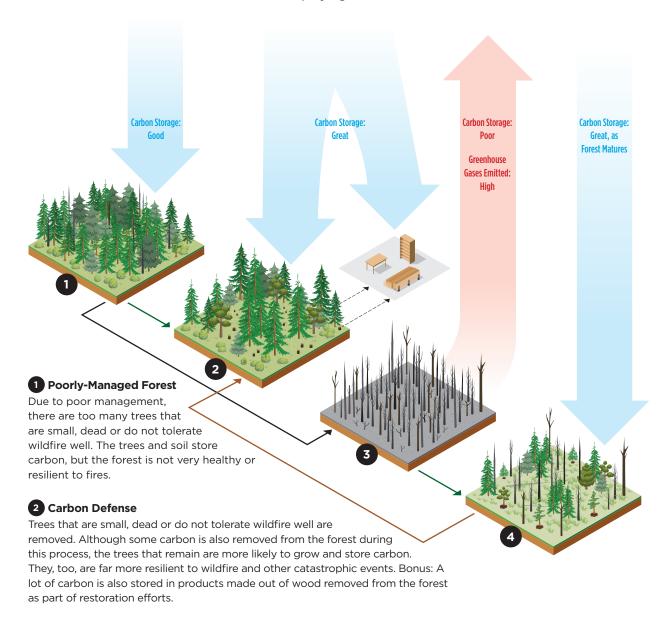
Playing Carbon Defense



Trees are gaining momentum as a climate change solution, given the role they play in capturing carbon. This is often done by planting trees, which American Forests refers to as playing "carbon offense." But forests release carbon if they are not cared for and, as a result, degrade. These forests need to be actively managed or restored so they can optimally capture and store carbon, limiting the risk of its release when large and intense wildfires, as well as other events, occur. This is known as playing "carbon defense."



3 Burned Forest

Carbon dioxide and other greenhouse gases were emitted from this poorly-managed forest during a wildfire. Few of the remaining trees (dead or alive) can sequester carbon. Natural regrowth of new trees is delayed or never happens. Some of the carbon in dead trees eventually returns to the soil. But some is slowly released into the atmosphere as trees decompose.

4 Restored and Resilient Forest

Recently destroyed in an intense wildfire, this forest is being restored in accordance with climate-smart practices — such as planting a variety of (but not too many) trees that are climate resilient. As the forest matures, a lot of carbon is stored in the trees and soil. Also, the forest can better withstand fire, which can be reintroduced as a management tool.