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Site 3512: Vilas County, Township 41N, Range 8E, Section 17. 1952-08-09

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Deeryard

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No.

F
3512

Name:

Locality:

County: *Adams*

T: *41N*

R: *8E*

Sec: *17*

Date: *8-9-52*

Observers: *Christensen, Ward, Ware, Bray*

Size of Stand:

Size of Area Sampled:

Forest Type: *Red maple-white birch, Balsam*

Soil Type:

Topography: *Upland, rolling*

Slope:

Directions

Condition of Stand:

Balsam & white pine highland. Conifers subjected to extreme usage. Deer trails abundant

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

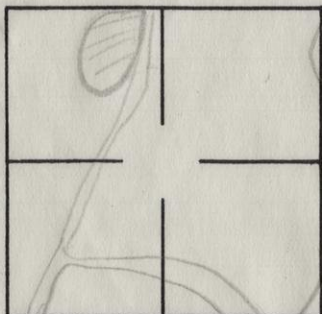
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	
A ₁	
A ₂	
B	

Parent Material:

V = browse presence

Map:



Razorback Lake

Northern Pine-Hardwoods

Station Number: 3512

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	Upland C. I.
			-80	-320	321										
Abies bals	4	4	4	-	-	123	26	19.26	35	10.0	6.06	5.00	4.40	15.46	108.22
Acer rubru	16	22	22	-	-	713	47	34.81	90	40.0	24.24	27.50	25.49	77.23	463.38
A. sacchar							7	5.19	10						
A. spicatu															
Betula lut															
B. papyrif	24	30	30	-	-	858	38	28.15	5	60.0	36.36	37.50	30.68	104.57	522.70
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa	1	1	1	-	-	30	1	0.74		2.5	1.52	1.25	1.07	3.84	11.52
P. Strobus	11	12	12	-	-	498	10	7.41	5	27.5	16.67	15.00	17.80	49.47	247.35
Populus ba															
P. grandid															
P. tremulo	3	3	2	1	-	220			10	7.5	4.55	3.75	7.87	16.17	32.34
Prunus pen															
Quercus el															
Q. rubra	7	8	7	1	-	355	2	1.48	35	17.5	10.61	10.00	12.69	33.30	199.80
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Prunus virg.							3	2.22	5						
Amelanchier							1	0.74							
	66	80	78	2		2797	135	100			100.01	100	100	300.01	1585.3

AVE. DIST. BTW'N TREES:

$$\frac{507.5}{40} = 12.69$$

AVE B. A.:

34.96

TREES/ACRE:

312

DOM./ACRE:

10908

154332

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No.

3512

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	✓ 3		2	2	55			1	2	
Acer rubrum	1	✓ 4				45	25	22	4	15 40 3
A. sacchar.									2	1
A. spicatum										
Betula lut.										
B. papyrif	16 35	30	25 20	25	1	3	20	35	15	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus					35					
Populus bals										
P. grand										
P. trem		120		65		35				
Prunus ^{virg.} pen.			1				1			
Quercus ell										
Q. rubra								45		
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Corylus	✓			✓			✓			
Distance	9 1/2	15	20 1/2	9 1/2	7 1/2	13	9	11 1/2	9	15 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No.

3512
F

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam				2	1	18	1			
Acer rubrum	3	20	3	1			30	1	2	20
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	16	1	1	40	2	40	30	1	30	1
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa				30						
P. Strobus	80						30	1	70	30
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra					2					
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Amelanchier						1				
Corylus cor										
Prunus ser.										
Distance	19-6	9	17	9	11	9	18	9-6	9	14-6

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No.

3512
F

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	1					1	3		2	1
Acer rubrum			2	1		30 30 17	1		85 24 40	13 1
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	15 35	45	70 25	12	3	70 4	16 1	3	1	2
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus	35	7	17			26	15			
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra				55	24		90	50	50	
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Corylus cor										
Distance	16	13	17	10-6	14	11	15-6	14-6	15	16-6

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3512

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam					2	35		15	2	✓
Acer rubrum		12	20 40	4	2	15	2	35	18	3
A. sacchar.	4									
A. spicatum										
Betula lut.										
B. papyrif		20		20 15	25		2	35	30	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus				1	10				1	45 45
Populus bals										3
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra	35 50									
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Corylus										
Distance	10	10	7	10	10	12	14	16	12	17

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. ^F
Quadrat No. 3512✓ ~~ACER SACCH. SUB~~ II
✓ ~~ACER RUBRUM~~ SEEDLING III III

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

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

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

✓ Fir SEEDLING ~~III~~
 C. N. N. S. ~~III~~
 CORYLUS ~~III~~
 ✓ Pop. trem II
 ✓ RED OAK ~~III~~

Schizachne pung.
 ✓ PRUNUS VIRG. I

[illegible]

Data Form No. 23
TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3512

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	✓																					4	
Comandra richardsiana																							
Comptonia peregrina																							
Convolvulus spithameus																							
Coptis groenlandica	✓																					1	
Corallorhiza maculata																							
Corallorhiza striata																							
Corallorhiza trifida																							
Coreopsis palmata																							
Cornus alternifolia																							
Cornus canadensis	✓																					4	
Cornus foemina																							
Cornus rugosa																							
Corydalis sp.																							
Corylus americana																							
Corylus cornuta	✓																					9	
Cryptotaenia canadensis																							
Cynoglossum boreale																							
Cypripedium acaule																							
Cypripedium parviflorum																							
Cypripedium pubescens																							
Cystopteris fragillis																							
Danthonia spicata																							
Dentaria diphylla																							
Desmodium glutinosum																							
Desmodium nudiflorum																							
Dicentra canadensis																							
Dicentra cucullaria																							
Diervilla lonicera	✓																						
Dirca palustris	✓																						
Dryopteris bootii																							
Dryopteris cristata																							
Dryopteris goldiana																							
Dryopteris disjuncta																							
Dryopteris phegopteris																							
Dryopteris spinulosa																							
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. 3512

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Fragaria vesca</i>																							
<i>Galium aparine</i>																							
<i>Galium boreale</i>																							
<i>Galium circaezans</i>																							
<i>Galium concinnum</i>																							
<i>Galium lanceolatum</i>																							
<i>Galium triflorum</i>	✓																						/
<i>Gaultheria hispidula</i>																							
<i>Gaylussacia baccata</i>																							
<i>Geranium maculatum</i>																							
<i>Gerardia pedicularia</i>																							
<i>Geum canadense</i>																							
<i>Geum rivale</i>																							
<i>Gnaphalium obtusifolium</i>																							
<i>Goodyera oblongifolia</i>																							
<i>Goodyera pubescens</i>																							
<i>Goodyera repens</i>																							
<i>Habenaria bracteata</i>																							
<i>Habenaria orbiculata</i>																							
<i>Hackelia virginiana</i>																							
<i>Halenia deflexa</i>																							
<i>Hamamelis virginiana</i>																							
<i>Helianthus strumosus</i>																							
<i>Hepatica acutiloba</i>																							
<i>Hepatica americana</i>	✓																						/
<i>Heuchera richardsonii</i>																							
<i>Hieracium canadense</i>																							
<i>Hieracium scabrum</i>																							
<i>Hydrophyllum virginianum</i>																							
<i>Hystrix patula</i>																							
<i>Ilex verticillata</i>																							
<i>Impatiens biflora</i>																							
<i>Impatiens pallida</i>																							
<i>Isopyrum bitermum</i>																							
<i>Krigia biflora</i>																							
<i>Lactuca canadensis</i>																							
<i>Laportea canadensis</i>																							
<i>Lathyrus ochroleucus</i>																							
<i>Lathyrus venosus</i>																							
<i>Ledum groenlandicum</i>																							
<i>Lilium michiganense</i>																							
<i>Linnaea borealis</i>																							
<i>Lithospermum canescens</i>																							
<i>Lobelia inflata</i>																							
<i>Lonicera canadensis</i>																							
<i>Lonicera hirsuta</i>																							
<i>Lonicera oblongifolia</i>																							
<i>Lonicera prolifera</i>																							
<i>Lupinus perennis</i>																							
<i>Luzula acuminata</i>																							
<i>Luzula multiflora</i>																							

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3512

[illegible]

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																							
Pteridium aquilinum	✓																						14
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																							
Ribes triste																							
Rosa sp.																							
Rubus idaeus																							
Rubus parviflorus																							
Rubus hispidus																							
Rubus - blackberry																							
Rubus - dewberry	✓																						3
Rubus - raspberry																							
Salix sp.																							
Sambucus canadensis																							
Sambucus pubens																							
Sanguinaria canadensis																							
Sanicula gregaria																							
Sanicula marilandica																							
Schizachne purpurascens	✓																						2
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																							
Thalictrum dioicum																							

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3512

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Trientalis borealis	✓																						13
Trillium cernuum																							
Trillium grandiflorum																							
Uvularia grandiflora																							
Uvularia sessilifolia																							
Vaccinium angustifolium	✓																						11
Vaccinium myrtilloides																							
Veronicastrum virginicum																							
Viburnum acerifolium																							
Viburnum rafinesquianum																							
Viburnum lentago																							
Viola adunca																							
Viola blanda																							
Viola canadensis																							
Viola conspersa																							
Viola cucullata																							
Viola pensylvanica																							
Viola incognita	✓																						6
Viola pallens																							
Viola pubescens																							
Viola renifolia																							
Vitis aestivalis																							
Vitis riparia																							
Waldsteinia fragarioides	✓																						15
Xanthoxylum americanum																							
Zizia aurea																							
Additional species:																							
Gaultheria procumbens	✓																						1
Cinna arundinacea	✓																						3

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. F

✓ *Abies balsamea* //
 ✓ *Acer rubrum* // //
 ✓ *Acer saccharum*
 ✓ *Acer spicatum*
 ✓ *Amelanchier* sp.
 ✓ *Betula lutea*
 ✓ *Betula papyrifera* /
 ✓ *Caprinus caroliniana*
 ✓ *Carya cordiformis*
 ✓ *Crategeus* 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 phytoecoides
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 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 // //

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
 Phyrma leptostachya
 Podophyllum peltatum
 Polemonium reptans
 Polygala pauciflora
 Polygonatum commutatum
 Polygonatum pubescens
 Potentilla simplex
 Prenanthes alba
 Pteretis 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 ~~3512~~
 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:

? Tac. canadense ~~///~~ ~~///~~