





Natural Resource Enterprises: Enhancing Conservation and Income on Private Lands in Mississippi

Connecting Entrepreneurial Communities

Wednesday 8, 2014





Recreational Access

- Recreation on Private Lands
 - ▶ Hunting
 - ▶ Fishing
 - ▶ Wildlife watching
 - ► Horse trail riding
 - ▶ Agritainment
 - ▶ Bed & breakfast







Outdoor Recreation in USA

- Participants 90 million
- Expenditures \$145 billion (US) spent
- ► Hunting \$34 billion
- Fishing \$42 billion
- Wildlife watching \$55 billion







Outdoor Recreation in Michigan

- Hunting
 - ▶ 753,000 hunters
 - ▶ \$916 million spent
- Fishing
 - ▶ 1.4 million anglers
 - ▶ \$1.7 billion spent
- Wildlife Watching

 - ▶ \$1.6 billion







Outdoor Recreation in AR-LA-MS

- Fishing
 - ▶ 1.9 million anglers
 - ▶ \$1.7 billion spent
- Hunting
 - ▶ 1.0 million hunters
 - ▶ \$1.8 billion spent
- Wildlife Watching
 - ▶ 2.2 million participants
 - ▶ \$1.1 billion







Outdoor Recreation in Mississippi

- Total economic impact
- ► \$2.92 billion
- ► 71,435 jobs created







NRE Program at MSU

- Information delivery
- Well-informed clientele
- Income diversification







NRE Program

- ► Partner network
- Outreach programming
 - ▶ Landowner workshops
 - ▶ Demonstrations
 - ▶ Websites
 - ▶ Marketing







National and LMAV Focus

- Partnering states
 - ▶ Indiana
 - 8 workshops conducted
 - - 3 workshops
 - ▶ Minnesota
 - 2 workshops conducted



- Conducted workshops
- Program Interest





Programming

- Partnering states
 - ▶ Arkansas
 - 9 workshops conducted
 - ▶ Alabama
 - 6 workshops conducted
 - ▶ Tennessee
 - 1 workshop conducted







Programming

- Partnering states
 - ▶ Louisiana
 - 8 workshops conducted
 - 2 coastal venues
 - Braithwaite; Lake Charles
 - Oregon
 - Wooden Shoe Tulip Farm
 - Yamsi Ranch
 - ▶ Michigan
 - Gaylord
 - Mississippi



About

⊞ Events

Experts

♥ Counties



Agriculture

Business

Community

Family ~

Food & Health

Lawn & Garden

Natural Resources

Program



Connect with experts around the country:



SEE HOW SPARTANS MAKE A DIFFERENCE IN MICHIGAN



Natural Resource Enterprises

Natural resources enterprises such as growing Christmas trees, tapping trees to make maple syrup and growing wild mushrooms all help landowners generate income from their property. MSU Extension delivers evidence-based information on how individuals can create profitable enterprises based on resources available on their private land. This information helps landowners and community leaders make better informed decisions.

A natural resource enterprise is a systematic purposeful activity that involves one of Michigan's many natural resources that occur on privately owned land. Natural Resource Enterprises can range from those enterprises that can be solely used for personal benefit to those that can be conducted on a scale that allows for financial gain. Focusing on Natural Resource Enterprises, MSU Extension provides a clearinghouse of news, publications,



online resources and program events relevant to Michigan's abundant natural resource base.

<u>Learn more abobut the MSU Extension workshop, Natural Resources Enterprises: Providing Opportunities</u> for Michigan Landowners on Oct. 7.



Natural Resources Enterprises & was originally developed by Mississippi State University. The program was established in the Department of Wildlife and Fisheries & and Cooperative Extension Service & in Mississippi to educate non-industrial private landowners in the Southeast about sustainable natural resource enterprises and compatible habitat

management practices. The Natural Resource Enterprises Program is focused on effectively delivering information to landowners and community leaders that will encourage informed decision-making regarding the management of land and enterprises. The website has ample resources for business and landowners.

USDA Resources

The U.S. Department of Agriculture has a new agroforestry guide called the Profitable Farms and





Landowner Workshop Series

- Hosted on landowner property
- Involve community leaders
- Presentations from professionals and landowners
- How to information







Advanced Curriculum Workshops

- Business planning and legal considerations
- Group activity
- Design a prospective enterprise
- Present business plan to audience
- Wildlife conservation





















Landowner Workshops

- Conducted over 75 events
 - Over 4,000 participants
 - Landownership in 16 states
- Events in 10 states & Sweden







Workshop Survey Results

- Rating 3.8 on 4 point scale
- Participants (99%) met management goals
- ► Participants (75%) will change land use practices







Workshop Survey Results

- Average individual ownership = 850 acres
 - ▶ Forested 43%
 - ▶ Agriculture 22%
 - ▶ Fallow 26%
 - ▶ Wetlands 9%







Workshop Survey Results

- Expected annual earnings
 - > \$28,415 per landowner
 - > \$17 per acre revenues
 - > \$12 million aggregate cash flow
- Improved 2 million acres in conservation



MISSISSIPPI STATE

Natural Resource Enterprises Landowner Survey









MISSISSIPPI STATE





NRE Landowner Survey Study

- ► Questionnaire
 - ▶ Sections
 - Landownership
 - Cost-share programs
 - Revenues collected
 - NRE's initiated
 - Informational needs
 - Demographics







NRE Landowner Survey Study

- Landowner responses pooled
- Response rate 45%
 - \triangleright n=514
- ▶ Information searching
 - ▶ Website
 - ▶ Wildlife management
 - ▶ Business resources
 - Upcoming events







NRE Landowner Survey Study

- ► Video training (72% interested)
- ► Binder was favored (65%)
 - ► Wildlife mgt. (82%)
 - ► Timber mgt. (80%)
 - Legal issues (76%)
 - Wildlife foods (74%)
 - Agritourism (63%)
 - ► Fee hunting (62%)
 - Business planning (62%)

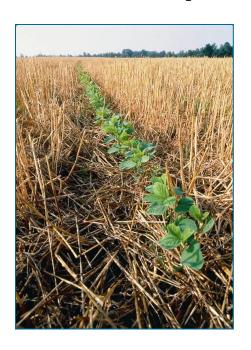






Landownership Trends

- Event attendees (landowners 91%)
- Land use
 - ▶ Agriculture (78%)
 - ▶ Forestry (63%)
 - ▶ Personal recreation (61%)
 - ▶ Fee access (22%)







Landownership Trends

- ► 543 acres on average
- ▶ 16 states; n=290
 - ▶ Forest 366 acres
 - N=437
 - ▶ Agriculture 195 acres
 - n = 352
 - Dother 101 acres
 - n = 281







Conservation Practices

- Conservation implemented (n=118) on 14,464 acres (122 acres/farm)
 - ⊳Mowing 56%
 - ▶ Wildlife plantings 50%
 - ▶ Herbicide 43%
 - Disking 34%
 - ▶ Prescribed fire 30%
 - ▶Timber mgt. 29%







Conservation Practices

- ► Information requested (n=294)
 - ▶ Wildlife plantings (47%)
 - ▶ Herbicide (39%)
 - ▶ Pond management (36%)
 - ▶ Forest thinning (32%)
 - ▶ Prescribed burning (29%)
- ► 51% requested help





Cost-share Assistance

- ► 48% participated; \$5,000 payment
 - \triangleright CRP n=97
 - 203 acres on average
 - \triangleright WRP n=29
 - 140 acres on average
 - \triangleright WHIP n=52
 - 46 acres on average
 - \triangleright EQIP n=49
 - 37 acres on average





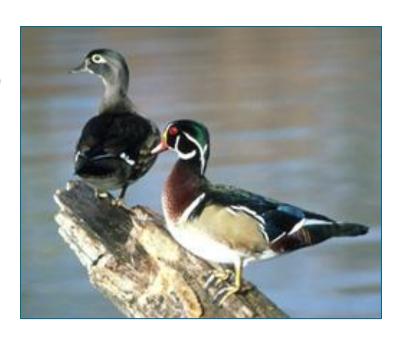
Revenues Collected

▶ 164 landowners initiated NRE's

- ► Fee hunting (n=40)
- Hunting leases (n=46)
- Tourism/agritainment (n=30)

Featured species

- ▶ Deer (n=101)
- ► Turkey (n=62)
- Squirrel (n=27)
- Waterfowl (n=24)
- Mourning dove (n=21)
- Rabbit (n=21)







Revenues Collected

NRE revenues

- Averaged \$13,387 per landowner
 - > \$2.2 million from sample
 - \$9 million cash flow in total
- On 701 acres per farm
 - On 115,043 total acres
- Farm revenues \$21/acre
- ▶ 69% reported that revenues met expectations







Revenues Collected

Motivations

- Income potential (96%)
- Land management and conservation (82%)
- Recreational potential (81%)
- Improve wildlife and fish on property (81%)
- Hobby and enjoyment (80%)

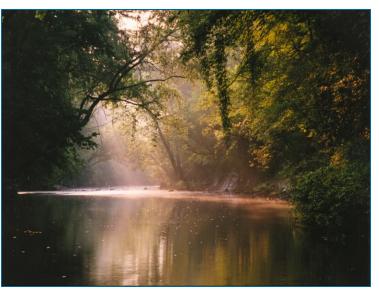






Business Planning

- Most did not have business plan or marketing plan
 - > 90%
 - Primary clientele
 - Adult hunters
 - Families
 - Out-of-town guests
 - Word of mouth
 - Average customer base
 - ► 171 annually







Informational Needs

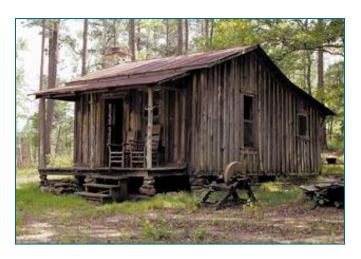
- ► Increasing wildlife on land (#1)
- Concerned about liability (#2)
 - Insurance
 - Screen clients
- Topics wildlife and fish, legal issues, forestry, conservation practices, fee hunting and fishing
- ► Interested in advanced NRE training (80%)
 - Workshops preferred





Demographics

- ► 63% male; 36% women
- > 56-75 years old (56%)
- ▶91% Caucasian
- ▶ Wide income range
- ► 67% college graduate
- ► 52% lived on land; 48% did not
 - ▶88 miles on average away







Future Directions

- Land management and advanced workshops
 - ▶ Video & online modules
- High demand
- Continue to survey participants
- Monitor impacts







Value-added Benefits to landowners & communities

- Enhance income and economic development
- Conservation
- ► Enhance wildlife
- Control access
- Promote land stewardship and retention



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