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Site 6103 (Boreal Stand 103): Gros Cap, Mackinac County, Michigan, Township 40N, Range 4W, Section 9. 1956-09

[s.l.]: [s.n.], 1956-09

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No.

Name:

Locality:

County:

T:

R:

Sec:

Date:

Observers:

Size of Stand

Size of Area Sampled:

Forest Type:

Soil Type:

Topography:

Slope:

Directions

Condition of Stand:

Open Grown Trees:

% Canopy:

Stumps:

1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁									
A ₂									
B									

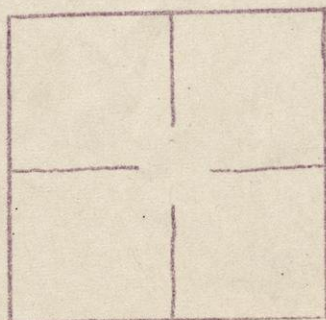
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	
A ₁	
A ₂	
B	

Parent Material:

Map:



S103 - Bros Cap Mackinac Co. - 40N-4W-9

1 mile W. road to Bros Cap on Hg 2 N. Mich

On dune ridges along N. shore L. Michigan - sample confined to very dry sandy ridges
depressions wet.

Soil profile 1/4 needles
3/4" black humus
2-3" leached grey brown sand
6" + red brown sand

Previously logged - burned

Tree layer quite sparse - large sandy openings rich in lichen mats

Type - Ab - To - Ws - Wp - Sp - Ll

Regeneration - mainly cedar + balsam but some Ws

Shrub layer - abundant Juniper

Dry Site

Size - 25 acres

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Station Number:

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	C. I.
			-80	-320	321										
Abies bals															
Acer rubru															
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

University of Wisconsin
STAND NO. 103

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Amelanchier spp.	
Betula lutea	
Betula papyrifera	
Carpinus caroliniana	
Crataegus spp.	
Fagus grandifolia	
Fraxinus americana	
Fraxinus nigra	
Fraxinus pennsylvanicum	
Larix laricina	
Ostrya virginiana	
Picea glauca	
Picea mariana	
Pinus banksiana	
Pinus resinosa	
Pinus strobus	
Populus balsamifera	
Populus grandidentata	
Populus tremuloides	
Prunus nigra	
Prunus pensylvanica	
Prunus serotina	
Prunus virginiana	
Pyrus americana	
Pyrus decora	
Quercus rubra	
Thuja occidentalis	
Tilia americana	
Tsuga canadensis	
Ulmus americana	
Ulmus rubra	
Ulmus thomasi	
<i>Ammophila arenaria</i>	✓
<i>Rudbeckia laciniata</i>	✓
<i>Pteropora andromeda</i>	✓
<i>Lithospermum coarctum</i>	✓
<i>Antennaria canadensis</i>	✓
<i>Andropogon scoparius</i>	✓
<i>Stellaria crassifolia</i>	✓
<i>Satureja sp. - acutifolia</i>	✓
<i>Ranunculus repens</i>	✓

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 103

TREES

✓ *Abies balsamea*
 ✓ *Acer pensylvanicum* seed
 ✓ *Acer rubrum* seedling
Acer saccharum
Acer spicatum
Amelanchier spp.
Betula lutea
 ✓ *Betula papyrifera*
Carpinus caroliniana
Crataegus spp.
Fagus grandifolia
Fraxinus americana

Fraxinus nigra
Fraxinus pennsylvanicum
 ✓ *Larix laricina*
Ostrya virginiana
 ✓ *Picea glauca*
Picea mariana
Pinus banksiana
Pinus resinosa
 ✓ *Pinus strobus*
 ✓ *Populus balsamifera*
Populus grandidentata
Populus tremuloides

Prunus nigra
Prunus pensylvanica
Prunus serotina
Prunus virginiana
Pyrus americana
Pyrus decora
 ✓ *Quercus rubra* var. *borealis* seedling
 ✓ *Thuja occidentalis*
Tilia americana
Tsuga canadensis
Ulmus americana
Ulmus rubra

SHRUBS

Alnus crispa
Alnus rugosa
 ✓ *Arctostaphylos uva-ursi*
Celastrus scandens
Chamaedaphne calyculata
Comptonia peregrina
Cornus alternifolia
Cornus racemosa
Cornus rugosa
 ✓ *Cornus stolonifera*
Corylus americana
Corylus cornuta
Diervilla lonicera
Dirca palustris
Empetrum nigrum
Gaylussaccia baccata
Hamamelis virginiana
Ilex verticillata
 ✓ *Juniperus communis*
Juniperus horizontalis
Ledum groenlandicum
 ✓ *Lonicera canadensis*
Lonicera dioica

Lonicera hirsutum
Lonicera involucrata
Lonicera oblongifolia
Lonicera villosa
Parthenocissus quinquefolia
Parthenocissus vitacea
Prunus pumila
Pyrus melanocarpa
Rhamnus alnifolia
Rhus glabra
Rhus typhina
Ribes americanum
Ribes cynosbati
Ribes glandulosum
Ribes hirtellum
Ribes lacustre
Ribes oxyacanthoides
Ribes triste
 ✓ *Rosa* sp.
Rubus allegheniensis
Rubus (blackberry)
Rubus (dewberry)
Rubus (raspberry)

Rubus idaeus
Rubus parviflorus
 ✓ *Salix* sp.
Sambucus canadensis
Sambucus pubens
 ✓ *Shepherdia canadensis*
Smilax tamnoides var. *hispida*
Spiraea alba
Spiraea latifolia
Symphoricarpos albus
Symphoricarpos occidentalis
Taxus canadensis
 ✓ *Vaccinium angustifolium*
 ✓ *Vaccinium myrtilloides*
Vaccinium vitis-idaea
Viburnum acerifolium
Viburnum cassinoides
Viburnum edule
Viburnum lentago
Viburnum rafinesquianum
Viburnum trilobum
Vitis vulpina
Zanthoxylum americanum

HERBS

✓ *Achillea millefolium*
Actaea pachypoda
Actaea rubra
Adiantum pedatum
Agrimonia gryposepala
Agrostis perennans
Allium tricoccum
Amphicarpa bracteata
 ✓ *Anaphalis margaritacea*
Anemone canadensis
Anemone cylindrica
 ✓ *Anemone quinquefolia*
Anemone virginiana
Antennaria sp.
Apocynum androsaemifolium
Aquilegia canadensis
 ✓ *Aralia nudicaulis*
Aralia racemosa
Arisaema atrorubens
Asarum canadense
Asclepias exaltata
Aster furcatus
 ✓ *Aster macrophyllus*
Aster nova-angliae
Aster paniculatus

Aster puniceus
Aster sagittifolius
Aster umbellatus
Athyrium filix-femina
Athyrium thelypteroides
Botrychium lunaria
Botrychium matricariaefolium
Botrychium multifidum
Botrychium virginianum
Calypso bulbosa
 ✓ *Campanula rotundifolia*
Carex arctata
Carex intumescens
Carex pensylvanica
Carex woodii
Carex spp.
 ✓ *Chimaphila umbellata*
 ✓ *Chrysanthemum leucanthemum*
Chrysosplenium americanum
Cinna latifolia
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clematis virginiana
Clematis verticillaris

✓ *Clintonia borealis*
Comandra richardsiana
Comandra umbellata
Coptis groenlandicum
Corallorhiza maculata
Corallorhiza striata
Corallorhiza trifida
 ✓ *Cornus canadensis*
Corydalis sempervirens
Cynoglossum officinale
Cypripedium acaule
Cypripedium calceolus var. *pubescens*
Cystopteris fragilis
Dalibarda repens
Desmodium glutinosum
Dicentra canadensis
Dicentra cucullaria
Dryopteris cristata
Dryopteris disjuncta
Dryopteris goldiana
Dryopteris marginalis
Dryopteris phegopteris
Dryopteris spinulosa

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

S-103

~~Epigaea repens~~
 Epilobium angustifolium
 Epilobium glandulosum
 Epilobium strictum
 Equisetum pratense
 Equisetum sylvaticum
 Erigeron annuus
 Erigeron philadelphicus
 Erigeron strigosus
 Erythronium albidum
 Erythronium americanum
 Fragaria vesca
~~Fragaria virginiana~~
 Galium aparine
 Galium boreale
 Galium concinnum
 Galium lanceolatum
 Galium triflorum
~~Gaultheria hispida~~
~~Gaultheria procumbens~~
 Gentiana andrewsii
 Gentiana crinata
 Gentiana quinquefolia
 Geocaulon lividum
 Geranium bicknellii
 Geranium maculatum
 Geum rivale
~~Goodyera repens~~
 Goodyera tessellata
 Habenaria hyperborea
 Habenaria orbiculata
 Habenaria psycodes
 Habenaria viridis
 Halenia deflexa
 Helianthus strumosus
 Hepatica acutiloba
 Hepatica americanum
~~Hieracium aurantiacum~~
~~Hieracium canadense~~
 Hieracium scabrum
 Impatiens capensis
 Iris lacustris
 Isopyrum biternatum
 Lathyrus ochroleucus
~~Linnæa borealis~~
 Lobelia inflata
 Lycopodium annotinum
 Lycopodium clavatum
 Lycopodium clavatum var. megastachyon
 Lycopodium complanatum
 Lycopodium inundatum

Lycopodium lucidulum
 Lycopodium obscurum
 Lycopodium obscurum var. dendroideum
 Lycopodium selago
 Lycopodium tristachyum
 Lysimachia ciliata
 Lysimachia quadrifolia
 Lysimachia terrestris
~~Maianthemum canadense~~
 Malaxis unifolia
 Medeola virginiana
~~Melampyrum lineare~~
 Mitchellia repens
 Mitella diphylla
 Mitella nuda
 Moneses uniflora
 Monotropa hypopithys
 Monotropa uniflorus
 Onoclea sensibilis
 Orchis spectabilis
 Osmorhiza claytoni
 Osmorhiza longistylis
 Osmunda cinnamomea
 Osmunda claytoniana
 Oxalis montana
 Oxalis stricta
 Panax quinquefolius
 Panax trifolius
 Petasites palmatus
 Phlox divaricata
 Poa compressa
~~Poa pratensis~~
~~Polygala paucifolia~~
 Polygonatum biflorum
 Polygonatum pubescens
 Polymnia canadensis
 Polypodium virginianum
 Potentilla norvegica
 Potentilla simplex
 Potentilla tridentata
 Prenanthes alba
 Primula mistassinaca
~~Prunella vulgaris~~
 Pteridium aquilinum
~~Pyrola asarifolia~~ with *P. virens*
 Pyrola elliptica
 Pyrola minor
 Pyrola rotundifolia
~~Pyrola secunda~~
 Pyrola virens
 Ranunculus abortivus

Ranunculus acris
 Ranunculus pensylvanicus
 Ranunculus recurvatus
 Ranunculus repens
 Ranunculus septentrionalis
~~Rhus radicans~~
~~Rubus pubescens~~
 Sanguinaria canadensis
 Sanicula marilandica
~~Satureja vulgaris~~
 Schizachne purpurascens
 Scutellaria epilobiifolia
 Scutellaria laterifolia
 Smilacina racemosa
~~Smilacina stellata~~
 Smilacina trifolia
 Smilax herbacea
 Solidago canadensis
 Solidago flexicaulis
 Solidago graminifolia
 Solidago ulmifolia
 Stellaria calycantha
 Streptopus amplexifolius
 Streptopus roseus
~~Taraxacum officinale~~
 Thalictrum dioicum
 Thalictrum polygamum
 Tiarella cordifolia
~~Trientalis borealis~~
 Trillium cernuum
 Trillium erectum
 Trillium grandiflorum
 Trillium undulatum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vicia americana
 Viola adunca
 Viola blanda
 Viola canadensis
 Viola conspersa
 Viola cucullata
 Viola incognita
 Viola nephrophylla
 Viola pallens
 Viola papilionacea
 Viola pubescens
 Viola renifolia
 Viola selkirkii
 Viola sororia
 Waldsteinia fragarioides

Additional species

Mosses
 Lichens
 Anemophila arenaria
 Oxytropis asperifolia
 Rudbeckia sp. - previously collected
 Tall red sp. - Pteropora andromeda
 Lithospermum croceum
 Aster ludleyanus
 Antennaria sp. caudata

Andropogon scoparius
 Solidago hispida
 Stellaria crassifolia
 Hedera
 Panicum virgatum

C. rangiferina
 C. mitis
 C. multiflorus
 C. gracilis
 C. cristatella
 C. fimbriata
 C. like fimbriata squar
 C. coniocraea
 Peltigera
 Phoradendron