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## **Site 1013: Calumet County, Township 18N, Range 19E, Section 35. 1948-07-15**

[s.l.]: [s.n.], 1948-07-15

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**1013**

*In-SE corner of township  
Not about where sec 35 would be  
Sectionalized*

Stand No: 113 Name:  
County: Calumet-Brotherton T: 18N R: 19E Sec: 35  
Date: July 15, 48 Observers: A & me  
Size of Stand: 10-15 acres.  
Forest Type: maple basswood.  
Topography: Low - Flat -

Locality: NW of Charles Burg  
Size of Area Sampled: 40 ft<sup>2</sup> - 20 m<sup>2</sup> quadrats  
Soil Type: Bellefontaine Celloan

Condition of Stand: Excellent - cutting years ago of oaks & Basswoods.

Open Grown Trees: One present white oak

Stumps: mostly rotten

- 1. Red oak - 80+
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_

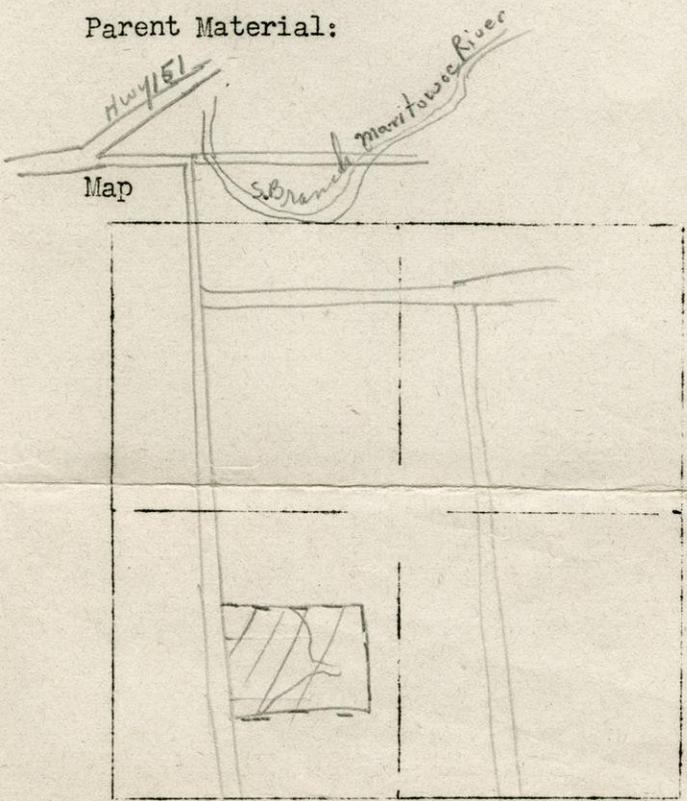
Soil

Sample No:	pH	N	P	K	Colloids	Vol/wt	WHC
A <sub>0</sub>	7.0	---	150	220	---	---	99.2
A <sub>1</sub>	6.8	---	90	160	---	---	95.3
A <sub>2</sub>	5.8	---	150	160	---	---	64.1

Depth 33" Characteristics (Color, texture, etc.)

- A<sub>0</sub> 5
- A<sub>1</sub> 6.5
- A<sub>2</sub> 2.5
- B 24

Parent Material:



Remarks: This woods is rather small & but was the only respectable maple stand located in this area. It is rather low and seems to be leached run off water from surrounding fields. result patches of impatiens  
 Much of the Basswood was stump sprout.

757.2

Tree	No.	No.	Size Class sq. in.			No.	W <sub>90</sub>	F.%	F.%	D.%	D <sub>0m</sub> %	D F D	Station No. 1013 ✓
	Pts.	Tr.	12-80	81-320	321+	Dom	Sap.	Seed	Seed	Tr.	Tr.	Trees	
Acerrubrum								8	40				Total Length of Transect 703.5'
A. saccharum	17	21	$\frac{4}{144}$	$\frac{17}{2760}$		290	4	8	40	25.4	26.25	35.0	1877 870
Carya cord.	1	1	$\frac{1}{22}$			22		1	5	1.5	1.25	.3	3.0 125
C. ovata													Ave. Dist. Btw'n Trees 17.6'
Fagus grand.	1	1		$\frac{1}{260}$		260				1.5	1.25	3.1	6.8 160
Fraxirus amer.	1	1	$\frac{1}{20}$			70				1.5	1.25	.8	3.5 19
F. pennsylvani.													Saplings/unit area 263 sq ft.
Juglans cinerea													Ave. BA (Total BA: 80) 103.8 sq in.
J. nigra													No. Trees/acre 162
Ostrya virgin.							5						Dom./acre 16,816 sq in.
Populus grand.													
P. tremuloides													
Prunus serotin	4	4	$\frac{4}{158}$			158		1	5	16.0	5.0	1.9	13.7 45
Quercus alba	1	1		$\frac{1}{540}$		540	1			1.5	1.25	6.5	9.2 36
Q. macrocarpa	1	1		$\frac{1}{200}$		200				1.5	1.25	2.4	5.2 5
Q. rubra	3	3	$\frac{2}{113}$			350				4.5	3.75	6.1	14.3 84
Q. velutina													
Tilia american.	15	16	$\frac{13}{446}$	$\frac{3}{575}$		1021				22.4	20.0	12.3	55.4 12
Ulmus american.	1	1	$\frac{1}{30}$			30				1.5	1.25	.4	3.1 12
U. fulva	20	28	$\frac{22}{241}$	$\frac{3}{595}$	$\frac{3}{1210}$	2546	1	2	10	29.8	35.0	30.7	19.5 166
Amelanchier								1	5				
Carpinus carolin.	2	2					1	2	10				
Crataegus	2	2	$\frac{2}{49}$			49		2	10	3.0	2.5	.6	6.1 18
Prunus virginiana								1	5				
Totals		80	$\frac{50}{1775}$	$\frac{25}{4390}$	$\frac{5}{2100}$	8305	12			14.3	✓	✓	✓

4351  
12  
30  
3  
104  
72  
30  
140  
137  
24  
95  
45  
1137

↑ 2 in.  
Shrub like  
8265

2251 ✓

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	150		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.	35		P. serotina					
						Distance:	24 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		
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:	50 60	
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:	19 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:	290	
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:	390	
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:	190	
						Distance:	14 ft	



1013

Tree	BA	S	Tree	BA	S	Tree	BA
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	200
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	22"		P. tremuloides			Tilia american	
C. ovata			Prunus americ.			Ulmus american	
Celtis occiden			P. pennsylvan.			U. fulva	
Crataegus sp.			P. serotina				

cabu

Distance:

21 ft

Acer negundo			Fagus grandif.			Prunus virgin.	
A. rubrum			Fraxinus amer.			Quercus alba	
A. saccharinum			F. nigra			Q. bicolor	
A. saccharum	50		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	40
C. ovata			Prunus americ.			Ulmus american	
Celtis occiden			P. pennsylvan.			U. fulva	
Crataegus sp.			P. serotina				

Distance:

21 ft

Acer negundo			Fagus grandif.			Prunus virgin.	
A. rubrum			Fraxinus amer.			Quercus alba	
A. saccharinum			F. nigra			Q. bicolor	
A. saccharum	120, 100		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:

17 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	95
C. ovata			Prunus americ.			Ulmus american	
Celtis occiden			P. pennsylvan.			U. fulva	
Crataegus sp.			P. serotina	60			

Distance:

13 ft

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		16
Crataegus sp.			P. serotina	35				
						Distance:	14 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		
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		45, 14
Crataegus sp.			P. serotina					
						Distance:	21 ft	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum	16 ft		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	28				
						Distance:	10 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	20	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva		30
Crataegus sp.			P. serotina					
						Distance:	7 ft	

Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fagus grandif.	260		Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum	300		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:	22	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.	70		Quercus alba		
A. saccharinum			F. nigra			Q. bicolor		
A. saccharum		1	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	95	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	26	1
Crataegus sp.			P. serotina					
						Distance:	12	
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.	75		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	35	
Crataegus sp.			P. serotina				10	
						Distance:	10	
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	12	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	30	
Crataegus sp.			P. serotina					
						Distance:	9.5	

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			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	20	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	65	
Crataegus sp.			P. serotina			Distance:	22	
-----								
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	55	
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	30	
Crataegus sp.			P. serotina			Distance:	18	
-----								
Acer negundo			Fagus grandif.			Prunus virgin.		
A. rubrum			Fraxinus amer.			Quercus alba	540	
A. saccharinum	1150		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:	15	
-----								
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	35	
C. ovata			Prunus americ.			Ulmus american		
Celtis occiden			P. pennsylvan.			U. fulva	70	
Crataegus sp.			P. serotina			Distance:	22	

*Pulmon*

# Field Notes

I Hardwood Survey

Presence & Station Record

Stand No.: 113

1013

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 Tree : BA : S : Tree : BA : S : Tree : BA : S  
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- Acer negundo
- A. rubrum
- A. saccharinum
- A. saccharum
- Amelanchier sp.
- Betula lutea
- B. nigra
- B. papyrifera
- Carpinus carol
- Carya 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: 10

- Actaea sp.
- Adiantum pedat.
- Agrimonia gryp.
- Allium tricocc.
- Amphicarpa brac.
- Anemone quinque.
- A. virginiana
- Anemonella 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.
- Gallium aparine
- G. circaezans
- G. concinnum
- G. lanceolatum
- G. triflorum
- Geranium macul.
- Gum 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

*Water*

*Freeman*

- |                     |                      |                      |
|---------------------|----------------------|----------------------|
| 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 pürgans      | 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 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:

*Circaea alpina*, Cary NL  
Calumet - Brotherton - 18N-19E (No) (35)?  
(see)

Small (10 acres)  
15

N W of Charlestown

Stumps - Red Oak - 80+

Filia mostly stumps present

Rather a low woods but indy. Maple wood located

A<sub>1</sub> 15

A<sub>1</sub> 65"

A<sub>2</sub> 25

B<sub>1</sub> 71

DPM - 33"







4

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 Tree : BA : S : Tree : BA : S : Tree : BA : S  
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Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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

514  
 116  
 9

Distance:

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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  
 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

W 04

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 Tree : BA : S : Tree : BA : S : Tree : BA : S  
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Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum 130  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya cordifor  
 C. ovata  
 Celtis occiden  
 Crataegus sp. 14

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: 12

Shrubs & Herbs

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella thal.  
 Antennaria sp.  
 Aplectrum hiem.  
 Apocynum andros.  
 Aquilegia canad.  
 Aralia nudicaul.  
 A. racemosa  
 Arenaria later.  
 Arisaema atrop.  
 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

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

Carex N.L.

W 05

6

Tree	: BA	: S	Tree	: BA	: S	Tree	: BA	: S
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Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum 50  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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 190  
 Ulmus american  
 U. fulva

Distance: 14

Shrubs & Herbs

Actaea sp. n.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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  
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 D. nudiflorum  
 Dicentra cucullaria  
 Dodecatheon meadia  
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 Erigeron pulchellus  
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 Eupatorium rugosum  
 Festuca obtusa  
 Fragaria virgin.  
 Galium aparine  
 G. circaeans  
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 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.  
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 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  
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 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

Carex N.L.

W05





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 Tree : BA : S : Tree : BA : S : Tree : BA : S  
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Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum 160 1  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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 60

Distance: 20

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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  
 Laportea canad.  
 Lapoula 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

Sedge N1.

N 65

10

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

Acer negundo  
A. rubrum  
A. saccharinum  
A. saccharum 130  
Amelanchier sp.  
Betula lutea  
B. nigra  
B. papyrifera  
Carpinus carol  
Carya 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 28  
Ulmus american  
U. fulva

Distance: 26

Actaea sp.  
Adiantum pedat.  
Agrimonia gryp.  
Allium tricocc.  
Amphicarpa brac.  
Anemone quinque.  
A. virginiana  
Anemonella 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  
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

Carex N1

W05

1013

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

Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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

30, 390

Distance:

16ft

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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 &amp; 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.  
 Lapoula 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

nos. 10 open from white oak  
 nearby



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 Tree : BA : S : Tree : BA : S : Tree : BA : S  
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13

Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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

70, 115  
14 ft

Distance:

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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  
 Laportea canad.  
 Lapoula 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

Carex h2 - ✓

Wos.



15

Tree	: BA	: S	Tree	: BA	: S	Tree	: BA	: S
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Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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 -12  
 Ulmus american  
 U. fulva -16

Distance: 10

Shrubs & Herbs

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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

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

Carey NL

105

16

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

Acer negundo  
 A. rubrum  
 A. saccharinum  
 A. saccharum  
 Amelanchier sp.  
 Betula lutea  
 B. nigra  
 B. papyrifera  
 Carpinus carol  
 Carya 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

390, 14

22 ft.

Distance:

Actaea sp.  
 Adiantum pedat.  
 Agrimonia gryp.  
 Allium tricocc.  
 Amphicarpa brac.  
 Anemone quinque.  
 A. virginiana  
 Anemonella 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.  
 Cyripedium 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.  
 Lapoula 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

WOS

17

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Tree : BA : S : Tree : BA : S : Tree : BA : S  
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Acer negundo  
A. rubrum  
A. saccharinum  
✓ A. saccharum — 170  
Amelanchier sp.  
Betula lutea  
B. nigra  
B. papyrifera  
✓ Carpinus carol  
Carya 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 — 22  
Ulmus american  
U. fulva

Distance: 18 ft

Shrubs & Herbs

Actaea sp.  
Adiantum pedat.  
Agrimonia gryp.  
Allium tricocc.  
Amphicarpa brac.  
Anemone quinque.  
A. virginiana  
Anemonella 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

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

Carex n. - ✓

1105





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 Tree : BA : S : Tree : BA : S : Tree : BA : S  
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- |                         |                |                |
|-------------------------|----------------|----------------|
| Acer negundo            | Fagus grandif. | Prunus virgin. |
| A. rubrum               | Fraxinus amer. | Quercus alba   |
| A. saccharinum          | F. nigra       | Q. bicolor     |
| A. saccharum — 130,85-1 | 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: 249

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      |
| Anemonella 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.       | 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           |

Carex - ✓

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