



U.S. Census Bureau Urban Areas  
Climate Change Atlas Tree Species

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Landscape Change Research Group  
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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  |
|------------------------|------------------------------|-------|--------|-------|--------|-------|---------------|---------------|--------|--------|-------------|-------------|-----------|-----------|-----|----|
| cedar elm              | Ulmus crassifolia            | NDH   | Medium | 82.5  | 230.1  | 25.3  | Sm. dec.      | Sm. dec.      | Low    | Common | Poor        | Poor        | Infill +  | Infill +  | 0   | 1  |
| ashe juniper           | Juniperus ashei              | NDH   | High   | 36.3  | 171.4  | 41.8  | Sm. dec.      | Sm. dec.      | Medium | Common | Poor        | Poor        |           |           | 0   | 2  |
| bur oak                | Quercus macrocarpa           | NDH   | Medium | 6.2   | 119.1  | 37.2  | Very Lg. dec. | Very Lg. dec. | High   | Common | Lost        | Lost        |           |           | 0   | 3  |
| sugarberry             | Celtis laevigata             | NDH   | Medium | 51.2  | 85.6   | 18.2  | No change     | No change     | Medium | Common | Fair        | Fair        | Infill +  | Infill +  | 1   | 4  |
| post oak               | Quercus stellata             | WDH   | High   | 21.3  | 85.6   | 34.6  | No change     | No change     | High   | Common | Good        | Good        | Infill ++ | Infill ++ | 1   | 5  |
| green ash              | Fraxinus pennsylvanica       | WSH   | Low    | 45    | 79.6   | 21.9  | Lg. dec.      | Lg. dec.      | Medium | Common | Poor        | Poor        | Infill +  | Infill +  | 0   | 6  |
| pecan                  | Carya illinoensis            | NSH   | Low    | 20    | 45.5   | 28.2  | Sm. inc.      | Sm. inc.      | Low    | Rare   | Poor        | Poor        | Infill +  | Infill +  | 1   | 7  |
| eastern redcedar       | Juniperus virginiana         | WDH   | Medium | 21.2  | 17.6   | 5.9   | Lg. inc.      | Lg. inc.      | Medium | Rare   | Good        | Good        | Infill ++ | Infill ++ | 2   | 8  |
| hackberry              | Celtis occidentalis          | WDH   | Medium | 21.3  | 14.4   | 6.2   | No change     | No change     | High   | Rare   | Fair        | Fair        | Infill +  | Infill +  | 2   | 9  |
| cittamwood/gum bumelia | Sideroxylon lanuginosum ssp. | NSL   | Low    | 25    | 12.3   | 6.1   | Lg. inc.      | Lg. inc.      | High   | Rare   | Good        | Good        | Infill ++ | Infill ++ | 1   | 10 |
| blackjack oak          | Quercus marilandica          | NSL   | Medium | 6.2   | 11.1   | 4.0   | No change     | No change     | High   | Rare   | Fair        | Fair        | Infill +  |           | 2   | 11 |
| live oak               | Quercus virginiana           | NDH   | High   | 25    | 10.3   | 5.1   | Lg. inc.      | Lg. inc.      | Medium | Rare   | Good        | Good        | Infill ++ | Infill ++ | 2   | 12 |
| winged elm             | Ulmus alata                  | WDL   | Medium | 20    | 8.3    | 5.2   | Lg. inc.      | Lg. inc.      | Medium | Rare   | Good        | Good        | Infill ++ | Infill ++ | 2   | 13 |
| water elm              | Planera aquatica             | NSL   | Low    | 5     | 8.1    | 20.0  | Sm. dec.      | Sm. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |           | 0   | 14 |
| honeylocust            | Gleditsia triacanthos        | NSH   | Low    | 11.2  | 6.4    | 2.4   | Sm. dec.      | Sm. dec.      | High   | Rare   | Poor        | Poor        | Infill +  |           | 2   | 15 |
| boxelder               | Acer negundo                 | WSH   | Low    | 5     | 4.7    | 11.5  | Sm. dec.      | No change     | High   | Rare   | Poor        | Fair        | Infill +  | Infill +  | 2   | 16 |
| black willow           | Salix nigra                  | NSH   | Low    | 5     | 3.7    | 9.1   | Sm. dec.      | Sm. dec.      | Low    | Rare   | Very Poor   | Very Poor   |           |           | 0   | 17 |
| Osage-orange           | Maclura pomifera             | NDH   | Medium | 10    | 2.3    | 2.9   | Sm. inc.      | Lg. inc.      | High   | Rare   | Good        | Good        | Infill ++ | Infill ++ | 2   | 18 |
| durand oak             | Quercus sinuata var. sinuata | NSL   | FIA    | 5     | 1.2    | 3.0   | Unknown       | Unknown       | Medium | Rare   | FIA Only    | FIA Only    |           |           | 0   | 19 |
| American elm           | Ulmus americana              | WDH   | Medium | 5     | 1.0    | 2.5   | No change     | Lg. inc.      | Medium | Rare   | Poor        | Good        | Infill +  |           | 2   | 20 |
| black walnut           | Juglans nigra                | WDH   | Low    | 5     | 0.8    | 2.0   | Sm. dec.      | Sm. dec.      | Medium | Rare   | Very Poor   | Very Poor   |           |           | 0   | 21 |
| Texas ash              | Fraxinus texensis            | NDH   | FIA    | 10    | 0.7    | 0.9   | Unknown       | Unknown       | NA     | Rare   | FIA Only    | FIA Only    |           |           | 0   | 22 |
| Shumard oak            | Quercus shumardii            | NSL   | Low    | 5     | 0.2    | 0.6   | No change     | No change     | High   | Rare   | Fair        | Fair        | Infill +  | Infill +  | 2   | 23 |
| flowering dogwood      | Cornus florida               | WDL   | Medium | 0     | 0      | 0     | Unknown       | Unknown       | Medium | Absent | Unknown     | Unknown     |           |           | 0   | 24 |
| black cherry           | Prunus serotina              | WDL   | Medium | 0     | 0      | 0     | Unknown       | Unknown       | Low    | Absent | Unknown     | Unknown     |           |           | 0   | 25 |
| water oak              | Quercus nigra                | WDH   | High   | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent | New Habitat | New Habitat | Likely +  | Likely +  | 3   | 26 |
| American basswood      | Tilia americana              | WSL   | Medium | 0     | 0      | 0     | Unknown       | Unknown       | Medium | Absent | Unknown     | Unknown     |           |           | 0   | 27 |
| slippery elm           | Ulmus rubra                  | WSL   | Low    | 0     | 0      | 0     | New Habitat   | New Habitat   | Medium | Absent | New Habitat | New Habitat | Likely +  | Likely +  | 3   | 28 |