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[s.l.]: [s.n.], 1956-07-09

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1502

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 3C

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata	7	9		19			24 60	17 1/2	18 45	
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	35	10 25	9 1/2 24		23	19 50	4 15	15 24 (3)		30 21
Quercus alba	110 20	8	35	65 95 24 (1)	12 1/2	23		21		24
Q. ellipsoid				80						
Q. macrocarpa	24	13 30	11		26	11 22 (1)	18	9 1/2	19	18 24
Q. rubra		15 (1) 21			35	11	21	11 1/2	14	24 15
Q. velutina	30 (3)		13 40		16 45 (2)	85	70 (1)	14 60 32 (1) 40 (1)	35 40 40	13 33 (3)
Tilia amer										
Ulmus amer										
Ulmus fulva										
Distance	9 1/2 20	20 23	8 1/2 10	9 10	9 12 1/2	3 16	8 1/2 17	9 10	9 1/2 18	6 10
	16 14	10 1/2 13	13 12	10 1/2 10	20 20	13 1/2 16	11 17	16 22	3 8	4 13
	13 13	13 10 1/2	8 1/2 13	ditto	9	5 11	11 6	7 10	4	13 10
	26		12 27					8		

Stumps

45
45
28
70
40
13
53

25
30
18
15
15

22 11
18 18
10 10
9

Stand No. 3C

174.24

light inten. outside 8000 fc + 7000

180

160

$$\frac{182}{7500} \times 100 = \frac{182}{75} = 2.42\%$$

160

150

230

240

120

200

130

250

820

1000 = 10/1820

$$\begin{array}{r} 2.42 \\ 75 \overline{) 182.0} \\ \underline{150} \\ 320 \\ \underline{300} \\ 20 \end{array}$$

Soil + air temp. soil 19°C air 28°C
19½°C 28½°C

Soil Samples A₀ ½" ¼" silt loam Miami series
A₁ 2" 2" sandy loam

Soil water permeability 55 } where watered 5 hrs. B4
50 }
60 } 25 sec. where not watered.

1502

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STATION NO.	1	2	3	4	5	6	7	8	9	10										
Acer rubrum																				
A. saccharum																				
Betula papy.																				
Carpinus car																				
Carya cord																				
C. ovata	90 55	20 23 10 35		24 55 85	17		10 35	19 13 16	14 1/2											
Celtis occ																				
Crataegus sp.																				
Fagus grand																				
Fraxinus am																				
F. nigra																				
Juglans cin.																				
J. nigra																				
Ostrya virg																				
Populus gran									80	7 7										
P. tremul																				
Prunus serot	55 70		35 17		25	50 20	10 35	5 25 10 40	4 30 6 16	35 9 6										
Quercus alba		10	23 ②			5														
Q. ellipsoid						118														
Q. macrocarpa			26 30	25	13 17	23 35	22 17		11 20	19 32 8 1/2										
Q. rubra						35 ③														
Q. velutina		60 29	14 50 90 ②	18 45 ② 22 37 ②	35 50 ③ 28 ①	65 40 ①	40 ① 45 ③	50		40 ① 30 30 ①										
Tilia amer																				
Ulmus amer		110																		
Ulmus fulva		110																		
Distance	14 20 15	15 18 13	15 8 19	9 4 14	14 18 15	17 7 14	7 1/2 25 7 1/2	13 21 21	8 7 8	24 16 16	10 10 10	18 22 10	7 16 7	22 16 18	15 10 10	15 22 10	9 1/2 10 10	17 7 1/2 10	7 1/2 11 30	21 30 7 1/2

Stamp

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 3C

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		6 70	19 22 20 22				8	23 10	20	
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul	10 15 18 25 6 19									
Prunus serot		18 30 11		12 18 75 13 23 150		19 26		3 15	9 13	
Quercus alba			25				4 35 137 15			37 55
Q. ellipsoid		9		17	15	12			12 24 16	25
Q. macrocarpa	7 28	2 3 19 6	12	5 13 35 22		16	19		20 2 45 12 4 35 21	
Q. rubra		10 24	25	8 14	8 13	7 9			18 9 35 25 7 16 4	9
Q. velutina		10 1/2 60 10 13 60			24 290 11 1/2 80	25 23 15 35 4 60 7 15	7 13 17 30 11 1/2 23			13 120
Tilia amer										
Ulmus amer				8 1/2 50 8 15						
Ulmus fulva				8 1/2 50 8 15						
Distance	6 35 15 46	7 20 14 26	13 5 25 25	32 - - -	4 - - -	25 15 4 -	13 19 20 44	16 11 13 17	12 15 35 -	

240.25
2424

Norbert Laufenberg -

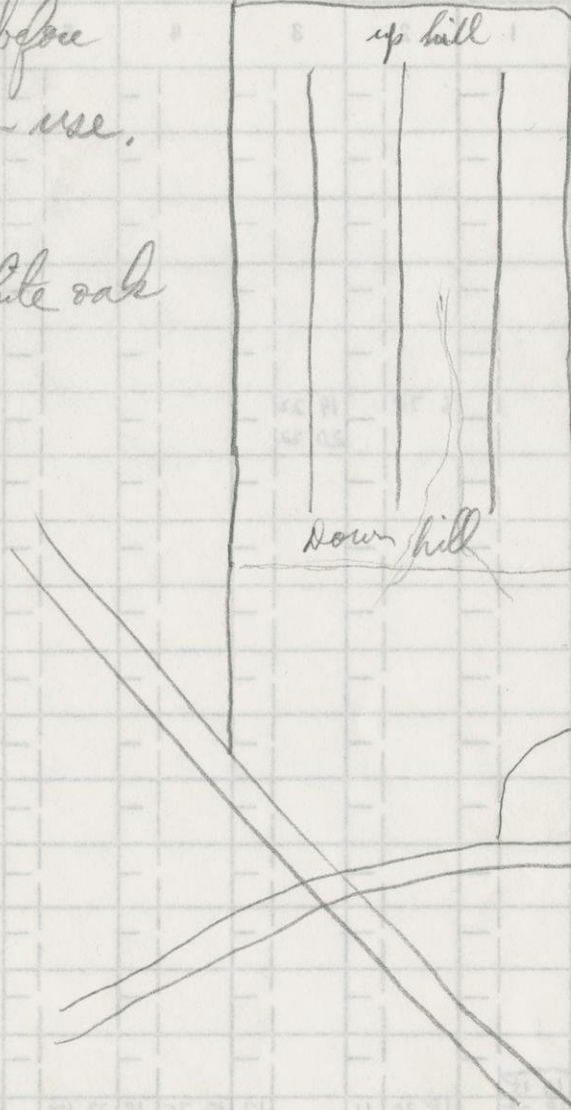
Had 28 years, his father before
him. Cut for their own use.

(selective cutting)

Cut Mostly black, some white oak
& some other

No grazing

Gently sloping



Not used - diff dominance measurement
(Didn't get mult-stems)

1502

C.I.															
No. : No. :	No. Pts. : No. :	F. % : D. % :	I. I. : F. % :	F. % : D. % :	Dom. % :				Ave. :						
Tree	Pts. : Tr. :	Dom. :	Sap. :	Sap. :	Sap. :	Sap. :	Seed :	Seed :	Tr. :	Tr. :	Trees :	I. I. :	C. I. :	B. A. :	
Acerrubrum															
A. saccharum															
Carya cord.															
C. ovata	12	18	824	20	27	21.6	17.3	58.3	262.3	12.8	11.2	11.8	35.8	161.1	46
Celtis occiden.															
Fagus grand.															
Fraxinus amer.															
F. lanceolata															
F. pennsylvani															
Juglans cinere															
J. nigra															
Ostrya virgin.															
Populus grand.															
P. tremuloides	1	1	80	2	4	2.2	2.6	7.2	7.2	1.1	.6	1.1	2.8	2.8	80
Prunus serotin	27	38	1256	20	26	21.6	16.7	57.4	206.6	28.7	23.7	18	70.4	253.4	33
Quercus alba	9	15	717	9	10	9.7	6.4	24.1	86.8	9.6	9.4	10.3	29.3	105.5	48
Q. ellipsoidalis															
Q. macrocarpa	12	17	459	35	79	37.6	50.6	132.3	132.3	12.8	10.6	6.6	30	30	27
Q. rubra															
Q. velutina	31	68	3453	6	8	6.5	5.1	17.4	43.5	33	42.5	49.6	125.1	312.7	51
Tilia american															
Ulmus american	2	3	175	1	2	1.1	1.3	3.6	27.4	2.1	1.9	2.5	6.5	29.9	58
U. rubra															
	94	160	6964	93	156	100.3	100	300.3	766.1	100.1	99.9	99.8		895.4	

Ave. Dist.
Btw'n Trees
13.2 / 15.5

Ave. BA
(Total
BA = 80)
43.5

No. Trees
Per acre
250 / 181

Dom. per
acre
10,875

Sap dec. 148.8

July 9, 1956

Stand No. 3C

Quadrat No.

8N8E SW3

1502

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

(alba)
 Actaea pachypoda
 Adiantum pedatum
 Agrimonia gryposepala
 Allium tricoccum
 Amphicarpa braceata 9 10 11 16 17
 Anemone quinquefolia
 A. virginiana
 Anemonella thalictroides
 Antennaria sp.
 Aplectrum hiemale
 Apocynum androsaemifolium
 Aquilegia canadensis
 Aralia nudicaulis 16, 19
 A. racemosa 10
 Arenaria lateriflora
 Arisaema atrorubens
 Asarum canadensis
 Aster macrophyllus
 A. sagittifolius 13 14 19
 A. shortii
 Athyrium filix-femina
 Botrychium virginianum
 Brachyelytrum erectum
 Campanula americana
 Carex albursina
 C. pensylvanica 12 35 11, 12 18 19 20
 Caulophyllum thalictroides
 Celastrus scandens 9
 Circaea quadrisulcata 12 45 6 7 8 9 10 11 12 13 14
 Claytonia virginiana 15 16 17 18 19 20
 Cornus alternifolia
 C. feminalis 14 6 11 13 16 17
 C. rugosa
 Corylus americana 20
 Cryptotaenia canadensis
 Cypridium pubescens
 Cystopteris fragilis
 Dentaria laciniata
 Desmodium glutinosum 12 4 6 10 12 15
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum
 Eupatorium purpureum

Eupatorium rugosum 10
 Festuca obtusa 1
 Fragaria virginiana
 Galium aparine
 G. circaezans
 G. concinnum 45 78
 G. lanceolatum
 G. triflorum
 Geranium maculatum 14 6 7 8 9 10 11 12 13 14
 Gerardia grandiflora 16 17 18
 Geum canadense 78 10
 Goodyera pubescens
 Habenaria bracteata
 Hackelia virginica
 Hamamelis virginiana
 Helianthus strumosus 6 10 14
 Hepatica acutiloba
 Heuchera richardsonii
 Hydrastis canadensis
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens capensis
 I. pallida
 Isopyrum biternatum
 Lactuca biennis 7
 Laportea canadensis
 Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia 19
 Maianthemum canadensis
 Menispermum canadensis
 Mitella diphylla
 Monarda fistulosa
 Orchis spectabilis
 Oryzopsis racemosa
 Osmorhiza clayton. 34 9 11 13 16 17 18 19 20
 O. longistylis
 Osmunda claytoni
 Panax quinquefolia
 Panicum latifolium
 Parietaria pennsylvanica 12 14 17 19 20
 Parthenocissus inserta 12 5 6 7 9 10 11 13 14
 Phlox divaricata 16 17 18 19 20
 Phryma leptostachya 45 9 10 11 13 15 17 18
 Podophyllum peltatum
 Polemonium reptans

Polygonatum canaliculatum 23 56 9 10 12
 Polygonatum pubescens 14 15 16 18 19
 Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 Pyrola elliptica
 Ranunculus abortivus 8
 R. recurvatus 37 16 19
 R. septentrionalis
 Rhus radicans 14 15
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp. 11
 Rubus allegheniensis 11, 12
 R. occidentalis 12 14
 R. strigosus 24 6 8 9 10 11 15 16 20
 Sambucus canadensis 20
 Sanguinaria canadensis
 Sanicula gregaria 57 10 11 16
 S. marilandica 18
 Smilacina racemosa 9 15 20
 S. stellata
 Smilax ecirrhata 14 15 20
 S. herbacea
 S. tamnoides
 Solidago altissima 8
 S. flexicaulis
 S. ulmifolia
 Thalictrum dioicum
 Tovar virginiana
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virginicum
 Viburnum acerifolium
 V. rafinesquianum
 Viola cucullata 13, 17
 V. pubescens
 Vitis aestivalis
 V. riparia 5 10 15 16 19
 Xanthoxylum americ.
 Zizia aurea

Additional species:

- Querc. macrocarpa, sapling 12
 - Q. rubra 12 16
 - Prunus virginiana 24 56 7 20
 - P. serot 13
 - Poa compressa 4, 16
 - Ullinus americana 8 9 14
 - Corylus ovata 9 14 16 17
 - Acer rubrum 9
 - Acer negundo 18 (> 1' tall)
 - Actaea rubra 16, 17
 - Morus alba 1
 - Chenopodium album 8
 - Pilea pumila 15
 - Cirsium altissimum 8

① Grass 1 Festuca obtusa
 Bean 124610 12-15 Desmodium glutinosum
 Mulberry shd leaf 1 Morus alba
 ② Alf leaf, pale below 8 Chenopodium album
 ③ Pear vine 9 Celastrus scandens

3 cups fed 16 19 Aralia nudicaulis
 ~Kern
 something else ~ Kern 17 } Actaea rubra

(common species only)
Presence of

SOUTHERN PLYWOOD HARDWOODS

Species No.
 Stand No.
 Date of measurement

Date form No. 40

Plant Ecology Research

348E 2m3
 1205