

# Western Hardwood Lumber Product Environmental Profile

We use environmentally sound practices and our products are sourced from responsibly managed forests.



## ANNUAL DATA FOR 2009

### PRODUCT

Name/Description: Western Hardwood Lumber  
 Mill location(s): Arlington, WA; Centralia, WA; Longview, WA;  
 Eugene/Coos Bay, OR; Garibaldi, OR

### CERTIFICATION

Certified supply chain<sup>(1)</sup>: Yes  
 % Fiber from certified forests: 67.3%  
 Fiber sourcing area(s): U.S. and Canada

### PRODUCT COMPOSITION

Wood fiber: 100%

### AIR

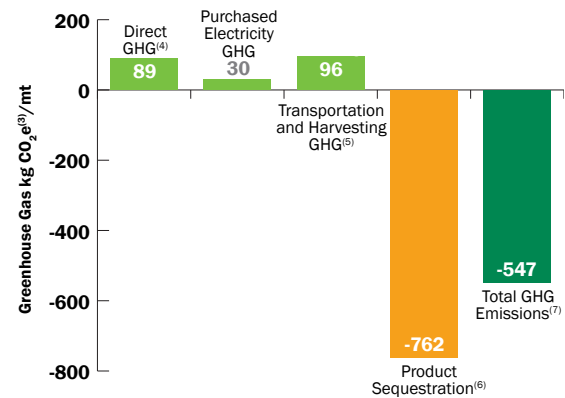
Nitrous Oxide (NO<sub>x</sub>): 0.88 kg/mt<sup>(2)</sup>  
 Particulate Matter (PM): 0.33 kg/mt  
 Sulfur Dioxide (SO<sub>2</sub>): 0.01 kg/mt  
 Volatile Organic Compounds (VOC): 0.34 kg/mt

### WATER

Water used in the production of products is generally reused in the process or discharged into an approved water treatment facility.

Storm water at these facilities is managed according to all federal, state and local regulations.

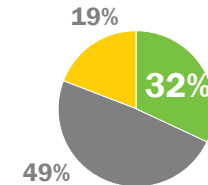
### CARBON FOOTPRINT



### ENERGY

(Used in manufacturing)

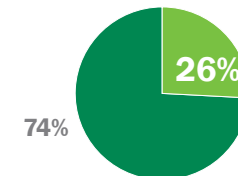
- Biomass (e.g., wood residuals)
- Fossil fuel
- Purchased electricity



### RESIDUALS MANAGEMENT

(Remaining material from manufacturing process)

- Burned for energy
- Beneficially reused (e.g., land applied, recycled)



For more information, visit [www.wy.com/sustainability](http://www.wy.com/sustainability) and [www.wy.com/hardwoods](http://www.wy.com/hardwoods)

<sup>(1)</sup> Certified supply chain is a certified fiber sourcing system (SFI), or a certified chain of custody (SFI, CSA, PEFC, FSC).

<sup>(2)</sup> Kilogram (kg); metric tonne (mt) is equal to air dry metric ton.

<sup>(3)</sup> Carbon dioxide equivalent (CO<sub>2</sub>e) is the standard metric used to compare emissions from various GHGs based on their global warming potential. For example, the global warming potential for methane is 21, so one ton of methane emissions is equivalent to 21 tons of carbon dioxide (21 CO<sub>2</sub>e).

<sup>(4)</sup> GHG values include carbon dioxide, methane, nitrous oxide, HFCs, PFCs and SF6 (if any). Direct emissions are from sources owned or controlled by Weyerhaeuser.

<sup>(5)</sup> GHG values include harvesting emissions and upstream transportation.

<sup>(6)</sup> Product sequestration is the amount of carbon (shown as equivalent amount of CO<sub>2</sub>) that remains in the finished product for 100 years. This calculation is done using the ICFPA/NCASI Tools for Calculating Biomass Carbon Stored in Forest Products In-Use, Version 1.0a.

<sup>(7)</sup> Total GHG emissions is the estimate of the total upstream emissions (direct and indirect) associated with the growing, manufacturing, and transportation of the product (i.e., cradle to gate) minus the estimate of long-term carbon storage of the product in use. It does not include downstream transportation emissions (e.g., mill to place of use), nor does it include carbon storage and emissions associated with end of life (e.g., landfill carbon storage and methane emissions).



Weyerhaeuser

# Weyerhaeuser at a glance



## WHO WE ARE

Incorporated in 1900, Weyerhaeuser is an international forest products company with offices or operations in 10 countries, and sales of \$5.5 billion in 2009. We are principally engaged in the growing and harvesting of trees, the manufacture, distribution and sale of forest products, and real estate construction and development. Our businesses make products fundamental to human needs in a socially and environmentally responsible manner.

## SUSTAINABLE FORESTRY

We manage forests for both wood production and the ecosystem services they provide. These include clean water, habitat for fish and wildlife, and sites of cultural, historic and scenic importance. We implement landscape-level forest management as part of our compliance with the Sustainable Forestry Initiative® (SFI) standard. In 2009, we planted more than 70 million seedlings worldwide.

## CERTIFICATION AND PRODUCT LABELING

All our manufacturing facilities and every forest we own or manage worldwide have environmental management systems that align with the ISO 14001 standard. One hundred percent of the forests we own or manage in North America have been independently certified as meeting the SFI standard. Nearly all of our North American-made forest products are eligible to use a sustainable forestry label.

## CLIMATE CHANGE

We are committed to reducing our greenhouse gas emissions 40 percent by 2020 using a 2000 baseline. Our primary path to achieve this goal is to derive more energy from carbon-neutral biomass to meet the needs of our manufacturing operations. In 2009, our direct emissions were 13 percent less than in 2000.

## ENERGY USE

Through the use of renewable and carbon-neutral biomass fuels such as wood residuals and other organic byproducts, we generate more than two-thirds of the amount of energy used in our manufacturing operations each year. Increasing the use of renewable biomass-based fuels reduces the use of fossil fuels and associated carbon dioxide emissions to the atmosphere.

## RESIDUALS MANAGEMENT

Weyerhaeuser uses an average of 99 percent of every log in our manufacturing processes. Once our lumber is milled, the residuals of the milling process are used to make additional products (such as pulp, paper, OSB) and/or generate energy for our facilities.

Our hardwoods business manufactures kiln-dried hardwood lumber and pallet stock using a variety of North American species. We have mills and concentration yards across the U.S., most certified to the Sustainable Forestry Initiative® (SFI) Certified Fiber Sourcing standard. We provide SFI-certified alder, ash, cherry, maple, oak and birch.

We also supply SFI/PEFC (Programme for the Endorsement of Forest Certification schemes) chain-of-custody hemlock, PEFC/FSC (Forest Stewardship Council) certified European Beech and imported CARB (California Air Resources Board) certified hardwood plywood.

Our business has multiple distribution sites across the country for easy domestic sourcing and our sales offices across Asia support U.S. business manufacturing in China, Vietnam, Taiwan, Malaysia, Japan, Korea, Japan and the Philippines.

## WATER USE

Our goal is to reduce water use at our cellulose fiber mills 20 percent by 2012, using a 2007 baseline. We achieved a 12.5-percent reduction in 2009.

## GREEN BUILDING

We support green building standards that are voluntary, are consensus-based, incorporate life-cycle assessments, and specify wood products that come from certified sources. Our homebuilding subsidiaries have won recognition for their commitment to green building, and our wood products play an important role in green building because they:

- are made mostly from a renewable, bio-based resource.
- sequester more carbon than required to produce the product.
- are efficiently produced to help eliminate waste.
- are low VOC-emitting materials.
- are certified to credible sustainable forestry standards.

## PROCUREMENT SYSTEM CERTIFICATION

Each of our mills in the U.S. that use logs or wood chips as their raw material is independently certified as meeting the procurement provisions of the SFI standard. This means:

- We know the areas and types of suppliers our wood comes from.
- We do not knowingly purchase wood, wood fiber, or products for distribution that originate from illegal logging.
- We use independent auditors.
- We reach out to family forest owners and educate them about sustainable forestry.