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POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1562

STATION NO.	1	2	3	4	5	6	7	8	9	10							
Acer rubrum																	
A. saccharum	2	2	23	4	17	3	12	3	46	4	3	15	2	15	4	17	4
Betula papy.																	
Carpinus car																	
Carya cord	23	1															
C. ovata																	
Celtis occ																	
Crataegus sp.																	
Fagus grand																	
Fraxinus am																	
F. nigra																	
Juglans cin.																	
J. nigra	110																
Ostrya virg		2															
Populus gran																	
P. tremul																	
Prunus serot		65	15	25	15		20										
Quercus alba		163			113	140											
Q. ellipsoid																	
Q. macrocarpa																	
Q. rubra	27 181	400 (2015)	77 115	340		280 260	352		32 415								
Q. velutina																	
Tilia amer																	
Ulmus amer																	
Ulmus fulva	1																
	10 15 10 23	8 10 8 8	7 19 14 19	13 24 30 27	9 10 15 25	3 20 15 22	2 11 18 10	6 6 10 11	5 19 16 13		16 15 11 15						
Distance	16 10 14 10	10 9 9 12	7 16 21 14	2 11 10 15	11 17 8 23	16 19 18 10	7 23 8 25	25 7 22 29	7 14 16 7		17 7 11 12						

8 14

75

50

5

95

90

33 18 36 12

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1562

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum	45 4	14 4 133	33 2 174	220 4	12 4 40	15 4 91	13 4 104	19 4 25	17 4 42	3
Betula papy.										
Carpinus car										
Carya cord			L			30				
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra			L							
Ostrya virg										L
Populus gran										164
P. tremul										
Prunus serot	31 127									
Quercus alba		12	122 73	69 110	80		12	45 116	194 28	74
Q. ellipsoid										
Q. macrocarpa										
Q. rubra		230	11	365	307	264	302	65		250 310
Q. velutina	14									
Tilia amer										
Ulmus amer										
Ulmus fulva		24 12								
	18 12 25 30	11 19 13 16	6 8 12 13	5 9 6 17	17 19 12 22	7 17 15 19	18 11 9 13	3 13 5 8	14 18 16 20	6 11 2 12
Distance	15 17 14 12	8 12 10 17	2 13 33 9	6 19 6 22	22 8 14 10	17 18 5 23	20 19 7 18	18 11 25 14	10 9 12 10	15 9 15 6

60 85 32 27
28 28 19 17 15 16 29 26 48 3790 95 35
20 20 18 27 17 9 35

70 80

Q nub 85, no spit

Q nub 92, no spit 28" diam @ 2'



FORM 100-100-100-100

SOUTHERN HARDWOODS

STAND NO. 100-100-100

DATE FOR NO. 100-100-100

PLANT ECOLOGY RESEARCH

UNIVERSITY OF MISSISSIPPI

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1562

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i>										
<i>A. saccharum</i>	13 4	4	4	4	24 2	2 13 2	12 4	13 3	12 4	
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>					1					
<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>										
<i>J. nigra</i>										
<i>Ostrya virg</i>	39	31 17			1					
<i>Populus gran</i>	165									
<i>P. tremul</i>										
<i>Prunus serot</i>										
<i>Quercus alba</i>	62	29 116	50	64 65	153	118 241	128 44	242 240	265 205	180 150
<i>Q. ellipsoid</i>						146 89			215	
<i>Q. macrocarpa</i>										
<i>Q. rubra</i>		271	250 310	278	173					
<i>Q. velutina</i>			50 23 13 121 +1							
<i>Tilia amer</i>										52
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>				63	15					
	613 1114	24 38	117 118	1112 1114	916 2816	315 713	415 711	610 1112	58 411	215 142
Distance	14 16 23 32	21 13 8 20	21 5 20 10	19 8 25 9	15 13 10 8	16 12 24 14	9 14 10 15	11 25 5 10	26 21 25 14	14 11 12 19
			95	75		76	85	80	90	
							4 20	7 12		

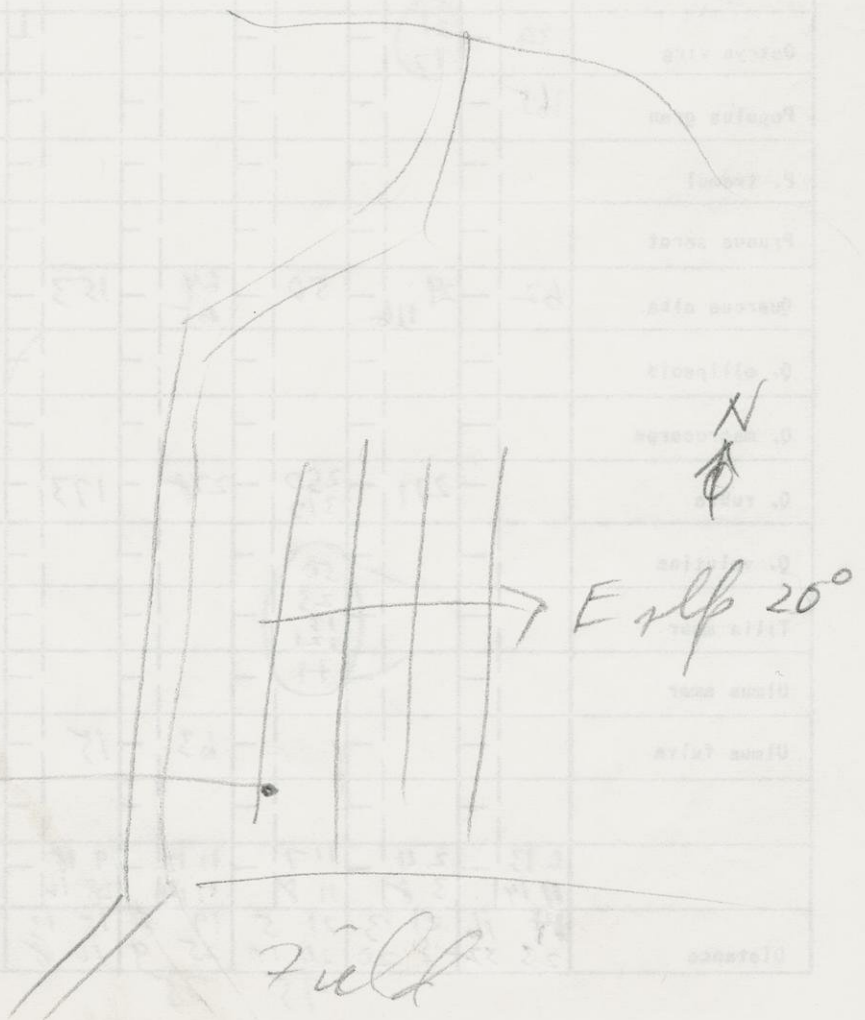
Fairly heavy select cut
of wht & red oaks. Deer refrod,

Soil A₀ 1"
A₁ 2-3" silt loam

Beware!

at base of walnut
Pt #1, in ground
live some bees.

I stepped on them, & they
didn't like it.



POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No.

1562

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
2.4 9.1 9.7 A. saccharum 97										C-2
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
2.4 1.4 5.7 Ostrya virg 49.6							A-3			
Populus gran										
P. tremul										
7.3 4.1 17.1 Prunus serot 61.6					A-5 Sd			A-3		A-5
73.2 75.4 5d Quercus alba C-2	C-2	C-3	A-3	A-4	B-3	A-2	A-3	C-3	A-5	B-3
22.9 80.4 Q. ellipsoid	C-3	A-4	B-2 Sd	C-3	C-3	C-2	A-3	A-5		
Q. macrocarpa										
9.8 12.3 37.2 Q. rubra 185.9		B-5		C-1					B-4 B-4	
Q. velutina										
2.9 1.4 5.7 Tilia amer 41.6				A-5 T15 43.4						
Ulmus amer										
2.4 1.4 5.7 Ulmus fulva 46.7										A-4
Distance	22 30 25 34	20 19 15 27	21 21 23 30	11 16 70 54	18 34 22 50	29 45 30 100	11 35 13 38	15 39 27 19	12 60 24 32	6 28 19 51

CI = 1284.8

1195

29.9 487

49/ac

Studied woods in 1957

In winter 1957-58, cut out lots of big red oak.

(Didn't count now tho)

Q. m. 102

102 ym old

Q. m. 700" at 1'

Tree	:No. :No. :		:No.Pts.:No. :		:F.% :D.% :		:F.% :D.% :		:F.% :D.% :		:Dom.% :		:I.I. :C.I. :		:TR :ST :	
	Pts.	Tr.	Dom.	Sap.	Sap.	Sap.	Sap.	Seed	Seed	Tr.	Tr.	Trees	I.I.	C.I.	TR	ST
Acerrubrum																
A. saccharum	22	33	1278	30	102	65.2	85.0	225.3	2253.0	26.8	27.5	9.6	63.9	639.0	38.7	
Carya cord.	2	2	53	4	4	8.7	3.3	18.0	154.8	2.4	1.7	1.4	4.5	38.7	26.5	
C. ovata																
Celtis occiden.																
C. americana Fagus grand.				1	1	2.2	.8	4.5	4.5							
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere																
J. nigra	1	1	110	1	1	2.2	.8	4.5	28.3	1.2	.8	.8	2.8	17.6	110	
Ostrya virgin.	3	3	119	4	6	8.7	5.0	20.5	178.3	3.7	2.5	.9	7.1	61.8	39.7	23.8
Populus grand.	2	2	329							2.4	1.7	2.5	6.6	28.4	164.5	
P. tremuloides																
Prunus serotin	6	8	341	1	1	2.2	.8	4.5	16.2	7.3	6.7	2.6	16.6	59.8	42.6	37.9
Quercus alba	23	41	4956							28.1	34.2	37.1	99.4	357.8	120.9	
Q. ellipsoidalis																
Q. macrocarpa																
Q. rubra	17	24	5774							20.7	20.0	43.3	84.0	470.4	240.6	231
Q. velutina	1	1	14							1.2	.8	.1	2.1	5.2	14	
Tilia american	2	2	259	2	2	4.3	1.7	9.0	65.7	2.4	1.7	1.9	6.0	43.8	129.5	51.8
Ulmus american																
U. rubra	3	3	114	3	3	6.5	2.5	13.5	110.7	3.7	2.5	.8	7.0	57.4	38	28.5
	82	120	13,347	46	120	100.0	99.9	299.8	2811.5	99.9	100.1	100.0	380.0	1779.9		

1.07 stems/tree

Canopy 80.3%

+1031.6

ArBA 1562

Ave. Dist.
Btw'n Trees
14.3 12.4

Ave. BA
(Total
BA ÷ 80)
111.2 104.3

No. Trees
Per acre
213 281.4

Dom. per
acre
23,685.6

42.5%

1562

CI = 1780

	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		
CRATAEG. Pop. trem.	2	1																	
Quercus ellip.																			
Q. macrocarp.																			
Q. velut.			1															2	1
Prun. serot.	2	1	2	3⑩	1		1			1								14	8⑩ 2
Querc. alba				2	1	4	2	6	3	2	6	4	1	3	6	1		72	41
Pop. grand.												2						4	2
Carya ovata																			
Querc. rubra				2⑩	1		2					1	1	3	5	4	3	2	43 24⑩ 2
Juglans nig.	2	1							1									2	1
Frax. amer.																			
Acer rubrum																			
Tilia amer.	5	2				1				1③								4	2③ 5
Jug. cinerea																			
Ulmus amer.																			
Celtis occ.																			
Ulm. rubra	7	3	1	1⑩		1												5	3⑩ 2
Carya cord.	9	4		1	1													4	2
Ostrya virg.	14	6		1⑩	1⑩	1												5	3② 4
Acer sacc.	240	102	20	3	1	4		1	1		1	1		1				58	33

120

Sap CI = 2811

120⑧
15

#/acre

281

76.3

39.1

28.4

24.8

28.4

12.4

3.6

213

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 1562

Quadrat No.

Actaea pachypoda
 ✓ Adiantum pedatum 8
 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 8
 A. shortii
 ✓ Athyrium filix-femina 14/16
 ✓ Botrychium virginianum 18
 Brachyelytrum erectum
 Campanula americana
 Carex albursina
 C. pennsylvanica 45 17 19 20
 Caulophyllum thalictroides
 Celastrus scandens 11/18
 Circaea quadrisulcata 23 47 8 10 17 20
 Claytonia virginiana
 Cornus alternifolia
 C. femina 4 10 11 17
 ✓ C. rugosa
 Corylus americana 23 510
 Cryptotaenia canadensis
 Cyripedium pubescens
 Cystopteris fragilis
 Dentaria laciniata
 Desmodium glutinosum 34 517
 D. nudiflorum 8 10 17
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum
 Eupatorium purpureum
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virginiana
 Galium aparine
 G. circaezans
 G. concinnum 17 19 20
 G. lanceolatum
 G. triflorum
 Geranium maculatum 16 18
 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 8
 Lysimachia quadrifolia
 Maianthemum canadensis
 Menispermum canadensis
 Mitella diphylla
 Monarda fistulosa
 Orchis spectabilis
 Oryzopsis racemosa
 Osmorhiza clayton. 24 12
 O. longistylis 7
 Osmunda claytoni
 Panax quinquefolia
 Panicum latifolium
 Parietaria pennsylvanica 18 17
 Parthenocissus inserta 24 78 10 16
 Phlox divaricata
 Phryma leptostachya 38 13
 Podophyllum peltatum 20
 Polemonium reptans 14 10 18

Polygonatum canaliculatum
 Polygonatum pubescens
 Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum 2
 ✓ Pyrola elliptica
 Ranunculus abortivus
 R. recurvatus
 R. septentrionalis 25 8
 Rhus radicans 23 45 7 13 16 17 18
 Ribes americanum
 R. cynosbati 2
 R. missouriense
 Rosa sp.
 Rubus allegheniensis 14 5
 R. occidentalis
 R. strigosus
 Sambucus canadensis
 ✓ Sanguinaria canadensis 7
 Sanicula gregaria 46 7
 S. marilandica
 Smilacina racemosa 21 7 19 20
 S. stellata
 Smilax ecirrhata
 S. herbacea 4
 S. tamnoides
 Solidago altissima 5
 S. flexicaulis 1, 6 9 10
 S. ulmifolia
 ✓ Thalictrum dioicum 15
 ✓ Tovar virginiana
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 ✓ Triosteum perfoliatum
 Uvularia grandiflora 2
 Veronicastrium virginicum
 Viburnum acerifolium
 V. rafinesquianum 19
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Xanthoxylum americ.
 ✓ Zizia aurea

Astragalus 13 45 6 10 13 20
 Additional species:

P. nut 15 6 9 11 20

Acer sac 35 7 9 10 11 12 14 15 16 19 20

Sp. v. 5 10 15 16

Thymus 5 7
 Carva cord 6 8

Tilia 13 17 20

Q. alba 20

- Cirsium 1

✓ Dionaea
 - Vitis bentago 17

SOUTHERN UPLAND HARDWOODS

Presence

1562

✓ *Actaea pachypoda* ^{rupestris}
 ✓ *Adiantum pedatum* 5
 ✓ *Agrimonia gryposepala*
 ✓ *Amelanchier* spp.
 ✓ *Amphicarpa bracteata*
 ✓ *Anemonella thalictroides*
 ✓ *Apocynum androsaemifolium*
 ✓ *Aralia nudicaulis*
 ✓ *A. racemosa*
 ✓ *Arenaria lateriflora*
 ✓ *Arisaema atrorubens*
 ✓ *Aster macrophyllus*
 ✓ *A. sagittifolius* 5
 ✓ *A. shortii*
 ✓ *Athyrium filix-femina* 10
 ✓ *Botrychium virginianum* 5
 ✓ *Brachyelytrum erectum*
 ✓ *Carex albursina*
 ✓ *C. convoluta*
 ✓ *C. pensylvanica* 25
 ✓ *Caulophyllum thalictroides*
 ✓ *Celastrus scandens* 10
 ✓ *Circaea quadrisulcata* 45
 ✓ *Cornus alternifolia*
 ✓ *C. femina* 20
 ✓ *C. rugosa*
 ✓ *Corylus americana* 25
 ✓ *Cryptotaenia canadensis*
 ✓ *Desmodium glutinosum* 20
 ✓ *D. nudiflorum* 15
 ✓ *Dioscorea villosa*
 ✓ *Eupatorium purpureum*
 ✓ *E. rugosum*
 ✓ *Festuca obtusa*
 ✓ *Fragaria virginiana*

Additional species:

- *Conopholis am.*
 - *Cirsium* 5

✓ *Galium aparine*
 ✓ *G. circaezans*
 ✓ *G. concinnum* 15
 ✓ *G. lanceolatum*
 ✓ *G. triflorum*
 ✓ *Geranium maculatum* 10
 ✓ *Geum canadense* 5
 ✓ *Hackelia virginiana*
 ✓ *Helianthus strumosus*
 ✓ *Hepatica acutiloba*
 ✓ *Hydrophyllum virginianum*
 ✓ *Hystrix patula*
 ✓ *Impatiens biflora*
 ✓ *Lactuca biennis*
 ✓ *Laportea canadensis*
 ✓ *Lathyrus ochroleucus*
 ✓ *Lonicera prolifera* 5
 ✓ *Lysimachia quadrifolia*
 ✓ *Monarda fistulosa*
 ✓ *Osmorhiza claytoni* 20
 ✓ *O. longistylis* 5
 ✓ *Oxalis violacea*
 ✓ *Paricum latifolium*
 ✓ *Parietaria pensylvanica*
 ✓ *Parthenocissus vitacea* 40
 ✓ *Phlox divaricata*
 ✓ *Phryma leptostachya* 15
 ✓ *Pedophyllum peltatum* 5
 ✓ *Polemonium reptans* 20
 ✓ *Polygonatum canaliculatum*
 ✓ *P. pubescens*
 ✓ *Polygonum virginianum*
 ✓ *Potentilla simplex*
 ✓ *Prenanthes alba*
 ✓ *Prunus virginiana* 20

- *Poa pratensis*

✓ *Pteridium aquilinum* 5
 ✓ *Pyrola elliptica*
 ✓ *Ranunculus abortivus*
 ✓ *R. recurvatus*
 ✓ *R. septentrionalis* 15
 ✓ *Rhus radicans* 50
 ✓ *R. cynosbati* 5
 ✓ *R. missouriense*
 ✓ *Rosa* sp.
 ✓ *Rubus allegheniensis* 15
 ✓ *R. occidentalis*
 ✓ *R. strigosus*
 ✓ *Sambucus canadensis*
 ✓ *Sanguinaria canadensis* 5
 ✓ *Sanicula gregaria* 15
 ✓ *S. marilandica* 5
 ✓ *Smilacina racemosa* 20
 ✓ *S. stellata*
 ✓ *Smilax ecirrhata*
 ✓ *S. herbacea* 5
 ✓ *Solidago canadensis* 5
 ✓ *S. flexicaulis* 20
 ✓ *S. ulmifolia*
 ✓ *Thalictrum dioicum* 5
 ✓ *Tricostemum perfoliatum*
 ✓ *Uvularia grandiflora* 5
 ✓ *Veronicastrum virginicum*
 ✓ *Viburnum acerifolium*
 ✓ *V. lentago* 5
 ✓ *V. rafinesquianum* 10
 ✓ *Viola cucullata*
 ✓ *V. pubescens* 5
 ✓ *Vitris aestivalis*
 ✓ *V. riparia*
 ✓ *Zanthoxylum americanum*

- *Zizia*- *Viola eriocarpa*

- *Ucer sacc* 60
 - *Carya cord* 10
 - *Ostrya* 40
 - *Prun. serot* 30
 - *Q alba* 5
 - *Tilia* 15
 - *Ulmus* 10

1562

CI = 1780

Sap - 2811 + 3

H - 359 + 1

