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Stand # 1503

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 4

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
✓ Carya cord	1	28	35, 20 23+1	1	14	3	3	1	3	2
✓ C. ovata		15							1	1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										1
J. nigra			15	1					55	160
Ostrya virg										
✓ Populus gran							3	75	1	
P. tremul										
✓ Prunus serot		1	2		50		35			85
✓ Quercus alba	3	30		55	45 60		35			22+1
Q. ellipsoid										
Q. macrocarpa										
✓ Q. rubra						60, 30 40, 40				
✓ Q. velutina	25, 24 13, 12 23, 25	20	30, 24	12 30 35	3	110, 65 65, 40 55	50, 65 45 35	80 50 75	1	110 22
Tilia amer										
Ulmus amer										
✓ Ulmus fulva									60, 80 90, 120 75, 55	1
Summary Dist	3, 12 6, 7	3, 13 5	21, 16 13, 24	7, 8 11, 19	2, 22 16, 40	10, 9 4, 17	8, 4 7, 8	7-22 12-23	55, 16 24, 17	24, 22 40, 11
Distance	2, 19 9, 16	7, 7 16, 27	3, 12 12, 19	13, 18 9, 6	12, 9 6, 23	6, 6, 10 13	20, 10 18, 40	12-13 8, 13	14, 16 10, 11	3, 16 14, 13

✓ Acer negundo

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 4

STATION NO.	11	12	13	14	15	16	17	18	19	20
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord		3	4	4	16	1	16	2	3	1
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran	24 60 60 40		65 30	70 55 45	55		19	1		
P. tremul										
Prunus serot						1				
Quercus alba						50	1	50		
Q. ellipsoid									1	15
Q. macrocarpa									2	
Q. rubra										
Q. velutina										
Tilia amer										
Ulmus amer										
Ulmus fulva										
Sophora	12-21	21, 20	6 11	8-18	17, 23	9, 9	14, 8	5, 7	9-5	1, 27
Dist	14 14	15, 42	23, 25	25 18	20, 18	10, 14	24, 29	9, 10	10-23	10, 19
Distance	6 6 8-8	11, 14 13, 13	5 6 10 11	19 9- 11 22	11 18 17 30	6 16 17 15	28 11- 7, 16	9, 14 13, 14	11- 6 14 8	2, 19 20, 8-

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 4

STATION NO.	21	22	23	24	25	26	27	28	29	30
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	15 35	2	1	1	1	40, 3	1	4 12 18+44	3	4
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra					45	45				
Ostrya virg										
Populus gran		40 17					30		126 130	
P. tremul										
Prunus serot			1	✓						
Quercus alba	1	M 1	24 25, 27 40, 45	65	1				12	
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina	20, 27, 18 17, 19	20, 23 30, 20 15	15, 14, 11	30 45, 44 13, 13, 16	35 50	40 21 65, 45	30, 30, 50 50, 15 35	45 30, 75	17	56 25, 15
Tilia amer										
Ulmus amer										
Ulmus fulva										
Sapling Distance	13, 20 6, 24	10, 15 12, 13	13, 14 10, 17	3, 9 2, 15	14, 15 7, 35	6, 2 11, 13	14, 14 16, 5	15, 10 5, 14	2, 14 13, 10	10, 10 22, 24
Distance	12, 22 10, 11	6, 9 15, 12	1, 5 5, 15	22, 22 4, 14	4, 15 7, 16	14, 8 25, 12	7, 14 15, 19	10, 18 10, 8	5, 22 16, 9	3, 7 17, 9

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 4

STATION NO.	31	32	33	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord		3	2	3	14	2	20	1	3	2
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin										
J. nigra						45 28	45			
Ostrya virg										
Populus gran		75	15 90	40	120					
P. tremul										
Prunus serot				1						
Quercus alba	3		25				29		45 29, 45	25, 15, 43
Q. ellipsoid									140	21
Q. macrocarpa										45
Q. rubra				120	73	1				
Q. velutina	53 60, 16, 10 120, 20 30	45, 70 13, 75		75 60, 13	45, 40, 16	20 13		45 17, 13, 13 13, 20	14	2 15, 2
Tilia amer										
Ulmus amer										
Ulmus fulva		85								
Pyrus Ioensis										1
	12, 14 1, 20	10, 10 17, 20	5, 4 1, 13	14, 16 20, 14	8, 8 7, 15	14, 7 8, 12	20, 10 9, 25	12, 7 9, 14	4, 7 5, 11	20, 18 14, 35
Distance	17, 27 6, 10	20, 11 15, 95	13, 20 17, 14	16, 10 14, 13	14, 16 13, 22	12, 13 5, 11	7, 6 14, 22	2, 8 21, 23	26, 8 16, 13	8, 11 12, 15

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1503

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.										
4.7 6.3 16.5 J. nigra 103.9			(B-4) T 60"	(B-5) T 50" + 1T						
Ostrya virg										
Populus gran										
P. tremul						(A-4) 2 Sp				
9.3 6.2 23.3 Prunus serot 83.9						(A-3) 2 Sp	A-5	(A-5) T 22"		
18.6 17.2 53.8 Quercus alba 193		(B-4) B-4		(B-5) dead sp	A-4	(A-5) Sp	A-4	(A-5) T 25" 2 Sp	A-3	
Q. ellipsoid										
Q. macrocarpa		(B-5) T 75"								
67.6 70.2 206.6 Q. rubra 847.1		(B-4) B-2 Sp	(B-4) T 19"	(B-5) T 14"	(B-5) T 90" + 1T	(B-5) T 115"	(B-4) T 17" 2 Sp	(A-5) T 17"	(A-4) A-5	(A-5) T 75" + 1T
Q. velutina		(B-4) B-3 Sp	(B-5) A-3 Sp	(B-5) T 85" + 4T	(B-5) 2 Sp	(B-5) T 70" + 1T	(A-4) T 12"	(A-5) 3 Sp	(A-5) T 65"	(A-5) T 55"
Tilia amer			(B-5) T 60" + 1T	(A-5) T 16"	(B-5) T 35" + 1T		(A-5) T 35"		(A-5) T 25"	(A-5) T 30"
Ulmus amer					(B-5) T 60"					
Ulmus fulva										
Canopy	80	80	80	75	75	60	70	80	65	75
Distance	10 44 11 23	15 13 10 35	16 19 10 30	7 16 17 20	15 14 16 32	12 31 19 9	13 25 12 25	11 16 9 11	18 14 9 11	21 27 20 28

CI = 1227.9

ave
74%
17.8'
137/ac.

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No.

Cut nearly clear c. 45 yrs. ago.
 Little bit cut since then.

Otto Grand (son) Will pay \$5/thousand if you
 saw a buyer to him (Red pine)
 were pretty big trees they cut then
 Predicts another 30 yrs, there'll be good lumber

STATION NO.

Acer rubrum

A. saccharum

Betula papy.

Carpinus car.

Carya carya

C. ovata

Castor olea

Crataegus sp.

Fagus grand.

Fraxinus sp.

G. nigra

Juglans cin.

L. 1-2

L. nigra

Populus sp.

P. tremula

Prunus americana

Q. macrocarpa

Q. prinus

Q. velutina

Ulmus americana

Vitis rot.

Vitis rot.

Vitis rot.

Vitis rot.

Vitis rot.

Vitis rot.

Vitis rot.

Vitis rot.

1503

Tree	:No. :No. :		:No.Pts.:No. :		:F.% :D.% :		:I.I. :F.% :		:F.% :D.% :		:Dom.% :		:I.I. :C.I. :		:Tree:Stem:	
	:Pts.:	Tr.	Dom.	Sap.	Sap.	Sap.	Sap.	Seed:	Seed:	Tr.	Tr.	Trees	I.I.	C.I.	Tree	Stem
Acerrubrum																
A. saccharum																
Carya cord.	12	17	(21) 500	35	77	37.2	48.1	127.9	1099.9	13.3	10.6	5.6	29.5	253.7	29.4	23.8
C. ovata	1	1	15	2	2	2.1	1.2	4.9	22.1	1.1	.7	.2	2	9	15	15
Celtis occiden.																
Fagus grand.																
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere				1	51	1.1	.7	2.7	20.5							
J. nigra	8	9	(10) 503	2	2	2.1	1.2	4.9	30.9	8.9	5.6	5.7	20.2	127.3	53.9	50.3
Ostrya virgin.																
Populus grand.	13	23	1369	3	5	3.2	3.1	9.4	40.4	14.4	14.4	15.4	44.2	190.1	59.5	59.5
P. tremuloides																
Prunus serotin	4	5	(6) 231	8	9	8.5	5.6	21.1	76	4.4	3.1	2.6	10.1	36.4	46.2	38.5
Quercus alba	15	23	(27) 1068	12	17	12.8	10.6	35.1	126.4	16.7	14.4	12	43.1	155.2	46.4	39.6
Q. ellipsoidalis																
Q. macrocarpa																
Q. rubra			(134)													
Q. velutina	35	80	4644	27	43	28.7	26.9	83.4	333.6	38.9	50	52.2	141.1	564.4	58	34.7
Tilia american																
Ulmus american																
U. rubra	2	2	(7) 560	3	3	3.2	2	7.8	64	2.2	1.2	6.3	9.7	79.5	280	80
Pyrus ioensis				1	1	1.1	.7	2.7	2.7							
			(229)													
	90	160	8890	94	160	100	100.1	(1816.5)	99.9	100	100	299.9	(1415.6)			

1.43 stems/tree

+ 400.9

Ave. Dist.

Btw'n Trees

13.1 13.9

Ave. BA

(Total

BA + 80)

stem 38.8

tra 55.6

No. Trees

Per acre

253.8 225.5

Dom. per
acre

14,111.2

95.6%

219

4.4%

10

SIZE

12-22 23-33 34-44 45-55 56-66 67-77 78-88 89-99 100-124 125-149 150-174

CARYA COR.

12

3

5

1

CAR. OVATA

1

JUG. NIGRA

1

2

1

5

POP. GRAND.

3

3

3

3

3

3

2

2

1

PRUN. SEROT.

2

1

1

1

1

1

1

1

1

QUERC. ALBA

5

8

2

9

2

2

2

2

2

Q. RUB-VELUT.

57

24

15

16

8

6

4

4

4

ULMUS FULVA

81

41

27

36

14

10

7

3

7

2

1

229

STEMS

1

2

3

4

5

6

CARYA COR.

14

2

1

1

1

1

1

1

1

1

1

JUGLANS NIGRA

8

1

1

1

1

1

1

1

1

1

1

PRUN. SEROT.

4

1

1

1

1

1

1

1

1

1

1

QUERC. ALBA

19

4

1

1

1

1

1

1

1

1

1

Q. RUB-VELUT.

48

14

16

1

1

1

1

1

1

1

1

ULM. FULVA

1

1

1

1

1

1

1

1

1

1

1

Quercus total

67

36

103

161

35

1.56

to multiple
stems

stems/tree

1503

	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.																	
Quercus ellip.	1.4	1															
Q. macrocarp.																	
Q. velut.																	
Prun. serot.	12.7	9	10	1	1	1		1									8 50 2
Querc. alba	24	17	2	6②	3	8②	2	1			1						37 23 ④ 6
Pop. grand.	7	5	3	1	2	4	4	4	2	3							37 23
Carya ovata	2.4	2	1														12 1
{ Q. VELUT }																	
Querc. rubra	60.6	43	18⑦	17⑧	11⑥	11⑥	5④	10⑭	4⑥	2①	2②						126 80 ⑤ 85
Juglans nig.	2.8	2	1	1	10	4	1					1					114 9 ① 2
Frax. amer.																	
Acer rubrum																	
Tilia amer.																	
Jug. cinerea	1.3	1								1③							
Ulmus amer.																	
Celtis occ.																	
Ulm. rubra	4.2	3						1		1⑤							3 2⑤ 8
Carya cord.	10.8	77	9①	2	3③	3											27 17 ④ 6
Ostrya virg.																	
Acer sacc.																	
		160															160 69 109
Sap CI =	1816																
Av dist	13.1																
Av BA	38.8	(55.6)															
Trees/acre	253.8																
Dom/acre	14,111																
#/acre	225	133.6			92.2			25.4			3.2						254

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 4
Quadrat No.

✓ *Actaea pachypoda*
 ✓ *Adiantum pedatum*
 ✓ *Agrimonia grypsossepala*
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* |
A. shortii
 ✓ *Athyrium filix-femina* |
 ✓ *Botrychium virginianum* |||
Brachyelytrum erectum
Campanula americana
Carex albursina
 ✓ *C. pensylvanica* ||||
 ✓ *Caulophyllum thalictroides* |
 ✓ *Celastrus scandens* |
 ✓ *Circaea quadrisulcata* |||||
Claytonia virginiana
Cornus alternifolia
 ✓ *C. femina* ||
C. rugosa
 ✓ *Corylus americana* ||||
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* ||
Galium aparine
G. circaeazans
 ✓ *G. concinnum* ||||
G. lanceolatum
G. triflorum
 ✓ *Geranium maculatum* |||||
Gerardia grandiflora
 ✓ *Geum canadense* ||
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
 ✓ *Helianthus strumosus* ||||
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
Orchis spectabilis
Oryzopsis racemosa
 ✓ *Osmorhiza clayton.* ||||
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica |
 ✓ *Parthenocissus inserta* ||||
Phlox divaricata
 ✓ *Phryma leptostachya* ||||
 ✓ *Podophyllum peltatum* ||||
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
 ✓ *Prenanthes alba*
 ✓ *Pteridium aquilinum* ||||
 ✓ *Pyrola elliptica* ||
Ranunculus abortivus
R. recurvatus
R. septentrionalis
 ✓ *Rhus radicans* ||||
Ribes americanum
R. cynosbati
R. missouriense |
Rosa sp.
Rubus allegheniensis ||||
 ✓ *R. occidentalis* ||||
R. strigosus |
 ✓ *Sambucus canadensis* |
Sanguinaria canadensis
 ✓ *Sanicula gregaria* |
 ✓ *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
V. pubescens
Vitis aestivalis
 ✓ *V. riparia*
Xanthoxylum americ.
Zizia aurea

Additional species:

✓ *Carex convoluta* |
 ✓ *Dierilla lonicera*

Prunus virginiana ||||
 ✓ *Viburnum lentago*

NE 25 1203
Univ. of Wisconsin

Stand No. 4
Quadrat No. 4

Mr. Grancee - saw them
ovic Kraus

not for firewood lat
15 years

- Polygonatum canadense*
- Polygonatum pubescens*
- Potentilla simplex*
- Prenanthes alba*
- Pyrola elliptica*
- Ranunculus abortivus*
- Ranunculus repens*
- Rhus typhina*
- Ribes americanum*
- R. cynosbati*
- R. missouriense*
- Rosa sp.*
- Rubus allegheniensis*
- R. occidentalis*
- R. strigosus*
- Sambucus canadensis*
- Sanguinaria canadensis*
- Sanicula virginica*
- S. marilandica*
- Smilacina racemosa*
- S. stellata*
- Smilax ecirata*
- S. herbacea*
- S. latifolia*
- Solidago altissima*
- S. flexicaulis*
- S. umbellata*
- Thalictrum dioicum*
- Townia virginiana*
- Trillium cernuum*
- T. flexifolium*
- T. grandifolium*
- T. repens*
- Triosteum perfoliatum*
- Uvularia grandiflora*
- Viburnum acerifolium*
- V. lentum*
- Vitis bicolor*
- Vitis rotundifolia*
- Xanthoxylum americanum*
- Xisla curra*

Plant Ecology Research
SOUTHERN UPLAND HARDWOODS

- Eupatorium rugosum*
- Festuca obtusa*
- Fraxinus virginiana*
- Galium aparine*
- G. citreum*
- G. concinnum*
- G. lanceolatum*
- G. triflorum*
- Geranium maculatum*
- Gerardia grandiflora*
- Germ. canadense*
- Goodyera pubescens*
- Habenaria bracteata*
- Hackelia virginica*
- Hemallis virginiana*
- Hellanthus strimousus*
- Hepatica acutiloba*
- Hesperis richardsonii*
- Hydrastis canadensis*
- Hydrophyllum virginianum*
- Hyssopus patula*
- Impatiens capensis*
- I. pallida*
- Isopyrum heterophyllum*
- Lactuca biennis*
- Laportea canadensis*
- Lathyrus ochroleucus*
- Lonicera prostrata*
- Lythrum quadrifidum*
- Malvastrum canadense*
- Menispermum canadense*
- Mitella diphylla*
- Monarda fistulosa*
- Orechis spectabilis*
- Oryopsis racemosa*
- Osmorhiza fraxinifolia*
- O. longistylis*
- Osmunda claytonii*
- Panax quinquefolium*
- Panicum latifolium*
- Paspalum conjugatum*
- Poa diversifolia*
- Poa leptocoma*
- Polygonum persicaria*
- Polygonum virginicum*
- Potentilla reptans*

- Additional species:
- Actinobaccharis*
 - Adiantum*
 - Aegle*
 - Ailanthus*
 - Amphioxys*
 - Anemone pulsatilla*
 - A. virginiana*
 - Anemone thalictroides*
 - Antennaria sp.*
 - Aplousium*
 - Apocynum androsaemifolium*
 - Aquilegia canadensis*
 - Aralia nudicaulis*
 - A. racemosa*
 - Aster latifolius*
 - Aster strigosus*
 - Astrum canadensis*
 - Aster macrophyllus*
 - A. multiflorus*
 - A. abortivus*
 - Atropa*
 - Brachyotum erectum*
 - Campylosiphon americanus*
 - Carex albostriata*
 - C. pensylvanica*
 - Caulophyllum thalictroides*
 - Celastrus scandens*
 - Citrus quadrifidus*
 - Claytonia virginiana*
 - Cornus alternifolia*
 - C. femina*
 - C. rugosa*
 - Corylus americana*
 - Cryptotaenia canadensis*
 - Cypripedium pubescens*
 - Cystopteris fragilis*
 - Danthonia racemosa*
 - Desmodium illinoense*
 - D. nudiflorum*
 - D. strictum*
 - Dodecatheon meadia*
 - Dryopteris spinulosa*
 - Eriogon pulchellus*
 - Erythronium americanum*
 - Eupatorium purpureum*

Janesville
over 4 mile bridge, turn at gas tanks (like solo) go N. on 1st hand
side. 40 acres red & black
ago 7 year



SOUTHERN UPLAND HARDWOODS

Presence 1503

- | | | |
|---------------------------------------|------------------------------------|-------------------------------------|
| ✓ <i>Actaea pachypoda</i> | <i>Galium aparine</i> | ✓ <i>Pteridium aquilinum</i> 15 |
| ✓ <i>Adiantum pedatum</i> | <i>G. circaezans</i> | ✓ <i>Pyrola elliptica</i> 10 |
| ✓ <i>Agrimonia gryposepala</i> | ✓ <i>G. concinnum</i> 40 | <i>Ranunculus abortivus</i> |
| <i>Amelanchier</i> spp. | <i>G. lanceolatum</i> | ✓ <i>R. recurvatus</i> |
| ✓ <i>Amphicarpa bracteata</i> 10 | <i>G. triflorum</i> | ✓ <i>R. septentrionalis</i> |
| <i>Anemonella thalictroides</i> | ✓ <i>Geranium maculatum</i> 75 | ✓ <i>Rhus radicans</i> 50 |
| ✓ <i>Apocynum androsaemifolium</i> 5 | ✓ <i>Geum canadense</i> 10 | ✓ <i>R. cynosbati</i> 5 |
| ✓ <i>Aralia nudicaulis</i> 25 | <i>Hackelia virginiana</i> | <i>R. missouriense</i> |
| ✓ <i>A. racemosa</i> | ✓ <i>Helianthus strumosus</i> 25 | ✓ <i>Rosa</i> sp. |
| ✓ <i>Arenaria lateriflora</i> | <i>Hepatica acutiloba</i> | ✓ <i>Rubus allegheniensis</i> 25 |
| ✓ <i>Arisaema atrorubens</i> 5 | <i>Hydrophyllum virginianum</i> | ✓ <i>R. occidentalis</i> 15 |
| <i>Aster macrophyllus</i> | ✓ <i>Hystrix patula</i> | ✓ <i>R. strigosus</i> 5 |
| ✓ <i>A. sagittifolius</i> 5 | <i>Impatiens biflora</i> | ✓ <i>Sambucus canadensis</i> 5 |
| <i>A. shortii</i> | ✓ <i>Lactuca biennis</i> 10 | <i>Sanguinaria canadensis</i> |
| ✓ <i>Athyrium filix-femina</i> 5 | <i>Laportea canadensis</i> | ✓ <i>Sanicula gregaria</i> 5 |
| ✓ <i>Botrychium virginianum</i> 15 | ✓ <i>Lathyrus ochroleucus</i> 5 | ✓ <i>S. marilandica</i> 10 |
| <i>Brachyelytrum erectum</i> | ✓ <i>Lonicera prolifera</i> | ✓ <i>Smilacina racemosa</i> 65 |
| <i>Carex albursina</i> | <i>Lysimachia quadrifolia</i> | ✓ <i>S. stellata</i> |
| ✓ <i>C. convoluta</i> 5 | ✓ <i>Monarda fistulosa</i> | ✓ <i>Smilax ecirrhata</i> 25 |
| ✓ <i>C. pensylvanica</i> 25 | ✓ <i>Osmorhiza claytoni</i> 20 | ✓ <i>S. herbacea</i> 5 |
| ✓ <i>Caulophyllum thalictroides</i> 5 | ✓ <i>O. longistylis</i> | ✓ <i>Solidago canadensis</i> |
| ✓ <i>Celastrus scandens</i> 5 | <i>Oxalis violacea</i> | <i>S. flexicaulis</i> |
| ✓ <i>Circaea quadrisulcata</i> 45 | <i>Paricum latifolium</i> | ✓ <i>S. ulmifolia</i> 5 |
| <i>Cornus alternifolia</i> | ✓ <i>Parietaria pensylvanica</i> 5 | ✓ <i>Thalictrum dioicum</i> 20 |
| ✓ <i>C. femina</i> 15 | ✓ <i>Parthenocissus vitacea</i> 30 | ✓ <i>Triosteum perfoliatum</i> |
| <i>C. rugosa</i> | <i>Phlox divaricata</i> | ✓ <i>Uvularia grandiflora</i> 10 |
| ✓ <i>Corylus americana</i> 25 | ✓ <i>Phryma leptostachya</i> 30 | ✓ <i>Veronicastrum virginicum</i> 5 |
| ✓ <i>Cryptotaenia canadensis</i> 10 | ✓ <i>Podophyllum peltatum</i> 20 | <i>Viburnum acerifolium</i> |
| ✓ <i>Desmodium glutinosum</i> 55 | <i>Polemonium reptans</i> | ✓ <i>V. lentago</i> |
| <i>D. nudiflorum</i> | ✓ <i>Polygonatum canaliculatum</i> | <i>V. rafinesquianum</i> |
| <i>Dioscorea villosa</i> | <i>P. pubescens</i> | <i>Viola cucullata</i> |
| ✓ <i>Eupatorium purpureum</i> | <i>Polygonum virginianum</i> | <i>V. pubescens</i> |
| ✓ <i>E. rugosum</i> | <i>Potentilla simplex</i> | <i>Vitris aestivalis</i> |
| ✓ <i>Festuca obtusa</i> 5 | ✓ <i>Prenanthes alba</i> | ✓ <i>V. riparia</i> |
| ✓ <i>Fragaria virginiana</i> 10 | ✓ <i>Prunus virginiana</i> 25 | <i>Zanthoxylum americanum</i> |

Additional species:

6
69
175

Echinocystis lobata

✓ *Scrophularia marilandica*
 ✓ *Cirsium altissimum*
 ✓ *Diervilla lonicera*
 ✓ *Cypripedium pubescens*
 ✓ *Helianthus decapetalus*

Crataegus

1503

CI = 1416
SAP - 1816 + 1
H - 2805

750

550

350

250

150

100

50

25

1

4

7

10

13

16

19

22

25

