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<u>STAND #</u>	<u>STAND CHARACTERISTICS</u>	<u>SAMPLES</u>	<u>RESULTS</u>
1072	TREE CI	W.R.C.	73.3
1398	SAP CI	pH	6.4
+326	CI DIFFERENCE	LBS./ACRE CA Mg P K NO_3 NH_3	3000 1200 50 180 3 25
216 ₄₅₅	3 SAPS / ACRE		
239	3 TREES / ACRE	Soil profile	Ao $\frac{1}{8}$ A ₁ 2 silt loam (sand)
70	3 AVE. B.A. STEM		
72	AVE BA TREE	SLOPE	5° S 2 sides, 10-30 acres isolated
17136	DOM. / ACRE	Stump CI	733
462	stems + sps	CUTTING Stumps / ACRE ³	69
246	Stems / ACRE	Spp. cut	QV & Z QMA 18
1.03	2 STEMS / TREE		
2	% mult	AVE. size cut	A.6
68	CANOPY %	AVE. TIME SINCE CUT	2.9

Stumps

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1523

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										
3-3 7.9 4.9 19.2 Quercus alba 69.1			A-4 A-3	A-3 Sp						
Q. ellipsoid							A-2 Sd			
4-4 10.5 6.6 25.6 Q. macrocarpa 25.6	A-3 Sd	A-2 Sd					A-2 Sd			
Q. rubra										
31-54 81.5 88.6 255.2 Q. velutina 638	C-4 R-4 B-5	B-5 A-4 B-4	B-5 C-4 A-4	B-4 A-4 B-4	B-4 B-4 A-4 B-4 Sp	C-4 B-5 A-4 B-2 Sd		A-4 A-4 C-4	A-4 A-4 A-4	A-4 B-3 B-5 P-4
Tilia amer										
Ulmus amer										
Ulmus fulva										
Canopy	55	55	65	65	75	75	80	75	65	70
Distance	6 17 12 34	26 42 11 60	22 14 18 26	4 37 25 28	11 26 12 24	4 26 18 32	24 12 19 32	11 56 21 40	75 25 42 26	17 18 23 30

CI = 732.7

ave.

68%

25.1'

69/oc

1523

POINT RECORD TREES

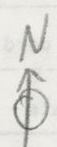
SOUTHERN HARDWOODS

Stand No. 25

STATION NO.	31	2	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		40 35	55		1		105	1		1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra									30	2
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	2	19	2	12	3	12	3	21 60 24	1	60
Quercus alba								27		
Q. ellipsoid										
Q. macrocarpa	13 30	2	1				1	1	28	28
Q. rubra										
Q. velutina	65 60	85	110 110	80 135 115		190 270		105	145	60 80
Tilia amer										
Ulmus amer										
Ulmus fulva			1	1		26 75 65	3 23 35 29	3 35 90 18	2	3
Acer neg		1				1			1	
	17 24 22 7	16 6 20 15	17 18 19 22	13 9 12 18	21 6 14 14	16 24 12 24	3 20 4 25	16 17 30 25	1 27 12 14	12 19 13 25
Distance	7 8 21 21	18 8 11 8	13 9 14 14	7 7 8 13	11 11 6 11	18 8 10 17	8 17 5 15	13 7 8 9	14 17 16 29	6 11 7 16

230

Selective cutting of mostly
Q. velut. Some *Q. mac.* cut.
Very little *Q. alba*



Q. mac. 90 yrs. 100 ft

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 25

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		14	1 26 45 55				85	75	55	
Celtis occ			24			1				
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra				2		40	2 29		1	
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot					15	4 23 13	1		1	2 2
Quercus alba								1		1
Q. ellipsoid										
Q. macrocarpa	75 50 50 110			16				2	1	1 1
Q. rubra										
Q. velutina	1 140 110			95 40	95 135	80 120	160 140	90	150 140 130	
Tilia amer										
Ulmus amer										
Ulmus fulva	3 40	2	4	2				1 13 90 35	1	1
Acer neg		1								
	8 10 7 23	21 13 19 22	16 14 8 17	18 16 11 27	3 8 7 20	6 11 16 18	9 8 11 17	6 19 8 15	13 11 14 24	12 12 15 23
Distance	13 12 12 27	10 3 15 20	11 14 10 22	8 11 9 22	17 18 14 7	6 20 15 20	4 9 12 21	10 32 14 14	8 25 8 25	13 11 14 20

Light 7400

340	240
290	110
340	340
310	200
300	240

Soil A₀ $\frac{1}{8}$ "
 A₁ 2"

Silt loam with little sand

Temp. Soil 19°C - 19.5°C
 Air 25° - 25.5°C

STATION NO.	
Acacia	
A. ...	
B. ...	
C. ...	
D. ...	
E. ...	
F. ...	
G. ...	
H. ...	
I. ...	
J. ...	
K. ...	
L. ...	
M. ...	
N. ...	
O. ...	
P. ...	
Q. ...	
R. ...	
S. ...	
T. ...	
U. ...	
V. ...	
W. ...	
X. ...	
Y. ...	
Z. ...	

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POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 25

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>	55		45		55				40	1
<i>Celtis occ</i>									60	
<i>Crataegus sp.</i>										
<i>Fagus grand</i>										
<i>Fraxinus am</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>				1		1	13	2	110	3
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>		40 26	12	1	24	1	22	50 35	27 12	17 12
<i>Quercus alba</i>										
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>	40 85	1 55	35 70	14	27	20	65 35	1	14	2
<i>Q. rubra</i>										
<i>Q. velutina</i>			180 150	85 140 140	130					1 210 160 130
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>	2	3	3	3	2	17	1	95 110	1	1
<i>Acer neg</i>	1	1								
	7 7 9 18	12 8 21 21	11 19 8 17	3 14 9 18	12 9 9 10	6 18 5 25	10 14 23 15	8 12 10 10	12 13 7 20	20 11 7 35
Distance	5 16 10 12	9 14 9 27	12 14 6 16	16 18 6 7	10 11 8 17	3 16 9 11	6 23 9 13	6 12 9 18	6 15 18 21	16 18 13 29

Several Acer neg. up to 26" B.A., now dead. So they
don't last long

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 25

STATION NO.	1	2	3	4	5	6	7	8	9	30
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>										
<i>C. ovata</i>		100	85	1			1	1	105	13 95
<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>	1	2	14	1	1		20	95		
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>	70	2	40	1	30 20	1	1	2	27	
<i>Quercus alba</i>										
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>	21	1	1	1	35	1	30 40	2	19 18	1
<i>Q. rubra</i>										
<i>Q. velutina</i>	85 210	120			140 145	80	160 115	140	100 70	70 85 90
<i>Tilia amer</i>						120				
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>		85		1	19	1	1	16 14	2	1
<i>Acer neg</i>										2
	8 14 18 18	5 8 9 14	6 8 8 17	8 20 8 25	7 19 24 30	11 20 14 32	12 11 7 21	12 13 17 8	3 9 19 10	6 18 18 6
Distance	18 21 15 20	16 18 8 33	11 15 13 27	11 7 12 20	12 11 22 7	12 11 18 14	12 15 7 15	7 10 9 25	8 14 15 17	16 14 17 16

1523

AVEBA.

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	F. % : Seed	D. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. :	C. I. :	TREE : Stem
Acerrubrum															
A. saccharum															
Carya cord.															Ave. Dist.
C. ovata	16	21	1207	9	9	8.4	5.6	21	94.5	16.2	13.5	10.8	40.5	182.2	Btw'n Trees
Celtis occiden.	1	1	60	1	1	.9	.6	2.2	17.6	1	.6	.5	2.1	16.8	57.5
Fagus grand.															13.5
Fraxinus amer.															14.2
F. lanceolata															Ave. BA
F. pennsylvani															(Total
Juglans cinere															PA ÷ 80)
J. nigra	8	8	351	12	19	11.2	11.9	34.6	218	8.1	5.1	3.1	16.3	102.7	71.7
Ostrya virgin.															69.9
Populus grand.															No. Trees
P. tremuloides															Per acre
Prunus serotin	19	26	747	21	36	19.6	22.5	63.1	227.2	19.2	16.7	6.7	42.6	153.4	239
Quercus alba	1	1	27	3	3	2.8	1.9	7	25.2	1	.6	.2	1.8	6.5	216
Q. ellipsoidalis															Dom. per
Q. macrocarpa	15	26	1023	22	28	20.6	17.5	57.1	57.1	15.2	16.7	9.1	41	41	acre
Q. rubra															17,136.3
Q. velutina	28	55	6720	3	3	2.8	1.9	7	17.5	28.3	35.3	60.1	123.7	309.2	
Tilia american	1	1	120							1	.6	1.1	2.7	19.7	
Ulmus american															
U. rubra	10	17	930	28	52	26.2	32.5	88	721.6	10.1	10.9	8.3	29.3	240.3	
Acer negundo				8	9	7.5	5.6	19.6	19.6						
	99	156	11,185	107	160	100	100	299.6	1398.3	100.1	100	99.9	300	1071.8	

1.03 stems/tree

+ 326.5

	12-22	23-33	34-44	45-55	56-66	67-77	78-88	89-99	100-124	125-149	150-174	175-199	200-249	250-299
CAR. OVATA	2	3	2	7		1	2	1	3					
Celtis occ.					1									
Jug. nigra	3	2	1					1	1					
PR. SEROT.	13	7	3	1	2	1								
Q. ALBA		1												
Q. MAC.	8	5	5	3	1	2	1		1					
Q. VELUT.			1		3	2	8	5	10	15	5	2	3	1
Tilia AMER.									1					
Ulm. FULVA	6	3	4		1	1	1	3	1					
	32	21	16	11	8	7	12	10	17	15	5	2	3	1

117
73.1%

43
26.9%

Quercus } 1 stem/tree

27.6%

CI = 1072

1523

ACER
NEGUNDO

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. 12 9

Q. macrocarp. 38 28

Q. velut. 4 3

Prun. serot. 49 36

Querc. alba 4 3

Pop. grand.

Carya ovata 12 9

Querc. rubra

Juglans nig. 26 19

Frax. amer.

Acer rubrum

Tilia amer.

Jug. cinerea

Ulmus amer.

Celtis occ. 1 1

Ulm. rubra 70 52

Carya cord.

Ostrya virg.

Acer sacc.

160

Sap CI = 1398

Av dist 13.5

Av BA 69.9 (71.7)

Trees/acre 239

Dom/acre 17,136

H/acre 216

87.2

52

65.8

27.5

6.1

239

156 (4)

7

40 26

13 55

40 26 (1) 2

2 1

32 21

12 8

2 1

2 1

26 17 (3) 5

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Rock Co. 1523
NW 23
Stand No. 25
Quadrat No.

Actaea pachypoda	Eupatorium rugosum	Polygonatum canaliculatum 11
Adiantum pedatum	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala	Fragaria virginiana 7812	Potentilla simplex
Allium tricoccum	Galium aparine 3	Prenanthes alba
Amphicarpa braceata 3515	G. circaeans	Pteridium aquilinum
Anemone quinquefolia	G. concinnum	Pyrola elliptica
A. virginiana	G. lanceolatum	Ranunculus abortivus
Anemonella thalictroides	G. triflorum	R. recurvatus
Antennaria sp.	Geranium maculatum 12468911121415	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans 145611
Apocynum androsaemifolium 12	Geum canadense 2456891011121315	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati 23712
Aralia nudicaulis	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp.
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis 578111314
Arisaema atrorubens	Helianthus strumosus 6	R. occidentalis 1256911
Asarum canadensis	Hepatica acutiloba	R. strigosus
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis
A. sagittifolius 12	Hydrastis canadensis	Sanguinaria canadensis
A. shortii	Hydrophyllum virginianum	Sanicula gregaria 15
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum 146912	Impatiens capensis	Smilacina racemosa 35671013
Brachyelytrum erectum	I. pallida	S. stellata 6
Campanula americana	Isopyrum biternatum	Smilax ecirrhata
Carex albursina	Lactuca biennis 4912	S. herbacea
C. pensylvanica 2346812	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides	Lathyrus ochroleucus	Solidago altissima
Celastrus scandens 21114	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata 123456781011	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana 12131415	Maianthemum canadensis	Thalictrum dioicum
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina 1345678101112131415	Mitella diphylla	Trillium cernuum
C. rugosa	Monarda fistulosa	T. flexipes
Corylus americana 10	Orchis spectabilis	T. grandiflorum
✓ Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza claytonii	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis 11	Uvularia grandiflora
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum 171115	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica	Viola cucullata
Dodecatheon meadia	Parthenocissus inserta 123456789101112131415	V. pubescens
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 1234589101112131415	V. riparia 4815
Erythronium albidum	Podophyllum peltatum	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans	Zizia aurea

Additional species:

- Quercus velut 112
- Poa pratensis 1
- Taraxacum 2

- Carya ovata 3689
- Ulmus fulva 3456781315
- Rhamnus 35715
- Prunus serotina 678
- Anemone 613
- Acer neg. 13

SOUTHERN UPLAND HARDWOODS

Presence

1523

1523

- | | | |
|-------------------------------|-------------------------------|---------------------------|
| Actaea pachypoda | ✓ Galium aparine 10 | Pteridium aquilinum |
| Adiantum pedatum | ✓ G. circaeazans | Pyrola elliptica |
| Agrimonia gryposepala | ✓ G. concinnum | Ranunculus abortivus |
| ✓ Amelanchier spp. 10 | G. lanceolatum | R. recurvatus |
| ✓ Amphicarpa bracteata 15 | G. triflorum | R. septentrionalis |
| Anemonella thalictroides | ✓ Geranium maculatum 70 | ✓ Rhus radicans 40 |
| ✓ Apocynum androsaemifolium 5 | ✓ Geum canadense 60 | ✓ R. cynosbati 20 |
| Aralia nudicaulis | ✓ Hackelia virginiana | R. missouriense |
| A. racemosa | ✓ Helianthus strumosus 5 | ✓ Rosa sp. |
| Arenaria lateriflora | Hepatica acutiloba | ✓ Rubus allegheniensis 45 |
| ✓ Arisaema atrorubens | Hydrophyllum virginianum | ✓ R. occidentalis 30 |
| Aster macrophyllus | Hystrix patula | R. strigosus |
| ✓ A. sagittifolius 10 | Impatiens biflora | Sambucus canadensis |
| A. shortii | ✓ Lactuca biennis 15 | Sanguinaria canadensis |
| Athyrium filix-femina | Laportea canadensis | ✓ Sanicula gregaria 5 |
| ✓ Botrychium virginianum 30 | Lathyrus ochroleucus | S. marilandica |
| Brachyelytrum erectum | Lonicera prolifera | ✓ Smilacina racemosa 40 |
| Carex albursina | Lysimachia quadrifolia | ✓ S. stellata 5 |
| C. convoluta | Monarda fistulosa | ✓ Smilax ecirrhata |
| ✓ C. pennsylvanica 35 | ✓ Osmorhiza claytoni 5 | S. herbacea |
| Caulophyllum thalictroides | ✓ O. longistylis 10 | Solidago canadensis |
| ✓ Celastrus scandens 20 | Oxalis violacea | S. flexicaulis |
| ✓ Circaea quadrisulcata 95 | Panicum latifolium | S. ulmifolia |
| Cornus alternifolia | ✓ Parietaria pennsylvanica | Thalictrum dioicum |
| ✓ C. femina 85 | ✓ Parthenocissus vitacea 100 | Triosteum perfoliatum |
| C. rugosa | Phlox divaricata | Uvularia grandiflora |
| ✓ Corylus americana 5 | ✓ Phryma leptostachya 85 | Veronicastrum virginicum |
| ✓ Cryptotaenia canadensis | Podophyllum peltatum | Viburnum acerifolium |
| ✓ Desmodium glutinosum 25 | Polemonium reptans | V. lentago |
| D. nudiflorum | ✓ Polygonatum canaliculatum 5 | V. rafinesquianum |
| Dioscorea villosa | P. pubescens | ✓ Viola cucullata |
| Eupatorium purpureum | Polygonum virginianum | V. pubescens |
| E. rugosum | Potentilla simplex | Vitris aestivalis |
| Festuca obtusa | ✓ Prenanthes alba | ✓ V. riparia 15 |
| ✓ Fragaria virginiana 15 | ✓ Prunus virginiana | Zanthoxylum americanum |

Additional species:

- Asparagus officinalis

- Carya ovata 35

- Acer neg 5

- Prunus serot 30

- Q. Alba 5

- Q. Velut 20

- Ulmus rubra 55

- Poa pratensis 5

- Rhamnus catharticus 20

- Xanthium strumarium

- Silene stellata

- Taraxacum 5

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 25
Quadrat No.

Page 2

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
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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 2
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica 2
Caulophyllum thalictroides
Celastrus scandens 2
Circaea quadrisulcata 12345
Claytonia virginiana
Cornus alternifolia
C. femina 1234
C. rugosa
Corylus americana
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 |
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum 2345
Gerardia grandiflora
Geum canadense 5
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. 25
O. longistylis 5
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 12345
Phlox divaricata
Phryma leptostachya 2345
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 345
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis 245
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa 34
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:

Quercus velut 24
Q. alba 4
Prunus sept 124
Ulmus fulva 123
Carya ovata 145

1523

CI=1072

Sap 1398 + 1

H- 246 S

