



LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

Site 3509: Shawano County, Township 30N, Range 14E, Section 33; Township 30N, Range 14E, Section 34. 1952-08-07

[s.l.]: [s.n.], 1952-08-07

<https://digital.library.wisc.edu/1711.dl/VWLBCVJDQWG6B8S>

This material may be protected by copyright law (Title 17, US Code).

For information on re-use see:

<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

STAND RECORD

FORESTS

Stand No. 3509

Name:

County: *Shawano*Date: *8-7-52*

Size of Stand:

Forest Type: *White cedar hemlock*Topography: *Flat, along creek.*

Locality:

T: *30N* R: *14E* Sec: *33434*

Observers:

Christensen, Ward, Ware, Bray,

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand:

Near area sampled there was considerable cedar that had been clear cut.

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

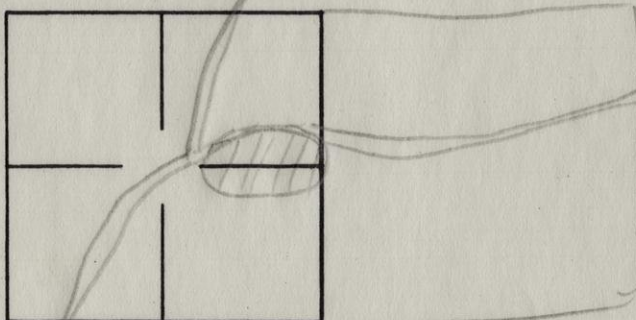
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	-----
A ₁	-----
A ₂	-----
B	-----

Parent Material:

v = browse presence

Map:



33

34

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Station Number: 3509

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL	F. % TRS	% SUM F. TR.	D. % TRS	DOM% TRS	DFD INDEX	Rowland	
			-80	-320	321										C. I.	
Abies bals	4	4	4	-	-	154	11	8.33		10.00	6.35	5.00	1.78	13.13	39.39	59.08
Acer rubru	4	4	1	3		382	12	9.09	35	10.00	6.35	5.00	4.42	15.77	110.39	94.62
A. sacchar	1	1	1	-	-	22	9	6.82	15	2.50	1.59	1.25	0.25	3.09	30.90	30.90
A. spicatu									35							
Betula lut	12	13	9	4	-	827	24	18.18	20	30.00	19.05	16.25	9.57	44.87	291.66	336.52
B. papyrif																
Carpinus c																
Fagus gran																
Ostrya vir																
Picea glau																
Pinus Bank																
P. resinosa																
P. Strobus	3	3	-	1	2	2050	-			2.50	4.76	3.75	23.71	32.22	96.66	128.88
Populus ba																
P. grandid																
P. tremulo	2	3	2	1	-	250	-			5.00	3.17	3.75	2.89	9.81	34.33	34.33
Prunus pen																
Quercus el																
Q. rubra																
Tilia amer							2	1.52								
Tsuga cana	12	19	14	5	-	1005	38	28.79		30.00	19.05	23.75	11.62	54.42	408.15	462.57
Thuja occi	10	15	5	7	3	2535	20	15.15	15	25.00	15.87	18.75	29.32	63.94	122.88	255.76
Ulmus amer	5	5	2	3	-	371	4	3.03		12.50	7.94	6.25	4.29	18.48	92.40	101.64
U. fulva																
Frax. nigra	10	13	8	5	-	1050	12	9.09	35	25.00	15.87	16.25	12.14	44.26	199.17	221.30
Prunus vir									15							
	63	80	46	29	5	8646	132	100			100	100	99.99	299.99	1430.93	1725.60

AVE. DIST. BTW'N TREES: 15.52

AVE B. A.: 108.08

TREES/ACRE:

DOM./ACRE:

621
40

209

22,589

Northern Pine-Barren

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3509

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam		70				13				
Acer rubrum			12				2	1		
A. sacchar.	22									
A. spicatum										
Betula lut.	20			40		50	3	12	1	27
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem			180		30					
Prunus pen.					40					
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ		95	95				15			
Ulmus amer										
U. fulva										
Fraxinus				90	2	2	45	15	85	20
Distance	7	12	12	11	13	5	17	25	17	12

131.0

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3509

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam		1	1	1	✓	55	2	✓	16	✓
Acer rubrum									1	1
A. sacchar.	✓	✓				1	1			✓
A. spicatum	✓	✓	✓		✓			✓	✓	✓
Betula lut.	1	✓	12	2			55	320	1	
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus							170			
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can		120 65	2	60 60	3	95 220	2	3	3	40 14
Thuja occ	3		✓			80	✓	1		3
Ulmus amer									85	
U. fulva										
Frax. nig	95 20		180						120	✓
Lonicera can	✓									✓
Laxus can										
Distance	13	11-6	15	10	11	20	15-6	19	22	14-6

151.5

Cornus alt.

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3509

STATION NO.	21	2	3	4	5	6	7	8	9	10
Abies balsam		✓	1							✓
Acer rubrum	120		2						1	1
A. sacchar.		✓	✓		✓	✓	✓	✓	✓	✓
A. spicatum					✓					
Betula lut.	20								80	
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer							✓			
Tsuga can	1	15/80	85/12	3	1	75	100	1	20	✓
Thuja occ	1	✓		35	12/40	✓	✓		✓	✓
Ulmus amer						1	16	3	120	20
U. fulva										130
Taxus can	✓									
Lonicera can	✓						✓		✓	
Ribes hirtell	✓		✓					✓		
Distance	17	10	28	8	13	19.6	11	11.6	30	26.6

174.5
over

7 not map

11.50

✓ 110 3

30 ✓

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3509

STATION NO.	31	2	3	4	5	6	7	8	9	10
Abies balsam		✓		1				✓		
Acer rubrum			140	110		✓		✓		
A. sacchar.		✓					✓	✓		✓
A. spicatum	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Betula lut.	✓			2	✓	80		110		✓
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus			1240							640
Populus bals										
P. grand										
P. trem										
Prunus pen.				✓		✓				
Quercus ell										
Q. rubra										
Tilia amer	✓					✓				
Tsuga can	✓	35	✓	20	✓	30	19	2	120	2
Thuja occ	290 90	65	4	✓	20	✓	120	✓	460 350	35
Ulmus amer										
U. fulva										
Gray nig	✓	✓		✓		✓	✓	45	✓	
Taxus	✓			✓	✓					
Ribes lac	✓									✓
Distance	16	12	17-6	7	7	18	29	26-6	7	24

Lyonberg Co

(over)
164.0

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3509
Quadrat No.

Actaea pachypoda /
Actaea rubra .
Adiantum pedatum
Allium tricoccum
Anemone quinquefolia
Aquilegia canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens IIII
Aster macrophyllus
Aster sagittifolius
Athyrium angustum
Botrychium virginianum
Brachyelytrum erectum
Carex albursina
Caulophyllum thalictroides
Chimaphila umbellata
Circaea alpina /
Circaea latifolia
Clintonia borealis III
Coptis trifolia IIII
Corallorrhiza maculata
Cornus alternifolia
Cornus canadensis
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera III
Dirca palustris
Dryopteris linnaeana /
Dryopteris phegopteris
Dryopteris spinulosa IIII
Epifagus virginiana
Epigaea repens

Fragaria virginiana
Galium lanceolatum
Galium triflorum IIII
Gaultheria procumbens
Gaylussacia baccata
Geranium maculatum
Geum canadense
Gnaphalium obtusifolium
Helianthemum sp.
Helianthus strumosus
Hepatica acutiloba
Hepatica americana
Impatiens biflora IIII
Linnaea borealis IIII
Lonicera oblongifolia
Lupinus perennis
Lycopodium annotinum
Lycopodium complanatum
Lycopodium lucidulum III
Lycopodium obscurum
Lysimachia quadrifolia
Maianthemum canadense IIII
Mitchella repens
Mitella diphylla
Mitella nuda IIII
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia
Osmorhiza claytoni
Oxalis montana III
Phryma leptostachya
Polygala pauciflora
Polygonatum commutatum
Polygonatum pubescens

Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus parviflorus
Rubus (blackberry)
Rubus (dewberry) IIII
Sambucus pubens /
Sanguinaria canadensis
Sanicula gregaria
Smilacina racemosa
Smilacina stellata
Smilax ecirrhata
Solidago ulmifolia
Streptopus roseus
Taxus canadensis II
Thalictrum dioicum
Trientalis borealis III
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

→ Acer spic. IIII → Acer rub. IIII Sambucus pub. 1 3 plant over
→ Frag. myr. IIII 4 Bet. lat. IIII
→ 3 Acer sacch. IIII 3 Thuya IIII
→ 3 Prun. arg. IIII

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3509

✓ *Abies balsamea*
 ✓ *Acer rubrum*
 ✓ *Acer saccharum*
 ✓ *Acer spicatum*
Amelanchier sp.
 ✓ *Betula lutea*
 ✓ *Betula papyrifera*
Caprinus caroliniana
Carya cordiformis
Crataegus sp.
Fagus grandiflora
Fraxinus americana
Fraxinus nigra

Fraxinus pennsylvanica
Juglans cinerea
Larix laricina
Ostrya virginiana
Picea glauca
Pinus banksiana
Pinus resinosa
Pinus strobus
Populus balsamifera
Populus grandidentata
 ✓ *Populus tremuloides*
Prunus pennsylvanica
Prunus serotina

Prunus virginiana
Quercus alba
Quercus ellipsoidalis
Quercus macrocarpa
Quercus rubra
Sorbus decora
 ✓ *Thuja occidentalis*
Tilia americana
Tsuga canadensis
Ulmus americana
Ulmus fulva

HERBS AND SHRUBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Alnus rugosa
Amphicarpa bracteata
Anemone canadensis
Anemone quinquefolia
Antennaria sp.
Apocynum androsaemifolium
Apocynum cannabinum
Aquilegia canadensis
 ✓ *Aralia nudicaulis*
 ✓ *Aralia racemosa*
Arctostaphylos uva-ursi
Arisaema atrorubens
Asarum canadense
Asclepias phytolaccoides
Aster cordifolius
 ✓ *Aster lateriflorus*
 ✓ *Aster macrophyllus*
Aster prenanthoides
Aster sagittifolius
Aster shortii
Aster umbellatus
 ✓ *Athyrium angustum*
Aureolaria pedicularia
Boehmeria cylindrica
 ✓ *Botrychium virginianum*
 ✓ *Brachyelytrum erectum*
Bromus purgans
Campanula americana
Carex albursina
Carex pensylvanica
Caulophyllum thalictroides
Celastrus scandens
Chimaphila umbellata
Chiogenes hispida

✓ *Circaea alpina*
Circaea latifolia
Claytonia caroliniana
Claytonia virginiana
 ✓ *Clintonia borealis*
Convolvulus spithameus
 ✓ *Coptis trifolia*
Corallorrhiza maculata
Corallorrhiza striata
Cornus alternifolia
 ✓ *Cornus canadensis*
Cornus femina
Cornus rugosa
Corylus americana
 ✓ *Corylus cornuta*
Cryptotaenia canadensis
Cypripedium acaule
Cypripedium pubescens
 ✓ *Cystopteris fragilis*
Danthonia spicata
Dentaria diphylla
Desmodium glutinosum
Desmodium nudiflorum
Dicentra canadensis
Dicentra cucullaria
 ✓ *Diervilla lonicera*
Dirca palustris
 ✓ *Dryopteris linneana*
 ✓ *Dryopteris phegopteris*
 ✓ *Dryopteris spinulosa*
Epifagus virginiana
Epigaea repens
Equisetum arvense
Erythronium americanum
Fragaria virginiana
Galium aparine
Galium boreale
Galium circaezans
Galium concinnum

Galium lanceolatum
 ✓ *Galium triflorum*
Gaultheria procumbens
Gaylussacia baccata
Geranium maculatum
Geum canadense
Gnaphalium obtusifolium
Goodyera pubescens
Goodyera repens
Habenaria bracteata
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Hepatica americana
Hieracium canadense
Hydrophyllum virginianum
Hystrix patula
 ✓ *Impatiens biflora*
Lactuca canadensis
 ✓ *Laportea canadensis*
Lappula virginica
Lathyrus ochroleucus
Ledum groenlandicum
 ✓ *Linnaea borealis*
 ✓ *Lonicera canadensis*
Lonicera hirsuta
Lonicera oblongifolia
Lonicera prolifera
Luzula multiflora
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
Lycopodium tristachyum
Lycopus americanus
Lycopus uniflora
Lysimachia quadrifolia
 ✓ *Maianthemum canadense*

3509

✓ Melampyrum lineare
 ✓ Mitchella repens
 Mitella diphylla
 ✓ Mitella nuda
 Monarda fistulosa
 Moneses uniflora
 ✓ Monotropa uniflora
 Myrica asplenifolia
 ✓ Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 Osmunda cinnamomea
 Osmunda claytoniana
 Oxalis montana
 Panax quinquefolia
 Parietaria pennsylvanica
 ✓ Parthenocissus vitacea
 Pedicularis lanceolata
 Phytolacca leptostachya
 Podophyllum peltatum
 Polemonium reptans
 Polygala pauciflora
 Polygonatum commutatum
 ✓ Polygonatum pubescens
 Potentilla simplex
 ✓ Prenanthes alba
 ✓ Pteris nodulosa
 ✓ Pteridium aquilinum

✓ Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus abortivus
 Ranunculus recurvatus
 Ranunculus septentrionalis
 Rhus radicans
 Rhus typhina
 Ribes americanum
 Ribes cynosbati
 Ribes lacustre
 ✓ Ribes triste
 Rubus idaeus
 Rubus parviflorus
 Rubus hispidus
 Rubus - blackberry
 Rubus - dewberry ✓
 Rubus - raspberry
 Sambucus canadensis
 Sambucus pubens
 Sanguinaria canadensis
 Sanicula gregaria
 Schizachne purpurascens
 Scutellaria lateriflora
 Shepherdia canadensis
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata

Smilax herbacea
 Smilax hispida
 Solidago latifolia
 Solidago ulmifolia
 Streptopus amplexifolius
 Streptopus roseus
 Taxus canadensis
 Thalictrum dioicum
 Tiarella cordifolia
 ✓ Trientalis borealis
 ✓ Trillium cernuum
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viburnum affine
 Viburnum lentago
 Viola canadensis
 Viola cucullata
 Viola incognita
 Viola pallens
 Viola pubescens
 Vitis aestivalis
 Vitis riparia
 Waldsteinia fragarioides
 Zanthoxylum americanum

Additional Species:

✓ Epilobium densa
 ✓ Glycyrrhiza striata
 Trifoliate vine Clematis virginica
 Carex intumescens
 Potentilla norvegica
 aster purpureus
 Polygonum pub.

TABULATION FORM

Univ. of Wisconsin

Stand No. 3509

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HERBS:																							
<i>Actaea pachypoda</i>	✓																						/
<i>Actaea rubra</i>																							
<i>Adenocaulon bicolor</i>																							
<i>Adiantum pedatum</i>	✓																						
<i>Agrimonia gryposepala</i>																							
<i>Allium tricoccum</i>																							
<i>Alnus incana</i>																							
<i>Alnus rugosa</i>	✓																						
<i>Amphicarpa bracteata</i>																							
<i>Anemone canadensis</i>																							
<i>Anemone cylindrica</i>																							
<i>Anemone quinquefolia</i>																							
<i>Antennaria</i> sp.																							
<i>Apocynum androsaemifoliu</i>																							
<i>Apocynum cannabinum</i>																							
<i>Aquilegia canadensis</i>																							
<i>Aralia hispida</i>																							
<i>Aralia nudicaulis</i>	✓																						
<i>Aralia racemosa</i>	✓																						
<i>Arctostaphylos uva-ursi</i>																							
<i>Arisaema atrorubens</i>	✓																						+
<i>Asarum canadense</i>																							
<i>Asclepias exaltata</i>																							
<i>Aster cordifolius</i>																							
<i>Aster lateriflorus</i>	✓																						/
<i>Aster macrophyllus</i>	✓																						
<i>Aster prenanthoides</i>																							
<i>Aster sagittifolius</i>																							
<i>Aster shortii</i>																							
<i>Aster umbellatus</i>																							
<i>Athyrium filix-femina</i>	✓																						
<i>Athyrium thelypteroides</i>																							
<i>Boehmeria cylindrica</i>																							
<i>Botrychium lanceolatum</i>																							
<i>Botrychium matricariaefol</i>																							
<i>Botrychium virginianum</i>	✓																						
<i>Brachyleytrum erectum</i>	✓																						
<i>Bromus purgans</i>																							
<i>Campanula americana</i>																							
<i>Campanula rotundifolia</i>																							
<i>Cardamine pensylvanica</i>																							
<i>Carex albursina</i>																							
<i>Carex pensylvanica</i>																							
<i>Carex plantaginea</i>																							
<i>Caulophyllum thalictroid</i>																							
<i>Ceanothus ovatus</i>																							
<i>Celastrus scandens</i>																							
<i>Chimaphilia umbellata</i>																							
<i>Cicuta maculata</i>																							
<i>Circaea alpina</i>	✓																						/
<i>Circaea quadrisulcata</i>																							

Data Form No. 23
TABULATION FORM

Plant Ecology Research
NORTHERN PINE-HARDWOODS

Univ. of Wisconsin
Stand No. 3509

Stand No. 3509

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Cirsium altissimum																							
Claytonia caroliniana																							
Claytonia virginica																							
Clematis verticillaris																							
Clintonia borealis	✓																					3	
Comandra richardsiana																							
Comptonia peregrina																							
Convolvulus spithameus																							
Coptis groenlandica	✓																					8	
Corallorhiza maculata																							
Corallorhiza striata																							
Corallorhiza trifida																							
Coreopsis palmata																							
Cornus alternifolia	✓																						
Cornus canadensis	✓																						
Cornus foemina																							
Cornus rugosa																							
Corydalis sp.																							
Corylus americana																							
Corylus cornuta	✓																						
Cryptotaenia canadensis																							
Cynoglossum boreale																							
Cypripedium acaule																							
Cypripedium parviflorum																							
Cypripedium pubescens																							
Cystopteris fragillis	✓																					3	
Danthonia spicata																							
Dentaria diphylla																							
Desmodium glutinosum																							
Desmodium nudiflorum																							
Dicentra canadensis																							
Dicentra cucullaria																							
Diervilla lonicera	✓																						
Dirca palustris																							
Dryopteris bootii																							
Dryopteris cristata																							
Dryopteris goldiana																							
Dryopteris disjuncta	✓																					1	
Dryopteris phegopteris	✓																						
Dryopteris spinulosa	✓																					12	
Epifagus virginiana																							
Epigaea repens																							
Equisetum arvense																							
Equisetum hyemale																							
Equisetum sylvaticum																							
Erigeron philadelphicus																							
Erythronium albidum																							
Erythronium americanum																							
Eupatorium rugosum																							
Festuca obtusa																							
Fragaria virginiana																							

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3509

[illegible]

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3509

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Lycopodium annotinum	✓																						
Lycopodium clavatum	✓																						
Lycopodium complanatum																							
Lycopodium lucidulum	✓																					3	
Lycopodium obscurum																							
Lycopodium tristachyum																							
Lycopus americanus	✓																					2	
Lycopus uniflorus																							
Lysimachia ciliata																							
Lysimachia quadrifolia																							
Maianthemum canadense	✓																					7	
Malaxis unifolia																							
Medeola virginiana																							
Melampyrum lineare																							
Menispermum canadense																							
Milium effusum																							
Mitchella repens	✓																						
Mitella diphylla																							
Mitella nuda	✓																					9	
Monarda fistulosa																							
Moneses uniflora	✓																						
Monotropa hypopithys																							
Monotropa uniflora	✓																					1	
Nemopanthus mucronata	✓																						
Onoclea sensibilis	✓																					1	
Orchis spectabilis																							
Oryzopsis asperifolia	✓																						
Oryzopsis racemosa																							
Osmorhiza claytoni																							
Osmunda claytoniana																							
Osmunda cinnamomea																							
Osmunda regalis																							
Oxalis montana	✓																					3	
Panax quinquefolius																							
Panax trifolius																							
Panicum latifolium																							
Parietaria pensylvanica																							
Parthenocissus inserta	✓																						
Pedicularis lanceolata																							
Phlox divaricata																							
Phlox pilosa																							
Phyrma leptostachya																							
Pilea pumila																							
Podophyllum peltatum																							
Polemonium reptans																							
Polygala paucifolia																							
Polygonatum canaliculatu																							
Polygonatum pubescens	✓																						
Polypodium virginianum																							
Potentilla arguta																							
Potentilla simplex																							

NORTHERN PINE-HARDWOODS

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Prenanthes alba	✓																						
Prunella vulgaris																							
Pteretis pensylvanica	✓																					1	
Pteridium aquilinum	✓																						
Pyrola asarifolia																							
Pyrola elliptica	✓																						
Pyrola minor																							
Pyrola rotundifolia																							
Pyrola secunda																							
Pyrola virens																							
Ranunculus abortivus																							
Ranunculus recurvatus																							
Ranunculus septentrional																							
Rhus radicans																							
Rhus typhina																							
Ribes americanum																							
Ribes cynosbati																							
Ribes lacustre	✓																					3	
Ribes triste	✓																						
Rosa sp.																							
Rubus idaeus																							
Rubus parviflorus																							
Rubus hispidus																							
Rubus - blackberry	✓																						
Rubus - dewberry	✓																					6	
Rubus - raspberry	✓																						
Salix sp.	✓																						
Sambucus canadensis	✓																						
Sambucus pubens	✓																					1	
Sanguinaria canadensis																							
Sanicula gregaria																							
Sanicula marilandica																							
Schizachne purpurascens																							
Scutellaria lateriflora																							
Senecio aureus																							
Shepherdia canadensis																							
Smilacina racemosa																							
Smilacina stellata																							
Smilax ecirrhata																							
Smilax herbacea																							
Smilax hispida																							
Solidago canadensis	✓																						
Solidago flexicaulis																							
Solidago ulmifolia																							
Spiraea alba																							
Stellaria longifolia																							
Streptopus amplexifolius																							
Streptopus roseus																							
Symphoricarpos albus																							
Taxus canadensis	✓																						2
Thalictrum dioicum																							

Data Form No. 23
TABULATION FORM

Plant Ecology Research
NORTHERN PINE-HARDWOODS

Stand No. 3509

[illegible]

TABULATION FORM

NORTHERN LOWLANDS

STAND NO. 3509

[illegible]

TABULATION FORM

NORTHERN LOWLANDS

STAND NO. 3509

[illegible]

TABULATION FORM

NORTHERN LOWLANDS:

STAND NO. 3509

[illegible]

Date Form No. 17

Plant Ecology Research

Univ. of Wisconsin

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3509

- ✓ *Abies balsamea*
- ✓ *Acer rubrum*
- ✓ *Acer saccharum* (saplings)
- ✓ *Acer spicatum*
- Amelanchier* sp.
- ✓ *Betula lutea* (mostly saplings)
- Betula papyrifera*
- Caprinus caroliniana*
- Carya cordiformis*
- Crategeus* sp.
- Fagus grandiflora*
- Fraxinus americana*
- ✓ *Fraxinus nigra* (saplings)

- Fraxinus pennsylvanica*
- Juglans cinerea*
- Larix laricina*
- Ostrya virginiana*
- Picea glauca*
- Pinus banksiana*
- Pinus resinosa*
- ✓ *Pinus strobus*
- Populus balsamifera*
- Populus grandidentata*
- ✓ *Populus tremuloides*
- Prunus pennsylvanica*
- Prunus serotina*

- ✓ *Prunus virginiana*
- Quercus alba*
- Quercus ellipsoidalis*
- Quercus macrocarpa*
- Quercus rubra*
- Sorbus decora*
- * ✓ *Thuja occidentalis*
- * ✓ *Tilia americana*
- * ✓ *Tsuga canadensis*
- Ulmus americana*
- Ulmus fulva*

HERBS AND SHRUBS

- ✓ *Actaea pachypoda*
- Actaea rubra*
- ✓ *Adiantum pedatum*
- Agrimonia gryposepala*
- Allium tricoccum*
- ✓ *Alnus rugosa*
- Amphicarpa bracteata*
- Anemone canadensis*
- Anemone quinquefolia*
- Antennaria* sp.
- Apocynum androsaemifolium*
- Apocynum cannabinum*
- Aquilegia canadensis*
- ✓ *Aralia nudicaulis*
- Aralia racemosa*
- Arctostaphylos uva-ursi*
- ✓ *Arisaema atrorubens*
- Asarum canadense*
- Asclepias phytolepis*
- Aster cordifolius*
- Aster lateriflorus*
- ✓ *Aster macrophyllus*
- Aster prenanthoides*
- Aster sagittifolius*
- Aster shortii*
- Aster umbellatus*
- Athyrium angustum*
- Aureolaria pedicularia*
- Boehmeria cylindrica*
- ✓ *Botrychium virginianum*
- Brachyelytrum erectum*
- Bromus purgans*
- Campanula americana*
- Carex albursina*
- Carex pensylvanica*
- Caulophyllum thalictroides*
- Celastrus scandens*
- Chimaphila umbellata*
- Chiogenes hispidula*

- ✓ *Circaea alpina*
- Circaea latifolia*
- Claytonia caroliniana*
- Claytonia virginiana*
- ✓ *Clintonia borealis*
- Convolvulus spithameus*
- ✓ *Coptis trifolia*
- Corallorrhiza maculata*
- Corallorrhiza striata*
- Cornus alternifolia*
- ✓ *Cornus canadensis*
- Cornus femina*
- Cornus rugosa*
- Corylus americana*
- ✓ *Corylus cornuta*
- Cryptotaenia canadensis*
- Cypripedium acaule*
- Cypripedium pubescens*
- Cystopteris fragilis*
- Danthonia spicata*
- Dentaria diphylla*
- Desmodium glutinosum*
- Desmodium nudiflorum*
- Dicentra canadensis*
- Dicentra cucullaria*
- Diervilla lonicera*
- Dirca palustris*
- ✓ *Dryopteris linneana*
- ✓ *Dryopteris phegopteris*
- ✓ *Dryopteris spinulosa*
- Epifagus virginiana*
- Epigaea repens*
- Equisetum arvense*
- Erythronium americanum*
- Fragaria virginiana*
- Galium aparine*
- Galium boreale*
- Galium circaeans*
- Galium concinnum*

- Galium lanceolatum*
- ✓ *Galium triflorum*
- Gaultheria procumbens*
- Gaylussacia baccata*
- Geranium maculatum*
- Geum canadense*
- Gnaphalium obtusifolium*
- Goodyera pubescens*
- ? ✓ *Goodyera repens*
- ✓ *Habenaria bracteata*
- Hamamelis virginiana*
- Helianthus strumosus*
- Hepatica acutiloba*
- Hepatica americana*
- Hieracium canadense*
- Hydrophyllum virginianum*
- Hystrix patula*
- ✓ *Impatiens biflora*
- ✓ *Lactuca canadensis*
- Laportea canadensis*
- Lappula virginica*
- Lathyrus ochroleucus*
- Ledum groenlandicum*
- ✓ *Linnaea borealis*
- ✓ *Lonicera canadensis*
- Lonicera hirsuta*
- Lonicera oblongifolia*
- Lonicera prolifera*
- Luzula multiflora*
- ✓ *Lycopodium annotinum*
- ✓ *Lycopodium clavatum*
- Lycopodium complanatum*
- ✓ *Lycopodium lucidulum*
- Lycopodium obscurum*
- Lycopodium tristachyum*
- Lycopus americanus*
- Lycopus uniflora*
- Lysimachia quadrifolia*
- ✓ *Maianthemum canadense*

Menominee

T30 N R14E S33434

7-30-52

Data Form No. 17 (P.2)

3509

Melampyrum lineare	Pyrola elliptica	Smilax herbacea
Mitchella repens	Pyrola rotundifolia	Smilax hispida
Mitella diphylla	Pyrola secunda	Solidago latifolia
✓ Mitella nuda	Ranunculus abortivus	Solidago ulmifolia
Monarda fistulosa	Ranunculus recurvatus	Streptopus amplexifolius
✓ Moneses uniflora	Ranunculus septentrionalis	Streptopus roseus
Monotropa uniflora	Rhus radicans	Taxus canadensis
Myrica asplenifolia	Rhus typhina	Thalictrum dioicum
Onoclea sensibilis	Ribes americanum	Tiarella cordifolia
✓ Oryzopsis asperifolia	Ribes cynosbati	✓ Trientalis borealis
Osmorhiza claytoni	✓ Ribes lacustre	Trillium cernuum
Osmunda cinnamomea	Ribes triste	✓ Trillium grandiflorum
Osmunda claytoniana	Rubus idaeus	Uvularia grandiflora
✓ Oxalis montana	Rubus parviflorus	Uvularia sessilifolia
Panax quinquefolia	Rubus hispidus	Vaccinium angustifolium
Parietaria pennsylvanica	Rubus - blackberry	Vaccinium pennsylvanicum
Parthenocissus vitacea	✓ Rubus - dewberry	Viburnum acerifolium
Pedicularis lanceolata	✓ Rubus - raspberry	Viburnum affine
Phytolacca leptostachya	✓ Sambucus canadensis	Viburnum lentago
Podophyllum peltatum	Sambucus pubens	Viola canadensis
Polemonium reptans	Sanguinaria canadensis	Viola cucullata
Polygala pauciflora	Sanicula gregaria	✓ Viola incognita
Polygonatum commutatum	Schizachne purpurascens	Viola pallens
Polygonatum pubescens	Scutellaria lateriflora	Viola pubescens
Potentilla simplex	Shepherdia canadensis	Vitis aestivalis
Prenanthes alba	Smilacina racemosa	Vitis riparia
Pteris nodulosa	Smilacina stellata	Waldsteinia fragarioides
Pteridium aquilinum	Smilax ecirrhata	Zanthoxylum americanum

Additional Species:

Aster pruniceus
 Carex trisperma
 Ilex verticillata
 Hemiphanthus mucronata
 Salix
 Cinna arundinacea
 Carex intumescens
 Vaccinium oxycoccos
 Solidago canadensis

Abundant seeds of Acer
 spic. & in droppings
 observed. Rabbit browsing
 evident. Little Frax nigra
 except seedlings & saplings.