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Site 3041: Elk Mound, Dunn County. 1949-07-25

[s.l.]: [s.n.], 1949-07-25

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Stand No: 3041 Name: _____
 County: Sumner T: 28 N R: 11 W Sec: 7 Locality: Tom O'Elk mound
 Date: July 25 Observers: Brom. and
 Size of Stand: approx 10-15 acres Size of Area Sampled: 10-15 acres
 Forest Type: - ? Soil Type: Bone Fine Sandy loam
 Topography: rather low - flat
 Condition of Stand: _____

large
pink
610 white pine

Open Grown Trees:

Stumps:

- | | |
|----|-----|
| 1. | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

Soil

Sample No:	pH	N	P	K	Colloids	Vol/wt	WHC
A ₀ _____	—	—	—	—	—	—	—
A ₁ _____	—	—	—	—	—	—	—
A ₂ _____	—	—	—	—	—	—	—
Depth	Characteristics (Color, texture, etc.)						

A₀ _____A₁ _____A₂ _____

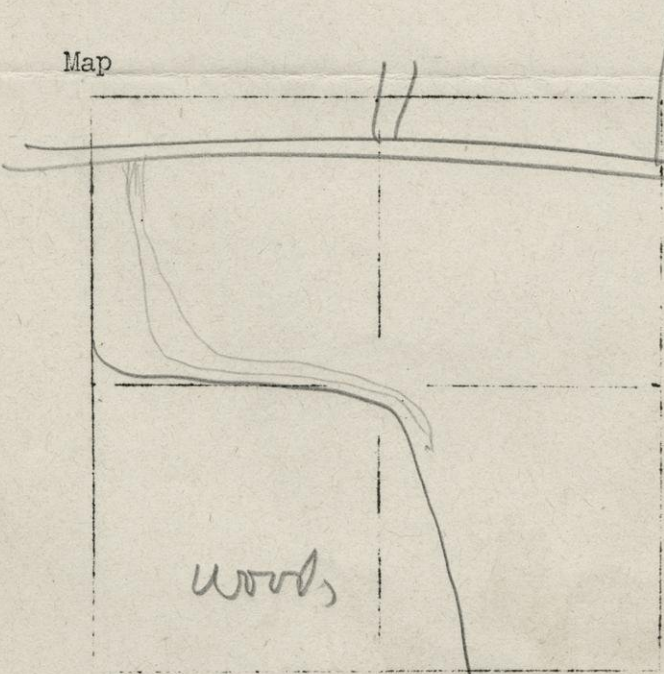
B _____

Parent Material:

Remarks:

Map

Given a "pine woods"
 no - because of a few
 scattered pine trees -
 but not a pine woods in
 the usual sense of word -
 probably defies classification -
not a pine woods!



woods

Tree	#	#	Size Cl. sq. in.			#	#	F. %	F. %	D. %	Dom %	D F D	Station No.	
	Pts	Tr.	-80-	-320-	321	Dom.	Sap	Seed	Seed	Tr.	Tr.	Index		
325 Acer rubrum	13	15	9	6		1467	2		19.1	18.8	13.9	51.8	363	Total Length of Transect. 720
A. sacchar.														Total Area of Transect. 4680
Carya cord.														Ave. Dist. Btw'n Trees 18
C. ovata														Saplings/unit area 335
Fagus gran.														Ave. BA (Total BA=80) 132
Fraxinus am														No. Trees/acre 155
F. penn.														Dom./acre 20460
Juglans cin														
J. nigra														
Ostrya vir.														
Populus gr.														
P. tremuloi														
Prunus sero							4							
Quercus al.														
275 Q. macrocar	11	11	3	7	1	1610			16.2	13.75	15.2	45.2	90	
Q. rubra														
325 Q. velutina	13	18	6	11	1	2339			19.1	22.5	22.1	63.7	127	
5 Tilia amer.	2	3		3		620	7		2.9	3.25	5.9	12.6	100	
20 Ulmus amer.	8	8	4	2	2	1258	4		11.8	10	11.9	33.7	770	
7.5 U. fulva	3	4	2	2		286	7		4.4	5	2.7	12.1	97	
42.5 Fraxinus nigra	17	20	9	10	1	2185	6		25	25	20.7	70.7	424	
2.5 Pinus Strobus	1	1			1	800			1.5	1.25	7.6	10.4	52	
Prunus virg							3							
Crataegus							3							
Totals	80		33	41	6	10565	36					1000	1523	1350

170

F N 40 20, 540, 225
28, 95 30, 50, 15, 45, 215
55, 22 90, 110, 85, 200, 40
140 90
U. A. 1/20, 3/5 50
360 18 115, 135, 120
A. R. 265, 115 60, 150, 40
14, 60 24, 28, 290, 60, 18, 170
U F 140 14, 12, 120

|||||

|||||

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QV, 160 200, 165, 45 14
100 35, 210, 105, 130, 80, 40
70 90 370, 160 220, 145
QM 225, 95 70, 190
365, 125, 100, 50
190, 35, 145
TA, 160, 215, 245

PS, 800

U.F. ~~777~~ 71

U A 7111

P.V. III

Crat 111

AR 11

Prs 1111

FN ~~777~~ 1

TA ~~777~~ 11

TABULATION FORM

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	T	
HERBS:																							
<i>Actaea pachypoda</i>																							1
<i>Actaea rubra</i>	✓																						
<i>Adenocaulon bicolor</i>																							
<i>Adiantum pedatum</i>	✓										✓												15
<i>Agrimonia gryposepala</i>	✓																						1
<i>Allium tricoccum</i>																							
<i>Alnus incana</i>																							
<i>Alnus rugosa</i>																							
<i>Amphicarpa bracteata</i>	✓				✓	✓	✓		✓	✓	✓	✓	✓		✓			✓	✓		✓		12.60
<i>Anemone canadensis</i>																							
<i>Anemone cylindrica</i>																							
<i>Anemone quinquefolia</i>																							
<i>Antennaria</i> sp.																							
<i>Apocynum androsaemifolium</i>																							
<i>Apocynum cannabinum</i>																							
<i>Aquilegia canadensis</i>																							
<i>Aralia hispida</i>																							
<i>Aralia nudicaulis</i>	✓																						1
<i>Aralia racemosa</i>	✓																						1
<i>Arctostaphylos uva-ursi</i>																							
<i>Arisaema atrorubens</i>	✓																			✓			15
<i>Asarum canadense</i>																							
<i>Asclepias exaltata</i>	✓																						1
<i>Aster cordifolius</i>																							
<i>Aster lateriflorus</i>																							
<i>Aster macrophyllus</i>	✓																						
<i>Aster prenanthoides</i>																							1
<i>Aster sagittifolius</i>																							
<i>Aster shortii</i>																							
<i>Aster umbellatus</i>																							
<i>Athyrium filix-femina</i>	✓			✓		✓			✓	✓	✓	✓	✓			✓			✓	✓			10.50
<i>Athyrium thelypteroides</i>																							
<i>Boehmeria cylindrica</i>	✓																						1
<i>Botrychium lanceolatum</i>																							
<i>Botrychium matricariaefolium</i>																							
<i>Botrychium virginianum</i>																							
<i>Brachyelytrum erectum</i>	✓																						1
<i>Bromus purgans</i>	✓																						1
<i>Campanula americana</i>																							
<i>Campanula rotundifolia</i>																							
<i>Cardamine pensylvanica</i>																							
<i>Carex alburensis</i> sp.	✓	✓																					15 342
<i>Carex pensylvanica</i>					✓																		15
<i>Carex plantaginea</i>																							
<i>Caulophyllum thalictroides</i>	✓					✓			✓	✓													3 15
<i>Ceanothus ovatus</i>																							
<i>Celastrus scandens</i>																							
<i>Chimaphila umbellata</i>																							
<i>Cicuta maculata</i>	✓																						1
<i>Circaea alpina</i>																							
<i>Circaea quadrisulcata</i>	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		14.60

Data Form No. 23
TABULATION FORM

Plant Ecology Research
NORTHERN PINE-HARDWOODS

Stand No. 3041

[illegible]

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3041

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Fragaria vesca																							
Galium aparine	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1155
Galium boreale																							
Galium circaeazans																							
Galium concinnum																							
Galium lanceolatum																							
Galium triflorum	✓	✓	✓		✓			✓		✓	✓	✓			✓		✓	✓					1050
Gaultheria hispidula																							
Gaylussacia baccata																							
Geranium maculatum	✓	✓		✓		✓			✓		✓	✓	✓	✓	✓	✓			✓		✓	✓	1260
Gerardia pedicularia																							
Geum canadense	✓		✓								✓							✓		✓	✓	✓	510
Geum rivale																							
Gnaphalium obtusifolium																							
Goodyera oblongifolia																							
Goodyera pubescens																							
Goodyera repens																							
Habenaria bracteata																							
Habenaria bracteata ^{raynoldsii}	✓																						1
Hackelia virginiana																							
Halenia deflexa																							
Hamamelis virginiana																							
Helianthus strumosus	✓																						1
Hepatica acutiloba	✓								✓														15
Hepatica americana																							
Heuchera richardsonii																							
Hieracium canadense																							
Hieracium scabrum																							
Hydrophyllum virginianum	✓				✓			✓															210
Hystrix patula	✓									✓								✓	✓	✓			420
Ilex verticillata	✓																						
Impatiens biflora																							
Impatiens pallida																							
Isopyrum bitermum																							
Krigia biflora																							
Lactuca canadensis ^{canadensis}	✓																		✓				15
Laportea canadensis	✓																						1
Lathyrus ochroleucus																							
Lathyrus venosus																							
Ledum groenlandicum																							
Lilium michiganense																							
Linnaea borealis																							
Lithospermum canescens																							
Lobelia inflata																							
Lonicera canadensis																							
Lonicera hirsuta																							
Lonicera oblongifolia																							
Lonicera prolifera	✓																						
Lupinus perennis																							
Luzula acuminata																							
Luzula multiflora																							

372

[illegible]

[illegible]

Stand No. 3041

[illegible]

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoii			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Cornus cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Shrubs & Herbs	
Actaea sp. rubra	Eupatorium purpur.
Adiantum pedat.	Eupatorium rugosum
Agrimonia gryp.	Festuca obtusa
Allium tricocc.	Fragaria virgin.
Amphicarpa brac.	Galium aparine
Anemone quinque.	G. circaezans
A. virginiana	G. concinnum
Anemone thal.	G. lanceolatum
Antennaria sp.	G. triflorum
Aplectrum hiem.	Geranium macul.
Apocynum andros.	Geum canadense
Aquilegia canad.	Goodyera pubesc.
Aralia nudicaul.	Habenaria bract.
A. racemosa	Hamamelis virg.
Arenaria later.	Helianthus strum.
Arisaema atrov.	Hepatica acutil.
Asarum canad.	Heuchera richard.
Aster macrophyll.	Hydrastis canad.
A. sagittifolius	Hydrophyllum virg.
A. shortii	Hystrix patula
Athyrium angust.	Impatiens biflora
Aureolaria grandif.	I. pallida
Botrychium vir.	Isopyrum bitern.
Brachyelytrum	Lactuca spicata
Campanula amer.	Laportea canad.
Carex albursina	Lappula virgin.
C. pennsylvan.	Lathyrus ochrol.
Caulophyllum thal.	Lonicera prolif.
Celastrus scan.	Lysimachia quadr.
Circaea latif.	Maianthemum can.
Claytonia virg.	Menispermum can.
Cornus altern.	Mitella diphylla
C. femina	Monarda fistulosa
C. rugosa	Orchis spectab.
Corylus americana	Oryzopsis racem.
Cryptotaenia canad.	Osmorhiza clayton.
Cypripedium pubesc.	O. longistylis
Cystopteris frag.	Osmunda clayton.
Dentaria laciniata	Panax quinquef.
Desmodium acumin.	Panicum latifolium
D. nudiflorum	Parietaria pennsylv.
Dicentra cucullaria	Parthenocissus vit.
Dodecatheon meadia	Phlox divaricata
Dryopteris spinulosa	Phryma leptostachya
Erigeron pulchellus	Podophyllum pelt.
Erythronium albidum	Polemonium reptans
	Polygonatum commut.
	Polygonatum pubesc.
	Polygonum virgin.
	Potentilla simpl.
	Prenanthes alba
	Pteridium aquil.
	Pyrola elliptica
	Ranunculus abort.
	R. recurvatus
	R. septentrion.
	Rhus radicans
	Ribes americanum
	R. cynosbati
	R. missouriense
	Rosa sp.
	Rubus alleghen.
	R. occidentalis
	R. strigosus
	Sambucus canad.
	Sanguinaria can.
	Sanicula gregaria
	S. marilandica
	Smilacina racemosa
	S. stellata
	Smilax ecirrhata
	S. herbacea
	S. hispida
	Solidago altissima
	S. latifolia
	S. ulmifolia
	Thalictrum dioicum
	Trillium cernuum
	T. flexipes
	T. grandiflorum
	T. recurvatum
	Triosteum perfoliatum
	Uvularia grandiflora
	Veronicastrum virg.
	Viburnum acerifolium
	V. affine
	Viola cucullata
	V. pubescens
	Vitis aestivalis
	V. riparia
	Zanthoxylum americ.
	Zizia aurea

med. leaved sage

Agastache scrophul.	Erigeron philadel.	Pilea pumila
Allium canadense	Erythronium americ.	Polymnia canad.
Amorpha canesc.	Evonymus atropur.	Polypodium vulgare
Anaphalis marg.	Floerkea prosperp.	Prunella vulgaris
Anemone cylindrica	Fragaria vesca	Pteretis nodulosa
Arabis canadensis	Galium boreale	Pyrus coronaria
A. laevigata	Gaultheria procumb.	P. icensis
A. lyrata	Gaylussacia baccata	Ranunculus fascicul.
A. perstellata	Gentiana quinquef.	R. rhomboideus
Aralia hispida	Geum virginianum	Rhus glabra
Arisaema dracont.	Hedeoma hispida	R. typhina
Asclepias ovalif.	Hepatica americana	Rubus hispidus
✓ A. phytolaccoides	Heracleum lanatum	R. pubescens
Aster azureus	Hieracium canad.	Rudbeckia laciniata
A. paniculatus	H. scabrum	Salix sp.
A. prenanthoides	Hydrophyllum append.	Sambucus pubens
Athyrium thelypter.	Hypoxis hirsuta	Saxifraga pennsylv.
Besseyia bullii	✓ Ilex verticillata	Scrophularia lan.
✓ Boehmeria cylindr. }	Juncus tenuis	S. marilandica
Botrychium multif.	Juniperus communis	Senecio balsamitae
✓ Bromus purgans ?	J. virginiana	Silene stellata
Camptosorus rhizop.	Krigia biflora	Solanum nigrum
Carex convoluta	Lathyrus venosus	Solidago speciosa
Ceanothus americ.	✓ Liliium philadel.	Staphylea trifolia
Chimaphila umbell.	Liparis liliifolia	Steironema ciliatum
✓ Cirsium altissim.	Lobelia cardinalis	S. lanceolatum
Clematis virgin.	Lonicera dioica	Streptopus roseus
Clintonia boreal.	L. hirsuta	Symplocarpus foet.
Comandra umbellata	Luzula acuminata	Taenidia integerr.
Conopholis americ.	L. multiflora	Taxus canadensis
Corallorrhiza mac.	Milium effusum	✓ Thalictrum dasycarp.
Corydalis semperv.	Mitchella repens	Thaspium aureum
Cynoglossum offic.	Monotropa uniflora	Tradescantia ohio.
Cystopteris bulbif.	✓ Onoclea sensibilis	✓ Uvularia sessilif.
Desmodium bracteos.	Oryzopsis asperif.	Vaccinium canad.
D. canadense	Osmunda cinnamomea	Veronica serpyllif.
Dicentra canad.	Oxalis violacea	Viburnum lentago
Diervilla lonicera	Panax trifolium	V. trilobum
Dioscorea villosa	Paronychia canad.	Vicia americana
✓ Dirca palustris	Pedicularis canad.	Viola conspersa
Elymus villosus	Physocarpus opul.	V. incognita
Epifagus virgin.	Phytolacca decand.	

Additional Species:

✓ Small purple fingered Habenaria
 ✓ Cicuta sp
 ✓ Common Kettle
 ✓ Trillium cernuum

I Hardwood Survey

Presence & Station Record

Stand No.: 1

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 20			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoii			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Cornus cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva — 140"		
Crataegus sp.			P. serotina					23 1/2 ft.

Distance:

	Shrubs & Herbs	
Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Aggrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	✓Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	✓G. triflorum	R. recurvatus
Aplectrum hiem.	✓Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	✓Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	✓Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
✓Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Cryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	✓Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Shel. longepet.
✓Carex ML

I Hardwood Survey

Presence & Station Record

Stand No.: 2

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra <u>540'</u>			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american <u>420</u>		
Celtis occiden			P. pennsylvan.			U. fulva <u>21 ft</u>		
Crataegus sp.			P. serotina			Distance:		

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atror.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 ✓ Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaeazans
 G. concinnum
 G. lanceolatum
 ✓ G. triflorum
 ✓ Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laporthea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera proclif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 ✓ Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 ✓ R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 ✓ T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrium virg.
 Viburnum acerifolium
 V. affine
 ✓ Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

✓ Anemone

I Hardwood Survey

Presence & Station Record

Stand No.:

3

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 265			Fraxinus amer.			Quercus alba		
A. saccharinum			✓ F. nigra — 225			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoii			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			✓ U. fulva — 22.5 ft		
Crataegus sp.			P. serotina					

Distance:

Actaea sp.
 Adiantum pedat.
 Anemone gryp.
 Allium tricocc.
 Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atror.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 ✓ Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 ✓ Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laporthea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera proclif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 ✓ Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 ✓ Ribes americanum ?
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 ✓ Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

✓ U. serotina

I Hardwood Survey

Presence & Station Record

Stand No.: 4

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		2
A. rubrum	115		Fraxinus amer.	40		Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoei			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

17 1/2 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	✓G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atror.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	✓Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	✓Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
✓C. pennsylvan.	Lathyrus ochrol.	✓S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	✓Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Nitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Cryzopsis racem.	T. recurvatum
Cryptotaenia canad.	✓Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	✓Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	✓Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

U. serotina

I Hardwood Survey

Presence & Station Record

Stand No.: 5

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra	30)	52	Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoii			Robinia pseudo		
Carinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 ✓ Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrov.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 ✓ Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 ✓ Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 ✓ Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 ✓ Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 ✓ R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.: 6

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			✓ Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 15"			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 160		
B. papyrifera			Populus deltoii			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance: 21 ft

			Shrubs & Herbs					
Actaea sp.			Eupatorium purpur.			Polygonatum commut.		
Adiantum pedat.			Eupatorium rugosum			Polygonatum pubesc.		
Agrimonia gryp.			Festuca obtusa			Polygonum virgin.		
Allium tricocc.			Fragaria virgin.			Potentilla simpl.		
✓ Amphicarpa brac.			Galium aparine			Prenanthes alba		
Anemone quinque.			G. circaezans			Pteridium aquil.		
A. virginiana			G. concinnum			Pyrola elliptica		
Anemone thal.			G. lanceolatum			Ranunculus abort.		
Antennaria sp.			G. triflorum			R. recurvatus		
Aplectrum hiem.			Geranium macul.			R. septentrion.		
Apocynum andros.			Geum canadense			Rhus radicans		
Aquilegia canad.			Goodyera pubesc.			Ribes americanum		
Aralia nudicaul.			Habenaria bract.			R. cynosbati		
A. racemosa			Hamamelis virg.			R. missouriense		
Arenaria later.			Helianthus strum.			Rosa sp.		
Arisaema atrov.			Hepatica acutil.			Rubus alleghen.		
Asarum canad.			Heuchera richard.			R. occidentalis		
Aster macrophyll.			Hydrastis canad.			R. strigosus		
A. sagittifolius			Hydrophyllum virg.			Sambucus canad.		
A. shortii			Hystrix patula			Sanguinaria can.		
Athyrium angust.			Impatiens biflora			✓ Sanicula gregaria		
Aureolaria grandif.			I. pallida			S. marilandica		
Botrychium vir.			Isopyrum bitern.			✓ Smilacina racemosa		
Brachyelytrum			Lactuca spicata			S. stellata		
Campanula amer.			Laportea canad.			Smilax ecirrhata		
Carex albursina			Lappula virgin.			S. herbacea		
C. pennsylvan.			Lathyrus ochrol.			S. hispida		
Caulophyllum thal.			Lonicera prolif.			Solidago altissima		
Celastrus scan.			Lysimachia quadr.			S. latifolia		
✓ Circaea latif.			✓ Maianthemum can.			S. ulmifolia		
Claytonia virg.			Menispermum can.			Thalictrum dioicum		
Cornus altern.			Mitella diphylla			Trillium cernuum		
C. femina			Monarda fistulosa			T. flexipes		
C. rugosa			Orchis spectab.			T. grandiflorum		
Corylus americana			Oryzopsis racem.			T. recurvatum		
Cryptotaenia canad.			✓ Osmorhiza clayton.			Triosteum perfoliatum		
Cypripedium pubesc.			O. longistylis			Uvularia grandiflora		
Cystopteris frag.			Osmunda clayton.			Veronicastrum virg.		
Dentaria laciniata			Panax quinquef.			Viburnum acerifolium		
Desmodium acumin.			Panicum latifolium			V. affine		
D. nudiflorum			Parietaria pennsylv.			✓ Viola cucullata		
Dicentra cucullaria			Parthenocissus vit.			V. pubescens		
Dodecatheon meadia			Phlox divaricata			Vitis aestivalis		
Dryopteris spinulosa			Phryma leptostachya			V. riparia		
Erigeron pulchellus			Podophyllum pelt.			Zanthoxylum americ.		
Erythronium albidum			Polemonium reptans			Zizia aurea		

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I Hardwood Survey

Presence & Station Record

Stand No.:

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra	95, 215		Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Ceanothus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.: 8

----- : BA : S : Tree : BA : S : Tree : BA : S :

15 ✓
 Acer negundo
 A. rubrum
 A. saccharinum
 A. saccharum
 Amelanchier sp.
 Betula lutea
 B. nigra
 B. papyrifera
 Carpinus carol.
 Carpa cordifor
 C. ovata
 Celtis occiden
 Crataegus sp.

Fagus grandif.
 Fraxinus amer.
 F. nigra
 F. pennsylvan.
 Juglans cinere
 J. nigra
 Ostrya virgin.
 Populus deltoi
 P. grandident.
 P. tremuloides
 Prunus americ.
 P. pennsylvan.
 P. serotina

Prunus virgin.
 Quercus alba
 Q. bicolor
 Q. ellipsoid.
 Q. macrocarpa
 Q. rubra
 Q. velutina
 Robinia pseudo
 Sorbus americ.
 Tilia american
 Ulmus american
 U. fulva

Distance: 14' 12"

Shrubs & Herbs

Actaea sp.
 Adiantum pedat.
 Asarum canad.
 Allium tricocc.
 ✓ Anghicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrov.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 ✓ Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 ✓ Caulophyllum thal.
 Celastrus scan.
 ✓ Circaea latif.
 Claytonia virg.
 Cornus altern.
 ✓ C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypridium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 Galium aparine
 G. circaeazans
 G. concinnum
 G. lanceolatum
 ✓ G. triflorum
 Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 ✓ Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 ✓ Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 ✓ R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 ✓ Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.:

9

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	— 200	165
B. papyrifera			Populus deltoi			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

20 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Anemone gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓ Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaeazans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Arenonella thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	✓ G. triflorum	R. recurvatus
Apocotrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	✓ Hystrix patula	Sanguinaria can.
✓ Athyrium angust.	Impatiens biflora	✓ Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
✓ Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
✓ Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	✓ V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	✓ Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.:

10

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			✓ Prunus virgin.		
✓ A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa — 225		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 45		
B. papyrifera			Populus deltoii			Robinia pseudo		
Campinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					13.5

Distance:

13.5 ft

Shrubs & Herbs

✓ Actaea sp.	Eupatorium purpur.	Polygonatum commut.
✓ Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agemonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓ Amphicarpa brac.	✓ Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	✓ G. triflorum	R. recurvatus
Aplectrum hiem.	✓ Geranium macul.	R. septentrion.
Apocynum andros.	✓ Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Henatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
✓ Athyrium angust.	Impatiens biflora	✓ Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
✓ Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	✓ Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.:

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa	95	
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	210	
B. papyrifera			Populus deltoï			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

11 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Asarum canad.	Festuca obtusa	Polygonum virgin.
Asarum canad.	Fragaria virgin.	Potentilla simpl.
Aster macrophyll.	Galium aparine	Prenanthes alba
Aster sagittifolius	G. circaezans	Pteridium aquil.
Aster shortii	G. concinnum	Pyrola elliptica
Athyrium angust.	G. lanceolatum	Ranunculus abort.
Aureolaria grandif.	G. triflorum	R. recurvatus
Botrychium vir.	Geranium macul.	R. septentrion.
Brachyelytrum	Geum canadense	Rhus radicans
Campanula amer.	Goodyera pubesc.	Ribes americanum
Carex albursina	Habenaria bract.	R. cynosbati
C. pennsylvan.	Hamamelis virg.	R. missouriense
Caulophyllum thal.	Helianthus strum.	Rosa sp.
Celastrus scan.	Hepatica acutil.	Rubus alleghen.
Circaea latif.	Heuchera richard.	R. occidentalis
Claytonia virg.	Hydrastis canad.	R. strigosus
Cornus altern.	Hydrophyllum virg.	Sambucus canad.
C. femina	Hystrix patula	Sanguinaria can.
C. rugosa	Impatiens biflora	Sanicula gregaria
Corylus americana	I. pallida	S. marilandica
Cryptotaenia canad.	Isopyrum bitern.	Smilacina racemosa
Cypripedium pubesc.	Lactuca spicata	S. stellata
Cystopteris frag.	Laportea canad.	Smilax ecirrhata
Dentaria laciniata	Lappula virgin.	S. herbacea
Desmodium acumin.	Lathyrus ochrol.	S. hispida
D. nudiflorum	Lonicera prolif.	Solidago altissima
Dicentra cucullaria	Lysimachia quadr.	S. latifolia
Dodecatheon meadia	Maianthemum can.	S. ulmifolia
Dryopteris spinulosa	Menispermum can.	Thalictrum dioicum
Erigeron pulchellus	Mitella diphylla	Trillium cernuum
Erythronium albidum	Monarda fistulosa	T. flexipes
	Orchis spectab.	T. grandiflorum
	Oryzopsis racem.	T. recurvatum
	Osmorhiza clayton.	Triosteum perfoliatum
	O. longistylis	Uvularia grandiflora
	Osmunda clayton.	Veronicastrum virg.
	Panax quinquef.	Viburnum acerifolium
	Panicum latifolium	V. affine
	Parietaria pennsylv.	Viola cucullata
	Parthenocissus vit.	V. pubescens
	Phlox divaricata	Vitis aestivalis
	Phryma leptostachya	V. riparia
	Podophyllum pelt.	Zanthoxylum americ.
	Polemonium reptans	Zizia aurea

✓ Corymb

I Hardwood Survey

Presence & Station Record

Stand No.: 12

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa — 20		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 14		
B. papyrifera			Populus deltoii			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance: 10 1/2 ft

			Shrubs & Herbs					
Actaea sp.			Eupatorium purpur.			Polygonatum commut.		
Adiantum pedat.			Eupatorium rugosum			Polygonatum pubesc.		
Agrimonia gryp.			Festuca obtusa			Polygonum virgin.		
Allium tricocc.			Fragaria virgin.			Potentilla simpl.		
✓ Amphicarpa brac.			✓ Galium aparine			Prenanthes alba		
Anemone quinque.			G. circaezans			Pteridium aquil.		
A. virginiana			G. concinnum			✓ Pyrola elliptica		
Anemone thal.			G. lanceolatum			Ranunculus abort.		
Antennaria sp.			G. triflorum			R. recurvatus		
Aplectrum hiem.			✓ Geranium macul.			R. septentrion.		
Apocynum andros.			Geum canadense			Rhus radicans		
Aquilegia canad.			Goodyera pubesc.			Ribes americanum		
Aralia nudicaul.			Habenaria bract.			R. cynosbati		
A. racemosa			Hamamelis virg.			R. missouriense		
Arenaria later.			Helianthus strum.			Rosa sp.		
Arisaema atrov.			Hepatica acutil.			Rubus alleghen.		
Asarum canad.			Heuchera richard.			R. occidentalis		
Aster macrophyll.			Hydrastis canad.			R. strigosus		
A. sagittifolius			Hydrophyllum virg.			Sambucus canad.		
A. shortii			Hystrix patula			Sanguinaria can.		
✓ Athyrium angust.			Impatiens biflora			Sanicula gregaria		
Aureolaria grandif.			I. pallida			S. marilandica		
Botrychium vir.			Isopyrum bitern.			Smilacina racemosa		
Brachyelytrum			Lactuca spicata			S. stellata		
Campanula amer.			Laportea canad.			Smilax ecirrhata		
Carex albursina			Lappula virgin.			S. herbacea		
C. pennsylvan.			Lathyrus ochrol.			S. hispida		
Caulophyllum thal.			Lonicera proclif.			Solidago altissima		
Celastrus scan.			Lysimachia quadr.			S. latifolia		
✓ Circaea latif.			Maianthemum can.			S. ulmifolia		
Claytonia virg.			Menispermum can.			Thalictrum dioicum		
Cornus altern.			Mitella diphylla			Trillium cernuum		
C. femina			Monarda fistulosa			T. flexipes		
C. rugosa			Orchis spectab.			T. grandiflorum		
✓ Corylus americana			✓ Oryzopsis racem.			T. recurvatum		
Cryptotaenia canad.			✓ Osmorhiza clayton.			Triosteum perfoliatum		
Cypripedium pubesc.			O. longistylis			Uvularia grandiflora		
Cystopteris frag.			Osmunda clayton.			Veronicastrum virg.		
Dentaria laciniata			Panax quinquef.			Viburnum acerifolium		
✓ Desmodium acumin.			Panicum latifolium			V. affine		
D. nudiflorum			Parietaria pennsylv.			Viola cucullata		
Dicentra cucullaria			Parthenocissus vit.			V. pubescens		
Dodecatheon meadia			Phlox divaricata			Vitis aestivalis		
Dryopteris spinulosa			Phryma leptostachya			V. riparia		
Erigeron pulchellus			Podophyllum pelt.			Zanthoxylum americ.		
Erythronium albidum			Polemonium reptans			Zizia aurea		

I Hardwood Survey

Presence & Station Record

Stand No.:

13

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 60, 150			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoï			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
C. cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrov.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 ✓ Circaea latif.
 Claytonia virg.
 Cornus altern.
 ✓ C. femina
 C. rugosa
 ✓ Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 ✓ Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 G. triflorum
 ✓ Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 ✓ Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrium virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.:

14

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	105	130
B. papyrifera			Populus deltoii			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Cornus cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

30 ft.

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓Amphicarpa brac.	✓Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	✓G. triflorum	R. recurvatus
Aplectrum hiem.	✓Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera proclif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
✓Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	✓Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	✓V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	✓Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	✓Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.:

15

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 80, 40		
B. papyrifera			Populus deltoii			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

20.5 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Aggimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	✓ Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	✓ Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
✓ Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lappula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
✓ Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
Cryptotaenia canad.	✓ Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	✓ Parthenocissus vit.	✓ V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			✓ J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoï			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	160	215
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

1997

Actaea sp.
Adiantum pedat.
Aggimonia gryp.
Allium tricocc.
Amphicarpa brac.
Anemone quinque.
A. virginiana
Anemone thal.
Antennaria sp.
Aplectrum hiem.
Apocynum andros.
Aquilegia canad.
Aralia nudicaul.
A. racemosa
Arenaria later.
Arisaema atror.
Asarum canad.
Aster macrophyll.
A. sagittifolius
A. shortii
Athyrium angust.
Aureolaria grandif.
Botrychium vir.
Brachyelytrum
Campanula amer.
Carex albursina
C. pennsylvan.
Caulophyllum thal.
Celastrus scan.
Circaea latif.
Claytonia virg.
Cornus altern.
C. femina
C. rugosa
Corylus americana
Cryptotaenia canad.
Cypripedium pubesc.
Cystopteris frag.
Dentaria laciniata
Desmodium acumin.
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
Eupatorium rugosum
Festuca obtusa
Fragaria virgin.
✓ Galium aparine
G. circaeans
G. concinnum
G. lanceolatum
✓ G. triflorum
Geranium macul.
Geum canadense
Goodyera pubesc.
Habenaria bract.
Hamamelis virg.
Helianthus strum.
Hepatica acutil.
Heuchera richard.
Hydrastis canad.
Hydrophyllum virg.
Hystrix patula
Impatiens biflora
I. pallida
Isopyrum bitern.
Lactuca spicata
Laportea canad.
Lappula virgin.
Lathyrus ochrol.
Lonicera prolif.
Lysimachia quadr.
Maianthemum can.
Menispermum can.
Mitella diphylla
Monarda fistulosa
Orchis spectab.
Oryzopsis racem.
Osmorhiza clayton.
O. longistylis
Osmunda clayton.
Panax quinquef.
Panicum latifolium
Parietaria pennsylv.
Parthenocissus vit.
Phlox divaricata
Phryma leptostachya
Podophyllum pelt.
Polemonium reptans

Polygonatum commut.
Polygonatum pubesc.
Polygonum virgin.
Potentilla simpl.
Prenanthes alba
Pteridium aquil.
Pyrola elliptica
Ranunculus abort.
R. recurvatus
R. septentrion.
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus alleghen.
R. occidentalis
R. strigosus
Sambucus canad.
Sanguinaria can.
✓ Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. hispida
Solidago altissima
S. latifolia
S. ulmifolia
Thalictrum dioicum
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virg.
Viburnum acerifolium
V. affine
✓ Viola cucullata
✓ V. pubescens
Vitis aestivalis
V. riparia
Zanthoxylum americ.
Zizia aurea

✓ u. resinifera

I Hardwood Survey

Presence & Station Record

Stand No.:

17

Tree	: BA	: S	Tree	: BA	: S	Tree	: BA	: S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa — 190		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva — 120		
Crataegus sp.			P. serotina					18 ft

Distance:

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 ✓ Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrov.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 ✓ Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 ✓ Galium aparine
 G. circaezans
 G. concinnum
 G. lanceolatum
 ✓ G. triflorum
 Geranium macul.
 ✓ Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 ✓ Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 Lactuca spicata
 Laportea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera proclif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 ✓ Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 ✓ V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.: 18

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	140		Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra	90-3		Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoï			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance: 20.5 ft

Actaea sp.
 Adiantum pedat.
 Agrimonia gryp.
 Allium tricocc.
 ✓ Amphicarpa brac.
 Anemone quinque.
 A. virginiana
 Anemone thal.
 Antennaria sp.
 Aplectrum hiem.
 Apocynum andros.
 Aquilegia canad.
 Aralia nudicaul.
 A. racemosa
 Arenaria later.
 Arisaema atrov.
 Asarum canad.
 Aster macrophyll.
 A. sagittifolius
 A. shortii
 ✓ Athyrium angust.
 Aureolaria grandif.
 Botrychium vir.
 Brachyelytrum
 Campanula amer.
 Carex albursina
 C. pennsylvan.
 Caulophyllum thal.
 Celastrus scan.
 Circaea latif.
 Claytonia virg.
 Cornus altern.
 C. femina
 C. rugosa
 Corylus americana
 Cryptotaenia canad.
 Cypripedium pubesc.
 Cystopteris frag.
 Dentaria laciniata
 Desmodium acumin.
 D. nudiflorum
 Dicentra cucullaria
 Dodecatheon meadia
 Dryopteris spinulosa
 Erigeron pulchellus
 Erythronium albidum

Shrubs & Herbs
 Eupatorium purpur.
 Eupatorium rugosum
 Festuca obtusa
 Fragaria virgin.
 ✓ Galium aparine
 G. circaeans
 G. concinnum
 G. lanceolatum
 G. triflorum
 ✓ Geranium macul.
 Geum canadense
 Goodyera pubesc.
 Habenaria bract.
 Hamamelis virg.
 Helianthus strum.
 Hepatica acutil.
 Heuchera richard.
 Hydrastis canad.
 Hydrophyllum virg.
 ✓ Hystrix patula
 Impatiens biflora
 I. pallida
 Isopyrum bitern.
 ✓ Lactuca spicata
 Laporthea canad.
 Lappula virgin.
 Lathyrus ochrol.
 Lonicera prolif.
 Lysimachia quadr.
 Maianthemum can.
 Menispermum can.
 Mitella diphylla
 Monarda fistulosa
 Orchis spectab.
 Oryzopsis racem.
 Osmorhiza clayton.
 O. longistylis
 Osmunda clayton.
 Panax quinquef.
 Panicum latifolium
 Parietaria pennsylv.
 Parthenocissus vit.
 Phlox divaricata
 Phryma leptostachya
 Podophyllum pelt.
 Polemonium reptans

Polygonatum commut.
 Polygonatum pubesc.
 Polygonum virgin.
 Potentilla simpl.
 Prenanthes alba
 Pteridium aquil.
 Pyrola elliptica
 Ranunculus abort.
 R. recurvatus
 R. septentrion.
 Rhus radicans
 Ribes americanum
 R. cynosbati
 R. missouriense
 Rosa sp.
 Rubus alleghen.
 R. occidentalis
 R. strigosus
 Sambucus canad.
 Sanguinaria can.
 ✓ Sanicula gregaria
 S. marilandica
 Smilacina racemosa
 S. stellata
 Smilax ecirrhata
 S. herbacea
 S. hispida
 Solidago altissima
 S. latifolia
 S. ulmifolia
 Thalictrum dioicum
 Trillium cernuum
 T. flexipes
 T. grandiflorum
 T. recurvatum
 Triosteum perfoliatum
 Uvularia grandiflora
 Veronicastrum virg.
 Viburnum acerifolium
 V. affine
 Viola cucullata
 V. pubescens
 Vitis aestivalis
 V. riparia
 Zanthoxylum americ.
 Zizia aurea

✓ Citron

I Hardwood Survey

Presence & Station Record

Stand No.:

19

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra	110		Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american	-35	
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

24.5 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agacimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
Amphicarpa brac.	Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	Geranium macul.	R. septentrion.
Apocynum andros.	Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
✓ Arisaema atrov.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	✓ R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	✓ Hystrix patula	Sanguinaria can.
✓ Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Lamortea canad.	Smilax ecirrhata
Carex albursina	Lapoula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera prolif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Oryzopsis racem.	T. recurvatum
✓ Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	✓ Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
✓ Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	Viola cucullata
Dicentra cucullaria	✓ Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

I Hardwood Survey

Presence & Station Record

Stand No.:

20

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinerea			Q. macrocarpa	365	
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoï			Robinia pseudo		
Cornus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american	50	
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					

Distance:

25 1/2 ft

Shrubs & Herbs

Actaea sp.	Eupatorium purpur.	Polygonatum commut.
Adiantum pedat.	Eupatorium rugosum	Polygonatum pubesc.
Agrimonia gryp.	Festuca obtusa	Polygonum virgin.
Allium tricocc.	Fragaria virgin.	Potentilla simpl.
✓Amphicarpa brac.	✓Galium aparine	Prenanthes alba
Anemone quinque.	G. circaezans	Pteridium aquil.
A. virginiana	G. concinnum	Pyrola elliptica
Anemone thal.	G. lanceolatum	Ranunculus abort.
Antennaria sp.	G. triflorum	R. recurvatus
Aplectrum hiem.	✓Geranium macul.	R. septentrion.
Apocynum andros.	✓Geum canadense	Rhus radicans
Aquilegia canad.	Goodyera pubesc.	Ribes americanum
Aralia nudicaul.	Habenaria bract.	R. cynosbati
A. racemosa	Hamamelis virg.	R. missouriense
Arenaria later.	Helianthus strum.	Rosa sp.
Arisaema atror.	Hepatica acutil.	Rubus alleghen.
Asarum canad.	Heuchera richard.	R. occidentalis
Aster macrophyll.	Hydrastis canad.	R. strigosus
A. sagittifolius	Hydrophyllum virg.	Sambucus canad.
A. shortii	Hystrix patula	Sanguinaria can.
Athyrium angust.	Impatiens biflora	Sanicula gregaria
Aureolaria grandif.	I. pallida	S. marilandica
Botrychium vir.	Isopyrum bitern.	Smilacina racemosa
Brachyelytrum	Lactuca spicata	S. stellata
Campanula amer.	Laportea canad.	Smilax ecirrhata
Carex albursina	Lapula virgin.	S. herbacea
C. pennsylvan.	Lathyrus ochrol.	S. hispida
Caulophyllum thal.	Lonicera proclif.	Solidago altissima
Celastrus scan.	Lysimachia quadr.	S. latifolia
✓Circaea latif.	Maianthemum can.	S. ulmifolia
Claytonia virg.	Menispermum can.	Thalictrum dioicum
Cornus altern.	Mitella diphylla	Trillium cernuum
✓C. femina	Monarda fistulosa	T. flexipes
C. rugosa	Orchis spectab.	T. grandiflorum
Corylus americana	Cryzopsis racem.	T. recurvatum
✓Cryptotaenia canad.	Osmorhiza clayton.	Triosteum perfoliatum
Cypripedium pubesc.	O. longistylis	Uvularia grandiflora
Cystopteris frag.	Osmunda clayton.	Veronicastrum virg.
Dentaria laciniata	Panax quinquef.	Viburnum acerifolium
Desmodium acumin.	Panicum latifolium	V. affine
D. nudiflorum	Parietaria pennsylv.	✓Viola cucullata
Dicentra cucullaria	Parthenocissus vit.	V. pubescens
Dodecatheon meadia	Phlox divaricata	Vitis aestivalis
Dryopteris spinulosa	Phryma leptostachya	V. riparia
Erigeron pulchellus	Podophyllum pelt.	Zanthoxylum americ.
Erythronium albidum	Polemonium reptans	Zizia aurea

Lilium philadelph

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 24			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 370		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: 13 1/2 ft		
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 28			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 85			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: 17 ft		
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 290			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa — 125		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: 22 ft		
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 200", 40			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: 11 ft		

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 60			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 28			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			C. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		10 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum — 18"			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 95			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		17 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american	245	
C. ovata			Prunus americ.			Ulmus american	115"	
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		14 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	160, 220	
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		33 ft

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa	100	
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american	135	
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance:		17 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	14	60	Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance:		13 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	120		Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	145	
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance:		16 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa	50, 190	
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance:		15 ft

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	55		Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	35	
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		6 1/2 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum	18		Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american	-120	
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		20.5 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina	90	
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinis carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		33 ft
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		800
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa	35	
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:		7 1/2 ft

III Hardwood Survey

Station Record-Trees

Stand No.

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 22			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa — 165		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: — 12 1/2 ft		
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Jugland cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 70		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american — 18		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: — 16 ft		
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 140			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american — 360		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: — 23 ft		
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra — 90			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra		
B. nigra			Ostrya virgin.			Q. velutina — 100		
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina			Distance: — 15 ft		

THE CORTICOLOUS VEGETATION OF THE NORTHERN WISCONSIN UPLAND
Data collected by William L. Culberson, Summers 1952-1953.

From a 40-tree sample, the continuum index of this stand is 1877.....
Abbreviations in the data sheet refer to the following species:

Alectoria nidulifera
Allarthonia caesia
Anaptychia palmatula
Anaptychia speciosa
Arthonia radiata
Bacidia chlorococca
Bacidia fuscorubella
Bacidia sp.
Buellia punctata
Buellia stillingiana
Caloplaca aurantiaca
Caloplaca cerina
Caloplaca sp.
Candelaria concolor
Candelaria fibrosa
Cetraria atlantica
Cetraria ciliaris
Cetraria fendleri
Cetraria oakesiana
Cetraria pinastri
Cladonia botrytes
Cladonia cenotea
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia verticillata
Collema subfurvum
Conotrema urceolatum
Evernia mesomorpha
Graphis scripta
Lecanora pallida
Lecanora subfusca
Lecanora varia
Lecidea berengeriana
Lecidea nylanderi
Lecidea vernalis
Lepraria aeruginosa
Leptorhaphis epidermidis
Le sym - unknown crustose
Lobaria pulmonaria
Lobaria Quercizans
Normandina pulchella
Ochrolechia pallescens
Opegrapha varia
Parmelia andreana
Parmelia aurulenta
Parmelia borrieri
Parmelia caperata
Parmelia cetrarioides
Parmelia crinita
Parmelia physodes
Parmelia rudecta

Parmelia saxatilis
Parmelia subaurifera
Parmelia subquercifolia
Parmelia sulcata
Parmelia trichotera
Parmeliopsis ambigua
Parmeliopsis hyperopta
Parmeliopsis placorodia
Peltigera canina
Pertusaria sp.
Physcia aipolia
Physcia ascendens
Physcia ciliata
Physcia grisea
Physcia millegrana
Physcia orbicularis
Physcia syncolla
Physcia tribacoides
Pyrenula leucoplaca
Pyrenula nitida
Pyxine sorediata
Ramalina fastigiata
Ramalina pollinaria
Rinodina halei
Rinodina papillata
Rinodina sp.
Trypethelium virens
Usnea sp.
Xanthoria fallax
Xanthoria polycarpa

(Bryophytes)

Amblystegium varium
Anomodon attenuatus
Anomodon minor
Anomodon rostratus
Anomodon tristis
Bazzania trilobata
Brachythecium sp.
Brotherella recurvans
Campylium hispidulum
Chamberlainia acuminata
Dicranum flagellare
Dicranum montanum
Dicranum sp.
Entodon sp.
Eurhynchium serrulatum
Eurhynchium strigosum
Frullania asagrayana
Frullania bolanderi
Frullania eboracensis
Heterophyllum
 haldanianum
Hypnum reptile
Hypnum sp.
Jamesoniella autumnalis
Leskea sp.
Leucodon sciuroides
Lindbergia brachyptera
 var. *austini*
Lophocolea heterophylla
Mnium cuspidatum
Mnium spinulosum
Neckera pennata
Orthotrichum sp.
Plagiochila asplenioides
Plagiothecium sp.
Platygyrium repens
Porella platy-
 phylloidea
Ptilidium pulcherrimum
Pylasia sp.
Radula complanata
Tetraphis pellucida
Thuidium delicatulum
Ulota crispa

Ecology Laboratory
University of Wisconsin
Madison

Cryptogam Summary. DBH Level ~~BASIC~~ W.L.Culberson. Stand No.

No. trees	Ac rub	Ac sac	Be lut	Be pap	Fa gra	Os vir	Pi ban	Pi res	Pi str	Po gra	Po tre	Pr ser	Qu alb	Qu ell	Qu rub	Tl ame	Ts oan	Ul ame	Fr ame	Total	Frequency
Ar imp	15														1					16	40
Ba chl	14														1					15	38
Bu sti																				1	3
Ca aur																				1	3
Cn con	12												5		1			1		27	68
Cr neg	15												4		2			4	1	25	63
Gr scr	9														2					11	28
Le sub	6														1					7	18
Le sym	1																			1	3
Le var	8																			8	20
Op var													2						1	3	8
Pa and	3																			3	8
Pa aur	14														2			1		17	43
Pa bor	1																			1	3
Pa cap	4														1					10	25
Pa rud	11														1			1		13	33
Pa s-q	7																			7	18
Pa sul	4																			4	10
Ph aip	4														1					5	13
Ph cil																			1	1	3
Ph gri	3												3					7	7	13	33
Ph mil	17												1		2			1	1	21	53
Ph orb	4												6		2			8	1	21	53
Ph tri	1												2		1			4		8	20
Ra fas	12																			12	30
Ri hal	1														1					2	5
Xa fal	1												3					4		8	20
	172												16		20			39	4	261	
An min													4					6		10	25
Fr bol	4																			4	10
Fr ebo	2														1			1		4	10
Li aus	5												3					7		15	38
Or sp.													1					4		5	13
Pl rep	7												4		1			3		15	38
Py sp.													1					2		3	8
	18												13		2			23	0	56	