



Indiana Department of Natural Resources – Division of Forestry

Forest Stewardship Coordinating Committee

Tuesday, September 24, 2013

Morgan Monroe State Forest, Training Center, Fire Headquarters, 6220 Forest Road Martinsville,
IN 46151

[Click here for map](#)

Agenda

9:30 am	Registration & (optional) tours of new training center	
9:50 am	Welcome & introduction	John Seifert, State Forester & Director, IDNR – Division of Forestry
10:05 am	Remarks from the director of Indiana Department of Natural Resources	Cameron F. Clark, Director, Indiana Department of Natural Resources
10:20 am	Indiana Wildlife Action Plan.	Amanda Wuestefeld, Julie Kempf, IDNR – Division of Fish & Wildlife
10:45 am	The Hardwood Ecosystem Experiment update on research results	Andy Meier, Project Coordinator Purdue University, Department of Forestry and Natural Resources
11:15 am	AmeriFlux/FLUXNET tower	Kim Novick, Associate Professor, Edward Brzostek, Postdoctoral Fellow, Indiana University
12:00 pm	Lunch (provided by the Division of Forestry)	
12:45 pm	State and private lands forest inventory update (FIA and CFI Plots)	Joey Gallion, Forest Product Specialist
1:15 pm	Division of Forestry program and project updates: Cooperative Forest Management, Forest Legacy, federal grant projects	IDNR – Division of Forestry: Phil Wagner, Assistant State Forester Brenda Huter, Stewardship Coordinator Chris Gonso, Ecosystem Services
2:00 pm	Roundtable reports	All Attendees
2:30 pm	Morgan-Monroe State Forest management field tour	Jim Allen, Manager & Dave Vadas, Resource Manager, IDNR – Division of Forestry
4:00 pm	Adjourn	

Indiana Forest Action Plan

- 1.) Conserve, manage and protect existing forests, especially large forest patches**
- 2.) Restore and connect forests, especially in riparian areas**
- 3.) Expand Best Management Practices, with special attention to invasive species**
- 4.) Coordinate education, training, and technical assistance, especially to develop strategic partnerships with land-use decision makers**
- 5.) Maintain and expand markets for Indiana hardwoods, especially those that are sustainably certified and for local use**

Indiana Forest Action Plan: <http://www.in.gov/dnr/forestry/5436.htm>

Forest Stewardship Coordinating Committee: <http://www.in.gov/dnr/forestry/6252.htm>

Please RSVP to cgonso@dnr.in.gov if you will be attending.

1. Project background
2. Experimental design
3. Initial results
4. Future directions

Outline

THE HARDWOOD ECOSYSTEM EXPERIMENT

OBJECTIVES AND EARLY RESPONSES TO
TREATMENT

INDIANA DEPARTMENT OF NATURAL RESOURCES
FOREST STEWARDSHIP COORDINATING COMMITTEE MEETING

MARTINSVILLE, INDIANA

24 SEPTEMBER 2013

Andy Meier, Project Coordinator

Indiana's Wildlife Action Plan



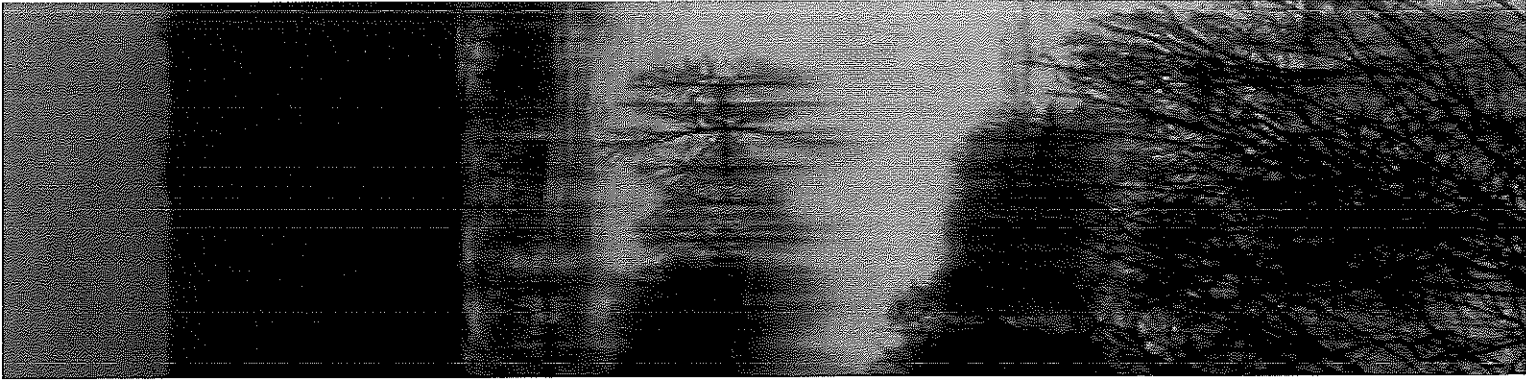


The Vision

Indiana's State Wildlife Action Plan will be a guiding plan to move a diverse conservation community towards the shared goal of enhancing and conserving fish and wildlife resources.

A short history

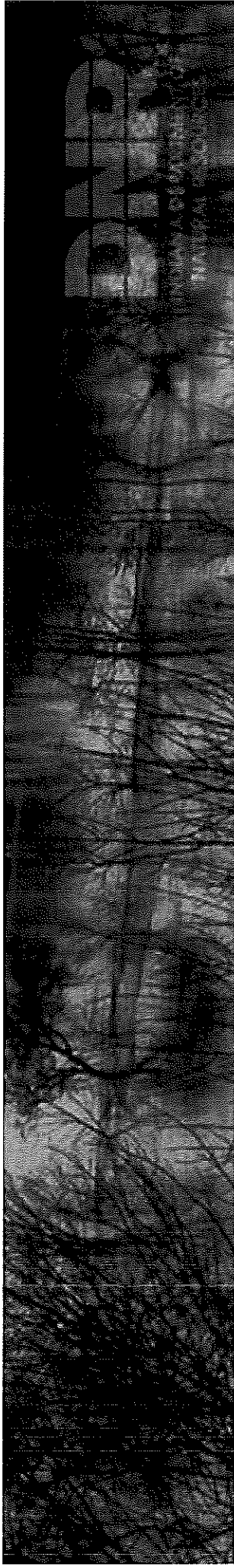
- First meeting in February 2013
- Common interests:
 - Work together & collaborate
 - Be more effective (Avoid random acts)
 - Have shared vision & priorities
 - Increase awareness for wildlife & natural resources
 - Increase/restore funding for conservation programs



Forging a Path for the Future

By the end of 2015:

- Be fully integrated throughout the diverse conservation community
- Increase collaboration and bridge efforts
- Continue protecting species of greatest conservation need
- Establish a way to collectively track conservation activities

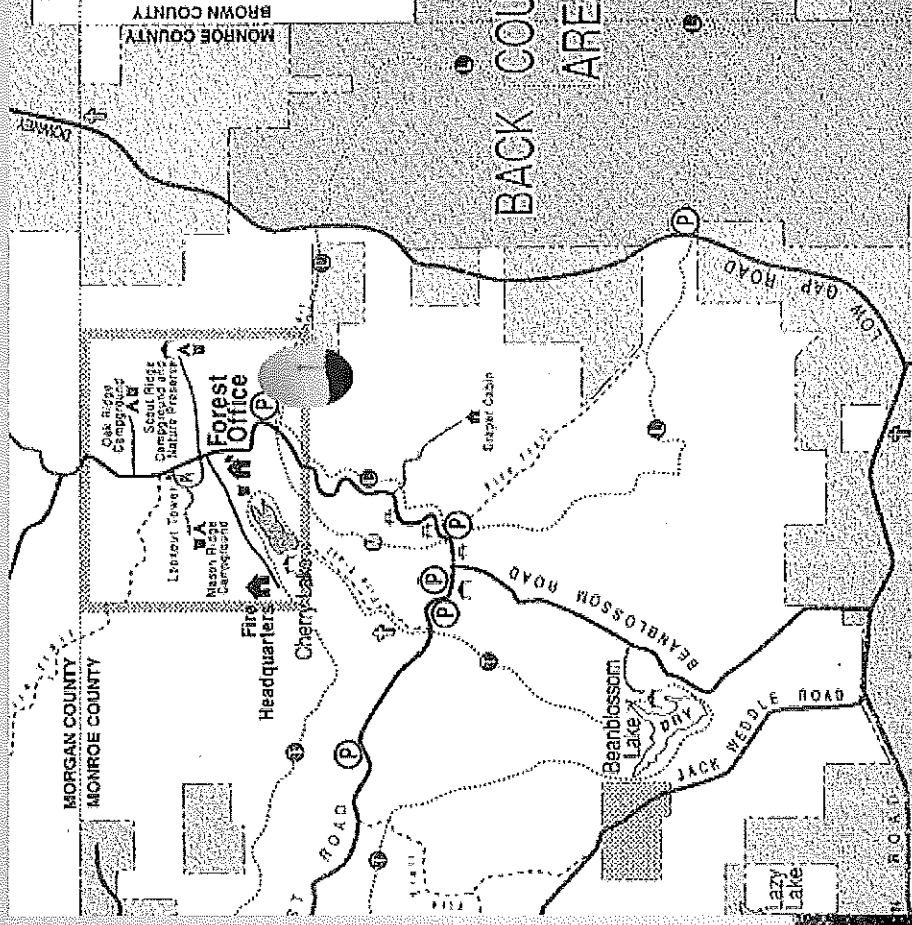




Next steps

- Kick-off Partner/Public meetings
 - September
 - Assessment & Feedback opportunities
- Selection of Species of Greatest Conservation Need
- 2014
 - Data collection & survey
 - Establish actions & priorities

The Morgan-Monroe State Forest flux tower: history, context, and some recent findings



Kim Novick (IU SPEA) & Eddie Brzostek (IU Dept. of Biology)



ACKNOWLEDGEMENTS:

Funding provided by Office of Science (BER), US Department of Energy, through the Midwestern Center of the National Institute for Global Environmental Change (NIGEC), the National Institute for Climate Change Research (NICCR), the Terrestrial Carbon Program (TCP), and the Terrestrial Ecosystem Sciences (TES) programs.

Thanks to the Indiana DNR and IU Research and Teaching Preserve for providing logistical support over the years

This project involves many current and past IU faculty, post-docs, technicians, and students, including:

Faculty: Hans Peter Schmid, Sue Grimmond, Danilo Dragoni, JC Randolph, Rich Phillips, Faiz Rahman, Tom Evans

Post-Docs: Daniel Sims, Craig Wayson, Andrew Oliphant, Hong-Bin Su

Technicians: Tyler Roman, Steve Scott

A large number of current and prior PhD, MS, MPA, BS, and BA students

Chronic water stress reduces carbon storage in a Eastern deciduous forest

Edward Brzostek, Danilo Dragoni, Hans
Peter Schmid, A. Faiz Rahman, Daniel
Sims, Craig A. Wayson, Daniel J.
Johnson and Richard P. Phillips



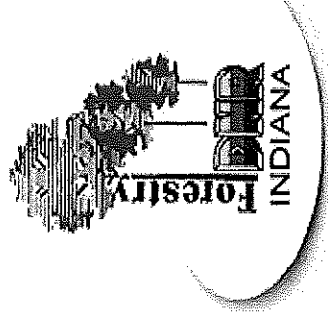
Summary

- Chronic water stress has caused shifts in phenology and reductions in the strength of the C sink at MMSF despite longer growing seasons and increased WUE.
- Increasing water stress is not only influencing physiology (GPP declines) but altering wood production – a C pool which dominates long-term C storage.
- Predicted increases in water stress have the potential to cause substantial declines in the C sink of the Eastern deciduous forests.

State and Private Lands Forest Inventory Update

Forest Stewardship Coordinating Committee

Tuesday, September 24, 2013



Joey Gallion

Forest Resource Information

Forest Inventory Program Coordinator

3 Different Programs

- **FIA**
 - Partially federally funded
 - Covers entire state
 - Covers all ownerships
 - 1 plot/6,000 acres
 - Data updated annually
 - Comprehensive report every 5 years
- **CFI Properties**
 - State forest properties
 - 1 plot/40 acres
 - First 5 year cycle completed
 - Comprehensive report “hot off the press”
- **CFI Classified Forests**
 - Private lands in classified forest program
 - 1 plot/200 acres
 - Second year of plot establishment
- **All 3 programs currently on a 5 year plot remeasurement cycle**

State Forest Properties

- Annual tree harvest per acre = 0.512
- Average number of trees per acre = 404
- Average number of trees cut from total # of all trees = 0.0012 trees/acre
- # of commercial size trees per acre ($>10''$) = 50
- % of commercial size trees cut of all trees = 1.0%
- Average tree volume of harvested trees = 186.66 board feet (20" 2 -12' log tree)
- % of standing tree volume harvested = 1.0%
- % of land harvested annually = 3.0%

Highlights of Report

- **155,725 total acres; 149,727 forested acres with the balance in non-forest (i.e. campgrounds) and water**
- **95% of the forested acres are hardwoods**
- **95% of the forested acres are sawlog-sized stands**
- **Forests contain 59.4 million live trees**
- **Sugar Maple trees and seedlings are more abundant than any other species**
- **337.4 million cubic feet of total live tree volume**

Highlights of Report

- 337.4 million cubic feet of total live tree volume
- 1.379 billion board feet Doyle of sawlog volume
- White Oaks followed by Red Oaks are the species groups with the most sawlog volume
- Nearly half of the sawlog volume is considered grade 1 or 2
- Growth exceeds harvest by at least a 2:1 margin
- Multiflora rose, Japanese honeysuckle, and stiltgrass are the most common invasive species

**COOPERATIVE FOREST
MANAGEMENT, WILDLAND
FIRE, CONSERVATION,
EDUCATION, URBAN
FORESTRY**

Cooperative Forest Management

- ▣ We still have twenty districts
- ▣ We have to be creative in covering all counties
 - District 14: Zack Smith and Donna Rogler
 - District 8: Ali Cline (part time)
 - Hired one full-time Asst. District Forester to assist several district foresters
- ▣ Shift to Excess Residential property tax classification is still pushing people to the Classified Forest and Wildlands Program

Wildland Fire

- ▣ Most work is done through the volunteer fire departments with grants, equipment, training and technical assistance
- ▣ Funds from State Forest Timber sales go to support volunteer fire departments
- ▣ Indiana sent three 20 person fire crews west this summer made up of state, federal, and local resources

Conservation Education

- ▣ Using the Training Center as a central point for a multi-day forestry education program targeted to teachers
- ▣ Producing You Tube video clips focused on a variety of forestry education topics.
- ▣ Pursuing grant funds to expand on the Forests at Work DVD.

Community and Urban Forestry

- ▣ Hired a new Community and Urban Forestry Coordinator- Tiffany Arp
- ▣ Continue to work with communities and non-profits to lead a state wide program.
- ▣ Developing a core group of volunteers remains a primary component of the program.

