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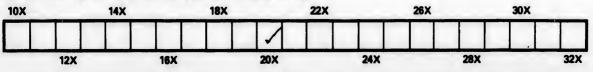
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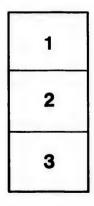
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BULLETIN OF THE NATURAL HISTORY SOCIETY.

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ARTICLE III.

NOTES OF A WILD GARDEN.

BY G. U. HAY.

(Read before the Society, December 7th, 1897.)

About ten years ago the idea occurred to me of planting a wild garden in which should be shown, as far as the conditions would warrant, the peculiarities and extent of the flora of New Brunswick. The garden plot covers an extent of nearly two acres and is well adapted for the purpose intended. It is situated about eleven miles from the city, on a broken piece of ground overlooking the St. John river. In one corner is a meadow, made up of alluvial deposit brought from the neighboring hills, and adapted for plants usually found on intervales. Through this meadow flows a small stream fed by springs on the hills which lie to the westward. The idea of planting a native arboretum was first suggested by finding in this meadow a group of small trees and shrubs eight in number, forming a pretty little arbor on the bank of the curving stream. The plants consisted of the cedar, the white and yellow birch, American ash or rowan-tree, water alder, mountain maple, balsam fir and black spruce. One could stand in the centre of this arbor and touch one-tenth of all our forest trees and shrubs. When nature had made such a beginning it was surely a broad hint for me to do the rest.

When the remainder of the two acre plot came to be explored, possibilities were found to exist for something more than an arboretum; and the idea of a wild garden gradually came, which might include most of our flowering plants, all our native ferns, and perhaps in time a representative gathering of our mosses, lichens and fungi. Rising from the meadow toward the south, within the bounds of the plot, is a hill whose slope is covered with a young but quite ample growth of spruce, fir, birch, maple, etc., the deciduous trees largely prevailing, and giving to the soil each year an abundant supply of leaf mould. Half way up this hill, in the centre of the grove, is a depression which

catches the drainage of the slopes around it. The moist ground, cool shade, and northern exposure of this basin, forms an ideal spot for a fernery.

Thus there were provided a meadow and a grove, two very neces sary adjuncts of a wild garden.

Crossing an intervening open space toward the south after leaving the grove, the top of the hill is reached. Here stands an aged white pine, the only survivor of a fire which swept over the place some years before. The blackened trunk, and upper branches extended imploringly, tell of its struggle for life On this knoll the soil is dry and poor, covered with a growth of small trees and heath plants. This is called Heath Hill. On the continuation of this knoll to the east stands a small summer cottage overlooking the St. John river and the Nerepis hills to the north. Sloping from the cottage toward the river is a cultivated field in which and along its borders may be placed those plants requiring full exposure to sunlight.

In this garden there have been about five hundred native species of flowering plants and feins, many of which were in situ, while others have been planted during the last ten years; of these about ten per cent. have disappeared, or failed to grow through lack of proper conditions or the perils incident to long transportation, as the transfer of plants has been made chiefly in the summer months; so that not quite one-half of the flowering plants of the province can be seen in this space of nearly two acres. But little progress has been made in planting the grasses, sedges, rushes, and aquatic plants. The results in regard to the latter are especially disappointing, although considerable labor has been expended on them. The (at times) turbulent little stream has shown no disposition to be led into quiet ponds or stretches of pool. It has even carried away-root, stem and branch-the plants placed too confidingly within the limits of its bed, and all attempts to secure its co-operation, or at least a passive nonresistance in the scheme, have resulted in failure.

There is a larger representation of ferns in the garden than any other class of plants. Nearly all of the forty species and varieties found within the limits of the province were living and flourishing during the past summer. The trees and shrubs are also very well represented. Out of the eighty species found in the province, more than sixty are growing and in good condition, and in a short time I hope to have a complete representation of our forest trees and shrubs

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BULLETIN OF THE NATURAL HISTORY SOCIETY.

Four years ago, Dr. Saunders, of the Experimental Farm. s I would me over one hundred plants representing, chiefly, the trees week (Sat shrubs of Western Canada and a few northern European species. The here, how have been planted on the borders of the cleared spaces of the gar be unde and are kept quite distinct from the native species. They, with whole seas number of others, sent from Point Pleasant Park, Halifax, includi the Heather (Calluna vulgaris) have grown very well, although to little care has been given them. These will serve for comparison we similar native species as well as to illustrate the effect of our clime 1859. May 4. F

Little or no attempt has been made to put plants in rows or haccording to their classification, the chief aim being to provide natural habitat and surroundings as far as possible. The only May 11. I ception to this was the treatment of weeds, a colony of which, prudential reasons, I placed in a row beyond the pale of other plat. With a perversity characteristic of their tribe, they spurned st treatment and refused to grow.

Another family which does not take kindly to cultivation is t Orchids. Many of these, of which we have so many beautiful nat species, affect a solitary habit and are found in bogs. Others love t rich mould of deep sheltered woods. Others such as the Calypare rare or local in their occurrence.

In the future, I hope to present to the Society at the close of easeason, a few notes embodying the results of observations, especia May 17. on the rarer species and those less susceptible of "cultivation together with the time of coming into leaf, flower or fruit of certa species of plants, which on account of their commonness have be May 23-20 generally accepted as the basis of observation. In making such observation. vations, there is a great value in watching for results on the sat spot of ground or the same plant, or one quite near it, from year This I have endeavored to do after being assured that if May vear. plant has adapted itself to its changed conditions, and had been lot Mod enough in the garden to be relied on to furnish correct data. Mas In th results recorded below, I have not hesitated to go outside the garde to make observations on plants more favorably situated for comit into leaf or bloom early, always choosing the same locality, and. the case of perennials, the same plants from year to year.

May

The observations recorded below have extended over a period ten years, from 1889 to 1898, inclusive. They are not so complete

NOTES OF A WILD GARDEN.

al Farm, I would wish, as my visits were generally confined to one day each the trees a week (Saturday) in the months of April and May. I give the results species. The here however, as they may be useful for comparison with those to of the gar be made later, which I hope will be fuller and extending through They, with whole seasons.

OBSERVATIONS IN WILD GARDEN AND ADJACENT FIELDS, INGLESIDE, KINGS Co., N. B.

- Plants in bloom : Adder's-tougue (Erythronium Americanum), Mayflower (Epigaa repens), White Violet (Viola blanda), Gold-thread (Coptis trifolia), Bellwort (Oakesia sessilifolia).
- Purple Trillium (Trillium purpareum), Painted Trillium (T. ery. throearpum), Grove Anemone (A. nemorosa), Spring-beauty (Claytonia Virginica), Hobble-bush (Viburnum lantanoides), Blue Violet (Viola cucullata), June-berry (Amelanchier Canadeusis), Strawberry (Fragaria Virginiana).
- May 17-20. Rhodora (Rhodora Canadensis), Blueberry (Vaccinium Pennsyl, vanicum), Painted Trillium, Hobble-bush, Red Cherry (Prunns Pennsylvanieum), Shad-bush (Amelanchier botryapium).

(Hereafter the common names of plants alone will be given except where species different from those above are named.)

- Mayflower (blooming beside the snow banks on the barrens), Adder'stongue (just beginning to open).
- Adder's-tongue (in full bloom), Bellwort, Purple and Painted Trilliums, Blue and White Violets, Gold-thread, Red Maple (Acerrubrum.) Mayflowers still abundant on barrens.
- ess have be May 23-26. Adder's-tongue, Blue and White Violets, still abundant. Juneberry, its pure white petals making a beautiful contrast with the delicate green of the unfolding leaves of surrounding trees; Service-berry, Strawberry, Hobble-bush, Grove Anemone.

Mayflower, Adder's-tongue. (A few in bloom). Adder's-tongue (in full bloom), White Violet, one Blue Violet. Trees still leafless. Weather dry. Cold and backward. Trees (White Birch, Poplars and Maples) just coming into leaf, and

fully expanding in the next two days under the influence of warmer weather. In bloom-Strawberry, Blue Violet, Red-berried Elder (Sambucus racemosa), Gold-thread.

No signs of leaves or flowers unfolding. Plenty of snow in hollows, but day warm and bright.

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April 18. Willow and Alder catkins beginning to shed pollen, Adder, tongue leaves above ground. Very cold north winds.

April 30. Mayflowers in full bloom on barrens. Cold north winds continue.

- May 7. Adder's-tongue (in full bloom), White Violet, Mayflower, Sweet Coltsfoot (Petasites palmata).
- May 14. Bellwort, Grove Anemone, Blue and White Violets.
- April 20. Hepatica triloba (planted the previous year) beginning to bloom beside a snow bank.
- May 13. Mayflower, White Violet, Adder's-tongue, Selkirk's Violet (Viola Selkirkii, Hepatica, Red Maple.
- May 20. Blue Violet, Grove Anemone, Bluets (Houstonia carulea), Springbeauty, Gold-thread, Bellwort, Blossoms of Red Maple falling, White Birch and Poplar trees unfolding their leaves.

1894.

1893.

- April 28. Hepatica (in bloom), Alder and Willow catkins elongated and beginning to shed pollen. Patches of snow still visible in clearings and hollows. Adder's-tongue leaves above ground; a few flower buds visible. Mayflower has been in bloom for ten days in exposed places on the barrens. Strawberry (a few scattered blossoms).
- May 13. Bloodroot (Sanguinaria Canadensis), Blue flowers of Hepatica falling with white in full bloom. The Purple and Painted Trilliums, White and Blue Violets, Bellwort, Star-flower (Trientalis Americana), Red Maple, Dandelion, Strawberry, in full bloom. Flower buds of June-berry and leaf buds of Red Cherry and White Birch ready to open. Frost ont of ground and gardening commenced.

1895.

April 20. Weather warm and sun bright, with south-west wind. Catkins of Alder shedding pollen. Leaves of Adder's-tongue above ground (No further observations this year on account of absence.)

1896.

- April 24. Season dry with cold winds from March, continuing to the middle of May. Flowers of Alder shedding pollen.
- May 1. White Violet, Hepatica, and Red Maple, in bloom, with a few flowers of Adder's-tongue.
- May 8-11. Adder's-tongue, Blue Violet, Dandelion, Strawberry, Bellwort. Ground Ivy (Nepeta glechoma), Grove Anemone.
- May 15. June-berry, Blueberry, Purple and Painted Trilliums, Hobble-bush, Blue Violet, Dandelion, Marsh Marigold (Caltha palustris), Bluets
- May 22. Red Cherry, Elder, Starflower, small flowered Crowfoot (Ranunculus abortivus).

1897. 7-10.

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NOTES OF A WILD GARDEN.

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Weather for first three weeks cold, with east winds and rain, with an occasional warm day. Hepatica, Adder's-tongue (only a few in flower), White Violet, Red Maple, Hazel (Corylus rostrata), Alders, Willows, Poplars, in full flower in shaded places, --in exposed places fading, with pollen shed; Butterwort (Pinguicula vulgaris) with leaves extended in rosettes. This plant, with such northern ferns as Woodsia hyperborea, W. glabella, Pellæa gracilis, and others, were brought from the Restigouche, 200 miles farther north, the previous season, and were among the first in the garden to unfold their leaves and fronds.

- y 14-19. Adder's tongue (in full bloom), Painted Trillium (a few), White Violet (abundant), Blue Violet (a few), Grove Anemone, Bellwort, Gold-thread, Strawberry (beginning to flower), Mayflower (in shade), Marsh Marigold.
- ay 21-25. Bluets, Hobble-bush, June-berry, Purple Trillium, Daudelion, Ground Ivy.
- (ay 30. Nodding Trillium (Trillium cernuum), False Mitrewort (Tiarella cordifolia), Rhodora, Red Cherry, Elder, Daudelion, Strawberry. 1898.
- pril 23. Season cold and backward, although the fine weather of February and March promised an early spring. Frost still in ground and cold east winds prevail. Mayflower (in bloom), Adder's Tongue with leaves above ground.
- fay 7. Hepatica and Red Maple (in full bloom), Alder and Poplar catkins shedding pollen, a few Adder's-tongue, Blue and White Violets(in bloom).
- May 14. All the flowers named above in full bloom, with Bellwort, Grove Anemone, Bloodroot, Leatherwood (Dirca palustris).
- Muy 39. Purple and Painted Trilliums, June-berry, Service-berry, Ground Ivy, Gold-thread, Spring-beauty, Marsh Marigold, Blue Cohosh (Caulophyllon thalictroides), Hobble-bush. Trees just leaved out: White Birch, Amelanchier, Poplars, Red Maple, Lilac, Mountain Ash, Red and Black Cherry. Buds just breaking : Horse Chestnut, Black Ash.
- May 24. First Red Cherry blossoms, Gray Birch (Betula populifolia) just coming into leaf, Red Oak, Linden, (Tilia Americana), Elm, Sumach (Rhus typhina) bursting their buds.

