

Research Priorities

**Ensuring coordination with universities,
landowners, and manufacturers**

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Steve Bullard, Dean

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Research Priorities

National Association of University Forest Resources Programs



www.naufrp.org

NAUFRP's purpose is to advance the health, productivity, and sustainability of America's forests by providing university-based natural resource education, research, science, extension and international programs. Member institutions = 80.

Research Priorities

Dealing with the challenges of:

- **climate change**
- **invasive plants, insects, and pathogens**
- **wildfire**
- **human population growth**
- **market changes (traditional and new)**
- **water quality and quantity**

(RPA Assessment and SFFP in 2012)

SUSTAINABLE FORESTRY INITIATIVE® 2010-2014 STANDARD

PRINCIPLES OF SUSTAINABLE FORESTRY [NORMATIVE] 3

1. Sustainable Forestry
2. Forest Productivity and Health
3. Protection of Water Resources
4. Protection of Biological Diversity
5. Aesthetics and Recreation
6. Protection of Special Sites
7. Responsible Fiber Sourcing Practices in North America
8. Avoidance of Controversial Sources including Illegal Logging in Offshore Fiber Sourcing
9. Legal Compliance
10. Research
11. Training and Education
12. Public Involvement
13. Transparency
14. Continual Improvement

OBJECTIVES OF SUSTAINABLE FORESTRY [NORMATIVE] 4

Summary 4

Forest Land Management Objectives 5

- Objective 1 – Forest Management Planning
- Objective 2 – Forest Productivity
- Objective 3 – Protection and Maintenance of Water Resources
- Objective 4 – Conservation of Biological Diversity including Forests with Exceptional Conservation Value
- Objective 5 – Management of Visual Quality and Recreational Benefits
- Objective 6 – Protection of Special Sites
- Objective 7 – Efficient Use of Forest Resources

Fiber Sourcing Objectives 9

- Objective 8 – Landowner Outreach
- Objective 9 – Use of Qualified Resource and Qualified Logging Professionals
- Objective 10 – Adherence to Best Management Practices
- Objective 11 – Promote Conservation of Biological Diversity, Biodiversity Hotspots and High-Biodiversity Wilderness Areas
- Objective 12 – Avoidance of Controversial Sources including Illegal Logging
- Objective 13 – Avoidance of Controversial Sources including Fiber Sourced From Areas Without Effective Social Laws

Forest Land Management and Fiber Sourcing Objectives 11

- Objective 14 – Legal and Regulatory Compliance
- Objective 15 – Forestry Research, Science, and Technology
- Objective 16 – Training and Education
- Objective 17 – Community Involvement in the Practice of Sustainable Forestry
- Objective 18 – Public Land Management Responsibilities
- Objective 19 – Communications and Public Reporting
- Objective 20 – Management Review and Continual Improvement

Objective 15.
Forestry Research,
Science, and
Technology.

**\$70 million by SFI Program
Participants in 2012**

“In times of change, learners will inherit the earth, while the learned find themselves beautifully equipped to deal with a world that no longer exists.” – Eric Hoffer

“A man who carries a cat by the tail will learn something he can learn in no other way.”

– Mark Twain

“We must take change by the hand, or rest assuredly, change will take us by the throat.”

– Sir Winston Churchill

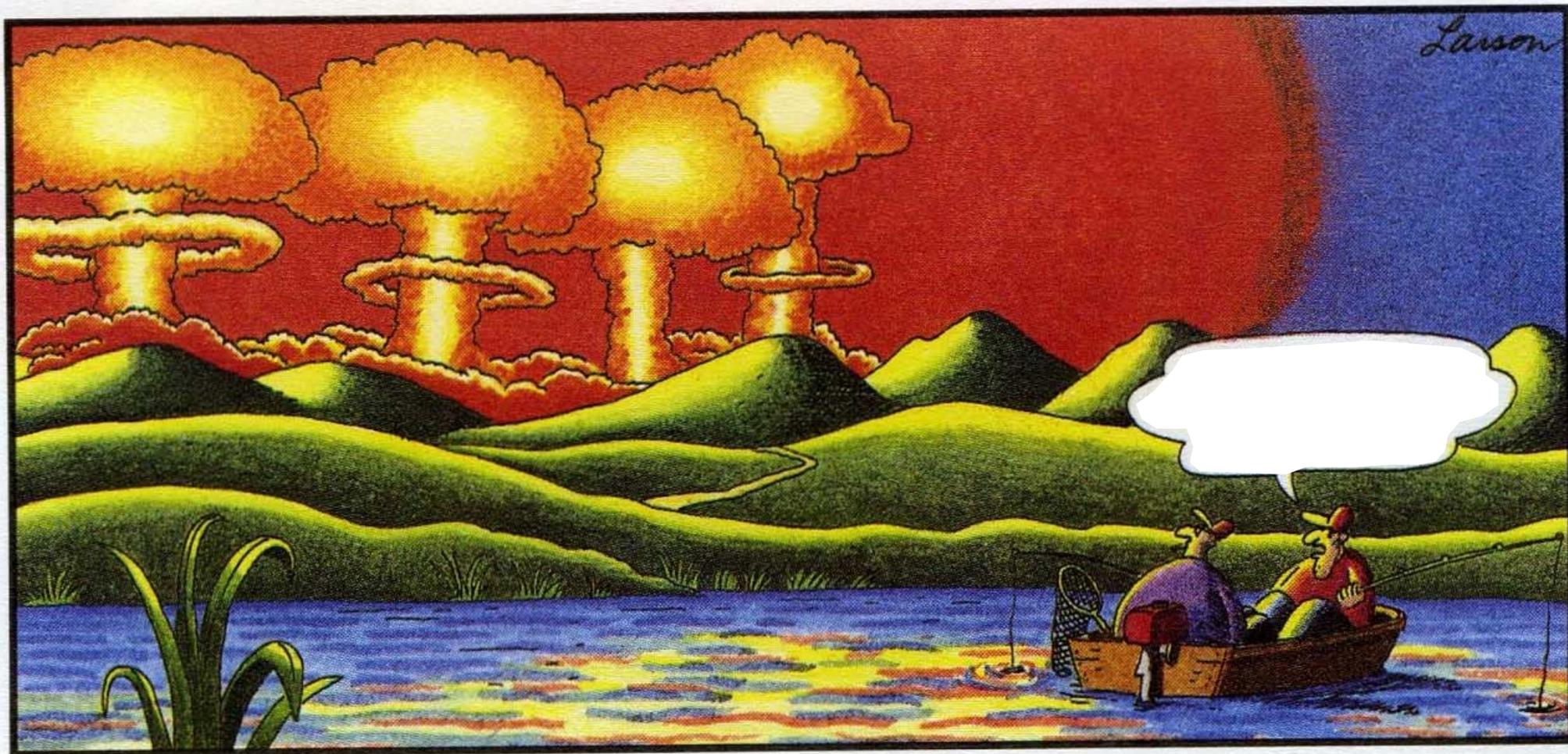
Research Priorities

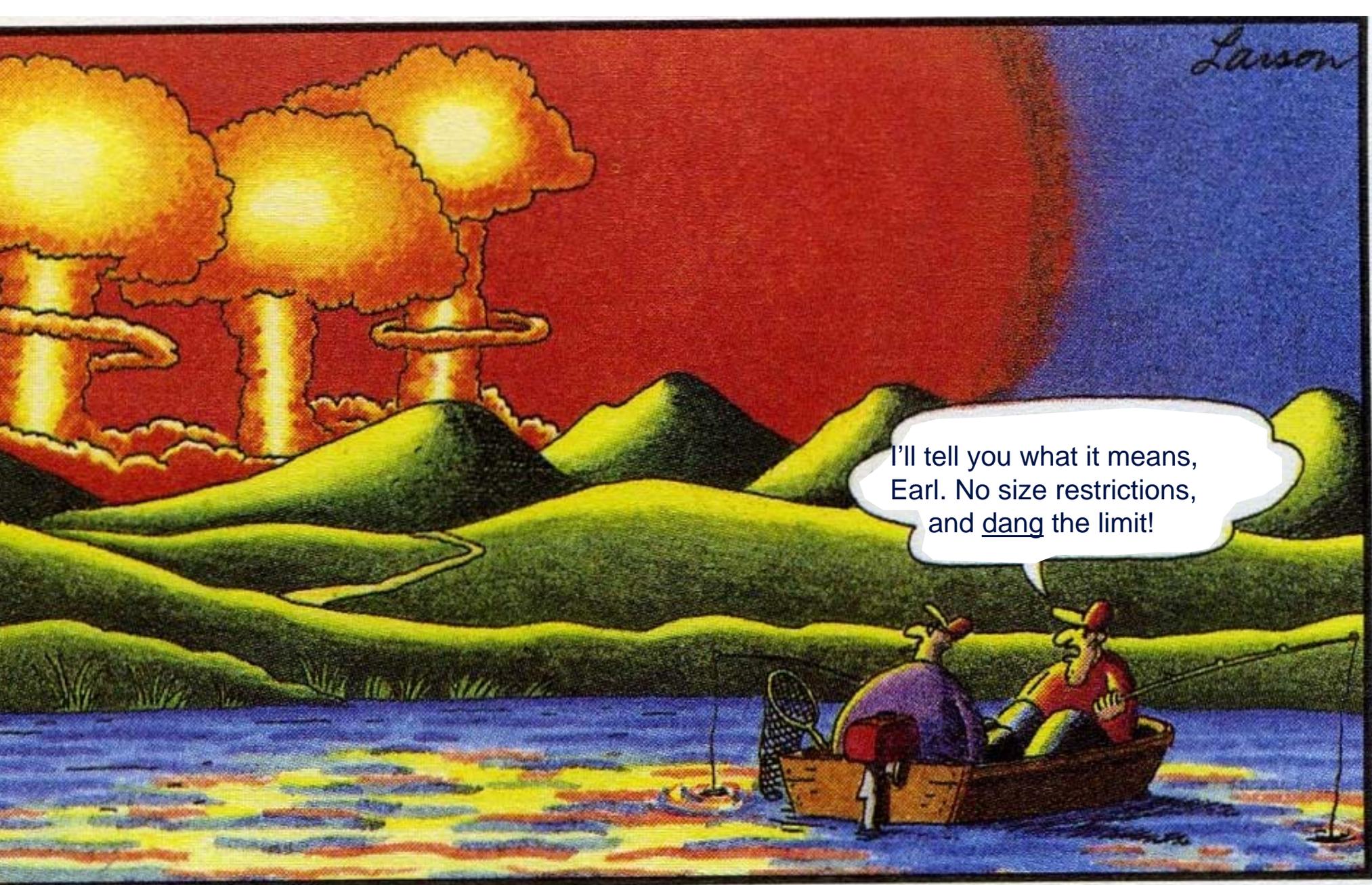
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Interacting, transformational
forces







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RESEARCH PRIORITIES



NAUFRP's Research Priorities

- 1) Fundamental areas of knowledge:
research on individual species, soils,
hydrology, invasive species, and wildfire,

NAUFRP's Research Priorities

- 1) Fundamental areas of knowledge:
research on individual species, soils,
hydrology, invasive species, and wildfire,
plus the social, engineering, and
material sciences

NAUFRP's Research Priorities

- 1) Fundamental areas of knowledge
- 2) Emerging and integrative areas of knowledge

NAUFRP's Research Priorities

- 1) Fundamental areas of knowledge
- 2) Emerging and integrative areas of knowledge

(a) A new science of integration ...

“Research across biophysical boundaries, ownerships, and agency jurisdictions, and the development of models and tools that integrate the geophysical, ecological, socioeconomic, and cultural dimensions of forest resources.”

NAUFRP's Research Priorities

- 1) Fundamental areas of knowledge
- 2) Emerging and integrative areas of knowledge

(b) Forest ecosystem services ...

“... including their value and restoration, the viability of ecosystem service markets, and the full contributions of forests to the global economy and quality of life.”

NAUFRP's Research Priorities

- 1) Fundamental areas of knowledge
 - 2) Emerging and integrative areas of knowledge
- (c) Human attitudes and behaviors ...

“Research and training are needed specifically in conflict resolution and in the uncertainty and risk attached to decisions made by different groups about forests.”

Conflict resolution?



Conflict resolution?





Larson

NAUFRP's Research Priorities

Wow! Let's get a grant and study those flames!

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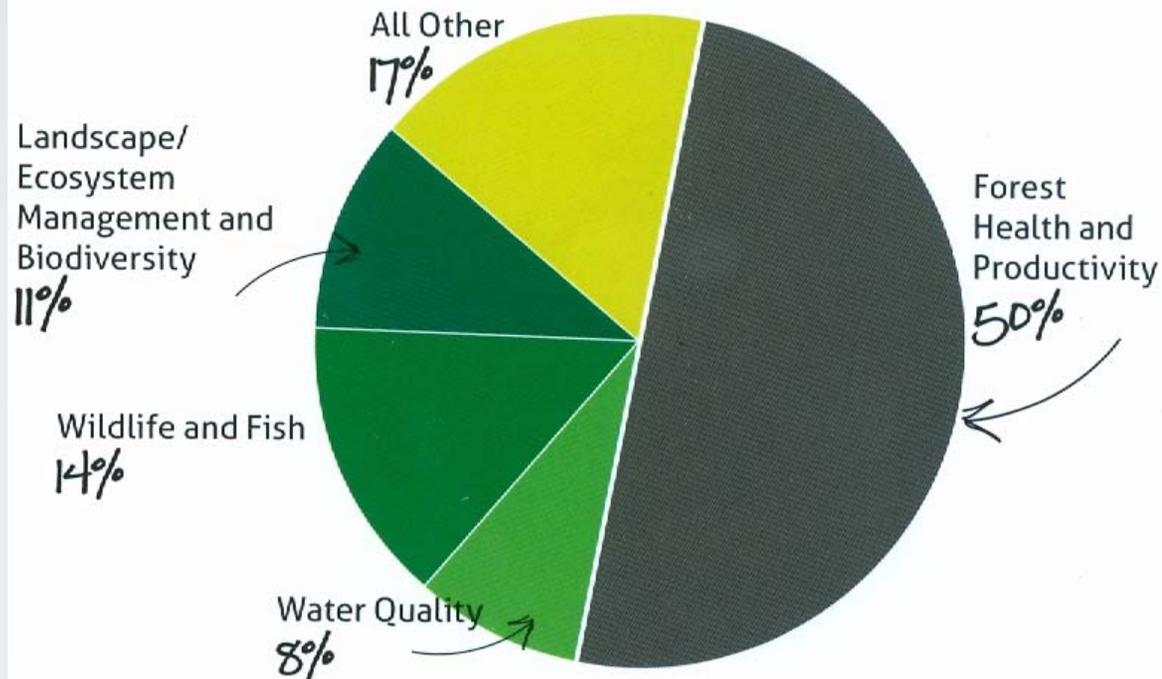
RESEARCH PRIORITIES



SUSTAINABLE FORESTRY INITIATIVE® 2010-2014 STANDARD

Objective 15. Forestry Research, Science, and Technology.

**\$70MM invested in research by SFI
Program Participants in 2012**



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(My perspective, with UK as an example.)

Ensuring coordination with universities, landowners, and manufacturers



SFI requires continued logger education: the KY Master Logger office is at UK, providing training to over 3,000 loggers /yr, providing compliance to SFI firms sourcing in the state.

Ensuring coordination with universities, landowners, and manufacturers



SFI requires landowner outreach/education:

Significant materials are produced and distributed through NAUFRP institutions.

Kentucky Woodlands magazine (UK and the KY DoF) is mailed directly to 10,500 woodland owners in KY with sustainable forestry information.

Ensuring coordination with universities, landowners, and manufacturers



Research in sustainable forest management at NAUFRP institutions is incorporated into forest management plans “*on the ground.*” At UK, for example, all state agency and consulting foresters are trained with the latest research findings, so they are used in Stewardship Plans for 700-2,000 landowners each year.

Ensuring coordination with universities, landowners, and manufacturers



NAUFRP institutions assist forest industries, from logging to fine cabinet manufacturing. At UK, the Center for Forest and Wood Certification is a great example. They assist 80 companies in 6 states, with certification and supply chain development – including networks of certified landowners, loggers, and industries.



Center for Forest & Wood Certification

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Certification Systems

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The Center for Forest and Wood Certification is certification system neutral. The Center was not designed to prefer one certification system over another. The Center was created to assist those individuals and organizations that have made the decision to become certified get certified easier by providing information and technical assistance regardless of which system they prefer. There are currently three main certification systems being applied in the Central Hardwood and Southern Appalachians region. These three systems are described below.

▶ Forest Stewardship Council

The Forest Stewardship Council (FSC) is a globally recognized, independent, non-profit organization established in 1993 in response to global deforestation particularly in the tropical rain forests. Headquartered in Bonn, Germany, FSC has established 10 Principles and many Criteria for all forests worldwide wanting to become certified. These Principles and Criteria were developed with input from professional foresters, forest product companies, environmental groups, timber companies, community development organizations, indigenous groups, and forestry stakeholders. FSC-United States has developed national indicators for the country along with specific regional indicators for streamside management zones and harvest opening sizes. FSC-US has recently developed indicators with specific provisions for family forest ownerships. Please visit the FSC-US or FSC international websites for more information.

▶ Sustainable Forestry Initiative

The Sustainable Forestry Initiative (SFI) was launched by the American Forest and Paper Association in 1994 and is the largest certification standard in the world. SFI formally separated and became independent from the American Forest and Paper Association in 2007 as a separate nonprofit group. SFI only certifies land in Canada and the United States. The SFI Board of Directors is separated into three equal chambers: economic, environmental, and social. The current SFI 2010-2014 Standard is based on principles and measures that promote sustainable forest management and considers all forest values. Please visit the SFI website for more information.

www.forestcertificationcenter.org

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THANK YOU

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