

### Current and Potential Future Habitat, Capability, and Migration

|                |         |         |           |
|----------------|---------|---------|-----------|
|                | sq. km  | sq. mi  | FIA Plots |
| Area of Region | 8,200.0 | 3,166.0 | 229       |

### 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 |             |           |         |   |   |
|---------|-----------|-----------|-----------|-------------|--------------|---|----------------|-------------------------------|----------------|---------------------|-------------|-----------|---------|---|---|
|         |           |           |           | Reliability | Adaptability | Scenario RCP45                          | Scenario RCP85 | Scenario RCP45                | Scenario RCP85 | SHIFT RCP45         | SHIFT RCP85 |           |         |   |   |
| Ash     | 2         |           |           | High        | 21           | 20                                      | Increase       | 23                            | 31             | Very Good           | 11          | 13        | Likely  | 1 | 2 |
| Hickory | 7         |           |           | Medium      | 27           | 48                                      | No Change      | 11                            | 9              | Good                | 14          | 18        | Infill  | 5 | 9 |
| Maple   | 3         | Abundant  | 5         | Low         | 30           | 11                                      | Decrease       | 28                            | 22             | Fair                | 12          | 11        | Migrate | 3 | 4 |
| Oak     | 13        | Common    | 28        | FIA         | 4            |   | New            | 12                            | 13             | Poor                | 10          | 6         |         |   |   |
| Pine    | 5         | Rare      | 33        |             |              |   | Unknown        | 8                             | 7              | Very Poor           | 15          | 12        |         |   |   |
| Other   | 36        | Absent    | 16        |             |              |   |                |                               |                | FIA Only            | 2           | 2         |         |   |   |
|         | <b>66</b> |           | <b>82</b> |             | <b>82</b>    | <b>79</b>                               |                | <b>82</b>                     | <b>82</b>      | Unknown             | 4           | 3         |         |   |   |
|         |           |           |           |             |              |   |                |                               |                |                     | <b>68</b>   | <b>65</b> |         |   |   |

### Potential Changes in Climate Variables

#### Temperature (°F)

|                          | Scenario | 2009 | 2039 | 2069 | 2099 |  |
|--------------------------|----------|------|------|------|------|--|
| Annual Average           | CCSM45   | 59.9 | 61.7 | 63.8 | 63.9 |  |
|                          | CCSM85   | 59.9 | 62.1 | 64.5 | 67.3 |  |
|                          | GFDL45   | 59.9 | 62.8 | 64.9 | 65.7 |  |
|                          | GFDL85   | 59.9 | 62.8 | 66.1 | 69.8 |  |
|                          | HAD45    | 59.9 | 62.2 | 65.2 | 66.5 |  |
|                          | HAD85    | 59.9 | 62.5 | 66.5 | 70.7 |  |
| Growing Season (May—Sep) | CCSM45   | 74.0 | 75.8 | 77.6 | 78.1 |  |
|                          | CCSM85   | 74.0 | 76.0 | 78.6 | 82.2 |  |
|                          | GFDL45   | 74.0 | 77.3 | 79.5 | 80.9 |  |
|                          | GFDL85   | 74.0 | 77.4 | 81.0 | 85.3 |  |
|                          | HAD45    | 74.0 | 77.1 | 79.8 | 81.4 |  |
|                          | HAD85    | 74.0 | 77.0 | 82.6 | 86.9 |  |
| Coldest Month (Average)  | CCSM45   | 39.2 | 41.6 | 42.5 | 42.5 |  |
|                          | CCSM85   | 39.2 | 41.8 | 42.8 | 43.9 |  |
|                          | GFDL45   | 39.2 | 42.4 | 42.7 | 43.4 |  |
|                          | GFDL85   | 39.2 | 41.3 | 42.3 | 43.1 |  |
|                          | HAD45    | 39.2 | 39.6 | 41.3 | 41.7 |  |
|                          | HAD85    | 39.2 | 40.3 | 41.5 | 43.0 |  |
| Warmest Month (Average)  | CCSM45   | 79.1 | 81.2 | 82.2 | 82.2 |  |
|                          | CCSM85   | 79.1 | 81.4 | 83.0 | 84.7 |  |
|                          | GFDL45   | 79.1 | 82.1 | 83.1 | 84.1 |  |
|                          | GFDL85   | 79.1 | 82.7 | 84.6 | 87.1 |  |
|                          | HAD45    | 79.1 | 82.7 | 84.5 | 85.2 |  |
|                          | HAD85    | 79.1 | 83.3 | 86.7 | 89.2 |  |

#### Precipitation (in)

|                          | Scenario | 2009 | 2039 | 2069 | 2099 |  |
|--------------------------|----------|------|------|------|------|--|
| Annual Total             | CCSM45   | 45.3 | 49.1 | 51.5 | 53.0 |  |
|                          | CCSM85   | 45.3 | 49.6 | 52.6 | 58.2 |  |
|                          | GFDL45   | 45.3 | 50.7 | 54.5 | 57.2 |  |
|                          | GFDL85   | 45.3 | 49.6 | 55.9 | 55.8 |  |
|                          | HAD45    | 45.3 | 46.5 | 48.9 | 49.6 |  |
|                          | HAD85    | 45.3 | 50.1 | 46.1 | 48.5 |  |
| Growing Season (May—Sep) | CCSM45   | 19.0 | 21.9 | 23.3 | 24.5 |  |
|                          | CCSM85   | 19.0 | 21.3 | 22.3 | 24.8 |  |
|                          | GFDL45   | 19.0 | 23.0 | 25.6 | 26.3 |  |
|                          | GFDL85   | 19.0 | 21.8 | 26.6 | 26.6 |  |
|                          | HAD45    | 19.0 | 19.2 | 19.6 | 20.4 |  |
|                          | HAD85    | 19.0 | 21.9 | 18.2 | 18.1 |  |

**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.

**Cite as:** Iverson, L.R.; Prasad, A.M.; Peters, M.P.; Matthews, S.N. 2019. Facilitating Adaptive Forest Management under Climate Change: A Spatially Specific Synthesis of 125 Species for Habitat Changes and Assisted Migration over the Eastern United States. *Forests*. 10(11): 989. <https://doi.org/10.3390/f10110989>.

### Current and Potential Future Habitat, Capability, and Migration

| Common Name                | Scientific Name         | Range | MR     | %Cell | FIAsum | FIAiv | ChngCl45  | ChngCl85  | Adap   | Abund    | Capabil45 | Capabil85 | SHIFT45   | SHIFT85   | SSO | N  |
|----------------------------|-------------------------|-------|--------|-------|--------|-------|-----------|-----------|--------|----------|-----------|-----------|-----------|-----------|-----|----|
| loblolly pine              | Pinus taeda             | WDH   | High   | 58.5  | 1506.3 | 27.6  | Sm. inc.  | Sm. inc.  | Medium | Abundant | Very Good | Very Good |           |           | 1   | 1  |
| sweetgum                   | Liquidambar styraciflua | WDH   | High   | 87.8  | 934.6  | 11.3  | Sm. inc.  | Sm. inc.  | Medium | Abundant | Very Good | Very Good |           |           | 1   | 2  |
| yellow-poplar              | Liriodendron tulipifera | WDH   | High   | 78    | 690.0  | 9.4   | Lg. dec.  | Lg. dec.  | High   | Abundant | Good      | Good      |           |           | 1   | 3  |
| shortleaf pine             | Pinus echinata          | WDH   | High   | 69.5  | 579.9  | 8.9   | Sm. inc.  | Sm. inc.  | Medium | Abundant | Very Good | Very Good |           |           | 1   | 4  |
| Virginia pine              | Pinus virginiana        | NDH   | High   | 58.5  | 534.4  | 9.8   | Lg. dec.  | Lg. dec.  | Medium | Abundant | Fair      | Fair      |           |           | 0   | 5  |
| red maple                  | Acer rubrum             | WDH   | High   | 84.1  | 477.7  | 6.0   | No change | No change | High   | Common   | Good      | Good      |           |           | 1   | 6  |
| white oak                  | Quercus alba            | WDH   | Medium | 67.1  | 454.9  | 7.4   | No change | No change | High   | Common   | Good      | Good      |           |           | 1   | 7  |
| black cherry               | Prunus serotina         | WDL   | Medium | 70.7  | 362.2  | 5.5   | Sm. dec.  | No change | Low    | Common   | Poor      | Poor      |           |           | 0   | 8  |
| water oak                  | Quercus nigra           | WDH   | High   | 57.3  | 350.2  | 6.1   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 9  |
| eastern redcedar           | Juniperus virginiana    | WDH   | Medium | 70.7  | 306.5  | 4.6   | Sm. inc.  | Lg. inc.  | Medium | Common   | Good      | Very Good |           |           | 1   | 10 |
| southern red oak           | Quercus falcata         | WDL   | Medium | 62.2  | 244.7  | 4.2   | Lg. inc.  | Lg. inc.  | High   | Common   | Very Good | Very Good |           |           | 1   | 11 |
| northern red oak           | Quercus rubra           | WDH   | Medium | 52.4  | 238.4  | 5.0   | Sm. dec.  | Sm. dec.  | High   | Common   | Fair      | Fair      |           |           | 1   | 12 |
| sourwood                   | Oxydendrum arboreum     | NDL   | High   | 54.9  | 204.3  | 4.0   | Sm. dec.  | Sm. dec.  | High   | Common   | Fair      | Fair      |           |           | 1   | 13 |
| river birch                | Betula nigra            | NSL   | Low    | 13.4  | 162.0  | 12.1  | No change | Sm. inc.  | Medium | Common   | Fair      | Good      |           |           | 1   | 14 |
| chestnut oak               | Quercus prinus          | NDH   | High   | 17.1  | 160.1  | 9.4   | Lg. dec.  | Lg. dec.  | High   | Common   | Fair      | Fair      |           |           | 1   | 15 |
| mockernut hickory          | Carya alba              | WDL   | Medium | 54.9  | 139.5  | 2.8   | Lg. inc.  | Lg. inc.  | High   | Common   | Very Good | Very Good |           |           | 1   | 16 |
| scarlet oak                | Quercus coccinea        | WDL   | Medium | 29.3  | 127.0  | 4.3   | Sm. dec.  | Lg. dec.  | Medium | Common   | Poor      | Poor      |           |           | 0   | 17 |
| willow oak                 | Quercus phellos         | NSL   | Low    | 31.7  | 123.1  | 3.9   | Sm. dec.  | Sm. dec.  | Medium | Common   | Poor      | Poor      |           |           | 0   | 18 |
| American beech             | Fagus grandifolia       | WDH   | High   | 39    | 115.6  | 3.3   | No change | Sm. inc.  | Medium | Common   | Fair      | Good      |           |           | 1   | 19 |
| winged elm                 | Ulmus alata             | WDL   | Medium | 42.7  | 115.2  | 2.7   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 20 |
| flowering dogwood          | Cornus florida          | WDL   | Medium | 63.4  | 114.2  | 2.0   | No change | No change | Medium | Common   | Fair      | Fair      |           |           | 1   | 21 |
| American hornbeam; muscley | Carpinus caroliniana    | WSL   | Low    | 28    | 111.3  | 4.0   | No change | Sm. inc.  | Medium | Common   | Fair      | Good      |           |           | 1   | 22 |
| green ash                  | Fraxinus pennsylvanica  | WSH   | Low    | 24.4  | 99.7   | 4.1   | Sm. inc.  | Lg. inc.  | Medium | Common   | Good      | Very Good |           |           | 1   | 23 |
| pignut hickory             | Carya glabra            | WDL   | Medium | 43.9  | 93.7   | 2.4   | Sm. inc.  | Sm. inc.  | Medium | Common   | Good      | Good      |           |           | 1   | 24 |
| blackgum                   | Nyssa sylvatica         | WDL   | Medium | 54.9  | 92.6   | 1.8   | Lg. inc.  | Lg. inc.  | High   | Common   | Very Good | Very Good |           |           | 1   | 25 |
| post oak                   | Quercus stellata        | WDH   | High   | 37.8  | 86.6   | 2.6   | Lg. inc.  | Lg. inc.  | High   | Common   | Very Good | Very Good |           |           | 1   | 26 |
| black oak                  | Quercus velutina        | WDH   | High   | 37.8  | 79.6   | 2.4   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 27 |
| sycamore                   | Platanus occidentalis   | NSL   | Low    | 17.1  | 69.2   | 4.1   | Sm. dec.  | Sm. inc.  | Medium | Common   | Poor      | Good      |           |           | 1   | 28 |
| white ash                  | Fraxinus americana      | WDL   | Medium | 31.7  | 62.8   | 2.3   | Sm. inc.  | Lg. inc.  | Low    | Common   | Fair      | Good      |           |           | 1   | 29 |
| pecan                      | Carya illinoensis       | NSH   | Low    | 1.2   | 61.0   | 50.0  | Sm. dec.  | No change | Low    | Common   | Poor      | Poor      | Infill +  |           | 0   | 30 |
| common persimmon           | Diospyros virginiana    | NSL   | Low    | 25.6  | 57.7   | 2.7   | Lg. dec.  | Lg. dec.  | High   | Common   | Fair      | Fair      |           |           | 1   | 31 |
| American elm               | Ulmus americana         | WDH   | Medium | 23.2  | 55.6   | 2.9   | Lg. inc.  | Lg. inc.  | Medium | Common   | Very Good | Very Good |           |           | 1   | 32 |
| black willow               | Salix nigra             | NSH   | Low    | 4.9   | 53.3   | 10.9  | No change | No change | Low    | Common   | Poor      | Poor      | Infill +  |           | 0   | 33 |
| ailanthus                  | Ailanthus altissima     | NSL   | FIA    | 4.9   | 41.2   | 8.5   | Unknown   | Unknown   | NA     | Rare     | NNIS      | NNIS      |           |           | 0   | 34 |
| American holly             | Ilex opaca              | NSL   | Medium | 26.8  | 35.9   | 1.3   | No change | Sm. inc.  | Medium | Rare     | Poor      | Fair      |           |           | 1   | 35 |
| shagbark hickory           | Carya ovata             | WSL   | Medium | 9.8   | 28.6   | 2.9   | Sm. dec.  | Sm. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 36 |
| pitch pine                 | Pinus rigida            | NSH   | High   | 2.4   | 27.6   | 11.3  | Sm. dec.  | Sm. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 37 |
| florida maple              | Acer barbatum           | NSL   | Low    | 12.2  | 27.4   | 2.3   | Sm. inc.  | Lg. inc.  | High   | Rare     | Good      | Good      |           |           | 1   | 38 |
| eastern cottonwood         | Populus deltoides       | NSH   | Low    | 3.7   | 25.6   | 7.0   | Sm. dec.  | Sm. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 39 |
| slippery elm               | Ulmus rubra             | WSL   | Low    | 15.9  | 24.9   | 2.2   | Lg. dec.  | No change | Medium | Rare     | Very Poor | Poor      |           |           | 1   | 40 |
| black locust               | Robinia pseudoacacia    | NDH   | Low    | 6.1   | 24.3   | 4.0   | Lg. dec.  | Lg. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 41 |
| eastern white pine         | Pinus strobus           | WDH   | High   | 4.9   | 21.6   | 4.4   | Sm. dec.  | Sm. dec.  | Low    | Rare     | Very Poor | Very Poor |           |           | 2   | 42 |
| sand hickory               | Carya pallida           | NSL   | FIA    | 12.2  | 19.6   | 1.6   | Unknown   | Unknown   | NA     | Rare     | FIA Only  | FIA Only  |           |           | 0   | 43 |
| blackjack oak              | Quercus marilandica     | NSL   | Medium | 3.7   | 19.2   | 5.2   | Lg. inc.  | Lg. inc.  | High   | Rare     | Good      | Good      | Infill ++ | Infill ++ | 2   | 44 |
| eastern redbud             | Cercis canadensis       | NSL   | Low    | 14.6  | 16.0   | 1.1   | Lg. dec.  | Sm. inc.  | Medium | Rare     | Very Poor | Fair      |           |           | 1   | 45 |
| black walnut               | Juglans nigra           | WDH   | Low    | 13.4  | 15.6   | 1.2   | Lg. dec.  | Lg. dec.  | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 46 |
| boxelder                   | Acer negundo            | WSH   | Low    | 3.7   | 14.8   | 4.0   | Sm. dec.  | No change | High   | Rare     | Poor      | Fair      | Infill +  |           | 1   | 47 |

### Current and Potential Future Habitat, Capability, and Migration

| Common Name                  | Scientific Name              | Range | MR     | %Cell | FIAsum | FIAiv | ChngCl45    | ChngCl85      | Adap   | Abund  | Capabil45   | Capabil85   | SHIFT45   | SHIFT85    | SSO | N    |
|------------------------------|------------------------------|-------|--------|-------|--------|-------|-------------|---------------|--------|--------|-------------|-------------|-----------|------------|-----|------|
| honeylocust                  | Gleditsia triacanthos        | NSH   | Low    | 2.4   | 10.9   | 4.5   | No change   | Sm. inc.      | High   | Rare   | Fair        | Good        |           | Infill ++  |     | 2 48 |
| laurel oak                   | Quercus laurifolia           | NDH   | Medium | 6.1   | 10.8   | 1.8   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        | Infill ++ |            |     | 1 49 |
| sugarberry                   | Celtis laevigata             | NDH   | Medium | 4.9   | 8.7    | 1.8   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        | Infill ++ | Infill ++  |     | 2 50 |
| red mulberry                 | Morus rubra                  | NSL   | Low    | 4.9   | 7.2    | 1.5   | No change   | Sm. inc.      | Medium | Rare   | Poor        | Fair        |           |            |     | 1 51 |
| bitternut hickory            | Carya cordiformis            | WSL   | Low    | 4.9   | 6.1    | 1.3   | Lg. dec.    | Very Lg. dec. | High   | Rare   | Poor        | Lost        |           |            |     | 0 52 |
| hackberry                    | Celtis occidentalis          | WDH   | Medium | 2.4   | 6.0    | 2.4   | No change   | No change     | High   | Rare   | Fair        | Fair        | Infill +  | Infill +   |     | 2 53 |
| sassafras                    | Sassafras albidum            | WSL   | Low    | 4.9   | 4.1    | 0.8   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        |           | Infill ++  |     | 1 54 |
| American basswood            | Tilia americana              | WSL   | Medium | 3.7   | 4.1    | 1.1   | Lg. dec.    | Lg. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |            |     | 0 55 |
| silverbell                   | Halesia spp.                 | NSL   | Low    | 2.4   | 2.6    | 1.1   | Sm. dec.    | Lg. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |            |     | 0 56 |
| eastern hophornbeam; ironw   | Ostrya virginiana            | WSL   | Low    | 3.7   | 2.3    | 0.6   | Lg. inc.    | Lg. inc.      | High   | Rare   | Good        | Good        | Infill ++ | Infill ++  |     | 2 57 |
| shellbark hickory            | Carya laciniosa              | NSL   | Low    | 1.2   | 2.2    | 1.8   | Sm. dec.    | Sm. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |            |     | 0 58 |
| cucumbertree                 | Magnolia acuminata           | NSL   | Low    | 1.2   | 1.3    | 1.1   | Lg. dec.    | Sm. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |            |     | 0 59 |
| cherrybark oak; swamp red o. | Quercus pagoda               | NSL   | Medium | 1.2   | 0.9    | 0.7   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        |           |            |     | 2 60 |
| white mulberry               | Morus alba                   | NSL   | FIA    | 1.2   | 0.7    | 0.6   | Unknown     | Unknown       | NA     | Rare   | NNIS        | NNIS        |           |            |     | 0 61 |
| pawpaw                       | Asimina triloba              | NSL   | Low    | 1.2   | 0.7    | 0.5   | Lg. dec.    | Very Lg. dec. | Medium | Rare   | Very Poor   | Lost        |           |            |     | 0 62 |
| mountain or Fraser magnolia  | Magnolia fraseri             | NSL   | Low    | 1.2   | 0.5    | 0.4   | Lg. dec.    | Lg. dec.      | Low    | Rare   | Very Poor   | Very Poor   |           |            |     | 0 63 |
| serviceberry                 | Amelanchier spp.             | NSL   | Low    | 1.2   | 0.4    | 0.4   | Lg. dec.    | Lg. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |            |     | 0 64 |
| American chestnut            | Castanea dentata             | NSLX  | FIA    | 1.2   | 0.4    | 0.3   | Unknown     | Unknown       | Medium | Rare   | FIA Only    | FIA Only    |           |            |     | 0 65 |
| bluejack oak                 | Quercus incana               | NSL   | Low    | 1.2   | 0.3    | 0.3   | Lg. inc.    | Lg. inc.      | Medium | Rare   | Good        | Good        |           |            |     | 2 66 |
| ashe juniper                 | Juniperus ashei              | NDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |     | 0 67 |
| slash pine                   | Pinus elliotii               | NDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate ++ |     | 3 68 |
| longleaf pine                | Pinus palustris              | NSH   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |     | 3 69 |
| eastern hemlock              | Tsuga canadensis             | NSH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Low    | Absent | New Habitat | New Habitat | Likely +  | Likely +   |     | 3 70 |
| striped maple                | Acer pensylvanicum           | NSL   | Medium | 0     | 0      | 0     | Unknown     | New Habitat   | Medium | Absent | Unknown     | New Habitat |           | Likely +   |     | 3 71 |
| sugar maple                  | Acer saccharum               | WDH   | High   | 0     | 0      | 0     | Unknown     | Unknown       | High   | Absent | Unknown     | Unknown     |           |            |     | 0 72 |
| yellow buckeye               | Aesculus flava               | NSL   | Low    | 0     | 0      | 0     | Unknown     | Unknown       | Low    | Absent | Unknown     | Unknown     |           |            |     | 0 73 |
| yellow birch                 | Betula alleghaniensis        | NDL   | High   | 0     | 0      | 0     | Unknown     | Unknown       | Medium | Absent | Unknown     | Unknown     |           |            |     | 0 74 |
| cittamwood/gum bumelia       | Sideroxylon lanuginosum ssp. | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | High   | Absent | New Habitat | New Habitat |           |            |     | 3 75 |
| black hickory                | Carya texana                 | NDL   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |     | 3 76 |
| black ash                    | Fraxinus nigra               | WSH   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Low    | Absent | New Habitat | New Habitat |           |            |     | 3 77 |
| southern magnolia            | Magnolia grandiflora         | NSL   | Low    | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           |            |     | 3 78 |
| sweetbay                     | Magnolia virginiana          | NSL   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate +  |     | 3 79 |
| swamp tupelo                 | Nyssa biflora                | NDH   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Low    | Absent | New Habitat | New Habitat |           |            |     | 3 80 |
| live oak                     | Quercus virginiana           | NDH   | High   | 0     | 0      | 0     | New Habitat | New Habitat   | Medium | Absent | New Habitat | New Habitat |           | Migrate ++ |     | 3 81 |
| cedar elm                    | Ulmus crassifolia            | NDH   | Medium | 0     | 0      | 0     | New Habitat | New Habitat   | Low    | Absent | New Habitat | New Habitat |           |            |     | 0 82 |