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Site 3614 (4040): Cascade, Sheboygan County, Township 14N, Range 20E, Section 28. 1951-06-14

[s.l.]: [s.n.], 1951-06-14

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[Site 3614]

3614

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No.

4032
(4040)

Name: Cascade

County: Sheboygan

Date: June 14, 1951

Size of Stand: 36 acres +

Forest Type: White cedar-hardwoods

Topography: flat

Locality:

T: 14N R: 20E Sec: 28 SW:SW

Observers: Bray & Brown

Size of Area Sampled: 10 acres

Soil Type: muck

Slope:

Directions

Condition of Stand:

quite a bit of cutting some time
No blood pressure
Pictures 1, 2, 3

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									

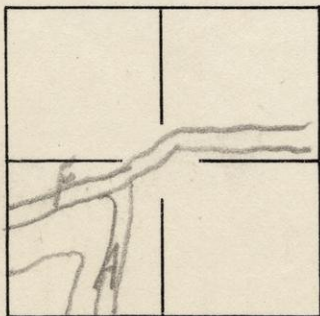
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	12 in mostly deciduous leaves
A ₁	deep black decomposed organic matter - wet
A ₂	
B	

Parent Material:

Map:



TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Station Number: 3614
(4040)

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	Lowland C. I.
			-80	-320	321										
Abies bals															
Acer rubru							4	5.13							
A. sacchar															
A. spicatu															
Betula lut	6	6	5	1		343	3	3.85		30.0	17.65	15.00	17.83	50.48	328.12 378.60
B. papyrif	1	1	1			43				5.0	2.94	2.50	2.23	7.67	34.52 38.35
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo	1	1	1			60				5.0	2.94	2.50	3.12	8.56	29.96 29.96
Prunus pen															
Quercus el															
→ Quercus Q. rubra							8	10.26							
Tilia amer	1	1	1			17	3	3.85		5.0	2.94	2.50	0.88	6.32	44.24 53.72
→ Salix nig Tsuga canad							1	1.28							
Thuja occi	12	17	16	1		790	14	17.95		60.0	35.29	42.50	41.06	118.85	237.70 475.40
Ulmus amer	3	3	2	1		200	2	2.56		15.0	8.82	7.50	10.39	26.71	133.55 146.90
rubra U. fulva	1	1	1	1		125				5.0	2.94	2.50	6.50	11.94	83.58 95.50
Frax am	1	1	1			14	2	2.56		5.0	2.94	2.50	0.73	6.17	33.94 43.19
Frax. nig.	7	8	8			310	41	52.56	10	35.0	20.59	20.00	16.11	56.70	255.15 283.50
Juglans cin.	1	1	1			22				5.0	2.94	2.50	1.14	6.58	52.64 52.64
	34	40	36	4	-	1924	78	100			99.99	100	99.99	299.98	1233.70 1597.78

AVE. DIST. BTW'N TREES:

 $\frac{312.5}{20} = 15.63$

AVE B. A.:

48.10

TREES/ACRE:

205.9

DOM./ACRE:

9,903.8

GILBERT BOND

25% COTTON FIBRE

USA

Thuya

46.47 87.5 40.66

Tree Data Summary

FLOOD-PLAIN HARDWOODS

Stand No. 4040

Station Number:

TREE	#	#	DOM. CLASSES			TOT.	#	D.%	F.%	F.%	% SUM	D. %	DOM%	DFD	C. I.
	PTS	TRS	-80	-320	321	DOM.	SAP	SAP	SDL.	TRS.	F. TR.	TRS.	TRS.	INDEX	
Acer negundo															
A. saccharin															
A. sacchar															
Betula nigra															
Carya cordif															
Celtis occid															
Crataegus sp															
Frax. amer.	1	1				14					2.9	2.5	.7	6.1	
F. nigra	7	8				310					20.5	20.0	16.0	56.5	
F. pensylv															
Gleditsia tr															
Gymnocladus															
Juglans cin	1	1				22					2.9	2.5	1.1	6.5	
Platanus occ															
Populus delt															
P. tremulo	1	1				60					2.9	2.5	3.1	8.5	
Prunus serot															
Quercus bico															
Q. rubra															
Robinia pseu															
Salix nigra															
Tilia amer	1	1				17					2.9	2.5	.8	6.2	
Ulmus amer	3	3				200					8.8	7.5	10.3	26.6	
U. rubra	1	1				125					2.9	2.5	6.4	11.8	
Betula lutea	6	6				343					17.6	15.0	17.8	50.4	
Thuja	12	17				790					35.2	42.5	41.0	118.7	
Betula papy	1	1				43					2.9	2.5	2.2	7.6	

AVE. DIST. BTW'N TREES:

34 40

AVE B. A.:

1924

TREES/ACRE:

DOM./ACRE:

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i> Acer negundo										1
A. saccharinum										
A. saccharum										
<i>Betula nigra</i> Betula nigra						1	40	160		
Carya cordiformis										
Celtis occident.										
Crataegus sp.										
Fraxinus americ.										
F. nigra	4	5			3	50	55	11	11	13
F. pensylvanica		4			25					4
Gleditsia triacan.										
Gymnocladus dioica										
Juglans cinerea										22
Platanus occident.										
Populus deltoides										
P. tremuloides										
Prunus serotina										
Quercus bicolor										
Q. rubra										
Robinia pseudo.										
Salix nigra										
Tilia americana				17	1					
Ulmus americana				1		1				
U. rubra										
<i>Thuja</i> Thuja	35	60	140	65	55		5	45	17	50
<i>Alder</i> Alder	12	25	25	1	60	1	11	1	11	
			4							
Distance	8½	29½	15	10	13	9	19½	13	12½	17

Alder



STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer negundo										
A. saccharinum										
A. saccharum										
Betula nigra	12	26	165	1					40	
Carya cordiformis								43		
Celtis occident.										
Crataegus sp.										
Fraxinus americ.							14	1		
F. nigra	20	3	3	1	4	60	4	25	1	22
F. pensylvanica										
Gleditsia triacan.										
Gymnocladus dioica										
Juglans cinerea										
Platanus occident.										
Populus deltoides										
P. tremuloides										60
Prunus serotina										
Quercus bicolor										
Q. rubra										
Robinia pseudo.										
Salix nigra										
Tilia americana										
Ulmus americana						60	110	30		
U. rubra									125	
Thuja		19	35	45	25	27				
Alnus										
Distance	11	9 1/2	20	7 1/2	19	24	16	20	16	22 1/2

Cardamine sp

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

Acorus calamus
 Alisma subcordatum
 Amorpha fruticosa
 Anemone canadensis
 Anemone virginiana
 Angelica atropurpurea
 Arisaema atrorubens
 Arisaema dracontium
 Asarum canadense
 Asclepias incarnata
 Bidens coronata
 Bidens vulgata
 Caltha palustris
 Campanula americana
 Carex alopecoidea
 Carex crinita
 Carex grayii
 Carex intumescens
 Carex lupulina
 Carex muskingumensis
 Carex normalis
 Carex tribuloides
 Carex typhina
 Carex vesicaria
 Carex vulpinoidea
 Cassia marilandica
 Cephalanthus occidentalis
 Chaeiophyllum procumbens
 Chelone glabra
 Cicutula maculata
 Clematis virginiana
 Cornus obliqua

Cornus stolonifera
 Cryptotaenia canadensis
 Echinocystis lobata
 Ellisia nyctelea
 Elymus virginicus
 Epilobium palustris
 Galium aparine
 Galium concinnum
 Galium obtusum
 Galium tinctorium
 Geranium maculatum
 Geum canadense
 Glyceria nervata
 Helenium autumnale
 Hypericum pyramidatum
 Ilex verticillata
 Impatiens capensis
 Iris virginica
 Juncus tenuis
 Laportea canadensis
 Leersia oryzoides
 Lippia lanceolata
 Lobelia cardinalis
 Lycopodium americana
 Lycopodium uniflorum
 Lysimachia ciliata
 Menispermum canadense
 Mertensia virginica
 Mimulus ringens
 Muhlenbergia sp.
 Napaea dioica
 Onoclea sensibilis

Osmorhiza longistylis
 Osmunda regalis
 Parthenocissus inserta
 Phlox divaricata
 Physostegia virginiana
 Poa palustris
 Polygonatum canaliculatum
 Polygonum sagittatum
 Ranunculus abortivus
 Ranunculus septentrionalis
 Rhus radicans
 Rorippa islandica
 Rudbeckia laciniata
 Rumex verticillatus
 Salix amygdaloides
 Salix longifolia
 Sambucus canadensis
 Sanicula gregaria
 Silphium perfoliatum
 Sium suave
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Stachys palustris
 Teucrium canadense
 Thalictrum dasycarpum
 Thalictrum dioicum
 Tovarva virginiana
 Viburnum lentago
 Viola cucullata
 Vitis riparia
 Xanthoxylum americanum

Additional species:

Aralia nudicaulis
Carex alpina
Rubus cuneifolius
Cystopteris
Mertensia borealis
Urtica dioica
Ranunculus canadensis
Ribes americanum

Solidago latifolia
 Present
 not in quad.

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

2
Acorus calamus
Alisma subcordatum
Amorpha fruticosa
Anemone canadensis
Anemone virginiana
Angelica atropurpurea
Arisaema atrorubens
Arisaema dracontium
Asarum canadense
Asclepias incarnata
Bidens coronata
Bidens vulgata
Caltha palustris
Campanula americana
Carex alopecoidea
Carex crinita
Carex grayii
Carex intumescens
Carex lupulina
Carex muskingumensis
Carex normalis
Carex tribuloides
Carex typhina
Carex vesicaria
Carex vulpinoidea
Cassia marilandica
Cephalanthus occidentalis
Chaeiophyllum procumbens
Chelone glabra
Cicuta maculata
Clematis virginiana
Cornus obliqua

Cornus stolonifera
Cryptotaenia canadensis
Echinocystis lobata
Ellisia nyctelea
Elymus virginicus
Epilobium palustris
Galium aparine
Galium concinnum
Galium obtusum
Galium tinctorium
Geranium maculatum
Geum canadense
Glyceria nervata
Helenium autumnale
Hypericum pyramidatum
Ilex verticillata
Impatiens capensis
Iris virginica
Juncus tenuis
Laportea canadensis
Leersia oryzoides
Lippia lanceolata
Lobelia cardinalis
Lycopus americana
Lycopus uniflorus
Lysimachia ciliata
Menispermum canadense
Mertensia virginica
Mimulus ringens
Muhlenbergia sp.
Napaea dioica
Onoclea sensibilis

Osmorhiza longistylis
Osmunda regalis
Parthenocissus inserta
Phlox divaricata
Physostegia virginiana
Poa palustris
Polygonatum canaliculatum
Polygonum sagittatum
Ranunculus arbortivus
Ranunculus septentrionalis
Rhus radicans
Rorippa islandica
Rudbeckia laciniata
Rumex verticillatus
Salix amygdaloides
Salix longifolia
Sambucus canadensis
Sanicula gregaria
Silphium perfoliatum
Sium suave
Smilax ecirrhata
Smilax herbacea
Smilax hispida
Stachys palustris
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum
Tovara virginiana
Viburnum lentago
Viola cucullata
Vitis riparia
Xanthoxylum americanum

Additional species:

Smilacina stellata
Cuscuta - altissima
Mullein diphyllos

Rubus leucocory
Solidago nemoralis
Aster macrophyllus
Premna alba
tuta

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 40 32
Quadrat No. 40

3

Acorus calamus
Alisma subcordatum
Amorpha fruticosa
Anemone canadensis
Anemone virginiana
Angelica atropurpurea
Arisaema atrorubens
Arisaema dracontium
Asarum canadense
Asclepias incarnata
Bidens coronata
Bidens vulgata
Caltha palustris
Campanula americana
Carex alopecoidea
Carex crinita
Carex grayii
Carex intumescens
Carex lupulina
Carex muskingumensis
Carex normalis
Carex tribuloides
Carex typhina
Carex vesicaria
Carex vulpinoidea
Cassia marilandica
Cephalanthus occidentalis
Chaeiophyllum procumbens
Chelone glabra
Cicuta maculata
Clematis virginiana
Cornus obliqua

Cornus stolonifera
Cryptotaenia canadensis
Echinocystis lobata
Ellisia nyctelea
Elymus virginicus
Epilobium palustris
Galium aparine
Galium concinnum
Galium obtusum
Galium tinctorium
Geranium maculatum
Geum canadense
Glyceria nervata
Helenium autumnale
Hypericum pyramidatum
Ilex verticillata
Impatiens capensis
Iris virginica
Juncus tenuis
Laportea canadensis
Leersia oryzoides
Lippia lanceolata
Lobelia cardinalis
Lycopus americana
Lycopus uniflorus
Lysimachia ciliata
Menispermum canadense
Mertensia virginica
Mimulus ringens
Muhlenbergia sp.
Napaea dioica
Onoclea sensibilis

clayton
Osmorhiza longistylis
Osmunda regalis
Parthenocissus inserta
Phlox divaricata
Physostegia virginiana
Poa palustris
Polygonatum canaliculatum
Polygonum sagittatum
Ranunculus arbortivus
Ranunculus septentrionalis
Rhus radicans
Rorippa islandica
Rudbeckia laciniata
Rumex verticillatus
Salix amygdaloides
Salix longifolia
Sambucus canadensis
Sanicula gregaria
Silphium perfoliatum
Sium suave
Smilax ecirrhata
Smilax herbacea
Smilax hispida
Stachys palustris
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum
Tovara virginiana
Viburnum lentago
Viola cucullata
Vitis riparia
Xanthoxylum americanum

Additional species:

Prenanthes alba
Antella diphylla
Circea latifolia
Cystopteris sp.

Polygonatum pubescens
Osmunda claytona (P)

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

4

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
✓Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus arbortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	✓Impatiens capensis	✓Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

Ribes amer. ✓
Solidago latifolia
Heuchera can.
Polygonatum pub.
Cystopteris sp.
Athyrium ang.
Rubus den.

HERB FREQUENCY

(5)

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

Acorus calamus
 Alisma subcordatum
 Amorpha fruticosa
 Anemone canadensis
 Anemone virginiana
 Angelica atropurpurea
 Arisaema atropurpureum
 Arisaema dracontium
 Asarum canadense
 Asclepias incarnata
 Bidens coronata
 Bidens vulgata
 Caltha palustris
 Campanula americana
 Carex alopecoidea
 Carex crinita
 Carex grayii
 Carex intumescens
 Carex lupulina
 Carex muskingumensis
 Carex normalis
 Carex tribuloides
 Carex typhina
 Carex vesicaria
 Carex vulpinoidea
 Cassia marilandica
 Cephalanthus occidentalis
 Chaeiophyllum procumbens
 Chelone glabra
 Cicutula maculata
 Clematis virginiana
 Cornus obliqua

Cornus stolonifera
 Cryptotaenia canadensis
 Echinocystis lobata
 Ellisia nyctelea
 Elymus virginicus
 Epilobium palustris
 Galium aparine
 Galium concinnum
 Galium obtusum
 Galium tinctorium
 Geranium maculatum
 Geum canadense
 Glyceria nervata
 Helenium autumnale
 Hypericum pyramidatum
 Ilex verticillata
 Impatiens capensis
 Iris virginica
 Juncus tenuis
 Laportea canadensis
 Leersia oryzoides
 Lippia lanceolata
 Lobelia cardinalis
 Lycopodium americana
 Lycopodium uniflorum
 Lysimachia ciliata
 Menispermum canadense
 Mertensia virginica
 Mimulus ringens
 Muhlenbergia sp.
 Napaea dioica
 Onoclea sensibilis

Osmorhiza longistylis
 Osmunda regalis
 Parthenocissus inserta
 Phlox divaricata
 Physostegia virginiana
 Poa palustris
 Polygonatum canaliculatum
 Polygonum sagittatum
 Ranunculus abortivus
 Ranunculus septentrionalis
 Rhus radicans
 Rorippa islandica
 Rudbeckia laciniata
 Rumex verticillatus
 Salix amygdaloides
 Salix longifolia
 Sambucus canadensis
 Sanicula gregaria
 Silphium perfoliatum
 Sium suave
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Stachys palustris
 Teucrium canadense
 Thalictrum dasycarpum
 Thalictrum dioicum
 Tovarva virginiana
 Viburnum lentago
 Viola cucullata
 Vitis riparia
 Xanthoxylum americanum

Additional species:

Cucumis sp. Eriogonum sp.

Rubus sp.

Lactuca spicata

Cypripedium sp.

Dioscorea spiculosa

Viola cucullata
 grand
 sp.
 clintonia
 P

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No.
Quadrat No.40
40

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

Ribes sp.

Astragalus angustifolius
Prenanthes alba

Clintonia borealis

Osmunda cinnamomea

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 40-32
Quadrat No. 40

4
Acorus calamus
Alisma subcordatum
Amorpha fruticosa
Anemone canadensis
Anemone virginiana
Angelica atropurpurea
Arisaema atrorubens
Arisaema dracontium
Asarum canadense
Asclepias incarnata
Bidens coronata
Bidens vulgata
Caltha palustris
Campanula americana
Carex alopecoidea
Carex crinita
Carex grayii
Carex intumescens
Carex lupulina
Carex muskingumensis
Carex normalis
Carex tribuloides
Carex typhina
Carex vesicaria
Carex vulpinoidea
Cassia marilandica
Cephalanthus occidentalis
Chaeiophyllum procumbens
Chelone glabra
Cicuta maculata
Clematis virginiana
Cornus obliqua

Cornus stolonifera
Cryptotaenia canadensis
Echinocystis lobata
Ellisia nyctelea
Elymus virginicus
Epilobium palustris
Galium aparine
Galium concinnum
Galium obtusum
Galium tinctorium
Geranium maculatum
Geum canadense
Glyceria nervata
Helenium autumnale
Hypericum pyramidatum
Ilex verticillata
Impatiens capensis
Iris virginica
Juncus tenuis
Laportea canadensis
Leersia oryzoides
Lippia lanceolata
Lobelia cardinalis
Lycopus americana
Lycopus uniflorus
Lysimachia ciliata
Menispermum canadense
Mertensia virginica
Mimulus ringens
Muhlenbergia sp.
Napaea dioica
Onoclea sensibilis

Osmorhiza longistylis
Osunda regalis
Parthenocissus inserta
Phlox divaricata
Physostegia virginiana
Poa palustris
Polygonatum canaliculatum
Polygonum sagittatum
Ranunculus abortivus
Ranunculus septentrionalis
Rhus radicans
Rorippa islandica
Rudbeckia laciniata
Rumex verticillatus
Salix amygdaloides
Salix longifolia
Sambucus canadensis
Sanicula gregaria
Silphium perfoliatum
Sium suave
Smilax ecirrhata
Smilax herbacea
Smilax hispida
Stachys palustris
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum
Tovara virginiana
Viburnum lentago
Viola cucullata
Vitis riparia
Xanthoxylum americanum

Additional species:

Rubus sp
Rubus lewberry

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

2
Acorus calamus
Alisma subcordatum
Amorpha fruticosa
Anemone canadensis
Anemone virginiana
Angelica atropurpurea
Arisaema atrorubens
Arisaema dracontium
Asarum canadense
Asclepias incarnata
Bidens coronata
Bidens vulgata
Caltha palustris
Campanula americana
Carex alopecoidea
Carex crinita
Carex grayii
Carex intumescens
Carex lupulina
Carex muskingumensis
Carex normalis
Carex tribuloides
Carex typhina
Carex vesicaria
Carex vulpinoidea
Cassia marilandica
Cephalanthus occidentalis
Chaeiophyllum procumbens
Chelone glabra
Cicuta maculata
Clematis virginiana
Cornus obliqua

Cornus stolonifera
Cryptotaenia canadensis
Echinocystis lobata
Ellisia nyctelea
Elymus virginicus
Epilobium palustris
Galium aparine
Galium concinnum
Galium obtusum
Galium tinctorium
Geranium maculatum
Geum canadense
Glyceria nervata
Helenium autumnale
Hypericum pyramidatum
Ilex verticillata
Impatiens capensis
Iris virginica
Juncus tenuis
Laportea canadensis
Leersia oryzoides
Lippia lanceolata
Lobelia cardinalis
Lycopus americana
Lycopus uniflorus
Lysimachia ciliata
Menispermum canadense
Mertensia virginica
Mimulus ringens
Muhlenbergia sp.
Napaea dioica
Onoclea sensibilis

Osmorhiza longistylis
Osmunda regalis
Parthenocissus inserta
Phlox divaricata
Physostegia virginiana
Poa palustris
Polygonatum canaliculatum
Polygonum sagittatum
Ranunculus arbortivus
Ranunculus septentrionalis
Rhus radicans
Rorippa islandica
Rudbeckia laciniata
Rumex verticillatus
Salix amygdaloides
Salix longifolia
Sambucus canadensis
Sanicula gregaria
Silphium perfoliatum
Sium suave
Smilax ecirrhata
Smilax herbacea
Smilax hispida
Stachys palustris
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum
Tovara virginiana
Viburnum lentago
Viola cucullata
Vitis riparia
Xanthoxylum americanum

Additional species:

Cassia palustris
Symphylocarpus f.
Rhus glabra

Parthenocissus vitacea
Aralia nudicaulis
Mitella diphylla
Mianthemum can.
Viola cucullata

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No.
Quadrat No.4032
40

9
 Acorus calamus
 Alisma subcordatum
 Amorpha fruticosa
 Anemone canadensis
 Anemone virginiana
 Angelica atropurpurea
 Arisaema atrorubens
 Arisaema dracontium
 Asarum canadense
 Asclepias incarnata
 Bidens coronata
 Bidens vulgata
 Caltha palustris
 Campanula americana
 Carex alopecoidea
 Carex crinita
 Carex grayii
 Carex intumescens
 Carex lupulina
 Carex muskingumensis
 Carex normalis
 Carex tribuloides
 Carex typhina
 Carex vesicaria
 Carex vulpinoidea
 Cassia marilandica
 Cephalanthus occidentalis
 Chaeiophyllum procumbens
 Chelone glabra
 Cicuta maculata
 Clematis virginiana
 Cornus obliqua

Cornus stolonifera
 Cryptotaenia canadensis
 Echinocystis lobata
 Ellisia nyctelea
 Elymus virginicus
 Epilobium palustris
 Galium aparine
 Galium concinnum
 Galium obtusum
 Galium tinctorium
 Geranium maculatum
 Geum canadense
 Glyceria nervata
 Helenium autumnale
 Hypericum pyramidatum
 Ilex verticillata
 Impatiens capensis
 Iris virginica
 Juncus tenuis
 Laportea canadensis
 Leersia oryzoides
 Lippia lanceolata
 Lobelia cardinalis
 Lycopodium americana
 Lycopodium uniflorum
 Lysimachia ciliata
 Menispermum canadense
 Mertensia virginica
 Mimulus ringens
 Muhlenbergia sp.
 Napaea dioica
 Onoclea sensibilis

Osmorhiza longistylis
 Osmunda regalis
 Parthenocissus inserta
 Phlox divaricata
 Physostegia virginiana
 Poa palustris
 Polygonatum canaliculatum
 Polygonum sagittatum
 Ranunculus abortivus
 Ranunculus septentrionalis
 Rhus radicans
 Rorippa islandica
 Rudbeckia laciniata
 Rumex verticillatus
 Salix amygdaloides
 Salix longifolia
 Sambucus canadensis
 Sanicula gregaria
 Silphium perfoliatum
 Sium suave
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Stachys palustris
 Teucrium canadense
 Thalictrum dasycarpum
 Thalictrum dioicum
 Tovarva virginiana
 Viburnum lentago
 Viola cucullata
 Vitis riparia
 Xanthoxylum americanum

Additional species:

pilos sp. americanum
 Nuttallia nuda nuda
 Viola sp.

3614

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

10

Acorus calamus
 Alisma subcordatum
 Amorpha fruticosa
 Anemone canadensis
 Anemone virginiana
 Angelica atropurpurea
 Arisaema atrorubens
 Arisaema dracontium
 Asarum canadense
 Asclepias incarnata
 Bidens coronata
 Bidens vulgata
 Caltha palustris
 Campanula americana
 Carex alopecoidea
 Carex crinita
 Carex grayii
 Carex intumescens
 Carex lupulina
 Carex muskingumensis
 Carex normalis
 Carex tribuloides
 Carex typhina
 Carex vesicaria
 Carex vulpinoidea
 Cassia marilandica
 Cephalanthus occidentalis
 Chaeiophyllum procumbens
 Chelone glabra
 Cicutula maculata
 Clematis virginiana
 Cornus obliqua

Cornus stolonifera
 Cryptotaenia canadensis
 Echinocystis lobata
 Ellisia nyctelea
 Elymus virginicus
 Epilobium palustris
 Galium aparine
 Galium concinnum
 Galium obtusum
 Galium tinctorium
 Geranium maculatum
 Geum canadense
 Glyceria nervata
 Helenium autumnale
 Hypericum pyramidatum
 Ilex verticillata
 ✓ Impatiens capensis
 Iris virginica
 Juncus tenuis
 Laportea canadensis
 Leersia oryzoides
 Lippia lanceolata
 Lobelia cardinalis
 Lycopodium americana
 Lycopodium uniflorum
 Lysimachia ciliata
 Menispermum canadense
 Mertensia virginica
 Mimulus ringens
 Muhlenbergia sp.
 Napaea dioica
 Onoclea sensibilis

Osmorhiza longistylis
 Osmunda regalis
 Parthenocissus inserta
 Phlox divaricata
 Physostegia virginiana
 Poa palustris
 Polygonatum canaliculatum
 Polygonum sagittatum
 ✓ Ranunculus abortivus
 Ranunculus septentrionalis
 Rhus radicans
 Rorippa islandica
 Rudbeckia laciniata
 Rumex verticillatus
 Salix amygdaloides
 Salix longifolia
 Sambucus canadensis
 Sanicula gregaria
 Silphium perfoliatum
 Sium suave
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Stachys palustris
 Teucrium canadense
 Thalictrum dasycarpum
 Thalictrum dioicum
 Tovarva virginiana
 Viburnum lentago
 Viola cucullata
 Vitis riparia
 Xanthoxylum americanum

Additional species:

Saxifraga pennsylvanica
Senecio aureus
Verba sp
Solanum sp
Delcamara
Thunberg sp

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
 Quadrat No. 40

Acorus calamus
 Alisma subcordatum
 Amorpha fruticosa
 Anemone canadensis
 Anemone virginiana
 Angelica atropurpurea
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 Carex muskingumensis
 Carex normalis
 Carex tribuloides
 Carex typhina
 Carex vesicaria
 Carex vulpinoidea
 Cassia marilandica
 Cephalanthus occidentalis
 Chaeiophyllum procumbens
 Chelone glabra
 Cicuta maculata
 Clematis virginiana
 Cornus obliqua

Cornus stolonifera
 Cryptotaenia canadensis
 Echinocystis lobata
 Ellisia nyctelea
 Elymus virginicus
 Epilobium palustris
 Galium aparine
 Galium concinnum
 Galium obtusum
 Galium tinctorium
 Geranium maculatum
 Geum canadense
 Glyceria nervata
 Helenium autumnale
 Hypericum pyramidatum
 Ilex verticillata
 Impatiens capensis
 Iris virginica
 Juncus tenuis
 Laportea canadensis
 Leersia oryzoides
 Lippia lanceolata
 Lobelia cardinalis
 Lycopodium americana
 Lycopodium uniflorum
 Lysimachia ciliata
 Menispermum canadense
 Mertensia virginica
 Mimulus ringens
 Muhlenbergia sp.
 Napaea dioica
 Onoclea sensibilis

Osmorhiza longistylis
 Osmunda regalis
 Parthenocissus inserta
 Phlox divaricata
 Physostegia virginiana
 Poa palustris
 Polygonatum canaliculatum
 Polygonum sagittatum
 Ranunculus abortivus
 Ranunculus septentrionalis
 Rhus radicans
 Rorippa islandica
 Rudbeckia laciniata
 Rumex verticillatus
 Salix amygdaloides
 Salix longifolia
 Sambucus canadensis
 Sanicula gregaria
 Silphium perfoliatum
 Sium suave
 Smilax ecirrhata
 Smilax herbacea
 Smilax hispida
 Stachys palustris
 Teucrium canadense
 Thalictrum dasycarpum
 Thalictrum dioicum
 Tovara virginiana
 Viburnum lentago
 Viola cucullata
 Vitis riparia
 Xanthoxylum americanum

Additional species:

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No. 4032
Quadrat No. 40

Acorus calamus
Alisma subcordatum
Amorpha fruticosa
Anemone canadensis
Anemone virginiana
Angelica atropurpurea
Arisaema atrorubens
Arisaema dracontium
Asarum canadense
Asclepias incarnata
Bidens coronata
Bidens vulgata
Caltha palustris
Campanula americana
Carex alopecoidea
Carex crinita
Carex grayii
Carex intumescens
Carex lupulina
Carex muskingumensis
Carex normalis
Carex tribuloides
Carex typhina
Carex vesicaria
Carex vulpinoidea
Cassia marilandica
Cephalanthus occidentalis
Chaeiophyllum procumbens
Chelone glabra
Cicuta maculata
Clematis virginiana
Cornus obliqua

Cornus stolonifera
Cryptotaenia canadensis
Echinocystis lobata
Ellisia nyctelea
Elymus virginicus
Epilobium palustris
Galium aparine
Galium concinnum
Galium obtusum
Galium tinctorium
Geranium maculatum
Geum canadense
Glyceria nervata
Helenium autumnale
Hypericum pyramidatum
Ilex verticillata
Impatiens capensis
Iris virginica
Juncus tenuis
Laportea canadensis
Leersia oryzoides
Lippia lanceolata
Lobelia cardinalis
Lycopus americana
Lycopus uniflorus
Lysimachia ciliata
Menispermum canadense
Mertensia virginica
Mimulus ringens
Muhlenbergia sp.
Napaea dioica
Onoclea sensibilis

Osmorhiza longistylis
Osmunda regalis
Parthenocissus inserta
Phlox divaricata
Physostegia virginiana
Poa palustris
Polygonatum canaliculatum
Polygonum sagittatum
Ranunculus arbortivus
Ranunculus septentrionalis
Rhus radicans
Rorippa islandica
Rudbeckia laciniata
Rumex verticillatus
Salix amygdaloides
Salix longifolia
Sambucus canadensis
Sanicula gregaria
Silphium perfoliatum
Sium suave
Smilax ecirrhata
Smilax herbacea
Smilax hispida
Stachys palustris
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum
Tovara virginiana
Viburnum lentago
Viola cucullata
Vitis riparia
Xanthoxylum americanum

Additional species:

HERB FREQUENCY

FLOOD-PLAIN HARDWOODS

Stand No.
Quadrat No.40 37
40

Acorus calamus
Alisma subcordatum
Amorpha fruticosa
Anemone canadensis
Anemone virginiana
Angelica atropurpurea
Arisaema atrorubens
Arisaema dracontium
Asarum canadense
Asclepias incarnata
Bidens coronata
Bidens vulgata
Caltha palustris
Campanula americana
Carex alopecoidea
Carex crinita
Carex grayii
Carex intumescens
Carex lupulina
Carex muskingumensis
Carex normalis
Carex tribuloides
Carex typhina
Carex vesicaria
Carex vulpinoidea
Cassia marilandica
Cephalanthus occidentalis
Chaeiophyllum procumbens
Chelone glabra
Cicuta maculata
Clematis virginiana
Cornus obliqua

Additional species:

Cornus stolonifera
Cryptotaenia canadensis
Echinocystis lobata
Ellisia nyctelea
Elymus virginicus
Epilobium palustris
Galium aparine
Galium concinnum
Galium obtusum
Galium tinctorium
Geranium maculatum
Geum canadense
Glyceria nervata
Helenium autumnale
Hypericum pyramidatum
Ilex verticillata
Impatiens capensis
Iris virginica
Juncus tenuis
Laportea canadensis
Leersia oryzoides
Lippia lanceolata
Lobelia cardinalis
Lycopus americana
Lycopus uniflorus
Lysimachia ciliata
Menispermum canadense
Mertensia virginica
Mimulus ringens
Muhlenbergia sp.
Napaea dioica
Onoclea sensibilis

Osmorhiza longistylis
Osmunda regalis
Parthenocissus inserta
Phlox divaricata
Physostegia virginiana
Poa palustris
Polygonatum canaliculatum
Polygonum sagittatum
Ranunculus arbortivus
Ranunculus septentrionalis
Rhus radicans
Rorippa islandica
Rudbeckia laciniata
Rumex verticillatus
Salix amygdaloides
Salix longifolia
Sambucus canadensis
Sanicula gregaria
Silphium perfoliatum
Sium suave
Smilax ecirrhata
Smilax herbacea
Smilax hispida
Stachys palustris
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum
Tovara virginiana
Viburnum lentago
Viola cucullata
Vitis riparia
Xanthoxylum americanum

TABULATION FORM

Univ. of Wisconsin

Stand No. 3614

[illegible]

Data Form No. 23
TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3614

[illegible]

Stand No. 3614

[illegible]

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	10 96
Prenanthes alba	✓		✓	✓			✓															3
Prunella vulgaris																						
Pteretis pensylvanica																						
Pteridium aquilinum																						
Pyrola asarifolia																						
Pyrola elliptica																						
Pyrola minor																						
Pyrola rotundifolia																						
Pyrola secunda																						
Pyrola virens																						
Ranunculus abortivus	✓										✓											1
Ranunculus recurvatus																						
Ranunculus septentrional	✓																					
Rhus radicans	✓																					
Rhus typhina																						
Ribes americanum	✓	✓			✓					✓												3
Ribes cynosbati																						
Ribes lacustre																						
Ribes triste																						
Rosa sp.																						
Rubus idaeus																						
Rubus parviflorus																						
Rubus hispidus																						
Rubus - blackberry																						
Rubus - dewberry	✓	✓	✓		✓			✓	✓													5
Rubus - raspberry	✓																					
Salix sp.	✓																					
Sambucus canadensis	✓				✓																	1
Sambucus pubens																						
Sanguinaria canadensis																						
Sanicula gregaria	✓																					
Sanicula marilandica																						
Schizachne purpurascens																						
Scutellaria lateriflora																						
Senecio aureus	✓										✓											1
Shepherdia canadensis																						
Smilacina racemosa	✓																					
Smilacina stellata	✓		✓																			1
Smilax ecirrhata																						
Smilax herbacea																						
Smilax hispida																						
Solidago canadensis ?	✓																					
Solidago flexicaulis	✓				✓																	1
Solidago ulmifolia																						
Spiraea alba																						
Stellaria longifolia																						
Streptopus amplexifolius																						
Streptopus roseus																						
Symphoricarpos albus																						
Taxus canadensis																						
Thalictrum dioicum																						

Data Form No. 23
TABULATION FORM

Plant Ecology Research
NORTHERN PINE-HARDWOODS

Univ. of Wisconsin
Stand No. 3614

[illegible]

TABULATION FORM

NORTHERN LOWLANDS

STAND NO. 3614

[illegible]

TABULATION FORM

NORTHERN LOWLANDS

STAND NO. 3614

[illegible]

TABULATION FORM

NORTHERN LOWLANDS:

STAND NO. 3614

[illegible]

PRESENCE LIST

SOUTHERN FLOODPLAIN FOREST

Stand No. 40 ³²
40

Acer negundo
 ✓ Acer rubrum
 Acer saccharinum
 Acer saccharum
 ✓ Betula lutea
 Betula nigra
 ✓ Carya cordiformis
 Carya ovata
 Celtis occidentalis
 Crataegus
 ✓ Fraxinus americana
 ✓ Fraxinus nigra

Betula papyrifera

Acorus calamus
 ✓ Actaea pachypoda *sp*
 Adiantum pedatum
 Agrimonia gryposepala
 Alisma plantago-aquatica
 Allium canadense
 Alnus incana *alnus sp.*
 Alnus rugosa
 Ambrosia trifida
 Amorpha fruticosa
 ✓ Amphicarpa bracteata
 Anemone canadensis
 ✓ Anemone quinquefolia
 Anemone virginiana
 Anemonella thalictroides
 Apios tuberosa
 ✓ Aralia nudicaulis
 ✓ Aralia racemosa
 Arenaria lateriflora
 ✓ Arisaema atrorubens
 Arisaema dracontium
 Asarum canadense
 Asclepias incarnata
 Aster lateriflorus
 Aster paniculatus
 ✓ Athyrium angustum
 Aureolaria grandiflora
 Bidens coronata
 Bidens vulgata
 Botrychium virginianum
 Brachyelytrum erectum
 Bromus purgans
 ✓ Caltha palustris
 Campanula americana
 Carex grayii
 Cassia marilandica
 Caulophyllum thalictroides
 Cephalanthus occidentalis
 Cheirophyllum procumbens
 Chelone glabra
 ✓ Cicutula maculata

Fraxinus pennsylvanica
 Fraxinus lanceolata
 Fraxinus quadrangulata
 Gleditsia triacanthos
 Gymnocladus dioica
 Juglans cinerea
 Juglans nigra
 Ostrya virginiana
 Platanus occidentalis
 Populus deltoides
 ✓ Populus tremuloides
 Prunus serotina

Thuja

HERBS & SHRUBS

✓ Circaea latifolia
 ✓ Cirsium altissimum
 Clematis virginiana
 Comandra umbellata
 Convolvulus sepium
 ✓ Cornus alternifolia
 ✓ Cornus femina
 Cornus obliqua
 ✓ Cornus rugosa
 Cornus stolonifera
 Corylus americana
 Cryptotaenia canadensis
 Cuscuta sp.
 Dentaria laciniata
 Desmodium glutinosum
 Dicentra cucullaria
 Dioscorea villosa
 Dryopteris thelypteris
 Echinocystis lobata
 Ellisia nyctelea
 Elymus virginicus
 Epilobium palustre
 Erythronium albidum
 Eupatorium purpureum
 Eupatorium rugosum
 ✓ Fragaria virginiana
 ✓ Galium aparine
 Galium concinnum
 Galium obtusum
 ✓ Galium triflorum
 ✓ Geranium maculatum
 ✓ Geum canadense
 Geum strictum
 Glyceria nervata
 Helianthus strumosus
 Hepatica acutiloba
 Hydrophyllum appendiculatum
 Hydrophyllum virginianum
 Hypericum ascyron
 Hystrix patula
 Ilex verticillata

✓ Prunus virginiana
 Quercus alba
 ✓ Quercus bicolor
 Quercus ellipsoidalis
 ✓ Quercus macrocarpa
 Quercus rubra
 Robinia pseudoacacia
 Salix nigra
 ✓ Tilia americana
 ✓ Ulmus americana
 ✓ Ulmus fulva
 ✓ Impatiens biflora
 Iris virginica
 Juncus tenuis
 ✓ Lactuca spicata
 ✓ Laportea canadensis
 Leersia oryzoides
 Lilium philadelphicum
 Lippia lanceolata
 Lobelia cardinalis
 Lonicera prolifera
 Lycopodium americana
 Lycopodium uniflorum
 Menispermum canadense
 Muhlenbergia sp.
 Napaea dioica
 ✓ Onoclea sensibilis
 ✓ Osmorhiza claytoni
 Osmorhiza longistylis
 Osmunda regalis
 Parietaria pennsylvanica
 ✓ Parthenocissus vitacea
 Phlox divaricata
 Phryma leptostachya
 Physocarpus opulifolius
 Physostegia virginiana
 Pilea pumila
 Podophyllum peltatum
 Polemonium reptans
 ✓ Polygonatum commutatum *pubescens*
 Polygonum sagittatum
 Polygonum virginianum
 ✓ Prenanthes alba
 Ranunculus abortivus
 Ranunculus recurvatus
 ✓ Ranunculus septentrionalis
 ✓ Rhus radicans
 ✓ Ribes americanum
 Ribes cynosbati
 Ribes missouriense
 Rorippa palustris
 Rubus allegheniensis

Rudbeckia laciniata
Rumex verticillatus
✓Sambucus canadensis
Sanguinaria canadensis
✓Sanicula gregaria
Sanicula marilandica
Scutellaria lateriflora
✓Senecio aureus
Silphium perfoliatum
✓Sium suave
✓Smilacina racemosa
✓Smilacina stellata

Smilax ecirrhata
Smilax herbacea
Smilax hispida
Solidago gigantea
Solidago ulmifolia
Stachys palustris
Staphylea trifolia
✓Steironema ciliata
Stellaria longifolia
Teucrium canadense
Thalictrum dasycarpum
Thalictrum dioicum

Trillium flexipes
✓Trillium grandiflorum
Trillium recurvatum
Triosteum perfoliatum
✓Uvularia grandiflora
Veronicastrum virginianum
Viburnum lentago
✓Viola cucullata
Viola pubescens
Vitis riparia
Zanthoxylum americanum

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Additional species:

- ✓Skunk cabbage *Symplocarpus foetidus*
- ✓Raspberry
- ✓Solidago sp. (canadensis)
- ✓Salix nigra
- ✓Urtica vulgaris
- ✓Eugenon pulchellus
- ✓Saxifraga sp. pennsylvanica
- ✓Viola canadensis
- ✓Mitella diphylla
- ✓Viburn acerifolium
- ✓Maianthemum canadensis
- ✓Aster macrophyllus
- ✓Actaea rubra
- ~~Rubus struthium~~
- ✓Cardamine sp.
- ✓Circea alpina
- ✓Trentalis borealis
- ✓Mitella nuda
- ✓Solidago latifolia
- ✓Mitella diphylla
- ✓Osmunda Claytonii
- ✓Clintonia borealis
- ✓Osmunda cinnamomea
- Senecio aureus