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## Site 1070: Wingra Woods (Arboretum), Dane County, Township 7N, Range 9E, Section 27. 1948

[s.l.]: [s.n.], 1948

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Stand No: **1070**  
 County: *Dane*  
 Date: *1948*  
 Size of Stand:  
 Forest Type: *Oak*  
 Topography:

Name: *Wingra Woods (Arboretum)*  
 T: *7N* R: *9E* Sec: *27* Locality:  
 Observers: *J.T.C.*

Size of Area Sampled:  
 Soil Type:

Condition of Stand:

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 <sub>0</sub> _____	---	---	---	---	_____	---	---
A <sub>1</sub> _____	---	---	---	---	_____	---	---
A <sub>2</sub> _____	---	---	---	---	_____	---	---

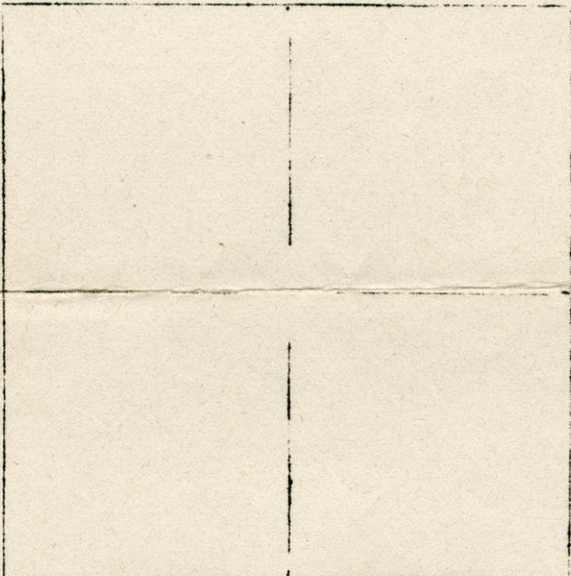
Depth                      Characteristics (Color, texture, etc.)

- A<sub>0</sub>\_\_\_\_\_
- A<sub>1</sub>\_\_\_\_\_
- A<sub>2</sub>\_\_\_\_\_
- B \_\_\_\_\_

Parent Material:

Remarks:

Map





Wingra Woods  
1070

III Hardwood Survey

Station Record-Trees

Stand No. 1070

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		270
B. nigra			Ostrya virgin.			Q. velutina		270
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	
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		155, 210
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:	28.5	
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		570, 130
B. nigra			Ostrya virgin.			Q. velutina		
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:	31.5	
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		155, 160
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:	17.5	



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		
Betula lutea			J. nigra			Q. rubra	420,300	
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:	30	
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	350,360	
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:	17.5	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	170	
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	240	
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:	16	
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	40,33		Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:	18	



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		75, 330
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:		36
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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		150, 420
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:		31
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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		110
B. nigra			Ostrya virgin.			Q. velutina		258
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:		10.5
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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		125
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	26		Distance:		28.5
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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	125	
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	110		Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:	34.5	
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	180	
B. nigra			Ostrya virgin.			Q. velutina	150	
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:	20	
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	130	
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:	18	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor	67	
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	490	
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:	32	



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			C. rubra	425,490	
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:		37
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	281,120	
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:		42
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			C. rubra	175	
B. nigra			Ostrya virgin.			Q. velutina	335	
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:		275
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	200	
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	258	
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:		195



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	75	
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			C. rubra	200	
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	
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	83	
B. papyrifera			Populus deltoi			Robinia pseudo		
Carpinus carol			P. grandident.			Sorbus americ.		
Carya cordifor			P. tremuloides			Tilia american		
C. ovata	115		Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		
Crataegus sp.			P. serotina					
						Distance:	33.5	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	160	
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum			F. pennsylvan.			Q. ellipsoid.		
Amelanchier sp.			Juglans cinere			Q. macrocarpa		
Betula lutea			J. nigra			Q. rubra	240	
B. nigra			Ostrya virgin.			Q. velutina		
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:	27.	
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	160-285	
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:	20	



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		
Betula lutea			J. nigra			Q. rubra	175-140	
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:	23	
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	190-450	
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:	26	
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	350	
B. nigra			Ostrya virgin.			Q. velutina	310	
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:	22	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	40-65	
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:	12.5	



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		
Betula lutea			J. nigra			Q. rubra	365-210	
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
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	78	
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	270	
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
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		
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:		
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:		



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 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:		
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		
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:		
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:		
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:		



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		
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:

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		
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:

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:

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:



Presence or Frequency  
(Common species only)

## SOUTHERN UPLAND HARDWOODS

Stand No. 1070  
Quadrat No.

Actaea pachypoda  
Adiantum pedatum  
//// Agrimonia gryposepala  
Allium tricoccum  
//+ Amhicarpa braceata  
Anemone quinquefolia  
A. virginiana  
Anemonella thalictroides  
Antennaria sp.  
Aplectrum hiemale  
Apocynum androsaemifolium  
Aquilegia canadensis  
+ Aralia nudicaulis  
A. racemosa  
Arenaria lateriflora  
Arisaema atrorubens  
Asarum canadensis  
Aster macrophyllus  
/// A. sagittifolius  
A. shortii  
Athyrium filix-femina  
Botrychium virginianum  
Brachyelytrum erectum  
Campanula americana  
Carex albursina  
C. pensylvanica  
Caulophyllum thalictroides  
/ Celastrus scandens  
//// Circaea quadrisulcata  
Claytonia virginiana  
C<sup>11</sup> // Cornus alternifolia  
C. femina  
C. rugosa  
/ Corylus americana  
Cryptotaenia canadensis  
Cypripedium pubescens  
Cystopteris fragilis  
+ Dentaria laciniata  
+ + + + Desmodium glutinosum  
D. nudiflorum  
Dicentra cucullaria  
Dodecatheon meadia  
Dryopteris spinulosa  
Erigeron pulchellus  
Erythronium albidum  
Eupatorium purpureum

/// Eupatorium rugosum  
Festuca obtusa  
Fragaria virginiana  
Galium aparine  
G. circaeans  
/ + + + G. concinnum  
G. lanceolatum  
G. triflorum  
/// + + + + Geranium maculatum  
Gerardia grandiflora  
Geum canadense  
Goodyera pubescens  
Habenaria bracteata  
Hackelia virginica  
Hamamelis virginiana  
/// Helianthus strumosus  
Hepatica acutiloba  
Heuchera richardsonii  
Hydrastis canadensis  
// Hydrophyllum virginianum  
/ Hystrix patula  
/ Impatiens capensis  
I. pallida  
Isopyrum biternatum  
/ Lactuca biennis  
Laportea canadensis  
Lathyrus ochroleucus  
( Lonicera prolifera <sup>Tartaroc</sup>  
Lysimachia quadrifolia  
Maianthemum canadensis  
Menispermum canadensis  
Mitella diphylla  
Monarda fistulosa  
Orchis spectabilis  
Oryzopsis racemosa  
/ + + + Osmorhiza clayton.  
O. longistylis  
Osmunda claytoni  
Panax quinquefolia  
Panicum latifolium  
Parietaria pennsylvanica  
/ + + + Parthenocissus inserta  
Phlox divaricata  
/// + + + + Phryma leptostachya  
Podophyllum peltatum  
Polemonium reptans

/ Polygonatum canaliculatum  
Polygonatum pubescens  
Potentilla simplex  
Prenanthes alba  
Pteridium aquilinum  
Pyrola elliptica  
Ranunculus abortivus  
R. recurvatus  
R. septentrionalis  
/ Rhus radicans  
Ribes americanum  
R. cynosbati  
/ R. missouriense  
/ Rosa sp.  
/ + + + + Rubus allegheniensis  
R. occidentalis  
R. strigosus  
/ Sambucus canadensis  
/// Sanguinaria canadensis  
/ + + + Sanicula gregaria  
S. marilandica  
/ Smilacina racemosa  
S. stellata  
Smilax ecirrhata  
S. herbacea  
S. tamnoides  
Solidago altissima  
S. flexicaulis  
S. ulmifolia  
/ Thalictrum dioicum  
Tovara virginiana  
Trillium cernuum  
T. flexipes  
T. grandiflorum  
T. recurvatum  
Triosteum perfoliatum  
Uvularia grandiflora  
/ Veronicastrum virginicum  
Viburnum acerifolium  
V. rafinesquianum  
/ Viola cucullata  
V. pubescens  
/ Vitis aestivalis  
V. riparia  
Xanthoxylum americ.  
Zizia aurea

## Additional species:

1 Arctium tomentosum  
~~/// Aster~~  
1 Athyrium filix-femina  
var. michauxii  
// + + + Carex  
// Dioscorea villosa

~~/// Eupatorium~~  
~~/// Galium boreale~~  
~~/// Galium~~  
1 Onoclea sensibilis  
// Oxalis violacea

11 Plantago major  
1 Rosa  
~~1 Viola~~



Presence or Frequency  
(Common species only)

## SOUTHERN UPLAND HARDWOODS

Stand No.  
Quadrat No.

Actaea pachypoda	Eupatorium rugosum	Polygonatum canaliculatum
Adiantum pedatum	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala 4	Fragaria virginiana	Potentilla simplex
Allium tricoccum	Galium aparine	Prenanthes alba
Amphicarpa braceata 2	G. circaezans	Pteridium aquilinum
Anemone quinquefolia	G. concinnum	Pyrola elliptica
A. virginiana	G. lanceolatum	Ranunculus abortivus
Anemonella thalictroides	G. triflorum	R. recurvatus
Antennaria sp.	Geranium maculatum 135	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans
Apocynum androsaemifolium	Geum canadense	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati
Aralia nudicaulis 45	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp.
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis 124
Arisaema atrorubens	Helianthus strumosus /	R. occidentalis
Asarum canadensis	Hepatica acutiloba	R. strigosus
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis
A. sagittifolius	Hydrastis canadensis	Sanguinaria canadensis
A. shortii	Hydrophyllum virginianum	Sanicula gregaria 23
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum	Impatiens capensis	Smilacina racemosa /
Brachyelytrum erectum	I. pallida	S. stellata
Campanula americana	Isopyrum biternatum	Smilax ecirrhata
Carex albursina	Lactuca biennis	S. herbacea
C. pensylvanica	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides	Lathyrus ochroleucus	Solidago altissima
Celastrus scandens	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata 25	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana	Maianthemum canadensis	Thalictrum dioicum /
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina	Mitella diphylla	Trillium cernuum
C. rugosa	Monarda fistulosa	T. flexipes
Corylus americana	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza claytoni 34	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis	Uvularia grandiflora
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum 1345	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica	Viola cucullata
Dodecatheon meadia	Parthenocissus inserta 5	V. pubescens
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya 245	V. riparia
Erythronium albidum	Podophyllum peltatum	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans	Zizia aurea

Additional species:

*Carex 134**Dalium coll 2**Dalium boreale 23**Cornus coll 23**Eupatorium white 3**Prunus acer seedling 5*



6-60

*W. Virginia*

Presence or Frequency  
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No.  
Quadrat No.

- Actaea pachypoda
- Adiantum pedatum
- Agrimonia gryposepala 3
- Allium tricoccum
- Amphicarpa braceata 35
- Anemone quinquefolia
- A. virginiana
- Anemonella thalictroides
- Antennaria sp.
- Aplectrum hiemale
- Apocynum androsaemifolium
- Aquilegia canadensis
- Aralia nudicaulis 12
- A. racemosa
- Arenaria lateriflora
- Arisaema atrorubens
- Asarum canadensis
- Aster macrophyllus
- A. sagittifolius
- A. shortii
- Athyrium filix-femina
- Botrychium virginianum
- Brachyelytrum erectum
- Campanula americana
- Carex albursina
- C. pensylvanica
- Caulophyllum thalictroides
- Celastrus scandens
- Circaea quadrisulcata 35
- Claytonia virginiana
- Cornus alternifolia
- C. femina
- C. rugosa
- Corylus americana
- Cryptotaenia canadensis
- Cypripedium pubescens
- Cystopteris fragilis
- Dentaria laciniata
- Desmodium glutinosum 1245
- D. nudiflorum
- Dicentra cucullaria
- Dodecatheon meadia
- Dryopteris spinulosa
- Erigeron pulchellus
- Erythronium albidum
- Eupatorium purpureum

- Eupatorium rugosum
- Festuca obtusa
- Fragaria virginiana
- Galium aparine
- G. circaeans
- G. concinnum
- G. lanceolatum
- G. triflorum
- Geranium maculatum 1245
- Gerardia grandiflora
- Geum canadense
- Goodyera pubescens
- Habenaria bracteata
- Hackelia virginica
- Hamamelis virginiana
- Helianthus strumosus 3
- Hepatica acutiloba
- Heuchera richardsonii
- Hydrastis canadensis
- Hydrophyllum virginianum
- Hystrix patula
- Impatiens capensis
- I. pallida
- Isopyrum biternatum
- Lactuca biennis
- Laportea canadensis
- Lathyrus ochroleucus
- Lonicera prolifera
- Lysimachia quadrifolia
- Maianthemum canadensis
- Menispermum canadensis
- Mitella diphylla
- Monarda fistulosa
- Orchis spectabilis
- Oryzopsis racemosa
- Osmorhiza clayton. 1
- O. longistylis
- Osmunda claytoni
- Panax quinquefolia
- Panicum latifolium
- Parietaria pennsylvanica
- Parthenocissus inserta 12
- Phlox divaricata
- Phryma leptostachya 1245
- Podophyllum peltatum
- Polemonium reptans

- Polygonatum canaliculatum
- Polygonatum pubescens
- Potentilla simplex
- Prenanthes alba
- Pteridium aquilinum
- Pyrola elliptica
- Ranunculus abortivus
- R. recurvatus
- R. septentrionalis
- Rhus radicans
- Ribes americanum
- R. cynosbati
- R. missouriense
- Rosa sp.
- Rubus allegheniensis 23
- R. occidentalis
- R. strigosus
- Sambucus canadensis 1
- Sanguinaria canadensis
- Sanicula gregaria 245
- S. marilandica
- Smilacina racemosa 4
- S. stellata
- Smilax ecirrhata
- S. herbacea
- S. tamnoides
- Solidago altissima
- S. flexicaulis
- S. ulmifolia
- Thalictrum dioicum
- Tovara virginiana
- Trillium cernuum
- T. flexipes
- T. grandiflorum
- T. recurvatum
- Triosteum perfoliatum
- Uvularia grandiflora
- Veronicastrum virginicum
- Viburnum acerifolium
- V. rafinesquianum
- Viola cucullata
- V. pubescens
- Vitis aestivalis 3
- V. riparia
- Xanthoxylum americ.
- Zizia aurea

Additional species:

- Athyrium angustum 1*
- Cornus coll 1*
- Viola 4*
- red oak seedlings 5*

- Prunus serotina 2*
- Acer negundo 3*
- Arctium 3*
- Lonicera tartarica 45*

- Plantago major 3*
- Dalium boreale 3*
- Oxalis 3*
- Carex long 35*



Presence or Frequency  
(Common species only)

## SOUTHERN UPLAND HARDWOODS

Stand No.  
Quadrat No.

11-15  
Actaea pachypoda  
Adiantum pedatum  
Agrimonia grypsosepala ✓  
Allium tricoccum  
Amphicarpa braceata 3  
Anemone quinquefolia  
A. virginiana  
Anemonella thalictroides  
Antennaria sp.  
Aplectrum hiemale  
Apocynum androsaemifolium  
Aquilegia canadensis  
Aralia nudicaulis  
A. racemosa  
Arenaria lateriflora  
Arisaema atrorubens  
Asarum canadensis  
Aster macrophyllus  
A. sagittifolius  
A. shortii  
Athyrum filix-femina  
Botrychium virginianum  
Brachyelytrum erectum  
Campanula americana  
Carex albursina  
C. pensylvanica  
Caulophyllum thalictroides  
Celastrus scandens  
Circaea quadrisulcata  
Claytonia virginiana  
Cornus alternifolia  
C. femina  
C. rugosa  
Corylus americana |  
Cryptotaenia canadensis  
Cypripedium pubescens  
Cystopteris fragilis  
Dentaria laciniata  
Desmodium glutinosum 1245  
D. nudiflorum  
Dicentra cucullaria  
Dodecatheon meadia  
Dryopteris spinulosa  
Erigeron pulchellus  
Erythronium albidum  
Eupatorium purpureum

Eupatorium rugosum  
Festuca obtusa  
Fragaria virginiana  
Galium aparine  
G. circaeazans  
G. concinnum  
G. lanceolatum  
G. triflorum  
Geranium maculatum 145  
Gerardia grandiflora  
Geum canadense  
Goodyera pubescens  
Habenaria bracteata  
Hackelia virginica  
Hamamelis virginiana  
Helianthus strumosus 15  
Hepatica acutiloba  
Heuchera richardsonii  
Hydrastis canadensis  
Hydrophyllum virginianum  
Hystrix patula  
Impatiens capensis 3  
I. pallida 3  
Isopyrum biternatum  
Lactuca biennis  
Laportea canadensis  
Lathyrus ochroleucus  
Lonicera prolifera  
Lysimachia quadrifolia  
Maianthemum canadensis  
Menispermum canadensis  
Mitella diphylla  
Monarda fistulosa  
Orchis spectabilis  
Oryzopsis racemosa  
Osmorhiza clayton. 4  
O. longistylis  
Osmunda claytoni  
Panax quinquefolia  
Panicum latifolium  
Parietaria pennsylvanica  
Parthenocissus inserta  
Phlox divaricata  
Phryma leptostachya 134  
Podophyllum peltatum  
Polemonium reptans

Wingra  
Polygonatum canaliculatum 4  
Polygonatum pubescens  
Potentilla simplex  
Prenanthes alba  
Pteridium aquilinum  
Pyrola elliptica  
Ranunculus abortivus  
R. recurvatus  
R. septentrionalis  
Rhus radicans 5  
Ribes americanum  
R. cynosbati  
R. missouriense  
Rosa sp.  
Rubus allegheniensis 1235  
R. occidentalis  
R. strigosus  
Sambucus canadensis  
Sanguinaria canadensis 5  
Sanicula gregaria  
S. marilandica  
Smilacina racemosa  
S. stellata  
Smilax ecirrhata  
S. herbacea  
S. tannoides  
Solidago altissima  
S. flexicaulis  
S. ulmifolia  
Thalictrum dioicum  
Tovara virginiana  
Trillium cernuum  
T. flexipes  
T. grandiflorum  
T. recurvatum  
Triosteum perfoliatum  
Uvularia grandiflora  
Veronicastrum virginicum 2  
Viburnum acerifolium  
V. rafinesquianum  
Viola cucullata  
V. pubescens  
Vitis aestivalis  
V. riparia  
Xanthoxylum americ.  
Zizia aurea

Additional species:

Galium bore. 12  
Rosa 1  
Dulcinea bore. 5

Carex 125  
Prunus acerifolia

decumbent Aster 2  
Dioscorea 3



Presence or Frequency  
(Common species only)

## SOUTHERN UPLAND HARDWOODS

Stand No. *Wingra*  
Quadrat No.

Actaea pachypoda  
Adiantum pedatum  
Agrimonia gryposepala 3  
Allium tricoccum  
Amphicarpa braceata 123  
Anemone quinquefolia  
A. virginiana  
Anemonella thalictroides  
Antennaria sp.  
Aplectrum hiemale  
Apocynum androsaemifolium  
Aquilegia canadensis  
Aralia nudicaulis 4  
A. racemosa  
Arenaria lateriflora  
Arisaema atrorubens  
Asarum canadensis  
Aster macrophyllus  
A. sagittifolius  
A. shortii  
Athyrum filix-femina  
Botrychium virginianum  
Brachyelytrum erectum  
Campanula americana  
Carex albursina  
C. pennsylvanica  
Caulophyllum thalictroides  
Celastrus scandens 5  
Circaea quadrisulcata 1  
Claytonia virginiana  
Cornus alternifolia  
C. femina  
C. rugosa  
Corylus americana  
Cryptotaenia canadensis  
Cypripedium pubescens  
Cystopteris fragilis  
Dentaria laciniata  
Desmodium glutinosum 234  
D. nudiflorum  
Dicentra cucullaria  
Dodecatheon meadia  
Dryopteris spinulosa  
Erigeron pulchellus  
Erythronium albidum  
Eupatorium purpureum

Eupatorium rugosum  
Festuca obtusa  
Fragaria virginiana  
Galium aparine  
G. circaeazans  
G. concinnum  
G. lanceolatum  
G. triflorum  
Geranium maculatum 125  
Gerardia grandiflora  
Geum canadense  
Goodyera pubescens  
Habenaria bracteata  
Hackelia virginica  
Hamamelis virginiana  
Helianthus strumosus  
Hepatica acutiloba  
Heuchera richardsonii  
Hydrastis canadensis  
Hydrophyllum virginianum 13  
Hystrix patula 3  
Impatiens capensis  
I. pallida  
Isopyrum biternatum  
Lactuca biennis 3  
Laportea canadensis  
Lathyrus ochroleucus  
Lonicera prolifera  
Lysimachia quadrifolia  
Maianthemum canadensis  
Menispermum canadensis  
Mitella diphylla  
Monarda fistulosa  
Orchis spectabilis  
Oryzopsis racemosa  
Osmorhiza clayton. 5  
O. longistylis  
Osmunda claytoni  
Panax quinquefolia  
Panicum latifolium  
Parietaria pennsylvanica  
Parthenocissus inserta 124  
Phlox divaricata  
Phryma leptostachya 234  
Podophyllum peltatum  
Polemonium reptans

Polygonatum canaliculatum  
Polygonatum pubescens  
Potentilla simplex  
Prenanthes alba  
Pteridium aquilinum  
Pyrola elliptica  
Ranunculus abortivus  
R. recurvatus  
R. septentrionalis  
Rhus radicans  
Ribes americanum  
R. cynosbati  
R. missouriense 5  
Rosa sp.  
Rubus allegheniensis 34  
R. occidentalis  
R. strigosus  
Sambucus canadensis  
Sanguinaria canadensis 45  
Sanicula gregaria 5  
S. marilandica  
Smilacina racemosa  
S. stellata  
Smilax ecirrhata  
S. herbacea  
S. tamnoides  
Solidago altissima  
S. flexicaulis  
S. ulmifolia  
Thalictrum dioicum  
Tovara virginiana  
Trillium cernuum  
T. flexipes  
T. grandiflorum  
T. recurvatum  
Triosteum perfoliatum  
Uvularia grandiflora  
Veronicastrum virginicum  
Viburnum acerifolium  
V. rafinesquianum  
Viola cucullata  
V. pubescens  
Vitis aestivalis  
V. riparia  
Xanthoxylum americ.  
Zizia aurea

Additional species:

✓ Cornus 1  
Daleurone 24  
Daleurone 2

Dioscorea 2  
Eupatorium white 35  
Osmorhiza sens. 5  
✓ Prunus 5

Asarum 3  
decurrent Aster 34  
Plantago major 3



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 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.			✓H. fulva		
Crataegus sp.			✓P. serotina			✓Morus rubra		

Distance:

Tree	BA	S	Tree	BA	S	Tree	BA	S
✓Actaea sp.			<u>Shrubs &amp; Herbs</u>			✓Polygonatum commut.		
✓Adiantum pedat.			Eupatorium purpur.			✓Polygonatum pubesc.		
✓Agrimonia gryp.			Eupatorium rugosum			Polygonum virgin.		
Allium tricocc.			Festuca obtusa			✓Potentilla simpl.		
Amphicarpa brac.			Fragaria virgin.			Prenanthes alba		
✓Anemone quinque.			✓Galium aparine			✓Pteridium aquil.		
A. virginiana			G. circaezans			✓Pyrola elliptica		
Anemonella thal.			✓G. concinnum			✓Ranunculus abort.		
Antennaria sp.			G. lanceolatum			✓R. recurvatus		
Aplectrum hiem.			G. triflorum			R. septentrion.		
✓Apocynum andros.			✓Geranium macul.			✓Rhus radicans		
Aquilegia canad.			✓Geum canadense			✓Ribes americanum		
✓Aralia nudicaul.			Goodyera pubesc.			R. cynosbati		
A. racemosa			✓Habenaria bract.			✓R. missouriense		
Arenaria later.			Hamamelis virg.			✓Rosa sp.		
Arisaema atrop.			✓Helianthus strum.			✓Rubus alleghen.		
Asarum canad.			Hepatica acutil.			R. occidentalis		
✓Aster macrophyll.			Heuchera richard.			✓R. strigosus		
A. sagittifolius			Hydrastis canad.			✓Sambucus canad.		
A. shortii			✓Hydrophyllum virg.			✓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			✓Wularia 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		



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. ioensis
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.	Lilium philadel.	Staphylea trifolia
Chimaphila umbell.	Liparis liliifolia	Steironema ciliatum
Cirsium altissim.	Lobelia cardinalis	S. lanceolatum
Clematis virgin.	Lonicera dicica	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 cinnanomea	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:



169 - Class. 1949.  
48 pts  
Wingee Woods.

C

Tree	#		Size Cl. sq. in -80; -320; 321; Dom.	#		F.% Seed	F.% Tr.	D.% Tr.	Dom % Tr.	D F D Index	CI	Station No. <b>1070</b>
	Pts	Tr.		Sap	Seed							
Acer rubrum												Total Length of Transect.
A. sacchar.												Total Area of Transect.
Carya cord.												Ave. Dist. Btw'n Trees
7.5 C. ovata	3	4	298			5.25	5.0	1.8	12.05	42.18	(3.5)	23.8
Fagus gran.												Saplings/unit area
Fraxinus am												Ave. BA (Total BA=80) 212.2
F. penn.												No. Trees/acre
Juglans cin												89.8
J. nigra												Dom./acre
Ostrya vir.												18,885.8
Populus gr.												
P. tremuloi												
2.5 Prunus sero	1	1	26			1.75	1.25	.1	3.1	10.8	(3.5)	
26.5 Quercus al.	11	15	1920			19.25	18.75	11.3	49.3	197.2	(4.0)	
C. macrocar												
80 C. rubra	32	50	12289			56.00	62.5	72.4	190.9	1145.4	(6.0)	
25 C. velutina	10	10	2476			17.5	12.5	14.4	44.4	88.8	(2.0)	
Tilia amer.												
Ulmus amer.												
U. fulva												
Totals		80										1484.4

16,979 sqm

Robacker  
Wagner

Simon  
Gate  
Lindsey



CI = 1484

1070 (Dane) <sup>Wingra</sup>

Sap.	12-19	20-28	29-38	39-50	51-63	64-78	79-95	96-113	114-132	133-153	154-176	177-201	202-254	255-314	315-380	381-452	453-570
Pop. trem.																	
Quercus ellip.																	
Q. macrocarp.																	
Q. velut.							1			1			1	4	2		9
Prun. serot.		1															
Querc. alba				1		4					2	1					1
Pop. grand.																	1
Carya ovata			1	1				1	1								4
Querc. rubra						1		1	5	2	6	2	4	5	5	4	3
Juglans nig.																	38
Frax. amer.																	
Acer rubrum																	
Tilia amer.																	
Jug. cinerea																	
Ulmus amer.																	
Celtis occ.																	
Ulm. rubra																	
Carya cord.																	
Ostrya virg.																	
Acer sacc.																	

60

	<sup>164</sup> Range	165 class RP	Q method
Av. dist.	23.8	22.3	18.5
Av. BA.	212.2	244.4	(238.2)
Trees/acre	(89)	87.6	127.3
Dom/acre	18,885	21,409	29,941
			(20,915)