

**Table 14. Pic:** Modeled climatic habitat for species for five consecutive 30-year climate normal periods, including two historic periods (1960s and 1990s) and three future periods (2020s, 2050s, and 2080s). Species values represent an estimated proportion of the land base, assuming no human disturbance. An estimated percent of climate conditions suitable for cropland or rangeland use, are provided as well as climate conditions not supporting forested ecosystems

| Scientific name               | Common name          | 1960s | 1990s | 2020s | 2050s | 2080s |
|-------------------------------|----------------------|-------|-------|-------|-------|-------|
|                               | Non-Forested         | 37.19 | 35.1  | 34.68 | 37.34 | 37.84 |
|                               | Agriculture          | 0.23  | 0.07  | 1.89  | 2.28  | 2.78  |
| <i>Picea mariana</i>          | black spruce         | 27.72 | 23.32 | 12.81 | 4.26  | 1.57  |
| <i>Betula papyrifera</i>      | paper birch          | 8.81  | 11.6  | 11.37 | 6.89  | 4.72  |
| <i>Pinus banksiana</i>        | jack pine            | 5.77  | 6.6   | 4.98  | 1.36  | 0.92  |
| <i>Abies balsamea</i>         | balsam fir           | 4     | 4.42  | 4.9   | 5.68  | 4.34  |
| <i>Larix laricina</i>         | tamarack             | 1.94  | 1.57  | 0.81  | 0.53  | 0.51  |
| <i>Picea glauca</i>           | white spruce         | 1.86  | 2.46  | 2.91  | 2.33  | 1.89  |
| <i>Thuja occidentalis</i>     | northern white cedar | 1.7   | 1.99  | 2.91  | 3.53  | 3.68  |
| <i>Populus tremuloides</i>    | quaking aspen        | 1.11  | 0.96  | 2.91  | 2.58  | 3.47  |
| <i>Betula alleghaniensis</i>  | yellow birch         | 0.29  | 0.64  | 3.83  | 4.26  | 3.4   |
| <i>Pinus strobus</i>          | eastern white pine   | 0.22  | 0.52  | 2.98  | 3.89  | 3.38  |
| <i>Acer saccharum</i>         | sugar maple          | 0.14  | 0.44  | 3.32  | 9.19  | 12.01 |
| <i>Acer saccharinum</i>       | silver maple         | 0.13  | 0.27  | 0.23  | 0.46  | 0.55  |
| <i>Acer rubrum</i>            | red maple            | 0.09  | 0.18  | 1.48  | 2.62  | 4.43  |
| <i>Populus balsamifera</i>    | balsam poplar        | 0.04  | 0.03  | 0.09  | 0.14  | 0.2   |
| <i>Pinus resinosa</i>         | red pine             | 0.02  | 0.08  | 0.53  | 0.69  | 1.12  |
| <i>Picea rubens</i>           | red spruce           | 0.02  | 0.03  | 0.29  | 1.07  | 0.33  |
| <i>Populus grandidentata</i>  | bigtooth aspen       | 0.01  | 0.02  | 0.74  | 1.11  | 1.13  |
| <i>Fraxinus nigra</i>         | black ash            | 0.01  | 0.02  | 0.15  | 0.48  | 0.98  |
| <i>Tsuga canadensis</i>       | eastern hemlock      | 0     | 0.02  | 0.49  | 1.57  | 2.22  |
| <i>Fagus grandifolia</i>      | American beech       | 0     | 0.01  | 0.37  | 1.27  | 1.12  |
| <i>Quercus rubra</i>          | northern red oak     | 0     | 0.01  | 0.37  | 1.69  | 2.2   |
| <i>Tilia americana</i>        | American basswood    | 0     | 0     | 0.08  | 0.52  | 1.15  |
| <i>Fraxinus americana</i>     | white ash            | 0     | 0     | 0.02  | 0.28  | 0.53  |
| <i>Prunus serotina</i>        | black cherry         | 0     | 0     | 0.01  | 0.1   | 0.25  |
| <i>Quercus alba</i>           | white oak            | 0     | 0     | 0     | 0.05  | 0.07  |
| <i>Fraxinus pennsylvanica</i> | green ash            | 0     | 0     | 0     | 0.02  | 0.1   |
| <i>Ulmus americana</i>        | American elm         | 0     | 0     | 0     | 0.03  | 0.09  |