

**One x One Degree**  
**Climate Change Atlas Tree Species**  
 Current and Potential Future Habitat, Capability, and Migration

Area of Region    sq. km    sq. mi    FIA Plots  
 9,130.7    3,525.4    251

**Species Information**

The columns below provide brief summaries of the species associated with the region and described in the table on the next pages. Definitions are provided in the Excel file for this region.

| Genus   | Species   | Abundance |           | Model       |              | Potential Change in Habitat Suitability |                | Capability to Cope or Persist |                | Migration Potential |             |         |    |    |
|---------|-----------|-----------|-----------|-------------|--------------|---|----------------|-------------------------------|----------------|---------------------|-------------|---------|----|----|
|         |           | Abundant  | Common    | Reliability | Adaptability | Scenario RCP45                          | Scenario RCP85 | Scenario RCP45                | Scenario RCP85 | SHIFT RCP45         | SHIFT RCP85 |         |    |    |
| Ash     | 3         |           |           | High        | 23           | Increase                                | 12             | 18                            | Very Good      | 9                   | 10          | Likely  | 1  | 1  |
| Hickory | 5         |           |           | Medium      | 25           | No Change                               | 17             | 15                            | Good           | 6                   | 9           | Infill  | 9  | 10 |
| Maple   | 6         | Abundant  | 8         | Low         | 33           | Decrease                                | 26             | 22                            | Fair           | 12                  | 11          | Migrate | 6  | 14 |
| Oak     | 10        | Common    | 22        | FIA         | 7            | New                                     | 21             | 25                            | Poor           | 15                  | 13          |         | 16 | 25 |
| Pine    | 4         | Rare      | 32        |             |              | Unknown                                 | 12             | 8                             | Very Poor      | 13                  | 10          |         |    |    |
| Other   | 34        | Absent    | 26        |             |              |   |                |                               | FIA Only       | 4                   | 4           |         |    |    |
|         | <b>62</b> |           | <b>88</b> |             | <b>88</b>    |   | <b>88</b>      | <b>88</b>                     | Unknown        | 5                   | 1           |         |    |    |
|         |           |           |           |             |              |   |                |                               |                | <b>64</b>           | <b>58</b>   |         |    |    |

**Potential Changes in Climate Variables**

**Temperature (°F)**

| Scenario       | 2009   | 2039 | 2069 | 2099 |      |  |
|----------------|--------|------|------|------|------|--|
| Annual         | CCSM45 | 46.3 | 48.3 | 50.6 | 50.8 |  |
| Average        | CCSM85 | 46.3 | 48.7 | 51.3 | 54.5 |  |
|                | GFDL45 | 46.3 | 49.2 | 52.6 | 53.9 |  |
|                | GFDL85 | 46.3 | 49.9 | 53.9 | 58.6 |  |
|                | HAD45  | 46.3 | 49.3 | 52.5 | 54.2 |  |
|                | HAD85  | 46.3 | 49.4 | 53.6 | 59.0 |  |
| Growing Season | CCSM45 | 63.5 | 65.7 | 67.4 | 68.0 |  |
|                | CCSM85 | 63.5 | 65.9 | 68.4 | 72.2 |  |
| May—Sep        | GFDL45 | 63.5 | 66.5 | 70.5 | 72.0 |  |
|                | GFDL85 | 63.5 | 67.5 | 72.0 | 76.9 |  |
|                | HAD45  | 63.5 | 66.6 | 69.3 | 71.6 |  |
|                | HAD85  | 63.5 | 66.1 | 70.7 | 76.7 |  |
| Coldest Month  | CCSM45 | 19.7 | 21.6 | 23.6 | 24.0 |  |
|                | CCSM85 | 19.7 | 22.5 | 23.7 | 26.0 |  |
| Average        | GFDL45 | 19.7 | 23.1 | 25.0 | 26.0 |  |
|                | GFDL85 | 19.7 | 23.7 | 25.6 | 28.1 |  |
|                | HAD45  | 19.7 | 22.2 | 25.2 | 25.4 |  |
|                | HAD85  | 19.7 | 23.3 | 25.8 | 29.1 |  |
| Warmest Month  | CCSM45 | 69.5 | 72.3 | 73.3 | 73.5 |  |
|                | CCSM85 | 69.5 | 72.5 | 74.1 | 76.2 |  |
| Average        | GFDL45 | 69.5 | 72.5 | 74.6 | 76.0 |  |
|                | GFDL85 | 69.5 | 73.9 | 76.6 | 79.3 |  |
|                | HAD45  | 69.5 | 72.8 | 74.3 | 75.7 |  |
|                | HAD85  | 69.5 | 72.6 | 75.1 | 79.4 |  |

**Precipitation (in)**

| Scenario       | 2009   | 2039 | 2069 | 2099 |      |  |
|----------------|--------|------|------|------|------|--|
| Annual         | CCSM45 | 45.3 | 45.2 | 43.7 | 48.5 |  |
| Total          | CCSM85 | 45.3 | 45.4 | 47.6 | 50.2 |  |
|                | GFDL45 | 45.3 | 49.6 | 51.4 | 50.0 |  |
|                | GFDL85 | 45.3 | 47.6 | 50.6 | 53.3 |  |
|                | HAD45  | 45.3 | 47.1 | 48.5 | 48.1 |  |
|                | HAD85  | 45.3 | 48.3 | 48.8 | 50.7 |  |
| Growing Season | CCSM45 | 20.9 | 21.8 | 20.5 | 22.0 |  |
|                | CCSM85 | 20.9 | 20.9 | 22.5 | 21.7 |  |
| May—Sep        | GFDL45 | 20.9 | 21.3 | 20.4 | 21.0 |  |
|                | GFDL85 | 20.9 | 21.0 | 20.7 | 20.6 |  |
|                | HAD45  | 20.9 | 22.4 | 21.1 | 21.8 |  |
|                | HAD85  | 20.9 | 21.1 | 21.3 | 22.0 |  |

**NOTE:** For the six climate variables, four 30-year periods are used to indicate six potential future trajectories. The period ending in 2009 is based on modeled observations from the PRISM Climate Group and the three future periods were obtained from the NASA NEX-DCP30 dataset. Future climate projections from three models under two emission scenarios show estimates of each climate variable within the region. The three models are CCSM4, GFDL CM3, and HadGEM2-ES and the emission scenarios are the 4.5 and 8.5 RCP. The average value for the region is reported, even though locations within the region may vary substantially based on latitude, elevation, land-use, or other factors.

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Iverson, Peters, Prasad, Matthews

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| Common Name                | Scientific Name         | Range | MR     | %Cell | FIAsum | FIAiv | ChngCl45  | ChngCl85  | Adap   | Abund    | Capabil45 | Capabil85 | SHIFT45   | SHIFT85   | SSO | N  |
|----------------------------|-------------------------|-------|--------|-------|--------|-------|-----------|-----------|--------|----------|-----------|-----------|-----------|-----------|-----|----|
| red maple                  | Acer rubrum             | WDH   | High   | 85.4  | 1487.9 | 12.2  | No change | No change | High   | Abundant | Very Good | Very Good |           |           | 1   | 1  |
| sugar maple                | Acer saccharum          | WDH   | High   | 78.6  | 1182.0 | 10.2  | No change | No change | High   | Abundant | Very Good | Very Good |           |           | 1   | 2  |
| eastern white pine         | Pinus strobus           | WDH   | High   | 63.4  | 1147.3 | 13.3  | Sm. dec.  | Lg. dec.  | Low    | Abundant | Fair      | Poor      |           |           | 0   | 3  |
| eastern hemlock            | Tsuga canadensis        | NSH   | High   | 54.2  | 935.4  | 11.2  | Sm. dec.  | Lg. dec.  | Low    | Abundant | Fair      | Poor      |           |           | 0   | 4  |
| white ash                  | Fraxinus americana      | WDL   | Medium | 68.8  | 824.6  | 7.8   | No change | Sm. dec.  | Low    | Abundant | Fair      | Fair      |           |           | 0   | 5  |
| northern red oak           | Quercus rubra           | WDH   | Medium | 58.5  | 820.7  | 9.7   | No change | No change | High   | Abundant | Very Good | Very Good |           |           | 1   | 6  |
| black cherry               | Prunus serotina         | WDL   | Medium | 65.8  | 619.5  | 6.4   | No change | No change | Low    | Abundant | Fair      | Fair      |           |           | 0   | 7  |
| American beech             | Fagus grandifolia       | WDH   | High   | 49.7  | 565.6  | 7.9   | Sm. dec.  | No change | Medium | Abundant | Fair      | Good      |           |           | 1   | 8  |
| American elm               | Ulmus americana         | WDH   | Medium | 38.3  | 360.7  | 4.8   | No change | No change | Medium | Common   | Fair      | Fair      |           |           | 1   | 9  |
| sweet birch                | Betula lenta            | NDH   | High   | 52.9  | 340.4  | 4.8   | No change | No change | Low    | Common   | Poor      | Poor      |           |           | 0   | 10 |
| yellow birch               | Betula alleghaniensis   | NDL   | High   | 37.4  | 331.3  | 5.6   | Sm. dec.  | Sm. dec.  | Medium | Common   | Poor      | Poor      |           |           | 0   | 11 |
| black oak                  | Quercus velutina        | WDH   | High   | 19.4  | 171.7  | 6.1   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 12 |
| quaking aspen              | Populus tremuloides     | WDH   | High   | 24.8  | 168.3  | 4.5   | Sm. dec.  | Sm. dec.  | Medium | Common   | Poor      | Poor      |           |           | 0   | 13 |
| chestnut oak               | Quercus prinus          | NDH   | High   | 20.5  | 167.2  | 6.7   | Lg. inc.  | Lg. inc.  | High   | Common   | Very Good | Very Good |           |           | 1   | 14 |
| eastern hophornbeam; ironw | Ostrya virginiana       | WSL   | Low    | 45.5  | 154.4  | 2.7   | Sm. dec.  | No change | High   | Common   | Fair      | Good      |           |           | 1   | 15 |
| white oak                  | Quercus alba            | WDH   | Medium | 23.9  | 145.1  | 5.0   | Lg. inc.  | Lg. inc.  | High   | Common   | Very Good | Very Good |           |           | 1   | 16 |
| paper birch                | Betula papyrifera       | WDH   | High   | 38.9  | 141.6  | 2.8   | Lg. dec.  | Lg. dec.  | Medium | Common   | Poor      | Poor      |           |           | 0   | 17 |
| red spruce                 | Picea rubens            | NDH   | High   | 16    | 119.3  | 4.6   | Sm. dec.  | Sm. dec.  | Low    | Common   | Poor      | Poor      |           |           | 0   | 18 |
| shagbark hickory           | Carya ovata             | WSL   | Medium | 20.4  | 97.3   | 2.8   | Sm. inc.  | Sm. inc.  | Medium | Common   | Good      | Good      |           |           | 1   | 19 |
| black locust               | Robinia pseudoacacia    | NDH   | Low    | 7.9   | 91.8   | 9.5   | No change | Sm. inc.  | Medium | Common   | Fair      | Good      |           |           | 1   | 20 |
| bitternut hickory          | Carya cordiformis       | WSL   | Low    | 14.1  | 90.8   | 4.7   | Sm. dec.  | Sm. inc.  | High   | Common   | Fair      | Very Good |           |           | 1   | 21 |
| American basswood          | Tilia americana         | WSL   | Medium | 19.9  | 87.8   | 2.4   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 22 |
| pignut hickory             | Carya glabra            | WDL   | Medium | 17.5  | 79.6   | 2.6   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 23 |
| boxelder                   | Acer negundo            | WSH   | Low    | 7.7   | 77.2   | 10.1  | No change | No change | High   | Common   | Good      | Good      |           |           | 1   | 24 |
| eastern cottonwood         | Populus deltoides       | NSH   | Low    | 5     | 76.9   | 11.0  | No change | No change | Medium | Common   | Fair      | Fair      | Infill +  | Infill +  | 1   | 25 |
| eastern redcedar           | Juniperus virginiana    | WDH   | Medium | 10.4  | 71.8   | 5.8   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good | Infill ++ | Infill ++ | 1   | 26 |
| pitch pine                 | Pinus rigida            | NSH   | High   | 5     | 66.5   | 9.0   | Sm. dec.  | Sm. dec.  | Medium | Common   | Poor      | Poor      |           |           | 0   | 27 |
| balsam fir                 | Abies balsamea          | NDH   | High   | 8.9   | 58.6   | 2.3   | Sm. dec.  | Sm. dec.  | Low    | Common   | Poor      | Poor      | Infill +  |           | 2   | 28 |
| slippery elm               | Ulmus rubra             | WSL   | Low    | 3.2   | 57.6   | 17.5  | Sm. dec.  | No change | Medium | Common   | Poor      | Fair      | Infill +  | Infill +  | 1   | 29 |
| bigtooth aspen             | Populus grandidentata   | NSL   | Medium | 9.8   | 50.1   | 2.4   | No change | No change | Medium | Common   | Fair      | Fair      |           |           | 1   | 30 |
| green ash                  | Fraxinus pennsylvanica  | WSH   | Low    | 6.6   | 48.0   | 4.3   | No change | Sm. inc.  | Medium | Rare     | Poor      | Fair      |           |           | 1   | 31 |
| striped maple              | Acer pensylvanicum      | NSL   | Medium | 31    | 47.1   | 1.2   | Sm. dec.  | Lg. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 32 |
| serviceberry               | Amelanchier spp.        | NSL   | Low    | 25.4  | 46.3   | 1.4   | Sm. dec.  | Sm. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 33 |
| Norway maple               | Acer platanoides        | NSL   | FIA    | 7.7   | 42.4   | 5.5   | Unknown   | Unknown   | NA     | Rare     | NNIS      | NNIS      |           |           | 0   | 34 |
| American hornbeam; muscle  | Carpinus caroliniana    | WSL   | Low    | 18.7  | 40.5   | 1.6   | Sm. dec.  | No change | Medium | Rare     | Very Poor | Poor      |           |           | 1   | 35 |
| black walnut               | Juglans nigra           | WDH   | Low    | 2.5   | 37.7   | 10.8  | No change | Sm. inc.  | Medium | Rare     | Poor      | Fair      | Infill +  | Infill +  | 1   | 36 |
| gray birch                 | Betula populifolia      | NSL   | Low    | 8.4   | 34.8   | 1.7   | Lg. dec.  | Lg. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 37 |
| pin oak                    | Quercus palustris       | NSH   | Low    | 1.5   | 34.6   | 15.3  | No change | No change | Low    | Rare     | Very Poor | Very Poor |           |           | 2   | 38 |
| scarlet oak                | Quercus coccinea        | WDL   | Medium | 8     | 32.9   | 3.2   | Sm. inc.  | Sm. inc.  | Medium | Rare     | Fair      | Fair      | Infill +  | Infill +  | 1   | 39 |
| black ash                  | Fraxinus nigra          | WSH   | Medium | 6     | 32.4   | 3.2   | Lg. dec.  | Lg. dec.  | Low    | Rare     | Very Poor | Very Poor |           |           | 0   | 40 |
| Scots pine                 | Pinus sylvestris        | NSH   | FIA    | 0.7   | 26.9   | 1.2   | Unknown   | Unknown   | NA     | Rare     | NNIS      | NNIS      |           |           | 0   | 41 |
| yellow-poplar              | Liriodendron tulipifera | WDH   | High   | 1.8   | 22.9   | 9.6   | Lg. inc.  | Lg. inc.  | High   | Rare     | Good      | Good      | Infill ++ | Infill ++ | 2   | 42 |
| black willow               | Salix nigra             | NSH   | Low    | 1.2   | 21.9   | 9.2   | Sm. dec.  | Sm. dec.  | Low    | Rare     | Very Poor | Very Poor |           |           | 2   | 43 |
| swamp white oak            | Quercus bicolor         | NSL   | Low    | 2.2   | 20.6   | 9.4   | No change | No change | Medium | Rare     | Poor      | Poor      | Infill +  | Infill +  | 2   | 44 |
| tamarack (native)          | Larix laricina          | NSH   | High   | 4     | 17.7   | 2.0   | Lg. dec.  | Lg. dec.  | Low    | Rare     | Very Poor | Very Poor |           |           | 0   | 45 |
| Norway spruce              | Picea abies             | NSH   | FIA    | 1.8   | 17.1   | 6.3   | Unknown   | Unknown   | NA     | Rare     | NNIS      | NNIS      |           |           | 0   | 46 |
| river birch                | Betula nigra            | NSL   | Low    | 0.4   | 11.8   | 4.0   | Sm. dec.  | Sm. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 47 |



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| Common Name                 | Scientific Name              | Range | MR     | %Cell | FIAsum | FIAiv | ChngCl45    | ChngCl85      | Adap   | Abund  | Capabil45   | Capabil85   | SHIFT45   | SHIFT85    | SSO        | N    |
|-----------------------------|------------------------------|-------|--------|-------|--------|-------|-------------|---------------|--------|--------|-------------|-------------|-----------|------------|------------|------|
| pin cherry                  | Prunus pensylvanica          | NSL   | Low    | 6.1   | 11.0   | 1.3   | Sm. dec.    | Sm. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |            |            | 0 48 |
| butternut                   | Juglans cinerea              | NSLX  | FIA    | 3.3   | 10.6   | 3.2   | Unknown     | Unknown       | Low    | Rare   | FIA Only    | FIA Only    |           |            |            | 0 49 |
| sycamore                    | Platanus occidentalis        | NSL   | Low    | 1.8   | 9.8    | 3.7   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        |           |            |            | 2 50 |
| bear oak; scrub oak         | Quercus ilicifolia           | NSLX  | FIA    | 2.2   | 7.5    | 3.4   | Unknown     | Unknown       | Medium | Rare   | FIA Only    | FIA Only    |           |            |            | 0 51 |
| bur oak                     | Quercus macrocarpa           | NDH   | Medium | 1.1   | 7.3    | 6.7   | Sm. dec.    | Sm. dec.      | High   | Rare   | Poor        | Poor        |           |            |            | 0 52 |
| red pine                    | Pinus resinosa               | NSH   | Medium | 1.1   | 5.7    | 5.2   | Lg. dec.    | Very Lg. dec. | Low    | Rare   | Very Poor   | Lost        |           |            |            | 0 53 |
| mockernut hickory           | Carya alba                   | WDL   | Medium | 2.2   | 4.9    | 2.2   | Lg. inc.    | Lg. inc.      | High   | Rare   | Good        | Good        | Infill ++ | Infill ++  |            | 2 54 |
| flowering dogwood           | Cornus florida               | WDL   | Medium | 2.2   | 2.9    | 1.3   | No change   | Sm. inc.      | Medium | Rare   | Poor        | Fair        |           | Infill +   |            | 1 55 |
| chinkapin oak               | Quercus muehlenbergii        | NSL   | Medium | 2.2   | 2.5    | 1.1   | No change   | Sm. inc.      | Medium | Rare   | Poor        | Fair        |           | Infill +   |            | 2 56 |
| mountain maple              | Acer spicatum                | NSL   | Low    | 2.1   | 1.4    | 0.1   | Lg. dec.    | Lg. dec.      | High   | Rare   | Poor        | Poor        |           |            |            | 0 57 |
| American mountain-ash       | Sorbus americana             | NSL   | Low    | 2     | 1.4    | 0.6   | Lg. dec.    | Lg. dec.      | Low    | Rare   | Very Poor   | Very Poor   |           |            |            | 0 58 |
| sassafras                   | Sassafras albidum            | WSL   | Low    | 1.1   | 1.3    | 1.2   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        |           |            |            | 2 59 |
| chokecherry                 | Prunus virginiana            | NSLX  | FIA    | 1.1   | 1.1    | 1.0   | Unknown     | Unknown       | Medium | Rare   | FIA Only    | FIA Only    |           |            |            | 0 60 |
| shellbark hickory           | Carya laciniosa              | NSL   | Low    | 0.4   | 0.7    | 0.2   | Lg. dec.    | Very Lg. dec. | Medium | Rare   | Very Poor   | Lost        |           |            |            | 0 61 |
| American chestnut           | Castanea dentata             | NSLX  | FIA    | 1.1   | 0.4    | 0.4   | Unknown     | Unknown       | Medium | Rare   | FIA Only    | FIA Only    |           |            |            | 0 62 |
| shortleaf pine              | Pinus echinata               | WDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            | Migrate ++ | 3 63 |
| Table Mountain pine         | Pinus pungens                | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            | Migrate +  | 3 64 |
| loblolly pine               | Pinus taeda                  | WDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            | Migrate ++ | 3 65 |
| Virginia pine               | Pinus virginiana             | NDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |            | 3 66 |
| silver maple                | Acer saccharinum             | NSH   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |            | 3 67 |
| yellow buckeye              | Aesculus flava               | NSL   | Low    | 0     | 0      | 0     | Unknown     | New Habitat   | Low    | Absent | Unknown     | New Habitat |           |            |            | 0 68 |
| pawpaw                      | Asimina triloba              | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |            | 3 69 |
| cittamwood/gum bumelia      | Sideroxylon lanuginosum ssp. | NSL   | Low    | 0     | 0      | 0     | Unknown     | New Habitat   | High   | Absent | Unknown     | New Habitat |           |            |            | 0 70 |
| pecan                       | Carya illinoensis            | NSH   | Low    | 0     | 0      | 0     | Unknown     | New Habitat   | Low    | Absent | Unknown     | New Habitat |           |            |            | 0 71 |
| black hickory               | Carya texana                 | NDL   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |            | 0 72 |
| sugarberry                  | Celtis laevigata             | NDH   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |            | 0 73 |
| hackberry                   | Celtis occidentalis          | WDH   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |            | 3 74 |
| eastern redbud              | Cercis canadensis            | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |            | 3 75 |
| common persimmon            | Diospyros virginiana         | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            | Migrate +  | 3 76 |
| sweetgum                    | Liquidambar styraciflua      | WDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate ++ |            | 3 77 |
| bigleaf magnolia            | Magnolia macrophylla         | NSL   | Low    | 0     | 0      | 0     | Unknown     | Unknown       | Medium | Absent | Unknown     | Unknown     |           |            |            | 0 78 |
| mountain or Fraser magnolia | Magnolia fraseri             | NSL   | Low    | 0     | 0      | 0     | Unknown     | New Habitat   | Low    | Absent | Unknown     | New Habitat |           |            |            | 0 79 |
| blackgum                    | Nyssa sylvatica              | WDL   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat | Likely +  | Likely +   |            | 3 80 |
| sourwood                    | Oxydendrum arboreum          | NDL   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            |            | 3 81 |
| southern red oak            | Quercus falcata              | WDL   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            | Migrate +  | 3 82 |
| cherrybark oak; swamp red o | Quercus pagoda               | NSL   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |            | 3 83 |
| blackjack oak               | Quercus marilandica          | NSL   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            | Migrate +  | 3 84 |
| willow oak                  | Quercus phellos              | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            | Migrate +  | 3 85 |
| Shumard oak                 | Quercus shumardii            | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            |            | 0 86 |
| post oak                    | Quercus stellata             | WDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            | Migrate ++ | 3 87 |
| winged elm                  | Ulmus alata                  | WDL   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |            | 3 88 |