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Stumps

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1504

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 3.4 12.0 J. nigra 75.6								A-5 T55	A-5 T26 +1T	
Ostrya virg										
Populus gran										
P. tremul								A-5 SP		
16.3 15.2 47.0 Prunus serot 169.2	B-5 +23 +2T	A-5		A-5 T35				A-5 25p	A-5 T25	B-5 25p
7 6.8 21.3 Quercus alba 76.7	A-3		B-4				A-5 T19+1T			
Q. ellipsoid										
Q. macrocarpa										
72.2 74.4 219.7 Q. rubra 1013.6 181	A-3 25p	A-5 +28	C-4 B-4 T16	B-4 T16	A-5 T23	A-5 T65+2T	A-5 T30	A-5 SP	B-4 T40 +2T	B-5 T35 +3T
38.7 Q. velutina 96.7	B-4 T18+2T	A-5 T30	T22+2T	A-5 T28	A-5 SP	A-4	B-4 T48 +2T			A-5 T30 +1T
Tilia amer		A-5 T22+2T	+1T	+1T						
Ulmus amer										
Ulmus fulva										
Canopy	65	80	75	70	70	75	70	75	70	75
Distance	13 3 18 18	11 13 9 19	14 15 10 27	14 23 21 8	17 7 16 16	3 15 13 31	11 15 18 16	6 12 10 23	6 12 7 14	9 21 13 24

CI = 1431.8

213/ac.

Station No.

A. saccharum

Betula papyr.

Corylus cor.

Corylus sp.

C. ovata

Coffea occ.

Crataegus sp.

Fagus grand.

Fraxinus am.

I. nigra

Juglans cin.

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra

L. nigra



Part of stump visible.
Tree has nearly covered it with.

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 5

STATION NO.	1	2	3	4	5	6	7	8	9	10												
Acer rubrum																						
A. saccharum																						
Betula papy.																						
Carpinus car																						
Carya cord	1	1	1	1	2	13	2	27	1	19	3	1	2									
C. ovata										21												
Celtis occ																						
Crataegus sp.									1													
Fagus grand																						
Fraxinus am																						
F. nigra																						
Juglans cin.																						
J. nigra						45			35													
Ostrya virg				1					19				25									
Populus gran		25	15	85	55					50	1											
			90	85	20	65				(25 15)												
P. tremul																						
Prunus serot	27	1	2					1	45	85												
Quercus alba	3	1		1	1		28					110										
Q. ellipsoid																						
Q. macrocarpa			23																			
Q. rubra	60	13	70	1	60	13	55	19	1	16	35	2	17	2	14	1						
	15	75	90	70	13	13	15	45	35	16	13	20	1									
Q. velutina	13						75	16						45	25	22	2	35	28	2	24	2
														35								
Tilia amer																						
Ulmus amer																						
Ulmus fulva																						
Saplings Dist	22	20	6	8	8	9	13	20	10	30	15	8	15	14	8	13	15	18	6	14		
	19	12	9	10	5	7	7	16	15	9	20	28	22	21	7	13	12	11	8	25		
Distance	7	17	13	10	9	21	3	12	8	28	8	5	17	12	13	9	2	4	9	9		
	6	19	28	20	18	16	9	14	9	27	11	16	17	11	5	21	9	23	25	16		

Stumps

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 5

STATION NO.	1	2	3	4	5	6	7	8	9	20
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car						45 50 5+				
Carya cord	15		13	2	2	3 20 15	2	3	1	1 40 2
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra	70		1	1 13	20			70	1 70	1
Ostrya virg								23	23	
Populus gran							21		40	
P. tremul										
Prunus serot		45		1					1 90	
Quercus alba	2		190	1 110 80	1		53 25		1	
			130	130 90			120 80			
Q. ellipsoid								16 1		
Q. macrocarpa		19 14						14 30		
Q. rubra	110	2 17 25	2 45		35 2	1	2 19 20 1	16 40		16 1
	18 18 2	17 18 1						12		45 35
Q. velutina					40	75		40 29		12 27
					95	30				
Tilia amer										
Ulmus amer										
Ulmus fulva		1								
Sup. dist.	8 12	20 12	2 10	9 20	7 20	13 20	9 12	2 13	5 9	7 15
	20 23	18 16	25 27	6 27	15 12	24 20	16 20	8 12	10 15	27 35
Distance	7 15	3 12	10 26	15 25	5 7	4 11	8 16	3 19	6 15	4 11
	12 16	22 19	8 21	14 21	17 10	12 26	8 17	13 18	10 35	15 17

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 5

STATION NO.	21	2	3	4	5	6	7	8	9	30
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car	(14 12)									
Carya cord	(55 12) (16+1)	1	3 23	3	35 2	4 14	1	1	3	4
C. ovata										
Celtis occ										
Crataegus sp.	1									
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra			(21 15)	(45+1)				1		
Ostrya virg				2 28	1					
Populus gran										
P. tremul										
Prunus serot	1 16			1 35	35		1 30	1		
Quercus alba	20 1			100	(20 15)	(29 40) (15)	(95 27) (75)	(100) (21 12)	1	(65 60) (50)
Q. ellipsoid										
Q. macrocarpa		(30 50)								
Q. rubra	(28 18) (14 25)	(13+1) (15+1)	(26 15) (11 13)	(20) (19+2)	1	(40 55) (14) (14+1)	(21) (5 80)	(14+3)	(24 30) (19+1) (22 13) (35 30) (40 18) (17+1)	(12+1) (120 110 110) 13
Q. velutina										
Tilia amer										
Ulmus amer										
Ulmus fulva										
Sap dist	5 4 6 12	4 13 14 20	17 12 9 16	5 6 18 8	3 9 4 13	17 28 20 15	19 12 21 38	12 16 14 19	28 17 9 11	11 28 26 17
Distance	14 22 17 17	7 13 9 10	2 12 19 9	7 16 17 25	8 23 21 22	8 19 22 6	15 23 18 17	21 12 6 19	11 17 10 17	3 16 23 21

Stand No. 5

STATION NO.	31	32	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	28	4 40 55 50	1	3 50	1 30	2 14 28	2 30	3	3	2
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra						120		16	1	
Ostrya virg				2						
Populus gran			20							45
P. tremul										
Prunus serot	30				1	1	40	23 45 18		
Quercus alba	30 40	16 60 2 20	120 80				160		60 23	130 2
Q. ellipsoid										
Q. macrocarpa										
Q. rubra	14		15 16 16 1	16 17+1	20+1 16+2	1	22 35+1	50 29	13 70 70 40	2 80 60 21+1
Q. velutina	14 13	30			20+2	16+1				
Tilia amer										
Ulmus amer										
Ulmus fulva									85	
Sep Dist	13 10 30 21	16 22 14 12	9 12 14 20	3 6 9 13	5 15 17 21	18 11 21 26	11 16 16 22	13 24 8 11	15 16 10 17	17 23 8 22
Distance	11 9 14 11	12 11 6 15	13 18 12 20	19 12 16 11	5 6 18 9	7 20 16 16	13 8 12 11	4 10 11 17	8 13 16 26	4 12 9 24

Ave. B.A.																
	No. :	No. :	No. Pts. :	No. :	F. % :	D. % :	I. I. :	F. % :	D. % :	Dom. % :						
Tree	Pts. :	Tr. :	Dom. :	Sap. :	Sap. :	Sap. :	Sap. :	Seed :	Seed :	Tr. :	Tr. :	Trees :	I. I. :	C. I. :	Tree :	Stem :
Acerrubrum																
A. saccharum																
Carya cord.	17	22	(29) 839	36	74	34.6	46.2	121.2	1042.3	15.6	13.7	9.2	38.5	331.1	38.1	28.9
C. ovata																
Celtis occiden.																
Fagus grand.																
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere																
J. nigra	10	12	(12) 512	6	6	5.8	3.7	14.2	89.5	9.2	7.5	5.6	22.3	140.5	42.7	39.4
Ostrya virgin.	3	3	93	4	6	3.8	3.7	11.2	97.4	2.8	1.9	1	5.7	49.6	31	31
Populus grand.	7	12	(13) 531	2	2	1.9	1.2	4.6	19.8	6.4	7.5	5.8	19.7	84.7	44.2	40.8
P. tremuloides																
Prunus serotin	11	11	(13) 469	11	12	10.6	7.5	27.1	97.6	10.1	6.9	5.1	22.1	79.6	42.6	36.1
Quercus alba	18	24	(39) 2581	13	18	12.5	11.2	35.5	127.8	16.5	15	28.2	59.7	214.9	107.5	66.2
Q. ellipsoidalis																
Q. macrocarpa	1	1	23							.9	.6	.3	1.8	1.8	23	23
Q. rubra	30	61	(106) 3420	26	34	25	21.2	69.3	388.1	27.5	38.1	37.3	102.9	576.2	56.1	32.3
Q. velutina	11	13	(19) 613	3	5	2.9	3.1	9	22.5	10.1	8.1	6.7	24.9	62.2	47.2	32.3
Tilia american																
Ulmus american																
U. rubra	1	1	85	1	1	1.1	.6	2.4	19.7	1.9	.6	.9	2.4	19.7	85	85
C. atregeus aff.				2	2	1.9	1.2	4.6	4.6							
			(237)													
	109	160	9166	104	160	100	99.6	299.1	1909.3	100	99.9	100.1	300	1560.3		

1.48 stems per tree

+ 349

93.2%

6.8%

221

16

	12-22	23-33	34-44	45-55	56-66	67-77	78-88	89-99	100-124	125-149	150-174	175-199
Carya cord.	13	6	3	7								
Jug. nigra	6	1	1	2		2			1			
Ost. virg.	2	2	1									
Pop. grand.	5	2	2	3	1		1	1				
Pr. serot.	2	4	4	2			1					
Querc. alba	8	6	2	3	4	1	3	1	6	3	1	1
Q. mac.		1										
Q. rubra	57	14	13	7	3	6	2		3		1	
Q. velut.	8	5	3	1		2		1				
Ulm. fulv.							1					

99 41 27 24 8 11 8 3 10 3 2 1 **237**

Stems

1 2 3 4 5 6

C. cord.	18	1	3									
Jug. nig.	11	1										
Ost. virg.	3											
Pop. grand.	11	1										
Pr. serot.	10	1										
Querc. alba	12	9	3			12	12	24	39	50	1.62	
Q. mac	1					1	0	1	1	0	1	
Q. rub.	30	21	7	2	1	30	31	61	106	50.8	1.74	
Q. velut.	9	2	2			9	4	13	19	30.8	1.46	
Ulm. fulva	1											

106 35 16 2 1 52 47 99 165 47.5 1.67

Quercus totals

single multiple total stems no multiple stems

1.48 stems

9.47.

CI = 1560

1504

Centaurea

	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. 3	2																	
Q. macrocarp.			1															1
Q. velut. 6	5	6①		3④	1		2①		1									19 13⑥ 9
Prun. serot. 15	12	1	1	4	4②			1										16 11② 3
Querc. alba 23	18		5③		2③	3③	2④	1	4①	5②			1					35 24⑤ 22
Pop. grand. 3	2	1	5①		2	1	1	2										18 12① 1
Carya ovata																		
Querc. rubra 43	34	21⑤	13③	8①①	8②	4④	3④	2②		1②		1						91 61④ 67
Juglans nig. 8	6	3	3①	1	2		2			1								18 12① 1
Frax. amer.																		
Acer rubrum																		
Tilia amer.																		
Jug. cinerea																		
Ulmus amer.																		
Celtis occ.																		
Ulm. rubra 1	1							1										1 1
Carya cord. 94	74	8①	6	3	2	3⑥												32 22⑦ 10
Ostrya virg. 8	6		2		1													4 3
Acer sacc.																		
	160																	160⑦ 113
Sap CI =	1909																	
Av dist	13.6																	
Av BA	38.7	(57.3)																
Trees/acre	235.5																	
Dom/acre	13,494																	
#/acre	204	139.6			63.2			27.9				4.4						235

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No.
Quadrat No. 5

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
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex ~~abundant~~
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. circaezans
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 claytonii
O. longistylis
Osmunda claytonii
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:

Q. alba
U. fulva
P. virgin.
P. serot.
Carya cord
P. phila. ~~serot.~~

B. ~~serot.~~
C. ~~serot.~~
P. ~~serot.~~
A. ~~serot.~~
S. ~~serot.~~

SOUTHERN UPLAND HARDWOODS

Presence 1504

- | | | |
|---------------------------------------|-------------------------------------|--------------------------------------|
| ✓ <i>Actaea pachypoda</i> | <i>Galium aparine</i> | ✓ <i>Pteridium aquilinum</i> 5 |
| ✓ <i>Adiantum pedatum</i> 20 | <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> 20 |
| ✓ <i>Amphicarpa bracteata</i> 55 | <i>G. triflorum</i> | ✓ <i>R. septentrionalis</i> |
| <i>Anemonella thalictroides</i> | ✓ <i>Geranium maculatum</i> 80 | ✓ <i>Rhus radicans</i> 25 |
| ✓ <i>Apocynum androsaemifolium</i> 10 | <i>Geum canadense</i> 5 | ✓ <i>R. cynosbati</i> |
| ✓ <i>Aralia nudicaulis</i> 45 | <i>Hackelia virginiana</i> | <i>R. missouriense</i> |
| <i>A. racemosa</i> | ✓ <i>Helianthus strumosus</i> | ✓ <i>Rosa</i> sp. 5 |
| <i>Arenaria lateriflora</i> | <i>Hepatica acutiloba</i> | ✓ <i>Rubus allegheniensis</i> 20 |
| ✓ <i>Arisaema atrorubens</i> 15 | <i>Hydrophyllum virginianum</i> | ✓ <i>R. occidentalis</i> |
| <i>Aster macrophyllus</i> | <i>Hystrix patula</i> | <i>R. strigosus</i> |
| ✓ <i>A. sagittifolius</i> 20 | <i>Impatiens biflora</i> | ✓ <i>Sambucus canadensis</i> 10 |
| <i>A. shortii</i> | <i>Lactuca biennis</i> | <i>Sanguinaria canadensis</i> |
| ✓ <i>Athyrium filix-femina</i> 25 | <i>Laportea canadensis</i> | ✓ <i>Sanicula gregaria</i> 10 |
| ✓ <i>Botrychium virginianum</i> | ✓ <i>Lathyrus ochroleucus</i> 5 | ✓ <i>S. marilandica</i> 10 |
| <i>Brachyelytrum erectum</i> | ✓ <i>Lonicera prolifera</i> | ✓ <i>Smilacina racemosa</i> 85 |
| <i>Carex albursina</i> | <i>Lysimachia quadrifolia</i> | <i>S. stellata</i> |
| ✓ <i>C. convoluta</i> 25 | ✓ <i>Monarda fistulosa</i> 5 | ✓ <i>Smilax ecirrhata</i> 15 |
| ✓ <i>C. pensylvanica</i> 30 | ✓ <i>Osmorhiza claytoni</i> 20 | ✓ <i>S. herbacea</i> 10 |
| <i>Caulophyllum thalictroides</i> | ✓ <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> 60 | ✓ <i>Panicum latifolium</i> | ✓ <i>S. ulmifolia</i> 15 |
| <i>Cornus alternifolia</i> | ✓ <i>Parietaria pensylvanica</i> 15 | ✓ <i>Thalictrum dioicum</i> 25 |
| ✓ <i>C. femina</i> 15 | ✓ <i>Parthenocissus vitacea</i> 30 | ✓ <i>Triosteum perfoliatum</i> 10 |
| <i>C. rugosa</i> | <i>Phlox divaricata</i> | ✓ <i>Uvularia grandiflora</i> 5 |
| ✓ <i>Corylus americana</i> 30 | ✓ <i>Phryma leptostachya</i> 25 | ✓ <i>Veronicastrum virginicum</i> 10 |
| ✓ <i>Cryptotaenia canadensis</i> 15 | ✓ <i>Podophyllum peltatum</i> 10 | <i>Viburnum acerifolium</i> |
| ✓ <i>Desmodium glutinosum</i> 60 | <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> 5 | <i>Polygonum virginianum</i> | <i>V. pubescens</i> |
| <i>E. rugosum</i> | ✓ <i>Potentilla simplex</i> | <i>Vitis aestivalis</i> |
| ✓ <i>Festuca obtusa</i> 60 | ✓ <i>Prenanthes alba</i> | ✓ <i>V. riparia</i> 5 |
| ✓ <i>Fragaria virginiana</i> | ✓ <i>Prunus virginiana</i> 15 | <i>Zanthoxylum americanum</i> |

Additional species:

- 5
63
68
- *Carya cordiformis* 20
 - ✓ *Crataegus*
 - *Prunus serotina* 5
 - *Quercus alba* 5
 - *Ulmus rubra* 10

- *Scrophularia marilandica*
- *Arctium minus*
- ✓ *Chenopodium album*
- ✓ *Cirsium altissimum*
- *Solidago gigantea*

1504

CI = 1560

Sap - 1909 + 1

H - 279 S

