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1505

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 6

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	2	3	1	2		
C. ovata								1		1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra			1						70	
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot										
Quercus alba	30	2	3 15	1 25 28	3	1 60	17 20	3 19	1	2 2
Q. ellipsoid										
Q. macrocarpa		80	120		35 35					40
Q. rubra	140 140 17	2 110 70	130 208 45 150 200	22 25 45 27	80 100 45 27	22 70 55 95	1 50 55 230	90 75	65 80 170	13 130 180
Q. velutina										2 55 28 160
Tilia amer										
Ulmus amer										
Ulmus fulva			1							1
	34 28 13 35	29 21 18 31	34 35 25 22	32 40 32 27	25 12 10 27	4 10 21 27	27 13 9 17	8 12 40 29	8 8 33 50	30 55 23 55
Distance	18 8 10 19	3 12 18 18	8 11 10 18	10 20 10 10	10 3 8 7	8 13 18 29	8 13 22 12	12 17 14 17	7 15 21 18	4 26 6 10

31.5
2138
1262

RED

RED
Black

More
cutting

Black
Red

1503

1504

1505

oats

1505

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 6

STATION NO.	1	2	3	4	5	6	7	8	9	20	
Acer rubrum											
A. saccharum											
Betula papy.											
Carpinus car											
Carya cord	1	17	1	1				1		1	
C. ovata	1										
Celtis occ											
Crataegus sp.											
Fagus grand											
Fraxinus am											
F. nigra											
Juglans cin.											
J. nigra								1			
Ostrya virg											
Populus gran										1	
P. tremul											
Prunus serot				35			24				
Quercus alba	1	1	1	20	2	90 110	4 16	3	1 90 55	1 30 95	2 45 55 85
Q. ellipsoid											
Q. macrocarpa	55		100 95				120				
Q. rubra	180 70 150 110	120 60	45 27 40	75 120 70	80 45 240	65 90 60 40	24 130	2 12 17 28 30 + 2	2 23 15 + 1	1 65	2
Q. velutina											
Tilia amer											
Ulmus amer											
Ulmus fulva	1	65					1				
	20 40 38 60	21 17	33 29	13 24	5 12 11 10	33 25 44 34	9 18 13 18	38 21 10 20	4 18 17	25 23 13 30	
Distance	16 18 10 27	6 18 9 17	2 8 12 11	1 9 25 16	15 20 17 22	4 19 16 19	6 23 5 23	8 27 13 9	10 13 16 13	8 13 17 18	

40 34 58 26

8

over for 24-30

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 2

	05	21	22	3	4	5	6	7	8	9	30	STATION			
Cord.					1	1	1								
OVATA	50											1			
NIGRA															
grand.									105						
serot.				70											
alba	95 50 46+1 25	2	45 (25+1)	19	4	2			30	29	2	35			
rubra		2		35	110 90 65 65 120 60 80	1 65 1 60 140 140 170 95 65 75 40			55 11 65 65 95 75 100 75 40 35	200 50 180	1	35 1 35 95 50			
ut.															
Fulva									2	1					
ist.	26 20	22 26	10 27	20 12	4 11	19 11	14 50	27 38	29 33	24	21	11 9 31 21	6 34 21	11 20	
t.	5 8	11 11	6 19	17 12	8 17	16 18	7 27	18 21	15 18	15 17	5 9 8 10	3 11 18 13	8 14 16 31	8 20 10 17	2 7 18 12
									58	48	42	18		22	

170.81

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 6

STATION NO.	1	2	3	4	5	6	7	8	9	40								
Acer rubrum																		
A. saccharum																		
Betula papy.																		
Carpinus car																		
Carya cord			17	2		1		1		1								
C. ovata		1																
Celtis occ																		
Crataegus sp.																		
Fagus grand																		
Fraxinus am																		
F. nigra																		
Juglans cin.																		
J. nigra																		
Ostrya virg																		
Populus gran							50			85								
P. tremul																		
Prunus serot																		
Quercus alba	2	19	1	1	20 15	2	1	2	19	3	21	2	1					
Q. ellipsoid																		
Q. macrocarpa																		
Q. rubra	75 80	110 100	1 140 130 45 55	95 110 70 180	120 90	55 22 55 50	1 85 41 60 45	1 110 80	140 75 140	130 40 70 85 45 65	16 75 55 40							
Q. velutina																		
Tilia amer																		
Ulmus amer																		
Ulmus fulva													1					
Self.	32 25	11 36	26 44 31	7 16 20	14 25 35	34 21 40	31 40 21 40	22 25	28 40	11								
Distance	6 15	28 19	7 20	18 12	6 20	14 15	11 16	10 13	13 23	6 9	13 21	5 19	7 18	11 17	15 4	9 9	17 6	10 16
	50	22	52	14	28	42	62	44	56	22								

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Stand 6

~~7000 FC~~, ~~7300~~ 5600 FC

1505

400	190
380	280
200	300
190	130
100	<u>200</u>

3933

2500	7000
2000	7300
7300	2500
<u>311800</u>	<u>16800</u>
3933	5600

1504

5

~~2500 FC~~

110	60
120	250
60	120
150	100
<u>180</u>	<u>210</u>

1503

4

~~2000 FC~~ 3933

120	220
180	50
220	180
386	170
50	<u>90</u>

Stand 1505 Soil = A₀ $\frac{1}{8}$ " - $\frac{1}{4}$ " Silt loam

A₁ $1\frac{1}{2}$ " - 2"

Temp. soil $18\frac{1}{2}^{\circ}$ C 18° C

air $23\frac{1}{2}^{\circ}$ C $22\frac{1}{2}^{\circ}$ C

Water permeability 50 cc
35 sec
45 sec

1504

Soil A₀ $\frac{1}{8}$ " - $\frac{1}{4}$ "

A₁ 2 - $1\frac{1}{2}$ "

Silt-loam
Hard-loam

Water 10 sec,
20 sec

Temp soil 18° $18\frac{1}{2}^{\circ}$
air 23° $21\frac{1}{2}^{\circ}$

1503

A₀ $\frac{1}{4}$ "

A₁ 1"

Temp soil 18 air 21

Water 30 sec
25

$x = (43) \text{ etc. } \times 1.528$

1505
CI = 1552

	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.			1	1			1										3
Querc. alba	61	8	7①	5	4	3		5	1								23①
Pop. grand.	1				1			1	1								3
Carya ovata	4				1												1
Querc. rubra	25	6①	9②	4①	12③	12⑦	20④	15⑧	9④	9①	8②	3①	6③	2			115③①
Juglans nig.	3						1										1
Frax. amer.																	
Acer rubrum																	
Tilia amer.																	
Jug. cinerea																	
Ulmus amer.																	
Celtis occ.																	
Ulm. rubra	8						1										1
Carya cord.	25	2															2
Ostrya virg.																	
Acer sacc.																	
	127																159③②
SAP CI =	1662																
#/acre	65		43		56			41			19			3			243

Ave. B.A.																
Tree	No.	No.	No.	Pts.	No.	F.	D.	F.	D.	F.	D.	Dom.	I.	I.	C.	I.
	Pts.	Tr.	Dom.	Sap.	Sap.	Sap.	Sap.	Seed	Seed	Tr.	Tr.	Trees	I.I.	C.I.	Tree	Stem
Acerrubrum																
A. saccharum																
Carya cord.	2	2	34	20	25	23.5	19.7	64.8	557.3	2.8	1.3	.2	4.3	37.1	17	17
C. ovata	1	1	50	4	4	4.7	3.1	11.7	52.6	1.4	.6	.4	2.4	10.8	50	50
Celtis occiden.																
Fagus grand.																
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere																
J. nigra	1	1	70	3	3	3.5	2.4	8.8	55.4	1.4	.6	.5	2.5	15.7	70	70
Ostrya virgin.																
Populus grand.	3	3	240	1	1	1.2	.8	3	12.9	4.2	1.9	1.8	7.9	34	80	80
P. tremuloides																
Prunus serotin	3	3	129							4.2	1.9	.9	7	25.2	43	43
Quercus alba	22	33	(34) 1398	32	61	37.6	48	128.4	462.2	30.6	20.8	10.2	61.6	221.8	42.4	41.1
Q. ellipsoidalis																
Q. macrocarpa			(146)													
Q. rubra	39	115	11,728	18	25	21.2	19.7	61.3	343.3	54.2	72.3	85.5	212.2	1187.2	102	80.3
Q. velutina																
Tilia american																
Ulmus american																
U. rubra	1	1	65	7	8	8.2	6.3	21.7	177.9	1.4	.6	.5	2.5	20.5	65	65
			(191)													
	72	159	13714	85	127	99.9	100	1661.6	100.2	99.9	100	300.1	1552.2			

1.2 stem per tree

+ 109.4

77%

23%

Size

147

44

	12-22	23-33	34-44	45-55	56-66	67-77	78-88	89-99	100-124	125-144	150-174	175-199	200-244
CARYA COR.	2												
CAR. OVATA				1									
Jug. NIGRA													
Pop. GRAND.				1			1		1				
PRUN. SEROT.		1	1			1							
QUERC. ALBA	12	8	1	6	1		1	4	1				
Q. RUBRA	12	7	13	24	15	15	10	8	16	12	5	4	5
ULM. FULVA					1								
	26	16	15	32	17	17	12	12	18	12	5	4	5

STEMS

	1	2	3	4									
CAR. COR.	2												
C. OVAT.	1												
Jug. NIGRA	1												
Pop. GRAN.	3												
PRUN. SEROT.	3												
QUERC. ALBA	32	1			32	1	33	34	3	1.03			
Q. RUBRA	86	27	2		86	29	115	146	25.2	1.27			
ULM. FULVA	1												

Quercus total 118 30 148 180 20.3 1.22

P. 101 +

certificates 5.1

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 6
Quadrat No.

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 albursina ///
 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 clayton.
 O. longistylis
 Osmunda claytoni
 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
 Tovarira 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:

Carya cord. ///
 C. ovata
 Q. rubra ///
 P. alba
 P. serot. ///

U. fulva ///
 U. fulva > 1 tall
 Acer negundo
 Jug. nigra //

Poa prat. 1
 Comp. 1
 Acer rubrum 1

~~yellow-red-green stem~~
yes

BUJA OF DISCOVER

Freq. %

SOUTHERN UPLAND HARDWOODS

Presence

1505

Actaea pachypoda
 ✓ Adiantum pedatum
 ✓ Agrimonia gryposepala 15
 Amelanchier spp.
 ✓ Amphicarpa bracteata 30
 Anemonella thalictroides
 ✓ Apocynum androsaemifolium
 ✓ Aralia nudicaulis
 A. racemosa
 Arenaria lateriflora
 ✓ Arisaema atrorubens
 Aster macrophyllus
 ✓ A. sagittifolius 30
 A. shortii
 ✓ Athyrium filix-femina 5
 Botrychium virginianum
 Brachyelytrum erectum
 Carex albursina
 ✓ C. convoluta 15
 ✓ C. pensylvanica 95
 Caulophyllum thalictroides
 ✓ Celastrus scandens 5
 ✓ Circaea quadrisulcata 55
 Cornus alternifolia
 ✓ C. femina 35
 C. rugosa
 ✓ Corylus americana 25
 ✓ Cryptotaenia canadensis 5
 ✓ Desmodium glutinosum 70
 D. nudiflorum
 ✓ Dioscorea villosa
 Eupatorium purpureum
 E. rugosum
 ✓ Festuca obtusa 5
 ✓ Fragaria virginiana 20

Galium aparine
 G. circaezans
 ✓ G. concinnum 70
 G. lanceolatum
 G. triflorum
 ✓ Geranium maculatum 80
 Geum canadense
 Hackelia virginiana
 ✓ Helianthus strumosus 25
 Hepatica acutiloba
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens biflora
 Lactuca biennis
 Laportea canadensis
 ✓ Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia
 Monarda fistulosa
 Osmorhiza claytoni
 O. longistylis
 Oxalis violacea
 ✓ Panicum latifolium 20
 Parietaria pensylvanica
 ✓ Parthenocissus vitacea 5
 Phlox divaricata
 ✓ Phryma leptostachya 30
 ✓ Podophyllum peltatum 30
 Polemonium reptans
 Polygonatum canaliculatum
 P. pubescens
 Polygonum virginianum
 ✓ Potentilla simplex 30
 ✓ Prenanthes alba 10
 ✓ Prunus virginiana

Pteridium aquilinum
 ✓ Pyrrola elliptica 10
 ✓ Ranunculus abortivus 5
 R. recurvatus
 ✓ R. septentrionalis
 ✓ Rhus radicans 15
 ✓ R. cynosbati
 R. missouriense
 Rosa sp.
 ✓ Rubus allegheniensis 65
 ✓ R. occidentalis 10
 ✓ R. strigosus 5
 Sambucus canadensis
 Sanguinaria canadensis
 ✓ Sanicula gregaria 5
 ✓ S. marilandica 20
 ✓ Smilacina racemosa 45
 S. stellata
 ✓ Smilax ecirrhata 10
 ✓ S. herbacea 25
 ✓ Solidago canadensis 5
 S. flexicaulis
 ✓ S. ulmifolia 30
 Thalictrum dioicum
 Triosteum perfoliatum
 Uvularia grandiflora
 ✓ Veronicastrium virginicum 5
 Viburnum acerifolium
 V. lentago
 V. rafinesquianum
 Viola cucullata
 V. pubescens
 Vitris aestivalis
 ✓ V. riparia 25
 Zanthoxylum americanum

Additional species:

✓ Acer negundo 5
 ✓ Acer rubrum 5
 Carya cordiformis 30
 C. ovata 5
 ✓ Crataegus
 Juglans nigra 10
 Prunus serotina 35

✓ Ceanothus americanus
 Poa pratensis 5
 P. compressa 5

Quercus alba 5
 Q. rubra 20
 Ulmus rubra 15

80 - 70 - 80 - 70 - 75 - 75

Canopy 80 - 75 - 75 - 70 - 85 - 85 - 65 - 80 - 70

75.7%