

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 | 35.5 | 742.4 | 13.7 | Sm. dec. | Sm. dec. | High | Abundant | Good | Good | Infill ++ | Infill ++ | 1 | 1 |
| red pine | Pinus resinosa | NSH | Medium | 36 | 723.1 | 14.1 | Sm. dec. | Sm. dec. | Low | Abundant | Fair | Fair | | | 0 | 2 |
| red maple | Acer rubrum | WDH | High | 65 | 650.2 | 7.7 | No change | No change | High | Abundant | Very Good | Very Good | | | 1 | 3 |
| quaking aspen | Populus tremuloides | WDH | High | 53.6 | 511.4 | 6.8 | No change | No change | Medium | Abundant | Good | Good | | | 1 | 4 |
| green ash | Fraxinus pennsylvanica | WSH | Low | 45.7 | 508.8 | 13.7 | No change | Sm. inc. | Medium | Abundant | Good | Very Good | | | 1 | 5 |
| eastern white pine | Pinus strobus | WDH | High | 44.8 | 505.4 | 9.4 | Sm. dec. | Sm. dec. | Low | Abundant | Fair | Fair | | | 0 | 6 |
| northern white-cedar | Thuja occidentalis | WSH | High | 29.4 | 356.2 | 9.4 | Sm. dec. | Sm. dec. | Medium | Common | Poor | Poor | | | 0 | 7 |
| tamarack (native) | Larix laricina | NSH | High | 27.1 | 349.9 | 9.5 | Sm. dec. | Lg. dec. | Low | Common | Poor | Very Poor | | | 0 | 8 |
| American basswood | Tilia americana | WSL | Medium | 46.8 | 330.4 | 5.9 | No change | No change | Medium | Common | Fair | Fair | | | 1 | 9 |
| black oak | Quercus velutina | WDH | High | 24.1 | 311.1 | 8.8 | Sm. inc. | Sm. inc. | Medium | Common | Good | Good | Infill ++ | Infill ++ | 1 | 10 |
| black cherry | Prunus serotina | WDL | Medium | 69 | 302.3 | 3.6 | Lg. inc. | Sm. inc. | Low | Common | Good | Fair | | | 1 | 11 |
| American elm | Ulmus americana | WDH | Medium | 72.9 | 291.5 | 3.7 | Sm. inc. | Sm. inc. | Medium | Common | Good | Good | | | 1 | 12 |
| white oak | Quercus alba | WDH | Medium | 37.9 | 282.8 | 6.5 | Sm. inc. | Sm. inc. | High | Common | Very Good | Very Good | Infill ++ | Infill ++ | 1 | 13 |
| black ash | Fraxinus nigra | WSH | Medium | 42.2 | 262.5 | 5.1 | Sm. dec. | Sm. dec. | Low | Common | Poor | Poor | | | 0 | 14 |
| balsam fir | Abies balsamea | NDH | High | 26.7 | 251.4 | 5.5 | Lg. dec. | Lg. dec. | Low | Common | Very Poor | Very Poor | | | 0 | 15 |
| northern red oak | Quercus rubra | WDH | Medium | 44.2 | 247.5 | 4.5 | Sm. inc. | Sm. inc. | High | Common | Very Good | Very Good | | | 1 | 16 |
| boxelder | Acer negundo | WSH | Low | 32.1 | 240.1 | 6.6 | No change | No change | High | Common | Good | Good | | | 1 | 17 |
| northern pin oak | Quercus ellipsoidalis | NSH | Medium | 23.9 | 216.0 | 6.8 | Sm. inc. | No change | High | Common | Very Good | Good | Infill ++ | Infill ++ | 1 | 18 |
| eastern hemlock | Tsuga canadensis | NSH | High | 23.1 | 190.6 | 5.6 | Lg. dec. | Lg. dec. | Low | Common | Very Poor | Very Poor | | | 0 | 19 |
| white ash | Fraxinus americana | WDL | Medium | 40.6 | 176.9 | 3.8 | Sm. inc. | Sm. inc. | Low | Common | Fair | Fair | | | 1 | 20 |
| paper birch | Betula papyrifera | WDH | High | 40 | 168.7 | 2.9 | Sm. inc. | No change | Medium | Common | Good | Fair | | | 1 | 21 |
| bur oak | Quercus macrocarpa | NDH | Medium | 28.2 | 168.4 | 5.5 | Sm. inc. | Sm. inc. | High | Common | Very Good | Very Good | Infill ++ | Infill ++ | 1 | 22 |
| silver maple | Acer saccharinum | NSH | Low | 10.8 | 131.9 | 10.2 | Lg. inc. | Lg. inc. | High | Common | Very Good | Very Good | Infill ++ | Infill ++ | 1 | 23 |
| white spruce | Picea glauca | NSL | Medium | 19.3 | 130.9 | 5.4 | Lg. dec. | Lg. dec. | Medium | Common | Poor | Poor | | | 0 | 24 |
| yellow birch | Betula alleghaniensis | NDL | High | 28.5 | 112.9 | 2.6 | Lg. dec. | Lg. dec. | Medium | Common | Poor | Poor | | | 0 | 25 |
| bigtooth aspen | Populus grandidentata | NSL | Medium | 20.6 | 110.4 | 3.3 | Sm. inc. | Sm. inc. | Medium | Common | Good | Good | | | 1 | 26 |
| Scots pine | Pinus sylvestris | NSH | FIA | 10.6 | 104.1 | 8.1 | Unknown | Unknown | NA | Common | NNIS | NNIS | | | 0 | 27 |
| black willow | Salix nigra | NSH | Low | 12.8 | 103.6 | 16.4 | Lg. dec. | Sm. dec. | Low | Common | Very Poor | Poor | | Infill + | 2 | 28 |
| jack pine | Pinus banksiana | NSH | Medium | 9.7 | 92.8 | 5.5 | Sm. dec. | Sm. dec. | High | Common | Fair | Fair | Infill + | Infill + | 1 | 29 |
| shagbark hickory | Carya ovata | WSL | Medium | 25.1 | 87.1 | 5.3 | Sm. inc. | No change | Medium | Common | Good | Fair | Infill ++ | Infill + | 1 | 30 |
| eastern cottonwood | Populus deltoides | NSH | Low | 6.3 | 86.7 | 8.5 | No change | No change | Medium | Common | Fair | Fair | Infill + | Infill + | 2 | 31 |
| black spruce | Picea mariana | NSH | High | 13.4 | 79.0 | 2.7 | Lg. dec. | Lg. dec. | Medium | Common | Poor | Poor | Infill + | Infill + | 0 | 32 |
| black locust | Robinia pseudoacacia | NDH | Low | 7.4 | 74.7 | 11.4 | No change | No change | Medium | Common | Fair | Fair | Infill + | Infill + | 1 | 33 |
| eastern redcedar | Juniperus virginiana | WDH | Medium | 10.9 | 73.8 | 6.0 | Lg. inc. | Lg. inc. | Medium | Common | Very Good | Very Good | Infill ++ | Infill ++ | 2 | 34 |
| bitternut hickory | Carya cordiformis | WDL | Low | 18.2 | 50.4 | 2.6 | No change | No change | High | Common | Good | Good | Infill ++ | Infill ++ | 1 | 35 |
| eastern hophornbeam; ironw | Ostrya virginiana | WSL | Low | 23.7 | 49.3 | 1.3 | Lg. inc. | Lg. inc. | High | Rare | Good | Good | | | 1 | 36 |
| American beech | Fagus grandifolia | WDH | High | 7.3 | 34.0 | 3.7 | No change | No change | Medium | Rare | Poor | Poor | Infill + | Infill + | 2 | 37 |
| river birch | Betula nigra | NSL | Low | 0.7 | 29.9 | 6.1 | Lg. dec. | Lg. dec. | Medium | Rare | Very Poor | Very Poor | | | 0 | 38 |
| slippery elm | Ulmus rubra | WSL | Low | 11.7 | 27.9 | 2.6 | No change | No change | Medium | Rare | Poor | Poor | Infill + | Infill + | 1 | 39 |
| Siberian elm | Ulmus pumila | NDH | FIA | 2.9 | 23.9 | 8.1 | Unknown | Unknown | NA | Rare | NNIS | NNIS | | | 0 | 40 |
| swamp white oak | Quercus bicolor | NSL | Low | 5.2 | 22.2 | 4.5 | No change | Sm. inc. | Medium | Rare | Poor | Fair | Infill + | Infill + | 2 | 41 |
| butternut | Juglans cinerea | NSLX | FIA | 2.3 | 16.8 | 2.6 | Unknown | Unknown | Low | Rare | FIA Only | FIA Only | | | 0 | 42 |
| hackberry | Celtis occidentalis | WDH | Medium | 1.8 | 15.0 | 8.5 | Sm. inc. | Sm. inc. | High | Rare | Good | Good | | | 2 | 43 |
| honeylocust | Gleditsia triacanthos | NSH | Low | 1.2 | 11.6 | 9.9 | No change | No change | High | Rare | Fair | Fair | Infill + | Infill + | 2 | 44 |
| Norway spruce | Picea abies | NSH | FIA | 4.7 | 10.6 | 4.8 | Unknown | Unknown | NA | Rare | NNIS | NNIS | | | 0 | 45 |
| pin cherry | Prunus pensylvanica | NSL | Low | 11.8 | 8.8 | 0.7 | Very Lg. dec. | Very Lg. dec. | Medium | Rare | Lost | Lost | | | 0 | 46 |
| chokecherry | Prunus virginiana | NSLX | FIA | 11.8 | 7.9 | 0.6 | Unknown | Unknown | Medium | Rare | FIA Only | FIA Only | | | 0 | 47 |

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|----------------------------|------------------------------|-------|--------|-------|--------|-------|---------------|---------------|--------|--------|-------------|-------------|-----------|-----------|-----|----|
| red mulberry | Morus rubra | NSL | Low | 1.9 | 5.7 | 2.0 | No change | Sm. dec. | Medium | Rare | Poor | Very Poor | Infill + | | 2 | 48 |
| American hornbeam; musclev | Carpinus caroliniana | WSL | Low | 5.6 | 5.5 | 0.5 | Sm. dec. | Sm. dec. | Medium | Rare | Very Poor | Very Poor | | | 0 | 49 |
| black walnut | Juglans nigra | WDH | Low | 2.7 | 5.3 | 1.7 | Lg. inc. | Lg. inc. | Medium | Rare | Good | Good | Infill ++ | Infill ++ | 2 | 50 |
| rock elm | Ulmus thomasii | NSLX | FIA | 4.2 | 4.8 | 1.4 | Unknown | Unknown | Low | Rare | FIA Only | FIA Only | | | 0 | 51 |
| serviceberry | Amelanchier spp. | NSL | Low | 4.6 | 4.6 | 0.3 | Very Lg. dec. | Very Lg. dec. | Medium | Rare | Lost | Lost | | | 0 | 52 |
| peachleaf willow | Salix amygdaloides | NSLX | FIA | 0.8 | 4.5 | 2.3 | Unknown | Unknown | Medium | Rare | FIA Only | FIA Only | | | 0 | 53 |
| balsam poplar | Populus balsamifera | NSH | Medium | 5.5 | 4.3 | 0.5 | Very Lg. dec. | Very Lg. dec. | Medium | Rare | Lost | Lost | | | 0 | 54 |
| white mulberry | Morus alba | NSL | FIA | 1.2 | 1.2 | 1.0 | Unknown | Unknown | NA | Rare | NNIS | NNIS | | | 0 | 55 |
| striped maple | Acer pensylvanicum | NSL | Medium | 0 | 0 | 0 | Unknown | Unknown | Medium | Absent | Unknown | Unknown | | | 0 | 56 |
| mountain maple | Acer spicatum | NSL | Low | 0 | 0 | 0 | Unknown | Unknown | High | Absent | Unknown | Unknown | | | 0 | 57 |
| Ohio buckeye | Aesculus glabra | NSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 3 | 58 |
| cittamwood/gum bumelia | Sideroxylon lanuginosum ssp. | NSL | Low | 0 | 0 | 0 | Unknown | New Habitat | High | Absent | Unknown | New Habitat | | | 0 | 59 |
| pignut hickory | Carya glabra | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 60 |
| black hickory | Carya texana | NDL | High | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 3 | 61 |
| mockernut hickory | Carya alba | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | Migrate + | 3 | 62 |
| sugarberry | Celtis laevigata | NDH | Medium | 0 | 0 | 0 | Unknown | New Habitat | Medium | Absent | Unknown | New Habitat | | | 0 | 63 |
| eastern redbud | Cercis canadensis | NSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | Migrate + | 3 | 64 |
| Osage-orange | Maclura pomifera | NDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 65 |
| bigleaf magnolia | Magnolia macrophylla | NSL | Low | 0 | 0 | 0 | Unknown | Unknown | Medium | Absent | Unknown | Unknown | | | 0 | 66 |
| blackgum | Nyssa sylvatica | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | Migrate + | 3 | 67 |
| sycamore | Platanus occidentalis | NSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 68 |
| shingle oak | Quercus imbricaria | NDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | Migrate + | 3 | 69 |
| blackjack oak | Quercus marilandica | NSL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 3 | 70 |
| chinkapin oak | Quercus muehlenbergii | NSL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | Migrate + | 3 | 71 |
| pin oak | Quercus palustris | NSH | Low | 0 | 0 | 0 | New Habitat | New Habitat | Low | Absent | New Habitat | New Habitat | | Migrate + | 3 | 72 |
| Shumard oak | Quercus shumardii | NSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 3 | 73 |
| post oak | Quercus stellata | WDH | High | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 3 | 74 |
| sassafras | Sassafras albidum | WSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 75 |
| American mountain-ash | Sorbus americana | NSL | Low | 0 | 0 | 0 | Unknown | Unknown | Low | Absent | Unknown | Unknown | | | 0 | 76 |