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Site 1519: Rock County, Township 3N, Range 10E, Section 21. 1956-08

[s.l.]: [s.n.], 1956-08

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 1519

Name:

County: Rock

Date: Aug. 1956

Size of Stand: 20 acres

Forest Type: *P. velutina* - *C. ovata*

Topography: Crest of st. hill

Locality: Magnolia

T: 3 N

R: 10 E

Sec: NE of SE 21

Observers: Rogers

Size of Area Sampled: 10 acres

Soil Type:

Slope: 0°

Directions: S.

Condition of Stand: Clear cut c. 8 yrs.

Mostly stump sprouts

Open Grown Trees: None

% Canopy: 50

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	5.5								70.6
A ₂									
B									

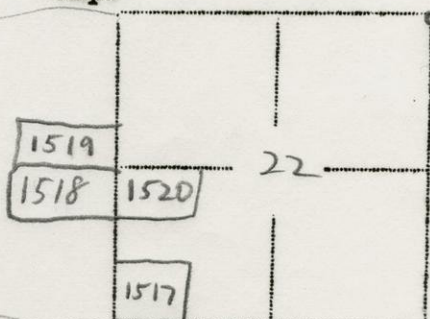
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/4 - nonexistent
A ₁	1-1 1/2 silt loam
A ₂	
B	

Parent Material:

Map:



Magnolia

Hiway 13

1519 Stand #

Clear

Stand #

1519

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 21

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>										
<i>C. ovata</i>	15	18+1	2	2	13+1 13+2	2		2 15 17+1	1	15 2
<i>Celtis occ</i>										
<i>Crataegus sp.</i>										
<i>Fagus grand</i>										
<i>Fraxinus am</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>										
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>	1	30 29 23		1 35 26 +1	2	1	3	2	3	2 1
<i>Quercus alba</i>			15+1							
<i>Q. ellipsoid</i>	21+1 21 19+2 18+4	13 12 20+1	15 12 14 17+5 15 25	13+1 35+1 17 28 25	14 14+1	1 14 13+1 25+12	12 14 13 12+3 17+3 13 13	13+3 14+2 15 12+3	14 15 13 21+3 19+1	25+4 1 12 12+2 12+1
<i>Q. macrocarpa</i>										
<i>Q. rubra</i>										
<i>Q. velutina</i>										
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>										
<i>Pyrus ioniers</i>	1	1					1		1	
	6 10 11 14	12 9 11 10	6 7 7 18	16 7 15 18	13 27 12 18	11 13 10 13	11 11 8 11	2 13 5 14	3 10 11 15	11 17 14 10
Distance	8 17 14 14	8 10 10 14	11 7 7 14	6 22 7 11	20 16 14 11	11 15 5 5	7 18 7 8	8 18 8 16	13 8 8 20	8 8 15 10

POINT RECORD TREES

SOUTHERN HARDWOODS

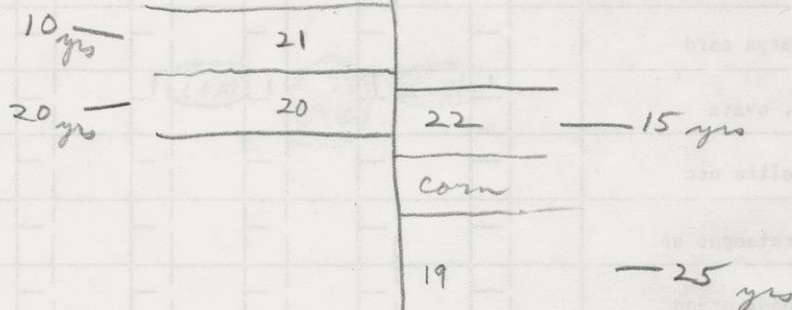
Stand No. 21

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car.</i>										
<i>Carya cord.</i>										
<i>C. ovata</i>	1	13+2	15 16+3	12+1	1		2		16+2	3
<i>Celtis occ.</i>										
<i>Crataegus sp.</i>										
<i>Fagus grand.</i>										
<i>Fraxinus am.</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>										
<i>Ostrya virg.</i>										
<i>Populus gran.</i>										
<i>P. tremul.</i>										
<i>Prunus serot.</i>	1	2	3	1	1	14+1	3	2	2	1
<i>Quercus alba</i>		16+1								20+21
<i>Q. ellipsoid</i>	17 12 18	16+31 17 24	20 20 13+1	12 20+1 27 26 15+1	12+2 12 12 15+3	2 23 13 21+1	17+5 29+1	21 15 16+1 15+2	22 23 +1 17+1 12+1	2 13+2 13+3
<i>Q. macrocarpa</i>		16+1	18 12+1	15+3	18 12	2	12	12 16 22+1 12+2	23+2	40 26 12+1
<i>Q. rubra</i>										
<i>Q. velutina</i>										
<i>Tilia amer.</i>										
<i>Ulmus amer.</i>										
<i>Ulmus fulva</i>										
<i>Pyrus ioia</i>										
	7 11 11 13	18 15 18 17	7 9 9 18	9 11 8 12	9 14 13 16	5 15 6 13	11 9 11 15	5 11 6 15	9 12 16 16	6 21 15 13
Distance	12 17 10 18	7 16 10 22	13 11 6 20	8 18 16 16	12 11 8 13	8 22 11 24	7 13 10 14	10 13 12 13	7 21 4 15	11 12 12 21

soil - silt loam

A₀ $\frac{1}{16}$ - nonexistent

A₁ $1 - 1\frac{1}{4}$ "



6800 FC

100	100
200	70
80	120
80	150
180	250
640	690

1330

Temp. soil 18.5 19°C
air 22.5 22°C

84.2%
18.7°
22.2°

$$\frac{133}{6800} = 1.96\%$$

soil water perm 50 cc

15 sec. 32.5 sec.
50 sec.

1519

AVE. B.A.

Tree	No.	No.	No.	Pts.	No.	F. %	D. %	F. %	D. %	Dom. %								
	Pts.	Tr.	Dom.	Sap.	Sap.	Sap.	Sap.	Seed	Seed	Tr.	Tr.	Trees	I.I.	C.I.	TREE	STEM		
Acerrubrum																		
A. saccharum																		
Carya cord.			(12)															Ave. Dist.
C. ovata	9	10	178	16	26	30.2	32.5	94	423	25.7	12.5	8.5	46.7	210.1	17.8	14.8		Btw'n Trees
Celtis occiden.																		12.3 ^{SAP} 11.6
Fagus grand.																		
Fraxinus amer.																		Ave. BA
F. lanceolata																		(Total
F. pennsylvani																		PA ÷ 80) ^{STEM} 26.1 17.3
Juglans cinere																		No. Trees
J. nigra																		Per acre ^{SAP} 287.9 323.7
Ostrya virgin.																		Dom. per
Populus grand.																		acre
P. tremuloides																		
Prunus serotin	3	4	(16) 152	18	32	34	40	114	399.6	8.6	5	7.3	20.9	75.2	38	25.3		7514.2
Quercus alba	2	2	(16) 36							5.7	2.5	1.7	9.9	35.6	18	18		
Q. ellipsoidal																		
Q. macrocarpa	1	1	12	4	5	7.5	6.2	20.5	20.5	2.9	1.2	.6	4.7	4.7	12	12		
Q. rubra			(160)															
Q. velutina	20	63	(160) 1711	9	11	17	13.7	46	115	57.1	78.7	81.9	217.7	544.2	27.2	17.1		
Tilia american																		
Ulmus american				1	1	1.9	1.2	4.6	21.2									
U. rubra																		
Pyrus idensis				5	5	9.4	6.2	23.4	23.4									
			(121)															
	35	80	2089	53	80	100	99.8	299.5	100257	100	99.9	100	299.9	869.8				

1.51 stems/tree

+132.9

Trees except PARV. # stems trees stem/tree stems 12-22
19 15 1.27 14

	12-22	23-33	34-44	STEM (12"+)			All stems					
				1	2	3	1	2	3	4	5	6
CAR. OVATA	12			8	2		2	3	4		1	
PR. SEKT.	1	4	1	2	2		1	2	1			
P. ALBA	2			2				1	1			
P. MAC.	1			1			1					
P. VELUT.	84	14	2	36	17	10	7	22	13	12	4	5
	100	18	3	49	21	10	11	28	19	12	5	5

STEMS (TREE SIZE)	singles	mult.	trees	stems	% mult.	stem/tree
P. alba	2	0	2	2	0	1
P. mac	1	0	1	1	0	1
P. velut.	36	27	63	100	42.9	1.59
	39	27	66	103	40.9	1.56

(AT LEAST 1 TREE
STEMS TREE OR SAMPLING
SIZE)

	singles	mult.	trees	stems	% mult.	stem/tree
P. alba	0	2	2	5	100	2.5
P. mac	1	0	1	1	0	1
P. velut.	7	56	63	188	88.9	2.98
	8	58	66	194	87.9	2.94
No P. mac		58	65	193	89.2	2.97

split origin

% splits % mult.

mult.	stem	stem/tree
2	5	2.5
56	181	3.23
58	186	3.21

2 100

100

56 88.9

100

1519
CI = 870

Pyrus
idensis

Pop. trem.

Quercus alba 20 5

Q. macrocarp. 20 5

Q. velut. 45 11

Prun. serot. 130 32

Querc. alba 1 1

Pop. grand. 1 1

Carya ovata 105 26

Querc. rubra

Juglans nig.

Frax. amer.

Acer rubrum

Tilia amer.

Jug. cinerea

Ulmus amer. 4 1

Celtis occ.

Ulm. rubra

Carya cord.

Ostrya virg.

Acer sacc.

Sap.

12-
19

20-
28

29-
38

39-
50

51-
63

64-
78

79-
95

96-
113

114-
132

133-
153

154-
176

177-
201

202-
254

255-
314

315-
380

381-
452

4

1

227

63

(125)

14

4

(4)

7

2

(3)

36

10

(15)

80

80

(147)

Sap CI = 1003

147

#/acre

324

284.4

3.6

288

SOUTHERN UPLAND HARDWOODS

Summary of
Presence 15-19
+ Frequency

✓ Actaea pachypoda 5
✓ Adiantum pedatum
✓ Agrimonia gryposepala 25
✓ Amelanchier spp. 10
✓ Amphicarpa bracteata 5
✓ Anemonella thalictroides
✓ Apocynum androsaemifolium
✓ Aralia nudicaulis
A. racemosa
✓ Arenaria lateriflora
✓ Arisaema atrorubens
✓ Aster macrophyllus
✓ A. sagittifolius 35
A. shortii
✓ Athyrium filix-femina
✓ Botrychium virginianum 10
✓ Brachyelytrum erectum
✓ Carex albursina
C. convoluta
✓ C. pensylvanica 65
✓ Caulophyllum thalictroides
✓ Celastrus scandens 5
✓ Circaea quadrisulcata
✓ Cornus alternifolia
✓ C. femina 40
C. rugosa
✓ Corylus americana 35
✓ Cryptotaenia canadensis
✓ Desmodium glutinosum
D. nudiflorum
✓ Dioscorea villosa
✓ Eupatorium purpureum
E. rugosum
✓ Festuca obtusa
✓ Fragaria virginiana 35

✓ Galium aparine 10
G. circaezans
✓ G. concinnum 5
G. lanceolatum
G. triflorum
✓ Geranium maculatum 5
✓ Geum canadense 20
✓ Hackelia virginiana 5
✓ Helianthus strumosus 10
Hepatica acutiloba
✓ Hydrophyllum virginianum
Hystrix patula
Impatiens biflora
✓ Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera proliifera
Lysimachia quadrifolia
✓ Monarda fistulosa 5
✓ Osmorhiza claytoni 5
O. longistylis
Oxalis violacea
Panicum latifolium
Parietaria pensylvanica
✓ Parthenocissus vitacea 30
Phlox divaricata
✓ Phryma leptostachya 5
Podophyllum peltatum
Polemonium reptans
✓ Polygonatum canaliculatum
P. pubescens
Polygonum virginianum
✓ Potentilla simplex 45
Preanthes alba
✓ Prunus virginiana

Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
✓ Rhus radicans 15
✓ R. cynosbati 35
R. missouriense
✓ Rosa sp. 25
✓ Rubus allegheniensis 15
✓ R. occidentalis
✓ R. strigosus 80
✓ Sambucus canadensis
Sanguinaria canadensis
✓ Sanicula gregaria 10
S. marilandica
✓ Smilacina racemosa
S. stellata
✓ Smilax ecirrhata 15
S. herbacea
Solidago canadensis
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. lentago
V. rafinesquianum
✓ Viola cucullata 55
V. pubescens
Vitris aestivalis
✓ V. riparia 20
Zanthoxylum americanum

Additional species:

16
40
56

- Achillea millefolium 5
- Arctium minus
- Ambrosia - Artem. 15
- Antennaria
- Cirsium
- Aureolaria grandiflora
- Aster laterif. 20
- Botrychium multif. 10
- Erigeron pulch. 5

- Prunella vulgaris
- Poa compressa
(comp) 75
- Liatris aspera 5

- Rhus glabra 25
- Verbascum thap. 5
- Rudbeckia lac. 5
- Taraxacum 80
- Carya ovata 15
- Prunus serot 20
- Q. mac. 5
- Q. velut 5
- Ulmus am. 10

65 - 85 - 80 - 70 - 60 - 10

62.5%

Canopy 70 - 60 - 75 - 65 - 60 - 65 - 60 - 50

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

1519
3NIDE NE or SE 21
Stand No. 21
Quadrat No.

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala 6
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 2 9
A. shortii
Athyrum filix-femina
Botrychium virginianum 7
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 23478910
Caulophyllum thalictroides
Celastrus scandens 10
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina 23
C. rugosa
Corylus americana 23579
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus 7
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana 23610
Galium aparine
G. circaeazans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum 7
Gerardia grandiflora
Geum canadense 37
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 2
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa 6
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 4
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 14810
Phlox divaricata
Phryma leptostachya 3
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 267
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 4
Ribes americanum
R. cynosbati 3578
R. missouriense
Rosa sp.
Rubus allegheniensis 2710
R. occidentalis
R. strigosus 123467
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 10
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata 359
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 15678910
V. pubescens
Vitis aestivalis
V. riparia 168
Xanthoxylum americ.
Zizia aurea

Additional species:

• Prunus serot. 2478
• Andromeda 9
• Achillea millefolium 1
• Urtica americana 7
• Verbascum thapsus 7
• Quercus rubra 8
• Liatris aspera 9
• Carya ovata 17
• Ambrosia artemisiifolia 1
• Taraxacum 1234678910
• Poa com. 12345910

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 21
Quadrat No.

Page 2

Actaea pachypoda 6
Adiantum pedatum
Agrimonia gryposepala 23-7
Allium tricoccum
Amphicarpa braceata 9
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 14689
A. shortii
Athyrum filix-femina
Botrychium virginianum 9
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 2345910
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina 45678
C. rugosa
Corylus americana 510
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana 359
Galium aparine 810
G. circaezans
G. concinnum 9
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense 16
Goodyera pubescens
Habenaria bracteata
Hackelia virginica 10
Hamamelis virginiana
Helianthus strumosus 5
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum bitermum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 67
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 1346710
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 45
Ribes americanum
R. cynosbati 678
R. missouriense
Rosa sp. 24567
Rubus allegheniensis
R. occidentalis
R. strigosus 12345678910
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 10
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 12131420
V. pubescens
Vitis aestivalis
V. riparia 2
Xanthoxylum americ.
Zizia aurea

Additional species:

Carya ovata 3
Poa comp. 12345679
Ulmus acer 2
Taraxacum 2345678
Prunus 258
Anelancheris 8
Amelanchier 34

310
6
10

1519

Presence List
(Uncommon species)

SOUTHERN UPLAND HARDWOODS

Stand No. 21

Locality:

County:

Sec:

T:

R:

Date:

Observers:

Size of Stand:

Size of Area Sampled:

Condition of Stand:

Type:

Acalypha rhomboidea
Agastache scrophul.
Allium canadense
Amorpha canescens
Anaphalis margarit.
Anemone cylindrica
Arabis canadensis
A. laevigata
A. lyrata
A. perstellata
Aralia pispida
Arisaema dracont.
Asclepias ovalif.
A. exaltata
Aster azureus
A. simplex 1369
A. prenanthoides
Athyrum thelypter.
Boehmeria cylindr.
Botrychium multif. 3, 10
Bromus purgans
Cantosorus rhizop.
Carex convoluta
Ceanothus americ.
Chimaphila umbell.
Cirsium altissim.
Clematis virgin.
Clintonia boreal.
Comandra umbellata
Conopholis americ.
Corallorrhiza mac.
Corydalis semperv.
Cynoglossum offic.
Cystopteris bulbif.
Desmodium cuspidatum
D. canadense
Dicentra canad.
Diervilla lonicera
Dioscorea villosa
Dirca palustris
Elymus villosus
Epifagus virgin.

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

Physocarpus opul.
Phytolacca americana
Pilea pumila
Polymnia canad.
Polypodium vulgare
Prunella vulgaris
Pteretis pensylvanica
Pyrus coronaria
P. ioensis
Ranunculus fascicul.
R. rhomboideus
Rhus glabra 257910
R. typhina
Rubus hispidus
R. pubescens
Rudbeckia laciniata 6
Salix sp.
Sambucus pubens
Saxifraga pennsylv.
Scrophularia lan.
S. marilandica
Senecio pauperculus
Silene stellata
Solanum nigrum
Solidago speciosa
Staphylea trifolia
Streptopus roseus
Symplocarpus foet.
Taenidia integerr.
Taxus canadensis
Thalictrum dasycarp.
Thaspium aureum
Tradescantia ohio.
Uvularia sessilif.
Vaccinium myrtilloides
Veronica serpyllif.
Viburnum lentago
V. trilobum
Vicia americana
Viola conspersa
V. incognita 891012131420
Wulfenia bullii

Additional Species:

1519

CI = 870

Sap - 1003 + 1

H - 242 + 1

750

550

350

250

150

100

50

25

1

4

7

10

13

16

19

22

25

