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1540	STAND #	STAND CHARACTERISTICS	SOILS	STAND #	1540
1003	TREE	C.I.	W.R.C.		67.8
1642	SAP	C.I.	pH		5.8
+637	C.I.	DIFFERENCE	lbs/acre		
			CA		60
			Mg		210
			P		3
			K		20
			NO ₃		
			NH ₃		
108	SAPS	/ACRE			
297	TREES	/ACRE	Soil profile		A ₀ 1 A ₁ 2" silt loam
45	AVE. B.A.	STEM			
71	AVE BA	TREE	SLOPE		5° E
21152	DOM.	/ACRE			10 acres 3 sides 60 acres
580	stems	+ sps/acre	CUTTING STUMPS/ACRE		
472	stems	/acre	Spp. cut		
1,59	STEMS	/TREE			
			AVE. size cut		
69	CANOPY %		AVE. TIME SINCE CUT		

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1540

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum	2	1	1					18+3		1
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ					1					
Crataegus sp.					1	1				
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot		34 26 62	47 32	46	57		32 45	65	43	28
Quercus alba	27 20	42+1 28+1	27 14 13	29 30	29 21 23	2 96	28	24 16 17 12	22 18 15	48 31
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina	122 74	61 72 32	1 78	90	25 48 63	23 29 57 50 25	11 24 28 15 37	50 94	105 78	
Tilia amer										
Ulmus amer									18	
Ulmus fulva			1	1	1	1		1	2	2
Acer neg.										1
	26 12 22 25	8 26 10 23	7 21 16 38	24 27 32 34	27 10 37 22	20 40 30 23	29 33 38 39	27 35 12 40	72 46 29 49	5 15 13 34
Distance	7 9 21 12	15 19 16 10	4 13 7 11	6 5 12 11	19 10 6 12	9 6 10 9	13 10 13	7 9 8 15	17 7 13 8	10 18 17 9

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1540

STATION NO.	1	2	3	4	5	6	7	8	9	30
<i>Acer rubrum</i>		1	1		25 15 254 4 5323			1	2	1
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>										
<i>C. ovata</i>						1				
<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>	26						18	31	40	
<i>P. tremul</i>										
<i>Prunus serot</i>	(54)	1		57	(58) 82	65			(75) 35 59 31 21	1
<i>Quercus alba</i>	91	(48) 21	(22) 15	(14)	1	(20 13) 28 31 28	(19) 19	(33)	(1)	(17)
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>									1	1
<i>Q. rubra</i>			(35)		(82 51) 85			(69) 103		(62) 42 15 56 73
<i>Q. velutina</i>	101	(27 46) 88	(45 39) 64 17	(35) 20 42	(50)		(54) 65	(34) 35	(47 32) 96	(27)
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>	4	1	3	1		2	3	2	1	
<i>Acer neg</i>		1								1
	7 14 13 16	17 28 21 28	22 18 13 26	19 20 13 27	8 10 14 17	21 14 22 22	6 15 8 15	2 12 11 17	13 27 18 14	2 22 21 30
Distance	15 16 6 33	10 12 11 12	6 9 8 10	5 13 10 4	14 15 6 22	9 15 7 20	9 23 11 14	9 21 12 8	27 7 7 14	24 5 18 8
	60		65		80		70		75	

2 Stumps of P. vel just cut,
were stump shot, 51 + 22 yrs.

∴ cut twice, 50 + 25 yrs ago?

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1540

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i>			1		1		2	3	2	
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>										
<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>										
<i>Populus gran</i>				56 31						
<i>P. tremul</i>										
<i>Prunus serot</i>	24	60	25			16		28		1
<i>Quercus alba</i>	54 (30 17)	1	18 46	59	15 18 (55 45)		2 20 21	2 18 (35 26)	(25) 326 0.6	1 74 (21 41) 18 35
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>		44 60								
<i>Q. rubra</i>		60 81 (47 57)	109 93	32 67	161 53 (51 18)	60 87 15 32 (90 30 50)	74 38 70 (58 42)		88 48 (52)	41 37 (14)
<i>Q. velutina</i>		55 43 (47 57)	93	32 67	161 53 (51 18)	60 87 15 32 (90 30 50)	74 38 70 (58 42)		88 48 (52)	41 37 (14)
<i>Tilia amer</i>						16 26 (80)				
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>	1	2	2	3	2	1		1		3
<i>Acer neg.</i>	1									
	35 10 38 40	31 36 26 38	8 11 24 22	4 22 11 17	14 13 8 13	16 18 6 21	19 11 4 15	8 16 18 8	5 19 22 21	28 5 21 18
Distance	3 14 11 10	3 18 23 13	9 11 10 13	20 11 13 10	4 7 15 14	20 12 14 19	10 13 9 23	9 14 12 15	9 18 15 6	14 19 7 8
	70		75		75		60		75	

Soil A₀ 1"

A₁ 2" silt loam

Nearly CC c. 40 yrs. ago.

Wht + black (X red, some of) oak
cherry. Cut

Reprod. - dm, red maple
wht oak, cherry

Mineral Pt. Rd.

→

alt E. slp

road, going to bridge
back in here.

CI

Av BA 1540

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	II : Seed	F. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. : I. I.	C. I. : C. I.	TR : TR	ST : ST
Acerrubrum	2	2	165	16	26	18.4	21.7	60.1	420.7	2.6	1.7	1.9	6.2	43.4	82.5	33
A. saccharum																
Carya cord.																
C. ovata				1	1	1.2	.8	3.0	13.5							
Celtis occiden.				1	1	1.2	.8	3.0	24.0							
CRATAEGUS Fagus grand.				2	2	2.3	1.7	6.1	6.1							
Fraxinus amer.																
F. lanceolata																
F. pennsylvani																
Juglans cinere																
J. nigra																
Ostrya virgin.																
Populus grand.	5	6	212							6.5	5.0	2.5	14.0	60.2	35.7	35.7
P. tremuloides																
Prunus serotin	17	17	164	11	11	12.6	9.2	32.7	117.7	22.1	14.2	13.7	50.0	180	62.5	44.8
Quercus alba	25	46	2001	21	26	24.1	21.7	68.7	247.3	32.4	38.3	23.5	94.2	339.1	43.5	33.4
Q. ellipsoidalis																
Q. macrocarpa				3	3	3.4	2.5	8.9	8.9							
Q. rubra	3	3	516							3.9	2.5	6.1	12.5	70.0	172	73.7
Q. velutina	24	45	4451	3	3	3.4	2.5	8.8	22.0	31.2	37.5	52.1	120.8	302.0	98.9	51.8
Tilia american				1	1	1.2	.8	3.0	21.9							
Ulmus american	1	1	18							1.3	.8	.2	2.3	10.6	18	18
U. rubra				23	41	26.4	34.2	90.9	745.4							
Acer negundo				5	5	5.7	4.2	14.8	14.8							
	77	120	8527	87	120	99.9	100.1	300	1642.3	100.0	100.0	100.0	300	1005.3		

Ave. Dist. Btw'n Trees	12.1	SAP 20.1
Ave. BA (Total BA ÷ 80)	71.1	stem 44.6
No. Trees Per acre	297.5	SAP 107.8
Dom. per acre	21,152,2	

1.59 stems/tree

+637

Canopy 69%

Ave. Dist.

Btw'n Trees

12.1

SAP
20.1

Ave. BA

(Total

BA ÷ 80)

71.1

stem
44.6

No. Trees

Per acre

297.5

SAP
107.8

Dom. per

acre

21,152,2

Stems
Q. alba
Q. rubra
Q. velut.

	1	2	3	4	5	6	Tot.
Q. alba	33	12	1				46
Q. rubra		2	1				5
Q. velut.	19	17	6	1	1	1	45

Q. rub-vel

	singles	mult.	trees	stems	% mult	st/h
Q. alba	33	13	46	60	28.3	1.3
Q. rubra		3	3	7	100	2.33
Q. velut.	19	26	45	86	57.8	1.91
	52	44	96	153	45.8	1.59
Q. rub-vel	19	29	48	93	60.4	1.94

Only multiple

	mult.	stems	stems/tree
Q. alba	13	27	2.08
Q. rubra	3	7	2.33
Q. velut.	26	67	2.58
	42	101	2.4
Q. rub-vel	29	74	2.55

#	% sprt	% mult
29	63	44.8
3	100	100
38	84.4	68.4
41	85.4	70.7

sprt origin

Ave. HA
(Total)
PA + 80
No. Trees
Per acre
Dom. per
acre

U. rubra
Ulmus americana
Tilia americana
Q. velutina
Q. rubra
Q. macrocarpa
Q. ellipticalis
Quercus alba
Pyrus serotina
P. fremontoides
Populus grand.
Ostrya virgin.
J. nigra
J. chinensis
P. pennsylvanica
P. lanceolata
Fraxinus cuneata

1540

CI = 1005

Cataegus

	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	
ACER NEGUNDO																		
Pop. trem.	4	5																
Quercus ellip.	2	2																
Q. macrocarp.	3	3																
Q. velut.	3	3	2	4②	6③	8④	6⑤	6⑥	7⑦	5⑧	1⑨							111 45④ 102
Prun. serot.	10	11	1	4		3②	5③	3④	1⑦									42 17② 22
Querc. alba	23	26	13①	15⑧	8③	4④	3⑤		1							1		115 46④ 34
Pop. grand.			1		3	1	1											15 6
Carya ovata	1	1																
Querc. rubra							1①	1②	1③									7 3④ 16
Juglans nig.																		
Frax. amer.																		
Acer rubrum	23	26	1			1③												5 2③ 7
Tilia amer.	1	1																
Jug. cinerea																		
Ulmus amer.			1															2 1
Celtis occ.	1	1																
Ulm. rubra	37	41																
Carya cord.																		
Ostrya virg.																		
Acer sacc.																		

120

Sap CI = 1642

120⑦
175

#/acre

108

146

104

44.6

2.4

297

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Actaea pachypoda
✓ Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata³
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. sagittifolius¹
A. shortii
✓ Athyrium filix-femina
Botrychium virginianum¹¹
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica⁴⁶⁸⁹
Caulophyllum thalictroides
✓ Celastrus scandens
Circaea quadrisulcata¹²⁴⁵⁹¹¹¹²¹⁴¹⁶¹⁷
Claytonia virginiana
Cornus alternifolia
C. femina²³⁵⁶¹¹¹⁵²⁰
✓ C. rugosa²⁰
Corylus americana⁴⁷⁹¹¹¹³¹⁴¹⁵¹⁸
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
✓ Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
✓ Eupatorium purpureum¹²³³⁶⁷⁸⁹¹⁰¹³¹⁵¹⁶¹⁸

Additional species:

Eupatorium rugosum²
Festuca obtusa
Fragaria virginiana
Galium aparine⁴⁵⁸
G. circaeans
G. concinnum³⁹¹⁴¹⁹
G. lanceolatum
G. triflorum
Geranium maculatum⁴⁹¹¹¹³
Gerardia grandiflora
Geum canadense³⁴⁸⁹¹⁴¹⁶²⁰
Goodyera pubescens
Habenaria bracteata
Hackelia virginica^{2,18}
Hamamelis virginiana
Helianthus strumosus²⁶
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis³¹⁵
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia³
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa²⁰¹⁹¹⁸¹⁶
Osmorhiza clayton.²³⁵⁶⁸⁹¹¹¹²⁴¹⁵
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica¹⁴
Parthenocissus inserta¹³⁹¹²¹⁸
Phlox divaricata
Phryma leptostachya³⁸¹⁷¹⁹
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
✓ Prenanthes alba
Pteridium aquilinum
Pyrola elliptica¹⁴
✓ Ranunculus abortivus¹⁴
R. recurvatus
R. septentrionalis
Rhus radicans¹⁶¹⁷
Ribes americanum
✓ R. cynosbati⁶¹⁰
R. missouriense
Rosa sp.
Rubus allegheniensis²⁰¹⁹¹⁴¹³¹¹
R. occidentalis¹²³⁴⁵⁶⁷⁸⁹¹⁰
✓ R. strigosus⁴⁶⁹¹⁶¹⁹
✓ Sambucus canadensis⁶¹⁶²⁰
Sanguinaria canadensis
Sanicula gregaria¹¹
S. marilandica
✓ Smilacina racemosa⁵⁷⁹¹³¹⁹²⁰
✓ S. stellata
Smilax ecirrhata
✓ S. herbacea
S. tamnoides
✓ Solidago altissima²⁰
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 cucullata⁰¹⁴
V. pubescens
Vitis aestivalis
V. riparia⁵⁷⁸²⁰
Xanthoxylum americ.
Zizia aurea

Pilea 518

✓ Vibo. lentago
✓ Urtica 4
Cirsium 4
✓ Santum
Nepeta 5

Prunus 123367891013151618
Ulmus 10141519
Prun. v. 215
Acer rub. 2101417
Acer neg. 11
A. melanocarpum

Actaea pachypoda
 Adiantum pedatum
 Agrimonia gryposepala
 Amelanchier spp.
 Amphicarpa bracteata 5
 Anemonella thalictroides
 Apocynum androsaemifolium
 Aralia nudicaulis
 A. racemosa
 Arenaria lateriflora
 Arisaema atrorubens
 Aster macrophyllus
 A. sagittifolius 5
 A. shortii
 Athyrium filix-femina
 Botrychium virginianum 5
 Brachyelytrum erectum
 Carex albursina
 C. convoluta
 C. pensylvanica 20
 Caulophyllum thalictroides
 Celastrus scandens
 Circaea quadrisulcata 50
 Cornus alternifolia
 C. femina 35
 C. rugosa 5
 Corylus americana 40
 Cryptotaenia canadensis
 Desmodium glutinosum
 D. nudiflorum
 Dioscorea villosa
 Eupatorium purpureum
 E. rugosum 5
 Festuca obtusa
 Fragaria virginiana

Additional species:

- Artem. min.
 - Cirsium alt 5

- Acer neg. 5
 - A. rubrum 20
 - Prunus serot 65
 - Q. velut 15
 - Ulmus 25

Galium aparine 15
 G. circaeans
 G. concinnum 20
 G. lanceolatum
 G. triflorum
 Geranium maculatum 20
 Geum canadense 35
 Hackelia virginiana 10
 Helianthus strumosus 10
 Hepatica acutiloba
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens biflora
 Lactuca biennis 10
 Laportea canadensis
 Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia 5
 Monarda fistulosa
 Osmorhiza claytoni 70
 O. longistylis
 Oxalis violacea
 Panicum latifolium
 Parietaria pensylvanica 5
 Parthenocissus vitacea 25
 Phlox divaricata
 Phryma leptostachya 20
 Podophyllum peltatum
 Polemonium reptans
 Polygonatum canaliculatum
 P. pubescens
 Polygonum virginianum
 Potentilla simplex
 Prenanthes alba
 Prunus virginiana 10

- Pilea fern. 20
 - Nepeta cat 5

Pteridium aquilinum
 Pyrola elliptica 5
 Ranunculus abortivus 5
 R. recurvatus
 R. septentrionalis
 Rhus radicans 10
 R. cynosbati 10
 R. missouriense
 Rosa sp.
 Rubus allegheniensis 25
 R. occidentalis 40
 R. strigosus 25
 Sambucus canadensis 15
 Sanguinaria canadensis
 Sanicula gregaria 5
 S. marilandica
 Smilacina racemosa 30
 S. stellata
 Smilax ecirrhata
 S. herbacea
 Solidago canadensis 5
 S. flexicaulis
 S. ulmifolia
 Thalictrum dioicum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virginicum
 Viburnum acerifolium
 V. lentago
 V. rafinesquianum
 Viola cucullata 10
 V. pubescens
 Vitris aestivalis
 V. riparia 20
 Zanthoxylum americanum

- Urtica 5

1540

CI = 1005

Jap - 1642 + 1

H - 307 + 2

