

Sustainable Sourcing of Biomass Feedstock

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Attributes of Sustainable Feedstock Supplies

- Fit for Use
- Affordable
- Scalable
- Reliable
- **Legal & Responsible**

Stakeholders

- **Growers**
- **Primary Feedstock Processors**
- Customers and Distributors
- Government
- Environmental Groups & Consultants
- Standards Organizations
- Associations
- Universities
- Lawyers

Environmental Issues Are Key

- Land Use Change
- Biodiversity
- Water Quality and Quantity
- Climate Change
- Pesticides
- Genetically Modified Organisms
- Recycling

U.S. Environmental Policy Context

- **Laws and Regulations**
- **Other Government Programs**
- **Private Sector Initiatives**

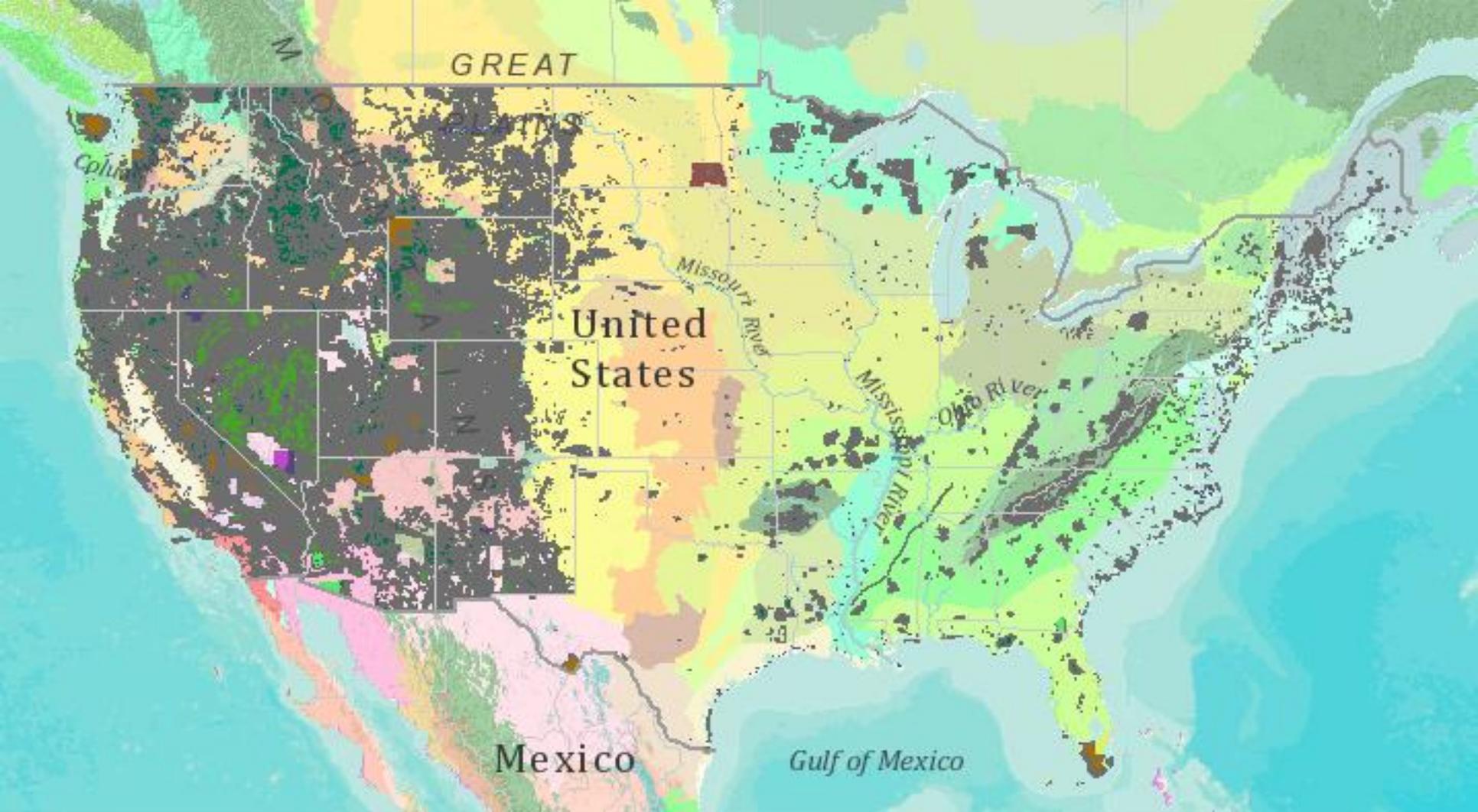
Forestry Best Management Practices

- BMPs are the primary mechanism for controlling water quality impacts of forestry under Clean Water Act
- BMPs are proven effective when implemented.
- By 1990, most states had made good progress in forestry BMP implementation, but there were opportunities for improvement.
- Since 1990, forest certification has helped increase BMP implementation rates to very high levels.

Growing Stock Inventory and Total Annual Removals on U.S. Timberlands

Year	Inventory	Annual Removals
<i>Billions of Dry Tons</i>		
1953	9	0.2
2007	13	0.3

U.S. Ecoregions and Protected Areas

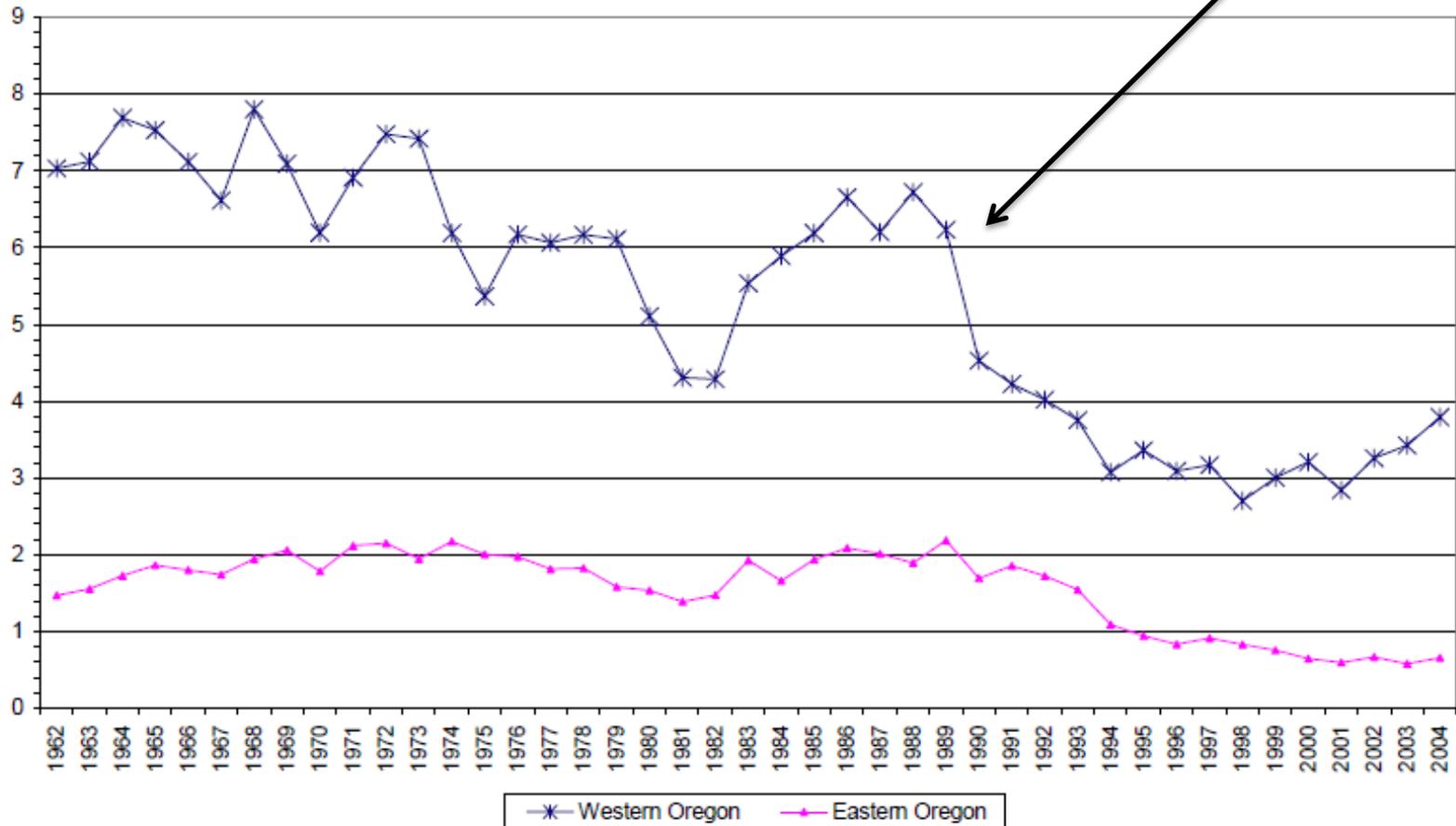


What Could Go Wrong?



Spotted Owl Listed in 1990

Total Timber Harvests, Eastern and Western Oregon, 1962-2004
in Billion Board Feet



Additional Challenges

- Endangered Species Listing Process
- Biomass Carbon Accounting
- Clean Water Act
- Pesticide Registration Reviews
- Interactions of ESA, CWA, FIFRA
- Biotech Regulations
- Certification Issues

What Could Go Right?

