



# LIBRARIES

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## **Site 4011: Trempeleau Mountain, Buffalo County, Township 18N, Range 9W, Section 20. 1949-07-20**

[s.l.]: [s.n.], 1949-07-20

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## STAND RECORD

## FORESTS

Stand No. 4011

Same as 1114

Name: Trempealeau Mountain

Locality:

County: Buffalo

T: 18 N R: 9 W Sec: 20

Date: July 20, 1949

Observers: Anderson, Brown

Size of Stand:

Size of Area Sampled:

Forest Type: Lowland hardwoods

Soil Type:

Topography:

Slope:

Directions

low almost level slopes on north side

Condition of Stand:

Undisturbed -

{ Betula lutea  
 { Fraxinus nigra

Open Grown Trees:

% Canopy:

Stumps:

|    |    |    |     |
|----|----|----|-----|
| 1. | 4. | 7. | 10. |
| 2. | 5. | 8. | 11. |
| 3. | 6. | 9. | 12. |

Soil Data:

|                | pH | N | P | K | Ca | Mg | Org. Mat. | Colloids | W.H.C. |
|----------------|----|---|---|---|----|----|-----------|----------|--------|
| A <sub>0</sub> |    |   |   |   |    |    |           |          |        |
| A <sub>1</sub> |    |   |   |   |    |    |           |          |        |
| A <sub>2</sub> |    |   |   |   |    |    |           |          |        |
| B              |    |   |   |   |    |    |           |          |        |

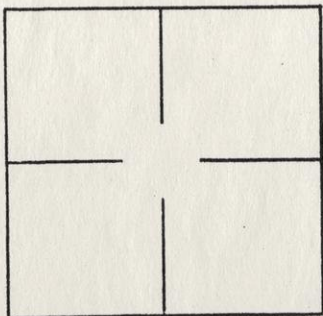
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |  |
|----------------|--|
| A <sub>0</sub> |  |
| A <sub>1</sub> |  |
| A <sub>2</sub> |  |
| B              |  |

Parent Material:

Map:





| STATION NO.               | 1   | 2   | 3   | 4   | 5      | 6   | 7   | 8   | 9   | 10 |
|---------------------------|-----|-----|-----|-----|--------|-----|-----|-----|-----|----|
| <i>Acer negundo</i>       |     |     |     |     |        |     |     |     |     |    |
| <i>A. saccharinum</i>     |     |     |     |     |        |     |     |     |     |    |
| <i>A. saccharum</i>       |     |     |     |     |        |     |     | 45  | 1   |    |
| <i>Betula nigra</i>       |     |     |     |     |        |     |     |     |     |    |
| <i>Carya cordiformis</i>  | 120 |     |     |     |        |     |     |     |     |    |
| <i>Celtis occident.</i>   |     |     |     |     |        |     |     |     |     |    |
| <i>Crataegus sp.</i>      |     |     |     |     |        |     |     |     |     |    |
| <i>Fraxinus americ.</i>   |     |     |     | 180 | 110    |     |     |     |     |    |
| <i>F. nigra</i>           |     |     |     |     |        |     |     |     |     |    |
| <i>F. pensylvanica</i>    |     |     |     |     | 18     | 30  | 14  | 180 |     |    |
| <i>Gleditsia triacan.</i> |     |     |     |     |        |     |     |     |     |    |
| <i>Gymnocladus dioica</i> |     | 150 |     | 1   |        |     |     |     | 100 | 14 |
| <i>Juglans cinerea</i>    |     |     |     |     |        |     |     |     |     |    |
| <i>Platanus occident.</i> |     |     |     |     |        |     |     |     |     |    |
| <i>Populus deltoides</i>  |     |     |     |     |        |     |     |     |     |    |
| <i>P. tremuloides</i>     |     |     |     |     |        |     |     |     |     |    |
| <i>Prunus serotina</i>    |     |     |     |     |        |     |     |     |     |    |
| <i>Quercus bicolor</i>    |     |     |     |     |        |     |     |     |     |    |
| <i>Q. rubra</i>           |     |     |     |     |        |     |     |     |     |    |
| <i>Robinia pseudo.</i>    |     |     |     |     |        |     |     |     |     |    |
| <i>Salix nigra</i>        |     |     |     |     |        |     |     |     |     |    |
| <i>Tilia americana</i>    | 38  |     | 110 | 25  |        |     |     |     | 80  |    |
| <i>Ulmus americana</i>    |     |     | 65  |     |        | 245 | 315 |     |     |    |
| <i>U. rubra</i>           |     | 165 |     |     |        |     |     |     |     |    |
| <i>Ostrya virgin.</i>     |     |     |     |     |        |     |     |     | 3   | 30 |
|                           |     |     |     |     |        |     |     |     |     |    |
|                           |     |     |     |     |        |     |     |     |     |    |
| Distance                  | 13  | 40  | 19  | 18  | 21 1/2 | 13  | 27  | 12  | 40  | 15 |



| STATION NO.        | 1   | 2   | 3   | 4   | 5  | 6   | 7   | 8   | 9   | 10  |
|--------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| Acer negundo       |     |     |     |     |    |     |     |     |     |     |
| A. saccharinum     |     |     |     |     |    |     |     |     | 42  |     |
| A. saccharum       |     |     |     |     | 38 |     |     |     |     |     |
| Betula nigra       |     |     |     |     |    |     |     |     |     |     |
| Carya cordiformis  |     |     |     | 125 |    |     |     |     | 80  |     |
| Celtis occident.   | 110 |     | 20  |     |    | 500 | 500 |     |     | 1   |
| Crataegus sp.      |     |     |     |     |    |     |     |     |     |     |
| Fraxinus americ.   |     |     |     |     | 1  | 205 | 205 | 22  |     |     |
| F. nigra           |     |     |     | 14  |    |     |     |     |     |     |
| F. pensylvanica    |     |     |     |     |    |     |     |     |     | 65  |
| Gleditsia triacan. |     |     |     |     |    |     |     |     |     |     |
| Gymnocladus dioica |     |     |     |     |    |     |     |     |     |     |
| Juglans cinerea    |     |     |     |     |    |     |     |     |     |     |
| Platanus occident. |     |     |     |     |    |     |     |     |     |     |
| Populus deltoides  |     |     |     |     |    |     |     |     |     |     |
| P. tremuloides     |     |     |     |     |    |     |     |     |     |     |
| Prunus serotina    |     |     |     |     |    |     |     |     |     |     |
| Quercus bicolor    |     |     |     |     |    |     |     |     |     |     |
| Q. rubra           |     |     |     |     |    |     |     |     |     |     |
| Robinia pseudo.    |     |     |     |     |    |     |     |     |     |     |
| Salix nigra        |     |     |     |     |    |     |     |     |     |     |
| Tilia americana    | 130 | 100 | 60  | 100 |    | 70  |     |     |     |     |
| Ulmus americana    |     |     |     |     |    |     |     | 120 |     | 880 |
| U. rubra           |     |     |     |     |    |     |     |     |     |     |
| Betula lutea       |     | 165 |     |     |    | 48  |     |     |     |     |
| Ostrya virgin.     |     |     |     |     |    | 1   |     |     |     |     |
| Distance           | 14  | 13½ | 27½ | 25  | 16 | 21  | 24  | 12½ | 19½ | 19  |



| STATION NO.        | 1      | 2   | 3  | 4   | 5   | 6   | 7   | 8         | 9   | 10    |
|--------------------|--------|-----|----|-----|-----|-----|-----|-----------|-----|-------|
| Acer negundo       |        |     |    |     |     |     |     |           |     |       |
| A. saccharinum     |        |     |    |     |     |     |     |           |     |       |
| A. saccharum       |        |     |    |     |     |     |     |           |     |       |
| Betula nigra       |        |     |    |     |     |     |     |           |     |       |
| Carya cordiformis  |        |     |    |     |     |     |     |           |     |       |
| Celtis occident.   |        |     |    |     |     |     |     |           |     |       |
| Crataegus sp.      |        |     |    |     |     |     |     |           |     |       |
| Fraxinus americ.   |        |     |    |     |     |     |     |           |     |       |
| F. nigra           |        |     |    |     |     |     |     | 35<br>180 | 225 | 225   |
| F. pensylvanica    |        |     |    |     | 60  | 210 | 100 |           |     |       |
| Gleditsia triacan. |        |     |    |     |     |     |     |           |     |       |
| Gymnocladus dioica |        | 90  |    |     |     |     |     |           |     |       |
| Juglans cinerea    |        |     |    |     |     |     |     |           | 115 |       |
| Platanus occident. |        |     |    |     |     |     |     |           |     |       |
| Populus deltoides  |        |     |    |     |     |     |     |           |     |       |
| P. tremuloides     |        |     |    |     |     |     |     |           |     |       |
| Prunus serotina    |        |     |    |     |     |     |     |           |     |       |
| Quercus bicolor    |        |     |    |     |     |     |     |           |     |       |
| Q. rubra           |        |     |    |     |     |     |     |           |     |       |
| Robinia pseudo.    |        |     |    |     |     |     |     |           |     |       |
| Salix nigra        |        |     |    |     |     |     |     |           |     |       |
| Tilia americana    | 140    |     | 23 | 55  | 145 | 95  | 105 |           |     | 70    |
| Ulmus americana    |        | 150 |    | 130 |     |     |     |           |     |       |
| U. rubra           | 145    |     | 80 |     |     |     |     |           |     |       |
| Prunus virginiana  |        |     |    |     |     |     |     |           |     |       |
|                    |        |     |    |     |     |     |     |           |     |       |
|                    |        |     |    |     |     |     |     |           |     |       |
| Distance           | 12 1/2 | 23  | 20 | 16  | 18  | 42  | 40  | 13        | 32  | 9 1/2 |



| STATION NO.               | 1   | 2   | 3  | 4  | 5   | 6  | 7   | 8         | 9      | 10        |
|---------------------------|-----|-----|----|----|-----|----|-----|-----------|--------|-----------|
| <i>Acer negundo</i>       |     |     |    |    |     |    |     |           |        |           |
| <i>A. saccharinum</i>     |     |     |    |    |     |    |     |           |        |           |
| <i>A. saccharum</i>       | 1   |     |    |    |     |    | 12  | 110<br>25 |        | 185<br>40 |
| <i>Betula nigra</i>       |     |     |    |    |     |    |     |           |        |           |
| <i>Carya cordiformis</i>  |     | 24  |    |    |     |    |     |           |        |           |
| <i>Celtis occident.</i>   |     |     |    |    | 1   |    |     |           |        |           |
| <i>Crataegus sp.</i>      |     |     |    |    |     |    |     |           |        |           |
| <i>Fraxinus americ.</i>   |     |     |    |    |     |    |     |           |        |           |
| <i>F. nigra</i>           | 40  | 120 | 16 | 30 |     |    | 225 |           |        |           |
| <i>F. pensylvanica</i>    |     |     |    |    |     |    |     |           |        |           |
| <i>Gleditsia triacan.</i> |     |     |    |    |     |    |     |           |        |           |
| <i>Gymnocladus dioica</i> |     |     |    |    |     |    |     |           |        |           |
| <i>Juglans cinerea</i>    |     |     |    |    |     | 25 |     |           |        |           |
| <i>Platanus occident.</i> |     |     |    |    |     |    |     |           |        |           |
| <i>Populus deltoides</i>  |     |     |    |    |     |    |     |           |        |           |
| <i>P. tremuloides</i>     |     |     |    |    |     |    |     |           |        |           |
| <i>Prunus serotina</i>    |     |     |    |    |     |    |     |           |        |           |
| <i>Quercus bicolor</i>    |     |     |    |    |     |    |     |           |        |           |
| <i>Q. rubra</i>           |     |     |    |    |     |    |     |           |        |           |
| <i>Robinia pseudo.</i>    |     |     |    |    |     |    |     |           |        |           |
| <i>Salix nigra</i>        |     |     |    |    |     |    |     |           |        |           |
| <i>Tilia americana</i>    | 340 |     | 70 | 65 | 28  | 25 |     |           | 35     |           |
| <i>Ulmus americana</i>    |     |     |    |    |     |    |     |           |        |           |
| <i>U. rubra</i>           |     |     |    |    | 760 |    |     |           | 225    |           |
|                           |     |     |    |    |     |    |     |           |        |           |
|                           |     |     |    |    |     |    |     |           |        |           |
|                           |     |     |    |    |     |    |     |           |        |           |
| Distance                  | 14  | 26  | 34 | 14 | 34  | 24 | 17  | 19        | 21 1/2 | 26 1/2    |



| Tree            | BA | S | Tree           | BA | S | Tree            | BA | S     |
|-----------------|----|---|----------------|----|---|-----------------|----|-------|
| Acer negundo    |    |   | Fagus grandif. |    |   | Prunus virgin.  |    |       |
| A. rubrum       |    |   | Fraxinus amer. |    |   | Quercus alba    |    |       |
| A. saccharinum  |    |   | F. nigra       |    |   | 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    |    |   | Ky coffee — 150 |    |       |
|                 |    |   |                |    |   | Distance:       |    | 165   |
| 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    |    |   | Fraxinus sp 180 |    |       |
|                 |    |   |                |    |   | Distance:       |    | 180   |
| 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:       |    | 245   |
| 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:       |    | 13 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:       |    | 12 ft |

4001

4011

40 ft

Ky coffee — 1

— 25 ft

Fraxinus sp 180 18 ft

30"

— 245

13 ft

180

45



## III Hardwood Survey

## Station Record-Trees

Stand No.

20015  
4001

| 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.  | -30' |   | Q. velutina        |    |           |
| B. papyrifera   |    |     | Populus deltoei |      |   | Robinia pseudo     |    |           |
| Carpinus carol. |    |     | P. grandident.  |      |   | Sorbus americ.     |    |           |
| Carya cordifor  |    |     | P. tremuloides  |      |   | Tilia american     |    |           |
| C. ovata        |    |     | Prunus americ.  |      |   | Ulmus american     |    |           |
| Celtis occiden  |    |     | P. pennsylvan.  |      |   | U. fulva           |    |           |
| Crataegus sp.   |    |     | P. serotina     |      |   | K. corymbosa - 14" |    |           |
|                 |    |     |                 |      |   | Distance:          |    | 15ft      |
| 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    |    | 165 | J. nigra        |      |   | Q. rubra           |    |           |
| B. nigra        |    |     | Ostrya virgin.  |      |   | Q. velutina        |    |           |
| B. papyrifera   |    |     | Populus deltoei |      |   | Robinia pseudo     |    |           |
| Carpinus carol  |    |     | P. grandident.  |      |   | Sorbus americ.     |    |           |
| Carya cordifor  |    |     | P. tremuloides  |      |   | Tilia american     |    | 100       |
| C. ovata        |    |     | Prunus americ.  |      |   | Ulmus american     |    |           |
| Celtis occiden  |    |     | P. pennsylvan.  |      |   | U. fulva           |    |           |
| Crataegus sp.   |    |     | P. serotina     |      |   | Distance:          |    | 13 1/2 ft |
| Acer negundo    |    |     | Fagus grandif.  |      |   | Prunus virgin.     |    |           |
| A. rubrum       |    |     | 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 deltoei |      |   | Robinia pseudo     |    |           |
| Carpinus carol  |    |     | P. grandident.  |      |   | Sorbus americ.     |    |           |
| Carya cordifor  |    | 125 | P. tremuloides  |      |   | Tilia american     |    | 100       |
| C. ovata        |    |     | Prunus americ.  |      |   | Ulmus american     |    |           |
| Celtis occiden  |    |     | P. pennsylvan.  |      |   | U. fulva           |    |           |
| Crataegus sp.   |    |     | P. serotina     |      |   | Distance:          |    | 25ft      |
| 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    |    | 148 | J. nigra        |      |   | Q. rubra           |    |           |
| B. nigra        |    |     | Ostrya virgin.  |      |   | Q. velutina        |    |           |
| B. papyrifera   |    |     | Populus deltoei |      |   | Robinia pseudo     |    |           |
| Carpinus carol  |    |     | P. grandident.  |      |   | Sorbus americ.     |    |           |
| Carya cordifor  |    |     | P. tremuloides  |      |   | Tilia american     |    | 70"       |
| C. ovata        |    |     | Prunus americ.  |      |   | Ulmus american     |    |           |
| Celtis occiden  |    |     | P. pennsylvan.  |      |   | U. fulva           |    |           |
| Crataegus sp.   |    |     | P. serotina     |      |   | Distance:          |    | 21ft      |



| Tree            | BA | S | Tree           | BA | S | Tree           | BA | S       |
|-----------------|----|---|----------------|----|---|----------------|----|---------|
| Acer negundo    |    |   | Fagus grandif. |    |   | Prunus virgin. |    |         |
| A. rubrum       |    |   | Fraxinus amer. | 22 |   | Quercus alba   |    |         |
| A. saccharinum  |    |   | F. nigra       |    |   | Q. bicolor     |    |         |
| A. saccharum    |    |   | F. pennsylvan. |    |   | Q. ellipsoid.  |    | 4001    |
| 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 |    | 126     |
| Celtis occiden  |    |   | P. pennsylvan. |    |   | U. fulva       |    |         |
| Crataegus sp.   |    |   | P. serotina    |    |   |                |    |         |
|                 |    |   |                |    |   | Distance:      |    | 12.5 ft |
| Acer negundo    |    |   | Fagus grandif. |    |   | Prunus virgin. |    |         |
| A. rubrum       |    |   | Fraxinus amer. |    |   | Quercus alba   |    |         |
| A. saccharinum  |    |   | F. nigra       |    |   | Q. bicolor     |    |         |
| A. saccharum    |    |   | F. pennsylvan. | 65 |   | 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 |    | 880"    |
| 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 |    | 150"    |
| Celtis occiden  |    |   | P. pennsylvan. |    |   | U. fulva       |    |         |
| Crataegus sp.   |    |   | P. serotina    |    |   |                |    |         |
|                 |    |   |                |    |   | Distance:      |    | 90      |
| 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 |    | 55"     |
| Celtis occiden  |    |   | P. pennsylvan. |    |   | U. fulva       |    | 130"    |
| Crataegus sp.   |    |   | P. serotina    |    |   |                |    |         |
|                 |    |   |                |    |   | Distance:      |    | 23 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:      |    | 16 ft   |



## III Hardwood Survey

## Station Record-Trees

Stand No.

4001

4001

4001

| 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. — 210 |    |     | 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          |    |     |                     |    |          |
|                     |    |   |                      |    |     | Distance:           |    | 42 ft    |
| Acer negundo        |    |   | Fagus grandif.       |    |     | Prunus virgin.      |    |          |
| A. rubrum           |    |   | Fraxinus amer.       |    |     | Quercus alba        |    |          |
| A. saccharinum      |    |   | F. nigra — 35        |    | 180 | 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 — 1        |    | 13 ft    |
| Crataegus sp.       |    |   | P. serotina          |    |     |                     |    |          |
|                     |    |   |                      |    |     | Distance:           |    |          |
| Acer negundo        |    |   | Fagus grandif.       |    |     | Prunus virgin.      |    |          |
| A. rubrum           |    |   | Fraxinus amer.       |    |     | Quercus alba        |    |          |
| A. saccharinum      |    |   | F. nigra — 225       |    |     | Q. bicolor          |    |          |
| A. saccharum        |    |   | F. pennsylvan.       |    |     | Q. ellipsoid.       |    |          |
| Amelanchier sp.     |    |   | Juglans cinere       |    |     | Q. macrocarpa       |    |          |
| Betula lutea        |    |   | J. nigra             |    |     | Q. rubra            |    |          |
| B. nigra            |    |   | Ostrya virgin.       |    |     | Q. velutina         |    |          |
| B. papyrifera       |    |   | Populus deltoi       |    |     | Robinia pseudo      |    |          |
| Carpinus carol      |    |   | P. grandident.       |    |     | Sorbus americ.      |    |          |
| Carya cordifor      |    |   | P. tremuloides       |    |     | Tilia american — 70 |    |          |
| C. ovata            |    |   | Prunus americ.       |    |     | Ulmus american      |    |          |
| Celtis occiden      |    |   | P. pennsylvan.       |    |     | U. fulva            |    |          |
| Crataegus sp.       |    |   | P. serotina          |    |     |                     |    |          |
|                     |    |   |                      |    |     | Distance:           |    | 9 1/2 ft |
| Acer negundo        |    |   | Fagus grandif.       |    |     | Prunus virgin.      |    |          |
| A. rubrum           |    |   | Fraxinus amer.       |    |     | Quercus alba        |    |          |
| A. saccharinum      |    |   | F. nigra — 120       |    |     | 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 — 24 |    |   | P. tremuloides       |    |     | Tilia american      |    |          |
| C. ovata            |    |   | Prunus americ.       |    |     | Ulmus american      |    |          |
| Celtis occiden      |    |   | P. pennsylvan.       |    |     | U. fulva            |    |          |
| Crataegus sp.       |    |   | P. serotina          |    |     |                     |    |          |
|                     |    |   |                      |    |     | Distance:           |    | 26 ft    |



## III Hardwood Survey

## Station Record-Trees

Stand No.

40015

| Tree            | BA | S       | Tree           | BA | S  | Tree           | BA | S       |
|-----------------|----|---------|----------------|----|----|----------------|----|---------|
| Acer negundo    |    |         | Fagus grandif. |    |    | Prunus virgin. |    |         |
| A. rubrum       |    |         | Fraxinus amer. |    |    | Quercus alba   |    |         |
| A. saccharinum  |    |         | F. nigra       |    | 30 | 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 delto  |    |    | Robinia pseudo |    |         |
| Carpinus carol. |    |         | P. grandident. |    |    | Sorbus americ. |    | 65      |
| Carya cordifor  |    |         | P. tremuloides |    |    | Tilia american |    |         |
| C. ovata        |    |         | Prunus americ. |    |    | Ulmus american |    |         |
| Celtis occiden  |    |         | P. pennsylvan. |    |    | U. fulva       |    |         |
| Crataegus sp.   |    |         | P. serotina    |    |    |                |    |         |
|                 |    |         |                |    |    | 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. |    | 25 | 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. |    | 25      |
| Carya cordifor  |    |         | P. tremuloides |    |    | Tilia american |    |         |
| C. ovata        |    |         | Prunus americ. |    |    | Ulmus american |    |         |
| Celtis occiden  |    |         | P. pennsylvan. |    |    | U. fulva       |    |         |
| Crataegus sp.   |    |         | 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    |    | 110, 25 | 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    |    | 185, 40 | 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:      |    | 26.5 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 deltoii |      |     | Robinia pseudo      |      |     |
| Carpinus carol         |      |     | P. grandident.  |      |     | Sorbus americ.      |      |     |
| ✓ Carya cordifor - 120 |      |     | P. tremuloides  |      |     | Tilia american - 38 |      |     |
| C. ovata               |      |     | Prunus americ.  |      |     | Ulmus american      |      |     |
| Celtis occiden         |      |     | P. pennsylvan.  |      |     | U. fulva            |      |     |
| Crataegus sp.          |      |     | P. serotina     |      |     |                     |      |     |

Distance:

13 ft

## Shrubs &amp; 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 atrov.    | Hepatica acutil.     | Rubus alleghen.          |
| Asarum canad.        | Heuchera richard.    | R. occidentalis          |
| Aster macrophyll.    | Hydrastis canad.     | R. strigosus             |
| A. sagittifolius     | Hydrophyllum virg.   | Sambucus canad.          |
| A. shortii           | Hystrix patula       | Sanguinaria can.         |
| Athyrium angust.     | Impatiens biflora    | Sanicula gregaria        |
| Aureolaria grandif.  | I. pallida           | S. marilandica           |
| Botrychium vir.      | Isopyrum bitern.     | Smilacina racemosa       |
| Brachyelytrum        | Lactuca spicata      | S. stellata              |
| Campanula amer.      | Laportea canad.      | Smilax ecirrhata         |
| Carex albursina      | Lapula 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       | ✓ Trivularia 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              |

Stapfen



| Tree            | BA | S | Tree            | BA | S | Tree           | BA | S |
|-----------------|----|---|-----------------|----|---|----------------|----|---|
| Acer negundo    |    |   | Fagus grandif.  |    |   | Prunus virgin. |    |   |
| A. rubrum       |    |   | Fraxinus amer.  |    |   | Quercus alba   |    |   |
| A. saccharinum  |    |   | F. nigra        |    |   | Q. bicolor     |    |   |
| A. saccharum    |    |   | F. pennsylvan.  |    |   | Q. ellipsoid.  |    |   |
| Amelanchier sp. |    |   | Juglans cinere  |    |   | Q. macrocarpa  |    |   |
| Betula lutea    |    |   | J. nigra        |    |   | Q. rubra       |    |   |
| B. nigra        |    |   | Ostrya virgin.  |    |   | Q. velutina    |    |   |
| B. papyrifera   |    |   | Populus deltoii |    |   | Robinia pseudo |    |   |
| 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:

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.     | Gallium 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      | Lapula virgin.        | S. herbacea           |
| C. pennsylvan.       | Lathyrus ochrol.      | S. hispida            |
| Caulophyllum thal.   | Lonicera proclif.     | Solidago altissima    |
| Celastrus scan.      | Lysimachia quadr.     | S. latifolia          |
| Circaea latif.       | Maianthemum can.      | S. ulmifolia          |
| Claytonia virg.      | Menispermum can.      | Thalictrum dioicum    |
| Cornus altern.       | Mitella diphylla      | Trillium cernuum      |
| C. femina            | Monarda fistulosa     | T. flexipes           |
| C. rugosa            | Orchis spectab.       | T. grandiflorum       |
| Corylus americana    | 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           |

4011

110'  
65'  
19H



| Tree            | : BA | : S | Tree               | : BA | : S | Tree           | : BA | : S |
|-----------------|------|-----|--------------------|------|-----|----------------|------|-----|
| Acer negundo    |      |     | Fagus grandif.     |      |     | Prunus virgin. |      |     |
| A. rubrum       |      |     | Fraxinus amer.—110 |      |     | Quercus alba   |      |     |
| A. saccharinum  |      |     | F. nigra           |      |     | Q. bicolor     |      |     |
| A. saccharum    |      |     | F. pennsylvan.—18" |      |     | 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:

## Shrubs &amp; 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 atrov.    | Hepatica acutil.     | Rubus alleghen.       |
| Asarum canad.        | Heuchera richard.    | R. occidentalis       |
| Aster macrophyll.    | Hydrastis canad.     | R. strigosus          |
| A. sagittifolius     | Hydrophyllum virg.   | Sambucus canad.       |
| A. shortii           | Hystrix patula       | Sanguinaria can.      |
| ✓ Athyrium angust.   | ✓ Impatiens biflora  | Sanicula gregaria     |
| Aureolaria grandif.  | I. pallida           | S. marilandica        |
| Botrychium vir.      | Isopyrum bitern.     | ✓ Smilacina racemosa  |
| Brachyelytrum        | Lactuca spicata      | S. stellata           |
| Campanula amer.      | Laportea canad.      | Smilax ecirrhata      |
| Carex albursina      | Lapoula virgin.      | S. herbacea           |
| C. pennsylvan.       | Lathyrus ochrol.     | S. hispida            |
| Caulophyllum thal.   | Lonicera prolif.     | Solidago altissima    |
| Celastrus scan.      | Lysimachia quadr.    | S. latifolia          |
| Circaea latif.       | Maianthemum can.     | S. ulmifolia          |
| Claytonia virg.      | Menispermum can.     | Thalictrum dioicum    |
| Cornus altern.       | Mitella diphylla     | Trillium cernuum      |
| C. femina            | Monarda fistulosa    | T. flexipes           |
| C. rugosa            | Orchis spectab.      | T. grandiflorum       |
| Corylus americana    | Oryzopsis racem.     | T. recurvatum         |
| Cryptotaenia canad.  | Osmorhiza clayton.   | Triosteum perfoliatum |
| Cypripedium pubesc.  | O. longistylis       | Uvularia grandiflora  |
| Cystopteris frag.    | Osmunda clayton.     | Veronicastrum virg.   |
| Dentaria laciniata   | Panax quinquef.      | Viburnum acerifolium  |
| Desmodium acumin.    | Panicum latifolium   | V. affine             |
| D. nudiflorum        | Parietaria pennsylv. | Viola cucullata       |
| Dicentra cucullaria  | Parthenocissus vit.  | V. pubescens          |
| Dodecatheon meadia   | Phlox divaricata     | Vitis aestivalis      |
| Dryopteris spinulosa | Phryma leptostachya  | V. riparia            |
| Erigeron pulchellus  | Podophyllum pelt.    | Zanthoxylum americ.   |
| Erythronium albidum  | Polemonium reptans   | Zizia aurea           |



| 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. | 14 |   | 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 | 315 |   |
| C. ovata        |    |   | Prunus americ. |    |   | Ulmus american |     |   |
| Celtis occiden  |    |   | P. pennsylvan. |    |   | U. fulva       |     |   |
| Crataegus sp.   |    |   | P. serotina    |    |   |                |     |   |

4001

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. circaeans  
G. concinnum  
G. lanceolatum  
G. triflorum  
Geranium macul.  
Geum canadense  
Goodyera pubesc.  
Habenaria bract.  
Hamamelis virg.  
Helianthus strum.  
Hepatica acutil.  
Heuchera richard.  
Hydrastis canad.  
Hydrophyllum virg.  
Hystrix patula  
Impatiens biflora  
I. pallida  
Isopyrum bitern.  
Lactuca spicata  
Laportea canad.  
Lappula virgin.  
Lathyrus ochrol.  
Lonicera 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

✓ Ostrya virginica  
✓ Cystopteris bulbifera



| Tree            | : BA | : S | Tree            | : BA | : S | Tree           | : BA | : S |
|-----------------|------|-----|-----------------|------|-----|----------------|------|-----|
| Acer negundo    |      |     | Fagus grandif.  |      |     | Prunus virgin. |      |     |
| A. rubrum       |      |     | Fraxinus amer.  |      |     | Quercus alba   |      |     |
| A. saccharinum  |      |     | F. nigra        |      |     | Q. bicolor     |      |     |
| A. saccharum    |      |     | F. pennsylvan.  |      |     | Q. ellipsoid.  |      |     |
| Amelanchier sp. |      |     | Juglans cinere  |      |     | Q. macrocarpa  |      |     |
| Betula lutea    |      |     | J. nigra        |      |     | Q. rubra       |      |     |
| B. nigra        |      |     | Ostrya virgin.  |      |     | Q. velutina    |      |     |
| B. papyrifera   |      |     | Populus deltoii |      |     | Robinia pseudo |      |     |
| 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:      |      |     |

4001

4011

40 ft

|                      |                           |                       |
|----------------------|---------------------------|-----------------------|
| 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. circaeazans            | 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 atror.    | 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.     | Hystrix patula            | Sanicula gregaria     |
| Aureolaria grandif.  | Impatiens biflora         | S. marilandica        |
| Botrychium vir.      | I. pallida                | Smilacina racemosa    |
| Brachyelytrum        | Isopyrum bitern.          | S. stellata           |
| Campanula amer.      | Lactuca spicata           | Smilax ecirrhata      |
| Carex albursina      | Laportea canad.           | S. herbacea           |
| C. pennsylvan.       | Lapoula virgin.           | S. hispida            |
| Caulophyllum thal.   | Lathyrus ochrol.          | Solidago altissima    |
| Celastrus scan.      | Lonicera prolif.          | S. latifolia          |
| Circaea latif.       | Lysimachia quadr.         | S. ulmifolia          |
| Claytonia virg.      | Maianthemum can.          | Thalictrum dioicum    |
| Cornus altern.       | Menispermum can.          | Trillium cernuum      |
| C. femina            | Mitella diphylla          | T. flexipes           |
| C. rugosa            | Monarda fistulosa         | T. grandiflorum       |
| Corylus americana    | Orchis spectab.           | T. recurvatum         |
| Cryptotaenia canad.  | Oryzopsis racem.          | Triosteum perfoliatum |
| Cypripedium pubesc.  | Osmorhiza clayton.        | Uvularia grandiflora  |
| Cystopteris frag.    | O. longistylis            | Veronicastrum virg.   |
| Dentaria laciniata   | Osmunda clayton.          | Viburnum acerifolium  |
| Desmodium acumin.    | Panax quinquef.           | V. affine             |
| D. nudiflorum        | Panicum latifolium        | Viola cucullata       |
| Dicentra cucullaria  | Parietaria pennsylv.      | V. pubescens          |
| Dodecatheon meadia   | ✓ Parthenocissus vit.     | Vitis aestivalis      |
| Dryopteris spinulosa | Phlox divaricata          | V. riparia            |
| Erigeron pulchellus  | ✓ Phryma leptostachya     | Zanthoxylum americ.   |
| Erythronium albidum  | Podophyllum pelt.         | Zizia aurea           |
|                      | Polemonium reptans        |                       |



| 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  | 110 |   | P. pennsylvan. |    |   | U. fulva       |    |   |
| Crataegus sp.   |     |   | P. serotina    |    |   |                |    |   |

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## 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 &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.  
 Lappula virgin.  
 Lathyrus ochrol.  
 Lonicera proclif.  
 Lysimachia quadr.  
 Maianthemum can.  
 Menispermum can.  
 Mitella diphylla  
 Monarda fistulosa  
 Orchis spectab.  
 Oryzopsis racem.  
 Osmorhiza clayton.  
 O. longistylis  
 Osmunda clayton.  
 Panax quinquef.  
 Panicum latifolium  
 Parietaria pennsylv.  
 Parthenocissus vit.  
 Phlox divaricata  
 Phryma leptostachya  
 Podophyllum pelt.  
 Polemonium reptans

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

V. pteris



| 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 | 60 |   |
| ✓ C. ovata       |    |   | Prunus americ. |    |   | Ulmus american |    |   |
| Celtis occiden   | 20 |   | P. pennsylvan. |    |   | U. fulva       |    |   |
| Crataegus sp.    |    |   | P. serotina    |    |   |                |    |   |

Distance:

27.5 ft

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 atrov.  
 Asarum canad.  
 Aster macrophyll.  
 A. sagittifolius  
 A. shortii  
 Athyrium angust.  
 Aureolaria grandif.  
 Botrychium vir.  
 Brachyelytrum  
 Campanula amer.  
 Carex albursina  
 C. pennsylvan.  
 Caulophyllum thal.  
 Celastrus scan.  
 ✓ Circaea latif.  
 Claytonia virg.  
 Cornus altern.  
 C. femina  
 C. rugosa  
 Corylus americana  
 Cryptotaenia canad.  
 Cypripedium pubesc.  
 Cystopteris frag.  
 Dentaria laciniata  
 Desmodium acumin.  
 D. nudiflorum  
 Dicentra cucullaria  
 Dodecatheon meadia  
 Dryopteris spinulosa  
 Erigeron pulchellus  
 Erythronium albidum

## Shrubs &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  
 Veronicastrum virg.  
 Viburnum acerifolium  
 V. affine  
 Viola cucullata  
 V. pubescens  
 Vitis aestivalis  
 V. riparia  
 Zanthoxylum americ.  
 Zizia aurea



| Tree                 | BA | S | Tree           | BA | S | Tree           | BA | S |
|----------------------|----|---|----------------|----|---|----------------|----|---|
| Acer negundo         |    |   | Fagus grandif. |    |   | Prunus virgin. |    |   |
| A. rubrum            |    |   | Fraxinus amer. |    |   | Quercus alba   |    |   |
| A. saccharinum - 38" |    |   | F. nigra - 14  |    |   | 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: 16 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 atrov.  
Asarum canad.  
Aster macrophyll.  
A. sagittifolius  
A. shortii  
Athyrium angust.  
Aureolaria grandif.  
Botrychium vir.  
Brachyelytrum  
Campanula amer.  
Carex albursina  
C. pennsylvan.  
Caulophyllum thal.  
Celastrus scan.  
Circaea latif.  
Claytonia virg.  
Cornus altern.  
C. femina  
C. rugosa  
Corylus americana  
Cryptotaenia canad.  
Cypripedium pubesc.  
Cystopteris frag.  
Dentaria laciniata  
Desmodium acumin.  
D. nudiflorum  
Dicentra cucullaria  
Dodecatheon meadia  
Dryopteris spinulosa  
Erigeron pulchellus  
Erythronium albidum

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

*Cyperus pycnanthus*



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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 — 500  
 Crataegus sp.

Fagus grandif.  
 Fraxinus amer. — 205  
 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: 24 ft

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



| Tree            | BA | S | Tree           | BA | S | Tree           | BA | S |
|-----------------|----|---|----------------|----|---|----------------|----|---|
| Acer negundo    |    |   | Fagus grandif. |    |   | Prunus virgin. |    |   |
| A. rubrum       |    |   | Fraxinus amer. |    |   | Quercus alba   |    |   |
| A. saccharinum  | 42 |   | 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  | 80 |   | P. tremuloides |    |   | Tilia american |    |   |
| C. ovata        |    |   | Prunus americ. |    |   | Ulmus american |    |   |
| Celtis occiden  |    |   | P. pennsylvan. |    |   | U. fulva       |    |   |
| Crataegus sp.   |    |   | P. serotina    |    |   |                |    |   |

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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 &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 proclif.  
 Lysimachia quadr.  
 Maianthemum can.  
 Menispermum can.  
 Mitella diphylla  
 Monarda fistulosa  
 Orchis spectab.  
 Oryzopsis racem.  
 Osmorhiza clayton.  
 O. longistylis  
 Osmunda clayton.  
 Panax quinquef.  
 Panicum latifolium  
 Parietaria pennsylv.  
 ✓ Parthenocissus vit.  
 Phlox divaricata  
 Phryma leptostachya  
 Podophyllum pelt.  
 Polemonium reptans

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

✓ Stereiles  
 ✓ stylifera



| Tree            | BA | S | Tree            | BA | S | Tree                 | BA | S |
|-----------------|----|---|-----------------|----|---|----------------------|----|---|
| Acer negundo    |    |   | Fagus grandif.  |    |   | Prunus virgin.       |    |   |
| A. rubrum       |    |   | Fraxinus amer.  |    |   | Quercus alba         |    |   |
| A. saccharinum  |    |   | F. nigra        |    |   | Q. bicolor           |    |   |
| A. saccharum    |    |   | F. pennsylvan.  |    |   | Q. ellipsoid.        |    |   |
| Amelanchier sp. |    |   | Juglans cinere  |    |   | Q. macrocarpa        |    |   |
| Betula lutea    |    |   | J. nigra        |    |   | Q. rubra             |    |   |
| B. nigra        |    |   | Ostrya virgin.  |    |   | Q. velutina          |    |   |
| B. papyrifera   |    |   | Populus deltoii |    |   | Robinia pseudo       |    |   |
| Carpinus carol  |    |   | P. grandident.  |    |   | Sorbus americ.       |    |   |
| Carya cordifor  |    |   | P. tremuloides  |    |   | Tilia american — 140 |    |   |
| C. ovata        |    |   | Prunus americ.  |    |   | Ulmus american       |    |   |
| Celtis occiden  |    |   | P. pennsylvan.  |    |   | U. fulva — 145"      |    |   |
| Crataegus sp.   |    |   | P. serotina     |    |   |                      |    |   |

Distance:

12.5 ft

## Shrubs &amp; 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 atrov.      | Hepatica acutil.      | Rubus alleghen.       |
| Asarum canad.        | Heuchera richard.     | R. occidentalis       |
| Aster macrophyll.    | Hydrastis canad.      | R. strigosus          |
| A. sagittifolius     | Hydrophyllum virg.    | Sambucus canad.       |
| A. shortii           | Hystrix patula        | Sanguinaria can.      |
| Athyrium angust.     | ✓ Impatiens biflora   | Sanicula gregaria     |
| Aureolaria grandif.  | I. pallida            | S. marilandica        |
| Botrychium vir.      | Isopyrum bitern.      | Smilacina racemosa    |
| Brachyelytrum        | Lactuca spicata       | S. stellata           |
| Campanula amer.      | Laportea canad.       | Smilax ecirrhata      |
| Carex albursina      | Lapula 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           |

✓ p. betula  
✓ S. styphelia



| Tree            | BA | S | Tree            | BA | S | Tree           | BA | S |
|-----------------|----|---|-----------------|----|---|----------------|----|---|
| Acer negundo    |    |   | Fagus grandif.  |    |   | Prunus virgin. |    |   |
| A. rubrum       |    |   | Fraxinus amer.  |    |   | Quercus alba   |    |   |
| A. saccharinum  |    |   | F. nigra        |    |   | Q. bicolor     |    |   |
| A. saccharum    |    |   | F. pennsylvan.  |    |   | Q. ellipsoid.  |    |   |
| Amelanchier sp. |    |   | Juglans cinere  |    |   | Q. macrocarpa  |    |   |
| Betula lutea    |    |   | J. nigra        |    |   | Q. rubra       |    |   |
| B. nigra        |    |   | Ostrya virgin.  |    |   | Q. velutina    |    |   |
| B. papyrifera   |    |   | Populus deltoii |    |   | Robinia pseudo |    |   |
| Carpinus carol  |    |   | P. grandident.  |    |   | Sorbus americ. |    |   |
| Carya cordifor  |    |   | P. tremuloides  |    |   | Tilia american | 23 |   |
| C. ovata        |    |   | Prunus americ.  |    |   | Ulmus american |    |   |
| Celtis occiden  |    |   | P. pennsylvan.  |    |   | U. fulva       | 80 |   |
| Crataegus sp.   |    |   | P. serotina     |    |   |                |    |   |

Distance:

20ft

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 atrov.  
 Asarum canad.  
 Aster macrophyll.  
 A. sagittifolius  
 A. shortii  
 Athyrium angust.  
 Aureolaria grandif.  
 Botrychium vir.  
 Brachyelytrum  
 Campanula amer.  
 Carex albursina  
 C. pennsylvan.  
 Caulophyllum thal.  
 Celastrus scan.  
 Circaea latif.  
 Claytonia virg.  
 Cornus altern.  
 C. femina  
 C. rugosa  
 Corylus americana  
 Cryptotaenia canad.  
 Cypripedium pubesc.  
 Cystopteris frag.  
 Dentaria laciniata  
 Desmodium acumin.  
 D. nudiflorum  
 Dicentra cucullaria  
 Dodecatheon meadia  
 Dryopteris spinulosa  
 Erigeron pulchellus  
 Erythronium albidum

Shrubs & Herbs

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

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

✓ Herbs



4001

|      |      |     |        |      |     |        |      |     |
|------|------|-----|--------|------|-----|--------|------|-----|
| 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

Distance:

## Shrubs &amp; 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.  
 Cyripedium pubesc.  
 Cystopteris frag.  
 Dentaria laciniata  
 Desmodium acumin.  
 D. nudiflorum  
 Dicentra cucullaria  
 Dodecatheon meadia  
 Dryopteris spinulosa  
 Erigeron pulchellus  
 Erythronium albidum

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

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

✓ *Cyrtoptis bulbifera*



| 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. — 100" |      |     | Q. ellipsoid.         |      |     |
| Amelanchier sp. |      |     | Juglans cinere        |      |     | Q. macrocarpa         |      |     |
| Betula lutea    |      |     | J. nigra              |      |     | Q. rubra              |      |     |
| B. nigra        |      |     | Ostrya virgin.        |      |     | Q. velutina           |      |     |
| B. papyrifera   |      |     | Populus deltoii       |      |     | Robinia pseudo        |      |     |
| Carpinus carol  |      |     | P. grandident.        |      |     | Sorbus americ.        |      |     |
| Carya cordifor  |      |     | P. tremuloides        |      |     | Tilia american — 105" |      |     |
| C. ovata        |      |     | Prunus americ.        |      |     | Ulmus american        |      |     |
| Celtis occiden  |      |     | P. pennsylvan.        |      |     | U. fulva              |      |     |
| Crataegus sp.   |      |     | P. serotina           |      |     |                       |      |     |

4011

40 ft

Distance:

## Shrubs &amp; 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 atrox.  
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. circaeazans*  
*G. concinnum*  
*G. lanceolatum*  
*G. triflorum*  
*Geranium macul.*  
*Geum canadense*  
*Goodyera pubesc.*  
*Habenaria bract.*  
*Hamamelis virg.*  
*Helianthus strum.*  
*Hepatica acutil.*  
*Heuchera richard.*  
*Hydrastis canad.*  
*Hydrophyllum virg.*  
*Hystrix patula*  
*Impatiens biflora*  
*I. pallida*  
*Isopyrum bitern.*  
*Lactuca spicata*  
*Laportea canad.*  
*Lapoula virgin.*  
*Lathyrus ochrol.*  
*Lonicera proclif.*  
*Lysimachia quadr.*  
*Maianthemum can.*  
*Menispermum can.*  
*Nitella 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

✓ Oleretis  
✓ Staphylin



4011

4011

## I Hardwood Survey

## Presence &amp; Station Record

Stand No.: 4011

| Tree            | BA | S | Tree            | BA  | S | Tree           | BA | S  |
|-----------------|----|---|-----------------|-----|---|----------------|----|----|
| Acer negundo    |    |   | Fagus grandif.  |     |   | Prunus virgin. |    | 2  |
| A. rubrum       |    |   | Fraxinus amer.  |     |   | Quercus alba   |    |    |
| A. saccharinum  |    |   | F. nigra        | 225 |   | Q. bicolor     |    |    |
| A. saccharum    |    |   | F. pennsylvan.  |     |   | Q. ellipsoid.  |    |    |
| Amelanchier sp. |    |   | Juglans cinere  | 115 |   | Q. macrocarpa  |    |    |
| Betula lutea    |    |   | J. nigra        |     |   | Q. rubra       |    |    |
| B. nigra        |    |   | Ostrya virgin.  |     |   | Q. velutina    |    |    |
| B. papyrifera   |    |   | Populus deltoii |     |   | Robinia pseudo |    |    |
| Carpinus carol  |    |   | P. grandident.  |     |   | Sorbus americ. |    |    |
| Carya cordifor  |    |   | P. tremuloides  |     |   | Tilia american |    |    |
| C. ovata        |    |   | Prunus americ.  |     |   | Ulmus american |    |    |
| Celtis occiden  |    |   | P. pennsylvan.  |     |   | U. fulva       |    |    |
| Crataegus sp.   |    |   | P. serotina     |     |   |                |    | 32 |

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 atrov.  
 Asarum canad.  
 Aster macrophyll.  
 A. sagittifolius  
 A. shortii  
 Athyrium angust.  
 Aureolaria grandif.  
 Botrychium vir.  
 Brachyelytrum  
 Campanula amer.  
 Carex albursina  
 C. pennsylvan.  
 Caulophyllum thal.  
 Celastrus scan.  
 Circaea latif.  
 Claytonia virg.  
 Cornus altern.  
 C. femina  
 C. rugosa  
 Corylus americana  
 Cryptotaenia canad.  
 Cypridium pubesc.  
 Cystopteris frag.  
 Dentaria laciniata  
 Desmodium acumin.  
 D. nudiflorum  
 Dicentra cucullaria  
 Dodecatheon meadia  
 Dryopteris spinulosa  
 Erigeron pulchellus  
 Erythronium albidum

## 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  
 Veronicastrum virg.  
 Viburnum acerifolium  
 V. affine  
 Viola cucullata  
 V. pubescens  
 Vitis aestivalis  
 V. riparia  
 Zanthoxylum americ.  
 Zizia aurea

✓ Pteris  
 ✓ Cystopteris



## I Hardwood Survey

## Presence &amp; Station Record

Stand No.: 40015

| 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       | 40   |     | Q. bicolor       |      |     |
| A. saccharum    |      |     | F. pennsylvan. |      |     | Q. ellipsoid.    |      |     |
| Amelanchier sp. |      |     | Juglans cinere |      |     | Q. macrocarpa    |      |     |
| Betula lutea    |      |     | J. nigra       |      |     | Q. rubra         |      |     |
| B. nigra        |      |     | Ostrya virgin. |      |     | Q. velutina      |      |     |
| B. papyrifera   |      |     | Populus deltoi |      |     | Robinia pseudo   |      |     |
| Carpinus carol  |      |     | P. grandident. |      |     | Sorbus americ.   |      |     |
| Carya cordifor  |      |     | P. tremuloides |      |     | Tilia american   | 340  |     |
| C. ovata        |      |     | Prunus americ. |      |     | Ulmus american   |      |     |
| Celtis occiden  |      |     | P. pennsylvan. |      |     | U. fulva         |      |     |
| Crataegus sp.   |      |     | P. serotina    |      |     |                  |      |     |

Distance:

14 ft

|                      |  |  | Shrubs & Herbs        |  |  |                       |  |  |
|----------------------|--|--|-----------------------|--|--|-----------------------|--|--|
| Actaea sp.           |  |  | Eupatorium purpur.    |  |  | Polygonatum commut.   |  |  |
| Adiantum pedat.      |  |  | Eupatorium rugosum    |  |  | Polygonatum pubesc.   |  |  |
| Agrimonia gryp.      |  |  | Festuca obtusa        |  |  | Polygonum virgin.     |  |  |
| Allium tricocc.      |  |  | Fragaria virgin.      |  |  | Potentilla simpl.     |  |  |
| Amphicarpa brac.     |  |  | Galium aparine        |  |  | Prenanthes alba       |  |  |
| Anemone quinque.     |  |  | G. circaezans         |  |  | Pteridium aquil.      |  |  |
| A. virginiana        |  |  | G. concinnum          |  |  | Pyrola elliptica      |  |  |
| 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 atrop.      |  |  | Hieratica acutil.     |  |  | Rubus alleghen.       |  |  |
| Asarum canad.        |  |  | Heuchera richard.     |  |  | R. occidentalis       |  |  |
| Aster macrophyll.    |  |  | Hydrastis canad.      |  |  | R. strigosus          |  |  |
| A. sagittifolius     |  |  | Hydrophyllum virg.    |  |  | Sambucus canad.       |  |  |
| A. shortii           |  |  | Hystrix patula        |  |  | Sanguinaria can.      |  |  |
| Athyrium angust.     |  |  | ✓ Impatiens biflora   |  |  | Sanicula gregaria     |  |  |
| Aureolaria grandif.  |  |  | I. pallida            |  |  | S. marilandica        |  |  |
| Botrychium vir.      |  |  | Isopyrum bitern.      |  |  | Smilacina racemosa    |  |  |
| Brachyelytrum        |  |  | Lactuca spicata       |  |  | S. stellata           |  |  |
| Campanula amer.      |  |  | Laportea canad.       |  |  | Smilax ecirrhata      |  |  |
| Carex albursina      |  |  | Lapula virgin.        |  |  | S. herbacea           |  |  |
| C. pennsylvan.       |  |  | Lathyrus ochrol.      |  |  | S. hispida            |  |  |
| Caulophyllum thal.   |  |  | Lonicera proclif.     |  |  | Solidago altissima    |  |  |
| Celastrus scan.      |  |  | Lysimachia quadr.     |  |  | S. latifolia          |  |  |
| Circaea latif.       |  |  | Maianthemum can.      |  |  | S. ulmifolia          |  |  |
| Claytonia virg.      |  |  | Menispermum can.      |  |  | Thalictrum dioicum    |  |  |
| Cornus altern.       |  |  | Mitella diphylla      |  |  | Trillium cernuum      |  |  |
| C. femina            |  |  | Monarda fistulosa     |  |  | T. flexipes           |  |  |
| C. rugosa            |  |  | Orchis spectab.       |  |  | T. grandiflorum       |  |  |
| Corylus americana    |  |  | Oryzopsis racem.      |  |  | T. recurvatum         |  |  |
| Cryptotaenia canad.  |  |  | Osmorhiza clayton.    |  |  | Triosteum perfoliatum |  |  |
| Cypripedium pubesc.  |  |  | C. 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           |  |  |

L. racemosa



| 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             | 16   |     | 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        | 70   |       |
| C. ovata             |      |     | Prunus americ.       |      |     | Ulmus american        |      |       |
| Celtis occiden       |      |     | P. pennsylvan.       |      |     | U. fulva              |      |       |
| Crataegus sp.        |      |     | P. serotina          |      |     |                       |      |       |
|                      |      |     |                      |      |     | Distance:             |      | 34 ft |
|                      |      |     | Shrubs & Herbs       |      |     |                       |      |       |
| ✓Actaea sp. rubra    |      |     | 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      |      |     | Lapoula virgin.      |      |     | S. herbacea           |      |       |
| C. pennsylvan.       |      |     | Lathyrus ochrol.     |      |     | S. hispida            |      |       |
| Caulophyllum thal.   |      |     | Lonicera prolif.     |      |     | Solidago altissima    |      |       |
| Celastrus scan.      |      |     | Lysimachia quadr.    |      |     | S. latifolia          |      |       |
| ✓Circaea latif.      |      |     | Maianthemum can.     |      |     | S. ulmifolia          |      |       |
| Claytonia virg.      |      |     | Menispermum can.     |      |     | Thalictrum dioicum    |      |       |
| Cornus altern.       |      |     | Mitella diphylla     |      |     | Trillium cernuum      |      |       |
| C. femina            |      |     | Monarda fistulosa    |      |     | T. flexipes           |      |       |
| C. rugosa            |      |     | Orchis spectab.      |      |     | T. grandiflorum       |      |       |
| Corylus americana    |      |     | Oryzopsis racem.     |      |     | T. recurvatum         |      |       |
| Cryptotaenia canad.  |      |     | Osmorhiza clayton.   |      |     | Triosteum perfoliatum |      |       |
| Cypripedium pubesc.  |      |     | O. longistylis       |      |     | Uvularia grandiflora  |      |       |
| Cystopteris frag.    |      |     | Osmunda clayton.     |      |     | Veronicastrum virg.   |      |       |
| Dentaria laciniata   |      |     | Panax quinquef.      |      |     | Viburnum acerifolium  |      |       |
| Desmodium acumin.    |      |     | Panicum latifolium   |      |     | V. affine             |      |       |
| D. nudiflorum        |      |     | Parietaria pennsylv. |      |     | Viola cucullata       |      |       |
| Dicentra cucullaria  |      |     | ✓Parthenocissus vit. |      |     | V. pubescens          |      |       |
| Dodecatheon meadia   |      |     | Phlox divaricata     |      |     | Vitis aestivalis      |      |       |
| Dryopteris spinulosa |      |     | Phryma leptostachya  |      |     | V. riparia            |      |       |
| Erigeron pulchellus  |      |     | Podophyllum pelt.    |      |     | Zanthoxylum americ.   |      |       |
| Erythronium albidum  |      |     | Polemonium reptans   |      |     | Zizia aurea           |      |       |



## I Hardwood Survey

## Presence &amp; Station Record

Stand No.: 4001  
4015

| Tree            | BA | S | Tree            | BA | S | Tree           | BA   | S  |
|-----------------|----|---|-----------------|----|---|----------------|------|----|
| Acer negundo    |    |   | Fagus grandif.  |    |   | Prunus virgin. |      |    |
| A. rubrum       |    |   | Fraxinus amer.  |    |   | Quercus alba   |      |    |
| A. saccharinum  |    |   | F. nigra        |    |   | Q. bicolor     |      |    |
| A. saccharum    |    |   | F. pennsylvan.  |    |   | Q. ellipsoid.  |      |    |
| Amelanchier sp. |    |   | Juglans cinere  |    |   | Q. macrocarpa  |      |    |
| Betula lutea    |    |   | J. nigra        |    |   | Q. rubra       |      |    |
| B. nigra        |    |   | Ostrya virgin.  |    |   | Q. velutina    |      |    |
| B. papyrifera   |    |   | Populus deltoii |    |   | Robinia pseudo |      |    |
| Carpinus carol  |    |   | P. grandident.  |    |   | Sorbus americ. |      |    |
| Carya cordifor  |    |   | P. tremuloides  |    |   | Tilia american | 28   | 2  |
| C. ovata        |    |   | Prunus americ.  |    |   | Ulmus american |      |    |
| Celtis occiden  |    |   | P. pennsylvan.  |    |   | U. fulva       | 760' |    |
| Crataegus sp.   |    |   | P. serotina     |    |   |                |      | 34 |

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 atrov.  
Asarum canad.  
Aster macrophyll.  
A. sagittifolius  
A. shortii  
Athyrium angust.  
Aureolaria grandif.  
Botrychium vir.  
Brachyelytrum  
Campanula amer.  
Carex albursina  
C. pennsylvan.  
Caulophyllum thal.  
Celastrus scan.  
✓ Circaea latif.  
Claytonia virg.  
Cornus altern.  
C. femina  
C. rugosa  
Corylus americana  
Cryptotaenia canad.  
Cypripedium pubesc.  
Cystopteris frag.  
Dentaria laciniata  
Desmodium acumin.  
D. nudiflorum  
Dicentra cucullaria  
Dodecatheon meadia  
Dryopteris spinulosa  
Erigeron pulchellus  
Erythronium albidum

Shrubs & Herbs

Eupatorium purpur.  
Eupatorium rugosum  
Festuca obtusa  
Fragaria virgin.  
Galium aparine  
G. circaezans  
G. concinnum  
G. lanceolatum  
G. triflorum  
Geranium macul.  
Geum canadense  
Goodyera pubesc.  
Habenaria bract.  
Hamamelis virg.  
Helianthus strum.  
Hepatica acutil.  
Heuchera richard.  
Hydrastis canad.  
Hydrophyllum virg.  
Hystrix patula  
✓ Impatiens biflora  
I. pallida  
Isopyrum bitern.  
Lactuca spicata  
Laportea canad.  
Lappula virgin.  
Lathyrus ochrol.  
Lonicera prolif.  
Lysimachia quadr.  
Maianthemum can.  
Menispermum can.  
Mitella diphylla  
Monarda fistulosa  
Orchis spectab.  
Oryzopsis racem.  
Osmorhiza clayton.  
C. 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  
✓ Trivularia grandiflora  
Veronicastrum virg.  
Viburnum acerifolium  
V. affine  
✓ Viola cucullata  
V. pubescens  
Vitis aestivalis  
V. riparia  
Zanthoxylum americ.  
Zizia aurea



| Tree            | BA | S | Tree           | BA | S | Tree           | BA | S |
|-----------------|----|---|----------------|----|---|----------------|----|---|
| Acer negundo    |    |   | Fagus grandif. |    |   | Prunus virgin. |    |   |
| A. rubrum       |    |   | Fraxinus amer. |    |   | Quercus alba   |    |   |
| A. saccharinum  |    |   | F. nigra       |    |   | Q. bicolor     |    |   |
| A. saccharum    |    |   | F. pennsylvan. |    |   | Q. ellipsoid.  |    |   |
| Amelanchier sp. |    |   | Juglans cinere |    |   | Q. macrocarpa  |    |   |
| Betula lutea    |    |   | J. nigra       |    |   | Q. rubra       |    |   |
| B. nigra        |    |   | Ostrya virgin. |    |   | Q. velutina    |    |   |
| B. papyrifera   |    |   | Populus 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: .

|                       |                           |                       |
|-----------------------|---------------------------|-----------------------|
| 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. circaeazans            | 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 atror.     | 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.      | Hystrix patula            | Sanicula gregaria     |
| ✓ Aureolaria grandif. | ✓ Impatiens biflora       | S. marilandica        |
| Botrychium vir.       | I. pallida                | Smilacina racemosa    |
| Brachyelytrum         | Isopyrum bitern.          | S. stellata           |
| Campanula amer.       | Lactuca spicata           | Smilax ecirrhata      |
| Carex albursina       | Laportea canad.           | S. herbacea           |
| C. pennsylvan.        | Lapula virgin.            | S. hispida            |
| Caulophyllum thal.    | Lathyrus ochrol.          | Solidago altissima    |
| Celastrus scan.       | Lonicera prolif.          | S. latifolia          |
| Circaea latif.        | Lysimachia quadr.         | S. ulmifolia          |
| Claytonia virg.       | Maianthemum can.          | Thalictrum dioicum    |
| Cornus altern.        | Menispermum can.          | Trillium cernuum      |
| C. femina             | Mitella diphylla          | T. flexipes           |
| C. rugosa             | Monarda fistulosa         | T. grandiflorum       |
| Corylus americana     | Orchis spectab.           | T. recurvatum         |
| Cryptotaenia canad.   | Oryzopsis racem.          | Triosteum perfoliatum |
| Cypripedium pubesc.   | Osmorhiza clayton.        | Uvularia grandiflora  |
| Cystopteris frag.     | O. longistylis            | Veronicastrum virg.   |
| Dentaria laciniata    | Osmunda clayton.          | Viburnum acerifolium  |
| Desmodium acumin.     | Panax quinquef.           | V. affine             |
| D. nudiflorum         | Panicum latifolium        | Viola cucullata       |
| Dicentra cucullaria   | Parietaria pennsylv.      | ✓ V. pubescens        |
| Dodecatheon meadia    | ✓ Parthenocissus vit.     | Vitis aestivalis      |
| Dryopteris spinulosa  | Phlox divaricata          | V. riparia            |
| Erigeron pulchellus   | Phryma leptostachya       | Zanthoxylum americ.   |
| Erythronium albidum   | Podophyllum pelt.         | Zizia aurea           |
|                       | Polemonium reptans        |                       |



4011

I Hardwood Survey

Presence & Station Record

Stand No.: 20015

| 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 | 35'  |   |
| C. ovata        |    |   | Prunus americ. |    |   | Ulmus american | 225" |   |
| Celtis occiden  |    |   | P. pennsylvan. |    |   | U. fulva       | 21.5 |   |
| Crataegus sp.   |    |   | P. serotina    |    |   |                |      |   |

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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 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

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.
- Lapula 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



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

4011

- ✓ 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 deltoei  
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  
— *R. glabra*  
Distance: —

Actaea sp.

Shrubs &amp; Herbs

- ✓ Actaea sp. *rubra*
- ✓ 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

- ✓ *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*

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

~~Athyrium angust.~~  
 Aureolaria grandif.  
 Botrychium vir.  
 ✓ Brachyelytrum  
 Campanula amer.  
 Carex albursina  
 C. pennsylvan.  
 ✓ Caulophyllum thal.  
 Celastrus scan.  
 ✓ Circaea latif.  
 Claytonia virg.  
 ✓ Cornus altern.

I. pallida  
 Isopyrum bitern.  
 Lactuca spicata  
 ✓ Laportea canad.  
 Laproula 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 pennsyl.  
 ✓ Parthenocissus vit.  
 Phlox divaricata  
 ✓ Phryma leptostachya  
 ✓ Podophyllum pelt.  
 Polemonium reptans

- ✓ *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*



|                     |                      |                        |
|---------------------|----------------------|------------------------|
| 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 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:

✓ Cephalanthus - bulla bulb  
✓ Spiraea ulba