#### **U.S. Census Bureau Urban Areas**

Climate Change Atlas Tree Species

Current and Potential Future Habitat, Capability, and Migration

USDA Forest Service Northern Research Station Landscape Change Research Group Iverson, Peters, Prasad, Matthews

 sq. km
 sq. mi
 FIA Plots

 Area of Region
 8,600.0
 3,320.5
 205

#### **Species Information**

GFDL85

HAD45

HAD85

CCSM85

GFDL85

HAD45

HAD85

CCSM45

CCSM85

GFDL85

HAD45

HAD85

CCSM85

GFDL85

HAD45

HAD85

44.0

82.9

82.9

82.9

82.9

82.9

82.9

46.0

84.4

84.5

87.2

86.6

87.1

87.7

47.5

84.8

85.5

87.0

88.1

88.7

91.0

Growing CCSM45

May—Sep GFDL45

Average GFDL45

Warmest CCSM45

Average GFDL45

Season

Coldest

Month

Month

The columns below provide breif 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  |      |        |        |          |             |            | Potent        | ial Change | in Habitat S | uitability | Capability | Migration Potential |          |         |       |       |
|--|----------|------|--------|--------|----------|-------------|------------|---------------|------------|--------------|------------|------------|---------------------|----------|---------|-------|-------|
| Ash                                    | 2        |      |        |        |          | Model       |            |               | Scenario   | Scenario     |            |            | Scenario            | Scenario |         | SHIFT | SHIFT |
| Hickory                                | 8        |      | Abu    | ndance |          | Reliability | Adaptabili | ty            | RCP45      | RCP85        |            |            | RCP45               | RCP85    |         | RCP45 | RCP85 |
| Maple                                  | 2        | Abı  | undant | 3      | High     | 14          | 21         | Increase      | 29         | 32           | ١          | /ery Good  | 9                   | 11       | Likely  | 2     | 1     |
| Oak                                    | 14       | Co   | ommon  | 22     | Medium   | 33          | 46         | No Change     | 15         | 16           |            | Good       | 18                  | 17       | Infill  | 15    | 17    |
| Pine                                   | 3        |      | Rare   | 37     | Low      | 31          | 11         | Decrease      | 18         | 14           |            | Fair       | 10                  | 15       | Migrate | 3     | 3     |
| Other                                  | 33       |      | Absent | 13     | FIA      | 0           |            | New           | 10         | 8            |            | Poor       | 13                  | 6        |         | 20    | 21    |
|  | 62       |      | _      | 75     |          | 78          | 78         | Unknowr       | 6          | 8            |            | Very Poor  | 12                  | 12       |         |       |       |
|  |          |      |        |        |          |             |            |               | 78         | 78           |            | FIA Only   | 0                   | 0        |         |       |       |
|  |          |      |        |        |          |             |            |               |            |              |            | Unknown    | 6                   | 8        |         |       |       |
| Potential Changes in Climate Variables |          |      |        |        |          |             |            |               |            |              | 68         | 69         |                     |          |         |       |       |
| Temperatu                              | re (°F)  |      |        |        |          |             | Precipitat | ion (in)      |            |              |            |            |                     |          |         |       |       |
|  | Scenario | 2009 | 2039   | 2069   | 2099     |             |            | Scenario 2009 | 2039       | 2069         | 2099       |            |                     |          |         |       |       |
| Annual                                 | CCSM45   | 64.5 | 66.2   | 68.0   | 68.3 🛶 🔶 |             | Annual     | CCSM45 56.4   | 57.8       | 63.8         | 61.5 +++++ |            |                     |          |         |       |       |
| Average                                | CCSM85   | 64.5 | 66.5   | 68.9   | 71.4     |             | Total      | CCSM85 56.4   | 59.0       | 62.4         | 64.3 ++++  |            |                     |          |         |       |       |
|  | GFDL45   | 64.5 | 68.1   | 68.8   | 69.8     |             |            | GFDL45 56.4   | 60.6       | 69.3         | 64.1 +++++ |            |                     |          |         |       |       |

| 64.5 | 66.5 | 68.9 | 71.4     | Total       | CCSM85       | 56.4      |
|------|------|------|----------|-------------|--------------|-----------|
| 64.5 | 68.1 | 68.8 | 69.8     |             | GFDL45       | 56.4      |
| 64.5 | 67.2 | 70.2 | 73.6     |             | GFDL85       | 56.4      |
| 64.5 | 66.9 | 69.9 | 70.9     |             | HAD45        | 56.4      |
| 64.5 | 67.3 | 71.4 | 75.1     |             | HAD85        | 56.4      |
| 78.3 | 79.9 | 81.3 | 81.8     | Growing     | CCSM45       | 20.3      |
| 78.3 | 80.2 | 82.5 | 85.6     | Season      | CCSM85       | 20.3      |
| 78.3 | 82.6 | 83.0 | 85.0     | May—Sep     | GFDL45       | 20.3      |
| 78.3 | 81.6 | 84.8 | 89.0     |             | GFDL85       | 20.3      |
| 78.3 | 81.5 | 84.4 | 84.9     |             | HAD45        | 20.3      |
| 78.3 | 81.8 | 87.5 | 90.7     |             | HAD85        | 20.3      |
| 44.0 | 46.4 | 47.4 | 47.5     |             |              |           |
| 44.0 | 46.6 | 47.9 | 49.2 🔸 🔶 | NOTE: For   | the six clim | ate varia |
| 44.0 | 47.6 | 47.6 | 47.6 🖌 🔶 | ending in 2 | 009 is base  | ed on mo  |
| 44.0 | 45.3 | 46.3 | 46.8 🛶 🔶 | obtained f  | rom the NA   | SA NEX-   |
| 44.0 | 44.9 | 46.6 | 47.4     | show estin  | nates of eac | ch climat |

49.3

85.0

87.1

90.9

88.6

91.9

.3 20.3 21.4 20.6 ++++ .3 19.2 19.3 19.3 ++++ 23.7 +---.3 22.3 27.1 25.4 .3 23.2 24.7 .3 19.5 19.8 19.2 + + + + 19.8 15.8 🛶 .3 15.5 ariables, four 30-year periods are used to indicate six potential future trajectories. The period modeled observations from the PRISM Climate Group and the three future periods were

62.7

56.6

51.3

60.1

55.1

58.0

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.

64.6

60.6

56.2 ++++++

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Climate Change Atlas Tree Species

USDA Forest Service Northern Research Station Landscape Change Research Group Iverson, Peters, Prasad, Matthews

Current and Potential Future Habitat, Capability, and Migration

|                          |                         |       | 00     | ene   |            |                | nubitut, cu | ipublity, | unu wiigi | ation     |           |           | iverson, Pe | ters, Prasad, I |
|--------------------------|-------------------------|-------|--------|-------|------------|----------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------------|
| 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   | 73.3  | 2495.7     | 40.5 No change | No change   | Medium    | Abundant  | Good      | Good      |           |             | 1 1             |
| sweetgum                 | Liquidambar styraciflua | WDH   | High   | 70.9  | 547.6      | 9.0 Sm. inc.   | Sm. inc.    | Medium    | Abundant  | Very Good | Very Good |           |             | 1 2             |
| willow oak               | Quercus phellos         | NSL   | Low    | 50    | 511.0      | 16.0 Sm. dec.  | Sm. dec.    | Medium    | Abundant  | Fair      | Fair      |           |             | 0 3             |
| water oak                | Quercus nigra           | WDH   | High   | 76.7  | 424.9      | 7.1 Lg. inc.   | Lg. inc.    | Medium    | Common    | Very Good | Very Good |           |             | 1 4             |
| overcup oak              | Quercus lyrata          | NSL   | Medium | 44.2  | 262.4      | 10.5 No change | No change   | Low       | Common    | Poor      | Poor      |           |             | 0 5             |
| shortleaf pine           | Pinus echinata          | WDH   | High   | 31.4  | 243.2      | 7.8 No change  | Sm. inc.    | Medium    | Common    | Fair      | Good      |           |             | 1 6             |
| southern red oak         | Quercus falcata         | WDL   | Medium | 47.7  | 237.1      | 5.5 Sm. inc.   | Sm. inc.    | High      | Common    | Very Good | Very Good |           |             | 1 7             |
| white oak                | Quercus alba            | WDH   | Medium | 46.5  | 232.7      | 5.4 Sm. dec.   | No change   | High      | Common    | Fair      | Good      |           |             | 1 8             |
| cherrybark oak; swamp re | d o Quercus pagoda      | NSL   | Medium | 41.9  | 198.7      | 5.2 No change  | No change   | Medium    | Common    | Fair      | Fair      |           |             | 1 9             |
| bald cypress             | Taxodium distichum      | NSH   | Medium | 12.8  | 181.3      | 14.2 Sm. inc.  | Sm. inc.    | Medium    | Common    | Good      | Good      |           |             | 1 10            |
| winged elm               | Ulmus alata             | WDL   | Medium | 69.8  | 165.3      | 3.6 Sm. inc.   | Sm. inc.    | Medium    | Common    | Good      | Good      |           |             | 1 11            |
| green ash                | Fraxinus pennsylvanica  | WSH   | Low    | 48.8  | 128.3      | 4.9 Sm. inc.   | Lg. inc.    | Medium    | Common    | Good      | Very Good |           |             | 1 12            |
| blackgum                 | Nyssa sylvatica         | WDL   | Medium | 38.4  | 127.4      | 3.3 Sm. inc.   | Lg. inc.    | High      | Common    | Very Good | Very Good |           |             | 1 13            |
| red maple                | Acer rubrum             | WDH   | High   | 50    | 124.5      | 2.9 Sm. inc.   | Sm. inc.    | High      | Common    | Very Good | Very Good |           |             | 1 14            |
| water hickory            | Carya aquatica          | NSL   | Medium | 23.3  | 124.1      | 8.6 No change  | No change   | Medium    | Common    | Fair      | Fair      |           |             | 1 15            |
| American elm             | Ulmus americana         | WDH   | Medium | 40.7  | 114.9      | 4.6 Sm. inc.   | Lg. inc.    | Medium    | Common    | Good      | Very Good |           |             | 1 16            |
| Nuttall oak              | Quercus texana          | NSH   | Medium | 18.6  | 110.4      | 10.2 No change | No change   | High      | Common    | Good      | Good      |           |             | 0 17            |
| sugarberry               | Celtis laevigata        | NDH   | Medium | 39.5  | 102.0      | 6.1 Lg. inc.   | Lg. inc.    | Medium    | Common    | Very Good | Very Good |           |             | 1 18            |
| American beech           | Fagus grandifolia       | WDH   | High   | 16.3  | 93.5       | 5.8 Sm. inc.   | No change   | Medium    | Common    | Good      | Fair      | Infill ++ | Infill +    | 1 19            |
| eastern hophornbeam; iro |                         | WSL   | Low    | 31.4  | 80.1       | 2.9 No change  | No change   | High      | Common    | Good      | Good      |           |             | 1 20            |
| cedar elm                | Ulmus crassifolia       | NDH   | Medium | 26.7  | 67.3       | 5.1 Lg. inc.   | Lg. inc.    | Low       | Common    | Good      | Good      | Infill ++ | Infill ++   | 1 21            |
| mockernut hickory        | Carya alba              | WDL   | Medium | 36    | 66.3       | 2.4 Sm. inc.   | Lg. inc.    | High      | Common    | Very Good | Very Good |           |             | 1 22            |
| American hornbeam; mus   | ,                       | WSL   | Low    | 26.7  | 60.7       | 2.6 Lg. inc.   | Lg. inc.    | Medium    | Common    | Very Good | Very Good |           |             | 1 23            |
| black cherry             | Prunus serotina         | WDL   | Medium | 34.9  | 60.4       | 2.2 No change  | Sm. inc.    | Low       | Common    | Poor      | ,<br>Fair |           |             | 1 24            |
| post oak                 | Quercus stellata        | WDH   | High   | 33.7  | 55.5       | 2.7 Lg. inc.   | Lg. inc.    | High      | Common    | Very Good | Very Good |           |             | 1 25            |
| honeylocust              | Gleditsia triacanthos   | NSH   | Low    | 16.3  | 43.8       | 7.0 Sm. inc.   | Lg. inc.    | High      | Rare      | Good      | Good      | Infill ++ | Infill ++   | 1 26            |
| flowering dogwood        | Cornus florida          | WDL   | Medium | 33.7  | 41.9       | 1.4 Sm. inc.   | Sm. inc.    | Medium    | Rare      | Fair      | Fair      |           |             | 1 27            |
| common persimmon         | Diospyros virginiana    | NSL   | Low    | 27.9  | 39.3       | 3.7 Sm. inc.   | Lg. inc.    | High      | Rare      | Good      | Good      |           |             | 1 28            |
| water tupelo             | Nyssa aquatica          | NSH   | Medium | 5.8   | 37.2       | 6.4 No change  | No change   | Low       | Rare      | Very Poor | Very Poor |           |             | 2 29            |
| black willow             | Salix nigra             | NSH   | Low    | 17.4  | 25.7       | 5.1 Lg. inc.   | Lg. inc.    | Low       | Rare      | Fair      | Fair      | Infill +  | Infill +    | 1 30            |
| Shumard oak              | Quercus shumardii       | NSL   | Low    | 5.8   | 23.9       | 4.1 Sm. dec.   | No change   | High      | Rare      | Poor      | Fair      |           | Infill +    | 2 31            |
| swamp chestnut oak       | Quercus michauxii       | NSL   | Low    | 8.1   | 22.9       | 2.8 No change  | No change   | Medium    | Rare      | Poor      | Poor      |           |             | 1 32            |
| pignut hickory           | Carya glabra            | WDL   | Medium | 10.5  | 21.6       | 2.1 Sm. dec.   | Sm. dec.    | Medium    | Rare      | Very Poor | Very Poor |           |             | 0 33            |
| American holly           | llex opaca              | NSL   | Medium | 14    | 21.4       | 1.5 Lg. inc.   | Lg. inc.    | Medium    |           | Good      | Good      |           |             | 1 34            |
| water elm                | Planera aquatica        | NSL   | Low    | 1.2   | 16.7       | 14.4 No change | No change   | Medium    |           | Poor      | Poor      | Infill +  | Infill +    | 2 35            |
| slash pine               | Pinus elliottii         | NDH   | High   | 3.5   | 16.5       | 4.7 Lg. inc.   | Lg. inc.    | Medium    |           | Good      | Good      | Infill ++ | Infill ++   | 2 36            |
| sassafras                | Sassafras albidum       | WSL   | Low    | 12.8  | 16.5       | 1.3 Lg. inc.   | Lg. inc.    | Medium    |           | Good      | Good      | Infill ++ | Infill ++   | 1 37            |
| swamp white oak          | Quercus bicolor         | NSL   | Low    | 3.5   | 15.7       | 4.5 Sm. dec.   | Sm. dec.    | Medium    |           | Very Poor | Very Poor |           |             | 0 38            |
| black oak                | Quercus velutina        | WDH   | High   | 15.1  | 15.5       | 1.4 Lg. dec.   | Lg. dec.    | Medium    |           | Very Poor | Very Poor |           |             | 0 39            |
| sweetbay                 | Magnolia virginiana     | NSL   | Medium | 9.3   | 14.2       | 1.5 Sm. inc.   | Sm. inc.    | Medium    |           | Fair      | Fair      | Infill +  | Infill +    | 1 40            |
| black locust             | Robinia pseudoacacia    | NDH   | Low    | 1.2   | 14.2       | 9.8 Sm. dec.   | Sm. dec.    | Medium    |           | Very Poor | Very Poor |           |             | 0 41            |
| eastern redcedar         | Juniperus virginiana    | WDH   | Medium | 5.8   | 10.9       | 1.9 No change  | Sm. inc.    | Medium    |           | Poor      | Fair      | Infill +  | Infill +    | 2 42            |
| laurel oak               | Quercus laurifolia      | NDH   | Medium | 3.5   | 9.5        | 2.7 Lg. inc.   | Lg. inc.    | Medium    |           | Good      | Good      | Infill ++ | Infill ++   | 2 42            |
| white ash                | Fraxinus americana      | WDL   | Medium | 9.3   | 9.2        | 1.0 Sm. dec.   | No change   | Low       | Rare      | Very Poor | Very Poor |           |             | 0 44            |
| eastern cottonwood       | Populus deltoides       | NSH   | Low    | 4.7   | 9.2        | 31.6 Sm. dec.  | Sm. dec.    | Medium    |           | Very Poor | Very Poor |           |             | 0 44            |
| slippery elm             | Ulmus rubra             | WSL   | Low    | 4.7   | 9.2<br>7.3 | 2.2 Lg. inc.   | Lg. inc.    | Medium    | Rare      | Good      | Good      | Infill ++ | Infill ++   | 1 46            |
| black hickory            |                         | NDL   |        | 18.6  | 7.3        |                |             |           |           | Poor      |           | Infill +  | Infill +    | 2 47            |
| DIACK HICKOTY            | Carya texana            | NDL   | High   | 1.2   | 7.2        | 6.2 No change  | Sm. inc.    | Medium    | Rare      | 1004      | Fair      | 111111 +  | 111111 +    | 2 47            |



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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 |
|------------------------|-----------------------------|-------|--------|-------|-------------|-------|---------------|---------------|--------|---------|-------------|-------------|------------|------------|-------|
| blackjack oak          | Quercus marilandica         | NSL   | Medium | 3.5   | <b>7</b> .1 | L 2.0 | ) Lg. inc.    | Lg. inc.      | High   | Rare    | Good        | Good        | Infill ++  | Infill ++  | 2 48  |
| shellbark hickory      | Carya laciniosa             | NSL   | Low    | 1.2   | 5.9         | 5.1   | L Sm. dec.    | Sm. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0 49  |
| red mulberry           | Morus rubra                 | NSL   | Low    | 5.8   | 3 4.7       | 7 0.8 | B Lg. dec.    | Sm. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0 50  |
| pecan                  | Carya illinoinensis         | NSH   | Low    | 1.2   | 4.2         | 2 3.6 | 5 Lg. inc.    | Lg. inc.      | Low    | Rare    | Fair        | Fair        | Infill +   | Infill +   | 2 51  |
| pin cherry             | Prunus pensylvanica         | NSL   | Low    | 3.5   | 3.7         | 7 1.1 | L Sm. dec.    | Sm. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0 52  |
| bitternut hickory      | Carya cordiformis           | WSL   | Low    | 2.3   | 3.5         | 5 1.5 | 5 Sm. dec.    | Sm. dec.      | High   | Rare    | Poor        | Poor        |            |            | 0 53  |
| sourwood               | Oxydendrum arboreum         | NDL   | High   | 2.3   | 2.9         | 9 1.3 | 3 Sm. dec.    | Sm. dec.      | High   | Rare    | Poor        | Poor        |            |            | 0 54  |
| yellow-poplar          | Liriodendron tulipifera     | WDH   | High   | 1.2   | 2.9         | 9 2.5 | 5 Sm. dec.    | No change     | High   | Rare    | Poor        | Fair        |            |            | 0 55  |
| sycamore               | Platanus occidentalis       | NSL   | Low    | 1.2   | 2.3         | 3 2.0 | No change     | Sm. dec.      | Medium | Rare    | Poor        | Very Poor   |            |            | 0 56  |
| shagbark hickory       | Carya ovata                 | WSL   | Medium | 1.2   | 2.3         | 3 2.0 | ) Sm. dec.    | Sm. dec.      | Medium | Rare    | Very Poor   | Very Poor   |            |            | 0 57  |
| river birch            | Betula nigra                | NSL   | Low    | 1.2   | 2 1.7       | 7 1.5 | 5 Lg. inc.    | Lg. inc.      | Medium | Rare    | Good        | Good        |            |            | 2 58  |
| boxelder               | Acer negundo                | WSH   | Low    | 1.2   | 2 1.2       | 2 1.1 | L Sm. dec.    | No change     | High   | Rare    | Poor        | Fair        |            | Infill +   | 2 59  |
| American basswood      | Tilia americana             | WSL   | Medium | 1.2   | 0.7         | 7 0.6 | 5 Lg. dec.    | Very Lg. dec. | Medium | Rare    | Very Poor   | Lost        |            |            | 0 60  |
| serviceberry           | Amelanchier spp.            | NSL   | Low    | 1.2   | 2.0.5       | 5 0.4 | 1 No change   | No change     | Medium | Rare    | Poor        | Poor        |            |            | 0 61  |
| swamp tupelo           | Nyssa biflora               | NDH   | Medium | 1.2   | 2 0.4       | 1 0.4 | Lg. inc.      | Lg. inc.      | Low    | Rare    | Fair        | Fair        | Infill +   | Infill +   | 2 62  |
| Atlantic white-cedar   | Chamaecyparis thyoides      | NSH   | Low    | C     | ) (         | ) (   | ) Unknown     | Unknown       | Low    | Modeled | Unknown     | Unknown     |            |            | 0 63  |
| longleaf pine          | Pinus palustris             | NSH   | Medium | C     | ) (         | ) (   | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 64  |
| pond pine              | Pinus serotina              | NSH   | Medium | C     | ) (         | ) (   | ) Unknown     | Unknown       | Low    | Modeled | Unknown     | Unknown     |            |            | 0 65  |
| florida maple          | Acer barbatum               | NSL   | Low    | C     | ) (         | ) (   | ) Unknown     | Unknown       | High   | Modeled | Unknown     | Unknown     |            |            | 0 66  |
| striped maple          | Acer pensylvanicum          | NSL   | Medium | C     | ) (         | ) (   | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat |            |            | 3 67  |
| sugar maple            | Acer saccharum              | WDH   | High   | C     | ) (         | ) (   | ) Unknown     | Unknown       | High   | Absent  | Unknown     | Unknown     |            |            | 0 68  |
| cittamwood/gum bumelia | Sideroxylon lanuginosum ssp | . NSL | Low    | C     | ) (         | ) (   | New Habitat   | New Habitat   | High   | Absent  | New Habitat | New Habitat | Likely +   | Likely +   | 3 69  |
| black ash              | Fraxinus nigra              | WSH   | Medium | C     | ) (         | ) (   | New Habitat   | Unknown       | Low    | Absent  | New Habitat | Unknown     |            |            | 3 70  |
| silverbell             | Halesia spp.                | NSL   | Low    | C     | ) (         | ) (   | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat |            |            | 3 71  |
| southern magnolia      | Magnolia grandiflora        | NSL   | Low    | C     | ) (         | ) (   | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 72  |
| bigleaf magnolia       | Magnolia macrophylla        | NSL   | Low    | C     | ) (         | ) (   | New Habitat   | Unknown       | Medium | Absent  | New Habitat | Unknown     | Likely +   |            | 3 73  |
| redbay                 | Persea borbonia             | NSL   | Low    | C     | ) (         | ) (   | New Habitat   | New Habitat   | High   | Absent  | New Habitat | New Habitat |            |            | 3 74  |
| scarlet oak            | Quercus coccinea            | WDL   | Medium | C     | ) (         | ) (   | New Habitat   | New Habitat   | Medium | Absent  | New Habitat | New Habitat |            |            | 3 75  |
| chinkapin oak          | Quercus muehlenbergii       | NSL   | Medium | C     | ) (         | ) (   | ) Unknown     | Unknown       | Medium | Absent  | Unknown     | Unknown     |            |            | 0 76  |
| northern red oak       | Quercus rubra               | WDH   | Medium | C     | ) (         | ) (   | ) Unknown     | Unknown       | High   | Absent  | Unknown     | Unknown     |            |            | 0 77  |
| live oak               | Quercus virginiana          | NDH   | High   | C     | ) (         | ) (   | ) New Habitat | New Habitat   | Medium | Absent  | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 78  |
|                        |                             |       |        |       |             |       |               |               |        |         |             |             |            |            |       |

