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Stand # 1539

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1539

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord						15 20		2		
C. ovata		2	3	3	4		1		2	1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
✓ Populus gran										
P. tremul										
Prunus serot	23	4	17+1	112+2	18+1		1	1		
Quercus alba	33 20 26+2 (34) 21+2	14 33	117+3	1 26 1 13 37 12			2 15 16 17 32 1 22 14	34 25 28 25	23 25 24 26 15 22 14+1	1 23 12 1 40 1 27
Q. ellipsoid				12 12+1						
Q. macrocarpa					13+1			1		1
Q. rubra			16 13		2	26 24 35 15				
Q. velutina	32 17+1 25 19 30+1	19 26 16 12			18	28 40+1 22 32 45	1 50		28	1
Tilia amer										
Ulmus amer								16+3		
Ulmus fulva										
	15 22 16 14	14 5 15 20	2 11 3 30	11 6 3 9	7 3 7 10	5 7 7 11	9 13 24 20	17 22 11 14	25 26 25 17	6 14 7 18
Distance	5 6 6 32	6 20 16 25	7 12 9 17	17 8 6 8	6 13 7 14	7 9 17 11	6 19 7 20	17 6 7 29	8 12 10 16	4 8 10 14

50

75

55

55

70

P. sent safe dying.

C. ovata living. ∴ C. ov. in preponderance.

Station No.	1	2	3	4	5	6	7	8	9	10
1. <i>P. sent</i>										
2. <i>C. ovata</i>										
3. <i>C. ovata</i>										
4. <i>C. ovata</i>										
5. <i>C. ovata</i>										
6. <i>C. ovata</i>										
7. <i>C. ovata</i>										
8. <i>C. ovata</i>										
9. <i>C. ovata</i>										
10. <i>C. ovata</i>										
11. <i>C. ovata</i>										
12. <i>C. ovata</i>										
13. <i>C. ovata</i>										
14. <i>C. ovata</i>										
15. <i>C. ovata</i>										
16. <i>C. ovata</i>										
17. <i>C. ovata</i>										
18. <i>C. ovata</i>										
19. <i>C. ovata</i>										
20. <i>C. ovata</i>										
21. <i>C. ovata</i>										
22. <i>C. ovata</i>										
23. <i>C. ovata</i>										
24. <i>C. ovata</i>										
25. <i>C. ovata</i>										
26. <i>C. ovata</i>										
27. <i>C. ovata</i>										
28. <i>C. ovata</i>										
29. <i>C. ovata</i>										
30. <i>C. ovata</i>										
31. <i>C. ovata</i>										
32. <i>C. ovata</i>										
33. <i>C. ovata</i>										
34. <i>C. ovata</i>										
35. <i>C. ovata</i>										
36. <i>C. ovata</i>										
37. <i>C. ovata</i>										
38. <i>C. ovata</i>										
39. <i>C. ovata</i>										
40. <i>C. ovata</i>										
41. <i>C. ovata</i>										
42. <i>C. ovata</i>										
43. <i>C. ovata</i>										
44. <i>C. ovata</i>										
45. <i>C. ovata</i>										
46. <i>C. ovata</i>										
47. <i>C. ovata</i>										
48. <i>C. ovata</i>										
49. <i>C. ovata</i>										
50. <i>C. ovata</i>										

POINT RECORD - 1882

SOUTHERN HARDWOODS

STATION NO.

DATE

PLANT SOCIETY

STATION NO.

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1539

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>	1									
<i>C. ovata</i>			1	2				2	1	12 2
<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>										
<i>Ostrya virg.</i>										
<i>Populus gran.</i>		2		27						
<i>P. tremul.</i>										
<i>Prunus serot.</i>	22		(17+1)			21 19 15 12		(17+1)	3	2
<i>Quercus alba</i>		(32 27) (38+1) 25	(13+1)	2 26 15 18	(36 22) (26) (35 27) (36+1)	1 26 1	(19+2) (18 26)	(13 19) (15)	(22 22) (14 12 23)	37 (15+1)
<i>Q. ellipsoid.</i>									(23+1)	
<i>Q. macrocarpa</i>	2	1	(1)			27	1			
<i>Q. rubra</i>			(18 21)							
<i>Q. velutina</i>	(69) (58)	(15+1) (20 15)	(47 18) (25 18)	(22 13) (13 12+2)	(23 24) (35)	(37) (47)	(41) (16 12)	(29+1)	(30) (27)	(16) (31+1)
<i>Tilia amer.</i>										
<i>Ulmus amer.</i>										
<i>Ulmus fulva</i>										
	12 11 12 13	6 14 13 16	16 14 13 17	16 7 9 30	2 14 3 18	12 17 14 18	17 8 7 12	6 11 13 19	6 7 13 9	12 15 9 9
Distance	5 9 7 13	4 6 5 11	11 13 11 7	19 10 15 11	8 10 9 10	8 7 7 20	13 16 8 22	9 21 15 17	5 7 21 19	14 10 15 8
	50		55		60		58		65	

cut
longer

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1539

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i>	(12 18) +7									
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>	1		1	1	2			1		17
<i>C. ovata</i>	1						23	(1)	26	2 3
<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>										
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>		(14+1) 2 (1)		(14+1) (20)	12	(16) (13)		(1) 18 21 +1		1
<i>Quercus alba</i>	(19 12+1) (23 30)	(20 12+1) (13 17)	42 (16)	2 (17+2) (1)	(1) 16	(14 20) (12 13)	3 (15 18) (18+1) (15)	(1) 24 (18 12+1)	13	
<i>Q. ellipsoid</i>	(13+1)	(12+1)	(12+1)					(25)	(1)	
<i>Q. macrocarpa</i>										
<i>Q. rubra</i>										
<i>Q. velutina</i>	(1)	(28 13) +2	(20 28) (30)	(39 19) (36+1)	(21 18) (20+1)	(13)	(20+1) (27) (22 39) (30 14 16)		(18) (39 25) (15+1)	
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>										
	11 6 17 4	17 12 12 5	5 8 7 10	7 14 7 14	5 13 8 25	3 11 18 20	16 8 16 18	4 18 15 23	14 15 17 9	6 10 14 7
Distance	7 14 9 22	11 13 12 21	6 5 8 18	7 21 5 19	14 17 14 8	23 9 8 12	15 11 16 21	12 22 13 7	3 11 8 12	9 13 4 7
	20	55	70	70	60					

Soil A₀ $\frac{1}{4}$ "

A₁ 2" silt loam

1.6 x 9 = 30.4
4.1 x 2 = 8.2
72.2

1539

CI = 1000

	Sap. 11	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.	22	9	1	1														5	2
Q. velut.	14	6	7	4	12	9	9	13	9	13		1	0					98	38 (40) 103
Prun. serot.	67	28	11	0	7	0												47	18 (8) 21
Querc. alba	72	30	23	9	13	14	14	12	20		1							137	53 (36) 94
Pop. grand.	5	2		1														3	1
Carya ovata	79	33	1	3														10	4
Querc. rubra																			
Juglans nig.																			
Frax. amer.																			
Acer rubrum			10															3	10 3
Tilia amer.																			
Jug. cinerea																			
Ulmus amer.			1															3	1
Celtis occ.																			
Ulm. rubra																			
Carya cord.	29	12	2	0														5	20 3
Ostrya virg.																			
Acer sacc.																			

120

Sap CI = 1212

120 (86)

224

#/acre

288

277.1

337

311

Tree	No. : No. :			No. Pts. : No. :		F. % : D. % :		F. % : D. % :		Dom. % :		F. % : D. % :		Dom. % :		F. % : D. % :		Dom. % :	
	Pts.	Tr.	Dom.	Sap.	Sap.	Sap.	Sap.	Seed	Seed	Tr.	Tr.	Trees	I.I.	C.I.	Tr.	Tr.	Trees	I.I.	C.I.
Acerrubrum	1	1	30							1.3	.8	.6	2.7	18.9	30	15			
A. saccharum																			
Carya cord.	2	2	52	8	12	10.5	10.0	30.7	264.0	2.7	1.7	1.1	5.5	47.4	26	17.3			
C. ovata	4	4	76	17	33	22.4	27.5	74.8	336.6	5.3	3.3	1.6	10.2	45.9	19	19			
Celtis occiden.																			
Fagus grand.																			
Fraxinus amer.																			
F. lanceolata																			
F. pennsylvani																			
Juglans cinere																			
J. nigra																			
Ostrya virgin.																			
Populus grand.	1	1	27	1	2	1.3	1.7	4.6	19.8	1.3	.8	.6	2.7	11.7	27	27			
P. tremuloides																			
Prunus serotin	14	18	467	15	28	19.7	23.3	64.5	232.2	18.7	15.0	10.1	43.8	157.9	25.9	18			
Quercus alba	26	53	946	21	30	27.6	25.0	78.9	284	34.7	44.2	41.9	120.8	435.1	36.7	21.9			
Q. ellipsoidalis																			
Q. macrocarpa	2	2	40	8	9	10.5	7.5	27.1	27.1	2.7	1.7	.9	5.3	5.3	20	20			
Q. rubra																			
Q. velutina	24	38	1990	6	6	7.9	5.0	19.4	48.5	32.0	31.7	42.9	106.6	266.3	52.4	25.5			
Tilia american																			
Ulmus american	1	1	16							1.3	.8	.3	2.4	11.1	16	16			
U. rubra																			
	75	120	4644	76	120	99.9	100	300	1212.2	100	100	100	300	999.6					

1.72 stems/tree

Canopy 57.7%

+212.6

stems	1	2	3	4	5	Total	singles	mult.	trees	stem	% mult.	st/t.	mult	stems	stems/tree	#	% st.	% mult.
<i>Q. alba</i>	28	16	7	2		53	28	25	53	89	47.2	1.68	25	61	2.44	41	77.4	61
<i>Q. mac</i>	2					2	2	0	2	2	0	1				1	50	0
<i>Q. velut.</i>	14	12	9	2	1	38	14	24	38	78	63.2	2.05	24	64	2.67	35	92.1	68.6
							44	49	93	169	52.7	1.82	49	125	2.55			
No <i>Q. mac</i>							42	49	91	167	53.8	1.84						

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 1539
Quadrat No.

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala 6
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium 20
Aquilegia canadensis
✓ Aralia nudicaulis 5678
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius 129 13 16
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
✓ Carex albursina
C. pensylvanica 11 13 14 15 18 19
Caulophyllum thalictroides
Celastrus scandens 17
Circaea quadrisulcata 34 67 9 10 13 14 17 18
Claytonia virginiana
✓ Cornus alternifolia
C. femina 134 68 9 11 12 13 14 16 17
C. rugosa
✓ Corylus americana 34 69 19 20
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 134 5 15 16 17 20
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

✓ Eupatorium rugosum 679 11
Festuca obtusa
Fragaria virginiana 314 19
Galium aparine 356 79 12 13 18 19
G. circaezans 23 15
G. concinnum 13 12 13 14
G. lanceolatum
G. triflorum
Geranium maculatum 36 11 16 18 19
Gerardia grandiflora
Geum canadense 24 10 12 20
Goodyera pubescens
Habenaria bracteata
Hackelia virginica 15
Hamamelis virginiana
Helianthus strumosus 12 39 10 12 14 15
Hepatica acutiloba 20 18 16
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia 23
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 236 9 12 14 19 20
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica 20 19 15 17 14 13
Parthenocissus inserta 123 45 67 8 10 11
Phlox divaricata
Phryma leptostachya 123 4 6 8 10 11 14 15
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum 78
Polygonatum pubescens
Potentilla simplex 12 20
Prenanthes alba
✓ Pteridium aquilinum 34 10 11 12 20
Pyrola elliptica 3
Ranunculus abortivus 12
R. recurvatus
R. septentrionalis 78
Rhus radicans 25 79 12 14 15 16 17 20
Ribes americanum
R. cynosbati 57 8 18
R. missouriense
✓ Rosa sp. 14 18
Rubus allegheniensis 19 10 18 20
R. occidentalis 6
R. strigosus 6 10 14 15 16 20
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 13 4 11 13
S. marilandica
Smilacina racemosa 24 5 7 10 12 13 14 15
S. stellata 20 19 18 17 16
Smilax ecirrhata 17
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis 9 10
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 4 12 18
Xanthoxylum americ.
Zizia aurea 7

✓ Diervilla lonicera 10

Aster lateriflorus 2

Ambrosia trifida 2

✓ Monarda

✓ Vitis acerifolia 6 7 19

Taraxacum 37

Poa comp 34 9 13 16 19

Additional species:

Pinus 18 20

Prunus 13 5 18 19 20

P. v. 3 18 20

Quercus 17

Carya cord 9 15 19

- Actaea pachypoda
 Adiantum pedatum
 Agrimonia gryposepala 5
 Amelanchier spp.
 Amphicarpa bracteata 5
 Anemonella thalictroides
 Apocynum androsaemifolium 5
 Aralia nudicaulis 20
 A. racemosa
 Arenaria lateriflora
 Arisaema atrorubens
 Aster macrophyllus
 A. sagittifolius 25
 A. shortii
 Athyrium filix-femina
 Botrychium virginianum 5
 Brachyelytrum erectum
 Carex albursina
 C. convoluta
 C. pensylvanica 35
 Caulophyllum thalictroides
 Celastrus scandens 5
 Circaea quadrisulcata 50
 Cornus alternifolia
 C. femina 60
 C. rugosa
 Corylus americana 30
 Cryptotaenia canadensis
 Desmodium glutinosum 40
 D. nudiflorum
 Dioscorea villosa
 Eupatorium purpureum
 E. rugosum 20
 Festuca obtusa
 Fragaria virginiana 15
 Galium aparine 45
 G. circaezans 15
 G. concinnum 25
 G. lanceolatum
 G. triflorum
 Geranium maculatum 30
 Geum canadense 25
 Hackelia virginiana 5
 Helianthus strumosus 55
 Hepatica acutiloba
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens biflora
 Lactuca biennis
 Laportea canadensis
 Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia 10
 Monarda fistulosa
 Osmorhiza claytoni 40
 O. longistylis
 Oxalis violacea
 Panicum latifolium
 Parietaria pensylvanica
 Parthenocissus vitacea 80
 Phlox divaricata
 Phryma leptostachya 65
 Podophyllum peltatum
 Polemonium reptans
 Polygonatum canaliculatum 10
 P. pubescens
 Polygonum virginianum
 Potentilla simplex 15
 Prenanthes alba
 Prunus virginiana 15
 Pteridium aquilinum 30
 Pyrola elliptica 5
 Ranunculus abortivus 5
 R. recurvatus
 R. septentrionalis 10
 Rhus radicans 50
 R. cynosbati 25
 R. missouriense
 Rosa sp 10
 Rubus allegheniensis 25
 R. occidentalis
 R. strigosus 30
 Sambucus canadensis
 Sanguinaria canadensis
 Sanicula gregaria 25
 S. marilandica
 Smilacina racemosa 70
 S. stellata
 Smilax ecirrhata 5
 S. herbacea
 Solidago canadensis
 S. flexicaulis 10
 S. ulmifolia
 Thalictrum dioicum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virginicum
 Viburnum acerifolium
 V. lentago 15
 V. rafinesquianum
 Viola cucullata 5
 V. pubescens
 Vitris aestivalis
 V. riparia 15
 Zanthoxylum americanum

Additional species:

- Aster laterif. 5
 - Ambrosia trifida 5
 - Diervilla laevis 5

- Monotropa unif. 5
 - Poa comp. 30

- Zigia 5
 - Taraxacum 10

- Acer neg. 5
 - Cana cord 15
 - C. ovata 5
 - Ostya 5
 - Pop grand 5
 - Prun. serot. 30
 - Q. velut 15
 - Ulmus 25

$$\begin{array}{r} 2 \times 19.7 = 39.4 \\ 23.3 \\ \hline 62.7 \end{array}$$
$$\begin{array}{r} 2 \times 23.3 = 46.6 \\ 19.7 \\ \hline 66.3 \end{array}$$
$$\begin{array}{r} 64.5 \\ 2 \overline{) 129.0} \end{array}$$
$$\sqrt{2/129.0}$$

1539

CI = 1,000

Sap - 1212 S

H - 261 +1

750

550

350

250

150

100

50

25

1

4

7

10

13

16

19

22

25

