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Sal

	STAND CHARACTERS	Soils	
1917	TREE CI	W.R.C.	72.2
2357	SAP CI	pH	5.5
+440	CI DIFFERENCE	lbs./ACRE CA Mg P K NO ₃ NH ₃	20 200 2 20
449	4 SAPS / ACRE		
261	4 TREES / ACRE	Soil profile	A ₀ 1/8 A ₁ 3" silty loam
47	4 AVE. B.A. STEM		
55	AVE BA TREE	SLOPE	15° W 15' of 100' ac.
14450	Dom. / ACRE	Stump CI	1740
754	stems + cfs	CUTTING Stumps / ACRE	94
305	Stems / ACRE	Spp. cut	DR 44 DA 23
1.17	4 STEMS / TREE		
12	% mult.	Ave. size cut	A. 8
72.2	CANOPY %	Ave. TIME SINCE CUT	2.9

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1564

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum	16				23 21+11	37	16+3 35	30	37	34 19
A. saccharum								125		
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		40 132	65	56	108 22		122			
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg	14 18	4	13	4 13 16	13	3	17	3 13+24	2	12
Populus gran							18			13
P. tremul										
Prunus serot										
Quercus alba	2	51				12		175		97
Q. ellipsoid										
Q. macrocarpa										
Q. rubra	124	12	21	15 17 19+1	1	112 96	31+1	1 15	11	2 15
Q. velutina										
Tilia amer				1	20			95 30 13	13	19
Ulmus amer										
Ulmus fulva							2		28	19
Campy	90	90		90	80		60	60		50
Sap	3 13 5 15	3 11 9 9	3 8 5 13	1 11 6 12	16 5 18 6	8 6 12 14	18 7 2 16	3 11 9 16	3 16 6 13	5 9 6 10
Distance	14 10 7 13	6 8 7 17	15 2 12 17	8 23 21 24	5 7 14 15	8 10 14 15	8 5 11 13	17 9 20 12	7 18 13 16	10 30 20 15

Stump
21 40
23 19

7 in 25' rad.
15 35
10 38

12 27
5 38

6 19
16 28

Q rub 118 no split
" 127 no split
" 121 " "

Q rub 74 showing 1" more = 100 yrs.
spot
3 sap size

Pop grand, 48 no split 13" diam @ 2'
Stumps rot faster when do split.

Quite a few Frax seedlings. Also P. alba & rub seed.

Saps mostly Ostrya.

I don't think it was grazed, but maybe.
No fence.

Tree pt 10, herb pt 7

{ Ostrya - Tilia thicket 10-15' high, $\frac{1}{2}$ " diam.
Pop grand saps

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1564

STATION NO.	1	2	3	4	5	6	7	8	9	20
Acer rubrum	36 44	16 17 +1	46+21	1		120		24	27 30	20 37 41 52 32
A. saccharum					3		18			
Betula papy.										
Carpinus car.										
Carya cord.										
C. ovata			64	11			162 95			82
Celtis occ.										
Crataegus sp.										
Fagus grand.										
Fraxinus am.					1	1	1	1		
F. nigra										
Juglans cin.		1								
J. nigra							23 15			
Ostrya virg.		12	12 16	20 22	22 24	15 13	3		15	16
Populus gran.										
P. tremul.										
Prunus serot.										
Quercus alba	125	1								
Q. ellipsoid.										
Q. macrocarpa										
Q. rubra		2		2	16					
Q. velutina										
Tilia amer.	24	3	19 36 15 11	13	19	14 18 32 20 + 6	85	18 19 28 22 + 1	13 + 1	
Ulmus amer.										
Ulmus fulva										
Canopy	95		90	60						
Leaf	11 13 5 8	3 10 11 17	7 5 11 19	12 8 8 19	9 8 14 15	3 17 3 18	1 12 8 20	1 3 3 6	11 17 14 18	6 11 8 11
Distance	19 7 10 7	15 3 12 14	18 24 9 8	11 13 9 22	4 12 10 13	15 6 17 12	15 9 18 24	7 10 10 8	11 12 14 10	11 8 14 22

Stumps 12 in 30' rad 23 22
7 326 13
11 32

Light Out Hi 185

In Low 50 80 80 75 45 60
Hi 50 60 45 60

A₀ $\frac{1}{8}$

A₁ 3" silt loam

B yellow (clay)

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1564

STATION NO.	1	2	3	4	5	6	7	8	9	30
Acer rubrum		33	110		42 63	53 122	114 151		25	134 5
A. saccharum	13 13			13	42 6	18		22		
Betula papy.										
Carpinus car										
Carya cord		140 42 45								
C. ovata	55		78	80				101	103	
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am			2				1	1		
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg	3	3	2	4	4	2	21	1	4	4
Populus gran						13 17	23	11	1	
P. tremul										
Prunus serot										15
Quercus alba					31 57	11		2	133	11
Q. ellipsoid										
Q. macrocarpa								106 40 47		11
Q. rubra			11	14		3		115		11
Q. velutina										
Tilia amer	35 63 22	18	17 80	47 26			1		100 72	
Ulmus amer										
Ulmus fulva						18	59			164 1
		80		75		60		60		50
	16 9 9 19	11 11 10 10	6 12 11 13	14 15 11 7	7 7 6 10	2 14 12 14	5 12 10 13	9 11 10 17	6 12 10 19	
Distance	14 14 12 20	9 12 7 17	16 14 14 13	22 12 17 8	19 19 13 22	16 19 10 11	4 9 15 6	5 11 7 17	8 24 6 17	14 18 17 12
			13 14 16 34		12 15 15 33		18 23 30 33		33 35 8 35	

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1564

STATION NO.	1	2	3	4	5	6	7	8	9	10
3-3 7 4 16.5 Acer rubrum 115.5						A-5 T16 +3Sp	A-5 T12		A-4	
2-2 4.7 2.6 10.9 A. saccharum 109		A-3 Sd	A-4							
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
3-3 7 4 16.5 Ostrya virg 143.6			A-5 2Sp					A-4 Sd	A-4	
Populus gran										
P. tremul										
Prunus serot										
10-18 23.2 23.6 70.2 Quercus alba 252.7	C-3 B-3	A-3 C-3			B-4 Sp	A-4		B-4	A-4 B-4	A-4
Q. ellipsoid										
Q. macrocarpa										
19-39 44.2 51.4 143.4 Q. rubra 803	C-4 C-2	C-4 T21 B-4	B-4 B-4	B-4 T19+1T A-5	B-4 C-3 A-5	C-3	C-4	B-3 A-5 T26	A-4	C-3 A-4
Q. velutina			A-4 Sp							
5-10 11.6 13.2 37.2 Tilia amer 271.6				A-5 T20		C-4 T35 +3Sp	A-5 Sd		B-4 T37 +1T	
Ulmus amer							C-5 T33 +4T +4Sp			
1-1 2.3 1.3 5.4 Ulmus fulva 44.3				A-3						
Distance	15 19 15 31	16 24 27 24	19 21 10 24	22 37 19 27	14 18 8 29	11 29 15 25	17 30 21 13	6 36 21 31	23 23 38 33	16 27 17 6

CI = 1739.7

ave.

21.5'

94/ac.

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1564

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum	17+124 19+3 (10)			99 25	1			12	1	1
A. saccharum			18 30		1				29	
Betula papy.										
Carpinus car										
Carya cord							19	14		
C. ovata		54 123	95 27	173	130 33	117			94	69
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am							1			
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg	3	17	3	3	1	17	3 19 19	4	1	2 2
Populus gran										
P. tremul										
Prunus serot										
Quercus alba	102	180			178			122		
Q. ellipsoid										
Q. macrocarpa										
Q. rubra							243	195		97
Q. velutina										
Tilia amer		1		12	1		15 14	2	15 14	2 26 15
Ulmus amer										
Ulmus fulva			1							1
Canopy	65		85		50		80		75	
Sap	34 710	38 79	1320 1521	108 1014	75 929	74 715	213 613	14 717	414 64	89 114
Distance	11 21 12 27	12 18 14 23	17 9 7 10	6 11 9 12	16 10 9 16	4 11 5 18	10 14 10 11	5 13 6 17	17 22 7 11	15 20 18 12

Quite heavily selec. cut
nearly all the big stuff, esp red & white oak

few reds split, hardly any white

Big reds & white ~ 100

Q with a lot of red maple, but it wasn't cut much,

(#23 was stand w red maple cut,

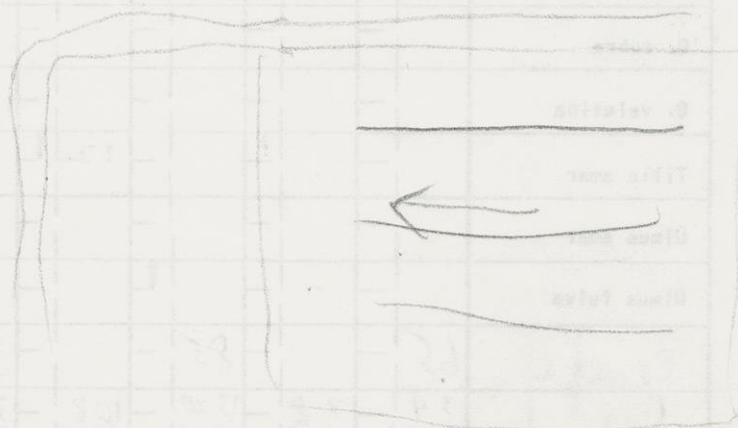
Was ~ to this stand & CC)

Q all over 110

no split

(just cut)

N
15° W slp



20.6%

1564

CI = 1917

	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															2 1
Querc. alba 3	1	1		1		2			2	2	1	1	2					20 12
Pop. grand. 12	4	4	1															8 5
Carya ovata 3	1		1	1	2	3	4	5	3 0	5	10	2						44 27 3
Querc. rubra 3	1	3 0	1	1	1				3 0	1			1	1				20 12 3 5
Juglans nig.																		
Frax. amer. 26	9																	
Acer rubrum 46	16	8 0	6	6 0	3 0	2 0	1		3 0	2 0								50 31 11 17
Tilia amer. 81	28	14	5 0	2 0		1 0		3 0	1	1 0								44 27 10 16
Jug. cinerea 3	1																	
Ulmus amer.																		
Celtis occ.																		
Ulm. rubra 20	7	3	1			1												8 5
Carya cord.		2																3 2
Ostrya virg. 232	81	20	8 0															46 28 2 3
Acer sacc. 20	7	5	2	2						1								16 10

156

Sap CI = 2357

160 28
44

#/acre

449

161.4

32.6

52.2

13

1.6

261

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

10N5E SE 3
Stand No. 1564
Quadrat No.

Sank Co.

Actaea pachypoda
✓ Adiantum pedatum 7
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata 134567810
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis 1310
A. racemosa
Arenaria lateriflora
✓ Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
✓ Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum 4,5
Campanula americana
✓ Carex albursina
C. pennsylvanica 123678910
Caulophyllum thalictroides
Celastrus scandens 4
Circaea quadrisulcata 34710
Claytonia virginiana
Cornus alternifolia
✓ C. femina 10
✓ C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
✓ Desmodium glutinosum 56
D. nudiflorum 8910
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Additional species:

• Asclepias 1247
• Carya ovata 169
• Prunus virginiana
• Prunus serotina 249
• Acer rubrum 23
• Frag. am. 47 & 10

Eupatorium rugosum
Festuca obtusa
✓ Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum 34
G. lanceolatum
G. triflorum
Geranium maculatum 1345678
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
✓ Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii 10
Hydrastis canadensis
Hydrophyllum virginianum
✓ Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 15
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia 48
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 3
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium 8
Parietaria pennsylvanica
Parthenocissus inserta 6
Phlox divaricata
Phryma leptostachya 310
Podophyllum peltatum
Polemonium reptans

✓ Dioscorea 7
Tilia 8

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 5
Prenanthes alba
✓ Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
✓ Rhus radicans 5
Ribes americanum
✓ R. cynosbati
R. missouriense
Rosa sp. 8
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 4
Veronicastrum virginicum
Viburnum acerifolium 138910
✓ V. rafinesquianum 10
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ. 3
Zizia aurea

• Viola eriocarpa 3
• Asclepias lateriflora 5
• Asclepias 5

Actaea pachypoda
 Adiantum pedatum 15
 Agrimonia gryposepala
 Amelanchier spp. 5
 Amphicarpa bracteata 80
 Anemonella thalictroides
 Apocynum androsaemifolium
 Aralia nudicaulis 30
 A. racemosa
 Arenaria lateriflora
 Arisaema atrorubens 10
 Aster macrophyllus 5
 A. sagittifolius 5
 A. shortii
 Athyrium filix-femina
 Botrychium virginianum 5
 Brachyelytrum erectum 20
 Carex albursina
 C. convoluta 5
 C. pennsylvanica 80
 Caulophyllum thalictroides
 Celastrus scandens 5
 Circaea quadrisulcata 45
 Cornus alternifolia
 C. femina 15
 C. rugosa
 Corylus americana 5
 Cryptotaenia canadensis
 Desmodium glutinosum 25
 D. nudiflorum 15
 Dioscorea villosa 5
 Eupatorium purpureum 5
 E. rugosum
 Festuca obtusa
 Fragaria virginiana 5

Additional species:

- Aster lateriflorus 15
 - Asclepias exaltata
 - Cypripedium calce.

- Acer rub. 25
 - Carya ovata 30
 - Fraxinus amer. 45
 - Ostrya 30
 - Prunus serot 15
 - P. alba 5
 - Tilia 20
 - Ulmus 10

Galium aparine 5
 G. circaezans
 G. concinnum 20
 G. lanceolatum
 G. triflorum
 Geranium maculatum 70
 Geum canadense
 Hackelia virginiana
 Helianthus strumosus
 Hepatica acutiloba
 Hydrophyllum virginianum
 Hystrix patula 5
 Impatiens biflora
 Lactuca biennis 20
 Laportea canadensis
 Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia 10
 Monarda fistulosa
 Osmorhiza claytoni 10
 O. longistylis
 Oxalis violacea
 Panicum latifolium 5
 Parietaria pennsylvanica
 Parthenocissus vitacea 15
 Phlox divaricata
 Phryma leptostachya 15
 Podophyllum peltatum
 Polemonium reptans
 Polygonatum canaliculatum
 P. pubescens
 Polygonum virginianum
 Potentilla simplex 10
 Prenanthes alba 5
 Prunus virginiana 5

- Prunella vulgaris
 - Hamamelis virgin. 5
 - Heuchera rich. 5

Pteridium aquilinum
 Pyrrola elliptica
 Ranunculus abortivus 5
 R. recurvatus
 R. septentrionalis 5
 Rhus radicans 10
 R. cynosbati
 R. missouriense
 Rosa sp. 5
 Rubus allegheniensis
 R. occidentalis
 R. strigosus
 Sambucus canadensis
 Sanguinaria canadensis
 Sanicula gregaria 5
 S. marilandica
 Smilacina racemosa 5
 S. stellata
 Smilax ecirrhata
 S. herbacea
 Solidago canadensis
 S. flexicaulis
 S. ulmifolia 5
 Thalictrum dioicum 5
 Triosteum perfoliatum
 Uvularia grandiflora 10
 Veronicastrum virginicum
 Viburnum acerifolium 40
 V. lentago
 V. rafinesquianum 10
 Viola cucullata
 V. pubescens
 Vitris aestivalis
 V. riparia
 Zanthoxylum americanum 5

- Smilax hispida 5
 - Viola eriocarpa 10

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 1564
Quadrat No.

Actaea pachypoda
Adiantum pedatum 4 9
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata 1 2 4 5 6 8 9 10
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis 1 3 7
A. racemosa
Arenaria lateriflora
Arisaema atrorubens 7 9
Asarum canadensis
✓ Aster macrophyllus 2
A. sagittifolius 2
A. shortii
Athyrium filix-femina
✓ Botrychium virginianum 3
Brachyelytrum erectum 2, 8
Campanula americana
Carex albursina 4
C. pensylvanica 1 2 5 6 7 8 9 10
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 1 4 5 6 7
Claytonia virginiana
Cornus alternifolia
C. femina 1 2
C. rugosa
Corylus americana 4
Cryptotaenia canadensis
Cyripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 2 3 4
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum 8

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana 2
Galium aparine 4
G. circaezans
G. concinnum 4 6
G. lanceolatum
G. triflorum
Geranium maculatum 2 3 4 5 6 7 8
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula 4
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis 1 9
Laportea canadensis
Lathyrus ochroleucus
✓ Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 4
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 2 9
Phlox divaricata
Phryma leptostachya 9
✓ Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 7
Prenanthes alba 5
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus 4
R. recurvatus
R. septentrionalis
Rhus radicans 3
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
✓ Sanicula gregaria 6
✓ S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides 7
Solidago altissima
S. flexicaulis
S. ulmifolia 8
✓ Thalictrum dioicum 3
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora 8
Veronicastrum virginicum
Viburnum acerifolium 1 5 8
V. rafinesquianum 2
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Astrya 14
P. alba 1
Campanula 14 6
Tripteris 2 5 7 8 10
A. rubrum 2 8 9
Amelanchier 5
Prun. virg 8
Ulmus 8 10
Tilia 8 9 10

Viol. eriocarp 1
Aster lateriflorus 2, 6
Aster multiflorus 2 6
Aster sp. 8

1564

CI = 1917

Sap - 2357 + 2

H 331 S

750

550

350

250

150

100

50

25

1 4 7 10 13 16 19 22 d

