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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS C.I. 1160.3

Stand No. 1500

Name: HARRY TURK

County: DANE

Date: July 1, 1956

Size of Stand 40 ACRES

Forest Type: QUERCUS ALBA, RUBRA & VELUT.

Topography: Gently rolling

Locality: N.W. OF CROSS PLAINS

T: 8N

R: 7E

Sec: NE OF NW 30

Observers: D.J.R.

Size of Area Sampled: 25 ACRES

Soil Type: Miami silt-loam

Slope: slight Directions towards ravine
(see map)

Condition of Stand: More or less clear cut 35 years ago. Ground fire c 2 years ago.
 Grazed & selectively cut at this time. ∴ many saplings destroyed (fire & grazing)
 Fire scarred trees 10-20' up. Understory fairly good in July. Back in Sept & understory scant.

Open Grown Trees: Querc. alba (7'9") at X.
 Stumps: " stump 250 yrs old.

% Canopy: 80

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.	Soil water permeability
A ₀										50cc.
A ₁									11.28%	28 sec.
A ₂										
B										

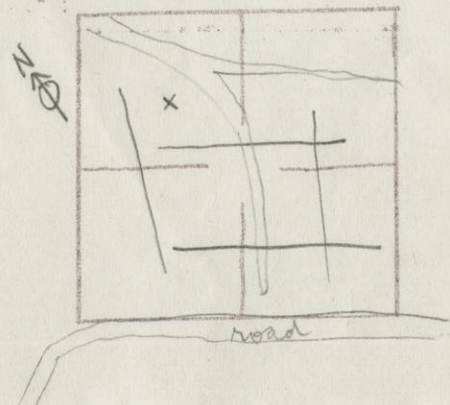
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/8									
A ₁	1/2									
A ₂										
B										

Parent Material:

Map:



More or less clear cut 35 years ago.

Ground fire 2 years ago.

Grazed & selectively cut at this time.

POINT RECORD TREES

SOUTHERN HARDWOODS

[illegible]

Very gently sloping, N. facing hill.

Very few stumps left except for 3 or 4 white oaks which were cut about last year, evidently for fire wood.

Recently burned (ground fire)

Grazed somewhat (probably spring graze)

Fairly even aged stand, i.e. probably was clear cut. (Take increment borings)

10 points

Bright sunlight 9800 foot candles outside

1. 350	6. 150
2. 120 fc	7. 110
3. 120 fc	8. 85
4. 200 fc	9. 75
5. 140 fc	10. 80

$$1430 \div 10 = 143$$

$$\frac{143}{9800} = 0.0145 \text{ of full sunlight}$$

$$\frac{143}{9800} \times 100 = 1.45\% \text{ of full sunlight}$$

2 points

Air temp. 30° C. outside

Soil temp. 18° C 18° C

28° inside
28° inside

2 points

Soil samples -

Soil

texture

~~Silt~~ loam

Soil

type

~~is~~ are Miami

litter-A₀ 1/8" 1/8"

A₁ 1" 1"

July 3

Stand No. 1C

POINT RECORD TREES

SOUTHERN HARDWOODS

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord								30		
C. ovata		37			7	15				
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran	40	17		34	28					
P. tremul										
Prunus serot	7 45									12
Quercus alba	26 16 46 33	42 22	12 18 32 16	27 17 55 29 30 34	59 28	9 8	8 1/2 60 40 17	18 20 40 24	21 11 55 35 52 14 25 29	20 18 22 19
Q. ellipsoid	53			8 28			16			
Q. macrocarpa		13 22	12 18 32	29 30 34	9 35					
Q. rubra	13 70 22 95	8 55 15 15 12 40	2 16 20 3 13 20 75	7 60 13	17 40 14 40 6 45	15 55 38 14 1/2 75 9 90	13 80 139 7 70 21 7 50 8 170 19 140	11 26 9 85	2 17 18 18 15 20	
Q. velutina						12 100		17 75		
Tilia amer										
Ulmus amer										
Ulmus fulva										15
Distance										

Stump of * 2 ft. diam.
6 Q. rubra from 13-40 sq. in.

2nd time - Done in Sept

Data Form No. 24

Plant Ecology Research

Univ. of Wisconsin

1500

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		1		1		1	2			
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul		1						1		
Prunus serot	17	25		40		1	50	21		
Quercus alba	60 (30 13)	45 (50)	45 (20+1)	35 (30)	1	25 (15 26)	14	65	1	25 (25 35)
Q. ellipsoid										
Q. macrocarpa										
Q. rubra		55 (105)	60 (40)	100 (105)	14	60 (70 80)	1	70	19 (45)	45 (55 65)
Q. velutina	85 (65)	40 (29)	105 (65 65)	60 (40)	24 (27+1)	2 (26 35)	45	30 (18)	40 (45 48)	40 (60 65)
Tilia amer										
Ulmus amer		1								
Ulmus fulva										
	16	13 (30)	8 (28)	9 (25)	13 (27 28)	19 (20 32)	20 (11 10)	16 (31 25)	19 (22)	12
Distance	7 12 17 12	3 10 14 12	12 21 13 12	12 10 15 12	8 11 11 9	13 7 10 27	8 13 9 15	8 9 9 18	6 9 7 17	16 6 15 22

Oak
saps
are still
sprouting16 22 40
45 45 35
1223+15
killed by
fire

2nd line left

Data Form No. 24

Plant Ecology Research

Univ. of Wisconsin

1500

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 1

STATION NO.	1	2	3	4	5	6	7	8	9	20
Acer rubrum										
A. saccharum										
Betula papy.										
Carpinus car										
Carya cord										
C. ovata		2	1	2	1		1	1	1	40
Celtis occ										
Crataegus sp.										
Fagus grand										
Fraxinus am										
F. nigra										
Juglans cin.										
J. nigra										
Ostrya virg										
Populus gran										
P. tremul										
Prunus serot	30 25	32	1	1	1		3		80	
Quercus alba	32	55 50	20 24 40	22 14	45 14	20 25 45 18 15	25+1	22	65	25 40
Q. ellipsoid										
Q. macrocarpa										
Q. rubra			80	50 22 40 12	33 29		18 40 35 19	55 20	60	
Q. velutina	16 25 40	75				115	25 25+1	28 85	65	40 55
Tilia amer										
Ulmus amer										
Ulmus fulva										
	34	18 26 27	17 29	9 8 15 21	20 20 27	10 11 20 25	23	15 28	26 34	19 32
Distance	8 15 8 15	11 11 10 20	12 7 12 15	14 8 17 15	11 10 8 16	17 14 10 11	13 5 9 10	7 19 7 12	12 10 10 14	7 9 7 18

15 23

45 40 55

75 35 19

27

30 17

Not used - diff. tree method, fire, some grazing

II. C.I.

Use this for trees

1500

Tree	No. : Pts.	No. : Tr.	No. : Dom.	No. : Sap.	No. : Sap.	F. % : Sap.	D. % : Sap.	F. % : Seed	F. % : Seed	F. % : Tr.	D. % : Tr.	Dom. % : Trees	I. I. :	C. I. :	Ave. : B.A.
Acerrubrum															
A. saccharum															
Carya cord.															
C. ovata	1	1	① 40	12	15	30	31.2	91.8	413.1	1.9	1.3	.8	4	18	40
Celtis occiden.															
Fagus grand.															
Fraxinus amer.															
F. lanceolata															
F. pennsylvani															
Juglans cinere															
J. nigra															
Ostrya virgin.															
Populus grand.		4													
P. tremuloides				2	2	5	4.2	13.8	13.8						
Prunus serotin	7	8	⑨ 330	9	11	22.5	22.9	18.1	245.2	13.2	10.1	6.6	29.9	107.6	37
Quercus alba	20	32	④ 1411	12	14	30	29.2	88.8	319.7	37.7	40.5	28.1	106.3	382.7	32
Q. ellipsoidalis															
Q. macrocarpa															
Q. rubra	10	15	② 1153	1	1	2.5	2.1	6.9	38.6	18.9	19.0	22.9	60.8	340.5	44
Q. velutina	15	23	③ 2096	3	4	7.5	8.3	23.7	59.2	28.3	29.1	41.7	99.1	247.7	54
Tilia american															
Ulmus american				1	1	2.5	2.1	6.9	52.4						
U. rubra															
	53	79	⑤ 5030	40	48	100	100	1142	100	100	100.1		1096.5		42

Ave. Dist.
Btw'n Trees

11.8

Ave. BA
(Total

BA = 80)

64
per tree

No. Trees
Per acre
312.8

Dom. per
acre

13,137.6

20,019.2

Sap. in.
45.5

(I.I)

This 1 for saplings

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. : I. I.	C. I. : C. I.	Sap : C. I.	Ave : B. A.
Acerrubrum								1	5							
A. saccharum																
Carya cord.				3	5	5.5	6.2	(17.5)						150.5	150.5	Ave. Dist.
C. ovata				9	9	16.6	11.2	(41.7)						157.6	187.6	Btw'n Tree Saps.
Celtis occiden.																12.1
Fagus grand.																27.5
Fraxinus amer.																Ave. BA
F. lanceolata																(Total 49
F. pennsylvani																BA = 80)
Juglans cinere																No. Trees
J. nigra																Per acre
Ostrya virgin.								1	5							297.5
4.3 Populus grand.	1	4	150	6	6	11.1	7.5	1	5	2.9	5.1	3.9	11.9	51.2	120	38
P. tremuloides								(27.9)								Dom. per acre
3.6 Prunus serotin	3	3	125	6	8	11.1	10	3	15	5.9	2.5	2.1	10.5	37.8	113.8	41
3.6 Quercus alba	14	27	908	17	37	31.5	46.2	(31.6)		41.2	34.2	23.4	98.8	355.7	419.4	34
Q. ellipsoidalis								(116.5)								14,577.5
Q. macrocarpa																
4 { Q. rubra	17	46	2741	11	13	20.4	16.2	9	45	50	58.2	70.7	178.9	715.6	219.6	60
Q. velutina								(54.9)								
Tilia american																
Ulmus american								2	10							
U. rubra				2	2	3.7	2.5	3	15						76.3	
								(9.3)								
	35	80	3924	54	80	99.9	99.8	20	100	100	100	100.1		1160.3		

1287.2

Saps. 126.9

	12-50	51-100	101-150	150+
Pop. grand.	3	1		
PRUN. SEROT.	3			
QUERC. ALBA	22	4	1	
Q. RUBRA	21	23	1	1
Q. VELUT.				

	12-30	31-50	51-75	76-100	101-150	150+
Pop. grand.	2	1	1			
PRUN. SEROT.		3				
QUERC. ALBA	18	4	4	1		
QUERC. RUBRA	11	10	13	10	1	1
Q. VELUT.						

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

1500
8N7E NE of NW30
June 28 + July 3, 1956
Stand No. 1 C
Quadrat No.

Actaea pachypoda	Eupatorium rugosum	Polygonatum canaliculatum 4, 11, 13, 17
Adiantum pedatum 14	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala	Fragaria virginiana 14	Potentilla simplex
Allium tricoccum	Galium aparine 3, 4, 5, 6, 7, 9, 10, 11, 12, 13	Prenanthes alba
Amphicarpa braceata 12, 3, 5, 6, 7, 11, 12, 14, 15	G. circaeans 14, 17, 18, 19, 20	Pteridium aquilinum
Anemone quinquefolia 16, 17, 18, 19	G. concinnum	Pyrola elliptica 14
A. virginiana	G. lanceolatum 11, 16, 18	Ranunculus abortivus 3, 6, 9
Anemonella thalictroides 12, 20	G. triflorum	R. recurvatus
Antennaria sp. 3	Geranium maculatum 2, 3, 11, 17, 18, 20	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans 6, 9
Apocynum androsaemifolium	Geum canadense	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati
Aralia nudicaulis	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp. 4, 8, 10, 19
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis 13, 15
Arisaema atrorubens	Helianthus strumosus 4, 8, 10, 20	R. occidentalis 14, 7, 14, 17, 19
Asarum canadensis	Hepatica acutiloba	R. strigosus 14, 7, 14, 17, 19
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis
A. sagittifolius 3, 9, 18	Hydrastis canadensis	Sanguinaria canadensis
✓ A. shortii	Hydrophyllum virginianum	Sanicula gregaria 1, 3, 4, 7, 8, 10, 12, 15
Athyrium filix-femina	Hystrix patula	S. marilandica 16, 17, 19
Botrychium virginianum	Impatiens capensis	Smilacina racemosa
Brachyelytrum erectum	I. pallida	S. stellata
Campanula americana	Isopyrum biternatum	Smilax ecirrhata
Carex albursina 14	Lactuca biennis	S. herbacea
C. pensylvanica 2, 3, 4, 6, 7, 8, 11, 12, 13, 14, 16	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides 17, 19, 20	Lathyrus ochroleucus	Solidago altissima
Celastrus scandens	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata 2, 3, 4, 12, 13, 14, 15	Lysimachia quadrifolia	S. ulmifolia 10
Claytonia virginiana 18	Maianthemum canadensis	Thalictrum dioicum 20
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15, 18, 19	Mitella diphylla	Trillium cernuum
C. rugosa 1, 20	Monarda fistulosa	T. flexipes
Corylus americana 2, 3, 8, 9, 11, 12, 13, 14, 15, 16	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza clayton.	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis	Uvularia grandiflora 18
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium 10	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica 1, 7, 10	Viola cucullata 1, 2, 3, 4, 5, 7, 9, 10, 12, 14
Dodecatheon meadia	Parthenocissus inserta	V. pubescens 18, 15, 16, 19, 20
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 16	V. riparia 2
Erythronium albidum	Podophyllum peltatum 2, 10, 15	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans 1, 2, 3, 11, 12, 14, 15, 16	Zizia aurea
	17, 18, 20	

Additional species:

Taraxacum officinale 1, 3, 5, 9, 12, 17
Quercus rubra 1, 3, 6, 8, 11, 12, 17
Poa pratensis 1, 9
compressa 5

① *Viburnum cuneifolium* 2 3 4 5 6 7 8 9 10 11 15, 18, 19
~~Viburnum~~
 Violet rhizome 14
~~Viburnum~~
 Shiny green opp. 18
 ③ *Pyrola elliptica*
 Pilea pumila

4A ~~4B~~ 3 (sagitt) 4 *Helianthus*

② A *Ranunculus* box? 6, 9 ✓
 B Umbellif. 6
 C Ring blue flower 8

8A ~~Pulsatilla~~ 8 *Helianthus*

4B ~~4C~~ (sagitt) 9

⑥ *Smilacina* 10 *Panicum latifolium*
 Yellow (stellata)

⑤ Large siliqua 10 - *S. ulmifolia*

(Common species only)
 Presence of

Date form No. 10

SOUTHERN UPLAND HARDWOODS

Plant ecology research

Number of

of

Number of

811 15 11-11-1930

1200

Presence List
(Uncommon species)

SOUTHERN UPLAND HARDWOODS

Stand No. 1C

Locality:

County:

NE or NW
Sec: 30 T: 6N R: 7E

Date:

Observers:

Size of Stand:

Size of Area Sampled:

Condition of Stand:

Type:

Acalypha rhomboidea

Agastache scrophul.

Allium canadense

Amorpha canescens

Anaphalis margarit.

Anemone cylindrica

Arabis canadensis

A. laevigata

A. lyrata

A. perstellata

Aralia pispida

Arisaema dracont.

Asclepias ovalif.

A. exaltata

Aster azureus

A. simplex

A. prenanthoides

Athyrium thelypter.

Boehmeria cylindr.

Botrychium multif.

Bromus purgans

Camptosorus rhizop.

Carex convoluta 14

Ceanothus americ.

Chimaphila umbell.

Cirsium altissim. 5, 13, 10, 11, 19

Clematis virgin.

Clintonia boreal.

Comandra umbellata

Conopholis americ.

Corallorrhiza mac.

Corydalis semperv.

Cynoglossum offic.

Cystopteris bulbif.

Desmodium cuspidatum

D. canadense

Dicentra canad.

Diervilla lonicera

Dioscorea villosa

Dirca palustris

Elymus villosus

Epifagus virgin.

Erigeron philadel.

Erythronium americ.

Evonymus atropur.

Floerkea prosperp.

Fragaria vesca

Galium boreale

Gaultheria procumb.

Gaylussacia baccata

Gentiana quinquef.

Geum virginianum

Hedeoma hispida

Hepatica americana

Heraclium maximum

Hieracium canad.

H. scabrum

Hydrophyllum append.

Hypoxis hirsuta

Ilex verticillata

Juncus tenuis

Juniperus communis

J. virginiana

Krigia biflora

Lathyrus venosus

Lilium philadel.

Liparis liliifolia

Lobelia cardinalis

Lonicera dioica

L. hirsuta

Luzula acuminata

L. multiflora

Lysimachia ciliata

L. hybrida

Miliun effusum

Mitchella repens

Monotropa uniflora Indian pipe

Oenoclea sensibilis

Oryzopsis asperif.

Osmunda cinnamomea

Oxalis violacea 2, 8, 12, 1, 4, 10, 15

Panax trifolium

Paronychia canad.

Pedicularis canad.

Physocarpus opul.

Phytolacca americana

Pilea pumila 18

Polymnia canad.

Polypodium vulgare

Prunella vulgaris

Pteretis pensylvanica

Pyrus coronaria

P. ioensis

Ranunculus fascicul.

R. rhomboideus

Rhus glabra

R. typhina

Rubus hispidus

R. pubescens

Rudbeckia laciniata

Salix sp.

Sambucus pubens

Saxifraga pennsylv.

Scrophularia lan.

S. marilandica

Senecio pauperculus

Silene stellata

Solanum nigrum

Solidago speciosa

Staphylea trifolia

Streptopus roseus

Symplocarpus foet.

Taenidia integerr.

Taxus canadensis

Thalictrum dasycarp.

Thaspium aureum

Tradescantia ohio.

Uvularia sessilif.

Vaccinium myrtilloides

Veronica serpyllif.

Viburnum lentago

V. trilobum

Vicia americana

Viola conspersa

V. incognita

Wulfenia bullii

Additional Species:

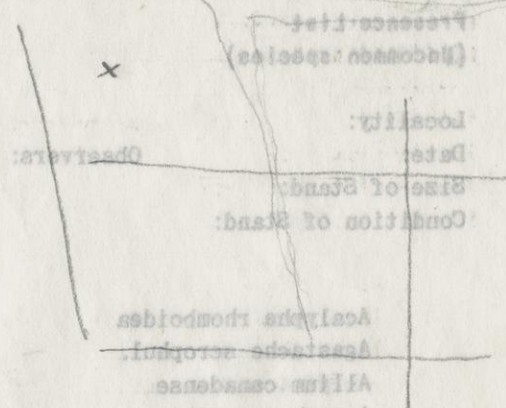
T 8 N R 7 E NE OF NW 30

OWNER - HARRY TURK

Land was formerly owned by his father, who allowed it to be more or less clear cut 35 years ago (1921). It was mostly oak. Down the hill, i.e. along the big ravine, it was (less extensively) cut c. 25 years ago. Larger trees remain there. Since then the owners have cut in it from time to time for their own use, accidently for fire wood. These trees they cut for their own use were the last few remaining open-grown oaks. I saw one live open-grown oak at x, with a circumference of 7'9", B.A. of 680. (Q. alba) Nearby recently cut (last year) stump showed Q. alba to have been c. 250 years old.

This stand had a fire 1-2 years ago, which destroyed many saplings. Scarred larger trees 10-20 feet up.

Land is grazed every summer



Additional Species:

Actaea pachypoda	Eupatorium rugosum	Polygonatum canaliculatum 3 7 9 12 16
Adiantum pedatum 6	Festuca obtusa	Polygonatum pubescens 19 20
Agrimonia grypsosepala	Fragaria virginiana	Potentilla simplex
Allium tricoccum	Galium aparine 1 3 5 6 7 8 10 11 13 14 15	Prenanthes alba 7, 9, 11, 20
Amphicarpa braceata 1, 2, 4, 6, 7, 8, 10, 12, 14	G. circaeazans 16 17 18 19 20	Pteridium aquilinum
Anemone quinquefolia 13, 14, 16, 17, 18, 19	G. concinnum 14	Pyrola elliptica
A. virginiana	G. lanceolatum 7	Ranunculus abortivus 13
Anemonella thalictroides 11	G. triflorum 5, 14	R. recurvatus 13
Antennaria sp. 20	Geranium maculatum 1 2 3 4 5 6 7 8 9 10 11	R. septentrionalis 10
Aplectrum hiemale	Gerardia grandiflora 12 13 14 15 16 17	Rhus radicans
Apocynum androsaemifolium	Geum canadense 20	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati
Aralia nudicaulis	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp. 4
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis 12, 14, 15, 17, 18
Arisaema atrorubens	Helianthus strumosus 7, 17, 19	R. occidentalis 1, 3, 17, 18
Asarum canadensis	Hepatica acutiloba	R. strigosus 17, 18
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis
A. sagittifolius 11, 13, 15	Hydrastis canadensis	Sanguinaria canadensis
A. shortii	Hydrophyllum virginianum	Sanicula gregaria 5 7 11
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum 4 14	Impatiens capensis	Smilacina racemosa
Brachyelytrum erectum	I. pallida	S. stellata
Campanula americana	Isopyrum biternatum	Smilax ecirrhata 14
Carex albursina	Lactuca biennis	S. herbacea
C. pensylvanica 1 2 3 4 5 7 8 9 10 11 14 16 17	Laportea canadensis 1	S. tamnoides
Caulophyllum thalictroides 18 19 20	Lathyrus ochroleucus	Solidago altissima 8, 10, 11, 12
Celastrus scandens	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata 13 15 16 8 9 10 11 12 13	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana 14 16 20	Maianthemum canadensis	Thalictrum dioicum 5 17
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina	Mitella diphylla	Trillium cernuum
C. rugosa 9 11 15 17 19	Monarda fistulosa	T. flexipes
Corylus americana 16, 19	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza clayton.	Triosteum perfoliatum
Cystopteris fragilis 1, 17	O. longistylis	Uvularia grandiflora 9 13
Dentaria laciniata	Osmunda claytoni 16 (inter. fern)	Veronicastrum virginicum
Desmodium glutinosum	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica 2, 4	Viola cucullata 2 4 5 7 8 10 11
Dodecatheon meadia	Parthenocissus inserta 1	V. pubescens 9 18
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 12	V. riparia
Erythronium albidum	Podophyllum peltatum 6	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans 1 2 3 4 5 7 8 10	Zizia aurea
	11 14 15 16 17 18 19	

Additional species:

all < 1' tall

Ulmus amer. 2
Taraclium officinale 2
Pop. grand. 8

Prunus serot. 9
Poa prat. 10
P. compressa 18 20
P. rubra 10

Ostrya virginiana 7

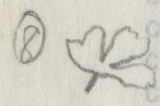
- ① ^{little} lower buds 24
 ② small opp. leaved 24 13
 ③ ~~7 11 17~~

alt. Eupatorium ? 11 ⑤
 opp. " ? 12
 alt. = 13 15 ⑥ & sagittate

- ~~④ vine 135~~
 ① ^{vine} Cmpd leaves opp 1 2 4 6 7 8 10 12 13 14 16 4 leaves (alt) 14 ③
~~② Maiden hair leaves~~
 ③ ~~④~~ ~~⑤~~ ~~⑥~~ ~~⑦~~ ~~⑧~~ ~~⑨~~ ~~⑩~~ ~~⑪~~ ~~⑫~~ ~~⑬~~ ~~⑭~~ ~~⑮~~ ~~⑯~~ ~~⑰~~ ~~⑱~~ ~~⑲~~ ~~⑳~~ ~~㉑~~ ~~㉒~~ ~~㉓~~ ~~㉔~~ ~~㉕~~ ~~㉖~~ ~~㉗~~ ~~㉘~~ ~~㉙~~ ~~㉚~~ ~~㉛~~ ~~㉜~~ ~~㉝~~ ~~㉞~~ ~~㉟~~ ~~㊱~~ ~~㊲~~ ~~㊳~~ ~~㊴~~ ~~㊵~~ ~~㊶~~ ~~㊷~~ ~~㊸~~ ~~㊹~~ ~~㊺~~ ~~㊻~~ ~~㊼~~ ~~㊽~~ ~~㊾~~ ~~㊿~~
 ⑥ Sagittate 7 9 11 20
 ⑦ ^{off. leaved} 7 17 19
 alt. leaved 8 10 (aster) 11 12 13
 4 ~~to be used~~ 7 (Sagittate?)
 ⑧ ^{stipule} Wood stem 7

5 palmate cmpd. i. them 12 14 ①
 ② ^{lower} Elm leaved before 16 19 ③ ^{woody} bristly upper stem
 Little plantain like 20 ②

Gleum sp. ? 20 ④
 ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



(common species only)
 presence of glandular

SOUTHERN PLANT HANDBOOK

Number of leaves

Leaf No. 10

Leaf No. 10

Leaf No. 10