

UNIVERSITY OF MICHIGAN

MUSEUM OF ZOOLOGY

**Miscellaneous Publications No. 5**

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**Contributions to the Botany of  
Michigan, II**

BY

C. K. DODGE

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ANN ARBOR, MICHIGAN

PUBLISHED BY THE UNIVERSITY

JULY 13, 1918



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## ADVERTISEMENT

The publications of the Museum of Zoology, University of Michigan, consist of two series—the Occasional Papers and the Miscellaneous Publications. Both series were founded and are being supported by Dr. Bryant Walker, Mr. Bradshaw H. Swales and Dr. W. W. Newcomb, except that the cost of the illustrations and of distribution are borne by the University.

The Occasional Papers, publication of which was begun in 1913, serve as a medium for the publication of brief original papers based principally upon the collections in the Museum. The papers are issued separately to libraries and specialists, and, when a sufficient number of pages have been printed to make a volume, a title page and table of contents are supplied to libraries and individuals on the mailing list for the entire series.

The Miscellaneous Publications include papers on field and museum technique, monographic studies and other papers not within the scope of the Occasional Papers. The papers are published separately, and, as it is not intended that they shall be grouped into volumes, each number has a title page and table of contents.

ALEXANDER G. RUTHVEN,  
Director of the Museum of Zoology,  
University of Michigan.

OBSERVATIONS ON THE FLOWERING PLANTS, FERNS AND  
FERN ALLIES GROWING WILD IN MARQUETTE COUNTY,  
MICHIGAN, IN 1916 AND 1917, ESPECIALLY IN THE VI-  
CINITY OF THE HURON MOUNTAIN CLUB

BY CHARLES KEENE DODGE

INTRODUCTORY NOTE

The manuscript of this paper was completed by Mr. Dodge shortly before his death. It represents the results of several field trips to Marquette County, the last in the spring of 1917, in the course of an investigation of the phanerogamic flora of the state upon which he had been engaged for the Michigan Geological and Biological Survey. Two trips were made to the Huron Mountains, in the summer of 1916 and the early spring of 1917, and on the second trip Mr. Dodge was accompanied by Mr. B. Gladewitz. The mountains are specifically mentioned as a locality in the paper for the convenience of the summer residents, and a map of the part most carefully worked is appended.

The paper has been edited for publication by Messrs. C. Billington and B. Gladewitz.

ALEXANDER G. RUTHVEN.

LIST OF SPECIES

POLYPODIACEAE

*Polypodium vulgare* L. Common Polypody.—Rocky, usually shaded ground, often protruding from cracks and crevices of rocks on Huron Mountain, a large granitic hill near Huron Mountain Club, and in rocky places throughout Marquette County. Often abundant.

*Phegopteris polypodioides* Fée. (*Dryopteris phegopteris* L., C. Chr.). Long Beech Fern.—Rich woods and shaded banks of small streams near Huron Mountain Club and throughout Marquette County. Plentiful.

*Phegopteris Dryopteris* (L.) Fée. (*Dryopteris dryopteris* L., Britton). Oak Fern.—Rich moist woods near Huron Mountain Club and throughout Marquette County. Often abundant.

*Adiantum pedatum* L. Maidenhair Fern.—Rich shaded ground throughout. Plentiful along Salmon Trout River near Huron Mountain Club.

*Pteris aquilina* L. (*Pteridium aquilinum* L., Kuhn). Common Brake.—Dry, sandy, open or partially shaded ground near Huron Mountain Club. Plentiful throughout. Often in swamps.

*Asplenium Trichomanes* L. Maidenhair Spleenwort.—Cracks and crevices of perpendicular rocks at Canyon Lake near Huron Mountain Club, and probably on shaded rocks throughout. Noted by B. Gladewitz.

*Asplenium acrostichoides* Sw. (*Athyrium thelypteroides* Michx., Desv.). Silvery Spleenwort.—Rich shaded ground near Negaunee. Perhaps frequent throughout.

*Asplenium Filix-femina* (L.) Bernh. (*Athyrium filix-foemina* L., Roth.). Lady Fern.—Rich open or shaded ground near Huron Mountain Club. Abundant throughout.

*Polystichum acrostichoides* (Michx.) Schott. Christmas Fern.—Rich woods and shaded rocky ground about Sugar Loaf Mountain near Marquette. Very probably to be found throughout the county. Apparently infrequent.

*Polystichum Braunii* (Spenner) Fée. Braun's Holly Fern.—Occasional throughout, but plentiful in rich shaded ground along Salmon Trout River near Huron Mountain Club.

*Aspidium Thelypteris* (L.) Sw. (*Dryopteris thelypteris* L., A. Gray). Marsh Shield Fern.—Marshy open or partially shaded ground near Huron Mountain Club. Plentiful and often abundant throughout.

*Aspidium noveboracense* (L.) Sw. (*Dryopteris noveboracensis* L., A. Gray). New York Fern.—Rich woods about Sugar Loaf Mountain near Marquette. Apparently infrequent.

*Aspidium fragrans* (L.) Sw. (*Dryopteris fragrans* L., Schott.). Fragrant Shield Fern.—Rocky granitic hills about Huron Mountain Club. Apparently infrequent. Noted by Mrs. Wallace Radcliffe.

*Aspidium marginale* (L.) Sw. (*Dryopteris marginalis* L., A. Gray). Evergreen Wood Fern.—Rich shaded ground throughout. Observed in particular as plentiful on wooded sides of Huron Mountain near Huron Mountain Club.

*Aspidium Boottii* Tuckerm. (*Dryopteris Boottii* Tuckerm., Underw.). Boott's Shield Fern.—Damp shaded ground near Negaunee. Apparently infrequent.

*Aspidium cristatum* (L.) Sw. (*Dryopteris cristata* L., A. Gray). Crested Shield Fern.—Damp open or partially shaded ground near Huron Mountain Club. Probably frequent throughout.

*Aspidium spinulosum* (O. F. Müller) Sw. (*Dryopteris spinulosa* Muell., Kuntze.). Spinulose Shield Fern.—In hardwoods near Huron Mountain Club. Common throughout.

*Aspidium spinulosum intermedium* (Muhl.) D. C. Eaton. (*Dryopteris intermedia* Muhl., Gray). American Shield Fern.—Frequent in damp rich woods near Huron Mountain Club and throughout.

*Cystopteris bulbifera* (L.) Bernh. (*Filix bulbifera* L., Underw.). Bulblet Cystopteris.—Shaded rocky ravines about Marquette and Huron Mountain Club. Plentiful.

*Cystopteris fragilis* (L.) Bernh. (*Filix fragilis* L., Underw.). Brittle Fern.—Rich woods and shaded rocks near Huron Mountain Club and about Marquette. Plentiful. A delicate little fern.

*Woodsia ilvensis* (L.) R. Br. Rusty Woodsia.—Cracks and crevices of rocks on Huron Mountain near Huron Mountain Club. Plentiful.

*Woodsia obtusa* (Spreng.) Torr. Blunt-lobed Woodsia.—In crevices and crevices of rocks on Sugar Loaf Mountain near Marquette. Abundant. Probably to be found throughout.

*Onoclea sensibilis* L. Sensitive Fern.—Damp open or partially shaded ground near Huron Mountain Club. Plentiful throughout.

*Onoclea Struthiopteris* (L.) Hoffm. (*Matteuccia Struthiopteris* L., Todaro). Ostrich Fern.—Near Huron Mountain Club in alluvial ground, along small streams and in damp rich partially shaded ground. Frequent throughout. A fine fern for cultivation.

## OSMUNDACEAE

*Osmunda regalis* L. Royal Fern.—Wet rich shaded ground near Huron Mountain Club. Plentiful throughout.

*Osmunda Claytoniana* L. Clayton's Fern, Interrupted Fern.—Damp rich open or partially shaded ground near Huron Mountain Club. A large and beautiful fern. Frequent.

*Osmunda cinnamomea* L. Cinnamon Fern.—Open or partially shaded places near Huron Mountain Club. Frequent throughout.

## OPHIOGLOSSACEAE

*Botrychium virginianum* (L.) Sw. Rattlesnake Fern, Virginia Grape Fern.—Rich shaded ground near Huron Mountain Club. Frequent throughout.

## EQUISETACEAE

*Equisetum arvense* L. Common Horsetail.—In damp, dry, sandy, open or shaded ground near Huron Mountain Club. Common throughout. Often acting as an efficient sand binder.

*Equisetum sylvaticum* L. Wood Horsetail.—Damp shaded ground near Huron Mountain Club. Frequent throughout.

*Equisetum fluviatile* L. Swamp Horsetail.—Near Huron Mountain Club in very wet places, or still shallow water. Common.

*Equisetum hyemale intermedium* A. A. Eaton. (*E. hyemale* L.). Scouring Rush.—Dry open or shaded ground near Huron Mountain Club. Frequent and in spots abundant throughout, often acting as an efficient sand binder.

*Equisetum variegatum* Schleich. Variegated Equisetum.—Lake shores near Huron Mountain Club. Frequent throughout.

## LYCOPODIACEAE

*Lycopodium lucidulum* Michx. Shining Club Moss.—Damp shaded ground near Huron Mountain Club. Frequent throughout.

*Lycopodium inundatum* L. Bog Club Moss.—Damp sandy open or partially shaded ground near Huron Mountain Club. Frequent throughout.

*Lycopodium annotinum* L. Stiff Club Moss.—Open hardwoods near Huron Mountain Club. Plentiful and often abundant throughout.

*Lycopodium clavatum* L. Common Club Moss, Christmas Green.—Dry, shaded ground near Huron Mountain Club. Frequent and often abundant throughout.

*Lycopodium obscurum* L. Ground Pine.—Rich shaded ground, usually in woods. Apparently frequent near Huron Mountain Club and throughout. It appears to be difficult to distinguish this from the following.

*Lycopodium obscurum dendroideum* (Michx.) D. C. Eaton. Tree-like Club Moss.—Woods about Huron Mountain Club, and plentiful throughout. Included by many botanists in the preceding.

*Lycopodium tristachyum* Pursh. Festoon Ground Pine, Ground Pine.—In sandy ground among pines near Huron Mountain Club and plentiful throughout.

#### SELAGINELLACEAE

*Selaginella rupestris* (L.) Spring. Rock Selaginella.—Dry rocks at the "Fortress" on Huron Mountain, near Huron Mountain Club. Plentiful throughout in similar situations.

*Selaginella apus* (L.) Spring. Creeping Selaginella.—Damp, mostly shaded ground near Huron Mountain Club. Plentiful throughout.

#### ISOETACEAE

*Isoetes macrospora* Dur. Lake Quillwort.—In shallow water on margin of Rush Lake near Huron Mountain Club. Abundant. Perhaps to be found in most of the small lakes in the county.

#### TAXACEAE

*Taxus canadensis* Marsh. American Yew, Ground Hemlock.—A low evergreen straggling shrub with diffuse stems in hardwoods near Huron Mountain Club. Plentiful throughout.

#### PINACEAE

*Pinus Strobus* L. White Pine.—A few large trees left among hardwoods near Huron Mountain Club and throughout the county. Often a very large tree from 70 to 175 feet high with a trunk diameter from one and one-half to ten and one-half feet. Various common names have been given it by land lookers, lumbermen and others. Fat pine is the old resinous part taken from stumps and old logs and used for fuel. Cork pine is applied to very large and old trees with soft wood. A large tree, free from limbs and containing several logs of sixteen feet each, is called by land cruisers sap pine, and one with limbs on the body nearly to the ground, buckwheat pine.

*Pinus Banksiana* Lamb. Jack Pine.—Usually in dry sandy ground. Plentiful near Huron Mountain Club and throughout.

*Pinus resinosa* Ait. Red Pine, Norway Pine.—In dry sandy ground near Huron Mountain Club. Plentiful throughout. A tree, with body free from limbs, containing several logs of sixteen feet each is known as yellow pine



by land cruisers, one with limbs near the ground, buckwheat pine. When logs of this species are or become so heavy as to sink in water many lumbermen call them pig-iron pine.

*Larix laricina* (Du Roi) Koch. Tamarack, American Larch.—In swamps near Huron Mountain Club and frequent throughout.

*Picea canadensis* (Mill.) BSP. White Spruce.—Dry ground often on margins of hardwoods near Huron Mountain Club. Frequent throughout.

*Picea mariana* (Mill.) BSP. Black Spruce.—Usually in swamps with tamaracks and noted near Huron Mountain Club. Plentiful throughout in such situations.

*Abies balsamea* (L.) Mill. Balsam Fir, Balsam.—In and on the margin of hardwoods near Huron Mountain Club. Frequent throughout.

*Tsuga canadensis* (L.) Carr. Hemlock.—Often large trees on the margin of and in hardwoods near Huron Mountain Club. Plentiful throughout. Large trees are called yellow hemlock, and second growth white hemlock by land cruisers.

*Thuja occidentalis* L. White Cedar, Arbor Vitae.—In damp open hardwoods and swamps near Huron Mountain Club. Plentiful throughout. Formerly abundant in "cedar swamps", but lumbering and destructive fires have in many places nearly exterminated it. Small trees often grow on or near sandy beaches. As understood by land cruisers, second growth trees and those having bodies covered with limbs to or nearly to the ground are white cedar; those with tall smooth bodies mostly without limbs but with small tops are yellow cedar.

*Juniperus communis* L. Common Juniper.—On granitic hills near Huron Mountain Club. Small and apparently infrequent. The difference between this and the following, where the trees are mere shrubs, does not seem to be so very clear. This species when well developed is quite tree-like.

*Juniperus communis depressa* Pursh. (*J. Sibirica* Burgsd.) Low Juniper.—Near Huron Mountain Club along sandy beaches and in rocky places. Plentiful throughout.

## TYPHACEAE

*Typha latifolia* L. Common Cat-tail.—In wet marshy and swampy places near Huron Mountain Club. Plentiful throughout.

## SPARGANIACEAE

*Sparganium eurycarpum* Engelm. Broad-fruited Bur-reed.—Borders of ponds, lakes and streams near Huron Mountain Club. Plentiful throughout.

*Sparganium americanum androcladum* (Engelm.) Fernald & Eames. (*S. androcladum* Engelm., Morong.). Branching Bur-reed.—Third Pine Lake near Huron Mountain Club. Frequent throughout.

*Sparganium diversifolium acaule* (Beeby) Fernald & Eames. (*S. acaule* Beeby, Rydb.). Stemless Bur-reed.—Wet muddy places and in shallow water. Third Pine Lake, at the "Styx" near Huron Mountain Club, and probably frequent throughout.

## NAJADACEAE

*Potamogeton natans* L. Common Floating Pondweed.—In all the small lakes near Huron Mountain Club. Common throughout.

*Potamogeton epihydrus* Raf. Nuttall's Pondweed.—In small lakes near Huron Mountain Club. Frequent throughout.

*Potamogeton amplifolius* Tuckerm. Large-leaved Pondweed.—Common in small lakes near Huron Mountain Club and throughout.

*Potamogeton heterophyllus* Schreb. Various-leaved Pondweed.—Abundant in small lakes near Huron Mountain Club, and throughout.

*Potamogeton Richardsonii* (Benn.) Rydb. Richardson's Pondweed.—Common in the small lakes near Huron Mountain Club, and probably throughout.

*Potamogeton perfoliatus* L. Claspingleaved Pondweed.—Plentiful in small lakes near Huron Mountain Club and very probably throughout.

*Potamogeton zosterifolius* Schumacher. (*P. compressa* L.). Eel-grass Pondweed.—Abundant in small lakes near Huron Mountain Club and throughout.

*Potamogeton pusillus* L. Small Pondweed.—On margins of small lakes, in pools, ditches, small slow streams and ponds near Huron Mountain Club. Abundant throughout.

*Potamogeton dimorphus* Raf. Spiral Pondweed.—In small lakes near Huron Mountain Club and throughout. Plentiful.

*Najas flexilis* (Willd.) Rostk. & Schmidt. Slender Najas.—In shallow water of small lakes near Huron Mountain Club. Plentiful throughout.

## JUNCAGINACEAE

*Triglochin maritima* L. Seaside Arrow Grass.—Marshy open ground near Marquette. Apparently infrequent.

## ALISMACEAE

*Sagittaria latifolia* Willd. Broad-leaved Arrow-head.—In wet places and shallow water near Huron Mountain Club and Big Bay. Common throughout.

*Sagittaria graminea* Michx. Grass-leaved Sagittaria.—Third Pine Lake in shallow water by the "Styx" near Huron Mountain Club. Occasional throughout.

*Alisma Plantago-aquatica* L. (*Alisma Subcordatum* Raf.). American Water Plantain.—Shallow water on margins of small lakes, along small streams, in ponds and ditches near Huron Mountain Club. Plentiful throughout.

## HYDROCHARITACEAE

*Elodea canadensis* Michx. (*Philotria canadensis* Michx., Britton). Water-weed.—Common in water of small lakes, ponds and sluggish streams near Huron Mountain Club, and throughout.

*Vallisneria spiralis* L. Tape Grass, Wild Celery.—Common and often abundant in water of small lakes near Huron Mountain Club and throughout.

## GRAMINEAE

*Andropogon scoparius* Michx. (*Schizachyrium scoparium* Michx., Nash). Broom Beard Grass.—Dry sandy or rocky ground near Huron Mountain Club. Apparently infrequent.

*Andropogon furcatus* Muhl. Forked Beard Grass.—Dry open ground near Marquette. Apparently infrequent.

*Digitaria humifusa* Pers. (*Syntherisma ischaemum* Schreb., Nash). Small Crab Grass.—Cultivated and waste grounds in and about Marquette. Frequent.

*Digitaria sanguinalis* (L.) Scop. (*Syntherisma Sanguinale* L., Dulac.). Large Crab Grass, Finger Grass.—A weed in fields, gardens and waste places of cities and villages. Plentiful.

*Panicum capillare* L. Old Witch Grass.—In dry sandy ground as a weed in and about cities and villages. Often abundant.

*Panicum depauperatum* Muhl. Starved Panicum.—Dry sandy ground and on granitic rocky hills near Huron Mountain Club. Noted throughout as plentiful.

*Panicum huachucae* Ashe. Hairy Panic Grass.—Abundant on sandy beach of First Pine Lake near Huron Mountain Club. Plentiful throughout

*Panicum xanthophysum* Gray. Slender Panic Grass.—Rocky places on Huron Mountain near Huron Mountain Club. Probably frequent throughout.

*Echinochloa crusgalli* (L.) Beauv. Barnyard Grass.—A common weed in fields, gardens and waste places. Plentiful throughout. Prefers damp open ground. Variable.

*Echinochloa muricata* (Michx.) Fernald. Prostrate Cockspur Grass.—See Rhodora, 17, 198. June 1915. A grass not yet mentioned in the manuals. Prostrate, forming large mats in damp sand near Big Bay. Perhaps not always prostrate.

*Setaria glauca* (L.) Beauv. (*Chaetochloa glauca* L., Scribn.). Yellow Foxtail, Pigeon Grass.—A common weed in fields, gardens and waste places throughout.

*Setaria viridis* (L.) Beauv. (*Chaetochloa viridis* L., Scribn.). Green Foxtail Grass.—A common weed in fields, gardens and waste places throughout.

*Cenchrus carolinianus* Walt. Small Bur Grass.—In sandy open ground and waste places in and about cities and villages. Apparently infrequent.

*Zizania palustris* L. Wild Rice.—In shallow water of Third Pine Lake by the "Styx" near Huron Mountain Club. Apparently infrequent.

*Leersia oryzoides* (L.) Sw. (*Homalocenchrus oryzoides* L., Poll.). Rice Cut-grass, Scratch Grass.—Wet, usually open places about Marquette. Apparently infrequent.

*Phalaris arundinacea* L. Reed Canary Grass.—Open wet ground near Marquette. Frequent.

*Milium effusum* L. Tall Millet Grass.—In hardwoods about Huron Mountain Club. Plentiful throughout.

*Oryzopsis pungens* (Torr.) Hitchc. Slender Mountain Rice.—Dry sandy open ground near Huron Mountain Club. Plentiful throughout.

*Oryzopsis asperifolia* Michx. White-grained Mountain Rice.—In partially shaded ground, usually woods, near Huron Mountain Club. Frequent throughout.

*Muhlenbergia sylvatica* Torr. (*Muhlenbergia umbrosa* Scribn.). Wood-land Drop-seed.—Shaded ground near Big Bay. Apparently infrequent.

*Muhlenbergia racemosa* (Michx.) BSP. Satin Grass, Wild Timothy.—Borders of marshy places and in damp meadow-like ground about Marquette. Frequent throughout.

*Brachyelytrum erectum* (Schreb.) Beauv. Bearded Short-husk.—Damp rich shaded ground near Huron Mountain Club. Frequent throughout.

*Phleum pratense* L. Timothy.—Plentiful throughout as an escape from cultivation to roadsides and open woods.

*Alopecurus geniculatus aristulatus* Torr. (*A. Aristulatus* Michx.). Short-awned Foxtail.—Wet places and often in shallow water. Noted at Big Bay and near Negaunee. Frequent.

*Agrostis alba* L. Red Top.—Dry sandy places or in damp meadow-like ground. Frequent throughout.

*Agrostis hyemalis* (Walt.) BSP. Rough Hair Grass, Fool Hay.—Dry or damp, open or partially shaded ground near Huron Mountain Club and throughout.

*Calamovilfa longifolia* (Hook.) Hack. Long-leaved Reed Grass.—Sandy beach of Lake Superior near Huron Mountain Club and often on sand dunes along the Great Lakes acting as an efficient sand binder against the action of wind.

*Calamagrostis canadensis* (Michx.) Beauv. Blue-joint Grass.—Wet open marshy places near Huron Mountain Club. Plentiful throughout.

*Ammophila arenaria* (L.) Link. Sea Sand-reed.—Sandy beach of Lake Superior near Huron Mountain Club. One of the most efficient sand binders against the action of wind and wave. Common and often abundant along the Great Lakes.

*Cinna arundinacea* L. Wood Reed Grass.—On wooded hillsides of Huron Mountain near Huron Mountain Club. Frequent throughout.

*Cinna latifolia* (Trev.) Griseb.—Damp open woods near Huron Mountain Club. Apparently infrequent.

*Trisetum spicatum* (L.) Richter. Narrow False Oat.—Noted in rocky places about Marquette by the late Rev. E. J. Hill and reported in Beal's Michigan Flora.

*Deschampsia flexuosa* (L.) Trin. Wavy Hair Grass.—Open dry or partially shaded places near Huron Mountain Club. Frequent throughout.

*Danthonia spicata* (L.) Beauv. Common Wild Oat Grass.—Open dry and sterile ground near Huron Mountain Club. Common throughout.

*Phragmites communis* Trin. (*Phragmites phragmites* L., Karst.). Common Red Grass.—Borders of tamarack-black spruce swamps near Huron Mountain Club. Frequent throughout.

*Eragrostis pilosa* (L.) Beauv. Small Tufted Love Grass.—Dry open ground in Marquette and other cities and along railroads. Frequent.

*Eragrostis megastachya* (Koeler) Link. (*E. Major* Host.). Strong-scented Love Grass.—A frequent weed in gardens and waste places throughout.

*Melica Smithii* (Porter) Vasey. (*Avena Smithii* Porter). Smith's Oat.—Moist open woods near Huron Mountain Club. Apparently infrequent.

*Dactylis glomerata* L. Orchard Grass.—In cities and villages and along railroads. Frequent.

*Poa annua* L. Dwarf Meadow Grass.—A small grass growing in lawns and waste places throughout. Plentiful.

*Poa compressa* L. English Blue Grass.—In dry sterile open ground near Huron Mountain Club. Frequent throughout.

*Poa triflora* Gilib. Fowl Meadow Grass.—Damp open places near Big Bay. Apparently infrequent.

*Poa pratensis* L. Kentucky Blue Grass, June Grass.—The common grass of our lawns, fields, roadsides and open woods. Abundant.

*Poa alsodes* Gray. Grove Meadow Grass.—Roadsides near Big Bay. Apparently infrequent.

*Glyceria canadensis* (Michx.) Trin. (*Panicularia canadensis* Michx., Kuntze). Rattlesnake Grass.—Wet and boggy places near Huron Mountain Club. Plentiful throughout.

*Glyceria nervata* (Willd.) Trin. (*Panicularia nervata* Willd., Kuntze). Nerved Manna Grass, Meadow Grass.—Moist open or partially shaded ground near Huron Mountain Club. Plentiful throughout.

*Glyceria grandis* Wats. (*Panicularia grandis* S. Wats., Nash). Reed Meadow Grass.—Low banks of streams, ditches and wet meadow-like ground near Huron Mountain Club. Frequent throughout.

*Glyceria septentrionalis* Hitchc. (*Panicularia Septentrionalis* Hitchc., Bicknell). Floating Manna Grass.—In shallow water near Huron Mountain Club. Frequent throughout.

*Glyceria borealis* (Nash) Batchelder. (*Panicularia borealis* Nash). Northern Manna Grass.—In shallow water on border of Third Pine Lake at the "Styx" near Huron Mountain Club. Apparently infrequent.

*Festuca octoflora* Walt. Slender Fescue Grass.—Dry sterile open ground near Huron Mountain Club. Frequent throughout.

*Festuca ovina* L. Sheep's Fescue.—Along sandy beach near Huron Mountain Club. Frequent throughout.

*Festuca nutans* Spreng. Nodding Fescue Grass.—In and on borders of moist woods near Huron Mountain Club. Frequent throughout.

*Bromus secalinus* L. Common Chess.—About cities and villages and along railroads. Frequent.

*Bromus ciliatus* L. Fringed Brome Grass.—Moist shaded ground near Huron Mountain Club. Frequent throughout.

*Agropyron repens* (L.) Beauv. Quack Grass.—A vicious weed in fields, gardens and on roadsides throughout. Plentiful.

*Agropyron tenerum* Vasey. Slender Wheat Grass.—Sandy beach of Lake Superior near Huron Mountain Club. Plentiful.

*Hordeum jubatum* L. Squirrel-tail Grass.—In cities and villages as a weed. A grass introduced from the west.

*Elymus virginicus* L. Virginia Wild Rye.—Margins of small streams and hardwoods near Huron Mountain Club. Frequent throughout.

*Elymus canadensis* L. Nodding Wild Rye.—Dry sandy ground near Huron Mountain Club. Common throughout. Often plentiful along the sandy beaches of Lake Superior where it acts as an efficient sand binder.

*Hystrix patula* Moench. (*Hystrix hystrix* L., Millsp.). Bottle-brush Grass.—Moist shaded ground near Huron Mountain Club. Frequent throughout.

#### CYPERACEAE

*Dulichium arundinaceum* (L.) Britton. Dulichium.—Borders of ponds and in wet places near Huron Mountain Club. Frequent throughout.

*Eleocharis obtusa* (Willd.) Schultes. Blunt Spike Rush.—Wet open places near Huron Mountain Club. Noted in great abundance in wet sand near Big Bay.

*Eleocharis palustris* (L.) R. & S. Creeping Spike Rush.—In damp open ground and often in shallow water near Huron Mountain Club. Plentiful throughout.

*Eleocharis palustris vicens* Bailey. Large Spike Rush.—Usually in shallow water on borders of ponds and small lakes. Noticed in pastures as abundant on the margin of Rush Lake.

*Eleocharis acicularis* (L.) R. & S. Needle Spike Rush.—Wet muddy shores near Huron Mountain Club. Abundant throughout.

*Eleocharis tenuis* (Willd.) Schultes. Slender Spike Rush.—Damp open ground and marshy places. Frequent throughout.

*Scirpus hudsonianus* (Michx.) Fernald. (*Eriophorum alpinum* L.). Alpine Cotton Grass.—Wet marshy places near Marquette. Plentiful throughout.

*Scirpus subterminalis* Torr. Water Club Rush.—In shallow water on border of Mountain Lake near Huron Mountain Club. Probably frequent throughout.

*Scirpus americanus* Pers. Three Square.—Borders of ponds, streams and small lakes near Huron Mountain Club. Plentiful throughout. Stems sharply three-angled.

*Scirpus validus* Vahl. American Great Bulrush.—Margins of ponds, streams and small lakes near Huron Mountain Club. Plentiful throughout.

*Scirpus occidentalis* (Wats.) Chase. Viscid Great Bulrush.—Borders of lakes and often in 6 or 7 feet of water. Stems 6 to 10 feet long. Frequent throughout.

*Scirpus rubrotinctus* Fernald. (*S. microcarpus* Presl.). Small-fruited Bulrush.—Very wet open places near Marquette and Big Bay. Plentiful.

*Scirpus atrovirens* Muhl. Dark-green Bulrush.—Bogs and damp meadow-like ground near Huron Mountain Club. Plentiful throughout.

*Scirpus cyperinus pelius* Fernald. Wool Grass.—Open marshy or boggy ground near Huron Mountain Club. Abundant throughout. This is supposed to be included in *S. Cyperinus* (L.) Kuntze in Britton & Brown.

*Scirpus pedicellatus* Fernald. Pedicelled Wool Grass.—Marshy open or partially shaded ground near Huron Mountain Club. Frequent.

*Scirpus atrocinctus* Fernald. Fernald's Bulrush.—Damp meadow-like and swampy ground near Huron Mountain Club. Plentiful.

*Eriophorum callitrix* Cham. Sheathed Cotton Grass, Hare's Tail.—Open boggy ground near Huron Mountain Club. Frequent throughout.

*Eriophorum gracile* Roth. Slender Cotton Grass.—Wet open boggy places about Marquette. Frequent.

*Eriophorum angustifolium* Roth. Tall Cotton Grass.—Wet marshy open places near Marquette. Frequent.

*Eriophorum viridi-carinatum* (Engelm.) Fernald. Thin-leaved Cotton Grass.—Margin of and in open spots of tamarack-black spruce swamps near Huron Mountain Club. Frequent throughout.

*Eriophorum virginicum* L. Virginia Cotton Grass.—Damp open meadow-like or boggy ground near Huron Mountain Club. Plentiful throughout.

*Rynchospora alba* (L.) Vahl. White Beak Rush.—Open boggy ground near Marquette. Plentiful.

*Carex Crawfordii* Fernald. Crawford's Sedge.—Dryish open ground near Big Bay where it is plentiful.

*Carex tinctoria* Fernald. (*C. mirabilis tinctoria* Fernald). Stained Sedge.—Dry open or partially shaded ground near Big Bay. Plentiful.

*Carex aenea* Fernald. Fernald's Hay Sedge.—Dry open ground near Marquette. Plentiful.

*Carex angustiar* Mack. Narrow-fruited Sedge.—Open marshy ground near city of Marquette. Perhaps to be found throughout. This sedge has not yet appeared in the manuals.

*Carex canescens* L. Silvery Sedge.—Wet open places near Big Bay. Plentiful.

*Carex brunnescens* Poir. Brownish Sedge.—Open woods near Huron Mountain Club. Plentiful throughout.

*Carex Deweyana* Schwein. Dewey's Sedge.—Rich open woods near Huron Mountain Club. Plentiful throughout.

*Carex trisperma* Dewey. Three-fruited Sedge.—Boggy shaded ground near Huron Mountain Club. Plentiful throughout.

*Carex disperma* Dewey. (*C. tenella* Schkuhr.). Soft-leaved Sedge.—Damp rich woods and shaded swampy ground. Common throughout.

*Carex rosea* Schkuhr. Stellate Sedge.—Dry open woods near Marquette. Plentiful.

*Carex vulpinoidea* Michx. Fox Sedge.—Mostly damp low ground about Marquette. Plentiful.

*Carex diandra* Schrank. Lesser Panicked Sedge.—Open boggy ground near Huron Mountain Club. Frequent throughout.

*Carex stipata* Muhl. Awl-fruited Sedge.—Wet open or partial/ shaded places. Common throughout.

*Carex Sartwellii* Dewey. Sartwell's Sedge.—Wet boggy ground, often in shallow water about Marquette. Plentiful.

*Carex crinita* Lam. Fringed Sedge.—Rich wet shaded ground near Huron Mountain Club. Plentiful throughout.

*Carex aquatilis substricta* Kükenthal. Smaller Water Sedge.—Very wet open places near Huron Mountain Club and about Marquette. Plentiful.

*Carex hassei* Bailey. (*C. bicolor* All.) Hasse's Sedge.—Damp sandy open ground along shores near Huron Mountain Club. Frequent throughout.

*Carex leptalea* Wahlenb. Bristle-stalked Sedge.—Wet meadow-like ground and in boggy places near Huron Mountain Club. Abundant.

*Carex polygama* Schkuhr. (*C. Buxbaumii* Wahl.). Brown Sedge.—Wet marshy places near Huron Mountain Club. Frequent throughout.

*Carex stricta* Lam. Tussock Sedge.—Very wet open or partially shaded places near Huron Mountain Club and about Marquette. Frequent.

*Carex strictior* Dewey. Stiff Sedge.—Open marshy or damp meadow-like ground near Huron Mountain Club. Plentiful. This sedge has not yet appeared in the manuals.

*Carex gracillima* Schwein. Graceful Sedge.—Woods or any rich partially shaded ground near Huron Mountain Club. Frequent throughout.

*Carex tonsa* (Fernald) Bicknell. (*C. umbellata tonsa* Fernald). Deep-green Sedge.—On the upper sandy beach of Lake Superior near the Huron Mountain Club. Abundant. Grows in large mats.

*Carex peckii* F. C. Howe. (*C. albicans* Willd.). White-tinged Sedge.—Open woods and on rocky granitic hills near Huron Mountain Club. Plentiful throughout.

*Carex communis* Bailey. Fibrous-rooted Sedge.—Rich dry shaded ground near Huron Mountain Club. Plentiful throughout.

*Carex pennsylvanica* Lam. Pennsylvania Sedge.—Dry open sandy ground and on granitic hills near Huron Mountain Club. Plentiful throughout.

*Carex pedunculata* Muhl. Long-stalked Sedge.—Margin of hardwoods near Huron Mountain Club. Frequent.

*Carex leptoneuria* Fernald. (*C. laxiflora leptoneuria* Fernald.). Two-edged Sedge.—Rich open or partially shaded ground. Frequent throughout.

*Carex flava* L. Yellow Sedge.—Damp open places near Huron Mountain Club. Plentiful throughout.

*Carex arctata* Boott. Drooping Wood Sedge.—Rich shaded ground near Huron Mountain Club. Frequent throughout.

*Carex scabrata* Schwein. Rough Sedge.—In damp open or partially shaded ground near Huron Mountain Club. Plentiful throughout.

*Carex lasiocarpa* Ehrh. (*Carex filiformis* Good). Slender Sedge.—Wet meadow-like ground, boggy places and often in shallow water near Huron Mountain Club. Abundant throughout.

*Carex lanuginosa* Michx. Woolly Sedge.—Low meadow-like ground and wet places near Marquette. Plentiful.



*Carex Pseudo-Cyperus* L. Cyperus-like Sedge.—Wet open ground near Negaunee. Frequent.

*Carex hystericina* Muhl. (*C. hystericina* Muhl.). Porcupine Sedge.—Open wet ground and often in shallow water near Huron Mountain Club. Plentiful throughout.

*Carex retrorsa* Schwein. Retrorse Sedge.—Wet open or partially shaded ground near Huron Mountain Club. Plentiful throughout.

*Carex lupulina* Muhl. Hop Sedge.—Very wet open or shaded ground near Huron Mountain Club. Frequent throughout.

*Carex intumescens* Rudge. Bladder Sedge.—Damp open or partially shaded ground near Big Bay. Frequent throughout.

*Carex rostrata* Stokes. Beaked Sedge.—Wet swampy places, often in shallow water near Marquette. Frequent throughout.

*Carex Tuckermani* Dewey. Tuckerman's Sedge.—Damp rich open or partially shaded ground near Huron Mountain Club. Plentiful throughout.

## ARACEAE

*Arisaema triphyllum* (L.) Schott. Jack-in-the-pulpit, Indian Turnip.—Damp rich shaded ground near Huron Mountain Club. Plentiful throughout.

*Calla palustris* L. Wild Calla.—Very wet open or partially shaded places near Marquette. Plentiful throughout.

## LEMNACEAE

*Lemna minor* L. Lesser Duckweed.—Covering still shallow water near Big Bay. Probably frequent throughout.

## ERIOCAULACEAE

*Eriocaulon articulatum* (Huds.) Morong. (*E. septangulare* With.). Seven-angled Pipewort.—In damp sand, mud or shallow water on margin of small lakes near Huron Mountain Club. Common throughout.

## PONTEDERIACEAE

*Pontederia cordata* L. Pickerel Weed.—In shallow water of small lakes near Huron Mountain Club. Plentiful throughout.

## JUNCACEAE

*Juncus bufonius* L. Toad Rush.—Damp open ground, often along damp roadsides. Abundant throughout.

*Juncus tenuis* Willd. Slender Rush.—Common in fields, paths and on roadsides throughout.

*Juncus balticus littoralis* Engelm. Baltic Rush.—On sandy shores or in damp open ground. Frequent throughout. An efficient sand binder.

*Juncus effusus* L. Common Rush.—Marshy open ground. Common throughout.

*Juncus brachycephalus* (Engelm.) Buchenau. Small-headed Rush.—Wet marshy ground near Marquette. Plentiful throughout.

*Juncus brevicaudatus* (Engelm.) Fernald. Narrow-paniced Rush.—Wet or muddy places near Marquette. Plentiful.

*Juncus canadensis* J. Gay. Canada Rush.—Open marshy places near Huron Mountain Club. Plentiful throughout.

*Juncus pelocarpus* Mey. Brown-fruited Rush.—Wet swampy places and in damp sand on margin of small lakes near Huron Mountain Club. Plentiful throughout.

*Juncus nodosus* L. Knotted Rush.—Wet sandy ground and swampy places near Marquette. Frequent throughout.

## LILIACEAE

*Uvularia grandiflora* Sm. Large-flowered Bellwort.—Rich open woods along Salmon Trout River near Huron Mountain Club. Frequent throughout.

*Allium tricoccum* Ait. Wild Leek.—Hardwoods near Huron Mountain Club. Common throughout.

*Hemerocallis fulva* L. Common Day Lily.—Inclined to escape from cultivation and persist in cities and villages. Noticed throughout.

*Asparagus officinalis* L. Garden Asparagus.—Dry open sandy ground throughout. Frequent.

*Clintonia borealis* (Ait.) Raf. Yellow Clintonia.—Mostly in hardwoods near Huron Mountain Club. Plentiful throughout.

*Smilacina racemosa* (L.) Desf. (*Vagnera racemosa* L., Morong.). False Spikenard.—Moist rich shaded ground near Huron Mountain Club. Plentiful throughout.

*Smilacina stellata* (L.) Desf. (*Vagnera stellata* L., Morong.). Star-flowered Solomon's Seal.—Dry sandy open, or damp rich shaded ground near Huron Mountain Club. Often on sandy shores. Plentiful throughout.

*Smilacina trifolia* (L.) Desf. (*Vagnera trifolia* L., Morong.). Three-leaved Solomon's Seal.—Very wet or boggy open or partially shaded ground near Huron Mountain Club. Frequent throughout.

*Maianthemum canadense* Desf. (*Unifolium canadense* Desf., Greene.). Wild Lily of the Valley.—Rich shaded ground especially in hardwoods near Huron Mountain Club. Common throughout.

*Streptopus amplexifolius* (L.) DC. Clasping-leaved Twisted-stalk.—Moist shaded places especially along small streams near Huron Mountain Club. Frequent throughout.

*Streptopus roseus* Michx. Sessile-leaved Twisted-stalk.—A specimen in herbarum of Miss Nellie M. Fairbanks collected on Presque Isle at Marquette appears to be this species. Apparently infrequent.

*Streptopus longipes* Fernald. Fernald's Twisted-stalk.—In woods near Huron Mountain Club. Abundant throughout Marquette County.

*Polygonatum biflorum* (Walt.) Ell. Hairy Solomon's Seal.—Hardwoods near Huron Mountain Club. Plentiful throughout.

*Convallaria majalis* L. Lily of the Valley.—Inclined to escape from cultivation frequently and persist in cities and villages.

*Trillium sessile* L. Sessile-flowered Wake Robin.—In herbarium of Miss Nellie M. Fairbanks, collected on Presque Isle near city of Marquette. Apparently infrequent.

*Trillium grandiflorum* (Michx.) Salisb. Large-flowered Wake Robin.—Rich shaded ground especially in hardwoods. Plentiful throughout.

*Trillium cernuum* L. Nodding Wake Robin.—Rich shaded ground throughout. Noted in particular along Salmon Trout River near Huron Mountain Club.

## IRIDACEAE

*Iris versicolor* L. Large Blue Flag.—Wet open or partially shaded ground near Huron Mountain Club. Not rare throughout, but not noted as abundant anywhere.

*Sisyrinchium angustifolium* Mill. Pointed Blue-eyed Grass.—In meadow-like open ground and often in damp sandy places about city of Marquette. Probably frequent throughout.

## ORCHIDACEAE

*Cypripedium parviflorum* Salisb. Smaller Yellow Lady's Slipper.—Mostly in swampy or boggy places near Huron Mountain Club. Frequent throughout. Specimen in herbarium of Miss Nellie M. Fairbanks, Marquette.

*Cypripedium parviflorum pubescens* (Willd.) Knight. Larger Yellow Lady's Slipper.—Rich shaded ground especially in woods near Huron Mountain Club. Frequent throughout.

*Cypripedium hirsutum* Mill. (*C. reginae* Walt.). Showy Lady's Slipper.—In open or partially shaded swampy places about Marquette. Said to be frequent. Specimen in herbarium of Miss Nellie M. Fairbanks, Marquette.

*Cypripedium acaule* Ait. (*Fissipes acaulis* Ait., Small.). Stemless Lady's Slipper, Moccasin Flower.—Dry shaded places about Marquette. Frequent.

*Orchis rotundifolia* Banks. Small Round-leaved Orchis.—Noted in an open swampy place near Marquette by Thomas M. Danger of Port Huron, Michigan, and reported in the Michigan Flora.

*Orchis spectabilis* L. (*Galeorchis spectabilis* L., Rydb.). Showy Orchis.—Rich woods about Marquette, and reported as frequent. Specimen in herbarium of Miss Nellie M. Fairbanks, Marquette.

*Habenaria bracteata* (Willd.) R. Br. (*Coeloglossum bracteatum* Willd., Parl.). Long-bracted Orchis.—Damp shaded ground near Huron Mountain Club. Probably frequent throughout.

*Habenaria flava* (L.) Gray. (*Perularia flava* L., Farwell). Tubercled Orchis.—Wet open or partially shaded places near Huron Mountain Club. Probably frequent throughout.

*Habenaria hyperborea* (L.) R. Br. (*Limnorchis hyperborea* L., Rydb.). Tall Leafy Green Orchis.—Damp rich woods near Huron Mountain Club. Probably frequent throughout.

*Habenaria dilatata* (Pursh) Gray. (*Limnorchis dilatata* Pursh, Rydb.). Tall White Bog Orchis.—Damp open or partially shaded ground about Marquette. Said to be frequent throughout.

*Habenaria clavellata* (Michx.) Spreng. (*Gymnadeniopsis clavellata* Michx., Rydb.). Small Green Wood Orchis.—Damp or boggy open or partially shaded ground near Huron Mountain Club. Frequent throughout.

*Habenaria obtusata* (Pursh) Richards. (*Lysiella obtusata* Pursh, Richards). Small Northern Bog Orchis.—Swampy places and rich damp woods near Huron Mountain Club. Probably frequent throughout.

*Habenaria Hookeri* Torr. (*Lysias hookeriana* A. Gray, Rydb.). Hooker's Orchis.—Damp shaded ground near Sugar Loaf Mountain, a large rocky hill near Marquette. Said to be frequent throughout.

*Habenaria orbiculata* (Pursh) Torr. (*Lysias orbiculata* Pursh, Rydb.). Smaller Round-leaved Orchis.—Rich shaded ground especially in hardwoods near Huron Mountain Club. Probably frequent throughout.

*Habenaria psycodes* (L.) Sw. (*Blephariglottis psycodes* L., Rydb.). Smaller Purple-fringed Orchis.—Wet meadow-like ground and swampy places near Huron Mountain Club. Probably frequent throughout.

*Pogonia ophioglossoides* (L.) Ker. Rose Pogonia, Snake-mouth.—Boggy ground near Huron Mountain Club. Noted by Mrs. Wallace Radcliffe. Said to be frequent.

*Arethusa bulbosa* L. Arethusa, Dragon's-mouth.—Wet boggy places about the small lakes near Huron Mountain Club. Probably occasional throughout.

*Spiranthes cernua* (L.) Richard. (*Ibidium cernuum* L., House). Nodding Ladies' Tresses.—Summit of Huron Mountain, a large granitic hill near Huron Mountain Club. Probably frequent throughout.

*Epipactis repens ophioides* (Fernald) A. A. Eaton. (*Peramium ophioides* Fernald, Rydb.). Lesser Rattlesnake Plantain.—Damp hardwoods near Huron Mountain Club. Frequent throughout.

*Epipactis decipiens* (Hook.) Ames. (*Peramium decipiens* Hook., Piper). Menzie's Rattlesnake Plantain.—In hardwoods near Huron Mountain Club. Frequent throughout.

*Listera cordata* (L.) R. Br. (*Ohprys cordata* L.). Heart-leaved Tway-blade, Double-leaf.—In a swampy place about Mountain Lake near Huron Mountain Club. Probably frequent throughout.

*Corallorrhiza trifida* Chatelain. (*C. corallorrhiza* L., Karst.). Early Coral Root.—Damp shaded ground near Marquette. Probably frequent throughout. Specimen in herbarium of Miss Nellie M. Fairbanks, Marquette.

*Corallorrhiza maculata* Raf. Large Coral Root.—Rich woods near Huron Mountain Club. Probably frequent throughout.

*Corallorrhiza striata* Lindl. Striped Coral Root.—Rich shaded ground near Marquette. Occasional. Specimen in herbarium of Miss Nellie M. Fairbanks of Marquette.

## SALICACEAE

*Salix pentandra* L. Bay-leaved Willow.—Along lake shore in Marquette. Cultivated, not escaping.

*Salix lucida* Muhl. Shining Willow.—Wet open ground with other willows near Huron Mountain Club. Common throughout.

*Salix serissima* (Bailey) Fernald. Autumn Willow.—Near Marquette. Probably frequent throughout.

*Salix alba* L. White Willow.—In cities and villages. Planted for ornamental purposes, apparently not escaping.

*Salix alba vitellina* (L.) Koch. Golden Willow.—Occasionally cultivated in cities and villages but not permanently escaping. Noted at Marquette.

*Salix babylonica* L. Weeping Willow.—Cultivated as an ornamental tree in cities and villages but not permanently escaping.

*Salix longifolia* Muhl. (*S. interior* Rowlee). Sandbar Willow.—Along banks of streams and lake shores near Huron Mountain Club. Plentiful throughout.

*Salix cordata* Muhl. Heart-leaved Willow.—Banks of streams and in damp open places near Huron Mountain Club. Probably frequent throughout. Leaves usually not heart-shaped.

*Salix glaucophylla* Bebb. Broad-leaved Willow.—Lake shores near Huron Mountain Club. Plentiful throughout in similar habitats.

*Salix balsamifera* Barratt. (*S. pyrifolia* Anders.). Balsam Willow.—Border of First Pine Lake in low ground with other willows near Huron Mountain Club. Probably frequent throughout. Noted by B. Gladewitz.

*Salix syrticola* Fernald. (*S. adenophylla* Hook.). Furry Willow.—On and near sandy beach of Lake Superior near Huron Mountain Club. Plentiful.

*Salix pedicellaris* Pursh. Bog Willow.—In wet boggy open places near Huron Mountain Club. Probably frequent throughout.

*Salix discolor* Muhl. Glaucous Willow, Pussy Willow.—Low ground or low banks of streams near Huron Mountain Club. Common throughout.

*Salix petiolaris* Sm. Slender Willow.—Damp open ground especially on borders of small lakes and along banks of streams near Huron Mountain Club. Common throughout.

*Salix humilis* Marsh. Prairie Willow.—Dry open ground near Huron Mountain Club. Plentiful throughout.

*Salix rostrata* Richards. (*S. Bebbiana* Sarg.). Bebb's Willow.—Dry or low damp ground especially on lake borders near Huron Mountain Club. Common throughout.

*Salix candida* Flüggé. Hoary Willow, Sage Willow.—Marshy and boggy open ground about Marquette.

*Salix pellita* Anders. Satiny Willow.—Damp sandy shore of First Pine Lake near Huron Mountain Club. Probably occasional throughout. A rare willow.

*Populus alba* L. White Poplar.—Occasionally set out as a yard or street ornamental tree in cities and villages, but not escaping.

*Populus tremuloides* Michx. Common Poplar, American Aspen, Quiverleaf.—Dry or damp open ground near Huron Mountain Club. Frequent throughout but not noted as abundant anywhere.

*Populus grandidentata* Michx. Large-toothed Poplar, Large-toothed Aspen.—Bordering hardwoods near Huron Mountain Club. Plentiful throughout.

*Populus balsamifera* L. Balsam Poplar.—Occasional along the sandy beach of Lake Superior near Huron Mountain Club. Frequent throughout.

*Populus deltoides* Marsh. Cotton-wood.—Not native in Marquette County but a form of it is known as the Large-leaved Poplar or Carolina Poplar, often set out as a street tree in cities and villages.

*Populus nigra italica* Du Roi. (*P. italica* Moench.). Lombardy Poplar.—Occasionally set out in cities and villages as a street tree and often spreading by root. Introduced from Europe.

## MYRICACEAE

*Myrica Gale* L. Sweet Gale.—A shrub from three to five feet high in damp open ground along streams but mostly bordering the small lakes near Huron Mountain Club. Abundant throughout.

*Myrica asplenifolia* L. (*Comptonia peregrina* L., Coulter). Sweet Fern.—A shrub one to three feet high growing in dry sandy mostly open ground near Huron Mountain Club. Frequent, often abundant throughout.

## BETULACEAE

*Corylus rostrata* Ait. Beaked Hazelnut.—Rich open or partially shaded ground about Marquette and Big Bay. Plentiful throughout.

*Ostrya virginiana* (Mill.) K. Koch. Ironwood.—In hardwoods near Huron Mountain Club. Plentiful throughout.

*Betula lutea* Michx. f. Yellow Birch.—One of the principal trees in the extensive hardwood forests of the county. Lumbermen, woodsmen and land cruisers call the small trees with smooth bark yellow birch, the large ones with rough bark and red hard wood, red birch or cherry birch, the latter being much more valuable.

*Betula alba papyrifera* (Marsh.) Spach. (*B. papyrifera* Marsh.). Canoe Birch, White Birch.—With other trees near Huron Mountain Club. Frequent throughout.

*Betula pumila glandulifera* Regel. (*B. glandulifera* Regel, Butler). Glandular Low Birch.—Borders of tamarack-black spruce swamps near Huron Mountain Club. Frequent throughout.

*Alnus crispa* (Ait.) Pursh. Green Alder, Mountain Alder.—Borders of Rush Lake near Huron Mountain Club. Probably frequent throughout. This and the following species are much alike in general appearance.

*Alnus mollis* Fernald. Downy Green Alder.—Bordering woods near Huron Mountain Club, and near lighthouse at Marquette. Probably frequent throughout.

*Alnus incana* (L.) Moench. Speckled Alder.—Swamps and borders of streams near Huron Mountain Club. Common throughout.

## FAGACEAE

*Quercus rubra* L. Red Oak.—A large forest tree sometimes 140 feet high and 7 feet in diameter, the species is dwarfed on Huron Mountain and other rocky hills near Huron Mountain Club. Seldom abundant but to be found throughout with other trees in dry or damp rich ground.

*Quercus rubra ambigua* (Michx. f.) Fernald. (*Q. borealis* Michx. f.). Gray Oak, Northern Red Oak.—A few trees noted northwest of Marquette were thought to be this variety. According to systematists it is very close to the preceding and cannot be distinguished from it without perfect fruit and even then it is often very doubtful. Also thought to be on Grand Island, Alger County.

## URTICACEAE

*Ulmus americana* L. American Elm.—With other trees near Huron Mountain Club and throughout the county, along streams and in hardwoods.

*Cannabis sativa* L. Hemp.—Frequent about cities and villages throughout, persisting at least for a few years.

*Humulus Lupulus* L. Common Hop, Hops.—Common along banks of Salmon Trout River near Huron Mountain Club. Also noted on rocky bluffs at Marquette. Perhaps frequent throughout.

*Urtica gracilis* Ait. Slender Nettle.—Damp open or shaded ground about Marquette. Frequent throughout.

*Laportea canadensis* (L.) Gaud. (*Urticastrum divaricatum* L., Kuntze). Wood Nettle.—Open rich woods near Huron Mountain Club. Probably frequent throughout.

## SANTALACEAE

*Comandra Richardsiana* Fernald. Richards' Toad-flax.—Dry open or partially shaded ground near Huron Mountain Club. Frequent throughout.

## ARISTOLOCHIACEAE

*Asarum canadense* L. Wild Ginger.—Rich shaded ground near Marquette. In herbarium of Miss Nellie M. Fairbanks at Marquette. Said to be frequent.

## POLYGONACEAE

*Rumex Britannica* L. Great Water Dock.—Wet and swampy open places near Huron Mountain Club. Frequent throughout.

*Rumex crispus* L. Yellow Dock, Curled Dock.—In fields and on roadsides as a weed. Common throughout.

*Rumex mexicanus* Meisn. Willow-leaved Dock.—In rich dry sandy ground about Marquette and at Big Bay. Probably frequent throughout.

*Rumex obtusifolius* L. Broad-leaved Dock, Bitter Dock.—In fields, pastures, on roadsides and a common weed in waste places. Plentiful throughout.

*Rumex Acetosella* L. Field Sorrel.—A common weed in fields and waste places.

*Polygonum aviculare* L., Knot Grass, Door-weed.—Common as a weed in cities and villages, especially in yards, lawns and waste places.

*Polygonum erectum* L. Erect Knotweed.—On roadsides and in streets of cities, villages and in waste places. Plentiful throughout.

*Polygonum tenue* Michx. Slender Knotweed.—Dry open ground near Marquette, and on summit of Huron Mountain near Huron Mountain Club. Probably frequent throughout.

*Polygonum lapathifolium* L. (*Persicaria lapathifolia* L., S. F. Gray). Pale Persicaria.—Wet open places at Marquette and Big Bay. Frequent throughout.

*Polygonum amphibium* L. (*Persicaria amphibia* L., S. F. Gray). Water Persicaria.—Low banks of streams and small lakes and often in shallow water where it floats like a pondweed.

*Polygonum Hydropiper* L. (*Persicaria hydropiper* L., Opiz.). Common Smartweed.—Moist open or partially shaded ground near Marquette and at Big Bay. Probably frequent throughout.

*Polygonum acre* HBK. (*Persicaria punctata* Ell., Small). Water Smartweed.—Wet open places or often in shallow water near Marquette and at Big Bay. Frequent throughout.

*Polygonum Persicaria* L. (*Persicaria persicaria* L., Small.). Lady's Thumb.—Open damp ground, usually a weed in cities, villages and waste places. Common throughout.

*Polygonum hydropiperoides* Michx. (*Persicaria hydropiperoides* Michx., Small). Mild Water Pepper.—Margin of Independence Lake and in shallow water at Big Bay. Apparently infrequent.

*Polygonum sagittatum* L. (*Tracaulon sagittatum* L., Small.). Arrow-leaved Tear-thumb.—Low open or partially shaded ground about Marquette. Frequent throughout.

*Polygonum Convolvulus* L. (*Tiniaria convolvulus* Webb & Moq.). Black Bindweed.—A weed in gardens, other cultivated grounds and waste places. Common throughout.

*Polygonum cilinode* Michx. (*Tiniaria cilinodis* Michx., Small). Fringed Black Bindweed.—Dry sandy ground or rocky hills near Marquette. Frequent throughout.

*Fagopyrum esculentum* Moench. (*F. fagopyrum* L., Karst.). Buckwheat.—Occasional in waste places of cities and villages throughout. Perhaps not a permanent escape.

*Polygonella articulata* (L.) Meisn. Coast Jointweed.—Dry open sandy ground near Marquette. Probably frequent throughout.

#### CHENOPODIACEAE

*Cycloloma atriplicifolium* (Spreng.) Coult. Winged Pigweed.—Sandy ground in waste places about Marquette.

*Chenopodium Botrys* L. Jerusalem Oak.—In waste places as a weed about cities and villages.

*Chenopodium capitatum* (L.) Asch. (*Blitum capitatum* L.). Strawberry Blite.—Dry open ground near Marquette. Occasional throughout.



*Chenopodium glaucum* L. Oak-leaved Goosefoot.—Only as a weed in gardens, streets and waste places of cities and villages throughout.

*Chenopodium hybridum* L. Maple-leaved Goosefoot.—Margins of woods and as a weed in and about cities and villages throughout.

*Chenopodium album* L. Lamb's Quarters, Pigweed.—One of our common weeds in cultivated grounds everywhere.

*Atriplex patula hastata* (L.) Gray. Halberd-leaved Orache.—A common weed in the waste places of cities and villages throughout.

*Salsola Kali tenuifolia* G. F. W. Mey. (*S. pestifer* A. Nelson). Russian Thistle.—Noted as a weed throughout in cities and villages.

## AMARANTHACEAE

*Amaranthus retroflexus* L. Amaranth Pigweed, Green Amaranth.—A common weed of cultivated grounds and in waste places of cities and villages.

*Amaranthus graecizans* L. Tumble Weed.—Fields, gardens and waste places. Plentiful as a weed throughout.

*Amaranthus blitoides* Wats. Prostrate Amaranth.—A weed in cultivated grounds and waste places of cities and villages throughout.

## CARYOPHYLLACEAE

*Arenaria serpyllifolia* L. Thyme-leaved Sandwort.—Dry open ground as a weed in and about cities and villages throughout.

*Stellaria borealis* Bigel. (*Alsine borealis* Bigel, Britton). Northern Stitchwort.—Damp open or partially shaded places near Marquette and Negaunee. Probably frequent throughout.

*Stellaria media* (L.) Cyrill. (*Alsine media* L.) Common Chickweed.—A common weed in gardens, lawns and waste places of cities and villages throughout.

*Cerastium arvense* L. Field Chickweed, Meadow Chickweed.—Cracks and crevices of granitic rocks on rocky hills near Huron Mountain Club. Probably in similar situations throughout. Plentiful.

*Cerastium vulgatum* L. Larger Mouse-ear Chickweed.—Fields, gardens, lawns and waste places throughout as a weed. Common.

*Agrostemma Githago* L. Corn Cockle, Cockle.—Noted in this county only as an occasional weed about cities and villages. Frequent in wheat-fields of lower Michigan and known as "Cockle."

*Lychnis alba* Mill. White Campion.—Fields and waste places as a weed. Throughout, becoming common.

*Silene antirrhina* L. Sleepy Catchfly.—Dry open ground about Marquette. Probably frequent throughout.

*Silene noctiflora* L. Night-flowering Catchfly.—Fields, gardens and waste places in and about cities and villages. Frequent throughout.

*Saponaria officinalis* L. Bouncing Bet.—On dry sandy ground in and about Marquette. Probably frequent throughout.

*Saponaria Vaccaria* L. (*Vaccaria vaccaria* L., Britton). Cow-herb, Cockle.—Occasional along railroads and in depot grounds and freight yards, Marquette, Negaunee and Ishpeming.

*Dianthus barbatus* L. Sweet William.—Inclined to escape from cultivation and persist near old dwellings. Noted in particular in a small clearing near Huron Mountain Club.

## PORTULACACEAE

*Claytonia virginica* L. Spring Beauty.—Rich moist shaded grounds, usually in woods. Noted near Marquette by Miss Nellie May Fairbanks who has a specimen in her herbarium. Probably frequent throughout, but apparently less so than the following.

*Claytonia caroliniana* Michx. Carolina Spring Beauty.—Rich shaded ground near Huron Mountain Club. Apparently abundant throughout.

*Portulaca oleracea* L. Purslane, Pussley.—Gardens and waste places as a weed in and about cities and villages. Often abundant.

## NYMPHAEACEAE

*Nymphaea advena variegata* (Engelm.) Fernald. Variegated Yellow Pond Lily.—Common in still and stagnant water near Huron Mountain Club, and throughout. Included in *N. advenea* Soland in Briton & Brown's new illustrated manual.

[*Castalia odorata* (Ait.) Woodville & Wood. Sweet-scented White Water Lily.—In the opinion of the writer it is very doubtful whether this species exists in Marquette County. No very sweet-scented flowers have been noted. A careful examination of rootstocks will perhaps decide the question. For the present all white water lilies of the county so far as seen and examined are referred to the next species.]

*Castalia tuberosa* (Paine) Greene. Tuberos White Water Lily.—In small lakes and small slow streams near Huron Mountain Club. Plentiful throughout.

*Brasenia Schreberi* Gmel. Water Shield.—Noted in a pond or small lake near Negaunee. Probably frequent throughout.

## RANUNCULACEAE

*Ranunculus Flammula filiformis* (Michx.) Hook. Smaller Creeping Spearwort.—Damp sandy shores of small lakes near Huron Mountain Club. Abundant.

*Ranunculus sceleratus* L. Celery-leaved Crowfoot.—Very wet places about Marquette, Negaunee and Ishpeming. Probably frequent throughout.

*Ranunculus abortivus* L. Small-flowered Crowfoot.—Rich shaded ground near Huron Mountain Club. Probably frequent throughout.

*Ranunculus recurvatus* Poir. Hooked Crowfoot.—Dry open or shaded ground near Huron Mountain Club. Plentiful throughout.

*Ranunculus fascicularis* Muhl. Early Crowfoot.—Open rocky places on Huron Mountain near Huron Mountain Club. Not noted anywhere before in Northern Peninsula by the writer.

*Ranunculus septentrionalis* Poir. Swamp Buttercup.—Wet shaded ground at Big Bay, and near Marquette, Negaunee and Ishpeming. Frequent throughout.

*Ranunculus pennsylvanicus* L. f. Bristly Crowfoot.—Wet open or partially shaded places near Huron Mountain Club. Frequent throughout.

*Ranunculus acris* L. Tall Buttercup.—Abundant throughout the county. Noted in particular at and near Negaunee, where it covers the sides and summits of rocky hills giving them a beautiful golden color when the plant is in bloom.

*Thalictrum dasycarpum* Fisch. & Lall. Tall Meadow Rue.—In rich open or shaded ground bordering woods or along streams near Huron Mountain Club. Frequent throughout.

*Hepatica triloba* Chaix. (*H. hepatica* L., Karst.). Round-lobed Liverleaf.—Rich shaded ground near city of Marquette. Probably frequent throughout.

*Anemone canadensis* L. Canada Anemone.—Rich open or partially shaded ground near Big Bay. Probably frequent throughout.

*Anemone quinquefolia* L. Wind-flower.—Rich shaded ground along Salmon Trout River near Huron Mountain Club. Probably frequent throughout.

*Clematis virginiana* L. Virginia Virgin's Bower.—Rich shaded ground especially along stream banks near Huron Mountain Club. Plentiful throughout.

*Caltha palustris* L. Marsh Marigold.—Wet open or shaded ground. Abundant throughout.

*Coptis trifolia* (L.) Salisb. Goldthread.—Damp shaded ground near Huron Mountain Club. Common throughout.

*Aquilegia canadensis* L. Wild Columbine.—Rocky granitic hills near Huron Mountain Club. Frequent throughout.

*Actaea alba* (L.) Mill. White Baneberry.—Rich shaded ground near Huron Mountain Club. Plentiful throughout.

## BERBERIDACEAE

*Caulophyllum thalictroides* (L.) Michx. Blue Cohosh.—Rich shaded ground along Salmon Trout River near Huron Mountain Club. Perhaps frequent throughout.

## PAPAVERACEAE

*Sanguinaria canadensis* L. Bloodroot.—Rich shaded ground along Salmon Trout River near Huron Mountain Club. Probably frequent throughout.

## FUMARIACEAE

*Dicentra Cucullaria* (L.) Barnh. (*Bicuculla cucullaria* L., Millsp.). Dutchman's Breeches.—Abundant in shaded ground along Salmon Trout River near Huron Mountain Club. Common throughout.

*Corydalis sempervirens* (L.) Pers. (*Capnoides sempervirens* Borck.). Pale Corydalis.—Granitic rocky hills near Huron Mountain Club, and about Marquette. Probably common throughout.

## CRUCIFERAE

*Alyssum alyssoides* L. Yellow Alyssum.—Dry ground in and about cities and villages. Frequent throughout.

*Lepidium virginicum* L. Wild Peppergrass.—A common weed in cultivated grounds, on roadsides, and in and about cities and villages.

*Capsella Bursa-pastoris* (L.) Medic. (*Bursa bursa-pastoris* L., Britton). Shepherd's Purse.—A common weed in cultivated grounds and in and about cities and villages.

*Cakile edentula* (Bigel.) Hook. American Sea Rocket.—On and near sandy beach of Lake Superior near Huron Mountain Club. Common on the sandy beaches of the Great Lakes.

*Brassica arvensis* (L.) Ktze. (*Sinapis arvensis* L.). Wild Mustard, Common Mustard.—A bad weed in grain fields, and frequent about cities and villages.

*Sisymbrium officinale leiocarpum* DC. Smooth-podded Hedge Mustard.—A common weed on roadsides and in waste places of cities and villages throughout. Included in *Erysimum officinale* L. in Britton & Brown.

*Sisymbrium altissimum* L. (*Norta altissima* L., Britton). Tumble Mustard.—A weed about cities and villages and along railroads throughout. Plentiful.

*Erysimum cheiranthoides* L. (*Cheirinia cheiranthoides* L., Link.). Wormseed Mustard.—A weed along railroads, in fields, and waste places of cities and villages. Frequent.

*Radicula Nasturtium-aquaticum* (L.) Britton & Rendle. (*Sisymbrium nasturtium-aquaticum* L.). True Water Cress.—Creeks and ditches about Marquette and Big Bay. Plentiful.

*Radicula palustris* (L.) Moench. Marsh Water Cress.—Wet open places or in shallow water near Huron Mountain Club. Frequent throughout.

*Radicula Armoracia* (L.) Robinson. (*Aarmoracia armoracia* L., Britton). Horseradish.—Noted throughout in damp open ground about and in cities and villages.

*Dentaria diphylla* Michx. Two-leaved Toothwort, Crinkle-root.—Rich shaded ground near Big Bay. Probably frequent throughout.

*Dentario laciniata* Muhl. Cut-leaved Toothwort.—Rich shaded ground along Salmon Trout River near Huron Mountain Club. Probably frequent throughout.

*Cardamine parviflora* L. Small-flowered Bitter Cress.—Rocky summit of Huron Mountain. Probably to be found in similar situations throughout. Noted by B. Gladewitz.

*Cardamine pennsylvanica* Muhl. Pennsylvania Bitter Cress.—Along Salmon Trout River near Huron Mountain Club. Apparently infrequent.

*Arabis lyrata* L. Lyre-leaved Rock Cress.—On sandy beaches and shores, and on rocky hills about Huron Mountain Club. Probably plentiful throughout.

*Arabis brachycarpa* (T. & G.) Britton. Purple Rock Cress.—On rocky summit of Huron Mountain, and on rocks about the lighthouse in Marquette. Probably in like situations throughout.

## SARRACENIACEAE

*Sarracenia purpurea* L. Pitcher-plant.—Noted in swampy places and even on logs at Canyon Lake near Huron Mountain Club. Frequent throughout.

## DROSERACEAE

*Drosera rotundifolia* L. Round-leaved Sundew.—Boggy ground and even on old logs at Canyon Lake near Huron Mountain Club. Probably frequent throughout.

## CRASSULACEAE

*Sedum purpureum* Tausch. (*Sedum triphyllum* Haw., S. F. Gray). Liveforever.—Roadsides and waste places in cities and villages. Plentiful throughout.

## SAXIFRAGACEAE

*Saxifraga virginensis* Michx. (*Micranthes virginensis* Michx., Small). Early Saxifrage.—Cracks and crevices of rocks on Huron Mountain near Huron Mountain Club. Abundant. Probably to be found in similar situations throughout the county. First noted by Mrs. A. L. Farwell, on June 3, 1917.

*Tiarella cordifolia* L. False Mitrewort.—Rich woods at Sugar Loaf Mountain near Marquette. Apparently infrequent.

*Mitella nuda* L. Naked Mitrewort.—Rich woods near Huron Mountain Club. Common throughout.

*Chrysosplenium americanum* Schwein. Golden Saxifrage.—In shaded cool wet and springy places near Huron Mountain Club. Plentiful throughout.

*Ribes Cynosbati* L. (*Grossularia Cynosbati* L., Mill.). Prickly Gooseberry.—Open or shaded rocky ground near Sugar Loaf Mountain. Apparently infrequent.

*Ribes setosa* (Lindl.) Cav. & Britt. Bristly Gooseberry.—Rich partially shaded ground along Salmon Trout River and about Mountain Lake near Huron Mountain Club. Apparently frequent. See Britton and Brown, 2 ed., Vol. 2, 240.

*Ribes prostratum* L'Her. (*R. glandulosum* Grauer.). Fetid Currant.—Rich shaded ground near Huron Mountain Club. Frequent throughout.

*Ribes prostratum* L'Her. (*R. glandulosum* Grauer.). Fetid Currant.—Abundant along Salmon Trout River near Huron Mountain Club. Probably plentiful throughout.

*Ribes triste albinervium* (Michx.) Fernald. Smooth-leaved Swamp Red Currant.—Along Salmon Trout River near Huron Mountain Club. Plentiful.

## ROSACEAE

*Physocarpus opulifolius* (L.) Maxim. (*Opulaster opulifolius* L., Kuntze). Nine-bark.—Banks of streams and rocky hills near Huron Mountain Club. Plentiful throughout.

*Spiraea salicifolia* L. Common Meadow-sweet.—Low damp open ground near Huron Mountain Club. Frequent throughout.

*Pyrus Malus* L. (*Malus malus* L., Britton). Common Apple.—Noted throughout along roads, on margins of woods, and about cities and villages.

*Pyrus americana* (Marsh.) DC. (*Sorbus americana* Marsh.). American Mountain Ash.—Borders of hardwoods throughout. Frequent.

*Amelanchier humilis* Wieg. Small Juneberry.—Rocky summit of Huron Mountain near Huron Mountain Club. Apparently infrequent. See *Rhodora*, Vol. 14, 117, July, 1912.

*Amelanchier canadensis* (L.) Medic. Juneberry.—Dry ground bordering hardwoods near Huron Mountain Club. Frequent throughout.

*Amelanchier laevis* Wieg. Smooth-leaved Juneberry.—Dry open or partially shaded ground near Huron Mountain Club. Probably frequent throughout.

*Amelanchier bartramiana* (Tausch) Roemer. Oblong-fruited Juneberry.—Dry open ground near Lake Superior beach at Huron Mountain Club. Probably frequent throughout. See *Rhodora*, Vol. 17, 158, July, 1912.

*Crataegus Oxyacantha* L. English Hawthorn.—Cultivated in cities and villages throughout but not noted as escaping.

*Crataegus punctata* Jacq. Large-fruited Thorn.—Rich open or partially shaded ground near Marquette. Probably frequent throughout.

*Crataegus pruinosa* (Wendl.) C. Koch. Waxy-fruited Thorn.—Foot of bluffs in and about Marquette. Plentiful.

*Fragaria virginiana* Duchesne. Common Strawberry.—Common throughout in damp or dry open or partially shaded ground.

*Fragaria vesca americana* Porter. (*F. americana* Porter, Britton). American Wood Strawberry.—Usually in rich shaded ground. Frequent throughout.

*Waldsteinia fragarioides* (Michx.) Trattinick. Barren Strawberry.—Dry woods about Marquette. Specimen in herbarium of Miss Nellie M. Fairbanks, Marquette. Said to be plentiful.

*Potentilla monspeliensis* L. Rough Cinquefoil.—Dry open ground throughout mostly as a weed. Plentiful.

*Potentilla argentea* L. Silvery Cinquefoil.—Dry barren open ground near Marquette. Probably frequent throughout.

*Potentilla palustris* (L.) Scop. (*Comarum palustris* L.). Marsh Cinquefoil.—Wet marshy and boggy places near Huron Mountain Club. Plentiful throughout.

*Potentilla fruticosa* L. (*Dasiphora fruticosa* L., Rydb.). Shrubby Cinquefoil.—Wet or dry open ground often on sandy shores near Huron Mountain Club. Probably plentiful throughout.

*Potentilla tridentata* Ait. (*Sibbaldiopsis tridentata* Soland, Rydb.). Three-toothed Cinquefoil.—Dry open ground and on rocky hills near Huron Mountain Club. Plentiful throughout.

*Potentilla Anserina* L. (*Argentina Anserina* L., Rydb.). Silver-weed.—Usually in dry open ground not far from Lake Superior shore. It is a common plant in the Great Lakes region.

*Potentilla canadensis* L. Common Cinquefoil.—Dry sandy open ground near Huron Mountain Club. Frequent throughout.

*Geum canadense* Jacq. White Avens.—Woods near Marquette. Probably frequent throughout.

*Geum macrophyllum* Willd. Large-leaved Avens.—Rich shaded ground at Sugar Loaf Mountain, a large rocky hill near Marquette. Probably plentiful throughout.

*Geum strictum* Ait. Yellow Avens.—Moist open ground near Huron Mountain Club. Common throughout.

*Geum rivale* L. Purple Avens.—Wet, usually partially shaded places near Marquette. Frequent throughout.

*Rubus idaeus aculeatissimus* (C. A. Mey.). Regel & Tiling. (*R. strigosus* Michx.). Wild Red Raspberry.—Damp or dry, open or partially shaded ground. Common and often abundant throughout.

*Rubus parviflorus* Nutt. White-flowering Raspberry.—Mostly open places in woods or rocky ground near Huron Mountain Club. Common and often abundant throughout.

*Rubus triflorus* Richards. Dwarf Red Raspberry.—Wet or damp shaded places near Huron Mountain Club. Common throughout.

*Rubus allegheniensis* Porter. High-bush Blackberry.—Dry open ground or in thickets. Plentiful throughout. Scientific name taken from last edition of Gray, page 489.

*Rubus villosus* Ait. Dewberry.—Sandy open or partially shaded ground near Huron Mountain Club. Plentiful throughout. See Gray's New Manual of Botany, 7 ed., 492.

*Agrimonia striata* Michx. Britton's Agrimony.—Damp rich shaded ground along small streams near Marquette. Probably frequent throughout.

*Rosa acicularis* Lindl. Prickly Rose.—Dry partially shaded ground near Marquette. Plentiful throughout.

*Rosa blanda* Ait. Meadow Rose.—Dry open or partially shaded ground and often on and near sandy shores. Common throughout.

*Rosa carolina* L. Swamp Rose.—Borders of swamps and streams near Huron Mountain Club. Frequent throughout.

*Prunus virginiana* L. (*Padus nana* Du Roi, Roemer). Choke Cherry.—In damp or dry, open or partially shaded ground near Huron Mountain Club. Common throughout.

*Prunus pennsylvanica* L. f. Wild Red Cherry, Bird Cherry.—Rocky hills near Huron Mountain Club. Usually grows as a tree from fifteen to twenty-five feet high, but on the summit of Huron Mountain and other

rocky hills it is a mere shrub two to three feet high, although blooming and bearing fruit abundantly.

*Prunus pumila* L. Sand Cherry.—Dry open or damp ground often on shores near Huron Mountain Club. Plentiful throughout.

#### LEGUMINOSAE

*Trifolium pratense* L. Red Clover.—Roadsides, fields and in open woods. Plentiful throughout. An escape from cultivation.

*Trifolium repens* L. White Clover.—Along roads, in pastures and open woods. Abundant throughout. Individual plants large and vigorous.

*Trifolium hybridum* L. Alsike Clover.—Roadsides, and in waste places of cities and villages throughout.

*Melilotus officinalis* (L.) Lam. Yellow Sweet Clover.—Occasional in waste places of cities and villages throughout.

*Melilotus alba* Desr. White Sweet Clover.—Occasional along roads and in waste places of cities and villages throughout.

*Medicago sativa* L. Alfalfa.—Occasional in waste places about Marquette.

*Medicago lupulina* L. Black Medic, Hop Clover.—Frequent in pastures, lawns, and waste places of cities and villages.

*Vicia angustifolia* (L.) Reichard. Smaller Common Vetch.—Along railroads, in cultivated ground and especially about cities and villages. Plentiful throughout.

*Vicia angustifolia segetalis* (Thuillier) Koch. Common Field Vetch.—Noted in one place on shaded ground near Huron Mountain Club. Apparently infrequent.

*Vicia Cracca* L. Tufted Vetch.—Along railroads near Marquette. Apparently infrequent.

*Lathyrus maritimus* (L.) Bigel. Beach Pea.—Common on and near sandy beach of Lake Superior. Often plentiful near Huron Mountain Club.

*Lathyrus palustris* L. Marsh Vetchling.—Damp open places throughout.

*Lathyrus palustris linearifolius* Ser.—Margins of woods and near base of rocky hills about Marquette. Probably frequent throughout.

*Lathyrus ochroleucus* Hook. Cream-colored Vetchling.—Rocky places about the lighthouse in Marquette. Plentiful. Probably to be found throughout.

#### LINACEAE

*Linum usitatissimum* L. Common Flax.—Occasional along railroads and about freight yards and depot grounds in cities and villages throughout.

#### OXALIDACEAE

*Oxalis Acetosella* L. Common Wood Sorrel.—In hardwoods often carpeting the ground. Abundant near Huron Mountain Club.

*Oxalis corniculata* L. Lady's Sorrel.—A weed in gardens, lawns and waste places of cities and villages. Scientific name taken from Gray's New Manual of Botany, 7 ed., page 534.



## GERANIACEAE

*Geranium Bicknellii* Britton. Bicknell's Cranesbill.—Open rocky ground in and about Marquette. Probably frequent throughout.

## POLYGALACEAE

*Polygala paucifolia* Willd. Fringed Milkwort.—Dry or rocky ground near Marquette. Specimen in herbarium of Miss Nellie M. Fairbanks, Marquette. Probably frequent throughout.

## EUPHORBIACEAE

*Euphorbia maculata* L. (*Chamaesyce maculata* L., Small). Milk Purslane.—Waste places in Marquette. Probably frequent throughout.

*Euphorbia Cyparissias* L. (*Tithymalus cyparissias* L., Hill). Cypress Spurge.—More or less in and about cities and villages throughout. Usually abundant in cemeteries.

## CALLITRICHACEAE

*Callitriche palustris* L. Vernal Water Starwort.—In shallow still water on margin of Independence Lake at Big Bay. Probably frequent throughout.

## ANACARDIACEAE

*Rhus glabra* L. Smooth Sumach.—Rocky hills near Huron Mountain Club. Plentiful throughout.

*Rhus Toxicodendron* L. (*Toxicodendron radicans* L., Kuntze). Poison Ivy.—Noted more or less throughout in sandy open ground, on or near lake shores, and rocky hills.

## AQUIFOLIACEAE

*Ilex verticillata* (L.) Gray. Winterberry, Black Alder.—In low ground throughout. Frequent.

*Ilex verticillata tenuifolia* (Torr.) Wats. (*I. bronxensis* Britton). Northern Winterberry.—On border of Rush Lake and rocky sides of Canyon Lake near Huron Mountain Club. Probably frequent throughout. Similar to the preceding but usually the berries are larger, not so numerous and an orange red.

*Nemopanthus mucronata* (L.) Trel. Mountain Holly.—Damp open or partially shaded ground near Huron Mountain Club. Probably frequent throughout.

## ACERACEAE

*Acer pennsylvanicum* L. Striped Maple.—In hardwoods near Huron Mountain Club. Probably frequent throughout. Often called snakewood.

*Acer spicatum* Lam. Mountain Maple.—Moist woods and places near Huron Mountain Club. Common throughout.

*Acer saccharum* Marsh. Sugar Maple.—One of the important trees making up the hardwood forests in Marquette County. Often the dominant tree and usually mixed with yellow birch and others.

*Acer saccharinum* L. Silver Maple.—Not native in Marquette County, but apparently often planted in cities and villages as an ornamental tree.

*Acer rubrum* L. Red Maple.—Rich woods with other trees, and sometimes in dry sandy ground. In the latter habitat it is a shrub or small scraggy tree. Common throughout.

*Acer Negundo* L. Box Elder.—Not native but occasionally set out as an ornamental tree in cities and villages. Not noted as escaping.

## SAPINDACEAE

*Aesculus Hippocastanum* L. Horse-chestnut.—Occasionally set out as an ornamental tree in cities and villages. Not escaping.

## BALSAMINACEAE

*Impatiens biflora* Walt. Spotted Touch-me-not.—Damp rich open or shaded ground near Huron Mountain Club. Abundant throughout.

## RHAMNACEAE

*Rhamnus alnifolia* L'Hér. Alder-leaved Buckthorn.—Damp open or partially shaded places near Marquette. Probably frequent throughout.

*Ceanothus americanus* L. New Jersey Tea.—Gravelly open ground near Marquette. Apparently infrequent.

## VITACEAE

*Psedera vitacea* (Knerr) Greene. (*Parthenocissus quinquefolia* L., Planch.). Virginia Creeper, American Ivy.—Borders of hardwoods near Huron Mountain Club. Frequent throughout.

*Vitis vulpina* L. Riverside Grape.—Bank of Pine River at bridge near Huron Mountain Club. Not noted elsewhere. Apparently infrequent.

## TILIACEAE

*Tilia americana* L. Basswood.—Frequent in hardwoods throughout. Trees often very large.

## MALVACEAE

*Malva rotundifolia* L. Low Mallow.—Common as a weed in gardens and waste places of cities and villages throughout.

## HYPERICACEAE

*Hypericum perforatum* L. Common St. John's-wort.—Dry open ground in and about Marquette. Frequent throughout.

*Hypericum virginicum* L. (*Triadenum virginicum* L., Raf.). Marsh St. John's-wort.—Marshy or swampy ground and often in water and on lake shores near Huron Mountain Club. Frequent throughout.

## CISTACEAE

*Helianthemum canadense* (L.?) Michx. (*Crocianthemum canadense* L., Britton). Rockrose, Long-branched Frostweed.—Sandy usually open ground near Huron Mountain Club. Probably frequent throughout.

*Hudsonia tomentosa* Nutt. False Heather, Woolly Hudsonia.—On and near sandy beach of Lake Superior near Huron Mountain Club. Probably frequent throughout.

*Lechea stricta* Légggett. Bushy Pinweed.—Rocky ground on summit of Huron Mountain near Huron Mountain Club. Plentiful. Probably to be found throughout.

## VIOLACEAE

*Viola cucullata* Ait. Marsh Blue Violet.—Wet open or partially shaded places near Huron Mountain Club. Common throughout.

*Viola nephrophylla* Greene. Northern Bog Violet.—Wet open or partially shaded places and along streams near Huron Mountain Club. Probably frequent throughout.

*Viola papilionacea* Pursh. Meadow Violet.—Moist open or partially shaded ground near Huron Mountain Club. Probably frequent throughout.

*Viola septentrionalis* Greene. Northern Blue Violet.—Partially shaded alluvial ground along Salmon Trout River near Huron Mountain Club. Abundant. Probably to be found throughout.

*Viola Selkirkii* Pursh. Selkirk's Violet, Great-Spurred Violet.—Damp shaded ground near Huron Mountain Club. No doubt frequent throughout.

*Viola lanceolata* L. Lance-leaved Violet.—Open wet boggy places, moist meadow-like ground and often in wet sand on shores near Huron Mountain Club. Frequent throughout.

*Viola pallens* (Banks) Brainerd. Northern White Violet.—In open or partially shaded wet, springy ground near Huron Mountain Club. Common throughout.

*Viola renifolia* Gray. Kidney-leaved Violet.—Rich shaded ground especially in hardwoods, near Huron Mountain Club. Common throughout.

*Viola scabriuscula* Schwein. (*V. eriocarpa* Schwein.) Smooth Yellow Violet.—Rich damp shaded ground especially in hardwoods near Huron Mountain Club. Frequent throughout.

*Viola canadensis* L. Canada Violet.—Shaded ground at Big Bay. Abundant. Probably to be found throughout.

*Viola conspersa* Reichenb. American Dog Violet.—Common in low shaded ground near Huron Mountain Club. Noted in particular on rocky ground about the lighthouse, Marquette. Frequent throughout.

*Viola arvensis* Murr. European Field Pansy, Wild Pansy.—Sandy open ground in and about city of Marquette. Plentiful. Miss Nellie M. Fairbanks.

## CACTACEAE

*Opuntia Rafinesquii* Engelm. (*O. humifusa* Raf.). Western Prickly Pear.—On rocks at or near summit of Huron Mountain near Huron Mountain Club. Plentiful. Miss Anne Russell, Detroit, Michigan. Reported on rocky hills about city of Marquette.

## THYMELAEACEAE

*Dirca palustris* L. Leatherwood.—Rich woods at Canyon Lake near Huron Mountain Club. Probably frequent throughout.

## ELAEAGNACEAE

*Shepherdia canadensis* (L.) Nutt. (*Lepargyrea canadensis* L., Greene). Canadian Buffalo Berry.—Dry or rocky open ground near Huron Mountain Club. Frequent throughout.

## ONAGRACEAE

*Ludvigia palustris* (L.) Ell. (*Isnardia palustris* L.). Marsh Purslane.—Wet places and in shallow water near Marquette and Big Bay. Plentiful.

*Epilobium angustifolium* L. (*Chamaenerion angustifolium* L., Scop.). Great Willow-herb, Fireweed.—In low open or partially shaded ground and often in clearings. Plentiful throughout.

*Epilobium densum* Raf. (*E. lineare* Muhl.). Linear-leaved Willow-herb.—Open low marshy ground near Marquette and Negaunee. Frequent.

*Epilobium adenocaulon* Haussk. Northern Willow-herb.—Rich damp and usually open ground near Big Bay. Probably common throughout.

*Oenothera biennis* L. Common Evening Primrose.—Usually in open dry and even in sandy places, especially on and near sandy beaches of Lake Superior. Frequent throughout.

*Circaea alpina* L. Smaller Enchanter's Night Shade.—Damp woods near Huron Mountain Club. Probably plentiful throughout.

## HALORAGIDACEAE

*Myriophyllum heterophyllum* Michx. Various-leaved Water Milfoil.—In shallow water of Third Pine Lake, by the "Styx" near Huron Mountain Club. Probably frequent throughout.

## ARALIACEAE

*Aralia racemosa* L. American Spikenard.—Rich shaded ground near Huron Mountain Club. Frequent throughout.

*Aralia hispida* Vent. Bristly Sarsaparilla.—Dry or sandy open or partially shaded ground near Marquette and Big Bay. Probably frequent throughout.

*Aralia nudicaulis* L. Wild Sarsaparilla.—Rich shaded ground near Huron Mountain Club. Common throughout.

*Panax quinquefolium* L. Ginseng.—Probably not growing wild at present in Marquette County. Should be looked for in rich woods. Cultivated at Big Bay by T. H. Carlson who is also attempting to plant it in nearby woods.

*Panax trifolium* L. Dwarf Ginseng, Ground-nut.—Rich woods especially rich alluvial ground along Salmon Trout River near Huron Mountain Club. Probably plentiful throughout.

## UMBELLIFERAE

*Sanicula marilandica* L. Black Snake-root.—Rich shaded ground near Huron Mountain Club and at Big Bay. Common throughout.

*Osmorhiza Claytoni* (Michx.) Clarke, Britton. (*Washingtonia Claytoni* Michx.). Woolly Sweet Cicely.—Rich shaded ground near Huron Mountain Club. Probably frequent throughout.

*Cicuta bulbifera* L. Bulb-bearing Water Hemlock.—Wet swampy open places near Huron Mountain Club.

*Carum Carvi* L. Caraway.—About dwellings, on roadsides and in waste places of cities and villages throughout. Frequent.

*Sium cicutaefolium* Schrank. Hemlock Water Parsnip.—Wet muddy places near Big Bay. Plentiful throughout.

*Heracleum lanatum* Michx. Cow Parsnip.—Damp open or shaded ground at Big Bay. Frequent throughout.

## CORNACEAE

*Cornus canadensis* L. (*Chamaepericlymenum canadense* L., Asch. & Graebn.). Dwarf Cornel, Dwarf Dogwood.—Damp shaded ground near Huron Mountain Club. Common throughout.

*Cornus circinata* L'Her (*C. rugosa* Lam.). Round-leaved Dogwood.—Shaded rocky ground about Sugar Loaf Mountain near Marquette. Plentiful throughout.

*Cornus Amomum* Mill. Silky Cornel.—Damp ground on margin of woods near Big Bay. Probably plentiful throughout.

*Cornus Baileyi* Coult. & Evans. Bailey's Dogwood.—Open dry ground about Sugar Loaf Mountain near Marquette. Probably frequent throughout.

*Cornus stolonifera* Michx. Red-osier Dogwood.—In wet places, often in damp sand near shores. Common throughout.

*Cornus paniculata* L'Her. (*C. femina* Mill.). Panicked Dogwood.—Thickets, stream banks and borders of woods near Marquette. Common throughout.

*Cornus alternifolia* L. f. Alternate-leaved Dogwood.—Borders of woods and banks of small streams near Huron Mountain Club. Frequent throughout.

## ERICACEAE

*Chimaphila umbellata* (L.) Nutt. Pipsissewa, Prince's Pine.—Dry woods near Huron Mountain Club. Frequent throughout.

*Pyrola secunda* L. One-sided Wintergreen.—Rich woods near Huron Mountain Club. Plentiful throughout.

*Pyrola elliptica* Nutt. Shin Leaf.—Dry shaded ground especially in dry woods near Huron Mountain Club. Probably frequent throughout.

*Pyrola asarifolia* Michx. Liver-leaf Wintergreen.—Damp shaded ground about Sugar Loaf Mountain near Marquette. Probably frequent throughout.

*Pyrola asarifolia incarnata* (Fisch.) Fernald. (*P. uliginosa* Torr.). Bog Wintergreen.—Damp or boggy ground about Sugar Loaf Mountain near Marquette. Probably frequent throughout.

*Monotropa uniflora* L. Indian Pipe.—Rich usually shaded ground near Huron Mountain Club. No doubt common throughout.

*Ledum groenlandicum* Oeder. Labrador Tea.—In boggy places and damp thickets near Huron Mountain Club. Common throughout.

*Kalmia polifolia* Wang. Pale Laurel.—Boggy open ground near Huron Mountain Club. Frequent throughout.

*Andromeda glaucophylla* Link. Bog Rosemary.—Boggy places and wet shores near Huron Mountain Club. Common throughout.

*Chamaedaphne calyculata* (L.) Moench. Leather-leaf.—Open boggy ground near Huron Mountain Club. Common throughout.

*Epigaea repens* L. Trailing Arbutus, May Flower.—Sandy ground, mostly under pines in the vicinity of the Huron Mountain Club, where it is abundant. Common throughout.

*Gaultheria procumbens* L. Wintergreen, Checkerberry.—Usually in dry sandy shaded ground, sometimes in sphagnum swamps. Abundant near Huron Mountain Club and common throughout.

*Arctostaphylos Uva-ursi* (L.) Spreng. (*Uva-ursi Uva-ursi* L., Britton). Red Bearberry, Bearberry.—Sandy shores and rocky hills near Huron Mountain Club. Plentiful throughout.

*Chiogenes hispidula* (L.) T. & G. Creeping Snowberry.—Damp woods and boggy ground near Huron Mountain Club. Frequent throughout.

*Gaylussacia baccata* (Wang.) C. Koch. Black Huckleberry.—Usually in shaded sandy ground near Huron Mountain Club. Plentiful throughout.

*Vaccinium pennsylvanicum* Lam. (*V. angustifolium* Ait.). Low Sweet Blueberry, Blueberry.—Dry sandy open or partially shaded ground near Huron Mountain Club. Common throughout.

*Vaccinium pennsylvanicum nigrum* Wood. (*V. nigrum* Wood, Britton). Low Black Blueberry.—Usually associated with the above species in small or large patches. Frequent throughout.

*Vaccinium canadense* Kalm. Canada Blueberry.—Dry, swampy, open or partially shaded ground near Huron Mountain Club. Common throughout. Often growing with and near the preceding.

*Vaccinium membranaceum* Dougl. Thin-leaved Bilberry.—Damp shaded ground near Huron Mountain Club. Apparently infrequent. In Chippewa County known as rabbit berry. Berries large black slightly acid but very palatable.

*Vaccinium ovalifolium* Sm. Oval-leaved Bilberry.—Rich woods near Huron Mountain Club. Apparently infrequent. Known in Chippewa County near Whitefish Point, as myrtilloid berry. Berry medium sized blue, slightly acid, but very palatable.

*Vaccinium Oxycoccos* L. (*Oxycoccos oxycoccos* L., MacM.). Small Cranberry.—Borders of and open places in tamarack-black spruce swamps. Probably frequent throughout.

*Vaccinium macrocarpon* Ait. (*Oxycoccus macrocarpus* Ait., Pursh). American Cranberry.—In boggy and swampy places throughout. Plentiful. Often cultivated.

## PRIMULACEAE

*Lysimachia terrestris* (L.) BSP. Bulb-bearing Loosestrife.—Low marshy open ground near Huron Mountain Club. Frequent throughout.

*Lysimachia Nummularia* L. Moneywort.—A weed in lawns and waste places, Marquette. Probably to be found throughout. An escape from cultivation.

*Lysimachia thyrsoflora* L. (*Naumburgia thyrsoflora* L., Duby.). Tufted Loosestrife.—Wet swampy places, often in shallow water near Huron Mountain Club. Common throughout.

*Trientalis americana* (Pers.) Pursh. Star Flower.—Rich shaded ground near Huron Mountain Club. Common throughout.

## OLEACEAE

*Fraxinus americana* L. White Ash.—Large trees along the Salmon Trout River near Huron Mountain Club, which are at present believed to be this species. No mature fruit or leaf specimens were secured. Noted June 2 and 7, 1917.

*Fraxinus pennsylvanica* Marsh. Red Ash.—About Rush Lake near Huron Mountain Club. Apparently infrequent.

*Fraxinus pennsylvanica lanceolata* (Borkh.) Sarg. Green Ash.—In damp ground or border of hardwoods and along streams near Huron Mountain Club. Frequent throughout.

*Fraxinus nigra* Marsh. Black Ash.—Swampy places and wet low banks of streams near Huron Mountain Club. Common throughout.

*Syringa vulgaris* L. Common Lilac.—Noted as escaping from cultivation and persisting in dry sandy ground in Marquette.

## GENTIANACEAE

*Menyanthes trifoliata* L. Buckbean.—In bogs and shallow water near Huron Mountain Club. Common throughout.

## APOCYNACEAE

*Apocynum androsacmifolium* L. Spreading Dogbane.—Dry open or partially shaded ground near Marquette. Frequent throughout.

## CONVOLVULACEAE

*Convolvulus sepium* L. Hedge Bindweed.—Moist open places near Marquette. Apparently infrequent.

*Convolvulus arvensis* L. Field Bindweed.—In waste places in and about cities and villages throughout. Noted in particular at Big Bay and in Marquette.

## BORAGINACEAE

*Cynoglossum officinale* L. Hound's Tongue.—Roadsides near Big Bay. Probably occasional throughout.

*Lappula echinata* Gilibert. (*L. lappula* L., Karst.). European Stickseed.—Roadsides and waste places about cities and villages as a weed throughout.

## LABIATAE

*Scutellaria lateriflora* L. Mad-dog Skullcap.—Damp shaded ground near Marquette. Frequent throughout.

*Scutellaria galericulata* L. Marsh Skullcap.—Wet marshy places near Huron Mountain Club. Common throughout.

*Nepeta Cataria* L. Catnip.—As an occasional weed in waste places of cities and villages throughout.

*Nepeta hederacea* (L.) Trevisan. (*Glechoma hederacea* L.). Ground Ivy.—A weed in lawns and waste places of cities and villages. Frequent throughout.

*Prunella vulgaris* L. Self-heal.—Roadsides and margins of woods near Marquette. Frequent throughout.

*Galeopsis Tetrahit* L. Hemp Nettle.—Roadsides, borders of woods and in waste places in and near Marquette. Probably frequent throughout.

*Leonurus Cardiaca* L. Motherwort.—A weed in gardens and waste places in and about cities and villages throughout.

*Monarda mollis* L. Pale Wild Bergamot.—Dry open ground about Sugar Loaf Mountain near Marquette. Apparently infrequent.

*Hedeoma hispida* Pursh. Rough Pennyroyal.—Dry open ground near Marquette. Apparently infrequent.

*Lycopus uniflorus* Michx. Northern Bugle Weed.—Low damp open or partially shaded ground near Marquette. Probably frequent throughout.

*Lycopus americanus* Muhl. Cut-leaved Water Hoarhound.—Damp open or shaded ground near Huron Mountain Club. Common throughout.

*Mentha arvensis* L. Corn Mint.—As a weed in waste places of cities and villages. Frequent throughout.

*Mentha arvensis canadensis* (L.) Briquet. (*M. canadensis* L.). American Wild Mint.—Damp open or shaded ground near Huron Mountain Club. Common throughout.

*Mentha arvensis lanata* Piper. Woolly Wild Mint.—Damp sandy ground at Big Bay. Plentiful. Large and vigorous. Probably frequent throughout.

## SOLANACEAE

*Solanum Dulcamara* L. Climbing Nightshade.—Occasional in and about cities and villages throughout. Known in Europe as bitter-sweet.

*Solanum nigrum* L. Garden Nightshade, Deadly Nightshade.—Noted as a weed in gardens in cities and villages throughout.



## SCROPHULARIACEAE

*Verbascum Thapsus* L. Common Mullein.—A weed along railroads, in pastures, fields, and about cities and villages. Common throughout.

*Linaria vulgaris* Hill. (*Llinaria* L., Karst.). Butter and Eggs.—A weed in gardens and waste places of cities and villages. Plentiful throughout.

*Collinsia parviflora* L. (*C. tenella* Pursh, Piper). Small-flowered Collinsia.—Summit of Huron Mountain in cracks and crevices of rocks. Plentiful. B. Gladewitz. A small plant and easily overlooked. Probably frequent in similar situations.

*Scrophularia leporella* Bicknell. Hare Figwort.—Rich open or partially shaded ground near Marquette. Probably frequent throughout.

*Chelone glabra* L. Snake-head, Turtle-head.—Damp usually partially shaded ground near Huron Mountain Club.

*Mimulus ringens* L. Square-stemmed Monkey Flower.—Wet open ground near Huron Mountain Club. Common throughout.

*Veronica americana* Schwein. American Brooklime.—Along brooks, in ditches and other wet places near Huron Mountain Club. Common throughout.

*Veronica serpyllifolia* L. Thyme-leaved Speedwell.—Damp or dry grassy open ground. Plentiful throughout.

*Veronica peregrina* L. Purslane Speedwell.—Noted only as a garden or street weed in Marquette and Negaunee. Plentiful.

*Melampyrum lineare* Lam. Narrow-leaved Cow Wheat.—Dry shaded ground near Huron Mountain Club. Frequent throughout.

## LENTIBULARIACEAE

*Utricularia vulgaris americana* Gray. (*U. macrorhiza* Le Conte). Greater Bladderwort.—Ponds and slow streams near Huron Mountain Club. Probably frequent throughout.

*Utricularia intermedia* Hayne. Flat-leaved Bladderwort.—Usually in shallow water of marshy and swampy places near Huron Mountain Club. Frequent throughout.

*Utricularia cornuta* Michx. (*Stomoisia cornuta* Michx., Raf.). Horned Bladderwort.—Sandy shores of small lakes near Huron Mountain Club. Probably frequent throughout.

## PHRYMACEAE

*Phryma Leptostachya* L. Lopseed.—Moist shaded ground near Turin. Apparently infrequent. Reported in the Michigan Flora.

## PLANTAGINACEAE

*Plantago major* L. Common Plantain.—Lawns and waste places in cities and villages throughout.

*Plantago Rugelii* Dcne. Rugel's Plantain.—Along railroads, on roadsides, in fields and waste places of cities and villages. Plentiful throughout.

*Plantago lanceolata* L. English Plantain.—Occasional as a weed in fields and waste places of cities and villages throughout. Often a vicious field weed.

## RUBIACEAE

*Galium trifidum* L. Small Bedstraw.—Wet marshy places near Huron Mountain Club. Frequent throughout.

*Galium Claytoni* Michx. Clayton's Bedstraw.—Damp and swampy places near Marquette. Probably frequent throughout.

*Galium tinctorium* L. Stiff Marsh Bedstraw.—Damp shaded ground near Huron Mountain Club. Frequent throughout.

*Galium asprellum* Michx. Rough Bedstraw.—Damp shaded ground mostly along streams near Huron Mountain Club. Common throughout.

*Galium triflorum* Michx. Sweet-scented Bedstraw.—Rich shaded ground especially in woods near Huron Mountain Club. Common throughout.

*Mitchella repens* L. Partridge Berry.—Dry woods near Huron Mountain Club. Common throughout.

## CAPRIFOLIACEAE

*Diervilla Lonicera* Mill. (*D. diervilla* L., MacM.). Bush Honeysuckle.—Dry sandy open or partially shaded ground about Marquette. Common throughout.

*Lonicera tatarica* L. Tartarian Honeysuckle.—Rocky ground about the lighthouse at Marquette. Apparently infrequent. An escape from cultivation.

*Lonicera canadensis* Marsh. American Fly Honeysuckle.—In woods throughout the county. Common.

*Lonicera oblongifolia* (Goldie) Hook. Swamp Fly Honeysuckle.—Wet swampy ground near Huron Mountain Club. Probably frequent throughout.

*Lonicera Caprifolium* L. Perfoliate Honeysuckle.—Sandy or rocky ground in and about Marquette. An escape from cultivation. Miss Nellie M. Fairbanks.

*Lonicera hirsuta* Eat. Hairy Honeysuckle.—Damp mostly shaded ground and in rocky places near Marquette. Frequent throughout.

*Lonicera dioica* L. Smooth-leaved Honeysuckle.—Dry open or partially shaded ground and in rocky places near Marquette. Probably frequent throughout.

*Symphoricarpos racemosus* Michx. Snowberry.—Dry rocky places in and about Marquette. Probably frequent throughout.

*Symphoricarpos racemosus laevigatus* Fernald. Garden Snowberry.—Sandy open ground in Marquette. An escape from cultivation.

*Linnaea borealis americana* (Forbes) Rehder. Twin Flower.—Borders of damp woods or in rocky places near Huron Mountain Club. Common throughout.

*Viburnum Opulus americanum* Ait. (*V. opulus* L.). High Bush Cranberry, Cranberry Tree.—Borders of damp woods and along streams near Marquette and Big Bay. Frequent throughout.

*Viburnum acerifolium* L. Maple-leaved Arrow-wood.—Rocky woods about Marquette. Frequent throughout.

*Viburnum Lentago* L. Nannyberry.—Rich woods and banks of streams near Huron Mountain Club. Frequent throughout.

*Sambucus canadensis* L. Sweet Elder, Black-berried Elder.—Noted near railroad at Birch in rich open ground. Probably frequent throughout but not so plentiful as the following.

*Sambucus racemosa* L. Red-berried Elder.—Rich open or shaded ground near Huron Mountain Club. Common throughout.

## CUCURBITACEAE

*Echinocystis lobata* (Michx.) T. & G. (*Micrampelis lobata* Michx., Greene). Wild Balsam-apple.—Rocky bluffs along Lake Superior in Marquette. Apparently an escape from cultivation.

## CAMPANULACEAE

*Campanula rotundifolia* L. Harebell, Bluebell.—Sandy shores and open rocky places near Huron Mountain Club. Frequent throughout.

*Campanula aparinoides* Pursh. Marsh Bellflower.—Wet, grassy, open ground near Huron Mountain Club. Frequent throughout.

## LOBELIACEAE

*Lobelia Dortmanna* L. Water Lobelia.—Shallow water of Rush Lake near Huron Mountain Club. Abundant. Perhaps to be found in other lakes of the county.

## COMPOSITAE

*Eupatorium purpureum* L. Joe Pye Weed.—Low ground mostly on borders of woods and thickets near Marquette and Big Bay. Frequent throughout.

*Eupatorium purpureum maculatum* (L.) Darl. (*E. maculatum* L.). Spotted Joe Pye Weed.—Wet marshy places near Marquette and Negaunee. Frequent throughout.

*Eupatorium perfoliatum* L. Common Thoroughwort, Boneset.—Low usually open ground near Huron Mountain Club. Plentiful throughout.

*Solidago hispida* Muhl. Hairy Goldenrod.—Dry sandy open or partially shaded ground near Marquette. Common throughout.

*Solidago Randii* (Porter) Britton. Rand's Goldenrod.—On and near sandy beach of Lake Superior and rocky summit of Huron Mountain near Huron Mountain Club. Probably frequent throughout.

*Solidago uliginosa* Nutt. Bog Goldenrod.—Wet, open ground near Huron Mountain Club. Probably plentiful throughout.

*Solidago canadensis* L. Canada Goldenrod.—Rich open ground and in thickets near Marquette. Frequent throughout.

*Solidago altissima* L. Tall Goldenrod.—Rich open ground near Big Bay. Probably frequent throughout.

*Solidago serotina* Ait. Late Goldenrod.—Rich open ground or in thickets along Salmon Trout River near Huron Mountain Club. Frequent throughout.

*Solidago graminifolia* (L.) Salisb. (*Euthamia graminifolia* L., Nutt.). Flat-topped Goldenrod.—Moist open ground near Huron Mountain Club. Common throughout.

*Aster macrophyllus* L. Large-leaved Aster.—Rich shaded ground near Huron Mountain Club. Frequent, often abundant, throughout.

*Aster laevis* L. Smooth Aster.—Dry open or partially shaded ground near Marquette. Probably plentiful throughout.

*Aster lateriflorus* (L.) Britton. Calico Aster.—Border of woods and in thickets near Marquette. Common throughout.

*Aster Tradescanti* L. Tradescant's Aster.—Low open or partially shaded ground near Marquette. Common throughout.

*Aster puniceus* L. Red-stalk Aster.—Damp open or partially shaded ground near Marquette. Frequent throughout.

*Erigeron philadelphicus* L. Philadelphia Fleabane, Field Daisy.—Occasional in and about cities and villages as a weed. Often a field weed.

*Erigeron annuus* (L.) Pers. Sweet Scabious.—As an occasional weed only in and about cities and villages throughout.

*Erigeron ramosus* (Walt.) BSP. Daisy Fleabane.—Roadsides, fields, pastures and waste places throughout. Frequent.

*Erigeron canadensis* L. (*Leptilon canadense* L., Britton). Horseweed.—A weed throughout in fields, gardens, pastures and waste places. Often abundant.

*Antennaria canadensis* Greene. Canadian Cat's Foot.—Dry mostly open ground near Marquette. Probably frequent throughout.

*Antennaria fallax* Greene. Large-leaved Cat's Foot.—Summit of Huron Mountain, on rocky ground, near Huron Mountain Club. Frequent throughout.

*Antennaria neodioica* Greene. Smaller Cat's Foot.—Rich open or partially shaded ground near Huron Mountain Club. Frequent throughout.

*Anaphalis margaritacea* (L.) B. & H. Pearly Everlasting.—Dry open or partially shaded ground near Huron Mountain Club. Abundant throughout.

*Gnaphalium decurrens* Ives. Clammy Everlasting.—Fields, pastures, roadsides, usually in dry open ground throughout the county.

*Gnaphalium uliginosum* L. Low Cudweed.—Damp or dry open ground in fields and roadsides about Marquette and Big Bay. Frequent throughout.

*Adenocaulon bicolor* Hook. Adenocaulon.—Rich open woods at or near foot of Huron Mountain near Huron Mountain Club. Apparently infrequent.

*Ambrosia trifida* L. Great Ragweed.—Noted as a weed in Marquette and at Big Bay. Probably frequent throughout in cities and villages.

*Ambrosia artemisiifolia* L. (*A. elatior* L.). Common Ragweed.—A common weed of cultivated grounds, and in and about cities and villages throughout.

*Ambrosia psilostachya* DC. Western Ragweed.—A weed noted in waste places of Marquette, Negaunee and Ishpeming. Becoming frequent.

*Rudbeckia hirta* L. Yellow Daisy, Black-eyed Susan.—Dry open ground near Marquette. Probably frequent throughout.

*Helianthus annuus* L. Common Sunflower.—Rubbish heaps in Marquette. Perhaps not a permanent escape.

*Helianthus tuberosus* L. Jerusalem Artichoke.—Occasional in waste places about Marquette, Negaunee, and Ishpeming. An escape from cultivation.

*Bidens frondosa* L. Beggar-ticks.—Damp open ground about Marquette. Probably common throughout.

*Bidens cernua* L. Nodding Bur-marigold.—Wet open ground near Marquette. Probably frequent throughout.

*Achillea Millefolium* L. Common Yarrow.—Common as a weed in fields, pastures, on roadsides and in waste places, throughout the county.

*Anthemis Cotula* L. May Weed.—About farm dwellings, on roadsides, and in waste places of cities and villages throughout.

*Chrysanthemum Leucanthemum pinnatifidum* Lecoq & Lamotte. Ox-eye Daisy.—As a weed in fields, meadows, along railroads and on roadsides throughout. As a field weed becoming too frequent.

*Tanacetum vulgare* L. Common Tansy.—On roadsides and in waste places near cities and villages throughout.

*Tanacetum huronense* Nutt. Lake Huron Tansy.—Sandy beach of Lake Superior above Marquette. Apparently infrequent in this county.

*Artemisia caudata* Michx. Tall Wormwood.—Sandy beach of Lake Superior throughout. Often plentiful.

*Artemisia biennis* Willd. Biennial Wormwood.—Waste places in Marquette. Apparently infrequent. Introduced from the west.

*Petasites palmatus* (Ait.) Gray. Palmate-leaf Sweet Coltsfoot.—Damp shaded ground near Marquette. Probably frequent throughout.

*Erechtites hieracifolia* (L.) Raf. Fireweed.—Moist open or shaded ground near Big Bay. Probably frequent throughout.

*Senecio aureus* L. Golden Ragwort.—Wet open or partially shaded ground near Marquette. Probably frequent throughout.

*Arctium minus* Bernh. Common Burdock.—A weed well distributed and in various situations throughout the county.

*Cirsium lanceolatum* (L.) Hill. Common Bull Thistle.—In pastures, waste places and on roadsides. Frequent throughout.

*Cirsium Pitcheri* (Torr.) T. & G. Pitcher's Thistle.—Sandy beach of Lake Superior. Apparently infrequent in this county.

*Cirsium discolor* (Muhl.) Spreng. Field Thistle.—Rich open or partially shaded ground near Marquette. Probably frequent throughout.

*Cirsium muticum* Michx. Swamp Thistle.—Wet open or partially shaded ground near Marquette. Frequent throughout.

*Cirsium arvense* (L.) Scop. Canada Thistle.—Cultivated grounds roadsides, waste places, and along railroads. Becoming too common throughout.

*Tragopogon porrifolius* L. Oyster Plant.—Along railroads and in waste places of cities and villages. An escape from cultivation.

*Tragopogon pratensis* L. Yellow Goat's-beard.—In and about depot grounds and freight yards of cities and villages and along railroads. Apparently frequent throughout.

*Taraxacum officinale* Weber. (*Leontodon taraxacum* L.). Common Dandelion.—Very common in pastures and fields throughout.

*Sonchus arvensis* L. Field Sow Thistle.—About depot grounds and freight yards in cities and villages and along railroads. Frequent throughout.

*Sonchus oleraceus* L. Common Sow Thistle.—In gardens, fields and waste places as a weed. Plentiful throughout.

*Sonchus asper* (L.) Hill. Spiny-leaved Sow Thistle.—A weed in cultivated grounds and waste places of cities and villages. Plentiful throughout.

*Lactuca scariola integrata* Gren. & Godr. Entire-leaved Prickly Lettuce.—Becoming frequent in cultivated grounds and waste places of cities and villages throughout.

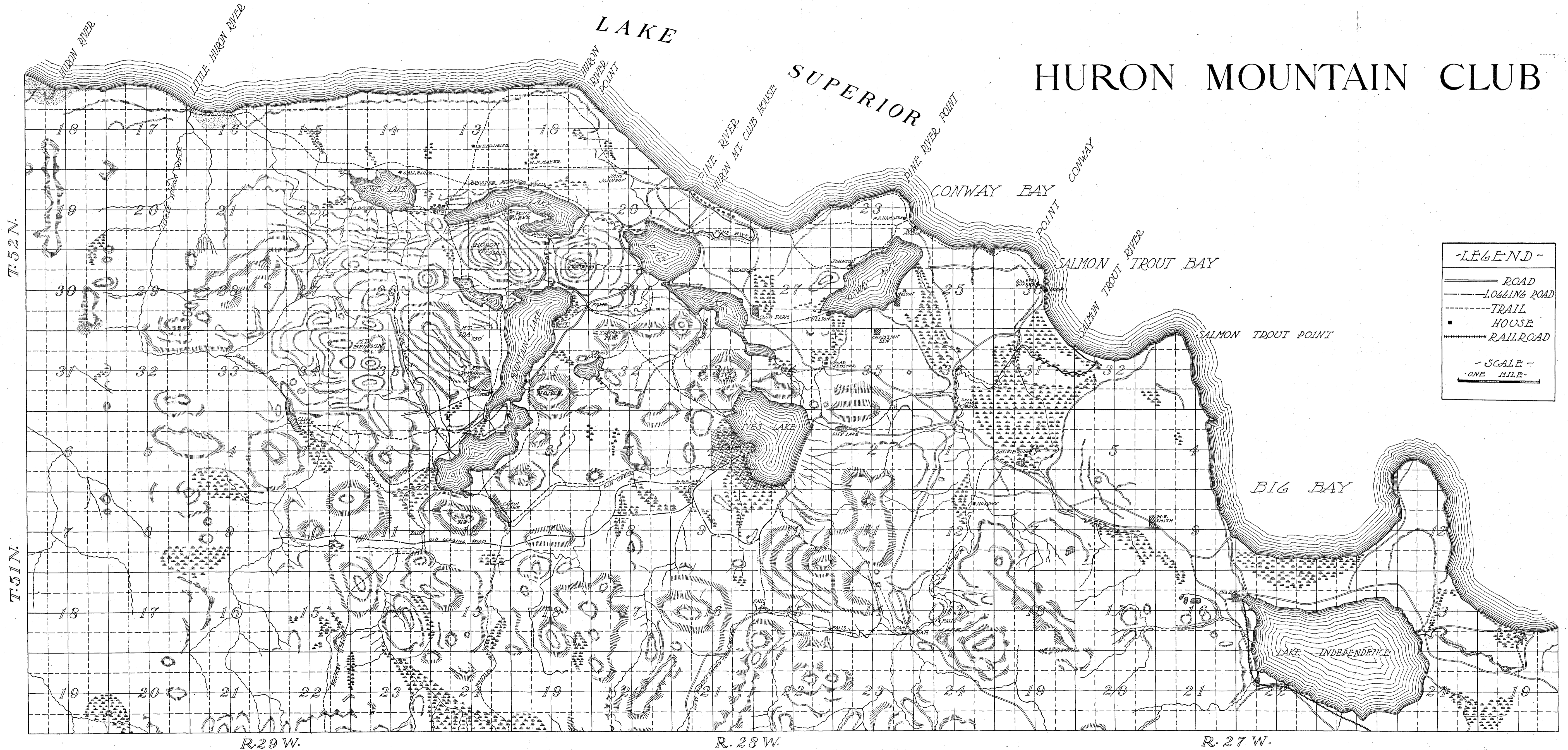
*Lactuca canadensis* L. Wild Lettuce.—Damp rich open or partially shaded ground near Huron Mountain Club. Plentiful throughout.

*Lactuca spicata* (Lam.) Hitchc. Tall Blue Lettuce.—Rich open or partially shaded ground near Huron Mountain Club. Common throughout.

*Hieracium canadense* Michx. Canada Hawkweed.—Dry open or partially shaded ground near Marquette. Probably frequent throughout.

*Hieracium umbellatum* L. (*H. scabriusculum* Schwein). Narrow-leaved Hawkweed.—Dry open or partially shaded ground near Marquette. Noted by the late Prof. C. F. Wheeler and reported in the Michigan Flora.

# HURON MOUNTAIN CLUB



-LEGEND-

- ROAD
- LOGGING ROAD
- TRAIL
- HOUSE
- RAILROAD

-SCALE-  
ONE MILE

R.29 W.

R. 28 W.

R. 27 W.





