

Advanced Hardwood Biofuels Northwest

AHB: Renewable Fuels for the Pacific Northwest

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AHB is researching a system for locally-grown fuels in the PNW.







Purpose grown hybrid poplars

Drop-in replacement transportation fuels

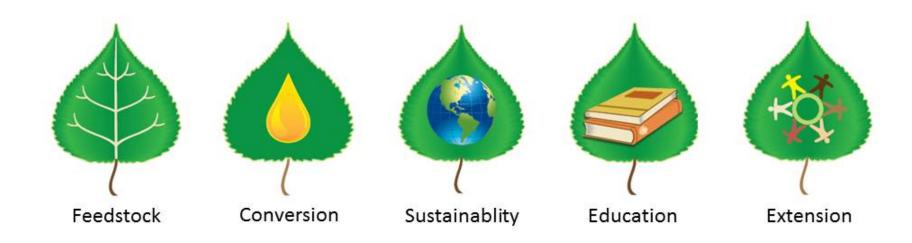
AHB is one of seven USDA AFRI "CAP" projects around the U.S.





Agriculture

AHB is organized into five teams.









Researching all aspects of feedstock development



- Growing and harvesting technologies
- Clone selection
- Quantifying yields
- Production costs and logistics





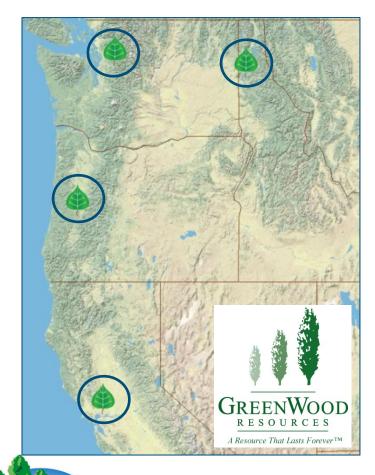
A Resource That Lasts ForeverTM





Four demonstration sites have been established







Zeachem's demonstration plant is located in Boardman, OR.









Acetic acid and cellulosic ethanol have been produced so far.



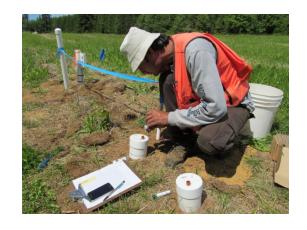




Environmental, economical, and social sustainability?



- Life cycle analysis
- Soil, water, and wildlife.
- Biorefinery location and logistics
- Community perceptions and potential impacts



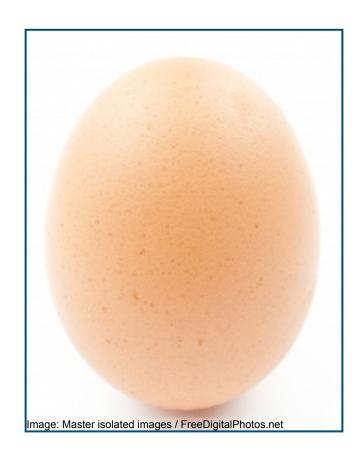


Challengesahead



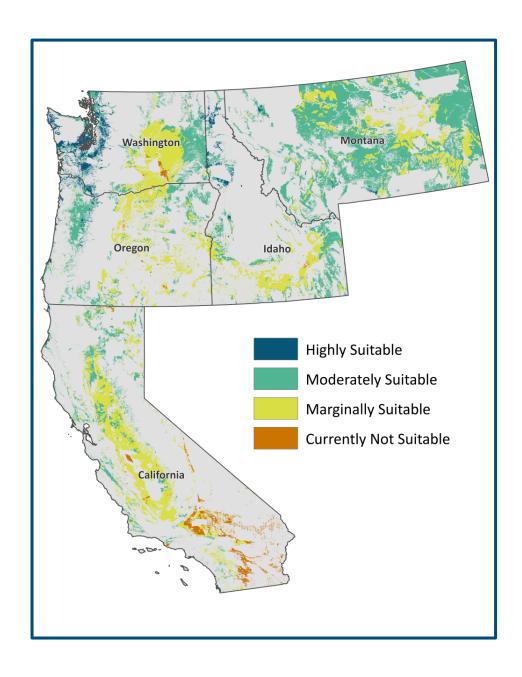
Developing new markets presents a "chicken and egg" problem.



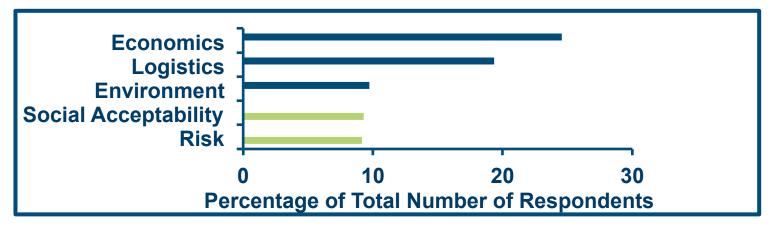




10,000 - 18,000 acres of land would be needed for a biorefinery.



Growers have concerns based on negative experiences with poplar.







It may be difficult to compete with fossil fuel prices.







United States

Agriculture

Department of

High-value bioproducts present short-term economic opportunities.





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http://hardwoodbiofuels.org



