

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

sq. km      sq. mi      FIA Plots  
 Area of Region    9,549.4    3,687.0      278

**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     | 3         |           |           | High        | 17           | 23                                      | Increase       | 16                            | 19             | Very Good           | 8           | 6         | Likely  | 1 | 1  |
| Hickory | 4         |           |           | Medium      | 25           | 40                                      | No Change      | 12                            | 15             | Good                | 11          | 17        | Infill  | 3 | 5  |
| Maple   | 5         | Abundant  | 6         | Low         | 31           | 13                                      | Decrease       | 27                            | 21             | Fair                | 14          | 13        | Migrate | 6 | 10 |
| Oak     | 9         | Common    | 26        | FIA         | 6            |   | New            | 13                            | 14             | Poor                | 9           | 5         |         |   |    |
| Pine    | 4         | Rare      | 29        |             |              |   | Unknown        | 11                            | 10             | Very Poor           | 12          | 12        |         |   |    |
| Other   | 36        | Absent    | 17        |             |              |   |                |                               |                | FIA Only            | 3           | 3         |         |   |    |
|         | <b>61</b> |           | <b>78</b> |             | <b>79</b>    | <b>76</b>                               |                | <b>79</b>                     | <b>79</b>      | Unknown             | 5           | 4         |         |   |    |
|         |           |           |           |             |              |   |                |                               |                |                     | <b>62</b>   | <b>60</b> |         |   |    |

**Potential Changes in Climate Variables**

**Temperature (°F)**

|                          | Scenario | 2009 | 2039 | 2069 | 2099 |  |
|--------------------------|----------|------|------|------|------|--|
| Annual Average           | CCSM45   | 51.5 | 53.4 | 55.9 | 56.0 |  |
|                          | CCSM85   | 51.5 | 53.9 | 56.4 | 59.6 |  |
|                          | GFDL45   | 51.5 | 54.3 | 57.4 | 58.4 |  |
|                          | GFDL85   | 51.5 | 54.9 | 58.5 | 62.6 |  |
|                          | HAD45    | 51.5 | 54.3 | 57.8 | 59.2 |  |
|                          | HAD85    | 51.5 | 54.6 | 59.0 | 63.6 |  |
| Growing Season (May—Sep) | CCSM45   | 67.2 | 69.0 | 71.3 | 71.8 |  |
|                          | CCSM85   | 67.2 | 69.5 | 72.1 | 76.2 |  |
|                          | GFDL45   | 67.2 | 70.3 | 74.3 | 75.7 |  |
|                          | GFDL85   | 67.2 | 71.4 | 75.7 | 80.4 |  |
|                          | HAD45    | 67.2 | 70.5 | 73.9 | 75.7 |  |
|                          | HAD85    | 67.2 | 70.6 | 76.2 | 81.3 |  |
| Coldest Month (Average)  | CCSM45   | 27.6 | 29.4 | 31.0 | 31.4 |  |
|                          | CCSM85   | 27.6 | 30.4 | 31.5 | 33.1 |  |
|                          | GFDL45   | 27.6 | 30.9 | 31.7 | 32.4 |  |
|                          | GFDL85   | 27.6 | 30.5 | 31.6 | 32.8 |  |
|                          | HAD45    | 27.6 | 28.4 | 30.8 | 30.9 |  |
|                          | HAD85    | 27.6 | 29.2 | 31.1 | 33.2 |  |
| Warmest Month (Average)  | CCSM45   | 72.6 | 74.7 | 75.9 | 76.3 |  |
|                          | CCSM85   | 72.6 | 75.0 | 76.7 | 78.9 |  |
|                          | GFDL45   | 72.6 | 76.0 | 78.2 | 79.5 |  |
|                          | GFDL85   | 72.6 | 77.4 | 80.0 | 82.7 |  |
|                          | HAD45    | 72.6 | 76.4 | 78.9 | 80.2 |  |
|                          | HAD85    | 72.6 | 77.5 | 81.3 | 84.6 |  |

**Precipitation (in)**

|                          | Scenario | 2009 | 2039 | 2069 | 2099 |  |
|--------------------------|----------|------|------|------|------|--|
| Annual Total             | CCSM45   | 44.5 | 47.7 | 47.5 | 48.9 |  |
|                          | CCSM85   | 44.5 | 47.3 | 49.1 | 52.5 |  |
|                          | GFDL45   | 44.5 | 48.8 | 49.9 | 51.6 |  |
|                          | GFDL85   | 44.5 | 45.8 | 51.0 | 52.5 |  |
|                          | HAD45    | 44.5 | 46.6 | 46.6 | 46.2 |  |
|                          | HAD85    | 44.5 | 46.9 | 43.9 | 46.4 |  |
| Growing Season (May—Sep) | CCSM45   | 20.5 | 22.2 | 21.9 | 22.3 |  |
|                          | CCSM85   | 20.5 | 21.4 | 21.6 | 22.3 |  |
|                          | GFDL45   | 20.5 | 22.3 | 21.6 | 22.2 |  |
|                          | GFDL85   | 20.5 | 20.2 | 21.2 | 21.6 |  |
|                          | HAD45    | 20.5 | 22.3 | 19.3 | 20.3 |  |
|                          | HAD85    | 20.5 | 21.3 | 18.3 | 19.0 |  |

**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

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  |
|----------------------------|-------------------------|-------|--------|-------|--------|-------|-----------|---------------|--------|----------|-----------|-----------|-----------|-----------|-----|----|
| sugar maple                | Acer saccharum          | WDH   | High   | 84    | 1360.1 | 11.1  | Sm. dec.  | Sm. dec.      | High   | Abundant | Good      | Good      |           |           | 1   | 1  |
| red maple                  | Acer rubrum             | WDH   | High   | 81.2  | 1311.9 | 9.9   | Sm. dec.  | Lg. dec.      | High   | Abundant | Good      | Good      |           |           | 1   | 2  |
| black cherry               | Prunus serotina         | WDL   | Medium | 71    | 1114.1 | 8.5   | Sm. dec.  | Lg. dec.      | Low    | Abundant | Fair      | Poor      |           |           | 0   | 3  |
| yellow-poplar              | Liriodendron tulipifera | WDH   | High   | 78.8  | 1092.2 | 11.1  | Sm. dec.  | Lg. dec.      | High   | Abundant | Good      | Good      |           |           | 1   | 4  |
| white ash                  | Fraxinus americana      | WDL   | Medium | 72.6  | 794.7  | 6.9   | Sm. dec.  | Sm. dec.      | Low    | Abundant | Fair      | Fair      |           |           | 0   | 5  |
| black locust               | Robinia pseudoacacia    | NDH   | Low    | 49.1  | 520.0  | 7.9   | Sm. dec.  | Sm. dec.      | Medium | Abundant | Fair      | Fair      |           |           | 0   | 6  |
| white oak                  | Quercus alba            | WDH   | Medium | 56.5  | 475.5  | 6.2   | Lg. inc.  | Sm. inc.      | High   | Common   | Very Good | Very Good |           |           | 1   | 7  |
| American elm               | Ulmus americana         | WDH   | Medium | 47.8  | 455.0  | 5.3   | No change | No change     | Medium | Common   | Fair      | Fair      |           |           | 1   | 8  |
| black walnut               | Juglans nigra           | WDH   | Low    | 54.4  | 367.6  | 4.5   | No change | No change     | Medium | Common   | Fair      | Fair      |           |           | 1   | 9  |
| slippery elm               | Ulmus rubra             | WSL   | Low    | 57.6  | 345.4  | 3.9   | Sm. dec.  | No change     | Medium | Common   | Poor      | Fair      |           |           | 1   | 10 |
| American beech             | Fagus grandifolia       | WDH   | High   | 53.9  | 320.2  | 4.3   | No change | No change     | Medium | Common   | Fair      | Fair      |           |           | 1   | 11 |
| northern red oak           | Quercus rubra           | WDH   | Medium | 57    | 316.4  | 3.5   | Sm. inc.  | Sm. inc.      | High   | Common   | Very Good | Very Good |           |           | 1   | 12 |
| boxelder                   | Acer negundo            | WSH   | Low    | 24.4  | 288.2  | 7.1   | Sm. dec.  | No change     | High   | Common   | Fair      | Good      |           |           | 1   | 13 |
| shagbark hickory           | Carya ovata             | WSL   | Medium | 59.7  | 259.6  | 3.2   | No change | No change     | Medium | Common   | Fair      | Fair      |           |           | 1   | 14 |
| black oak                  | Quercus velutina        | WDH   | High   | 46.7  | 249.9  | 4.2   | Lg. inc.  | Lg. inc.      | Medium | Common   | Very Good | Very Good |           |           | 1   | 15 |
| sycamore                   | Platanus occidentalis   | NSL   | Low    | 31.4  | 241.8  | 5.3   | No change | Sm. inc.      | Medium | Common   | Fair      | Good      |           |           | 1   | 16 |
| sassafras                  | Sassafras albidum       | WSL   | Low    | 51.5  | 232.3  | 3.0   | Sm. inc.  | Sm. inc.      | Medium | Common   | Good      | Good      |           |           | 1   | 17 |
| pignut hickory             | Carya glabra            | WDL   | Medium | 46.8  | 231.4  | 3.6   | Sm. inc.  | Sm. inc.      | Medium | Common   | Good      | Good      |           |           | 1   | 18 |
| mockernut hickory          | Carya alba              | WDL   | Medium | 44    | 211.4  | 4.2   | Sm. inc.  | Lg. inc.      | High   | Common   | Very Good | Very Good |           |           | 1   | 19 |
| chestnut oak               | Quercus prinus          | NDH   | High   | 33.6  | 205.4  | 4.9   | Sm. inc.  | No change     | High   | Common   | Very Good | Good      |           |           | 1   | 20 |
| blackgum                   | Nyssa sylvatica         | WDL   | Medium | 47    | 156.7  | 2.8   | Sm. inc.  | Sm. inc.      | High   | Common   | Very Good | Very Good |           |           | 1   | 21 |
| sourwood                   | Oxydendrum arboreum     | NDL   | High   | 21.5  | 118.4  | 4.4   | No change | Sm. dec.      | High   | Common   | Good      | Fair      |           |           | 1   | 22 |
| bigtooth aspen             | Populus grandidentata   | NSL   | Medium | 21.8  | 111.2  | 3.9   | Lg. dec.  | Lg. dec.      | Medium | Common   | Poor      | Poor      |           |           | 0   | 23 |
| eastern white pine         | Pinus strobus           | WDH   | High   | 6.7   | 102.2  | 4.4   | Lg. dec.  | Lg. dec.      | Low    | Common   | Very Poor | Very Poor |           |           | 0   | 24 |
| American basswood          | Tilia americana         | WSL   | Medium | 21.7  | 97.6   | 3.3   | Lg. dec.  | Lg. dec.      | Medium | Common   | Poor      | Poor      |           |           | 0   | 25 |
| yellow buckeye             | Aesculus flava          | NSL   | Low    | 17.2  | 93.8   | 4.3   | Lg. dec.  | Lg. dec.      | Low    | Common   | Very Poor | Very Poor |           |           | 0   | 26 |
| bitternut hickory          | Carya cordiformis       | WSL   | Low    | 33.3  | 92.4   | 2.0   | Lg. inc.  | Lg. inc.      | High   | Common   | Very Good | Very Good |           |           | 1   | 27 |
| scarlet oak                | Quercus coccinea        | WDL   | Medium | 20.1  | 80.6   | 3.8   | Lg. inc.  | Sm. inc.      | Medium | Common   | Very Good | Good      |           |           | 1   | 28 |
| American hornbeam; muscle  | Carpinus caroliniana    | WDL   | Low    | 25.9  | 71.9   | 2.2   | Lg. dec.  | No change     | Medium | Common   | Poor      | Fair      |           |           | 1   | 29 |
| sweet birch                | Betula lenta            | NDH   | High   | 7.2   | 62.1   | 5.0   | Sm. dec.  | Lg. dec.      | Low    | Common   | Poor      | Very Poor |           |           | 0   | 30 |
| Virginia pine              | Pinus virginiana        | NDH   | High   | 8.6   | 59.6   | 3.2   | No change | No change     | Medium | Common   | Fair      | Fair      |           |           | 1   | 31 |
| ailanthus                  | Ailanthus altissima     | NSL   | FIA    | 16    | 56.2   | 2.6   | Unknown   | Unknown       | NA     | Common   | NNIS      | NNIS      |           |           | 0   | 32 |
| eastern hophornbeam; ironw | Ostrya virginiana       | WSL   | Low    | 28.5  | 43.3   | 1.3   | No change | Lg. inc.      | High   | Rare     | Fair      | Good      |           |           | 1   | 33 |
| silver maple               | Acer saccharinum        | NSH   | Low    | 3.7   | 39.6   | 7.3   | Sm. dec.  | No change     | High   | Rare     | Poor      | Fair      |           | Infill +  | 1   | 34 |
| Osage-orange               | Maclura pomifera        | NDH   | Medium | 4.4   | 39.1   | 7.2   | Sm. dec.  | No change     | High   | Rare     | Poor      | Fair      | Infill +  | Infill +  | 2   | 35 |
| hackberry                  | Celtis occidentalis     | WDH   | Medium | 12.1  | 37.3   | 2.2   | Lg. inc.  | Lg. inc.      | High   | Rare     | Good      | Good      |           |           | 1   | 36 |
| flowering dogwood          | Cornus florida          | WDL   | Medium | 28.4  | 36.6   | 1.0   | Lg. inc.  | Lg. inc.      | Medium | Rare     | Good      | Good      |           |           | 1   | 37 |
| black maple                | Acer nigrum             | NSH   | Low    | 6     | 35.7   | 1.2   | Lg. dec.  | Lg. dec.      | High   | Rare     | Poor      | Poor      |           |           | 0   | 38 |
| cucumbertree               | Magnolia acuminata      | NSL   | Low    | 12.1  | 30.8   | 2.2   | Lg. dec.  | Lg. dec.      | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 39 |
| pawpaw                     | Asimina triloba         | NSL   | Low    | 10.8  | 26.6   | 1.8   | Lg. dec.  | Lg. dec.      | Medium | Rare     | Very Poor | Very Poor |           |           | 0   | 40 |
| pitch pine                 | Pinus rigida            | NSH   | High   | 2.2   | 22.6   | 5.4   | Lg. dec.  | Very Lg. dec. | Medium | Rare     | Very Poor | Lost      |           |           | 0   | 41 |
| eastern redbud             | Cercis canadensis       | NSL   | Low    | 9.3   | 16.9   | 1.8   | Sm. inc.  | Sm. inc.      | Medium | Rare     | Fair      | Fair      |           |           | 1   | 42 |
| green ash                  | Fraxinus pennsylvanica  | WSH   | Low    | 4.7   | 13.2   | 1.0   | Lg. inc.  | Lg. inc.      | Medium | Rare     | Good      | Good      | Infill ++ | Infill ++ | 2   | 43 |
| common persimmon           | Diospyros virginiana    | NSL   | Low    | 5     | 12.4   | 2.3   | No change | Lg. inc.      | High   | Rare     | Fair      | Good      | Infill +  | Infill ++ | 1   | 44 |
| black willow               | Salix nigra             | NSH   | Low    | 3.1   | 12.1   | 3.9   | Sm. dec.  | No change     | Low    | Rare     | Very Poor | Very Poor |           |           | 0   | 45 |
| Norway spruce              | Picea abies             | NSH   | FIA    | 1     | 5.8    | 5.5   | Unknown   | Unknown       | NA     | Rare     | NNIS      | NNIS      |           |           | 0   | 46 |
| wild plum                  | Prunus americana        | NSLX  | FIA    | 1     | 5.6    | 5.3   | Unknown   | Unknown       | Medium | Rare     | FIA Only  | FIA Only  |           |           | 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  |
|-----------------------------|--------------------------------|-------|--------|-------|--------|-------|---------------|---------------|--------|---------|-------------|-------------|------------|------------|-----|----|
| Scots pine                  | <i>Pinus sylvestris</i>        | NSH   | FIA    | 0.2   | 5.3    | 0.8   | Unknown       | Unknown       | NA     | Rare    | NNIS        | NNIS        |            |            | 0   | 48 |
| serviceberry                | <i>Amelanchier</i> spp.        | NSL   | Low    | 4.1   | 4.6    | 0.6   | Sm. dec.      | Sm. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0   | 49 |
| butternut                   | <i>Juglans cinerea</i>         | NSLX  | FIA    | 2.2   | 4.0    | 0.6   | Unknown       | Unknown       | Low    | Rare    | FIA Only    | FIA Only    |            |            | 0   | 50 |
| swamp white oak             | <i>Quercus bicolor</i>         | NSL   | Low    | 2.1   | 3.7    | 1.8   | Lg. dec.      | Lg. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0   | 51 |
| eastern hemlock             | <i>Tsuga canadensis</i>        | NSH   | High   | 0.9   | 3.1    | 2.5   | No change     | No change     | Low    | Rare    | Very Poor   | Very Poor   |            |            | 2   | 52 |
| American holly              | <i>Ilex opaca</i>              | NSL   | Medium | 0.9   | 2.9    | 2.3   | Sm. dec.      | Sm. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0   | 53 |
| honeylocust                 | <i>Gleditsia triacanthos</i>   | NSH   | Low    | 1     | 2.7    | 2.6   | No change     | Lg. inc.      | High   | Rare    | Fair        | Good        |            |            | 2   | 54 |
| black ash                   | <i>Fraxinus nigra</i>          | WSH   | Medium | 1     | 2.6    | 2.5   | Lg. dec.      | Lg. dec.      | Low    | Rare    | Very Poor   | Very Poor   |            |            | 0   | 55 |
| pin oak                     | <i>Quercus palustris</i>       | NSH   | Low    | 0.5   | 2.6    | 1.1   | Sm. dec.      | No change     | Low    | Rare    | Very Poor   | Very Poor   |            |            | 2   | 56 |
| chinkapin oak               | <i>Quercus muehlenbergii</i>   | NSL   | Medium | 2.1   | 2.2    | 1.1   | Lg. inc.      | Lg. inc.      | Medium | Rare    | Good        | Good        |            |            | 2   | 57 |
| shingle oak                 | <i>Quercus imbricaria</i>      | NDH   | Medium | 0.9   | 0.8    | 0.7   | No change     | No change     | Medium | Rare    | Poor        | Poor        |            | Infill +   | 2   | 58 |
| chokecherry                 | <i>Prunus virginiana</i>       | NSLX  | FIA    | 1     | 0.8    | 0.7   | Unknown       | Unknown       | Medium | Rare    | FIA Only    | FIA Only    |            |            | 0   | 59 |
| Ohio buckeye                | <i>Aesculus glabra</i>         | NSL   | Low    | 1     | 0.6    | 0.6   | Very Lg. dec. | Very Lg. dec. | Medium | Rare    | Lost        | Lost        |            |            | 0   | 60 |
| red mulberry                | <i>Morus rubra</i>             | NSL   | Low    | 1     | 0.5    | 0.4   | Lg. inc.      | Lg. inc.      | Medium | Rare    | Good        | Good        |            |            | 2   | 61 |
| Atlantic white-cedar        | <i>Chamaecyparis thyoides</i>  | NSH   | Low    | 0     | 0      | 0     | New Habitat   | Unknown       | Low    | Absent  | New Habitat | Unknown     |            |            | 3   | 62 |
| eastern redcedar            | <i>Juniperus virginiana</i>    | WDH   | Medium | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3   | 63 |
| shortleaf pine              | <i>Pinus echinata</i>          | WDH   | High   | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate +  | Migrate ++ | 3   | 64 |
| loblolly pine               | <i>Pinus taeda</i>             | WDH   | High   | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Likely +   | Likely +   | 3   | 65 |
| florida maple               | <i>Acer barbatum</i>           | NSL   | Low    | 0     | 0      | 0     | New Habitat   | New Habitat   | High   | Absent  | New Habitat | New Habitat |            | Migrate +  | 3   | 66 |
| striped maple               | <i>Acer pensylvanicum</i>      | NSL   | Medium | 0     | 0      | 0     | Unknown       | Unknown       | Medium | Absent  | Unknown     | Unknown     |            |            | 0   | 67 |
| mountain maple              | <i>Acer spicatum</i>           | NSL   | Low    | 0     | 0      | 0     | Unknown       | New Habitat   | High   | Absent  | Unknown     | New Habitat |            |            | 3   | 68 |
| pecan                       | <i>Carya illinoensis</i>       | NSH   | Low    | 0     | 0      | 0     | New Habitat   | New Habitat   | Low    | Absent  | New Habitat | New Habitat |            | Migrate +  | 3   | 69 |
| black hickory               | <i>Carya texana</i>            | NDL   | High   | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat |            |            | 0   | 70 |
| sugarberry                  | <i>Celtis laevigata</i>        | NDH   | Medium | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat |            | Migrate +  | 3   | 71 |
| sweetgum                    | <i>Liquidambar styraciflua</i> | WDH   | High   | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate +  | Migrate +  | 3   | 72 |
| mountain or Fraser magnolia | <i>Magnolia fraseri</i>        | NSL   | Low    | 0     | 0      | 0     | Unknown       | Unknown       | Low    | Absent  | Unknown     | Unknown     |            |            | 0   | 73 |
| pin cherry                  | <i>Prunus pensylvanica</i>     | NSL   | Low    | 0     | 0      | 0     | Unknown       | Unknown       | Medium | Modeled | Unknown     | Unknown     |            |            | 0   | 74 |
| southern red oak            | <i>Quercus falcata</i>         | WDL   | Medium | 0     | 0      | 0     | New Habitat   | New Habitat   | High   | Absent  | New Habitat | New Habitat | Migrate +  | Migrate ++ | 3   | 75 |
| blackjack oak               | <i>Quercus marilandica</i>     | NSL   | Medium | 0     | 0      | 0     | New Habitat   | New Habitat   | High   | Absent  | New Habitat | New Habitat |            | Migrate ++ | 3   | 76 |
| post oak                    | <i>Quercus stellata</i>        | WDH   | High   | 0     | 0      | 0     | New Habitat   | New Habitat   | High   | Absent  | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3   | 77 |
| bluejack oak                | <i>Quercus incana</i>          | NSL   | Low    | 0     | 0      | 0     | Unknown       | New Habitat   | Medium | Absent  | Unknown     | New Habitat |            |            | 3   | 78 |
| winged elm                  | <i>Ulmus alata</i>             | WDL   | Medium | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate +  | Migrate ++ | 3   | 79 |