

1163-92-1229

Eric Marland* (marlandes@appstate.edu) and **Gregg Marland** (marlandg@appstate.edu).

Dynamics of Carbon Storage in Wood Products.

When forests are harvested all of the carbon removed from the site is not instantly oxidized and released to the atmosphere as CO₂. While some of the C may be released in the year of harvest, some may be sequestered in durable wood products for years, even centuries. In estimating CO₂ emissions, we want to recognize that while some products are harvested but not oxidized there also is some CO₂ released from oxidation of products harvested in previous years. Of interest is the long term trend in the overall carbon stock from harvested wood products and the relationship of that pool with forest carbon stocks at different time and spatial scales. In this presentation we will discuss the current stock of harvested wood products in the US, how it is changing, and how a forest manager can estimate the actual net, effective discharge of CO₂ from a given forest harvest. (Received September 15, 2020)