

American Forest & Paper Association

Economic & Environmental Benefits of Paper Recycling

Brian Hawkinson, AF&PA

NERC Spring 2016 Conference April 12, 2016 Princeton, NJ



About AF&PA

- Advances a sustainable pulp, paper, packaging and wood products manufacturing industry
- Fact-based public policy and marketplace advocacy



AF&PA's 2020 Sustainability Goals

- 1. Paper Recovery
- 2. Energy Efficiency
- 3. GHG Emissions
- 4. Forestry
- 5. Safety
- 6. Water

Exceed 70%

Increase purchased energy efficiency by at least 10% Reduce intensity by at least 15% Increase certified fiber procurement Reduce incidence rate by 25% Reduce use in mills by 12%





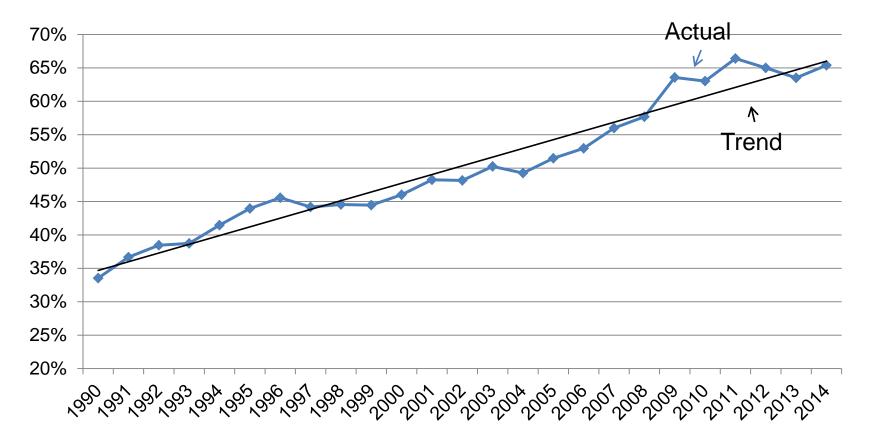
U.S. Recovery of Paper & Paper-based Packaging

- Overall: 65.4% (2014)
- Exceed 60% recovery past 6 years
- True environmental success story
- On track to meet *Better Practices Better Planet 2020* goal



Historical Paper Market Trends

U.S. Paper Recovery Rate 1990-2014

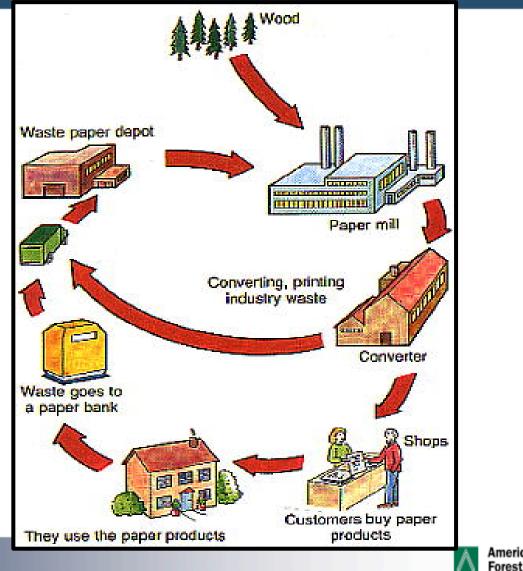




Sustainable Manufacturing of Paper

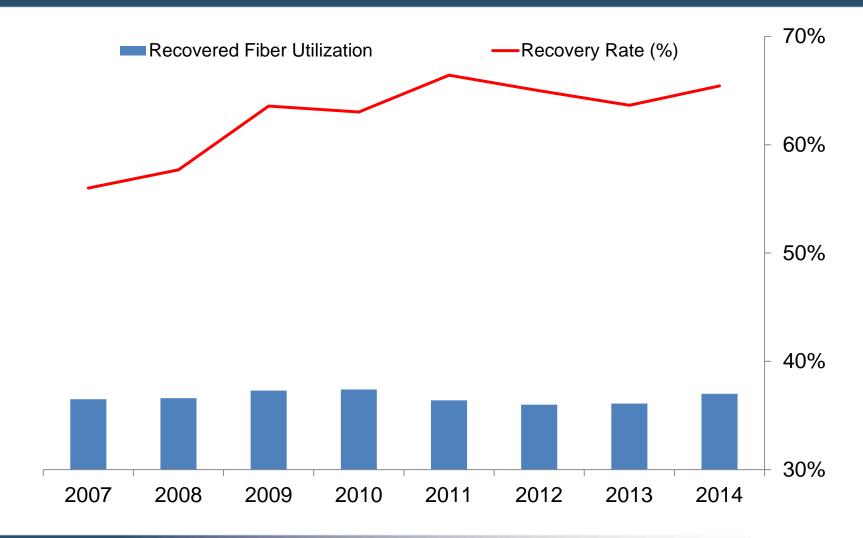
Paper and paperbased packaging are...

- Derived from sustainably managed forests
- Renewable
- Recyclable



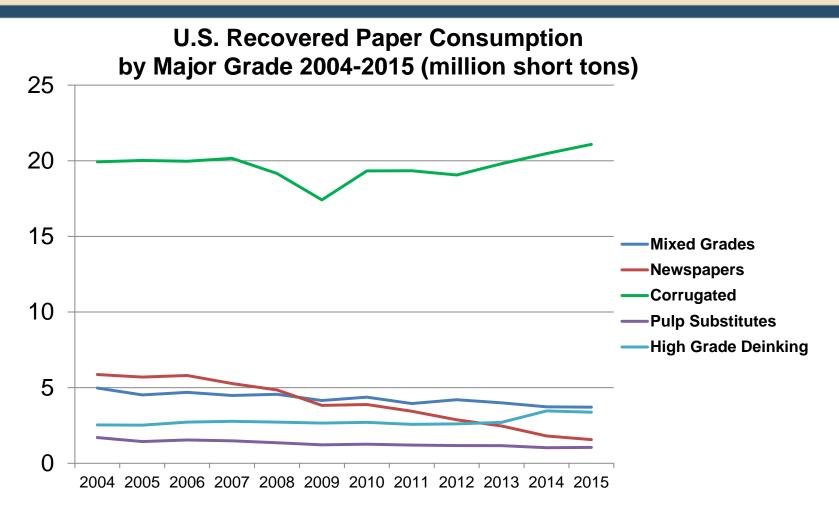
American Forest & Paper Association

Recovered Fiber Share of Total Fiber Source (2007-2014)



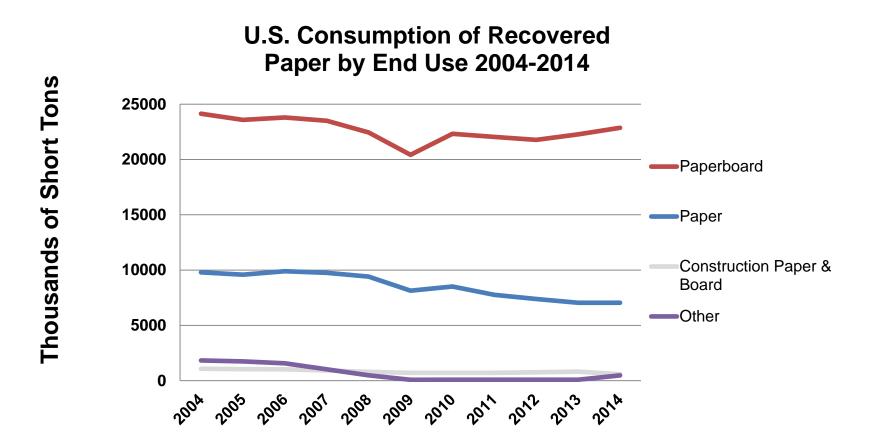


Historical Paper Market Trends





Historical Paper Market Trends



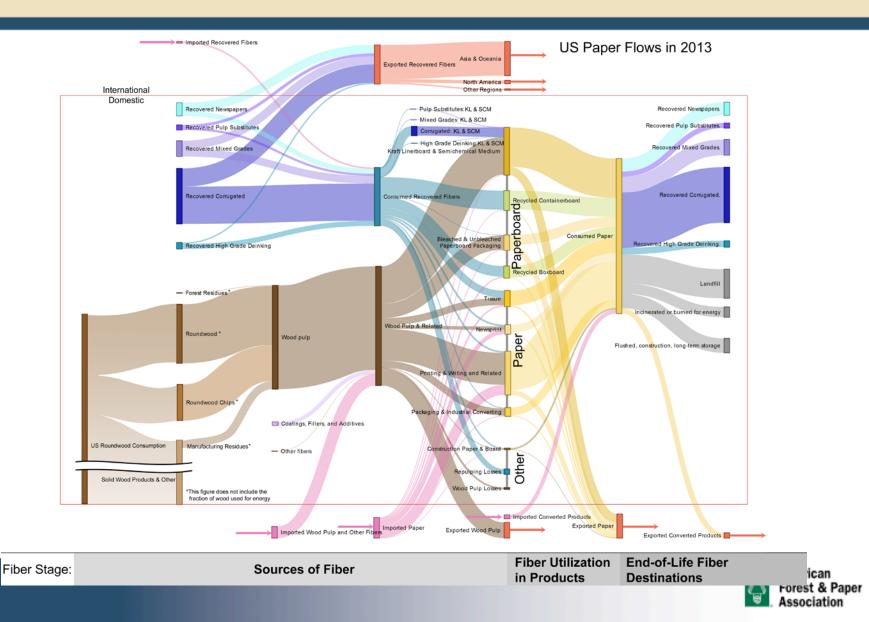


Fiber Used in Manufacturing

- Demand-driven
- New or Recycled Fiber:
 - Best fiber for product requirements
- Meets customer needs:
 - Availability
 - Cost
 - Functionality
 - Aesthetics



U.S. Fiber & Paper Flows



Environmental Benefits

Paper Recycling

- Saves landfill space
- Avoids landfill GHG emissions
- Energy use varies
 - Integrated mill
 - More total energy
 - Mostly biomass
 - Recycled mill
 - Less total energy
 - More purchased electricity



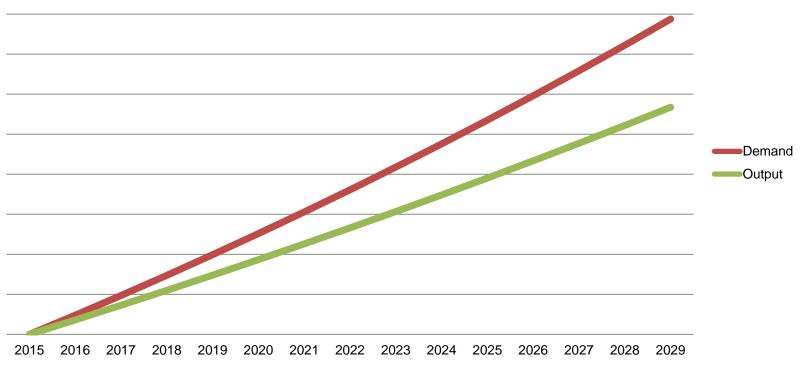
Recovered Fiber Markets

- Complex, dynamic, efficient
- Global demand
- Collection commitment by many parties
 - Municipalities
 - Paper manufacturers
 - Recycling companies
 - Schools
 - Businesses
 - Millions of Americans
- Not served by regulations that restrict market-based collection or use



Global Demand for Recovered Paper (2015-2029)

Global Recovered Fiber Demand vs. Paper and Paperboard Output



Source: RISI



Opportunities for Increased Recovery

- Grades
 - Paperboard
 - Office papers
- Sources
 - Office buildings
 - Smaller commercial/institutional
 - Exurban communities
- New initiatives
- Education



Government Policy Challenges

- Mixed-waste processing systems
- Extended Producer Responsibility
- Recycled content mandates



"Best Practices" for Sustaining Recovered Paper Markets

- Free marketplace
 - Collection
 - Utilization
- System designed to meet end user requirements





Brian Hawkinson Executive Director, Recovered Fiber AF&PA 202-463-2776 brian_hawkinson@afandpa.org

