......................... Common Brake
Near De Vaux College and at Lewiston.

Adiantum pedatum, L ...................... Maiden-Hair Fern

Polypodium vulgare, L ..................... Polypody
LYCOPODIACEÆ.

**Lycopodium lucidulum**, Michx.

**Lycopodium dendroideum**, Michx.

**Lycopodium complanatum**, L.

No species of *Lycopodium* (or *Ground Pine*) has been seen by us in the immediate vicinity of the Falls. Yet it is likely that the three species here mentioned may be found, as they are not rare elsewhere in Western New York.

SELAGINELLACEÆ.

**Selaginella ruprestis**, Spring. ............. Rock Selaginella

Cliffs of Niagara River near the Devil's Hole.

**Selaginella Apus**, Spring. ....................... Selaginella

Goat Island near the Horse-shoe Falls. Damp grounds on both sides of the River above the Falls.

**Isoetes echinospora**, Dui. ................... Quill wort

var. Braunii, Englemann.

Not seen by us; but occurring in the River above the Falls. *Clinton.*

HYDROPTERIDES.

**Marsilia quadrifolia**, L. ...................... Marsilia

Introduced into the Niagara River above the Falls and in a pool near Lewiston.

**Azolla Caroliniana**, Willd. ..................... Azolla

“At a saw-mill half a mile above the village.” Niagara. *Dr. Robbins.*

Note.—The unnamed species of *Tilia*, herein referred to seems to be only a variety of *Tilia Americana*, L. July 26, 1888.