

Cellulose Fibers Product Environmental Profile

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

ANNUAL DATA FOR 2010

PRODUCT

Name/Description: Papergrade Pulps
 Mill location(s): Columbus, MS; Grande Prairie, AB
 Pt. Wentworth, GA

CERTIFICATION

Certified supply chain⁽¹⁾: Yes
 % Fiber from certified forests: 37.4%
 ISO 14001: Mills meet standards for certification
 Fiber sourcing area(s): U.S. and Canada

PRODUCT COMPOSITION

Bleached Softwood Kraft

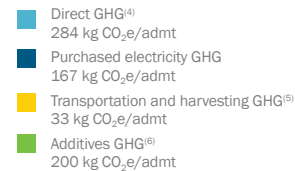
AIR

Nitrogen Oxides (NOx): 2.63 kg/admt⁽²⁾
 Particulate Matter (PM): 0.30 kg/admt
 Sulfur Dioxide (SO₂): 1.36 kg/admt
 Total Reduced Sulfur (TRS): 0.08 kg/admt
 Volatile Organic Compounds (VOC): 0.60 kg/admt



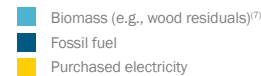
CARBON FOOTPRINT

Total GHG emissions: 684 kg CO₂e⁽³⁾/admt



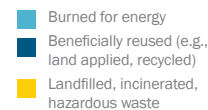
ENERGY

Electrical energy self-sufficiency: 100%
 Energy sources (gross):



RESIDUALS MANAGEMENT

Total residuals: 543 kg/admt of production



WATER

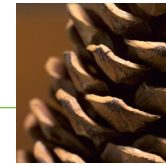
Total Suspended Solids (TSS): 1.87 kg/admt
 Biological Oxygen Demand (BOD): 1.41 kg/admt
 Total Nitrogen⁽⁸⁾ (N_{tot}): 0.23 kg/admt
 Total Phosphorous⁽⁸⁾ (P_{tot}): 0.06 kg/admt
 Adsorbable Organic Halides (AOX): 0.21 kg/admt
 Wastewater Discharge: 57.3 m³/admt

For more information, see our Sustainability Report at www.wy.com/sustainability and our Cellulose Fibers web site at www.wy.com/Businesses/CelluloseFibers



⁽¹⁾ Certified supply chain is a certified fiber sourcing system (SFI).
⁽²⁾ Kilogram (kg); air dry metric ton (admt).
⁽³⁾ Carbon dioxide equivalent (CO₂e) 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 CO₂e).
⁽⁴⁾ Greenhouse gases (GHG) include carbon dioxide, methane, nitrous oxide, HFCs, PFCs and SF6. Direct emissions are from sources owned or controlled by Weyerhaeuser.
⁽⁵⁾ GHG values include harvesting emissions and upstream transportation.
⁽⁶⁾ Additives include GHG emissions associated with manufacturing the chemicals used in this product. These emissions are estimated from an industry standard.
⁽⁷⁾ Renewable energy credits from biomass may be sold.
⁽⁸⁾ Not all mills measure and report nitrogen and phosphorous discharges.

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 2010. 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 2010, we planted more than 50 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 2010, our direct emissions were 26 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 Cellulose Fibers business produces softwood kraft fiber, liquid packaging board and newsprint for the global market. Our pulp products include fluff grades for use in absorbent disposal products like diapers, papergrade for use in tissue/towel and printing and writing papers, and several specialty grades, which are used in niche applications varying from textiles to chemical derivatives. Cellulose-based products are not only cost effective and convenient for consumers, but offer a sustainable alternative relative to petroleum-based products since cellulose fibers are derived from a renewable, responsibly managed resource.

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 16-percent reduction in 2010.

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.