

One World - Shared Resources

Thoughts and Implications for
Management of the National Forests
in a Global Context



“Globalization”

The increasing interdependence of the world’s economic, ecologic, and social communities on each other for sustenance.



Tikal, Guatemala



United States



Kingdom of Bhutan



Why Globalization?

- 💧 Conservation leadership
- 💧 Consumption concerns
- 💧 Desire to lead by example
- 💧 Interest in other nations and their role in globalization



Status and Trends - Timber

- 💧 The U.S. has the fourth largest forest estate of any nation
- 💧 The U.S. is the world's largest consumer and producer of forest products
- 💧 Wood and paper product consumption in the U.S. increased 30% between 1965 and 1998



Status and Trends - Water

- 💧 About .00008 percent of the earth's water is available in rivers and lakes for human and wildlife use
- 💧 The value of water flowing from National Forests is at least \$3.7 billion per year
- 💧 Water usage in the U.S. has increased six fold since 1900, while the population has increased less than four fold



Challenges/Barriers

- 💧 What challenges/barriers does the FS face as a player in the global context?
 - Political realities
 - Laws and policies
 - Multiple use mission
 - FS organizational structure



Three Topics

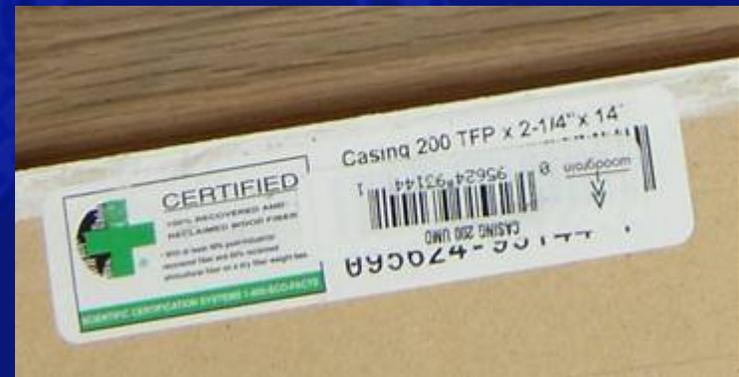
- 💧 Forest certification
- 💧 Ecosystem services (Water)
- 💧 Migratory species (Pacific salmon)



Forest Certification

💧 Purposes:

- Improve the quality of forest management
- Contribute to sustainability
- Differentiate products
- Increase market access



Forest Certification

💧 Forest certification does not:

- Solve all forest management problems
- Halt deforestation
- Substitute for regulations and enforcement

💧 It can:

- Encourage sustainable forest management
- Increase transparency in management process and outcomes
- Be rewarded in the marketplace



Forest Certification

- 💧 What is the current situation and how is the FS involved?
 - ⤴ Important dialogue is happening at high agency levels
 - ⤴ S&PF and NFS examining its applicability
 - ⤴ Current “test case”
 - Six National Forests



Forest Certification

- 💧 What effects do FS actions have in a global perspective?
 - ⤴ National and global conservation leader
 - ⤴ Help define schemes for public lands
 - ⤴ Improve our credibility
 - ⤴ Increase transparency
 - ⤴ Demonstrate our commitment to sustainability and the Montreal Process



Forest Certification

- 💧 What can the FS learn from others?
 - Lessons from 30 countries implementing forest certification
 - Forest Stewardship Council (FSC) is the dominant scheme worldwide
 - Some countries are using a national-specific certification scheme
 - State and private forestlands in the U.S. have used the FSC process and the Sustainable Forestry Initiative (SFI) schemes



Forest Certification

💧 Observations

- ⤴ Forest certification is reasonable for the agency to test and adopt
- ⤴ The transparency and accountability of third-party verification is good for the organization
- ⤴ It is expensive and will consume agency energy
- ⤴ Information about our efforts and position on certification is not well known



Ecosystem services (Water)

- 💧 Background and definitions
 - Goods and services that healthy natural ecosystems provide
 - Their economic contributions are often ignored in public, corporate and individual decision-making



Ecosystem services (Water)

- 💧 What is the current situation and how is the FS involved?
 - Agency's role is facilitator and enabler
 - Ecosystem Services Advisory Group
 - New WO position – Ecosystem Services Coordinator
 - USDA priority – departmental policy on Market-based Environmental Stewardship



Ecosystem services (Water)

- Forest Service projects
 - Focused on trading credits related to water quality and wetland mitigation
 - Francis Marion-Sumter NF
 - Croatan NF



Ecosystem services (Water)

- 💧 What effect do FS actions have in a global perspective?
 - Market trading is too new to draw conclusions
 - FS actions not yet tied to global market
 - Concern about amount of services entering the market from public lands



Ecosystem services (Water)

💧 What can the FS learn from others?

Place	Service	Goal	Method
France	Water	Water quality	Perrier Vittel (bottled mineral water) pays upstream landowners to follow prescribed mgt practices; use less intensive dairy farming techniques

▲ Costa Rica, Mexico, South Africa, New York City



Migratory species (Pacific salmon)

Background

- Illustrates several global concepts
 - Invasive species
 - Health of wild populations
 - Market forces
 - Social environmental costs
 - Habitat conservation and management



Migratory species (Pacific salmon)

- 💧 What is the current situation and how is the FS involved?
 - ⬆ Habitat provider
 - ⬆ Supports economic and cultural aspect of communities
 - ⬆ Current research efforts



Migratory species (Pacific salmon)

- What effect do FS actions have in a global perspective?
 - Primary provider of wild salmon
 - Management actions



Net pens in Chile



Migratory species (Pacific salmon)

💧 Observations

- What we do on our National Forests matters
- Many people don't know the answers to these questions:
 - Pacific or Atlantic?
 - Wild or farmed?
 - Which country and conditions?
 - Why does it matter?
- Effects of invasives are unknown



Our Concluding Thoughts

- 💧 Our responsibility for conservation leadership extends into the global framework
- 💧 We learned about products and services provided by our National Forests for the world marketplace
- 💧 We believe it is time to take the next step and embrace our role in the global community



Recommendations

- 💧 Find a way to make Forest Service efforts more visible to rank-and-file employees!
 - Increase integration among mission areas to coordinate agency action on global issues
 - Adopt a Communications Strategy
 - Create a Globalization Webpage

- 💧 Walk the talk!



Recommendations

- Forest certification
 - ▲ Expand its use
 - ▲ Coordinate with EMS development
- Ecosystem services
 - ▲ Determine methods of valuation of services
 - ▲ Accelerate efforts regarding efforts to support Ecosystem Services
- Migratory species (salmon)
 - ▲ Continue successful management practices
 - ▲ Increase research engagement



Questions?

