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Stumps

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1516

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										
23-48 57.5 52.3 164.7 Quercus alba 592.9	A-3	C-3	B-4 B-3	B-3 C-4	B-3 C-1	C-4 B-4	B-3 B-3	B-4	B-1 A-2	A-3
Q. ellipsoid			B-4		B-3	A-3	A-4			
17-44 42.5 47.9 2 135.6 Q. rubra 3 506.2	B-4 C-2	C-4		C-4	B-4	B-4	C-4	B-4 C-3 C-4	B-3 C-4	B-4 C-4 C-4
Q. velutina 3 113										
Tilia amer										
Ulmus amer										
Ulmus fulva										
Canopy 65	50	85	80	75	25	85	80	65	100	85
Distance	27 9 32 35	11 32 12 52	19 15 32 39	30 20 46 43	9 53 54 11	26 19 36 42	30 30 50 38	32 43 12 31	11 40 12 83	28 26 65 50

CI = 1212.1

Ave.

72.3

32.1'

42/acre

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 18

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum							1			
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	4	3	1	1		2		2	1	1
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra		1	15	2	110	26	1			
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot			24		2					3
Quercus alba	165 105 205	300 190 120	210 140	75 380 170	160 170 120	130	150 95 50	100 110 120 230	180 170 150 210	120 210 75
Q. ellipsoid										
Q. macrocarpa										
Q. rubra		400				240				
Q. velutina						420 200				
Tilia amer										18
Ulmus amer					3	2			1	
Ulmus fulva							3	2	2	
	18 5 27 9	12 11 15 21	5 12 11 20	7 14 21 18	11 15 15 40	11 13 9 33	6 9 13 17	7 7 7 10	7 13 10 20	5 16 7 16
Distance	13 116 20 27	22 13 20 25	19 18 11 26	7 27 7 28	7 25 6 19	16 14 12 16	4 20 15 23	20 22 18 9	12 13 14 40	22 12 11 15

Q. alba 12-13" diam 67 yrs

6500

220	280
180	180
220	120
320	180
360	100

Soil A. $\frac{1}{8} - \frac{1}{4}$ "

Silt loam

A₁ 2-2½"

Temp. Soil 21° - 20°
Air 27° - 26°

POINT RECORD TREES

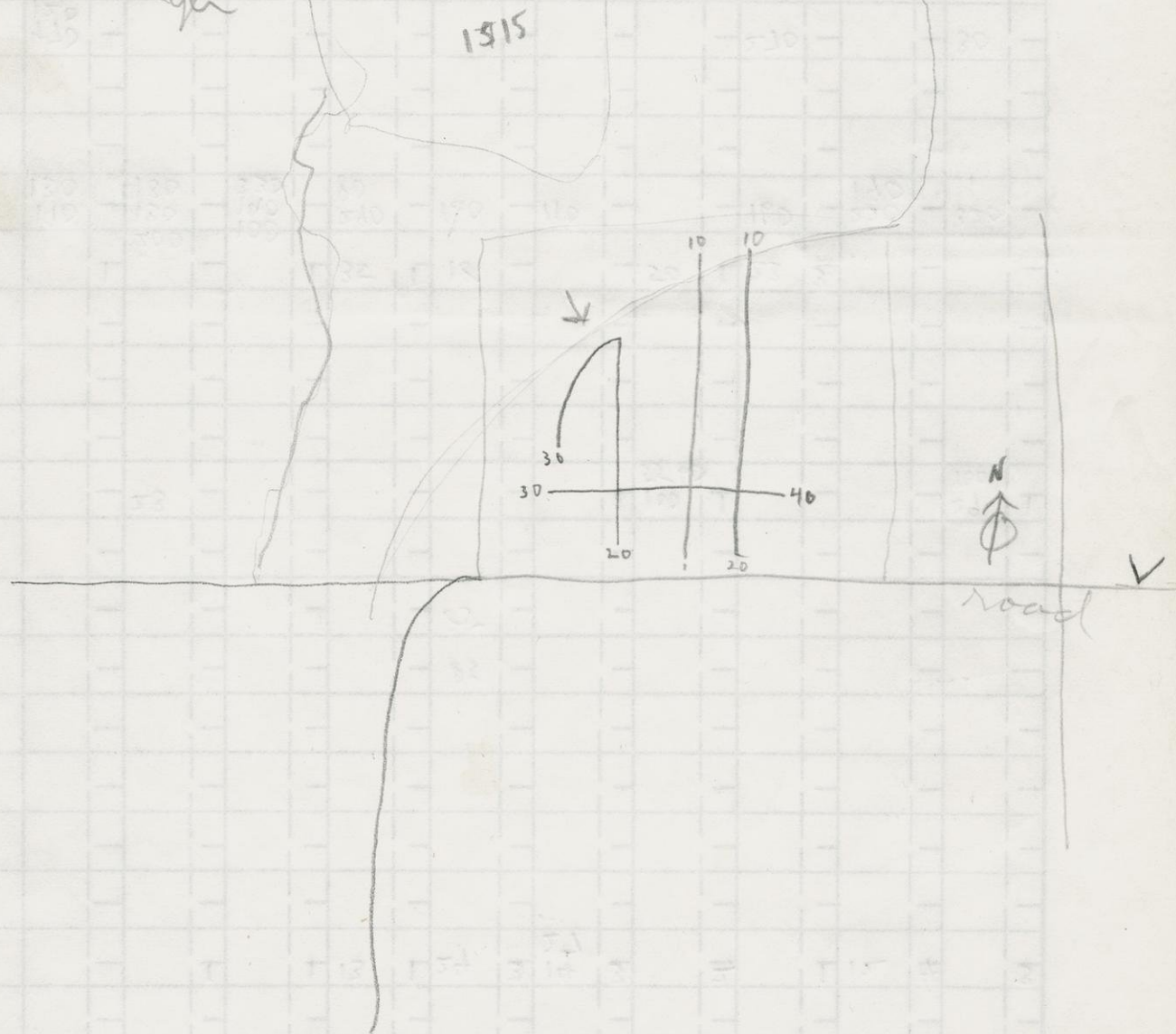
SOUTHERN HARDWOODS

Stand No. 18

STATION NO.	1	2	3	4	5	6	7	8	9	10			
Acer rubrum													
A. saccharum													
Betula papy.													
Carpinus car													
Carya cord		1	1	13	24	3	14 27	3	2	1	12	4	3
C. ovata													
Celtis occ													
Crataegus sp.													
Fagus grand													
Fraxinus am					85								
F. nigra													
Juglans cin.													
J. nigra		23					1	100 55 60	1			29	1
Ostrya virg													
Populus gran													
P. tremul													
Prunus serot	1			1	35	1	18		50	1	23	3	
Quercus alba	190 130	200 130	100 140 330	290 80	160	110		160		220 190		320	
Q. ellipsoid													
Q. macrocarpa													
Q. rubra	470 120							270				30	
Q. velutina								430					
Tilia amer	1		60				35 40						
Ulmus amer				2		1				65			
Ulmus fulva	2	3	2										
	5 32 40 26	7 14 13 15	9 21 19 16	8 27 35 38	5 26 27 28	30 35 19 30	14 25 6 38	8 10 7 7	9 16 23 38	15 22 35 22			
Distance	7 11 12 26	8 33 18 19	7 7 7 26	16 24 8 11	7 20 27 28	10 7 18 20	7 20 21 22	13 22 7 16	12 13 15 19	7 21 17 28			

Q. alba 98 yrs. 13" diam. 170 B.A. (1' high)
(= 130 B.A. at B.H.)

Mostly Q. alba now, except some larger Q. rubra probably
same age. Many Q. alba have been cut but poss. more Q. rub.
since they are larger



POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 18

STATION NO.	21	2	3	4	5	6	7	8	9	30
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	3	3		1		17	1	1	2	13 4
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra	1				120 22	35	14		26	
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot		1	1	16	60	2	13	2	1	1
Quercus alba	260 95 50	130 140	190 110 90	65 240	300	260	180 100	130 150 150	140 100	120 130
Q. ellipsoid		130					150	240		
Q. macrocarpa										
Q. rubra	330							340 190		
Q. velutina		270								270
Tilia amer										
Ulmus amer			3	150	3	150	1		45	1
Ulmus fulva							1	2		
Sap	9 7 14 21	6 22 14 13	8 16 9 16	5 12 10 17	18 27 31 35	7 11 12 20	2 7 5 22	23 29 10 27	9 12 17 16	7 22 10 18
Distance	13 11 16 30	13 23 7 22	18 15 25 26	15 18 24 25	10 13 12 32	17 20 18 11	9 18 25 18	21 25 20 14	6 7 27 30	15 10 13 25

Q. rubra 100 yrs. 19-20" diam 380 B.A. at 1'
(= c. 280 BA at BH)

Q. alba 85 100 B.A. at 1'

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 18

STATION NO.	31	2	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	2	3	1	2	4	3	3	3	2	2
C. ovata										
Celtis occ									240	1
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra	1		1	1	26		1	45	100	45
Ostrya virg										70
Populus gran										
P. tremul										
Prunus serot		160	22	2	19		23			35
Quercus alba	160 110 130	130 170 220	55 130 160	180 130 130	120 190 130	120 130 300 210	200 150 75	230 150	250	65
Q. ellipsoid										
Q. macrocarpa										
Q. rubra	400								35	
Q. velutina										
Tilia amer										
Ulmus amer								65		
Ulmus fulva										1
	18 19 18 27	9 29 10 20	17 36 16 38	6 10 15 20	10 6 15 12	7 17 16 17	2 22 9 15	15 16 27 33	5 23 30 32	5 11 15 9
Distance	13 20 14 32	13 13 27 20	24 15 25 22	14 8 12 23	18 7 25 24	4 16 10 27	15 21 6 26	17 11 12 11	14 27 7 20	15 7 16 19

16

17

18

19

27 22 25

65%

CI = 1311

1516

	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	453- 530		
Pop. trem.																				
Quercus ellip.																				
Q. macrocarp.																				
Q. velut.													1		2		2	5	5	
Prun. serot.	24	4	4	2	1	1						1						13	12	
Querc. alba	1				2	1	6	5	11	22	10①	8	10	13	24	3		97①	91	
Pop. grand.																				
Carya ovata																				
Querc. rubra				2						1				1	1	2①	2	1	10①	9
Juglans nig.	19	2	5	2	2	2	1		4	1								19	18	
Frax. amer.								1										1	1	
Acer rubrum	1																			
Tilia amer.	1	1			1①	1												3①	3	
Jug. cinerea																				
Ulmus amer.	19				1		2				1							4	4	
Celtis occ.	2													1				1	1	
Ulm. rubra	19																			
Carya cord.	74	5	2															7	7	
Ostrya virg.																				
Acer sacc.																				
	160																		160③	3
Sap CI =	2055																			
Av dist	17																			
Av BA	136.7																			
Trees/acre	150.7																			
Dom/acre	20,992																			
#/acre	160	27.4				19.8			42.4			29.3		18.9	1.4	4.7		151		

1.02 stems/tree

 $+743.7$

Uln. AMER.

Dom. per
scrs

STEMS

O. alba

P. rubra

35%

657.

70 mult. stem free

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Actaea pachypoda 10
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata 15910
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
Athyrum filix-femina 8
Botrychium virginianum 5
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 6810
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 123456789
Claytonia virginiana
Cornus alternifolia 10
C. femina 10
C. rugosa
Corylus americana 2
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 4
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine 29
G. circaezans
G. concinnum 6
G. lanceolatum
G. triflorum
Geranium maculatum 5610
Gerardia grandiflora
Geum canadense 1910
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii 10
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 10
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 246910
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica 1347810
Parthenocissus inserta 2810
Phlox divaricata
Phryma leptostachya 3456789
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 5
R. missouriense
Rosa sp.
Rubus allegheniensis 356710
R. occidentalis
R. strigosus 123610
Sambucus canadensis 13710
Sanguinaria canadensis 10
Sanicula gregaria
S. marilandica
Smilacina racemosa 510
✓ 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 67
V. pubescens
Vitis aestivalis
V. riparia 4
Xanthoxylum americ.
Zizia aurea

Additional species:

Amelanchier sp. 46

- Carya cord 13
- Acer rubrum 4
- Ulmus fulva 59

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 18
Quadrat No.

Actaea pachypoda 13	Eupatorium rugosum	Polygonatum canaliculatum
Adiantum pedatum	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala	Fragaria virginiana	Potentilla simplex
Allium tricoccum	Galium aparine 15 17 19	Prenanthes alba
Amphicarpa braceata 11 12 15 17 18 19 20	G. circaezans	Pteridium aquilinum
Anemone quinquefolia	G. concinnum 11 20	Pyrola elliptica
A. virginiana	G. lanceolatum	Ranunculus abortivus
Anemonella thalictroides	G. triflorum	R. recurvatus
Antennaria sp.	Geranium maculatum 11 14 17 18	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans
Apocynum androsaemifolium	Geum canadense 17 19	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati 14
Aralia nudicaulis	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp.
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis 12 17
Arisaema atrorubens 17	Helianthus strumosus	R. occidentalis 13 19 20
Asarum canadensis	Hepatica acutiloba	R. strigosus 11 12 15 16 18
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis 13
A. sagittifolius 11 17	Hydrastis canadensis	Sanguinaria canadensis 13
A. shortii 19	Hydrophyllum virginianum	Sanicula gregaria
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum	Impatiens capensis	Smilacina racemosa 11 15 17 18 19
Brachyelytrum erectum	I. pallida	S. stellata
Campanula americana	Isopyrum biternatum	Smilax ecirrhata 15
Carex albursina	Lactuca biennis	S. herbacea 18 19
C. pensylvanica	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides	Lathyrus ochroleucus	Solidago altissima
Celastrus scandens	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata 11 12 16 17 18 19	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana	Maianthemum canadensis 20	Thalictrum dioicum
Cornus alternifolia 17	Menispermum canadensis	Tovara virginiana
C. femina 11 14 16 17 18	Mitella diphylla	Trillium cernuum
C. rugosa	Monarda fistulosa	T. flexipes
Corylus americana 15 16	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis 19	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza clayton. 11 13 15 17 18 19	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis 20	Uvularia grandiflora
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica 11 13 19	Viola cucullata 17
Dodecatheon meadia	Parthenocissus inserta 12 13 16	V. pubescens
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 11 12 16 17 18	V. riparia 17 19
Erythronium albidum	Podophyllum peltatum 19 20	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans	Zizia aurea

Additional species:

- Taraxacum sp 11
- Urtica fulva 14
- Carya cord 15 17
- Prunus serot 16 17
- Acer rubrum 16
- Amelanchier 18 20
- Celtis occ. 20
- Aster laterif. 1, 11, 14
- Carex convoluta 11, 17, 19
- Arisema altiss. 10
- Oxalis violac. 10
- Pilea pumila 8, 9, 13, 20

✓ *Actaea pachypoda* 5
 ✓ *Adiantum pedatum*
 ✓ *Agrimonia gryposepala*
 - *Amelanchier* spp. 20
 ✓ *Amphicarpa bracteata* 55
Anemonella thalictroides
Apocynum androsaemifolium
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
 ✓ *Arisaema atrorubens* 5
Aster macrophyllus
 ✓ *A. sagittifolius* 10
 - *A. shortii* 5
 ✓ *Athyrium filix-femina* 5
 - *Botrychium virginianum* 5
Brachyelytrum erectum
Carex albursina
 - *C. convoluta* 15
 ✓ *C. pensylvanica* 15
Caulophyllum thalictroides
 ✓ *Celastrus scandens*
 ✓ *Circaea quadrisulcata* 85
 ✓ *Cornus alternifolia* 10
 ✓ *C. femina* 30
C. rugosa
 ✓ *Corylus americana* 15
 ✓ *Cryptotaenia canadensis* 5
 ✓ *Desmodium glutinosum* 5
D. nudiflorum
 ✓ *Dioscorea villosa*
Eupatorium purpureum
 ✓ *E. rugosum*
Festuca obtusa
 ✓ *Fragaria virginiana*

Additional species:

9
 57
 66
 - *Aster lateriflorus* 15
 - *Ambrosia trifida*
 - *Solidago gigantea*
 - *Trillium gleasoni*
 - *Urtica dioica*
 - *Pilea pumila* 20

- *Acer rubrum* 10
 - *Carya cordif.* 20
 - *Celtis occ.* 5
 - *Prunus serot.* 10
 - *Ulmus rub.* 15

✓ *Galium aparine* 25
G. circaezans
 ✓ *G. concinnum* 15
G. lanceolatum
G. triflorum
 ✓ *Geranium maculatum* 35
 ✓ *Geum canadense* 25
 ✓ *Hackelia virginiana*
 ✓ *Helianthus strumosus*
Hepatica acutiloba
Hydrophyllum virginianum
Hystrix patula
Impatiens biflora
 ✓ *Lactuca biennis* 5
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
 ✓ *Lysimachia quadrifolia* 5
Monarda fistulosa
 ✓ *Osmorhiza claytoni* 60
 ✓ *O. longistylis*
 ✓ *Oxalis violacea* 5
Panicum latifolium
 ✓ *Parietaria pensylvanica* 45
 ✓ *Parthenocissus vitacea* 30
Phlox divaricata
 ✓ *Phryma leptostachya* 80
Podophyllum peltatum
Polemonium reptans
Polygonatum canaliculatum
P. pubescens
Polygonum virginianum
 ✓ *Potentilla simplex*
Prenanthes alba
 ✓ *Prunus virginiana*

- *Heuchera* 5
 - *Cirsium alt.* 5

Pteridium aquilinum
Pyrola elliptica
 ✓ *Ranunculus abortivus*
R. recurvatus
R. septentrionalis
 ✓ *Rhus radicans*
 ✓ *R. cynosbati* 10
R. missouriense
Rosa sp.
 ✓ *Rubus allegheniensis* 35
 ✓ *R. occidentalis* 15
 ✓ *R. strigosus* 50
 ✓ *Sambucus canadensis* 25
 ✓ *Sanguinaria canadensis* 10
 ✓ *Sanicula gregaria*
 ✓ *S. marilandica*
 ✓ *Smilacina racemosa* 35
 ✓ *S. stellata*
 - *Smilax ecirrhata* 10
 ✓ *S. herbacea* 10
Solidago canadensis
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
 ✓ *Triosteum perfoliatum*
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
 ✓ *V. lentago*
V. rafinesquianum
 - *Viola cucullata* 15
V. pubescens
Vitris aestivalis
 - *V. riparia* 15
Zanthoxylum americanum

- *Taraxacum* 5

1516

CJ = 1311

Sap - 2055 + 3

H - 323 + 2

