

| Common Name | Scientific Name | Range | MR | %Cell | FIAsum | FIAiv | ChngCl45 | ChngCl85 | Adap | Abund | Capabil45 | Capabil85 | SHIFT45 | SHIFT85 | SSO | N |
|----------------------------|-------------------------|-------|--------|-------|---------|-------|-------------|---------------|--------|----------|-------------|-------------|------------|------------|-----|----|
| quaking aspen | Populus tremuloides | WDH | High | 78.3 | 1820.83 | 13.86 | Sm. dec. | Sm. dec. | Medium | Abundant | Fair | Fair | | | 0 | 1 |
| sugar maple | Acer saccharum | WDH | High | 59.9 | 1626.7 | 18.14 | No change | No change | High | Abundant | Very Good | Very Good | | | 1 | 2 |
| paper birch | Betula papyrifera | WDH | High | 76.5 | 1456.21 | 10.78 | Sm. dec. | Lg. dec. | Medium | Abundant | Fair | Fair | | | 0 | 3 |
| balsam fir | Abies balsamea | NDH | High | 88.8 | 1426.75 | 9.6 | Lg. dec. | Lg. dec. | Low | Abundant | Poor | Poor | | | 0 | 4 |
| red maple | Acer rubrum | WDH | High | 65 | 1092.77 | 11.02 | Sm. inc. | Sm. inc. | High | Abundant | Very Good | Very Good | | | 1 | 5 |
| northern white-cedar | Thuja occidentalis | WSH | High | 61.9 | 886.32 | 8.56 | No change | Sm. dec. | Medium | Abundant | Good | Fair | | | 1 | 6 |
| white spruce | Picea glauca | NSL | Medium | 78.4 | 687.58 | 4.88 | Sm. dec. | Lg. dec. | Medium | Abundant | Fair | Fair | | | 0 | 7 |
| black spruce | Picea mariana | NSH | High | 49.2 | 606.66 | 9.24 | Lg. dec. | Lg. dec. | Medium | Abundant | Fair | Fair | | | 0 | 8 |
| yellow birch | Betula alleghaniensis | NDL | High | 53.2 | 487.83 | 5.6 | Sm. dec. | Sm. dec. | Medium | Common | Poor | Poor | | | 0 | 9 |
| eastern hemlock | Tsuga canadensis | NSH | High | 28.8 | 413.86 | 10.62 | Sm. inc. | No change | Low | Common | Fair | Poor | Infill + | Infill + | 1 | 10 |
| black ash | Fraxinus nigra | WSH | Medium | 39.8 | 266.58 | 3.79 | Sm. inc. | Sm. inc. | Low | Common | Fair | Fair | | | 1 | 11 |
| jack pine | Pinus banksiana | NSH | Medium | 21.3 | 251.27 | 9.17 | No change | No change | High | Common | Good | Good | | | 1 | 12 |
| eastern white pine | Pinus strobus | WDH | High | 28 | 204.71 | 4 | Lg. inc. | Lg. inc. | Low | Common | Good | Good | | | 1 | 13 |
| red pine | Pinus resinosa | NSH | Medium | 18.3 | 186.47 | 8.36 | Sm. inc. | Lg. inc. | Low | Common | Fair | Good | | | 1 | 14 |
| white ash | Fraxinus americana | WDL | Medium | 18.4 | 151 | 5.16 | Lg. inc. | Lg. inc. | Low | Common | Good | Good | Infill ++ | Infill ++ | 1 | 15 |
| northern red oak | Quercus rubra | WDH | Medium | 24.6 | 147.15 | 3.81 | Lg. inc. | Lg. inc. | High | Common | Very Good | Very Good | | | 1 | 16 |
| American basswood | Tilia americana | WSL | Medium | 24 | 121.07 | 3.79 | Lg. inc. | Lg. inc. | Medium | Common | Very Good | Very Good | Infill ++ | Infill ++ | 1 | 17 |
| eastern hophornbeam; ironw | Ostrya virginiana | WSL | Low | 28.9 | 96.27 | 2.5 | Lg. inc. | Lg. inc. | High | Common | Very Good | Very Good | | | 1 | 18 |
| mountain maple | Acer spicatum | NSL | Low | 36.9 | 87.85 | 1.41 | Lg. dec. | Lg. dec. | High | Common | Fair | Fair | | | 1 | 19 |
| tamarack (native) | Larix laricina | NSH | High | 14.8 | 74.01 | 4.95 | Lg. inc. | Lg. dec. | Low | Common | Good | Good | Infill ++ | Infill ++ | 1 | 20 |
| bigtooth aspen | Populus grandidentata | NSL | Medium | 9.1 | 36.83 | 1.97 | Lg. inc. | Lg. inc. | Medium | Rare | Good | Good | | | 1 | 21 |
| balsam poplar | Populus balsamifera | NSH | Medium | 9.4 | 34.27 | 2.1 | No change | Sm. dec. | Medium | Rare | Poor | Very Poor | Infill + | | 1 | 22 |
| American elm | Ulmus americana | WDH | Medium | 11 | 33.43 | 2.46 | Lg. inc. | Lg. inc. | Medium | Rare | Good | Good | Infill ++ | Infill ++ | 1 | 23 |
| chokecherry | Prunus virginiana | NSLX | FIA | 12.4 | 27.76 | 1.96 | Unknown | Unknown | Medium | Rare | FIA Only | FIA Only | | | 0 | 24 |
| serviceberry | Amelanchier spp. | NSL | Low | 13.8 | 24.91 | 1.6 | Lg. dec. | Sm. dec. | Medium | Rare | Very Poor | Very Poor | | | 0 | 25 |
| American mountain-ash | Sorbus americana | NSL | Low | 19.1 | 20.65 | 0.76 | Lg. dec. | Lg. dec. | Low | Rare | Very Poor | Very Poor | | | 0 | 26 |
| pin cherry | Prunus pensylvanica | NSL | Low | 19.1 | 19.88 | 0.67 | Lg. dec. | Very Lg. dec. | Medium | Rare | Very Poor | Lost | | | 0 | 27 |
| black cherry | Prunus serotina | WDL | Medium | 11.1 | 15.22 | 1.11 | Lg. inc. | Lg. inc. | Low | Rare | Fair | Fair | Infill + | Infill + | 1 | 28 |
| green ash | Fraxinus pennsylvanica | WSH | Low | 4.7 | 12.01 | 1.24 | Lg. inc. | Lg. inc. | Medium | Rare | Good | Good | Infill ++ | Infill ++ | 2 | 29 |
| black willow | Salix nigra | NSH | Low | 1.2 | 6.38 | 5.13 | No change | Sm. inc. | Low | Rare | Very Poor | Poor | | Infill + | 2 | 30 |
| peachleaf willow | Salix amygdaloides | NSLX | FIA | 1.7 | 4.59 | 1.08 | Unknown | Unknown | Medium | Rare | FIA Only | FIA Only | | | 0 | 31 |
| slippery elm | Ulmus rubra | WSL | Low | 0.9 | 3.58 | 2.19 | No change | Sm. inc. | Medium | Rare | Poor | Fair | | Infill + | 2 | 32 |
| boxelder | Acer negundo | WSH | Low | 1.2 | 1.16 | 0.93 | Lg. inc. | Lg. inc. | High | Rare | Good | Good | | | 2 | 33 |
| American hornbeam; muscle | Carpinus caroliniana | WSL | Low | 1.2 | 0.29 | 0.23 | Lg. inc. | Lg. inc. | Medium | Rare | Good | Good | | | 2 | 34 |
| ashe juniper | Juniperus ashei | NDH | High | 0 | 0 | 0 | New Habitat | New Habitat | NA | Absent | New Habitat | New Habitat | | | 0 | 35 |
| eastern redcedar | Juniperus virginiana | WDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | Migrate ++ | 3 | 36 |
| red spruce | Picea rubens | NDH | High | 0 | 0 | 0 | New Habitat | New Habitat | Low | Absent | New Habitat | New Habitat | | | 0 | 37 |
| striped maple | Acer pensylvanicum | NSL | Medium | 0 | 0 | 0 | New Habitat | Unknown | Medium | Absent | New Habitat | Unknown | | | 3 | 38 |
| silver maple | Acer saccharinum | NSH | Low | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 | 39 |
| sweet birch | Betula lenta | NDH | High | 0 | 0 | 0 | New Habitat | New Habitat | Low | Absent | New Habitat | New Habitat | | | 0 | 40 |
| bitternut hickory | Carya cordiformis | WSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 41 |
| pignut hickory | Carya glabra | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 0 | 42 |
| shellbark hickory | Carya laciniosa | NSL | Low | 0 | 0 | 0 | Unknown | Unknown | Medium | Absent | Unknown | Unknown | | | 0 | 43 |
| shagbark hickory | Carya ovata | WSL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 44 |
| mockernut hickory | Carya alba | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 0 | 45 |
| hackberry | Celtis occidentalis | WDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | Migrate + | 3 | 46 |
| flowering dogwood | Cornus florida | WDL | Medium | 0 | 0 | 0 | Unknown | New Habitat | Medium | Absent | Unknown | New Habitat | | | 0 | 47 |
| American beech | Fagus grandifolia | WDH | High | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 48 |
| black walnut | Juglans nigra | WDH | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 49 |
| yellow-poplar | Liriodendron tulipifera | WDH | High | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 0 | 50 |
| bigleaf magnolia | Magnolia macrophylla | NSL | Low | 0 | 0 | 0 | Unknown | Unknown | Medium | Absent | Unknown | Unknown | | | 0 | 51 |
| blackgum | Nyssa sylvatica | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 0 | 52 |
| sycamore | Platanus occidentalis | NSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 0 | 53 |

National Park
Climate Change Atlas Tree Species
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 |
|--------------------|-----------------------|-------|--------|-------|--------|-------|-------------|-------------|--------|--------|-------------|-------------|------------|------------|-----|----|
| eastern cottonwood | Populus deltoides | NSH | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 54 |
| white oak | Quercus alba | WDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 | 55 |
| swamp white oak | Quercus bicolor | NSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 56 |
| scarlet oak | Quercus coccinea | WDL | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 0 | 57 |
| northern pin oak | Quercus ellipsoidalis | NSH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | Migrate + | Migrate + | 3 | 58 |
| bur oak | Quercus macrocarpa | NDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 | 59 |
| chinkapin oak | Quercus muehlenbergii | NSL | Medium | 0 | 0 | 0 | Unknown | New Habitat | Medium | Absent | Unknown | New Habitat | | | 0 | 60 |
| pin oak | Quercus palustris | NSH | Low | 0 | 0 | 0 | New Habitat | New Habitat | Low | Absent | New Habitat | New Habitat | | | 3 | 61 |
| chestnut oak | Quercus prinus | NDH | High | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 0 | 62 |
| post oak | Quercus stellata | WDH | High | 0 | 0 | 0 | New Habitat | New Habitat | High | Absent | New Habitat | New Habitat | | | 0 | 63 |
| black oak | Quercus velutina | WDH | High | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate ++ | Migrate ++ | 3 | 64 |
| live oak | Quercus virginiana | NDH | High | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 0 | 65 |
| black locust | Robinia pseudoacacia | NDH | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | Migrate + | Migrate ++ | 3 | 66 |
| sassafras | Sassafras albidum | WSL | Low | 0 | 0 | 0 | New Habitat | New Habitat | Medium | Absent | New Habitat | New Habitat | | | 3 | 67 |
| cedar elm | Ulmus crassifolia | NDH | Medium | 0 | 0 | 0 | New Habitat | New Habitat | Low | Absent | New Habitat | New Habitat | | | 0 | 68 |