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Site 1168: McIntosh Woods, Iowa County.

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STAND RECORD

FORESTS

Stand No. 1168

Name: McIntosh Woods
 County: Cass County, Iowa
 Date: July 1968
 Size of Stand: 10 acres
 Forest Type: Bur oak woods
 Topography:
 Locality: T: R: Sec:
 Observers: Gray and others
 Size of Area Sampled: 7 acres
 Soil Type: Prairie
 Slope: Directions

Condition of Stand:

Poor some cutting, formerly pastured,
 fenced, new data not taken, weedy

Canopy shots
 4, 5, 6, 7

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									

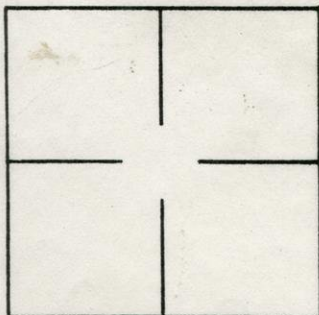
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	14-1/2	leaves, grass
A ₁	2 Fe +	black sandstone prairie profile
A ₂		
B		

Parent Material:

Map:



Big leaved pigweed
 artemisia

Phytolacca sp.
 Galium triflorum

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No.

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1168

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata								130		
Celtis occ										
Crataegus sp.				27						
Fagus grand										
Fraxinus am										
F. nigra										
Juglanscin										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	2									
Quercus alba										
Q. ellipsoid										
Q. macrocarpa	220 200	200 250	100 250	180	200 30	70	80 130	40	170 230	40
Q. rubra										
Q. velutina										
Tilia amer										
Ulmus amer	1	1				8401			11	80
Ulmus fulva										
Distance	25	14	16½	6	33	33	21	29	23	19

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1168

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
✓ Carya cord	95									
C. ovata										
Celtis occ										
Crataegus sp.		1					1		1	3
Fagus grand										
Fraxinus am							240	140	480	
F. nigra										
Juglanscin										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot										
Quercus alba										
Q. ellipsoid										
Q. macrocarpa	90	130 240	210 180	300 130	180 160	90 210	190		110	230 190
Q. rubra										
Q. velutina										
Tilia amer										
Ulmus amer			1							
Ulmus fulva										
Distance	278	198	418	338	308	316	368	328	338	308

108
1147
ag. in

Presence or Frequency
(Common species only)

PRAIRIES

Stand No. 1168
Quadrat No.

Achillea millefolium
Ambrosia artemisifolia
Ambrosia psilostachya
Amorpha canescens
Andropogon gerardi
Andropogon scoparius
Anemone canadensis
Anemone cylindrica
Anemone patens
Antennaria sp.
Apocynum androsaemifolium
Apocynum cannabinum
Arenaria stricta
Artemisia caudata
Asclepias amplexicaulis
Asclepias syriaca
Asclepias tuberosa
Asclepias verticillata
Asclepias viridiflora
Aster azureus
Aster ericoides
Aster laevis
Aster novae-angliae
Aster oblongifolius
Aster ptarmicoides
Aster sericeus
Baptisia leucantha
Baptisia leucophaea
Bouteloua curtipendula
Bouteloua hirsuta
Cacalia tuberosa
Calamagrostis canadensis
Ceanothus americanus
Cicuta maculata
Cirsium discolor
Comandra richardsiana
Convolvulus sepium
Coreopsis palmata
Cornus femina
Corylus americana
Desmodium canadense
Desmodium illinoense
Dodecatheon meadia
Elymus canadensis
Equisetum arvense
Equisetum kansanum
Erigeron strigosus
Eryngium yuccifolium
Euphorbia corollata

Fragaria virginiana
Galium boreale
Gentiana andrewsii
Gentiana puberula
Geranium maculatum
Geum triflorum
Hedeoma hispida
Helianthemum sp.
Helianthus grosseserratus
Helianthus laetiflorus
Helianthus occidentalis
Helianthus strumosus
Heliopsis helianthoides
Heuchera richardsonii
Hieracium longipilum
Hypoxis hirsuta
Iris virginica
Koeleria cristata
Krigia biflora
Kuhnia eupatorioides
Lactuca canadensis
Lactuca ludoviciana
Lathyrus palustris
Lathyrus venosus
Lespedeza capitata
Liatris aspera
Liatris cylindracea
Liatris pycnostachya
Lilium michiganense
Lilium philadelphicum
Linum sulcatum
Lithospermum canescens
Lithospermum croceum
Lithospermum incisum
Lobelia spicata
Monarda fistulosa
Muhlenbergia cuspidata
Muhlenbergia racemosa
Oenothera biennis
Oxalis violacea
Oxypolis rigidior
Panicum leibergii
Panicum oligosanthos
Panicum perlongum
Panicum virgatum
Petalostemum candidum
Petalostemum purpureum
Phlox pilosa
Physalis heterophylla

Physalis subglabrata
Physalis virginiana
Polygala senega
Polytaenia nuttallii
Potentilla arguta
Potentilla canadensis
Prenanthes racemosa
Psoralea esculenta
Pycnanthemum virginicum
Pyrus melanocarpa
Quercus macrocarpa
Ratibida pinnata
Rhus glabra
Rhus radicans
Rosa sp.
Rudbeckia hirta
Salix humilis
Saxifraga pensylvanica
Scutellaria parvula
Silphium integrifolium
Silphium laciniatum
Silphium terebinthinaceum
Sisyrinchium campestre
Smilacina stellata *racemosa*
Solidago altissima
Solidago gigantea
Solidago graminifolia
Solidago juncea
Solidago missouriensis
Solidago nemoralis
Solidago rigida
Solidago speciosa
Sorghastrum nutans
Spartina pectinata
Spiraea alba
Sporobolus heterolepis
Stipa spartea
Tephrosia virginiana
Thalictrum dasycarpum
Tradescantia ohioensis
Verbena stricta
Veronicastrum virginicum
Vicia americana
Viola pedata
Viola pedatifida *pubes*
Vitis vulpina
Zizia aptera
Zizia aurea

Additional species:

Urtica vulgaris
Ribes missouri
Amphicarp
Throstern
Parthenocissus
Desm. canadense
Cnicus lat
Crataegus
Polygonum
biduum

Presence List
(Uncommon species)

PRAIRIES

Stand No. 1168

Locality:

County:

Sec:

T:

R:

Date:

Observers:

Size of Stand:

Size of Area Sampled:

Condition of Stand:

Type:

Acer negundo
Agoseris cuspidata
Agropyron subsecun
Aletris farinosa
Allium canadense
A. cernuum
✓ Amphicarpa monoica
Anemone quinquefol
✓ A. virginiana
Apios americana
Aquilegia canadens
Arabis lyrata
Artemisia ludovici
A. serrata
Asclepias incarnat
A. lanuginosa
A. longifolia
A. ovalifolia
A. purpurascens
A. sullivantii
Aster linariifoliu
A. pilosus
A. sagittifolius
A. umbellatus
Astragalus candens
Blephilia ciliata
Bromus kalmii
Cacalia atriplicif
Cacalia suaveolens
Callirhoe triangul
Calopogon pulchell
Carex mühlenbergii
C. pensylvanica
C. vulpinoidea
Castilleja coccine
C. sessiliflora
Ceanothus ovatus

Celastrus scandens
Chrysopsis villosa
Cirsium hillii
C. undulatum
Crataegus sp.
Cypripedium candid
C. pubescens
Draba reptans
Dryopteris thelypt
Echinacea pallida
E. virginicus
Equisetum hyemale
Erigeron philadelp
E. pulchellus
Eupatorium altissi
Galium tinctorium
Gaura biennis
Gentiana crinita
G. flavida
G. procera
G. quinquefolia
Gerardia aspera
G. gattereri
G. grandiflora
Gnaphalium obtusif
Grindelia squarros
Habenaria leucopha
Hieracium canadens
Hierochloa odorata
Houstonia caerulea
H. longifolium
Hystrix patula
Lathyrus ochroleuc
Lechea tenuifolia
Leptoloma cognatum
Liatris ligulostyl

L. spicata
Lobelia kalmii
Lupinus perennis
Lycopus americanus
L. uniflorus
Lysimachia ciliata
L. lanceolata
L. quadriflora
L. quadrifolia
Lythrum alatum
✓ Mirabilis nyctagin
✓ Monarda punctata
Napaee dioica
Oenothera perennis
O. rhombipetala
Onoclea sensibilis
Orobanche fascicul
O. uniflora
Panicum praecocius
Parnassia glauca
Parthenium integri
✓ Parthenocissus ins
Pedicularis canad
P. lanceolata
Pentstemon digital
Petalostemum villo
Phalaris arundinac
Phlox glaberrima
Plantago rugelii
Polemonium reptans
Polygala polygama
P. sanguinea
P. verticillata
✓ Polygonatum commut
Populus tremuloide
Potentilla frutico

Prenanthes alba
P. aspera
Prunella vulgaris
Psoralea argophyll
Pteridium latiuscu
Pyrus ioensis
Rudbeckia subtomen
Sanicula sp.
✓ Scleria triglomera
Scrophularia lance
Selaginella rupest
Senecio aureus
S. pauperculus
Silene antirrhina
✓ S. stellata
Silphium perfoliat
Smilacina racemosa
Solidago riddellii
Specularia perfoli
Spiranthes ochrole
Sporobolus asper
S. cryptandrus
S. vaginiflorus
Stachys palustris
Symphoricarpos occ
Taenidia integerri
Thaspium aureum
Triosteum perfolia
Valeriana ciliata
Verbena hastata
Vernonia fascicula
Vicia angustifolia
V. villosa
Viola sagittata
Wulfenia bullii
Zigadenus elegans

Additional species:

Arya arata
Tilia
Crataegus
H. raspberry

red raspberry
Celtis occidentalis

Eupat. perfoliat
Sambucus canadensis

genus canadensis
Vitis

Circaea latifolia

Zanthoxylum

P. virginiana
P. serotina

Tree	BA	S	Tree	BA	S	Tree	BA	S
✓Acer negundo 1%			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			✓Quercus alba 5%		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			✓Q. macrocarpa 90%		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus delto			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
✓Carya cordifor 3%			P. tremuloides			✓Tilia american		
C. ovata			Prunus americ.			Ulmus american		
✓Celtis occiden			P. pennsylvan.			✓U. fulva		
✓Crataegus sp. 1%			✓P. serotina					

State Park

Machitosh Woods

8/22/50

Clear Lake, Iowa

JTC

CI = approx 328

Distance:

Tree	BA	S	Tree	BA	S	Tree	BA	S
Actaea sp.			<u>Shrubs & Herbs</u>			Polygonatum commut.		
Adiantum pedat.			Eupatorium purpur.			✓Polygonatum pubesc.		
✓Agrimonia gryp.			Eupatorium rugosum			Polygonum virgin.		
Allium tricocc.			Festuca obtusa			✓Potentilla simpl.		
✓Amphicarpa brac.			✓Fragaria virgin.			Prenanthes alba		
Anemone quinque.			Galium aparine			Pteridium aquil.		
A. virginiana			G. circaezans			Pyrola elliptica		
Anemonella thal.			✓G. concinnum			Ranunculus abort.		
Antennaria sp.			G. lanceolatum			R. recurvatus		
Aplectrum hiem.			✓G. triflorum			R. septentrion.		
Apocynum andros.			✓Geranium macul.			Rhus radicans		
Aquilegia canad.			✓Geum canadense			Ribes americanum		
Aralia nudicaul.			Goodyera pubesc.			✓R. cynosbati		
A. racemosa			Habenaria bract.			✓R. missouriense		
Arenaria later.			Hamamelis virg.			✓Rosa sp.		
Arisaema atror.			Helianthus strum.			✓Rubus alleghen.		
Asarum canad.			Hepatica acutil.			✓R. occidentalis		
Aster macronphyll.			Heuchera richard.			✓R. strigosus		
✓A. sagittifolius			Hydrastis canad.			✓Sambucus canad.		
A. shortii			✓Hydrophyllum virg.			Sanguinaria can.		
Athyrium angust.			Hystrix patula			Sanicula gregaria		
Aureolaria grandif.			Impatiens biflora			✓S. marilandica		
Botrychium vir.			I. pallida			✓Smilacina racemosa		
Brachyelytrum			Isopyrum bitern.			S. stellata		
Campanula amer.			Lactuca spicata			Smilax ecirrhata		
Carex albursina			Laportea canad.			S. herbacea		
C. pennsylvan.			Lapnula virgin.			S. hispida		
Caulophyllum thal.			Lathyrus ochrol.			Solidago altissima		
Celastrus scan.			Lonicera prolif.			S. latifolia		
✓Circaea latif.			Lysimachia quadr.			✓S. ulmifolia		
Claytonia virg.			Maianthemum can.			Thalictrum dioicum		
Cornus altern.			Menispermum can.			Trillium cernuum		
C. femina			Mitella diphylla			T. flexipes		
C. rugosa			✓Monarda fistulosa			T. grandiflorum		
Corylus americana			Orchis spectab.			T. recurvatum		
Cryptotaenia canad.			Cryzopsis racem.			✓Triosteum perfoliatum		
Cypripedium pubesc.			Osmorhiza clayton.			Uvularia grandiflora		
Cystopteris frag.			O. longistylis			✓Veronicastrum virg.		
Dentaria laciniata			Osmunda clayton.			Viburnum acerifolium		
Desmodium acumin.			Panax quinquef.			V. affine		
D. nudiflorum			Panicum latifolium			✓Viola cucullata		
Dicentra cucullaria			Parietaria pennsylv.			✓V. pubescens		
Dodecatheon meadia			✓Parthenocissus vit.			✓Vitis aestivalis		
Dryopteris spinulosa			Phlox divaricata			V. riparia		
Erigeron pulchellus			✓Phryma leptostachya			✓Zanthoxylum americ.		
Erythronium albidum			Podophyllum pelt.			Zizia aurea		
			Polemonium reptans					

Lit. michiganense

R. glabra

- ✓Achillea millefolium
- ✓Anemone cylindrica
- ✓Asclepias syriaca

✓ Agastache scrophul.
 Allium canadense
 Amorpha canesc.
 Anaphalis marg.
 Anemone cylindrica
 Arabis canadensis
 A. laevigata
 A. lyrata
 A. perstellata
 Aralia hispida
 Arisaema dracont.
 Asclepias ovalif.
 A. phytolaccoides
 Aster azureus
 A. paniculatus
 A. prenanthoides
 Athyrium thelypter.
 Besseyia bullii
 Boehmeria cylindr.
 Botrychium multif.
 Bromus burgans
 Camptosorus rhizop.
 Carex convoluta
 Ceanothus americ.
 Chimaphila umbell.
 Cirsium altissim.
 Clematis virgin.
 Clintonia boreal.
 Comandra umbellata
 Conopholis americ.
 Corallorrhiza mac.
 Corydalis semperv.
 Cynoglossum offic.
 Cystopteris bulbif.
 Desmodium bracteos.
 D. canadense
 Dicentra canadens.
 Diervilla lonicera
 Dioscorea villosa
 Dirca palustris
 Elymus villosus
 Epifagus virgin.

Erigeron philadel.
 Erythronium americ.
 Evonymus atropur.
 Floerkea prosperp.
 Fragaria vesca
 Galium boreale
 Gaultheria procumb.
 Gaylussacia baccata
 Gentiana quinquef.
 Geum virginianum
 Hedeoma hispida
 Hepatica americana
 Heracleum lanatum
 Hieracium canadens.
 H. scabrum
 Hydrophyllum append.
 Hypoxis hirsuta
 Ilex verticillata
 Juncus tenuis
 Juniperus communis
 J. virginiana
 Krigia biflora
 Lathyrus venosus
 Lilium philadel.
 Liparis liliifolia
 Lobelia cardinalis
 Lonicera dioica
 L. hirsuta
 Luzula acuminata
 L. Multiflora
 Milium effusum
 Mitchella repens
 Monotropa uniflora
 Onoclea sensibilis
 Oryzopsis asperif.
 Osmunda cinnamomea
 Oxalis violacea
 Panax trifolium
 Paronychia canad.
 Pedicularis canad.
 Physocarpus onul.
 Phytolacca decand.

Pilea pumila
 Polymnia canad.
 Polypodium vulgare
 Prunella vulgaris
 Pteretis nodulosa
 Pyrus coronaria
 P. ioensis
 Ranunculus fascicul.
 R. rhomboideus
 ✓ Rhus glabra
 R. typhina
 Rubus hispidus
 R. pubescens
 Rudbeckia laciniata
 Salix sp.
 ✓ Sambucus pubens
 Saxifraga pennsylv.
 Scrophularia lan.
 S. marilandica
 Senecio balsamitae
 Silene stellata
 Solanum nigrum
 Solidago speciosa
 Staphylea trifolia
 Steironema ciliatum
 S. lanceolatum
 Streptopus roseus
 Symplocarpus foet.
 Taenidia integerr.
 Taxus canadensis
 Thalictrum dasycarp.
 Thaspium aureum
 Tradescantia ohio.
 Uvularia sessilif.
 Vaccinium canad.
 Veronica serpyllif.
 Viburnum lentago
 V. trilobum
 Vicia americana
 Viola conspersa
 V. incognita

Additional Species:

A Bur Oak grove, with about 75-80% canopy.
 90% of stand estimated to be Bur Oaks.
 Ave. diam. - ca 18". Undisturbed, at least
 for many years. No cutting. Probably grazing in part.

Part of stand toward Clearlake shore is disturbed
 by picnic grounds of park. It is low and
 contains many very large Hackberry, large
 Slippery Elm, Basswood, Yellow-barked Hickory, Bur
 + White Oak. Understory could not be
 determined because of disturbance.

Macintosh Woods
 State Park, Iowa

8/22/50

JTC

F% D% Dom%

Tree	No. :Pts.:Tr.	No. :Tr.	Size Class sq. in. :12-80:81-320:321+	No. :Dom:Sap.:Seed:	F% :Seed:Tr.	R% :Tr.	D% :Tr.	Dom% :Trees:	D F D :Index:	Station No. 1168
Acerrubrum										Total Length of Transect
A. saccharum										Total Length of Transect
Carya cord.	1	1		95	3.6	2.5	1.0	7.1	60.4	
C. ovata	1	1		130	3.6	2.5	1.4	7.5	26.2	Ave. Dist. Btw'n Trees
Fagus grand.										$491/20 = 24.55 \times .8 = 19.6$
Fraxirus amer.	3	3		860	10.7	7.5	9.5	27.7	207.7	Saplings/unit area
F. pennsylvani.										Ave. BA (Total BA: 80)
Juglans cinere										$9074/40 = 226.9$
J. nigra										No. Trees/acre 112.9
Ostrya virgin.										Dom./acre 25,623.6
Populus grand.										
P. tremuloides										
Prunus serotin										
Quercus alba										
Q. macrocarpa	19	31		5900	67.8	17.5	64.9	210.2	210.2	
Q. rubra										
Q. velutina										
Tilia american.				2069						
Ulmus american:	3	3		820	10.7	7.5	22.7	40.9	163.6	
U. fulva										
Crataegus sp.	1	1		22	3.6	2.5	.2	6.3	18.6	(2)
Totals	28	80		9074						680.7

m.G. 5/5/52