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POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 26

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	23	2 45		1	2				1	1
C. ovata		18								
Celtis occ	2									
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra	95	14	115		75		165			
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot						60				
Quercus alba				40 45	35	35	1 120	45 80	17 70 16 30	145 2
Q. ellipsoid										
Q. macrocarpa										
Q. rubra	165	80	125 17	270				110 120		45 75
Q. velutina			110 110							
Tilia amer										
Ulmus amer										
Ulmus fulva	160 180	4	3 14	2 12 26	4 28 22	3 15 12	4 13 4	3 110 1		
	9 9 5 22	8 8 14 30	19 8 14 38	6 10 10 12	10 13 32 21	15 18 11 24	11 9 16 19	7 13 9 35	16 10 12 20	9 24 20 22
Distance	21 16 16 10	15 8 10 19	14 8 6 26	10 18 11 14	14 7 12 6	5 15 20 14	13 10 9 15	14 23 8 25	8 16 1 18	17 5 18 9

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 26

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord									60 21	
C. ovata	1					23			1	1
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										35 75
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	160		2	1				60		
Quercus alba	110	65 110	1	75	35	45	80 4070	70	1 55	105
Q. ellipsoid										
Q. macrocarpa										
Q. rubra		55 45	75 95 180	23 75			55 130	240 150	1 22	115 240
Q. velutina			110 105							
Tilia amer										
Ulmus amer										
Ulmus fulva	19 15	3	3	2 15	3 12	4 16	4 20	4	2	1 3
	9 7 4 10	8 12 5 24	12 18 20 25	17 21 17 38	15 6 18 35	6 28 16 12	10 18 23 18	8 11 16 16	5 13 13 19	3 14 6 35
Distance	8 26 14 4	5 12 23 19	10 14 14 17	9 16 24 8	15 5 10 14	7 17 16 19	8 13 10 14	10 11 22 13	16 19 16 22	14 12 8 12

Light

6000 - 4400

60
60
70
80
70

80
100
400
200
200

100
100
140
90
110

Soil

A₀ $\frac{1}{8}$

A₁ $1\frac{1}{2} - 2\frac{1}{2}$
2 - 3

Silt loam

B. Very much clay.

Temp

Soil 15° - 16°
Air 15°

45 11" diam

40 yds. 6" diam.

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 26

STATION NO.	21	2	3	4	5	6	7	8	9	30
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord		28 25 40		2	1					1
C. ovata	45		1				65			
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra				20		17	40	29		
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot				95		50		160		1
Quercus alba	45 50 65	250	32 130 95	50 85	1 100	35 32 2 135		65	90	40 45 55 90
Q. ellipsoid										
Q. macrocarpa										
Q. rubra					21		110			
Q. velutina										
Tilia amer										
Ulmus amer										
Ulmus fulva	4	4 85	3	1	1	4	18	4 30	4 23 35 40	4 1
	27 9 9 17	4 7 15 7	6 12 20 40	6 28 17 40	40 14 34 40	30 21 21 8	17 8 10 7	13 14 13 17	8 15 11 13	13 25 21 25
Distance	7 6 10 17	14 19 6 27	9 15 6 16	17 15 17 13	11 10 18 26	14 15 14 26	28 10 12 4	11 12 21 9	11 16 12 12	7 12 13 7

POINT RECORD TREES

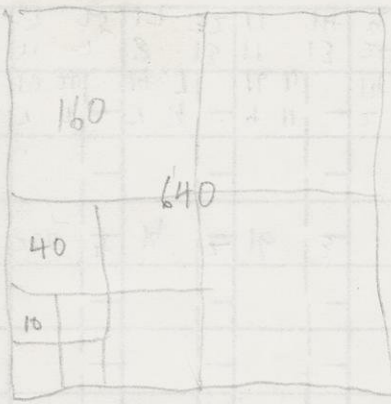
SOUTHERN HARDWOODS

Stand No. 26

STATION NO.	31	2	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord			24	1	1	2	1		1	
C. ovata		85	1	55 65	55	14				
Celtis occ	30									
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra	140	95	210							
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot					17		180			100
Quercus alba	40	75	85	200 35	115 19	1 65 70 80	140 105		100 29 85 180	120 30
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										1
Q. velutina										
Tilia amer										
Ulmus amer										
Ulmus fulva	200	4	19	2	16	3	3	15	4	14 8 4 18 29
	7 7 10 20	7 14 14 7	4 11 16 11	2 7 14 14	11 11 11 38	22 23 23 24	6 13 8 14	8 13 10 14	22 12 19 15	15 28 20 15
Distance	11 7 7 25	8 13 17 32	11 13 11 14	24 14 9 25	19 17 17 20	11 14 12 22	7 13 9 14	9 11 10 21	9 14 9 15	14 9 13 18

Ulmus fulva 61 yrs 17-18" diam. @ 2'
 52 yrs. 11-12
 50 yrs. 14-16

c. 20 BA & BH = c. 20 yrs.



POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No.

Stumps
1524

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
4.4 2.3 10.8 Carya cord 92.9							(A-3) Sd			A-2
2.4 2.3 7.1 C. ovata 32										B-2
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul			(B-2) Sd							
9.8 8.1 26.8 Prunus serot 76.5			(C-2) Sp	A-4			A-3			
31.7 32.2 95.8 Quercus alba 344.9	C-4	C-3 C-3	C-3	B-4 B-3	A-3	C-3	A-4 A-3	C-4	B-4	(A-2) Sd
Q. ellipsoid										
Q. macrocarpa										
39 41.4 120.6 Q. rubra 675.4	(C-2)		C-4	C-4	B-4 B-4	C-3 C-4	C-4 B-4	C-5 B-4	B-4 A-4	
12.2 13.8 39 Q. velutina 99.5	B-3 C-4	C-3 A-3			B-4	(B-3) Sp		A-4	B-4	
Tilia amer										
Ulmus amer										
Ulmus fulva										
Canopy	80	80	60	65	75	80	90	75	70	90
Distance	21 28 19 46	19 30 50 32	18 30 40 42	11 32 33 21	14 30 20 6	32 75 23 40	25 75 45 31	15 32 24 21	17 26 14 32	12 70 45 37

CI = 1339.2

1233
30.8

45.9

46/acre

ave.
76.5%
30.8'

																AVE B.A.	
Tree	No.	No.	No.	No.	F.	D.	F.	F.	F.	D.	Dom.					TREE	STEM
	Pts.	Tr.	Dom.	Sap.	Sap.	Sap.	Sap.	Seed	Seed	Tr.	Tr.	Trees	I.I.	C.I.			
Acerrubrum																	
A. saccharum																	
Carya cord.	5	8	266	14	18	18.9	11.2	45.1	387.9	4.7	5	2.2	11.9	102.3	33.2	Ave. Dist.	
C. ovata	8	9	425	5	5	6.8	3.1	14.8	66.6	7.5	5.6	3.6	16.7	75.1	47.2	Btw'n Trees	
Celtis occiden.	1	1	30	1	2	1.4	1.2	3.9	31.2	.9	.6	.3	1.8	14.4	30	13.6	SAP 15.6
Fagus grand.																	
Fraxinus amer.																Ave. BA	
F. lanceolata																(Total	
F. pennsylvani																PA ÷ 80)	
Juglans cinere																TREE 74.2	STEM 71.5
J. nigra	13	14	1125							12.3	8.7	9.5	30.5	192.1	80.4	No. Trees	
Ostrya virgin.																Per acre	SAP 179
Populus grand.																235.5	
P. tremuloides																Dom. per	
Prunus serotin	9	9	882	3	4	4.1	2.5	9.9	35.6	8.5	5.6	7.4	21.5	77.4	98	acre	
Quercus alba	34	61	4635	9	11	12.2	6.9	28.6	103	32.1	38.1	39	109.2	393.1	76	17,474.1	
Q. ellipsoidalis																	
Q. macrocarpa																	
Q. rubra	15	25	3073	3	3	4.1	1.9	9	50.4	14.2	15.6	25.9	55.7	311.9	122.9	106	
Q. velutina																	
Tilia american																	
Ulmus american																	
U. rubra	21	33	1439	39	117	52.7	73.1	188.7	1547.3	19.8	20.6	12.1	52.5	430.5	43.6	42.3	
	106	160	11875	74	160	100.2	99.9	300	2222	100	99.8	100	299.8	1596.8			

1.04 stems/tree

+ 625.2

CARYA CORB.
CAR. OVAT.
CELT. OCC.
JUG. NIGRA
PR. SEROT.
Q. ALBA
Q. RUBRA
ULM. FULVA

12-	23-	34-	45-	56-	67-	78-	89-	100-	125-	150-	175-	200-	250-
22	33	44	55	66	77	88	99	124	149	174	199	249	299
1	4	1	1	1									
2	1	3	3	2	1	1	1	1	1	1	1	1	1
3	1	2	1	1	1	1	1	1	1	1	1	1	1
1			1	2			1	1	2	1			
3	5	10	9	4	6	6	3	9	4	1	1	1	60
3	1		4		3	1	1	8	2	2	1	2	21
22	4	2				1		1	2	1	1	1	81
35	17	15	18	9	11	9	7	20	7	7	4	5	2

72.9%

27.1%

single
mult.
trees
stems
% mult.
stem/tree

Acetabularia
A. saccharum
Carya cord.
C. ovata
Celtis occident.
Fagus grand.
Fraxinus amer.
F. lanceolata
F. pennsylvanica
Juglans cinerea
Q. alba
Q. virginica
Populus grand.
P. tremuloides
Prunus serotina
Quercus alba
Q. ellipsoidalis
Q. macrocarpa
Q. rubra
Q. velutina
Tilia americana
Ulmus americana
U. rubra

25%

CI = 1597

1524

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.

Querc. alba

Pop. grand.

Carya ovata

Querc. rubra

Juglans nig.

Frax. amer.

Acer rubrum

Tilia amer.

Jug. cinerea

Ulmus amer.

Celtis occ.

Ulm. rubra

Carya cord.

Ostrya virg.

Acer sacc.

160

Sap CI = 2222

Av dist

13.6

Av BA

74.5

(74.2)

Trees/acre

235.5

Dom/acre

17,474

#/acre

179

88.2

64.7

51.4

23.6

7.3

235

160 (6)

9

49 33 (1)

12 8

89 61 (1)

13 9

37 25 (4)

21 14

13 9

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata 10
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 28
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 13610
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 15789
Claytonia virginiana
Cornus alternifolia
C. femina 256
C. rugosa
Corylus americana 15
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 14610
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum 2

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeazans
G. concinnum 8
G. lanceolatum
G. triflorum
Geranium maculatum 2679
Gerardia grandiflora
Geum canadense 3
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 5610
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 12345678910
Phlox divaricata
Phryma leptostachya 157810
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 2578
R. missouriense
Rosa sp.
Rubus allegheniensis 2
R. occidentalis 5
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 58
S. marilandica
Smilacina racemosa 12569
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima 5
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 cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species: -

Prunus serotina 2
Carya cord 156
Q. rubra 5
Ulmus fulva 12356810
Crataegus 1
Amelanchier 14

SOUTHERN UPLAND HARDWOODS

Presence 1524

Actaea pachypoda
 Adiantum pedatum
 Agrimonia gryposepala 5
 Amelanchier spp. 10
 Amphicarpa bracteata 20
 Anemonella thalictroides
 Apocynum androsaemifolium 5
 Aralia nudicaulis
 A. racemosa
 Arenaria lateriflora
 Arisaema atrorubens
 Aster macrophyllus
 A. sagittifolius 10
 A. shortii
 Athyrium filix-femina 5
 Botrychium virginianum 5
 Brachyelytrum erectum
 Carex albursina
 C. convoluta 30
 C. pensylvanica 45
 Caulophyllum thalictroides
 Celastrus scandens 5
 Circaea quadrisulcata 60
 Cornus alternifolia
 C. femina 30
 C. rugosa
 Corylus americana 10
 Cryptotaenia canadensis 5
 Desmodium glutinosum 55
 D. nudiflorum
 Dioscorea villosa 15
 Eupatorium purpureum 5
 E. rugosum
 Festuca obtusa
 Fragaria virginiana 10

Galium aparine 15
 G. circaeazans
 G. concinnum 20
 G. lanceolatum
 G. triflorum
 Geranium maculatum 30
 Geum canadense 35
 Hackelia virginiana
 Helianthus strumosus 5
 Hepatica acutiloba
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens biflora
 Lactuca biennis 15
 Laportea canadensis
 Lathyrus ochroleucus
 Lonicera prolifera
 Lysimachia quadrifolia 5
 Monarda fistulosa
 Osmorhiza claytoni 15
 O. longistylis
 Oxalis violacea
 Panicum latifolium 5
 Parietaria pensylvanica
 Parthenocissus vitacea 100
 Phlox divaricata
 Phryma leptostachya 65
 Podophyllum peltatum
 Polemonium reptans
 Polygonatum canaliculatum
 P. pubescens
 Polygonum virginianum
 Potentilla simplex 5
 Prenanthes alba
 Prunus virginiana 5

Pteridium aquilinum
 Pyrrola elliptica
 Ranunculus abortivus
 R. recurvatus
 R. septentrionalis 15
 Rhus radicans 10
 R. cynosbati 30
 R. missouriense
 Rosa sp.
 Rubus allegheniensis 15
 R. occidentalis 10
 R. strigosus 5
 Sambucus canadensis
 Sanguinaria canadensis
 Sanicula gregaria 30
 S. marilandica 5
 Smilacina racemosa 50
 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 5
 Viola cucullata
 V. pubescens
 Vitris aestivalis
 V. riparia 10
 Zanthoxylum americanum

Additional species:

- *Cypripedium calceolus*
 - *Aster laterif.* 5

- *Carya cord* 35
 - *Celtis Occ.* 5
 - *Crataegus* 5
 - *Prunus Serot.* 20
 - *Q. alba* 5
 - *Q. Rubra* 5
 - *Ulmus Rubra* 65

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 26
Quadrat No.

Page 2

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala 3
Allium tricoccum
Amphicarpa braceata 3810
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium 10
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrium filix-femina 10
Botrychium virginianum 6
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica 137810
Caulophyllum thalictroides
Celastrus scandens 4
Circaea quadrisulcata 1346789
Claytonia virginiana
Cornus alternifolia
C. femina 2810
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum 1246789
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana 38
Galium aparine 258
G. circaezans
G. concinnum 379
G. lanceolatum
G. triflorum
Geranium maculatum 12
Gerardia grandiflora
Geum canadense 134579
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus 8
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 8
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton 467
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta 1234567
Phlox divaricata 8910
Phryma leptostachya 123456710
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex 2
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis 4510
Rhus radicans 39
Ribes americanum
R. cynosbati 19
R. missouriense
Rosa sp.
Rubus allegheniensis 910
R. occidentalis 2
R. strigosus 2
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria 679
S. marilandica 2
Smilacina racemosa 12358
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
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum 10
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia 15
Xanthoxylum americ.
Zizia aurea

Additional species:

- Quercus alba 1
- Ulmus fulva 245789
- Celtis occ 7
- Carya cord 1258
- Prunus serot 156
- nig. 2

- Aster laterif. 6
- Carex convoluta 268161719
- Dioscorea villosa 8,9,13

1524

CI = 1597

SAP - 2222 + 2

H - 270 S

