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Site 3600: Burnett County, Township 38N, Range 15W, Section 23. 1953-07-23

[s.l.]: [s.n.], 1953-07-23

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STAND RECORD

FORESTS

Stand No. 3600

Name:

County: Burnett

Date: 7-23-53

Size of Stand:

Forest Type:

Topography: rolling, upland

Locality:

T: 38N R: 15W Sec: 23

Observers: Christensen

Size of Area Sampled:

Soil Type: sandy

Slope: Directions

Condition of Stand:

Some cutting in one section of sugar pines. Otherwise no cutting.

Browsing universally found, but moderate. Pinus banksiana, P. strobus, and Quercus ellipsoidalis all used and all the broadleaf forms to some extent.

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

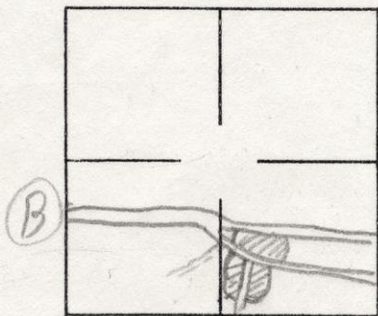
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	
A ₁	
A ₂	
B	

Parent Material:

X = Browse presence

Map:



Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

Northern Pine-Hardwoods

Station Number: 3600

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															
Acer rubru							16	10.00	15						
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	2	2	2			26	8	5.00		5.0	2.44	1.25	0.48	4.17	20.85
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank	31	88	86	2		2913	60	37.50	15	77.5	37.80	55.00	53.28	146.08	438.24
P. resinosa	5	6	4	2		466	16	10.00	5	12.5	6.10	3.75	8.52	18.37	642.95
P. Strobus	2	2	2			92	6	3.75		5.0	2.44	1.25	1.68	5.37	21.48
Populus ba															
P. grandid	14	29	29			801	24	15.00		35.0	17.07	18.13	14.65	49.85	249.25
P. tremulo	9	10	10			196	14	8.75	5	22.5	10.98	6.25	3.59	20.82	72.87
Prunus pen															
Quercus el	14	16	14	2		743	15	9.38	50	35.0	17.07	10.00	13.59	40.66	81.32
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Quercus mac															
Ulmus amer	1	1	1			20				2.5	1.2	0.63	0.37	2.21	4.42
Salix									5						
U. fulva															
Prunus vir									10						
Quercus alba	4	6	6			210	1	0.63	5	10.0	4.88	3.75	3.84	12.47	49.88
Amelanchier									5						
	82	160	154	6		5467	160	100.01			99.99	100.01	100	300	525.85

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3600

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam										
Acer rubrum									2	
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	4									1
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			(4		(4	(5	(5	(5	(4	
Pinus Bank	X 3	5 6	X 7 4	X 5 4	X 5 6	X 5 4	X 5 2	X 5 1	X 5 4	X 2
P. resinosa			(6	X 10 4	X 2		X 2 6	X 2		
P. Strobus	1						X 1	X 1	1	
Populus bals	(14									(5
P. grand	{ 4 5	7 X					X 1		(6 6	1
P. trem		5							1 6	
Prunus pen.										
Quercus ell		X		6 T		X	X 3		4	
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
over Prunus ser		X			X					X
Corylus am		X							X	
Amelanchier			X	X		X				
Distance from abt.			3	X	2	P	5	8	2	10

25
600

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3600

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam										
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		(6	(4	(7	(5	(6	(5	(5	(7	
Pinus Bank	2	7	7	X 7	6	4	X 8	7	X 4	7
P. resinosa		3	7	4	6	4	3	4	4	4
P. Strobus		2			14	4				
Populus bals										
P. grand										
P. trem	4	X 2	X 4	5	X 4	X 1	X		X 4	4
Prunus pen.										
Quercus ell					X		3		8	X
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Corylus am	X	X	X	X	X	X	X	X	X	
Amelanchier	X							X		
Quercus mac	5									
Distance	Salix				2	P	3	8	8	X

58
1501

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No.

STATION NO.	21	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>										
<i>Acer rubrum</i>			XX 2		X	X 2				
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lutea</i>										
<i>B. papyrifera</i>		4	X 1							
<i>Carpinus caroliniana</i>										
<i>Fagus grandifolia</i>										
<i>Ostrya virginica</i>							(3)			
<i>Picea glauca</i>			(12)				(6)	(7)	(10)	
<i>Pinus Banksiana</i>	9	6	X 4	8 (6)	7	X 1	6 4	X 7	X 4	X 8
<i>P. resinosa</i>							(4)	2 (10)	2 (4)	3 (8)
<i>P. strobus</i>	6	1					1			
<i>Populus balsamifera</i>										
<i>P. grandidentata</i>		1	4	2	4	2	4	3		
<i>P. tremula</i>						4	5		X 2	X 1
<i>Prunus pennsylvanica</i>										
<i>Quercus ellipsoides</i>	4 4	2	X 1		6			X		X 2
<i>Q. rubra</i>										
<i>Tilia americana</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Ulmus americana</i>										
<i>U. fulva</i>										
<i>Corylus americana</i>	X								X	X
<i>Prunus virginiana</i>	X						X		X	
<i>Blackberry</i>	X								X	
Distance										

84
2655

Distance	1	2	3	4	5	6	7	8	9	10
<i>Quercus alba</i>	4				5					
<i>Stevilla</i>							X			X
<i>Rosa</i>									X	
<i>Amelanchier</i>									X	
<i>Cornus femina</i>									X	
<i>Salix</i>									X	
<i>Lilium</i>										
<i>Chrysanthemum</i>										
<i>Geranium</i>										
<i>Verbena</i>										
<i>Salvia</i>										
<i>Hyssopus</i>										
<i>Thymus</i>										
<i>Origanum</i>										
<i>Monarda</i>										
<i>Asclepias</i>										
<i>Delphinium</i>										
<i>Penstemon</i>										
<i>Verbascum</i>										
<i>Thalictrum</i>										
<i>Colchicum</i>										
<i>Galium</i>										
<i>Urtica</i>										
<i>Rubus</i>										
<i>Sorbus</i>										
<i>Malus</i>										
<i>Crataegus</i>										
<i>Opuntia</i>										
<i>Echinocystis</i>										
<i>Conium</i>										
<i>Scilla</i>										
<i>Hyacinthus</i>										
<i>Galanthus</i>										
<i>Primula</i>										
<i>Viola</i>										
<i>Antirrhinum</i>										
<i>Linum</i>										
<i>Stachys</i>										
<i>Agrostis</i>										
<i>Poa</i>										
<i>Festuca</i>										
<i>Phleum</i>										
<i>Briza</i>										
<i>Setaria</i>										
<i>Echinochloa</i>										
<i>Digitaria</i>										
<i>Chenopodium</i>										
<i>Amaranthus</i>										
<i>Portulaca</i>										
<i>Suaeda</i>										
<i>Salicornia</i>										
<i>Sarcocolla</i>										
<i>Opuntia</i>										
<i>Echinocystis</i>										
<i>Conium</i>										
<i>Scilla</i>										
<i>Hyacinthus</i>										
<i>Galanthus</i>										
<i>Primula</i>										
<i>Viola</i>										
<i>Antirrhinum</i>										
<i>Linum</i>										
<i>Stachys</i>										
<i>Agrostis</i>										
<i>Poa</i>										
<i>Festuca</i>										
<i>Phleum</i>										
<i>Briza</i>										
<i>Setaria</i>										
<i>Echinochloa</i>										
<i>Digitaria</i>										
<i>Chenopodium</i>										
<i>Amaranthus</i>										
<i>Portulaca</i>										
<i>Suaeda</i>										
<i>Salicornia</i>										
<i>Sarcocolla</i>										

POINT RECORD THREE

NORTHERN PINE-HARDWOODS

Stand No.

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3600

STATION NO.	31	2	3	4	5	6	7	8	9	10
Abies balsam										
Acer rubrum		2		2		X	1		1	7
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif		1				1	X	4		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank	10 X 12 3	X					6 X	7	X	X
P. resinosa		7				1	2			14
P. Strobus		9								
Populus bals			(6	(5		(5				
P. grand	4	7	X 5	X 5	X 5	X 6		5 X	4	
P. trem		1	6 3	5 1	5 4	5 2		8	5	2
			4		6				6	
Prunus pen.										
Quercus ell	7 X 1	6		1 6	12	7	10 1	4 X	10	6 14
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Corylus am	X				X				X	
Amelanchie	X								X	
Salix		X	X							
Distance	X		3	11 X	2					16

88
2913

HERB FREQUENCY

all 1245
Pinus banks 3

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium tricoccum
Anemone quinquefolia 3
Aquilegia canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus 14
Aster sagittifolius 125
Athyrium angustum 5
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 3
Corylus cornuta
Cypripedium acaule
Diervilla lonicera 345
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa
Epifagus virginiana
Epigaea repens 1

? *Erigeron (Danthoma) spicata* 12
 ? *Erigeron* 1234
Amphicarpa 15
Lactuca 1235
Ranunculus 25 *Solidago patula*
Amelanchier 2'

NORTHERN PINE-HARDWOODS

Prunus penn 3
Acer rubrum 45
Fragaria virginiana
Galium lanceolatum 1234
Galium triflorum
Gaultheria procumbens 12345
Gaylussacia baccata
Geranium maculatum 125
Geum canadense
Gnaphalium obtusifolium
Helianthemum sp.
 ? *Helianthus strumosus* 1345
Hepatica acutiloba
Hepatica americana
Impatiens biflora
Linnaea borealis
Lonicera oblongifolia
Lupinus perennis
Lycopodium annotinum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
Lysimachia quadrifolia 3
Maianthemum canadense
Mitchella repens
Mitella diphylla
Mitella nuda
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia 45
Osmorhiza claytoni
Oxalis montana
Phryma leptostachya
Polygala pauciflora
Polygonatum commutatum
Polygonatum pubescens

Carex narrow 5
 ? *Anemone* 125

Stand No. 3600

Quadrat No. 1-5

Quercus alba 5
Potentilla simplex
Prenanthes alba
Pteridium aquilinum 12345
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus recurvatus
Rhus radicans 4
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 3
Taxus canadensis
Thalictrum dioicum
Trientalis borealis
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum 134
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3600
Quadrat No. 5-10

✓ *Amelanchier* 1
✓ *Amis res.* 2
Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium tricoccum
Anemone quinquefolia
Aquilegia canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus 1
Aster ~~sagittifolius~~ ^{apiculatus} 25
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 1234
Corylus cornuta
Cypripedium acaule
Diervilla lonicera 245
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa
Epifagus virginiana
Epigaea repens

✓ *Q. ell.* 234
✓ *P. miss banks* 5
Fragaria virginiana
Galium lanceolatum 12345
Galium triflorum 1
Gaultheria procumbens 25
Gaylussacia baccata
Geranium maculatum
Geum canadense
Gnaphalium obtusifolium
Helianthemum sp.
2 *Helianthus strumosus* 124
Hepatica acutiloba
Hepatica americana
Impatiens biflora
Linnaea borealis
Lonicera oblongifolia
Lupinus perennis
Lycopodium annotinum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
Lysimachia quadrifolia 1
Maianthemum canadense 5
Mitchella repens
Mitella diphylla
Mitella nuda
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia 3
Osmorhiza claytoni
Oxalis montana
Phryma leptostachya
Polygala pauciflora
Polygonatum commutatum
Polygonatum pubescens 5

Potentilla simplex
Prenanthes alba
Pteridium aquilinum 145
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus parviflorus
Rubus (blackberry) 4
Rubus (dewberry)
Sambucus pubens
Sanguinaria canadensis
Sanicula gregaria
Smilacina racemosa
Smilacina stellata
Smilax ecirrhata
Solidago ulmifolia
Streptopus roseus
Taxus canadensis
Thalictrum dioicum
Trientalis borealis
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
" *cam.* 1345
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

✓ *Equisetum*
Carex nanon 12345
Saxs (2) 12
Lathyrus 1235
Rosette 3 *Solidago patula*
Saxs (2) 3 *Danthonia spicata*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3600
Quadrat No. 11-15*Prunus* 1
Juniperus banksiana 2*Acer rubrum* 2
Quercus ell. 4*Pop. trem.* 5

Actaea pachypoda

Fragaria virginiana

Potentilla simplex

Actaea rubra

Galium lanceolatum 45

Prenanthes alba

Adiantum pedatum

Galium triflorum

Pteridium aquilinum 345

Allium tricoccum

Gaultheria procumbens 134

Pyrola elliptica

Anemone quinquefolia

Gaylussacia baccata

Pyrola rotundifolia

Aquilegia canadensis

Geranium maculatum

Pyrola secunda

Aralia nudicaulis

Geum canadense

Ranunculus recurvatus

Aralia racemosa

Gnaphalium obtusifolium

Rhus radicans

Arisaema atrorubens

Helianthemum sp.

Ribes americanum

Aster macrophyllus 14

Helianthus strumosus 45

Rosa sp.

Aster sagittifolius 14

Hepatica acutiloba

Rubus parviflorus

Athyrium angustum 4

Hepatica americana 5

Rubus (blackberry) 15

Botrychium virginianum

Impatiens biflora

Rubus (dewberry)

Brachyelytrum erectum

Linnaea borealis

Sambucus pubens

Carex albursina

Lonicera oblongifolia

Sanguinaria canadensis

Caulophyllum thalictroides

Lupinus perennis

Sanicula gregaria 5

Chimaphila umbellata

Lycopodium annotinum

Smilacina racemosa

Circaea alpina

Lycopodium complanatum

Smilacina stellata

Circaea latifolia

Lycopodium lucidulum

Smilax ecirrhata 4

Clintonia borealis

Lycopodium obscurum

Solidago ulmifolia 4

Coptis trifolia

Lysimachia quadrifolia 3

Streptopus roseus

Corallorrhiza maculata

Maianthemum canadense

Taxus canadensis

Cornus alternifolia

Mitchella repens

Thalictrum dioicum 5

Cornus canadensis 5

Mitella diphylla

Trientalis borealis

Cornus rugosa

Mitella nuda

Trillium grandiflorum

Corylus americana 15

Monotropa uniflora

Uvularia grandiflora

Corylus cornuta

Myrica asplenifolia

Uvularia sessilifolia

Cypripedium acaule

Onoclea sensibilis

Vaccinium angustifolium

Diervilla lonicera 34

Oryzopsis asperifolia 45

Vaccinium pennsylvanicum

Dirca palustris

Osmorhiza claytoni

Viburnum acerifolium 1345

Dryopteris linnaeana

Oxalis montana

Viola canadensis

Dryopteris phegopteris

Phryma leptostachya

Viola cucullata

Dryopteris spinulosa

Polygala pauciflora

Viola pallens

Epifagus virginiana

Polygonatum commutatum

Viola pubescens

Epigaea repens

Polygonatum pubescens 5

Waldsteinia fragarioides

? Anemone 14
Carex nanow 123
amphicarpia 2
Erans (Muhlenbergia) 2
Lathyrus 45
amelanchier 5

Rosa 5

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3600
Quadrat No. 16-20

Quercus ell. 14
 Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 Anemone quinquefolia
 Aquilegia canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 Aster macrophyllus 1345
 Aster sagittifolius 1
 " *umbellatus* 3
 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 13
 Corylus cornuta
 Cypripedium acaule
 Diervilla lonicera 2
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens 2

Brass 2 13
 Carex nanou 12345
 Salix 2
 Amphicarpa 245
 Polygonum-like 2
 Antennaria 3

Fragaria virginiana
 Galium lanceolatum 5
 Galium triflorum
 Gaultheria procumbens 134
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus 1234
 Hepatica acutiloba
 Hepatica americana
 Impatiens biflora
 Linnaea borealis
 Lonicera oblongifolia
 Lupinus perennis 3
 Lycopodium annotinum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia 1
 Maianthemum canadense
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia 12
 Osmorhiza claytoni
 Oxalis montana
 Phryma leptostachya
 Polygala pauciflora
 Polygonatum commutatum
 Polygonatum pubescens

Rosette 34
 Lathyrus 4
 Rosa 4
 Brass 4
 Amelanchier 5
 Solidago pauciflora
 Danthonia spicata

Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum 12345
 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 1
 Smilacina stellata
 Smilax ecirrhata
 Solidago ulmifolia
 Streptopus roseus
 Taxus canadensis
 Thalictrum dioicum
 Trientalis borealis
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 " *can*
 Viburnum acerifolium 135
 Viola canadensis
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

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>	✓	✓				✓							✓					✓		✓	✓	✓	6
<i>Anemone canadensis</i>																							
<i>Anemone cylindrica</i>																							
<i>Anemone quinquefolia</i>	✓				✓																	1	
<i>Antennaria</i> sp.	✓																		✓			1	
<i>Apocynum androsaemifolium</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>	✓	✓			✓		✓					✓			✓		✓		✓	✓	✓	✓	9
<i>Aster prenanthoides</i>																							
<i>Aster sagittifolius</i>																							
<i>Aster shortii</i>																							
<i>Aster umbellatus</i>	✓					✓									✓				✓			3	
<i>Athyrium filix-femina</i>																							
<i>Athyrium thelypteroides</i>																							
<i>Boehmeria cylindrica</i>																							
<i>Botrychium lanceolatum</i>																							
<i>Botrychium matricariaefolium</i>																							
<i>Botrychium virginianum</i>																							
<i>Brachyelytrum 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 thalictroides</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

Stand No. 3600

[illegible]

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3600

[illegible]

Data Form No. 23
TABULATION FORM

Plant Ecology Research
NORTHERN PINE-HARDWOODS

Stand No. 3600

[illegible]

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3600

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

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																						
Trillium cernuum																						
Trillium grandiflorum																						
Uvularia grandiflora																						
Uvularia sessilifolia																						
Vaccinium angustifolium	✓	✓		✓	✓		✓		✓	✓	✓	✓		✓	✓	✓	✓		✓		✓	14
Vaccinium myrtilloides																						
Veronicastrum virginicum																						
Viburnum acerifolium	✓																					
Viburnum rafinesquianum	✓																					
Viburnum lentago																						
Viola adunca																						
Viola blanda																						
Viola canadensis																						
Viola conspersa																						
Viola cucullata																						
Viola pensylvanica																						
Viola incognita																						
Viola pallens																						
Viola pubescens																						
Viola renifolia																						
Vitis aestivalis																						
Vitis riparia	✓																					
Waldsteinia fragarioides																						
Xanthoxylum americanum																						
Zizia aurea																						
Additional species:																						
Aster aureus	✓	✓	✓			✓		✓			✓	✓		✓		✓						8
Euthyria procumbens	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓		✓		✓	✓			11
Hesperis matronalis	✓							✓										✓	✓			3
Carex spp.	✓																					
Broomrape ciliatus	✓	✓	✓	✓	✓		✓	✓								✓		✓				8
Nemone virginiana	✓	✓	✓			✓					✓				✓							5
Muhlenbergia	✓										✓		✓									2
Veronica virginiana																						
Spartina																						
Foeniculum	✓																					
Danthonia spicata	✓	✓	✓						✓											✓		4
Oenothera purpurea	✓																					
Paulownia latifolia	✓																					

Abies balsamea			Actaea pachypoda
Acer negundo			Actaea rubra
Acer rubrum			Adiantum pedatum
Acer saccharum			Agastache foeniculum
Acer spicatum			Agrimonia grypsospala
Betula lutea			Agropyron repens
Betula papyrifera	4.1		Agrostis alba
Crataegus spp.			Agrostis gigantea
Carpinus caroliniana			Agrostis perennans
Carya cordiformis			Agrostis scabra
Carya ovata			Allium tricoccum
Fagus grandifolia			Alnus rugosa
Fraxinus americana			Amphicarpa bracteata
Fraxinus nigra			Anaphalis margaritacea
Juglans cinerea			Andromeda glaucophylla
Larix laricina		5	Anemone quinquefolia
Ostrya virginiana		25	Anemone virginiana
Picea glauca			Angelica atropurpurea
Picea mariana		5	Antennaria spp.
Pinus resinosa	18.4	✓	Apocynum androsaemifolium
Pinus strobus	5.4	✓	Aquilegia canadensis
Populus balsamifera			Arabis canadense
Populus deltoides			Aralia hispida
Populus grandidentata	50	✓	Aralia nudicaulis
Populus tremuloides	21		Aralia racemosa
Prunus pensylvanica			Arctium minor
Prunus serotina			Arctostaphylos uva-ursi
Prunus virginiana			Arisaema atrorubens
Pyrus americana			Asarum cordifolius
Pyrus decora			Aster junciformis
Quercus bicolor			Aster lateriflorus
Quercus rubra		45	Aster macrophyllus
Salix nigra			Aster novae-angliae
Thuja occidentalis			Aster sagittifolius
Tilia americana			Aster shortii
Tsuga canadensis		15	Aster umbellatus
Ulmus americana			Athyrium filix-femina
Ulmus rubra			Betula pumila
Ulmus thomasi			Bidens cernua
			Bidens coronata
			Bidens frondosa
			Boehmeria cylindrica
			Botrychium virginianum
MHC			Brachyelytrum erectum
pH			Bromus ciliatus
Depth base			Bromus purgens
Chac. base			Calamagrostis canadensis
Chac. peat			Calla palustris
Fe++			Caltha palustris
Fe+++			Calopogon pulchellus
Size fractions 1			Campanula aparinoides
2		✓	Campanula rotundifolia
3			Cardamine pensylvanica
4			Carex albursina
5			Carex crinita
Cl.			Carex disperma
SO ₄			Carex hystrixina
Ca			Carex interior
Mg			Carex intumescens
K			Carex lacustris
P			Carex lasiocarpa
NO ₃			Carex leptalea
NH ₄			Carex leptoneura
Organic matter			
Specific gravity			

Data Form No. 85

Univ. of Wisconsin

Plant Ecology Research

Northern Lowland

Stand No: 3600

Continuum Index:

1551.26
Type:

Location

T: 38N R: 15W S: 23

County:

Burnett

Place:

Investigators:

Christensen

Date: 7-23-53

Method of Sampling:

Remarks:



Remarks:

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3600

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 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
 Cyripedium acaule
 Cyripedium 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
 Lycopodium americanus
 Lycopodium 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 *mandarin*
 Schizachne purpurascens
 Scutellaria lateriflora
 Shepherdia canadensis
 ✓ Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata

Smilax herbacea 3600
 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:

✓ Lactuca
 Monarda