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1514 Stand #

del

Stand # 1514

[illegible]

1514

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 15

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum									100	
Betula papy.										
Carpinus car										
Carya cord		1	1							
C. ovata	16	1 30		2	2 13 27	1	1 16 30	1	1	
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	18 (45 95)		2 15 15		50	16 20	1 (20+1) 30	2	2	2
Quercus alba		1	13 13	1 35	1 220 230	2 150		250 120 25	1 70	2
Q. ellipsoid										
Q. macrocarpa				1	1	1	1			1
Q. rubra				230 330 370						150
Q. velutina	280	1 200 160							220	140 160
Tilia amer						12	1	27	15 22	45 15 45
Ulmus amer		30	1							
Ulmus fulva										
Q. bicolor										
	1 6 16 20	9 20 7 24	13 11 5 10	10 17 13 22	7 23 34 20	12 22 16 20	7 9 7 21	13 14 7 25	10 14 27 15	3 7 12 17
Distance	21 19 14 10 11 18	11 16	2 28 7 18	6 5 19 28	18 9 21 31	18 10 15 16	11 17 14 34	11 10 18 19	28 11 8 10	15 16 11 20

26

2

45

240

230

230

24

24

14

23

15

12

16

31

176 89
257 21

Q. velut.	14" diam	100 yrs
Q. velut.	18-19"	80
Q. alba	14-15	94
Q. velut.	19	96
Q. velut.	14	94

Some black & some pin oak
 all called Q. velut. here
 No. Q. rubra

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 15

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum					19					
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata	1				13	2	1	1		50
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot		2 13	1		2	2	2		L 30	L 15
Quercus alba	12 16	30		4 25 28	2 15		3		230	65 140
Q. ellipsoid										
Q. macrocarpa			2			24	40 21 15	2	3	
Q. rubra			290 150			190				
Q. velutina	220 240	1 170 440	1 150 120 95	290 70	150	220 110 190	300	290 130 126	180 160	L 230
Tilia amer										
Ulmus amer										
Ulmus fulva										
Pyrus aucuparia								26		
	6 6 7 8	3 18 7 18	13 8 12 22	16 26 9 30	7 19 16 13	2 19 24 33	4 5 8 11	12 16 16 19	19 31 13 20	12 19 5 29
Distance	11 18 7 19	16 19 9 25	10 30 13 32	27 30 13 14	6 18 25 33	12 18 15 21	17 14 16 27	26 14 7 22	6 28 15 13	10 12 17 17

110 2

30 1

75 55

1

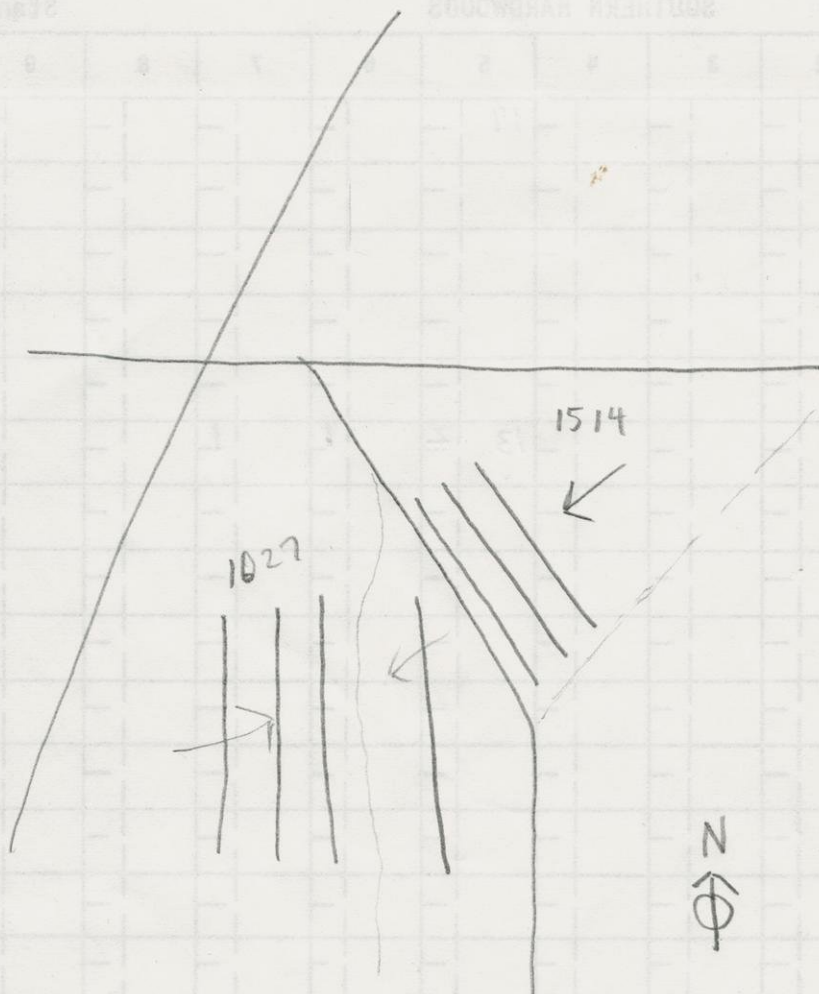
230

4 10

8 12

13 19

19 16



1514- 5 yrs & before
selectively cut.

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 15

STATION NO.	21	2	3	4	5	6	7	8	9	310
Acer rubrum										
A. saccharum	1									
Betula papy.										
Carpinus car										
Carya cord										1
C. ovata	1 55	1 75		3 24		1 95	1 13	1 50	75	55
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am	1	1		15			1			
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	85	1 35	2 131	2 29	110	40	12	1	29	1
Quercus alba	76	210	150	1 60	16	1			1 95	1 13
Q. ellipsoid	160			25						55 35
Q. macrocarpa			16	1	1	3 15	3	1 21	3 25	3
Q. rubra						45				
Q. velutina		210		220		210	15			110 1
Tilia amer										
Ulmus amer										
Ulmus fulva										
	18 12	3 10	6 12	7 8	4 10	3 23	7 10	5 12	2 5	2 7
	23 35	9 32	12 7	7 10	3 8	16 7	25 19	6 18	6 10	8 19
Distance	3 17	20 42	6 22	10 13	11 21	9 13	15 11	7 20	11 13	3 23
	16 14	8 33	28 17	18 28	14 20	12 7	11 15	9 16	21 4	32 15
	14	1	1	1	1	1	1	1	1	1

2

13
4513
55 35

2

21 12
7 21
5 12
13 15

Soil A₀ $\frac{1}{8}$ " silt loam

A₁ 2-3"

Temp. soil 22° 23° C.
Air 30° 30°

Water permeability 50 cc
5-10 sec.

Profile 21-22" diam
14-15
83
86

Stumps

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1514

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot										
6-12 15.4 12.1 413 Quercus alba 175.7	B-4 B-3 B-5 2Sp				B-4	B-5 3Sp		B-4		
Q. ellipsoid										
Q. macrocarpa										
32-85 81.9 85.8 251.6 Q. velutina 629	C-3	B-4 C-4 C-4 5d B-5 12" 14" T +5Sp	B-4 B-3 C-3 B-4	C-4 C-2 C-3 C-4	C-3 C-3 C-3	B-5 B-5 C-4	C-5 B-4 C-4	C-3 5d C-4 C-4 5p	B-4 C-4 C-3	B-5 B-4 B-4 C-4 3Sp
1-2 2.6 2.1 7.1 Tilia amer 51.8										
Ulmus amer										
Ulmus fulva										
Canopy	50	75	50	80	50	55	50	70	60	75
Distance	14 37 25 20	18 22 16 22	43 42 11 30	8 15 11 25	16 36 28 28	5 23 28 33	20 25 61 30	17 43 7 21	27 21 28 34	10 80 23 25

CI=829.5

ave.
61.5
25.7'
66/ave

C.I.																	AVE B.A.	
Tree	No. :	No. :	No. Pts. :	No. :	F. % :	D. % :	II :		F. % :	D. % :	Dom. % :	I.I. :	C.I. :	Tree :	Stem :			
	Pts. :	Tr. :		Dom. :	Sap. :	Sap. :	Sap. :	Sap. :	Seed :	Seed :	Tr. :						Tr. :	Trees :
Acerrubrum	1	1	19						1.1	.8	.1	2	14	19				
A. saccharum	1	1	100	1	1	1.1	.8	2.8	2.8	1.1	.8	.7	2.6	26	100			
Carya cord.				3	3	3.3	2.3	8.4	72.2									
C. ovata	14	20	801	20	27	21.7	20.5	63.3	284.8	15.7	15.2	5.9	36.8	165.6	40			
Celtis occiden.																		
Fagus grand.																		
Fraxinus amer.	1	1	15	3	3	3.3	2.3	8.4	56.3	1.1	.8	.1	2	13.4	15			
F. lanceolata																		
F. pennsylvani																		
Juglans cinere																		
J. nigra																		
Ostrya virgin.																		
Populus grand.																		
P. tremuloides																		
Prunus serotin	19	27	1154	20	32	21.7	24.2	68.8	247.7	21.3	20.5	8.4	50.2	180.7	42.7	38.5		
Quercus alba	20	30	3386	16	24	17.4	18.2	53.4	192.2	22.5	22.7	24.8	70	252	112.9	96.7		
Q. ellipsoidalis																		
Q. macrocarpa	16	9	222	19	32	20.7	24.2	67.3	67.3	6.7	6.8	1.6	15.1	15.1	24.7			
Q. rubra																		
Q. velutina	21	37	7740	7	7	7.6	5.3	19.3	48.2	23.6	28	56.6	108.2	270.5	209.2	198.5		
Tilia american	4	4	181	2	2	2.2	1.5	5.5	40.1	4.5	3	1.3	8.8	64.2	45.2	25.9		
Ulmus american	1	1	30	1	1	1.1	.8	2.8	12.9	1.1	.8	.2	2.1	9.7	30			
U. rubra																		
Sorbus Aucuparia	1	1	26							1.1	.8	.2	2.1	2.1	26			
	89	132	13674	92	132	100.1	100.1	300	1049.7	99.8	100.2	99.9	299.9	1013.3				

Ave. Dist.	
Btw'n Trees	
16.1	SAP
13.3	
Ave. BA	
(Total	
PA ÷ 80)	
TREE	STEM
103.6	94.3
No. Trees	
Per acre	SAP
168	246.3
Dom. per	
acre	
17404.8	

1.1 stem/tree

+ 36.4

ACER RUBRUM
 A. SACCHARUM
 CAR. OVATA
 FRAX. AMER.
 PA. SEROT.
 Q. ALBA
 Q. MACROCARPA
 Q. VELUT.
 TILIA AMER.
 ULM. AMER.
 SORB. AUCUP.

12	23	34	45	56	67	78	89	100	125	150	175	200	250	300	350	400
22	33	44	55	66	77	88	99	124	149	174	199	249	299	349	399	449
1																
5	6	1	4		3		1									
1																
12	6	3	4				1	1	3							
7	4	2	2	2	4		1	1	1	4		6	1			
5	2	1	1													
1						1		1	4	2	8	3	11	4	2	1
4	1		2													
1																
1																
36	24	7	13	2	8	1	4	9	3	12	3	17	5	2	1	1

1	2	singles	mult.	trees	stems	% mult.	stems/tree
25	5	25	5	30	35	16.7	1.17
9		9	0	9	9	0	1
35	2	35	2	37	39	5.4	1.05
		69	7	76	83	9.2	1.09

STEMS
 Q. ALBA
 Q. MACROCARPA
 Q. VELUT.

1	2	singles	mult.	trees	stems	% mult.	stems/tree
25	5	25	5	30	35	16.7	1.17
9		9	0	9	9	0	1
35	2	35	2	37	39	5.4	1.05
		69	7	76	83	9.2	1.09

12	23	34	45	56	67	78	89	100	125	150	175	200	250	300	350	400
22	33	44	55	66	77	88	99	124	149	174	199	249	299	349	399	449
1																
5	6	1	4		3		1									
1																
12	6	3	4				1	1	3							
7	4	2	2	2	4		1	1	1	4		6	1			
5	2	1	1													
1						1		1	4	2	8	3	11	4	2	1
4	1		2													
1																
1																
36	24	7	13	2	8	1	4	9	3	12	3	17	5	2	1	1

+ 34.4

1.1 stems/tree

CI = 1013

37.9

	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	
Pop. trem.	1																	
Quercus ellip.																		
Q. macrocarp.	59	32	3	4	2													11 9
Q. velut.	13	7	1				1		1	3①	5	4	4①	10	154	2	1	48 37② 2
Prun. serot.	59	32	9	3①	6①	4		2①	3									35 27③ 4
Querc. alba	45	24	7	3	2	1①	5②	1		1	3	2		5②				39 30⑤ 7
Pop. grand.																		
Carya ovata	50	27	5	4	2	3	2	3	1									25 20
Querc. rubra																		
Juglans nig.																		
Frax. amer.	6	3	1															1 1
Acer rubrum			1															1 1
Tilia amer.	4	2	1	2①		1②												5 4③ 4
Jug. cinerea																		
Ulmus amer.	2	1			1													1 1
Celtis occ.																		
Ulm. rubra																		
Carya cord.	6	3																
Ostrya virg.																		
Acer sacc.	2	1							1									1 1
Sorbus aucuparia		132	1															1 1
Sap CI =	1050																	132⑬ 17
Av dist	16.1																	
Av BA	94.3	103.6																
Trees/acre	168		24			6			8			23		10				
Dom/acre	17,404		③			⑤			②			①		②				
#/acre	246		71.1			27.9			16.5			22.9		20.3		7.6	1.3	168

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 15
Quadrat No.

Dane Co. 1514
9N8E NE of SE 9

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala 4
Allium tricoccum
Amphicarpa braceata 345
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp. 13
Aplectrum hiemale
Apocynum androsaemifolium 9
Aquilegia canadensis
Aralia nudicaulis 910
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 6791013
A. shortii
Athyrium filix-femina
Botrychium virginianum 913
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 589
Caulophyllum thalictroides
Celastrus scandens 5610111213
Circaea quadrisulcata 1471013
Claytonia virginiana
Cornus alternifolia
C. femina 125810111213
C. rugosa
Corylus americana 78911
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 3561213
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum 38910
Festuca obtusa 6
Fragaria virginiana 9
Galium aparine 6
G. circaezans
G. concinnum 1239
G. lanceolatum
G. triflorum 2
Geranium maculatum 134591213
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 3458910
Hepatica acutiloba
Heuchera richardsonii 13
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 7
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 12312
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica 313
Parthenocissus inserta 12357810
Phlox divaricata 111213
Phryma leptostachya 1234561011
Podophyllum peltatum 12
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 7
Prenanthes alba
Pteridium aquilinum 12810
Pyrola elliptica
Ranunculus abortivus 13
R. recurvatus
R. septentrionalis
Rhus radicans 178
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis 10111213
R. occidentalis 11
R. strigosus 348911
Sambucus canadensis 1
Sanguinaria canadensis
Sanicula gregaria 459
S. marilandica 7813
Smilacina racemosa 137912
S. stellata
Smilax ecirrhata
S. herbacea
S. tannoides
Solidago altissima 24
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
V. pubescens
Vitis aestivalis
V. riparia 1279
Xanthoxylum americ.
Zizia aurea

Additional species:

- Prunus serot. 158
- Quercus velut. 2368910
- Q. alba 13
- Ambrosia artemisiifolia 4
- Taraxacum offic. 5
- Acer saccharum 6
- Poa prat. 12

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 15
Quadrat No.

Actaea pachypoda	Eupatorium rugosum 15 16 17 18 19 20	Polygonatum canaliculatum
Adiantum pedatum	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala 18	Fragaria virginiana 15	Potentilla simplex
Allium tricoccum	Galium aparine 14 16	Prenanthes alba
Amphicarpa braceata	G. circaeazans	Pteridium aquilinum 16
Anemone quinquefolia	G. concinnum	Pyrola elliptica
A. virginiana	G. lanceolatum	Ranunculus abortivus
Anemonella thalictroides	G. triflorum 15 17 18 19 20	R. recurvatus
Antennaria sp.	Geranium maculatum 14 15 16 17 18 19 20	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans 15
Apocynum androsaemifolium	Geum canadense 20	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati
Aralia nudicaulis 18 19	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp. 15
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis 15
Arisaema atrorubens	Helianthus strumosus 19	R. occidentalis
Asarum canadensis	Hepatica acutiloba	R. strigosus 17
Aster macrophyllus	Heuchera richardsonii 15	Sambucus canadensis
A. sagittifolius 16	Hydrastis canadensis	Sanguinaria canadensis
A. shortii	Hydrophyllum virginianum	Sanicula gregaria
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum	Impatiens capensis	Smilacina racemosa 14 15 17 18 19 20
Brachyelytrum erectum	I. pallida	S. stellata 15 19
Campanula americana	Isopyrum biternatum	✓ Smilax ecirrhata
Carex albursina	Lactuca biennis 14 15 20	S. herbacea
C. pensylvanica 14	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides	Lathyrus ochroleucus	Solidago altissima 15
Celastrus scandens 14	Lonicera prolifera 15	S. flexicaulis
Circaea quadrisulcata 15 17 18 20	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana	Maianthemum canadensis	Thalictrum dioicum
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina 14 17 20	Mitella diphylla	Trillium cernuum
C. rugosa	Monarda fistulosa	T. flexipes
Corylus americana 14 15 16 18	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza clayton. 17 19	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis	Uvularia grandiflora
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum 15 16 17 18 19	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica 15 18 19	Viola cucullata 13
Dodecatheon meadia	Parthenocissus inserta 14 16 17 18 19 20	V. pubescens
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 14 15 16 17	V. riparia 16
Erythronium albidum	Podophyllum peltatum	Xanthoxylum americ. 18
Eupatorium purpureum	Polemonium reptans	Zizia aurea

Additional species:

- Quercus velut 14 19
- Quercus alba 15
- Prunus virgin. 16
- Taraxacum offic. 15
- Poa prat. 15
- Chenopodium album 15
- Carex convoluta 9
- Cirsium altissim. 1, 8, 9, 10, 18

SOUTHERN UPLAND HARDWOODS

Presence

1514

- | | | |
|-------------------------------|------------------------------|----------------------------|
| Actaea pachypoda | ✓ Galium aparine 15 | ✓ Pteridium aquilinum 25 |
| ✓ Adiantum pedatum | G. circaeazans | Pyrola elliptica |
| ✓ Agrimonia gryposepala 10 | ✓ G. concinnum 20 | ✓ Ranunculus abortivus 5 |
| Amelanchier spp. | G. lanceolatum | ✓ R. recurvatus |
| - Amphicarpa bracteata 15 | - G. triflorum 30 | R. septentrionalis |
| Anemonella thalictroides | ✓ Geranium maculatum 70 | ✓ Rhus radicans 20 |
| ✓ Apocynum androsaemifolium 5 | ✓ Geum canadense 5 | ✓ R. cynosbati |
| ✓ Aralia nudicaulis 20 | Hackelia virginiana | R. missouriense |
| ✓ A. racemosa | ✓ Helianthus strumosus 35 | ✓ Rosa sp. 5 |
| Arenaria lateriflora | Hepatica acutiloba | ✓ Rubus allegheniensis 25 |
| ✓ Arisaema atrorubens | Hydrophyllum virginianum | ✓ R. occidentalis 5 |
| Aster macrophyllus | Hystrix patula | ✓ R. strigosus 30 |
| ✓ A. sagittifolius 30 | Impatiens biflora | - Sambucus canadensis 5 |
| A. shortii | ✓ Lactuca biennis 20 | Sanguinaria canadensis |
| Athyrium filix-femina | Laportea canadensis | ✓ Sanicula gregaria 15 |
| ✓ Botrychium virginianum 10 | Lathyrus ochroleucus | ✓ S. marilandica 15 |
| ✓ Brachyelytrum erectum | ✓ Lonicera prolifera 5 | ✓ Smilacina racemosa 55 |
| Carex albursina | Lysimachia quadrifolia | ✓ S. stellata 10 |
| ✓ C. convoluta 5 | Monarda fistulosa | ✓ Smilax ecirrhata |
| ✓ C. pensylvanica 20 | ✓ Osmorhiza claytoni 30 | ✓ S. herbacea |
| Caulophyllum thalictroides | O. longistylis | ✓ Solidago canadensis 15 |
| ✓ Celastrus scandens 35 | Oxalis violacea | S. flexicaulis |
| ✓ Circaea quadrisulcata 45 | Panicum latifolium | S. ulmifolia |
| Cornus alternifolia | ✓ Parietaria pensylvanica 25 | Thalictrum dioicum |
| ✓ C. femina 55 | ✓ Parthenocissus vitacea 80 | ✓ Triosteum perfoliatum |
| C. rugosa | Phlox divaricata | Uvularia grandiflora |
| ✓ Corylus americana 40 | ✓ Phryma leptostachya 65 | Veronicastrum virginicum |
| Cryptotaenia canadensis | Podophyllum peltatum | Viburnum acerifolium |
| ✓ Desmodium glutinosum 50 | Polemonium reptans | ✓ V. lentago |
| D. nudiflorum | ✓ Polygonatum canaliculatum | V. rafinesquianum |
| Dioscorea villosa | P. pubescens | ✓ Viola cucullata 5 |
| Eupatorium purpureum | Polygonum virginianum | V. pubescens |
| ✓ E. rugosum 50 | ✓ Potentilla simplex 5 | Vitris aestivalis |
| - Festuca obtusa 5 | Prenanthes alba | ✓ V. riparia 25 |
| ✓ Fragaria virginiana 10 | ✓ Prunus virginiana 5 | ✓ Zanthoxylum americanum 5 |

Additional species:

- | | |
|--------------------------|----------------------------|
| - Erigeron pulchellus 10 | - Antennaria sp. 5 |
| - Acer sacce 5 | - Heuchera richardsonii 10 |
| - Tilia am | - Prunus serot, 15 |
| - Quercus velut. 40 | |
| - Q. alba 10 | |
| - P. muc | |
| - Prunus americana | |
| - Asclepias exaltata | - Poa prat. 10 |
| - Viola eriocarpa | - Chenopodium album 5 |
| - Ambrosia artemis. 5 | - Cirsium altissimum 25 |

- Taraxacum 10

1514

CI = 1013

S_{4p} 1050 S

H - 249 S

