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1551 Stand #

Clear

Stand # 1551

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1551

STATION NO.	1	2	3	4	5	6	7	8	9	20
Acer rubrum										
A. saccharum	13	76	37 16	16	210	93	18	47 165	132 257	245
Betula papy.									Stop	
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										17 17
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg			136 101	45 64			2		45 52	
Populus gran										
P. tremul										
Prunus serot	12							13		
Quercus alba										
Q. ellipsoid										
Q. macrocarpa										
Q. rubra					180 50					
Q. velutina										
Tilia amer	13 46	67 22 25	28 61		24 Stop				25 77 87	
Ulmus amer										
Ulmus fulva		37 38 96			54	48 81 74	50 53 41	21		
		3146								
	6 11 12 13	10 12 20 25	15 12 22 24	22 22 18 29	27 25 20 30	18 16 17 11	6 21 15 32	18 8 28 22	17 16 25 33	4 26 25 28
Distance	6 7 10 13	7 19 18 23	15 16 6 8	3 11 10 10	25 24 13 7	5 11 15 11	17 7 13 19	13 11 8 13	14 6 24 19	10 20 7 25

75

95

95

95

45

+3
dead

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1551

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i> <i>stump</i>	22									16
<i>A. saccharum</i> <i>stump</i>	(20+3) 2		(13+2) 2	128 3			179 2	1		(34) 70+3
<i>Betula papy.</i>										
<i>Carpinus car.</i>										
<i>Carya cord.</i>									23	
<i>C. ovata</i>										
<i>Celtis occ.</i>										
<i>Crataegus sp.</i>										
<i>Fagus grand.</i>										
<i>Fraxinus am.</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										(30) 33
<i>J. nigra</i>					13 15		(22) 32	18 3		
<i>Ostrya virg.</i>	1	1	1		23 35	4 70 60 34	2 60 60	24		
<i>Populus gran.</i>										
<i>P. tremul.</i>										
<i>Prunus serot.</i>		27		23					19	
<i>Quercus alba</i>										
<i>Q. ellipsoid.</i>										
<i>Q. macrocarpa</i>										
<i>Q. rubra</i>		22 62	1					140 49 55		
<i>Q. velutina</i>	<i>stump</i> 65 20	<i>stump</i> 76	(37 37 21) 27 37 35			(39 35) 28 32 30 21				(13 24) 50 32 39 46
<i>Tilia amer.</i>	28 29 39	35 19	29 45 37 27 18					19		17 20 48
<i>Ulmus amer.</i>			46 12					50		
<i>Ulmus fulva</i>	94		44	17 30			(51) 41 32			
	10 12 9 30	12 9 8 19	16 13 20 28	15 5 18 15	12 23 22 29	7 7 13 17	13 19 14 33	5 16 15 23	8 14 13 20	17 29 11 19
Distance	11 13 16 24	2 9 11 18	9 11 11 16	2 12 6 24	6 10 7 12	12 16 23 13	14 11 10 24	7 18 13 18	4 6 9 19	12 18 13 13

50

75

100

75

55

Nearly clear cut, ^{along road, back in less cut.} ~~sp.~~ of *Tilia* + *Acer*.
 Bees across road, *Tilia* for hives? Lots of *Ostrya*, it wasn't cut.
Tilia splits profusely, grow fast, termites + rot weaken base of
 stump splits, tip over soon. Lean way out when growing

Tilia splits around edges,

at least 1 maple, split from top of stump (cambium)
 sort of swan. stump + stump rotted out leaving
 hollow base.



old rotted stump
 tree

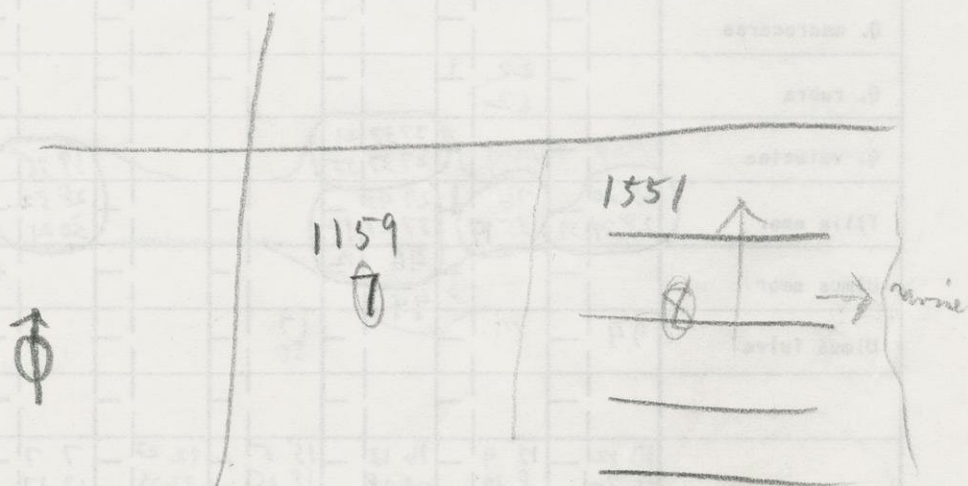
Slip elm stump 28 yrs

Tilia 4" core 23 yrs. (BA = 75)

Acer 21 BA 2" core = 23 yrs.

$$A_0 = \frac{1}{4} - \frac{3}{4}''$$

$A_1 = 3 - 4''$ Lilt loam



Ave B.A. 1551

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. Pts. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	F. % : Seed	D. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. :	C. I. :	TREE :	STEM :
Acerrubrum			(23)													
A. saccharum	15	20	1727	19	50	46.3	62.5	163.2	1632	27.8	25	26.7	79.5	795	86.3	75.1
Carya cord.	1	1	23	2	2	4.9	2.5	11.1	95.5	1.9	1.2	.4	3.5	30.1	23	23
C. ovata																
Celtis occiden.	1	2	34	2	2	4.9	2.5	11.1	88.8	1.9	2.5	.5	4.9	39.2	17	17
Fagus grand.																
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere	1	1	(2) 63	14	22					1.9	1.2	1.0	4.1	31.2	63	63
J. nigra																
Ostrya virgin.	7	16	(15) 799	14	22	34.1	27.5	92.4	803.9	13	20	12.4	45.4	395	49.9	44.4
Populus grand.																
P. tremuloides																
Prunus serotin	5	5	94							9.3	6.2	1.5	17	61.2	18.8	18.8
Quercus alba																
Q. ellipsoidalis																
Q. macrocarpa																
Q. rubra	3	5	(5) 588	1	1	2.4	1.3	5.5	30.8	5.6	6.2	9.1	20.9	117	117.6	84
Q. velutina			(52)													
Tilia american	11	14	2107	3	3	7.3	3.7	16.5	120.5	20.4	17.5	32.6	70.5	514.6	150.5	37
Ulmus american	2	2	94							3.7	2.5	1.5	7.7	35.4	47	47
U. rubra	8	14	(14) 935							14.8	17.5	14.5	46.8	383.8	66.8	49.2
			(136)													
	54	80	6464	41	80	99.9	100	299.8	2771.5	100.3	99.8	100.2	300.3	2402.5		

1.7 stems/tree
Canopy 76%

+ 369

1551
CI = 2402

	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.																		
Q. macrocarp.																		
Q. velut.																		
Prun. serot.		3	2															17 5
Querc. alba																		
Pop. grand.																		
Carya ovata																		
Querc. rubra	2	1	1			1		10			1		10					17 5 2 7
Juglans nig.																		
Frax. amer.																		
Acer rubrum																		
Tilia amer.	5	3	2	1		3 11	3 14	4 16	1 2									47 14 43 142
Jug. cinerea					1 1													3 1 1 3
Ulmus amer.					2													7 2
Celtis occ.	4	2	2															7 2
Ulm. rubra		1	1	1	4 10	3 2	1	2	1 2									47 14 5 17
Carya cord.	4	2	1															3 1
Ostrya virg.	39	22	2	2	4 10	1	4 10	2	1									52 16 2 7
Acer sacc.	88	50	4	3	1 10	2	2 2	1	1	2		1	1	2				66 20 3 10
		80																80 56 186

Sap CI = 2771

#/acre

142

106.6

106.6

33.3

13.3

6.7

266

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 1551
Quadrat No.

IN 9E NW 9

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora 4
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii 347
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina 1346789
C. pennsylvanica 1234579
Caulophyllum thalictroides
Celastrus scandens 6
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cyripedium 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. circaezans
G. concinnum 3
G. lanceolatum
G. triflorum
Geranium maculatum 12610
Gerardia grandiflora
Geum canadense 10
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum 45678
✓ Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Loniceria 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 1346789
Phlox divaricata 14679
Phryma leptostachya
Podophyllum peltatum 6
Polemonium reptans

Polygonatum canaliculatum 2
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus 4
R. recurvatus
R. septentrionalis
Rhus radicans 710
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis 123678
Sanicula gregaria 7
10 S. marilandica
Smilacina racemosa 23
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis 457
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 1245
V. pubescens
10 Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Ulmus rub 25

Acer sacc. 1234578 Tilia 5

Celtis occ 1

Castanea 12489
Carya cord 1810

SOUTHERN UPLAND HARDWOODS

Actaea pachypoda	Galium aparine	Pteridium aquilinum
Adiantum pedatum	G. circaezans	Pyrola elliptica
Agrimonia gryposepala	✓ G. concinnum 25	✓ Ranunculus abortivus 5
Amelanchier spp.	G. lanceolatum	✓ R. recurvatus 15
Amphicarpa bracteata	G. triflorum	R. septentrionalis
Anemonella thalictroides	✓ Geranium maculatum 45	✓ Rhus radicans 10
Apocynum androsaemifolium	✓ Geum canadense 10	R. cynosbati
Aralia nudicaulis	Hackelia virginiana	R. missouriense
A. racemosa	Helianthus strumosus	Rosa sp.
✓ Arenaria lateriflora 5	Hepatica acutiloba	Rubus allegheniensis
Arisaema atrorubens	✓ Hydrophyllum virginianum 75	R. occidentalis
Aster macrophyllus	✓ Hystrix patula	R. strigosus
✓ A. sagittifolius 5	Impatiens biflora 7	Sambucus canadensis
✓ A. shortii 30	Lactuca biennis	✓ Sanguinaria canadensis 45
Athyrium filix-femina	Laportea canadensis	✓ Sanicula gregaria 15
✓ Botrychium virginianum 5	Lathyrus ochroleucus	S. marilandica
Brachyelytrum erectum	Lonicera prolifera	✓ Smilacina racemosa 15
Carex albursina	Lysimachia quadrifolia	S. stellata
✓ C. convoluta 75	Monarda fistulosa	Smilax ecirrhata
✓ C. pensylvanica 75	✓ Osmorhiza claytoni 10	S. herbacea
Caulophyllum thalictroides	O. longistylis	Solidago canadensis
✓ Celastrus scandens 5	Oxalis violacea 7	✓ S. flexicaulis 30
Circaea quadrisulcata 15	Panicum latifolium	S. ulmifolia
Cornus alternifolia	Parietaria pensylvanica	Thalictrum dioicum
C. femina	✓ Parthenocissus vitacea 85	Triosteum perfoliatum
C. rugosa	✓ Phlox divaricata 55	✓ Uvularia grandiflora 5
Corylus americana	Phryma leptostachya 4	Veronicastrum virginicum
Cryptotaenia canadensis	✓ Podophyllum peltatum 5	Viburnum acerifolium
Desmodium glutinosum	Polemonium reptans	V. lentago
D. nudiflorum	✓ Polygonatum canaliculatum 5	V. rafinesquianum
Dioscorea villosa	P. pubescens	✓ Viola cucullata 65
Eupatorium purpureum	Polygonum virginianum	V. pubescens 9
E. rugosum	Potentilla simplex	Vitris aestivalis
Festuca obtusa	Prenanthes alba	V. riparia
Fragaria virginiana	✓ Prunus virginiana 10	Zanthoxylum americanum

Additional species:

- 27
2
29
- Aster laterif. 5
- Bromus 30

- Acer sacc 90
- Carya cord 25
- Celtis 5
- Jug cin 5
- Ostrea 35
- Prun serot. 10
- Tilia 5
- Ulmus rub 10

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 1551
Quadrat No.

Page 2

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A. racemosa
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Arisaema atrorubens
Asarum canadensis
Aster macrophyllus 457
A. sagittifolius 3
A. shortii 1510
Athyrum filix-femina
Botrychium virginianum 8
Brachyelytrum erectum
Campanula americana
Carex albursina 123467810
C. pensylvanica 145678910
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Dryopteris spinulosa
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Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans 67810
G. concinnum 67810
G. lanceolatum
G. triflorum
Geranium maculatum 456810
Gerardia grandiflora
Geum canadense 7
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum 12345
Hystrix patula 6789
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. 28
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 123456
Phlox divaricata 5678910
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus 258
R. septentrionalis 25
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis 3710
Sanicula gregaria 25
S. marilandica
Smilacina racemosa 7
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis 457
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora 10
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata 1234578910
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Acer sac. 1235678
Prunus serot 34
Carya cod 37
Ostrya 35

Prunus virg 48
Juglans cin. 9

Bromus 1234510
Aster lateriflorus 4

1551

CI = 2402

Sap - 2771 + 1

H - 357 - 1

750

550

350

250

150

100

50

25

1

4

7

10

13

16

19

22

α

