

# ***21<sup>ST</sup> CENTURY FOREST MANAGEMENT: BALANCING COMPLEX EXPECTATIONS***

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Michigan State University*



*Michigan Society of American Foresters  
2016 Annual Conference  
Gaylord, MI*



# ***21<sup>ST</sup> CENTURY FOREST MANAGEMENT: BALANCING COMPLEX EXPECTATIONS***

## *Presentation topics*

- 1. Background*
- 2. “Environmental Awakening”*
- 3. Evolution of forest management*
- 4. Driving the complexities of forest management*
- 5. Realities*
- 6. Future*



# Applied Forest and Wildlife Ecology Lab

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Managing for Sustainable Northern Hardwoods and Deer

Current Research

Welcome to the Applied Forest and Wildlife Ecology Laboratory in the Department of Fisheries and Wildlife at Michigan State University. We conduct applied research on all aspects of wildlife ecology, but our research tends to focus on the relationships between wildlife and forest management. Here, "forest management" refers to a variety of activities including the mechanized harvesting of trees, chemical control of competing vegetation, biomass harvesting, and use of prescribed fire for ecological restoration. Check out our web page and learn more about the work we do.

MI-MAST:Wildlife Food Tracker



**MI-MAST**  
WILDLIFE FOOD TRACKER

Media Attention



Recent Publications



# Background

- *11 years - Boise Cascade Corporation*
- *1994 – 2005*
  - *Operating regions = PNW, South, NE, Lake States*
  - *Northwest Forest Plan*
  - *SFI*



SUSTAINABLE  
FORESTRY  
INITIATIVE

*Good for you. Good for our forests.™*

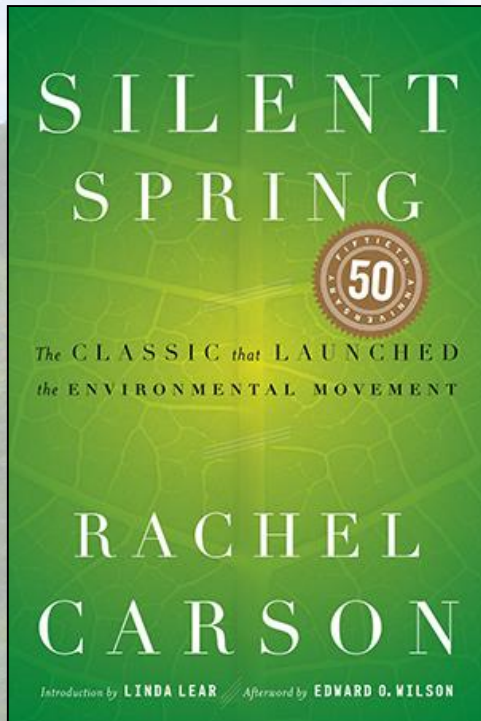
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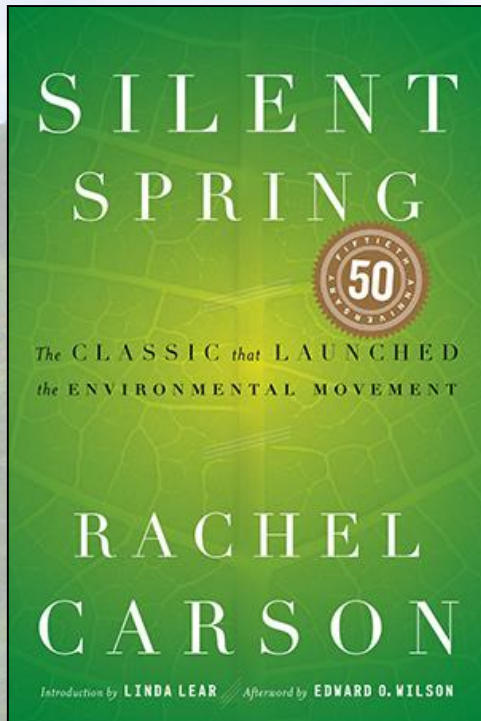
# *Environmental Awakening*

- 1960s – 1970s



# Environmental Awakening

- 1960s – 1970s



# *Forest Management*

- *1980s*





# Forest Management

- *1990s – Changing expectations*



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FOREST  
STEWARDSHIP  
COUNCIL

# Forest Management

- *1990s – Changing expectations*



- *Forest plans*
- *Prompt reforestation*
- *Regeneration accountability*
- *Restrictions on harvest unit size*
- *Utilization*
- *Soil conservation*
- *Water quality*
- *Wildlife and biodiversity*
- *Special sites*
- *Training*
- *Community involvement*

# *Culture Shift*

- *1990s – Changing expectations*



**Boise Cascade**

# *Culture Shift*

- *1990s – Changing expectations*



**Boise Cascade**



# Culture Shift

- *1990s – Changing expectations*



# Culture Shift

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# 21<sup>st</sup> Century Drivers



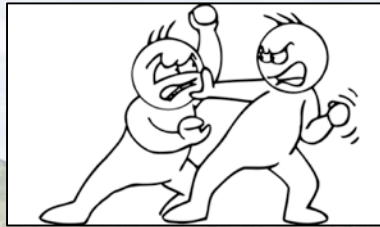
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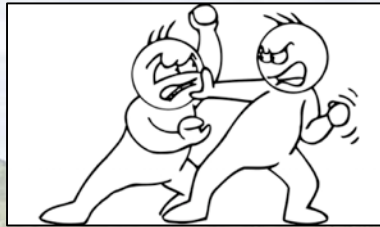
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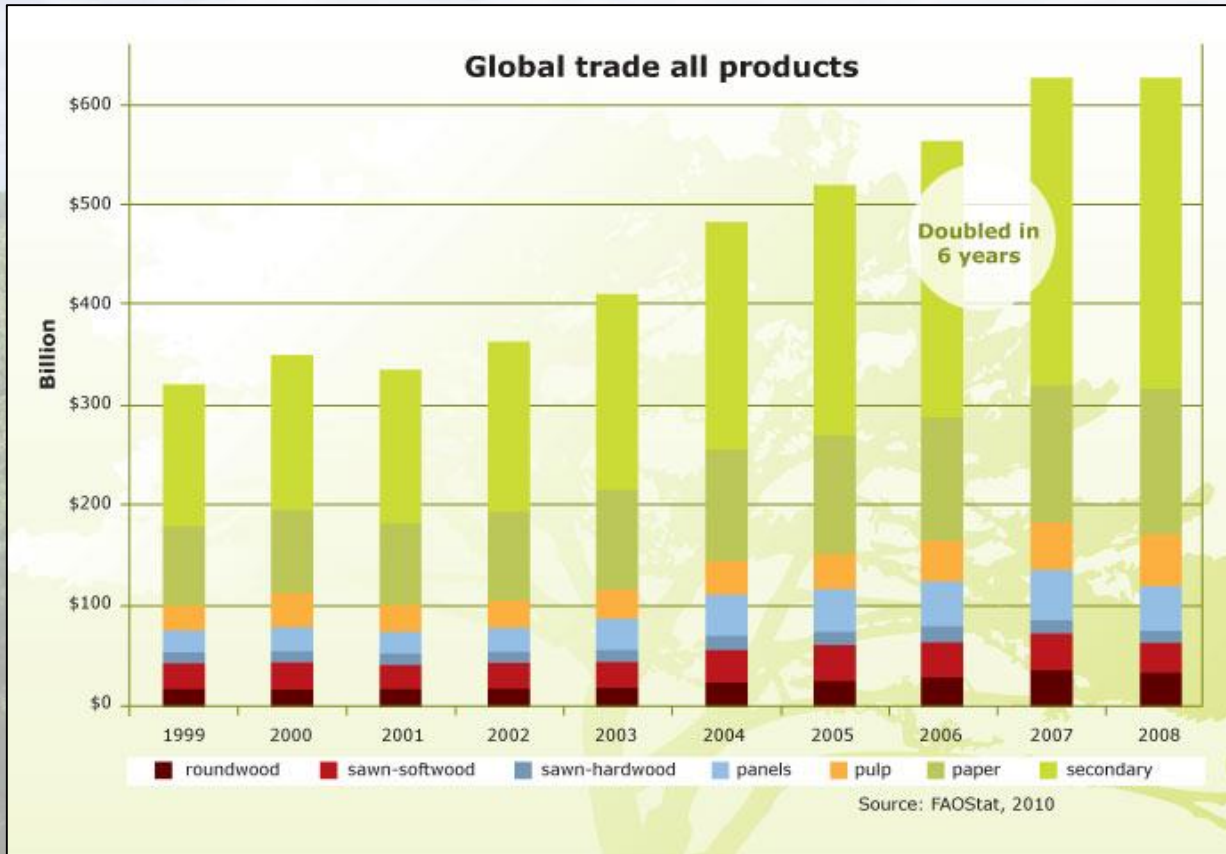


2005



2016

# 21<sup>st</sup> Century Drivers



# *21<sup>st</sup> Century Drivers*



*Port of Longview, WA*

# *21<sup>st</sup> Century Drivers*



# 21<sup>st</sup> Century Reality

*Here to Stay*



**SUSTAINABLE  
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# 21<sup>st</sup> Century Reality

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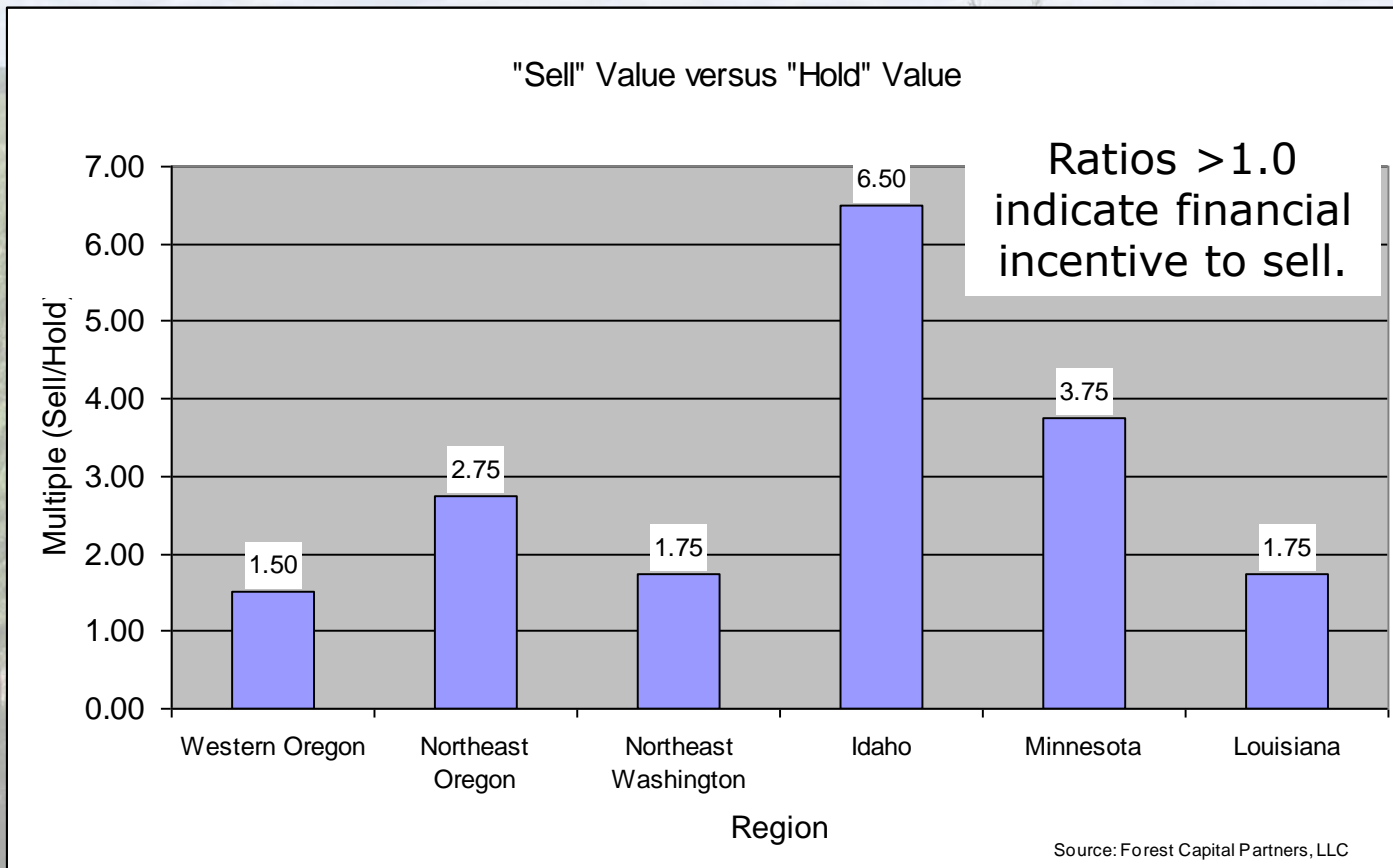


**FOREST  
STEWARDSHIP  
COUNCIL**



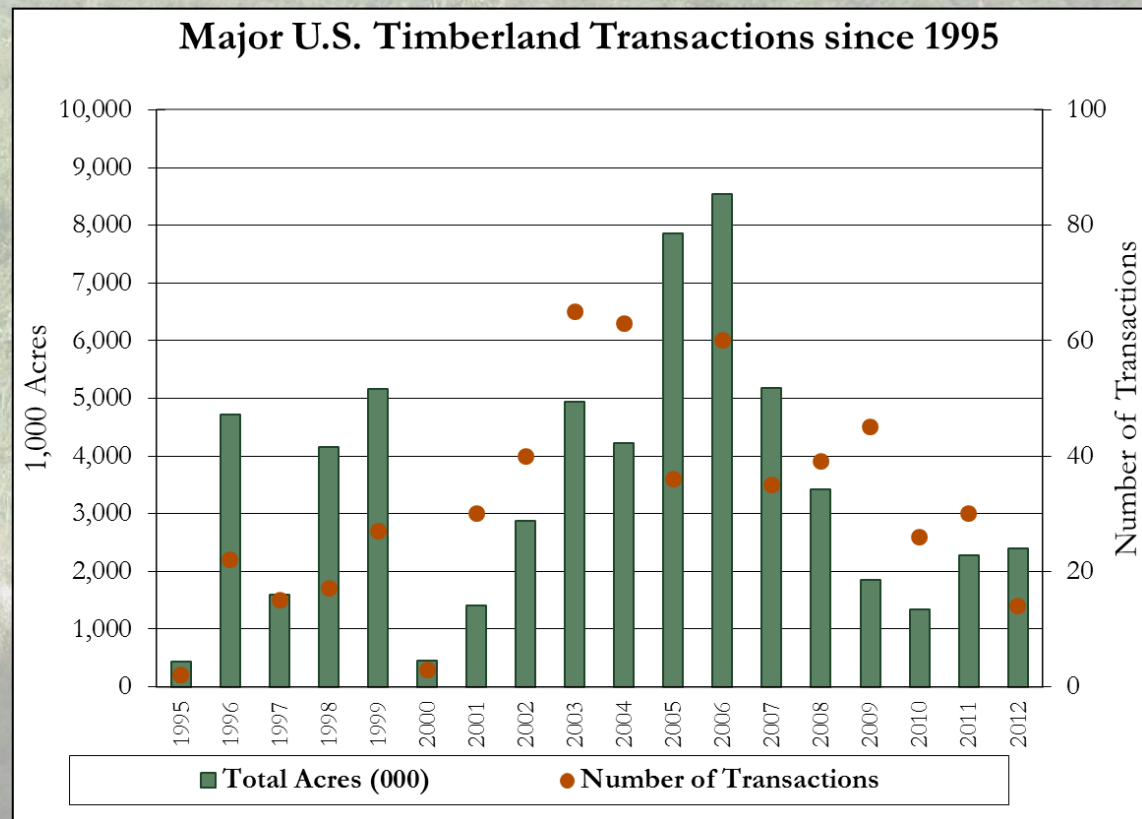
# 21<sup>st</sup> Century Reality

- *Keep working forests working, and certified*
  - *Financial pressure to sell can be high*



# 21<sup>st</sup> Century Reality

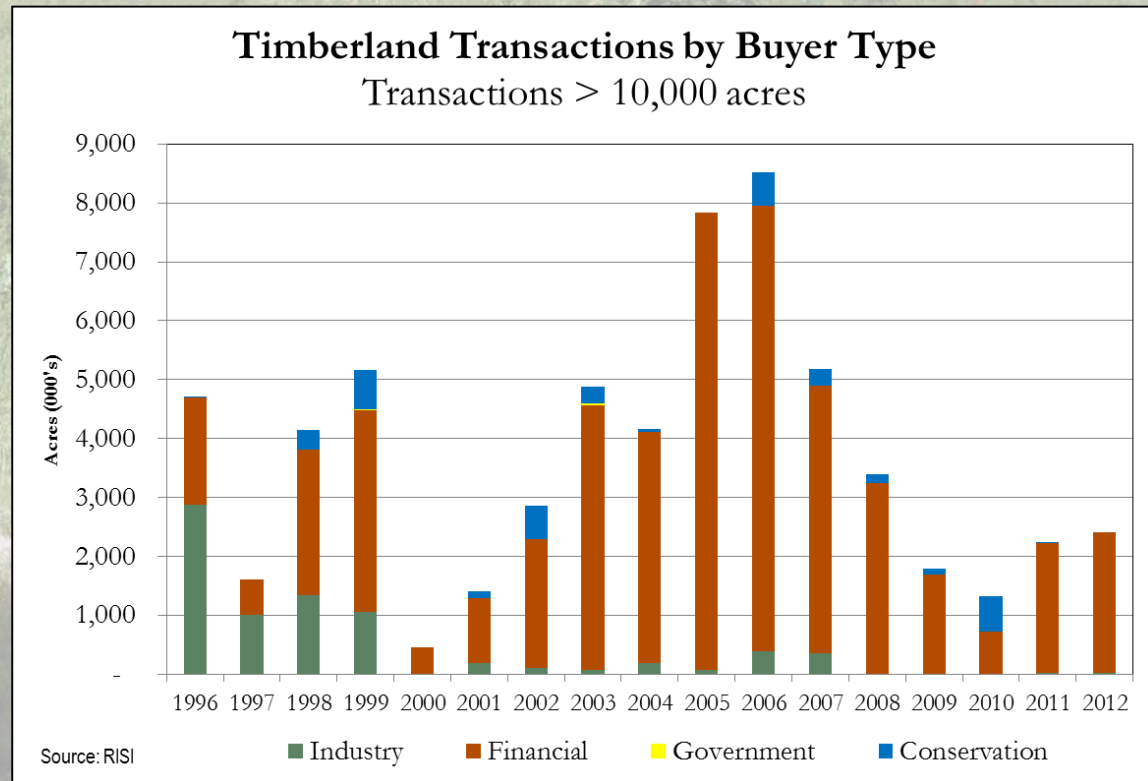
- *Keep working forests working, and certified*
  - *Water*
  - *Wildlife Habitat*
  - *Clean Air*
  - *Recreation*
  - *Green Space*
  - *Quality of Life*
  - *Carbon sequestration*





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# 21<sup>st</sup> Century Reality

CNN Money u.s. + Business Markets Tech Media Personal Finance Small Biz Luxury stoc

Learn n

Alternative Investing

## Timber! Why the rich are buying trees

by Jesse Solomon @JesseSolomonCNN

🕒 November 24, 2014: 12:46 PM ET

👍 Recommend 1.1K



The rich are plowing into timber investments.

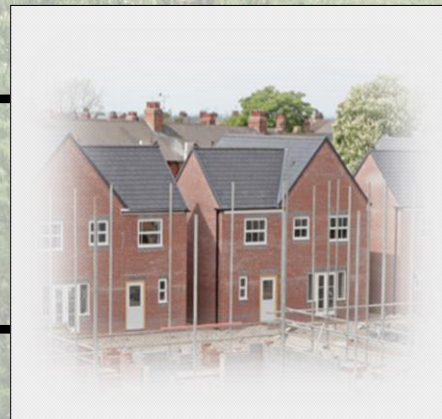
In the rarefied world of the wealthy, timber is the hot new commodity.

## A Four-Part Framework for Preserving Working Forests

Increase  
Working  
Forest  
Values



Decrease  
Alternative  
Land-Use  
Values



# *Future*

- *Maintain social license to operate*
  - *Balance intensification with “nature-based solution” to human demands for wood products*



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  - *“All Lands” approach of USDA*

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- *Get more areas managed under certification standards*
- *Get more products labeled*
- *“Get the science, shift [public] perceptions, then if you shift practices verify the impacts to know if you are on a good track or not.” (Kathy Abusow, President and CEO of the Sustainable Forestry Initiative)*



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*"The Birds and the Bees: Strategies for Managing Multiple Resources"*



**MICHIGAN STATE**  
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College of Agriculture  
and Natural Resources