

PLANTS OF CUNNINGHAM ISLAND, OTTAWA, ONTARIO¹

HERBERT GROH

Ottawa, Ontario

THIS SURVEY was prompted by the recovery recently, in files of a quarter century ago, of a list of plants made then on Cunningham Island.

In 1927 the new Champlain Bridge had first made possible easy access to the three islands of the Remic Rapids in the Ottawa River a few miles above the city of Ottawa. The prospect loomed that natural conditions would thus be disturbed, as was soon enough realized on the third, or Bate Island. In order to preserve some record of the existing flora a survey, all too hurried, was made of the second, known as Cunningham Island. No collections were made.

This, like its sister islands, is a low emergence above water, changing in area with the seasonal flow. It may be as little as three acres at floodtime, or as much as five acres in late summer. There are times, indeed, when it is possible to pass dry-shod between it and the adjacent islands. There is only a shallow soil over strata of Ottawa limestone, shown in a map of 1938 as Pamelaia. This is exposed around the shore at low water, except at the lower end where alluvial deposits have somewhat extended the area lying above water after late spring.

The island cover may be described as deciduous woodland with an under-storey of shrubbery, the latter most pronounced at the lower end. Away from the denuded shoreline there is almost everywhere more or less of a turf and only a rather limited true woodland flora. In the interstices of rock shelving exposed at low water a surprising number of species maintain themselves. Water vegetation is limited, no doubt by the velocity of the current at flood time.

Excluding Bate Island, which has been converted to picnic use, the islands have not undergone much apparent change. Park management has kept the bottom cleared of debris and has removed trees as they became decadent. There is no evidence of undue public vandalism. Absence of hepatica, dog-tooth violet, trillium and the like, is as likely as not ecologically conditioned, since they had not earlier been observed.

Notwithstanding impressions it was felt that the existence of a 1927 list of close to 150 species, warranted a new survey to check against it. This was undertaken in 1953 with more thoroughness, and with collection of specimens throughout the summer as nearly as possible at flowering or fruiting. The area was visited weekly as a rule by the writer, except during six weeks absence when others filled the breach. Some publicity had been given earlier to the 1927 list in *Field-Naturalist* and Macoun Field Club circles with resulting interest of members, which is appreciated. Special thanks are due for collecting to Miss Ruth Horner, Dr. C. Frankton and Mr. Leslie Jenkins. In identification later of more critical groups valuable help was given by Dr. W.G. Dore, Mr. J.A. Calder, Dr. J.M. Gillett, Dr. B. Boivin and other members of the Division of Botany staff.

Plants ordinarily were collected in triplicate. One set is deposited in the National Herbarium (Nat.). A partial set, including a few plants not available to complete the first, is in the herbarium of the Division of Botany (DAO), and a third, incomplete, is at Carleton College, Ottawa.

The list, following, is complete of plants found on Cunningham Island by the several collectors. When collected only by others than the writer the collector is indicated; thus Jenkins, or Horner & Frankton (H. & F.). Other collections are all by the writer; often repeated by one or both of the other teams. (With L. Jenkins was sometimes associated W. Ilman, and with H. Groh often D. C. Maddox). Plants in this table not in the 1927 list are preceded by an asterisk. They form quite an imposing array. Nomenclature is according to Gray's Manual, Eighth Ed.

Plants of Cunningham Island, 1953

EQUISETACEAE

EQUISETUM ARVENSE L. Common Horsetail

Sparingly on shores.

***E. PALUSTRE** L. Marsh Horsetail

Jenkins specimen in DAO.

1) Received for publication May 25, 1954.

OSMUNDACEAE

- ***OSMUNDA REGALIS** L. Royal Fern
Under cover of thicket at lower end.

POLYPODIACEAE

- ONOCLEA SENSIBILIS** L. Sensitive Fern
Shores.
- ***ANTHYRIUM FILIX-FEMINA** (L.) ROTH
Lady Fern
Moist soil under shrubbery. Jenkins
specimen in DAO.

PINACEAE

- THUJA OCCIDENTALIS** L. White Cedar
A few in main area.

ZOSTERACEAE

- ***POTAMOGETON GRAMINEUS** L. Pondweed
In water at a few locations.

HYDROCHARITACEAE

- ***ELODEA CANADENSIS** MICHX. Water-
weed
Jenkins specimen, DAO.

GRAMINEAE

- POA COMPRESSA** L. Canada Bluegrass
Frequent in main area.
- P. PRATENSIS** L. Kentucky Bluegrass
Common, forming turf.
- ***P. PALUSTRIS** L. Fowl Meadow Grass
Common in the grass cover.
- ***GLYCERIA GRANDIS** S. WATS. Reed
Meadow Grass
From near shore on low ground. Horner
& Frankton.
- DACTYLIS GLOMERATA** L. Orchard Grass
General in shade.
- ***ERAGROSTIS POAEOIDES** BEAUV. Love
Grass
In shade of bridge.
- ***AGROPYRON REPENS** (L.) BEAUV. Love
Grass
Quite common.
- ***ELYMUS VIRGINICUS** L. Lyme Grass
Common.
- ***SPHENOPHOLIS INTERMEDIA** RYDB.
Wedge Grass
Little noticed.
- ***CALAMAGROSTIS CANADENSIS** (MICHX.)
NUTT. Blue Joint
Abundant along shores.
- ***AGROSTIS GIGANTEA** ROTH. Black Bent
A few noticed.

- ***A. ALBA** L. VAR. **PALUSTRIS** (HUDS.)
PERS. Creeping Bent Grass
Low shores.

- ***A. SCABRA** WILLD. Hair Grass
Mostly near shores.

- ***A. PERENNANS** (WALT.) TUCKERM. Up-
land Bent Grass
Abundant.

- PHLEUM PRATENSE** L. Timothy
Common on main area.

- ***ALOPECURUS AEQUALIS** SOBOL. Foxtail
One collection by Jenkins, DAO.

- ***MUHLENBERGIA MEXICANA** (L.) TRIN.
f. **SETIGLUMIS** (S. WATS.) FERN. Drop-
seed
Abundant along shores.

- ***SPARTINA PECTINATA** LINK. Cord Grass
Infrequent, at shores.

- ***DIGITARIA SANGUINALIS** (L.) SCOP.
Crab Grass
Infrequent, at shores.

- ***PANICUM CAPILLARE** L. Old Witch Grass
Common along shores.

- ***P. LANUGINOSUM** ELL. Panic Grass
Common. Shores.

- ***SETARIA GLAUCA** (L.) BEAUV. Yellow
Foxtail
Infrequent. Bridge area.

- ***ANDROPOGON GERARDII** VITMAN. Beard
Grass
Occasional at lower end.

CYPERACEAE

- ***CYPERUS STRIGOSUS** L. Galingale
One collection by Jenkins, DAO. More
on Riopelle Island.

- ***ELEOCHARIS CALVA** TORR. (probably)

- ***E. SMALLII** BRITT. Spike Rush
Mud at lower end.

- ***E. COMPRESSA** SULLIV.
Mud at lower end.

- ***FIMBRISTYLIS AUTUMNALIS** (L.) R. & S.
A colony on mud at lower end. An
earlier specimen in DAO from Britan-
nia, Ont., and one in Nat. Herb. from
Quyon, Que., just outside the Ottawa
District, are the nearest local collections
found.

- ***SCIRPUS ACUTUS** MUHL. Bulrush
Common on muddy lower end.

- ***S. CYPERINUS** (L.) KUNTH. VAR. **PELIUS**
FERN. Wool Grass
Mud at lower end.

- ***S. ATROTINCTUS** FERN.
One collection by Jenkins, DAO.

***CAREX ROSEA** SCHKUHR. Sedge (as also others below).

This and the others generally on main area away from shore.

***C. CEPHALOIDEA** DEWEY.

***C. SPARGANIOIDES** MUHL.

***C. ALOPECOIDEA** TUCKERM.

***C. VULPINOIDEA** MICHX. Jenkins, DAO.

***C. TRIBULOIDES** WAHLENB.

***C. TENERA** DEWEY.

***C. LENTICULARIS** MICHX.

***C. PECKII** HOWE

***C. LANUGINOSA** MICHX.

***C. GRACILLIMA** SCHWEIN. Jenkins, DAO.

***C. ARCTATA** BOOTT

***C. SPRENGELII** DEWEY

***C. BLANDA** DEWEY

***C. VIRIDULA** MICHX.

***C. RETRORSA** SCHKUHR

***C. VESICARIA** L.

***C. sp.** (Sect. LAXIFLORAE)

***C. sp.** (probably Sect. BRACTEATAE)

ARACEAE

ARISAEMA ATRORUBENS (AIT.) BLUME.
Jack-in-the-Pulpit

A few in parts of main area.

JUNCACEAE

***JUNCUS NODOSUS** L. Rush
Common at muddy lower end.

LILIACEAE

SMILACINA RACEMOSA (L.) DESF.
False Spikenard
A few clumps in main area.

POLYGONATUM PUBESCENS (WILLD.)
PURSH. Solomon's Seal
Frequent in main area.

SMILAX HERBACEA L. Carrion-flower
Abundant, mostly in shrubbery of main area.

IRIDACEAE

***SISYRINCHIUM MONTANUM** GREENE.
Blue-eyed Grass
One collection H. & F. 33.

***S. ANGUSTIFOLIUM** MILL. Blue-eyed Grass
Common on main area.

IRIS VERSICOLOR L. Blue Flag
Rocky shores. Frequent.

SALICACEAE

***SALIX NIGRA** MARSH. Black Willow

***S. SERISSIMA** (BAILEY) FERN.

***S. INTERIOR** ROWLEE.

***S. DISCOLOR** MUHL. Pussy Willow

***S. PETIOLARIS** SM.

All willows sparingly along shores.

POPULUS TREMULOIDES MICHX. Aspen Poplar

Occasional on main area.

P. BALSAMIFERA L. Balsam Poplar
A few at lower end.

MYRICACEAE

***MYRICA GALE** L. Sweet Gale

Abundant at lower end in mud and into water.

JUGLANDACEAE

CARYA CORDIFORMIS (WANG.) K. KOCH.
Bitternut Hickory
Occasional on main area.

CORYLACEAE

OSTRYA VIRGINIANA (MILL.) K. KOCH.
Ironwood
Common on main area.

CARPINUS CAROLINIANA WALT. Blue Beech
Mostly at lower end with other trees and shrubs.

***ALNUS RUGOSA** (DuROI) SPRENG.
Speckled Alder
Rocky shore of lower end.

FAGACEAE

QUERCUS MACROCARPA MICHX. Mossycup Oak
Common on main area.

Q. RUBRA L. Red Oak.
Common on main area.

ULMACEAE

***ULMUS RUBRA** MUHL. Slippery Elm
Rather common formerly; only hollow stumps now, with sprouts from the live circumference to provide identification.

U. AMERICANA L. American Elm
Common throughout main area.

URTICACEAE

***PILEA PUMILA** (L.) GRAY. Clearweed
In shade of bridge.

BOEHMERIA CYLINDRICA (L.) SW. Bog Hemp.
One collection near bridge.

POLYGONACEAE

- RUMEX CRISPUS** L. Curled Dock
Mostly near shore.
- ***R. SP.** A swamp dock?
- POLYGONUM AVICULARE** L. Knotweed
In thin sod at base of trees, main area.
- ***P. AMPHIBIUM** L. Water Smartweed
Main area and in shade of bridge.
- P. PERSICARIA** L. Lady's Thumb
Main area or near shore.
- P. CONVULVULUS** L. Wild Buckwheat
One collection near bridge.

CHENOPODIACEAE

- ***CHENOPODIUM HYBRIDUM** L. VAR. **GIGANTOSPERMUM** (AELEN) ROULEAU. Maple-leaved Goosefoot
Main area near bridge.
- C. ALBUM** L. Lamb's Quarters
Near bridge sparingly.
- C. CAPITATUM** (L.) ASCHERS. Strawberry-blite
Young leaf rosettes only, on shore at bridge.

CARYOPHYLLACEAE

- ARENARIA LATERIFLORA** L. Sandwort
Main area near shore. Frequent.
- STELLARIA GRAMINEA** L. Common Stitchwort
Occasional near shore.
- CERASTIUM VULGATUM** L. Common Mouse-ear Chickweed
Seen sparingly on main area.
- SILENE CUCUBALUS** WIBEL. Bladder Campion
Mostly near bridge.
- SILENE NOCTIFLORA** L. Night-flowering Catchfly
Occasional on main area.

RANUNCULACEAE

- ***RANUNCULUS REPTANS** L. Creeping Spearwort
Alluvial deposits off lower end at low water.
- R. ABORTIVUS** L. Small-flowered Buttercup
Frequent on main area.
- R. ACRIS** L. Tall Buttercup
Common on main area.
- THALICTRUM POLYGAMUM** MUHL. Tall Meadow-rue
Near shores occasionally.

- ***ANEMONE RIPARIA** FERN. Thimbleweed
Frequent on main area.
- A. CANADENSIS** L. Canada Anemone
A few patches on main area.
- ACTAEA RUBRA** (AIT.) WILLD. Red Baneberry
One colony on main area to west.

CRUCIFERAE

- BRASSICA KABER** (D.C.) L.C. WHEELER VAR. **PINNATIFIDA** (STOKES) L.C. WHEELER. Wild Mustard
Very little, in shade of bridge.
- ERYSIMUM CHEIRANTHOIDES** L. Worm-seed Mustard
Around trees near bridge.
- BARBAREA VULGARIS** R.BR. Winter Cress
Occasional on main area.
- ***CARDAMINE PENNSYLVANICA** MUHL. Bitter Cress
Fairly common, mostly near shores.

SAXIFRAGACEAE

- RIBES AMERICANUM** MILL. Wild Black Currant
Occasional on main area.

ROSACEAE

- ***PYRUS SP.** Apple? Immature.
Main area in a few locations.
- ***AMELANCHIER SANGUINEA** (PURSH) D.C. Juneberry
Sparingly, on main area.
- CRATAEGUS SP.** Hawthorn. Immature.
Occasional on main area.
- FRAGARIA VIRGINIANA** DUCHESNE. Wild Strawberry
Common on main area.
- F. VESCA** L. VAR. **AMERICANA** PORTER. Woodland Strawberry
Less common on main area.
- ***POTENTILLA ARGENTEA** L. Silvery Cinquefoil
Sparingly at upper end on dry shallow soil.
- GEUM CANADENSE** JACQ. White Avens
Occasional, in shaded main area.
- ***G. ALLEPICUM** JACQ. VAR. **STRICTUM** (AIT.) FERN. Yellow Avens.
Occasional on main area.
- ***RUBUS ODORATUS** L. Purple Flowering Raspberry
Sparingly on main area.

R. IDAEUS L. VAR. STRIGOSUS (MICHX.)

MAXIM. Wild Red Raspberry
Fairly common on main area.

***R. OCCIDENTALIS L.** Black Raspberry
One collection so identified.

R. SP. Immature. Blackberry

***AGRIMONIA GRYPOSEPALA WALLR.**
Agrimony
A few near bridge.

***ROSA ACICULARIS LINDL.** Wild Rose
Sparingly near shore.

R. BLANDA AIT. Early Wild Rose
Sparingly near shore.

***PRUNUS PENSYLVANICA L. f.** Bird (Pin)
Cherry
Occasional on main area.

P. VIRGINIANA L. Choke Cherry
Occasional on main area.

LEGUMINOSAE

TRIFOLIUM REPENS L. White Clover
Common on main area.

T. HYBRIDUM L. Alsike Clover
Common on main area.

T. AGRARIUM L. Hop Clover
Common on main area.

***MELILOTUS ALBA DESR.** White Sweet
Clover
Occasional, especially near bridge.

***MEDICAGO SATIVA L.** Alfalfa
One collection by H. & F.

M. LUPULINA L. Black Medick
Common on main area.

VICIA CRACCA L. Tufted Vetch
Occasional on main area.

***V. AMERICANA MUHL.** American Vetch
One collection. Search of Nat. and DAO
Herb. failed to find another Ottawa Dis-
trict specimen.

***LATHYRUS PALUSTRIS L.** Vetchling
One collection on main area.

***APIOS AMERICANA MEDIC.** Groundnut
On shores at a few points.

AMPHICARPA BRACTEATA (L.) FERN.
Hog-peanut
On shores at a few points.

OXALIDACEAE

OXALIS EUROPAEA JORD. Wood Sorrel
Frequent on main area.

RUTACEAE

XANTHOXYLUM AMERICANUM MILL.
Prickly Ash
Abundant on parts of main area.

EUPHORBIACEAE

***MERCURIALIS ANNUA L.** Three-seeded
Mercury
Sparingly on shore.

ANACARDIACEAE

RHUS TYPHINA L. Staghorn Sumac
One location only, on main area.

RHUS RADICANS L. Poison Ivy
Common on various parts of main area.

CELASTRACEAE

CELASTRUS SCANDENS L. Climbing Bit-
tersweet
Common on main area with shrubbery.

ACERACEAE

ACER RUBRUM L. Red Maple
Occasional on main area.

RHAMNACEAE

***RHAMNUS CATHARTICA L.** Common
Buckthorn
One specimen near each end of main
area.

R. FRANGULA L. Alder Buckthorn
On main area, forming thickets near
lower end.

VITACEAE

PARTHENOCISSUS QUINQUEFOLIA (L.)
PLANCH. Virginia Creeper
Occasional on main area.

VITIS RIPARIA MICHX. River-bank Grape
On shores with shrubbery.

TILIACEAE

TILIA AMERICANA L. Basswood
Common on main area.

GUTTIFERAE

HYPERICUM PERFORATUM L. Common
St. John's-wort
Frequent on main area.

***H. ELLIPTICUM HOOK.** St. John's-wort
Muddy lower end.

***H. MAJUS (GRAY) BRITT.** St. John'swort
Muddy lower end.

VIOLACEAE

***VIOLA NEPHROPHYLLA GREENE.** Stem-
less Blue Violet
A few colonies on main area.

***V. SEPTENTRIONALIS GREENE.** Stemless
Blue Violet
One location on main area, not since
found.

- ***V. PENSYLVANICA** MICHX. Smooth Yellow Violet
Abundant on main area.
- ***V. CONSPERSA** REICHENB. Leafy Blue Violet
Occasional on main area.

ONAGRACEAE

- OENOTHERA BIENNIS** L. Evening Primrose
Occasional on main area.
- CIRCAEA QUADRISULCATA** (MAXIM.) FRANCH. & SAV. VAR. **CANADENSIS** (L.) HARA. Enchanter's Nightshade.

HALORAGIDACEAE

- ***MYRIOPHYLLUM ALTERNIFLORUM** D.C. Water Milfoil
Off-shore water.

UMBELLIFERAE

- ***SANICULA GREGARIA** BICKN. Black Snakeroot
Occasional on main area.
- OSMORHIZA CLAYTONI** (MICHX.) C. B. CLARKE. Sweet Cicely
Occasional on main area.
- SIUM SUAVE** WALT. Water Parsnip
Abundant on shores at low water.

CORNACEAE

- CORNUS STOLONIFERA** MICHX. Red Osier Dogwood
Common, mostly near shores.
- ***C. OBLIQUA** RAF. Silky Dogwood
A few colonies on rocky shores.
- ***C. RACEMOSA** LAM. Racemose Dogwood
On a rocky shore.

PRIMULACEAE

- ***LYSIMACHIA TERRESTRIS** (L.) B.S.P. Yellow Loosestrife
Abundant on shores.
- L. NUMMULARIA** L. Moneywort
Common creeper on moister parts of main area.
- L. CILIATA** L. Fringed Loosestrife
Common on shores.

OLEACEAE

- FRAXINUS PENNSYLVANICA** MARSH. Red Ash
One of the commoner trees on main area.
- F. AMERICANA** L. White Ash.
One seen.

APOCYNACEAE

- APOCYNUM SIBIRICUM** JACQ. Indian Hemp
Abundant on shores.

ASCLEPIADACEAE

- ***ASCLEPIAS INCARNATA** L. Swamp Milkweed
One collection near shore by H. & F.
- A. SYRIACA** L. Common Milkweed.
Occasional on main area

BORAGINACEAE

- LITHOSPERMUM OFFICINALE** L. Common Gromwell
Common on main area.

LABIATAE

- ***SCUTELLARIA LATERIFLORA** L. Mad-dog Skullcap
Along shores.
- ***S. PARVULA** MICHX. Small Skullcap
Near shores.
- NEPETA CATARIA** L. Catnip
A few clumps in shade of bridge.
- ***PRUNELLA VULGARIS** L. Selfheal
Occasional on main area.
- ***LEONURUS CARDIACA** L. Motherwort
A collection near bridge.
- ***LYCOPUS UNIFLORUS** MICHX. Bugleweed
Along shore.
- L. AMERICANUS** MUHL. Bugleweed
Common along shores.
- MENTHA ARVENSIS** L. VAR. **VILLOSA** (BENTH.) S. R. STEWART. Canada Mint
Common along shores.

SOLANACEAE

- ***SOLANUM AMERICANUM** MILL. Nightshade
A little, in shade of bridge.

SCROPHULARIACEAE

- ***LINARIA VULGARIS** HILL. Butter and Eggs; Toadflax
Common on main area.
- ***MIMULUS RINGENS** L. Monkey-flower
Occasional on shores.
- ***VERONICA SERPYLLIFOLIA** L. Thyme-leaved Speedwell
Sparingly on main area.
- ***V. SCUTELLATA** L. Marsh Speedwell
Frequent on shore at low water.

PLANTAGINACEAE

- PLANTAGO RUGELII** DCNE. Rugel's Plantain
Common, especially on shores.

RUBIACEAE

- ***GALIUM APARINE** L. Cleavers.
Mostly on main area near bridge.
- G. TRIFLORUM** MICHX. Sweet-scented Bedstraw
Common on main area.
- G. PALUSTRE** L. Marsh Bedstraw
Moister parts of main area.
- ***CEPHALANTHUS OCCIDENTALIS** L. Buttonbush
Covering much of lower end of island.

CAPRIFOLIACEAE

- ***LONICERA TATARICA** L. Tartarian Honeysuckle
Freely scattered over entire main area.
In pink and white forms.
- ***L. DIOICA** L. Honeysuckle
Occasional in main area.
- ***VIBURNUM LENTAGO** L. Nannyberry
Occasional in main area.
- V. RAFINESQUIANUM** SCHULTES. Downy Arrow-wood
Occasional in main area.
- ***V. TRILOBUM** MARSH. Highbush Cranberry
A few shrubs on ledge above west shore
— also on Lower Island.
- SAMBUCUS PUBENS** MICHX. Red-berried Elder.
Occasional in main area.

- ***LOBELIA CARDINALIS** L. Cardinal-flower
Frequent on shore at low water.
- ***L. INFLATA** L. Indian Tobacco
Occasional in main area.

COMPOSITAE

- EUPATORIUM MACULATUM** L. Joe-Pye-weed
Abundant on shores at low water.
- ***E. PERFOLIATUM** L. Boneset
Occasional on main area.
- E. RUGOSUM** Houtt. White Snakeroot
Mostly in shade of bridge.
- ***SOLIDAGO CAESIA** L. Blue-stem Goldenrod
On main area.
- ***S. SQUARROSA** MUHL. Stout Ragged Goldenrod
Scattered on main area.

- ***S. CANADENSIS** L. Canada Goldenrod
On main area.
- ***S. LEPIDA** D.C. Goldenrod
On main area.
- S. GRAMINIFOLIA** (L.) SALISB. Narrow-leaved Goldenrod
Occasional on main area.
- ***ASTER CORDIFOLIUS** L. Heart-leaved Aster
On main area.
- ***A. LATERIFLORUS** (L.) BRITT. Aster
On main area.
- ***A. ONTARIONIS** WIEG. Ontario Aster
Abundant on main area.
- ERIGERON PHILADELPHICUS** L. Philadelphia Fleabane
Occasional on main area.
- E. ANNUUS** (L.) PERS. Daisy Fleabane
Sparingly on main area.
- E. CANADENSIS** L. Canada Fleabane
Sparingly on main area.
- ANTENNARIA PETALOIDEA** FERN. Everlasting
One colony at upper end above shoreline. More on Riopelle Island.
- ***AMBROSIA ARTEMISIIFOLIA** L. Common Ragweed
A few plants only on main area near bridge.
- ***BIDENS VULGATA** GREENE. Beggar-ticks
A few plants beneath bridge.
- ***GALINSOGA CILIATA** (RAF.) BLAKE
A few plants beneath bridge.
- ACHILLEA MILLEFOLIUM** L. Common Yarrow
Common on main area.
- CHRYSANTHEMUM LEUCANTHEMUM** L.
VAR. **PINNATIFIDUM** LECOQ. & LA-MOTTE. Ox-eye Daisy
Sparingly, mostly near bridge.
- ARTEMISIA VULGARIS** L. Common Mugwort
A few plants, mostly near bridge.
- ARCTIUM MINUS** (HILL) BERNH. Common Burdock
A few plants, mostly near bridge.
- CIRSIUM VULGARE** (SAVI) TENORE. Bull Thistle
A few in leaf-rosette stage only. On shore at bridge.
- C. ARVENSE** (L.) SCOP. Canada Thistle
Occasional.

TARAXACUM OFFICINALE WEBER. Common Dandelion
Common on main area.

SONCHUS ASPER (L.) HILL. Spiny Annual Sow Thistle
Sparingly near bridge.

LACTUCA SCARIOLA L. Prickly Lettuce
Only in disturbed bridge area.

***HIERACIUM FLORENTINUM** ALL. King Devil
Common at upper end of main area.

Plants on Adjacent Riopelle and Lower Island (here so named) and not seen on Cunningham Island

EQUISITUM FLUVIATILE L. Pipes
Lower Island.

DRYOPTERIS THELYPTERIS (L.) GRAY
VAR. **PUBESCENS** (LAWSON) NAKAI
Marsh Fern.
Riopelle Island.

PINUS STROBUS L. White Pine
Riopelle Island.

TYPHA LATIFOLIA L. Cat-tail
Riopelle Island.

POTAMOGETON SPIRILLUS TUCKERM.
Pondweed
Riopelle Island.

SAGITTARIA LATIFOLIA WILLD. f. **GRACILIS** (PURSH) ROBINSON
Riopelle Island.

POPULUS DELTOIDES MARSH. Cottonwood
Riopelle Island.

BETULA PAPYRIFERA Marsh. White Birch
Riopelle Island.

LYTHRUM SALICARIA L. Purple Loosestrife
Lower Island.

EPILOBIUM GLANDULOSUM LEHM. VAR. **ADENOCaulon** (HAUSSK.) FERN.
Riopelle Island. In crevice of bridge wall.

CONVOLVULUS SEPIUM L. Wild Morning-glory
Lower Island.

CHELONE GLABRA L. Turtlehead
Riopelle Island.

TRIOSTEUM AURANTIACUM BICKN.
Feverwort
Riopelle Island. In 1927 reported on Cunningham Island.

HELENIUM AUTUMNALE L. Sneezeweed
Lower Island.

Plants of Cunningham Island, 1927.
Occurrence not substantiated in 1953.

BOTRYCHIUM SP. Grape Fern.

TAXUS CANADENSIS MARSH. Ground Hemlock.

BROMUS SP. Brome Grass.

URTICA PROCERA MUHL. Slender Nettle.

RUMEX ACETOSELLA L. Sheep Sorrel.

ATRIPLEX SP. Orach.

STELLARIA MEDIA (L.) CYRILL. Common Chickweed.

THALICTRUM DIOICUM L. Early Meadow-rue.

MENISPERMUM CANADENSE L. Canada Moonseed.

CORYDALIS AUREA WILLD. Golden Corydalis.

FUMARIA OFFICINALIS L. Common Fumitory

SISYMBRIUM OFFICINALIS (L.) SCOP. Hedge Mustard.

CAPSELLA BURSA-PASTORIS (L.) MEDIC. Shepherd's Purse.

PENTHORUM SEDOIDES L. Ditch Stonecrop.

POTENTILLA NORVEGICA L. Rough Cinquefoil.

TRIFOLIUM PRATENSE L. Red Clover.

DESMODIUM SP. Tick Trefoil.

IMPATIENS CAPENSIS MEERB. Spotted Touch-me-not.

VIOLA CANADENSIS L. Canada Violet.

EPILOBIUM ANGUSTIFOLIUM L. Fireweed.

LAPPULA SP. Bluebur.

VERBASCUM THAPSUS L. Common Mullein.

PLANTAGO MAJOR L. Common Plantain.

TRIOSTEUM AURANTIACUM BICKN.
Feverwort.

SYMPHORICARPUS ALBUS (L.) BLAKE.
Snowberry.

ANAPHALIS MARGARITACEA (L.)
BENTH. VAR. **INTERCEDENS** HARA.
Pearly Everlasting.

SENECIO SP. Ragwort.

TARAXACUM ERYTHROSPERMUM
ANDRZ. Red-seeded Dandelion.

PRENANTHES SP. Rattlesnake-root.

The second list, plants seen only on adjacent islands, is reasonably supplementary to the main list since absence from it can be little more than fortuitous. For plants occurring on each, as the majority do, there are differences of incidence but not such as to suggest dissimilar ecology.

The third list is of plants recorded in 1927 but not again found on Cunningham Island. They may be casualties of the interval as, for instance, *Corydalis* and *Fumaria*, which have also failed to be found where they had been known on the mainland nearby. *Triosteum* may have been on both islands formerly. With more careful separation from the species found Common Plantain and Red-seeded Dandelion could perhaps have been shown still present. Misidentifications cannot be ruled out entirely and seem a probability in the case of *Melilotus* which had been listed before, no doubt without benefit of flowers, as the yellow species.

Summary

Plants distinguished (with a few exceptions) to the species — 232, as against 140 in 1927.

Plants seen on the two adjacent islands only would, if included, bring the total to 246.

More critical collection of some genera, i.e. *Salix*, *Rubus* and among the grasses and sedges, could very well extend the list, and is a challenge to workers in such groups.

Plants in the 1927 list not again accounted for number 30. This, together with the lengthened list of 1953 indicates, undoubtedly, some actual losses and gains of species but it would not be easy to say how much, particularly of gain, in view of unequal closeness of survey at the two dates.

One of the interesting outcomes of the project is its demonstration of how extensive an association of plants is possible on so few acres.

A rough breakdown of the flora to its main habitats is about as follows:

Main dry area of island	55%
Rocky shoreline	23%
Sediment of lower end	11%
Modified environs of bridge ...	8%
Water off-shore	3%

It appears that trees and shrubs, in similar number of species, form nearly one fifth of the list. Grasses and sedges, also about equally divided, form another fifth. Compositae to the number of 30, are somewhat short of one fifth. Thus these three groups alone comprise more than half of all species.

BIRD OBSERVATIONS FROM SOUTHERN KEEWATIN AND THE INTERIOR OF NORTHERN MANITOBA¹

FARLEY M. MOWAT and ANDREW H. LAWRIE

Toronto, Ont.

DURING the years 1947 to 1949 the authors spent a substantial period in the interior of southern and central Keewatin District and in adjacent areas of northern Manitoba. The bird observations made during these years are presented here as a contribution to the rather meagre knowledge of the avifauna of these regions.

During 1947, observations were made by Mowat in the vicinity of Nuelatin Lake; on the Thlewiaza River; and on the canoe routes

from Nuelatin Lake south to Brochet on Reindeer Lake. During 1948, both authors worked together at Nuelatin Lake and in the vicinity of Angikuni Lake, while Lawrie spent some time alone at Nuelatin in late autumn, and Mowat spent a similar length of time alone at Brochet. In 1949, Lawrie, accompanied by D. Peterson, made observations at Beverly Lake, Nuelatin Lake and Baker Lake. Table 1 gives a chronological chart showing the locations of the observers for specific dates.

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