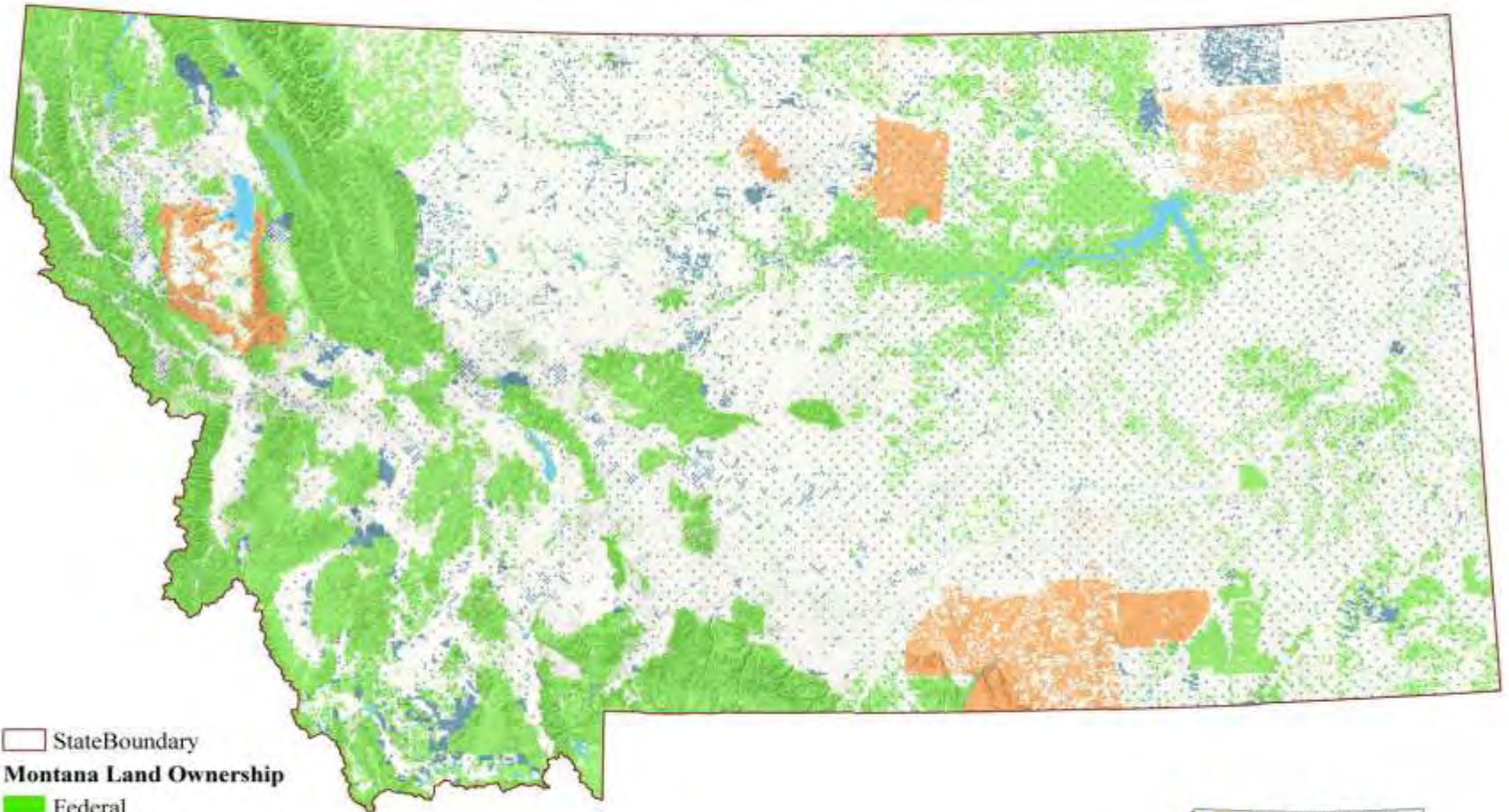


*State Trust Land Management and
Forest Regulation in Montana*





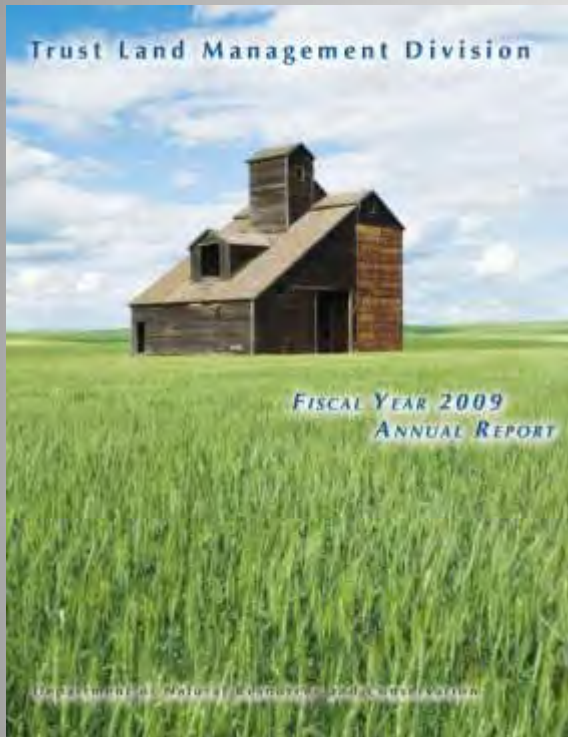
MONTANA - 2007



- StateBoundary
- Montana Land Ownership**
- Federal
 - Private
 - State
 - Tribal
 - Water



Montana State Trust Land Management



- **Total Ownership:**
 - 5.1 million ac. (2.1 million ha.) surface
 - 6.2 million acres (2.5 million ha.) mineral rights
 - 4.4 million acres agriculture/grazing
 - 700,000 acres forested
- **Mission:** *“Produce revenues for trust beneficiaries while considering environmental factors and protecting the future income-generating capacity of the land.”*
- **Beneficiaries (9 total)**
 - Common schools (K-12) – 90%
 - Universities – 5%
 - Other – 5%
- **Governance:** State Land Board
 - 5 top elected officials
- **5-yr Avg. Annual Revenue:** \$103.6 million
 - Forest Management: \$12.2 million

Montana Forest Statistics



- **Total Area: 381,000 sq. km.**
 - 4th largest state in U.S.
- **Population: 1 million**
- **Total Forest: 22 million ac (9 million ha.)**
 - 60% National Forest
 - 24% Private Family
 - 8% Corporate
 - 8% State or Tribal
- **Average Timber Harvest:**
 - 1.0 million cubic meters
- **Forest Products Industry:**
 - 14 wood products mills
 - 10 log home / post-rail plants
 - 600 logging professionals
- **Annual Value of Wood/Paper Products:**
 - \$750 million US

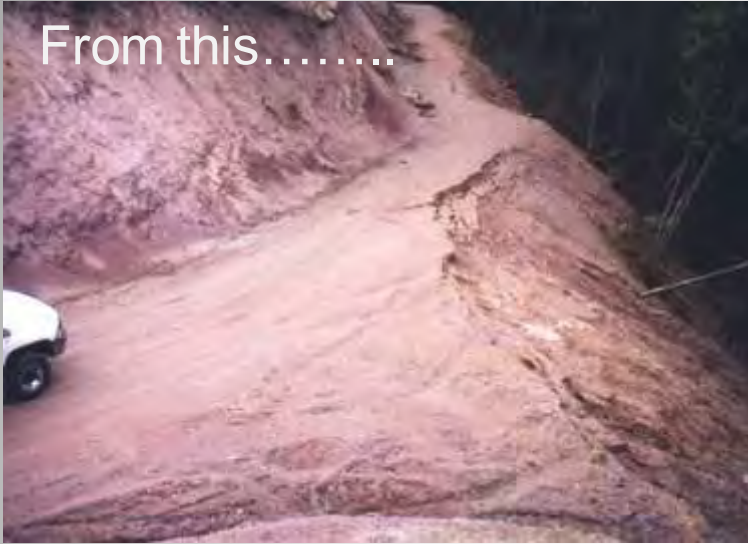
Origins of Montana Forest Practices Regulatory Framework



- **1989: Forestry at a Crossroads**
 - Federal Clean Water Act
 - Potential of Federal Enforcement
 - Pressure for Forest Practices Act
- **Non-regulatory approach**
 - Montana Best Management Practices (BMP) Law
 - Landowner/Logger Education
 - Monitoring
- **Unlike west coast states**

Goal: Improve Forest Practices

From this.....



To this.....



From this.....



To this.....

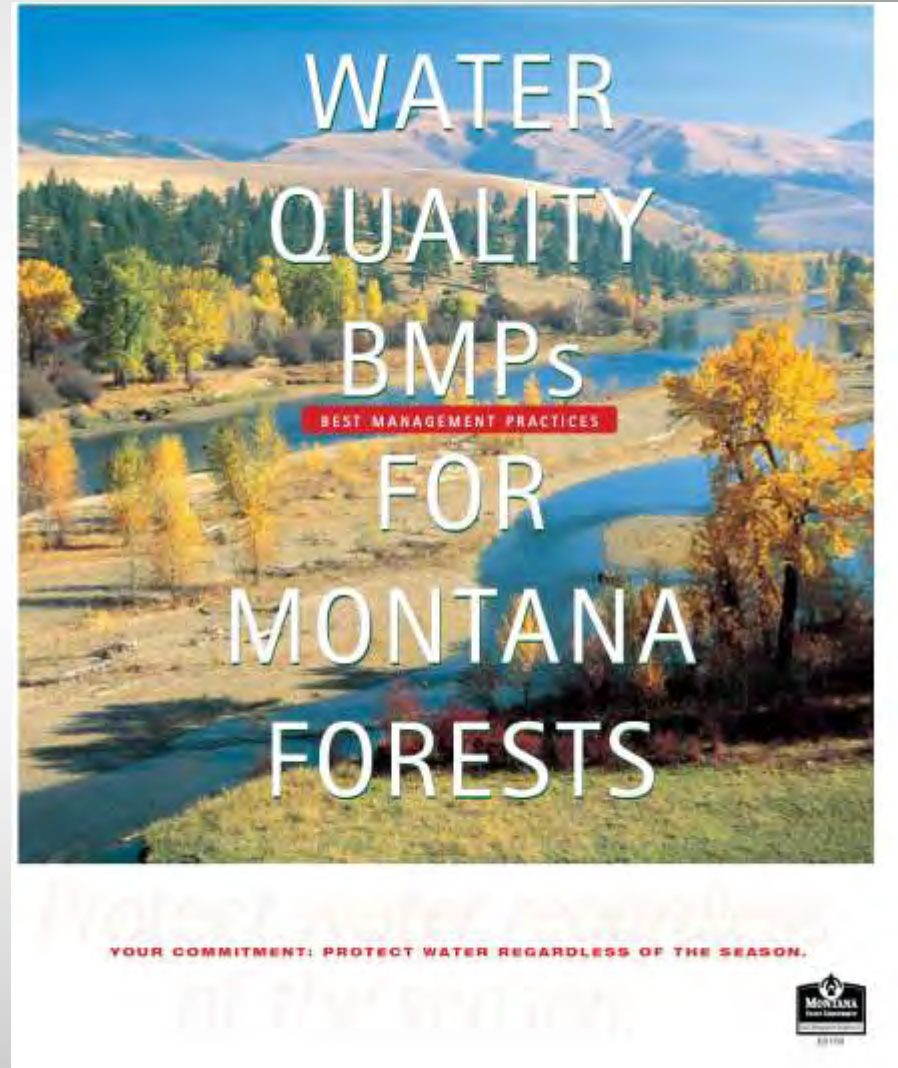


Forestry Best Management Practices (BMPs):

Minimum standards for protecting soil/water quality

Emphasis:

- *Road Construction*
- *Timber Harvesting*
- *Stream Crossings*
- *Hazardous Substances*
- *Streamside Management Zones*



Focus on Education & Monitoring



Loggers

- ✓ Accredited Logger Professional Program
- ✓ Stewardship Education for Loggers

Landowners

- ✓ Forest Stewardship Program
- ✓ Individual on-site advice



Monitoring

- ✓ Field audits every two years
- ✓ Report to state legislature
- ✓ Additional regulation when justified by audits
 - ✓ 1991 Streamside Management Zone Law

BMP Audit Process:

- *Interdisciplinary Audit Teams*
 - *Review 45 sites statewide*
 - *Rate BMP Application and Effectiveness*
 - *Publication of results*
 - *Continual process improvement*



Results: BMP Audit Trends

1990 vs. 2008



Category	1990	2008
<i>Successful Application of All BMPs</i>	78%	97%
<i>Successful Application of High Risk BMPs</i>	53%	90%
<i>% Sites with Major Departure</i>	61%	19%
<i>Average Number of Impacts per Site</i>	8	1

Role of State Government



Educate:

- Loggers
- Landowners

Coordinate:

- Technical Committee
- Audit Process

Monitor/Report:

- State Legislature
- Public

Keys to Success



Government Involvement

- Federal Pressure
- State Legislation
- Agency Education & Coordination

Non-regulatory Process

- Emphasis on Education
- Landowner/Industry Involvement
- Self-Regulation

Proven Results

- Monitoring/ Audits
- Biennial Report

Applying the Model in Other States/Countries



- *Establish Goals*
- *Pressure / incentives from central government*
- *“Progressive Regulation”*
- *Match the prevailing culture*
- *Locally driven*
- *Industry & political support*



Thank You!

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