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Site 1517: Rock County, Township 3N, Range 10E, Section 22. 1956-08

[s.l.]: [s.n.], 1956-08

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STAND RECORD

FORESTS

Stand No. 1517

Name:

County: Rock

Date: Aug. 1956

Size of Stand 25 acres

Forest Type: Q. vel. - Q. alba

Topography: rolling

Locality: Magnolia

T: 3N

R: 10E

Sec: SW of SW 22

Observers: Rogers

Size of Area Sampled: 10 acres

Soil Type:

Slope: 10°

Directions E.

Condition of Stand:

Clear cut c. 40 yrs ago

Open Grown Trees:

% Canopy: 75

Stumps:

1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁	5.5								66.7
A ₂									
B									

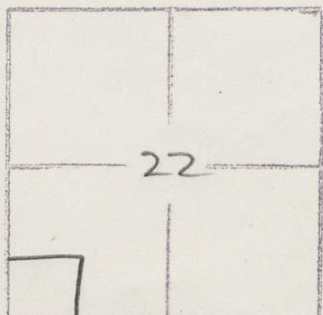
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	$\frac{1}{4} - \frac{1}{2}$	
A ₁	$1\frac{1}{2}$	silt (sand) lean
A ₂		
B		

Parent Material:

Map:



1517 Stand #

Clear

Stand #

1517

[illegible]

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 19

STATION NO.	1	2	3	4	5	6	7	8	9	20
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>									17	
<i>C. ovata</i>	2		1	1	3		2	(24 15)	(26 15 18)	4
<i>Celtis occ</i>					1					
<i>Crataegus sp.</i>										
<i>Fagus grand</i>										
<i>Fraxinus am</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>						1		1		
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>	2	3	1	3		2	2	3		2
<i>Quercus alba</i>		30		35 45 70 80	55		20	16		
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>		1	2							
<i>Q. rubra</i>										(85 95)
<i>Q. velutina</i>	24 45 130 45 50 155	60 100 40 55	(50 130) 120 80 80 80 70		70 70 75	130 60 75 55 55	80 150 50 75 45	85 85	(50 80) 90	60 45 75
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>						1				1
	17 12 13 28	11 42 40 35	30 13 12 35	5 27 16 18	7 11 22 18	21 15 11 25	6 15 20 17	8 9 25 11	17 14 15 22	7 19 8 22
Distance	9 15 9 18	10 19 12 17	6 25 14 23	8 15 16 17	10 6 14 11	5 18 9 24	8 19 7 18	17 15 5 14	7 9 6 17	8 17 9 26

55

35

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 19

STATION NO.	21	2	3	4	5	6	7	8	9	30
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>		1	1	1	24	1	1	2	35	1
<i>C. ovata</i>	1	3			40	3	1	1		2
<i>Celtis occ</i>							1		1	1
<i>Crataegus sp.</i>										
<i>Fagus grand</i>										
<i>Fraxinus am</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>			1							
<i>Ostrya virg</i>										
<i>Populus gran</i>										
<i>P. tremul</i>										
<i>Prunus serot</i>	2		2	2	4	80	1	1		
<i>Quercus alba</i>	1	40 29.50	26	1		45 50	70	20 30 18 50	40 55	70
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>										
<i>Q. rubra</i>										
<i>Q. velutina</i>	35 55 40 100 100 75	75	110 95 50	35 170 100 70 55	120 75	100 90 90	75 50 125 110	65 136	105 40 70	45 60
<i>Tilia amer</i>										1
<i>Ulmus amer</i>										1
<i>Ulmus fulva</i>										18 1
	6 7 8 9	6 18 10 36	15 20 12 18	5 10 5 16	19 6 25 15	4 15 13 23	16 13 19 20	8 25 8 16	10 25 19 21	15 24 22 27
Distance	3 14 8 16	8 11 9 15	11 9 10 13	8 19 8 8	8 12 18 7	9 11 18 30	8 11 8 22	11 12 18 32	17 15 8 11	12 7 25 8

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 19

STATION NO.	31	2	3	4	5	6	7	8	9	40
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	1			1	26		1		1	20
C. ovata	30 19	2	2	15+1	1	15	1	22+1 30 20	2	15 1 85
Celtis occ	2	1			1					
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										1
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot			1	2	3	23	2	2	3	3 2
Quercus alba					28 35 9			22 65 20		
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina	70 28	110 90	100 125 50 60 45	55 70 50 75	35 40 55 55	75 55	70	110 120	80 150 65	80 45 90
Tilia amer										
Ulmus amer										
Ulmus fulva	17 27	1	1	1						1
	6 15 17 8	6 12 7 15	11 9 15 21	9 16 25 25	10 7 17 25	18 18 14 26	20 11 10 13	14 25 15 32	20 14 25 40	5 13 8 6
Distance	17 11 10 17	17 9 8 20	6 10 7 11	10 10 13 15	16 14 17 18	12 9 17 7	11 15 15 12	8 12 7 17	6 6 8 23	14 20 11 16

Soil A₀ $\frac{1}{8}$ " - $\frac{1}{4}$ " - $\frac{1}{2}$ "

A₁ $\frac{1}{4}$ " - $1\frac{1}{2}$ "

Texture

Silt-sand loam

Very thick A₀ which with roots forms
a mat on the sandy N. end

Light 7100-7600

200	220
180	100
140	80
120	180
170	80
<u>810</u>	<u>660</u>

1470

$$\frac{147}{7350} = 2.00\%$$

Temp. soil 18° 18°
air 23½ 22

79.3%

18°
22.7°

soil water perm. 50 cc 15 sec.
30

22.5 sec

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 19

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata	14	4	2 21	1	4	2	3	2	3	2
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot		2	2		1		1	1	1	1
Quercus alba		21 40 50 50 21	40 25 1 40 25 35 35	26 35 35	20 60 1 70 30 40	45 28 80	1	1		
Q. ellipsoid										
Q. macrocarpa										14 1
Q. rubra										
Q. velutina	55 80 55 35 40 28	95 80		60 45	70	70 70 21	65 75 70 40 90	70 40 29 35 45	75 55 100 100 85	95 40 70
Tilia amer										
Ulmus amer										
Ulmus fulva										
Salp	16 24 8 19	27 36 19 42	6 23 15 13	13 23 9 18	27 23 18 29	28 25 35 22	5 17 8 9	11 26 32 31	18 11 8 30	21 22 14 26
Distance	10 11 7 7	15 10 10 14	3 5 13 24	7 14 15 21	13 10 7	8 12 12 12	3 24 8 15	10 16 8 9	8 12 6 17	15 8 9 20
Stump spot	3	4	2	3	2	2	3	2	2	1
Herb quadrat		1	2		3		4		5	

40
29 50

75

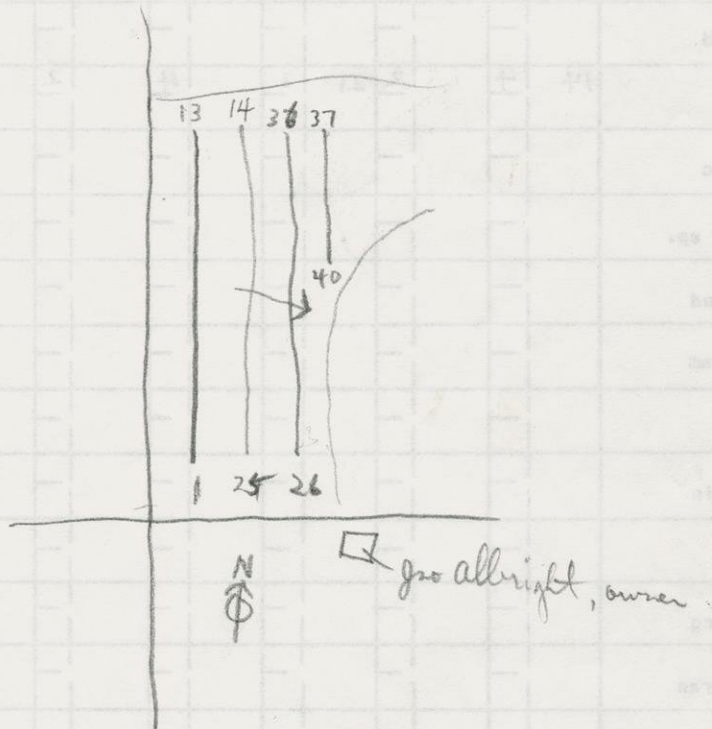
6 18
12 36
8 11
1 15

245.84

2nd growth, from cut 20-25 yrs ago
Some 3rd growth, cut c. 40 yrs ago

Forest seems to be at stage where Cornus, Corylus,
Saplings etc. ^{start to} die out as canopy closes in on them.

Gradual slope



Ave. BA

+ 516.2

Trees except Q. alb. stem tree s/t stem 12-22
28 25 1.12 16

Size classes

Stems

	12-22	23-33	34-44	45-55	56-66	67-77	78-88	89-99	100-124	125-149	150-174	1	2	3	4
Carya cord	2	2	1									5			
Carya ovata	11	4	1									12	1	1	
Pr. serot.		1										2			
Q. alba	10	9	10	10	2	4	2					28	8	1	
Q. mac	1											1			
Q. velut.	1	4	12	32	10	25	13	10	16	6	3	68	26	4	
Ulm. fulva	2	1										3			
	27	21	24	42	12	29	17	10	16	6	3	207	119	35	6

87.9%

12.1%

	single	mult.	trees	stems	% mult.	stem/tree	mult	stem	stem/tree	#	%	% mult.
Q. alba	28	9	37	47	24.3	1.27	19	19	2.11	9	24.3	100
Q. mac	1	0	1	1	0	1						
Q. velut.	68	30	98	132	30.6	1.35	30	64	2.13	30	30.6	100
	97	39	136	180	28.7	1.32	39	83	2.13			
No Q. mac		39	135	179	28.9	1.33						

dist origin

15177
CI = 967

	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.	4	4	1															2	1
Q. velut.		2	1	12(3)	17(10)	28(5)	14(5)	12(4)	9(4)	2(2)	1(1)							172	98(34) 59
Prun. serot.	52	57		1				1										3	2
Querc. alba	6	6	1	6	7(4)	13(5)	3(1)	5	2									64	37(10) 17
Pop. grand.																			
Carya ovata	55	60	5	5(3)	2	1		1										24	14(3) 5
Querc. rubra																			
Juglans nig.	4	4																	
Frax. amer.																			
Acer rubrum																			
Tilia amer.	1	1																	
Jug. cinerea																			
Ulmus amer.	1	1																	
Celtis occ.	7	8																	
Ulm. rubra	6	7	2	1														5	3
Carya cord.	11	12	1	3	1													9	5
Ostrya virg.																			
Acer sacc.																			

160

Sap CI = 1484

160(47)
81

#/acre

147

88.7

140.9

47

1.7

279

SOUTHERN UPLAND HARDWOODS

Presence

1517

- | | | |
|-----------------------------|-----------------------------|---------------------------|
| Actaea pachypoda | ✓ Galium aparine 15 | Pteridium aquilinum |
| Adiantum pedatum | G. circaezans | ✓ Pyrola elliptica |
| ✓ Agrimonia gryposepala | ✓ G. concinnum 30 | Ranunculus abortivus |
| ✓ Amelanchier spp. 20 | G. lanceolatum | R. recurvatus |
| ✓ Amphicarpa bracteata 15 | G. triflorum | R. septentrionalis |
| Anemonella thalictroides | ✓ Geranium maculatum 50 | ✓ Rhus radicans 30 |
| ✓ Apocynum androsaemifolium | ✓ Geum canadense 15 | ✓ R. cynosbati 15 |
| Aralia nudicaulis | Hackelia virginiana | R. missouriense |
| A. racemosa | ✓ Helianthus strumosus | Rosa sp. |
| ✓ Arenaria lateriflora 5 | Hepatica acutiloba | ✓ Rubus allegheniensis 30 |
| Arisaema atrorubens | Hydrophyllum virginianum | ✓ R. occidentalis 25 |
| Aster macrophyllus | Hystrix patula | ✓ R. strigosus 10 |
| ✓ A. sagittifolius 15 | Impatiens biflora | ✓ Sambucus canadensis |
| A. shortii | ✓ Lactuca biennis 5 | Sanguinaria canadensis |
| ✓ Athyrium filix-femina | Laportea canadensis | Sanicula gregaria |
| ✓ Botrychium virginianum 5 | ✓ Lathyrus ochroleucus 5 | S. marilandica |
| Brachyelytrum erectum | Lonicera prolifera | ✓ Smilacina racemosa 30 |
| Carex albursina | Lysimachia quadrifolia | ✓ S. stellata |
| C. convoluta | Monarda fistulosa | Smilax ecirrhata |
| ✓ C. pensylvanica 35 | ✓ Osmorhiza claytoni 50 | ✓ S. herbacea 5 |
| Caulophyllum thalictroides | ✓ O. longistylis | ✓ Solidago canadensis 5 |
| Celastrus scandens | Oxalis violacea | S. flexicaulis |
| ✓ Circaea quadrisulcata 70 | Panicum latifolium | S. ulmifolia |
| Cornus alternifolia | ✓ Parietaria pensylvanica | Thalictrum dioicum |
| ✓ C. femina 40 | ✓ Parthenocissus vitacea 60 | Tricostemum perfoliatum |
| C. rugosa | Phlox divaricata | Uvularia grandiflora |
| ✓ Corylus americana 25 | ✓ Phryma leptostachya 75 | Veronicastrum virginicum |
| Cryptotaenia canadensis | ✓ Podophyllum peltatum 5 | Viburnum acerifolium |
| ✓ Desmodium glutinosum | Polemonium reptans | V. lentago |
| D. nudiflorum | Polygonatum canaliculatum | V. rafinesquianum |
| Dioscorea villosa | P. pubescens | ✓ Viola cucullata 10 |
| Eupatorium purpureum | Polygonum virginianum | V. pubescens |
| ✓ E. rugosum | Potentilla simplex | Vitris aestivalis |
| Festuca obtusa | ✓ Prenanthes alba | ✓ V. riparia 15 |
| ✓ Fragaria virginiana 10 | ✓ Prunus virginiana 5 | Zanthoxylum americanum |

Additional species:

- Ambrosia trifida

- Poa comp 5 } 25
- Poa pratensis 20
- Heuchera richardsonii

- Campa cord 10
- C. ovata 5
- Celtis occ. 5
- Prun. serot. 45
- Q alba 5
- Q melut 25

Canopy 70-75-80-75-80-85-75
80-55-65-50-60-80

71.5%

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

1517
3N10E SW 1/4 SW 22
Stand No. 19
Quadrat No.

Actaea pachypoda	Eupatorium rugosum	Polygonatum canaliculatum
Adiantum pedatum	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala	Fragaria virginiana 7	Potentilla simplex
Allium tricoccum	Galium aparine 47	Prenanthes alba
Amphicarpa braceata 269	G. circaeazans	Pteridium aquilinum
Anemone quinquefolia	G. concinnum 236	Pyrola elliptica
A. virginiana	G. lanceolatum	Ranunculus abortivus
Anemonella thalictroides	G. triflorum	R. recurvatus
Antennaria sp.	Geranium maculatum 23457910	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans 8910
Apocynum androsaemifolium	Geum canadense 2	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati 15
Aralia nudicaulis	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp.
Arenaria lateriflora 5	Hamamelis virginiana	Rubus allegheniensis 38
Arisaema atrorubens	Helianthus strumosus	R. occidentalis 89
Asarum canadensis	Hepatica acutiloba	R. strigosus 7
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis
A. sagittifolius 257	Hydrastis canadensis	Sanguinaria canadensis
A. shortii	Hydrophyllum virginianum	Sanicula gregaria
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum	Impatiens capensis	Smilacina racemosa 1569
Brachyelytrum erectum	I. pallida	S. stellata
Campanula americana	Isopyrum biternatum	Smilax ecirrhata
Carex albursina	Lactuca biennis	S. herbacea
C. pensylvanica 135679	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides	Lathyrus ochroleucus 4	Solidago altissima 9
Celastrus scandens	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata 12810	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana	Maianthemum canadensis	Thalictrum dioicum
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina 123578	Mitella diphylla	Trillium cernuum
C. rugosa	Monarda fistulosa	T. flexipes
Corylus americana 46	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza clayton. 7810	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis	Uvularia grandiflora
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica	Viola cucullata 8
Dodecatheon meadia	Parthenocissus inserta 12347	V. pubescens
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 23568910	V. riparia 24
Erythronium albidum	Podophyllum peltatum	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans	Zizia aurea

Additional species:

Carya ovata 4
C. cord 8

Q. velut 15
Q. alba
Prunus serot 234789

Poa prat 2367

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 19
Quadrat No.

Actaea pachypoda
Adiantum pedatum
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
A. shortii
Athyrum filix-femina
Botrychium virginianum 15
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica 20
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata 11 12 13 14 15 16 17 18 19 20
Claytonia virginiana
Cornus alternifolia
C. femina 11 13
C. rugosa
Corylus americana 14 18 19
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

✓ Eupatorium rugosum
Festuca obtusa
Fragaria virginiana 14 15
Galium aparine 13
G. circaezans
G. concinnum 14 16 17
G. lanceolatum
G. triflorum
Geranium maculatum 14 15 17
Gerardia grandiflora
Geum canadense 13 14
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 14
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. 11 12 13 15 17 18 19
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
✓ Parietaria pennsylvanica
Parthenocissus inserta 14 15 16 17 18 19 20
Phlox divaricata
Phryma leptostachya 11 12 13 14 15 16 17 20
Podophyllum peltatum 11
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
✓ Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans 16 18 19
Ribes americanum
R. cynosbati 12
R. missouriense
Rosa sp.
Rubus allegheniensis 11 12 13 15 20
R. occidentalis 12 17 20
R. strigosus 18
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa 13 16
✓ S. stellata
Smilax ecirrhata
S. herbacea 17
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
Viola cucullata 13
V. pubescens
Vitis aestivalis
V. riparia 12 14
Xanthoxylum americ.
Zizia aurea

Additional species:

Qu. velut. 14 15 17
Q. alba 15
Prunus serot 12 13 14
Amelanchier 12 14 17 18
Carya cord 16
Poa comp. 13
Celtis occ 16

Sp. 16 17 20
(Pteris aquilina)

1517

CI = 967

SAP - 1484 + 2

H - 258 + 2

