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Site 1803: Green County, Township 4N, Range 9E, Section 22.

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 51803

Name:

County: Green

Date:

Size of Stand:

Forest Type:

Topography:

Locality:

T: 4N R: 9E

Sec: 22

Observers:

Size of Area Sampled:

Soil Type:

Slope:

Directions:

Condition of Stand:

Open Grown Trees:

Stumps:

1. 4.
2. 5.
3. 6.

% Canopy:

7. 10.
8. 11.
9. 12.

Soil Data:

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

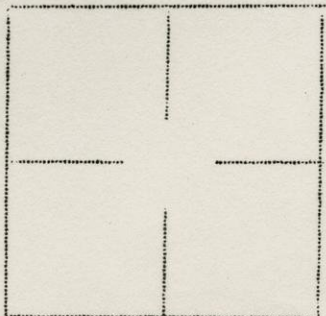
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	
A ₁	
A ₂	
B	

Parent Material:

Map:



1803

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	F. % : Seed	F. % : Seed	D. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. : C. I.	I. I. : C. I.
Acerrubrum														
A. saccharum														
Carya cord.	11	15	397	19	46	42.2	57.5			26.3	18.7	5.0	44	378.4
C. ovata	5	8	353	11	15	24.4	18.7			9.2	10.0	4.4	23.6	106.2
Celtis occiden.														
Fagus grand.														
Fraxinus amer.														
F. lanceolata														
F. pennsylvani														
Juglans cinere														
J. nigra	10	14	916	4	4	8.9	5.0			18.5	17.5	11.5	47.5	299.2
Ostrya virgin.														
Populus grand.	1	2	32	1	1	2.2	1.2			1.8	2.5	.4	4.7	20.2
P. tremuloides														
Prunus serotin				1	1	2.2	1.2							
Quercus alba	14	22	2410	3	3	6.6	3.7			25.9	27.5	30.2	83.6	300.9
Q. ellipsoidalis														
Q. macrocarpa														
Q. rubra	9	15	3645							16.7	18.7	45.7	81.1	454.1
Q. velutina														
Tilia american														
Ulmus american														
U. rubra	4	4	224	3	7	6.6	8.7			7.4	5.0	2.8	15.2	124.6
Crataegus sp.				3	3	6.6	3.7							
	54	80	7977	45	80									
														1683.6

Ave. Dist.
Btw'n Trees
13.1

171.6 MA

Ave. BA
(Total
BA ÷ 80)
99.7

No. Trees
Per acre
253.8

Dom. per
acre

25303.9

158 sap/acre

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 81504

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Acer rubrum</i>										
<i>A. saccharum</i>										
<i>Betula papy.</i>										
<i>Carpinus car</i>										
<i>Carya cord</i>	50 50	14 3 27 3	3	17 1	1	30 1	2	2	3	2
<i>C. ovata</i>	25 45		1	25 1		2	1		1	1
<i>Celtis occ</i>										
<i>Crataegus sp.</i>				1		1		1		
<i>Fagus grand</i>										
<i>Fraxinus am</i>										
<i>F. nigra</i>										
<i>Juglans cin.</i>										
<i>J. nigra</i>		1	90 45	26	96			80 100 30	1	50 1
<i>Ostrya virg</i>										
<i>Populus gran</i>							16 16			
<i>P. tremul</i>										
<i>Prunus serot</i>										
<i>Quercus alba</i>	1		200	55	170 65	50 120 130	160			
<i>Q. ellipsoid</i>										
<i>Q. macrocarpa</i>										
<i>Q. rubra</i>		210 80					210	700	270 210 270 350	230 160 330
<i>Q. velutina</i>										
<i>Tilia amer</i>										
<i>Ulmus amer</i>										
<i>Ulmus fulva</i>			23		18					
				1	3					
	15, 16 20, 27	24, 30 20, 17	6, 34 25, 27	6, 3 10, 12	6, 6 15, 10	17, 7 3, 11	25, 19 14, 30	19, 50 49, 35	4, 22 10, 18	35, 38 15, 20
Distance	15, 6 28, 16	8, 11 5, 17	16, 8 3, 15	10, 9 2, 21	11, 16 13, 14	29, 13 17, 10	12, 13 13, 17	10, 16 19, 27	19, 14 32, 23	7, 19 12, 23

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 8^a 1504

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord	16	24 1	30 3	3 4	15 3	3	28 25	17 35	19 4	3
C. ovata		1	1		170	30 16	1	2		20 22 3
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra		40	35	65	65 1		30 120			
Ostrya virg										
Populus gran									1	
P. tremul										
Prunus serot										
Quercus alba	55	45	25 85	55 40	110	270 160		230 140	120 80	25 1
Q. ellipsoid										
Q. macrocarpa										
Q. rubra	180			95					140	210
Q. velutina										
Tilia amer										
Ulmus amer										
Ulmus fulva	23 3	160								
	15, 12 9, 20	10, 12 10, 30	2, 7 7, 6	38, 12 10, 12	11, 18 8, 7	10, 12 18, 17	17, 16 27, 19	2, 9 12, 8	28, 15 27, 30	6, 17 24, 9
Distance	4, 8 12, 8	9, 7 4, 12	13, 11 14, 19	11, 24 3, 18	7, 10 10, 11	24, 10 4, 18	5, 6 13, 20	30, 17 9, 19	17, 12 5, 13	18, 16 7, 10

Grazing Indicator Species

Stand No. 1803

Index No.

Decreasers			Increases		
10	D	GV	-10	D	GV
<i>Caulophyllum thalictroides</i>			<i>Ambrosia artemis.</i>		
<i>Cornus femina</i>			<i>Arctium minus</i>		
<i>Cornus rugosa</i>			<i>Bidens</i> sp.	.2	2
<i>Impatiens pallida</i>			<i>Cirsium arvense</i>		
<i>Polygonatum caniculatum</i>			<i>Oxalis erecta</i>	.4	4
<i>Vitis aestivalis</i>			<i>Pilea pumila</i>	.6	6
<i>Vitis riparia</i>			<i>Plantago</i> sp.	3.0	30
<i>Prunus serotina</i>			<i>Poa. pratense</i>		
9			<i>Prenanthes alba</i>	.2	2
<i>Uvularia grandiflora</i>			<i>Taraxacum</i> off.	2.2	22
<i>Rubus allegheniensis</i>	.4	3.6	-9		
<i>Desmodium glutinosum</i>	.2	1.8	<i>Cryptotaenia canadensis</i>	.8	7.2
8			<i>Ranunculus abortivus</i>	2	18
<i>Osmorhiza claytoni</i>	.6	4.8	<i>Agriemonia grypsosepala</i>	1.7	15.3
7			-8		
<i>Rubus occidentalis</i>	.2	1.4	<i>Eupatorium rugosum</i>		
6			<i>Lactuca binnis</i>		
<i>Geranium maculatum</i>	3.9	23.4	-7		
<i>Celastrum scandens</i>	12.	92	<i>Amphicarpa bracteata</i>	3.7	25.9
<i>Eupatorium purpureum</i>	.6	3.6	<i>Mulenbergia schreberi</i>	.8	5.6
<i>Festuca obtusa</i>	.2	1.2	<i>Solidago ulmifolia</i>		
5			-6		
<i>Discorea villosa</i>			<i>Galium triflorum</i>		
<i>Parthenocissus inserta</i>	1.0	5	<i>Viola cucullata</i>	7.5	43.0
4			<i>Parietaria pennsylvanica</i>		
<i>Botrychium virginianum</i>	.4	1.6			

Total 118.4

Total 181.

Index

UG - 6

$$118.4 - 181 = -62.6$$

$$\frac{UG}{G} = \frac{118.4}{181} = .65$$

$\frac{D}{Total\ index}$

$$\frac{62.6}{299.4} = -21\%$$

$$\frac{G}{TV} = \frac{181}{299.4} = 61\%$$

STAND NO. 71504

SPECIES LIST FOR GRAZED STANDS

DATE 13/7/56

Acalypha virginica
Adiantum pedatum
Agrostis alba
Ambrosia artemisiifolia
Aralia racemosa
Aspidium spinulosum
Aster sagittifolius 15, 18, 19, 20
Bidens discoides
Bidens frondosa
Brachyelytrum erectum
Carex albursina
Carex sp. 12, 13, 14, 15, 16, 17, 18, 19
Cardamine pennsylvanica
Circaea intermedia 1, 3, 4, 5, 8, 9, 10, 13, 14, 15, 20
Circaea latifolia
Corylus americana 11, 14, 15, 12, 19
Dryopteris spinulosa
Epifagus virginiana
Epilobium glandulosum
Erigeron philadelphicus 4, 17
Eupatorium rugosum
Fragaria virginiana
Galium concinnum 2, 9, 10, 12, 13, 14
Galium aparine 6, 7
Gaultheria procumbens
Geranium maculatum 10, 11, 12, 13, 14, 18, 19
Geum canadense 6, 7, 8, 18
Hackelia virginiana
Helianthus trachelifolius
Hepatica acutiloba
Hieracium aurantiacum
Juncus tenuis
Laportea canadensis
Lobelia inflata
Maeanthemum canadense
Mitchella repens
Monotropa uniflora
Nepeta cataria
Osmorhiza Claytoni 6
Osmorhiza longistylis
Osmunda claytoniana
Oxalis acetosella
Oxalis stricta 17
Parietaria pennsylvanica 10, 12
Parthenocissus vitacea 3, 6
Phleum pratense
Phytolacca decandra
Pilea pumila
Plantago sp. 15, 19, 20
Poa spp. 2, 3, 4, 5, 6, 7, 9, 15, 16, 17, 19
Podophyllum peltatum 12, 8, 10, 11, 12, 13, 17, 18
Polygonum convolvulus
Polygonum hydropiper
Polygonum persicaris
Potentilla canadensis 15
Potentilla recta

Prunella vulgaris
Rubus allegheniensis 8
Rubus hispidus
Rubus occidentalis 20
Rumex acetosella
Rumex obtusifolius
Ranunculus acris 13, 10, 17, 18, 20
Sanguinaria canadensis
Sanicula gregaria
Smilax ecirrhata 3, 19
Stellaria media
Taraxacum officinale 4, 16, 17, 18, 19, 20
Trifolium americanum
Trifolium hybridum
Trifolium pratense 24, 20
Trillium grandiflorum
Tyctopodium lucidulum
Urtica gracilis
Uvularia grandiflora
Veronica officinalis
Viburnum cuneifolium 14, 19
Viola papilionacea
Viola cucullata 13, 4, 8, 10, 11, 16, 18, 19, 20

Impatiens pallida
Onoclea sensibilis
Sambucus canadensis
Sambucus racemosa
Vaccinium pennsylvanicum

Phytolacca leptocarpa 2, 3, 4, 5, 8, 10, 11, 13, 14, 16, 20

Carya cord. 1, 14, 19

Calathea scandens 2

Amphicarpa bracteata 23, 5, 8, 10, 12, 15

Ulmus fulva 2, 8, 9, 12, 13

Crataegus mitis 4, 19, 19, 20

Arum atrorubrum 4, 6, 7, 9, 12, 13, 16

Plantago lanceolata 4, 10, 17, 20

Prunus serotina 4, 13

Cryptantha canadensis 6, 7, 10, 18

Monarda fistulosa 6, 18

Anthriscus argutifolius 7, 10

Grass 8, 16

Plantago cordata 20

FOTA 10

Agimonia gypsohila 11, 18

Cornus stolonifera 11, 12, 14

A 11 *Rubus allegheniensis*

Q. rubra 12

Pyrola virgin. 13

~~*AA. sp.* 14, 19~~

N- *Asclepias sp.* 14
Prostr. anthos. alba 19

STAND NO. 8^W 1504

SPECIES LIST FOR GRAZED STANDS

DATE 13/2/56

Acalypha virginica
Adiantum pedatum
Agrostis alba
Ambrosia artemisiifolia
Aralia racemosa
Aspidium spinulosum
Aster sagittifolius 2, 6, 7, 8, 15, 17, 19
Bidens discoides
Bidens frondosa
Brachyelytrum erectum
Carex albursina 6
Carex rosea ^{sp} 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
Cardamine pennsylvanica
Cirsium intermedia 1, 4, 5, 6, 11, 12, 13, 14, 15, 16, 17
Cirsium latifolia 18, 19
Corylus americana 12, 13, 18, 20
Dryopteris spinulosa
Epifagus virginiana
Epilobium glandulosum
Erigeron philadelphicus
Eupatorium ^{purpureum} 15, 16, 17
Fragaria virginiana
Galium concinnum 2, 4, 10, 11, 12, 15, 17
Galium triflorum
Gaultheria procumbens
Geranium maculatum 8, 10, 11, 12, 13, 17, 18, 19, 20
Geum canadense ^{2, 4, 11}
Hackelia virginiana
Helianthus trachelifolius
Hepatica acutiloba
Hieracium aurantiacum
Juncus tenuis
Laportea canadensis
Lobelia inflata
Macanthemum canadense
Mitchella repens
Monotropa uniflora
Nepeta cataria
Osmorhiza Claytoni 15, 19
Osmorhiza longistylis
Osmunda claytoniana
Oxalis acetosella 14
Oxalis stricta
Parietaria pennsylvanica
Parthenocissus vitacea 2, 9, 14
Phleum pratense
Phytolacca decandra
Pilea pumila
Plantago sp. 1, 3, 17, 19, 20
Poa spp. ^{consp.} 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18
Podophyllum peltatum 2, 4, 10, 11, 12, 16, 17, 18
Polygonum convolvulus
Polygonum hydropiper
Polygonum persicaris
Potentilla canadensis 1, 3, 7, 10
Potentilla recta
Oxalis 16
Erig? 17

Prunella vulgaris
Rubus allegheniensis
Rubus hispidus
Rubus occidentalis
Rumex acetosella
Rumex obtusifolius
Ranunculus ^{abort.} ^{13, 14}
Sanguinaria canadensis
Sanicula gregaria 17
Smilax ecirrhata 5, 8, 14, 17
Stellaria media 4
Taraxacum officinale 2, 16, 17, 19
Trientalis americana
Trifolium hybridum
Trifolium pratense 19
Trillium grandiflorum
Tyropodium lucidulum
Urtica gracilis
Uvularia grandiflora
Veronica officinalis
Viburnum acerifolium
Viola papilionacea
Viola ^{undulata} 2, 4, 5, 6, 8, 9, 10, 12, 13, 15, 16, 17, 19, 20
Crocus perfoliatus
Impatiens pallida
Onoclea sensibilis
Sambucus canadensis
Sambucus racemosa
Vaccinium pennsylvanicum
Smilacina racemosa 1, 10, 11
Urtica fulva 2
Phytolacca 2, 4, 5, 6, 8, 9, 11, 13, 14, 15, 16, 18
Carex cor 2, 5, 8, 10, 14, 15, 16
Ranunculus recurvatus 2, 11, 15
Plantago major 4
Agrimonia eupatoria 4, 8, 9, 11, 13, 18
Anaphalis bracteata 4, 6, 9, 11, 13, 15, 18, 20
Galium aparine 4, 6, 11
Fern 4
Boykinia virginiana
Arisaema 5, 6, 8, 9, 10, 14, 16, 17, 19
Solida? 5
Aster lateriflorus
Ceratium rubrum 6
Plantago lanceolata 6
Solida laterifolia 7
Anemone pulchella 9
Desmodium acuminata 10
Prunus vit. 11
Q. rubra 11, 15
L. small 12, 15
Bidens sp. 15
Oxalis 13, 15
Oxalis broad 18

Grazing Indicators
Presence

1803

Extreme +2
Decreasers

Carya ovata
Quercus alba
Aralia nudicaul.
A. racemosa
Caulophyllum thal.
Hystrix patula
Sanicula mariland.
Vitis aestivalis

Moderate +1 9
Decreasers

Acer saccharum
Prunus serotina
P. virginiana ✓
Quercus rubra ✓
Tilia americana
Actaea Sp.
Adiantum pedatum
Anthriscus angustif. ✓
Campanula americana
Celastrus scandens ✓
Cornus femina
C. rugosa
Corylus americana ✓
Desmodium glutinosum ✓
Dioscorea villosa
Eupatorium purpur. ✓
E. rugosum
Polygonatum canic.
Rhus radicans
Rubus alleghen. ✓
R. occidentalis ✓
Smilax herbacea
Triosteum perfol.
Uvularia grandiflorum
Vitis riparia

Invaders -2 10 = 20

Fraxinus americana
Ambrosia artemisiifolia
Antennaria sp.
Aquilegia canadense
Arctium minus
Aster lateriflorus ✓
Bidens sp. ✓
Cerastium vulgatum ✓
Cirsium arvense
Erigeron philadelph. ✓
Lithospermum latiflorum
Monarda fistulosa ✓
Oxalis stricta ✓
Panicum lebergii
Pilea pumila ✓
Plantago sp. ✓
Poa compressa ✓
Smilax hispida
Taraxacum off. ✓
Toxaria virginiana

Increasers -1 10

Ulmus fulva ✓
Agrimonia gryposep. ✓
Botrychium virginiana ✓
Cryptotaenia canadensis ✓
Galium aparine ✓
G. triflorum
Lactuca biennis
Lemnismum can.
Muhlenbergia schreberi ✓
Parietaria penn. ✓
Poa pratense
Ranunculus abortivus ✓
Sanicula gregaria ✓
Smilacina racemosa ✓
Solidago ulmifolia

9

- 30

$$\frac{U-G}{\text{Tot units}} = \frac{9-30}{39} = -\frac{21}{39} = .53$$

Stand No. 1803

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
TREES:																							
Acer negundo																							
A. rubrum																							
A. saccharinum																							
A. saccharum																							
Amelanchier sp.																							
Betula lutea																							
B. nigra																							
B. papyrifera																							
Carpinus carol.																							
Carya cordiform.		11		27.5		32		2.9															
C. ovata																							
Celtis occident.																							
Crataegus sp.																							
Fagus grandif.																							
Fraxinus americ.																							
F. nigra																							
F. pennsylvanica																							
Gleditsia tria.																							
Gymnocladus dio.																							
Juglans cinerea																							
J. nigra																							
Ostrya virgin.																							
Platanus occid.																							
Populus deltoid.																							
P. grandident.																							
P. tremuloides																							
Prunus american.																							
P. nigra																							
P. pennsylvan.																							
P. serotina																							
P. virginiana		2		5		5		.5															
Quercus alba																							
Q. bicolor																							
Q. ellipsoid.																							
Q. macrocarpa																							
Q. rubra		2		5		5		.5															
Q. velutina																							
Robinia pseudo.																							
Salix nigra																							
Sorbus americana																							
Tilia americana																							
Ulmus americana																							
U. fulva		6		15		16		1.6															
U. thomasi																							
SHRUBS & HERBS:																							
Actaea sp.																							
Adiantum pedat.																							
Agastache scrophul.																							
Agrimonia gryp.		8		20		22		2.1															
Aletris farin																							

[illegible]

[illegible]

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHRUBS & HERBS (cont'd																					
Lithospermum latifolium																					
Lobelia cardin.																					
L. spicata																					
Lonicera canadense																					
L. dioica																					
L. hirsuta																					
L. prolifera																					
Luzula acuminata																					
L. multiflora																					
Lycopodium lucidulum																					
L. obscurum																					
Lysimachia quadrifolia																					
Maianthemum can.																					
Menispermum can.																					
Milium effusum																					
Mitchella repens																					
Mitella diphylla																					
Monarda fistul.		2		5		5		.5													
Monotropa uniflora																					
Morus rubra																					
Muhlenbergia frondosa		4		10		11		1.0													
Oenothera biennis																					
Onoclea sensib.																					
Orchis spectab																					
Oryzopsis asper.																					
O. racemosa																					
Osmorhiza clayt.		3		7.5		7.5		.8													
O. longistylis																					
Osmunda cinnam.																					
O. claytoniana																					
Oxalis violacea stricta		2		5		5		.5													
Panax quinquef.																					
P. trifolium																					
Panicum latifol.																					
Parietaria penn.		2		5		5		.5													
Paronychia cana.																					
Parthenocissus vitacea		5		12.5		13.5		1.3													
Pedicularis can.																					
Phlox divaricata																					
Phryma leptost.		25		62.5		97		6.5													
Physocarpus opul.																					
Phytolacca dec.																					
Pilea pumila		3		7.5		7.5		.8													
Poa palustris		30		75		139		7.8													
Podophyllum pel.		17		42.5		55		4.4													
Polemonium rep.																					
Polygonatum com.																					
P. pubescens																					
Polygonum virg.																					
Polymnia canad.																					
Polypodium virgin.																					

[illegible]

STATION NO.	p.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SHRUBS & HERBS (Cont'd)																							
<i>Symplocarpus foetidus</i>																							
<i>Taenidia integ.</i>																							
<i>Taxus canadensis</i>																							
<i>Thalictrum dio.</i>																							
<i>Thaspium aureum</i>																							
<i>Tradescantia oh.</i>																							
<i>Trientalis borealis</i>																							
<i>Trillium cernuum</i>																							
<i>T. flexipes</i>																							
<i>T. grandiflorum</i>																							
<i>T. recurvatum</i>																							
<i>Triosteum perf.</i>																							
<i>Uvularia grandif.</i>																							
<i>U. sessilifolia</i>																							
<i>Vaccinium angustifolium</i>																							
<i>Vaccinium canad.</i>																							
<i>Verbena urticaefolia</i>																							
<i>Veronica serpyll.</i>																							
<i>Veronicastrum vir.</i>																							
<i>Viburnum acerifol.</i>																							
<i>V. affine</i>																							
<i>V. lentago</i>																							
<i>V. trilobum prunifolium</i>		2		5		5		.5															
<i>Vicia americana</i>																							
<i>Viola conspersa</i>																							
<i>Viola cucullata</i>		25		62.5		97		6.5															
<i>V. incognita</i>																							
<i>V. pubescens</i>																							
<i>Viola sagittata</i>																							
<i>Vitis aestivalis</i>					1																		
<i>V. a. var. argent.</i>																							
<i>V. riparia</i>																							
<i>Woodsia ilvensis</i>																							
<i>Zanthoxylum amer.</i>																							
<i>Zizia aurea</i>																							
Additional sp.																							
<i>Plantago sp.</i>		13		32.5		39		3.4															
<i>Stellaria media</i>		1		2.5		2.5		.3															
<i>Taraxacum off.</i>		10		2.5		2.9		2.6															
<i>Trifolium pratense</i>		3		7.5		7.5		.8															
<i>Cerastium nutans</i>		5		12.5		12.5		1.3															
<i>Didans sp.</i>		1		2.5		2.5		.3															