

Challenges of Fire Protection and Suppression Across Multiple Forest Ownerships

Society Of American Foresters
Michigan Conference
November 2, 2012
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MI Dept of Natural Resources

Presentation Points

- Overview of 2012 fire season
- Overview of Duck Lake Fire
- MIDNR Role and Responsibilities
- Other Agencies Responsibilities
- Challenges
- Fuels and Fuels Management
- Prevention and Value Protection
- Prescribed Burning
- · Private Lands Assistance

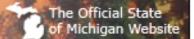


Fires to Date for 2012



Wildland Fire Department of Natural Resources

Michigan.gov



Michigan.gov

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Department of Natural Resources Weekly Fire Report for week ending 10/22/2012 10:15:29 AM

Fires Report							
ICC	Fires	Acres	Fires to Date	Acres Burned to Date			
LP	0	0	369	2189.9			
UP	0	0	114	21530.26			
State Total	0	0	483	23720.16			
Prescribed Burns	0	0	37	2362.9			

Structures Report for week ending 10/22/2012 10:15:29 AM

	Upper Peninsula		Lower Peninsula	
Special Problem	Week	YTD	Week	YTD
Structures Threatened	0	245	0	451
Structures Saved	0	123	0	428
Commercial Destroyed	0	2	0	0
Residential Destroyed	0	50	0	6
Out Building Destroyed	0	70	0	17

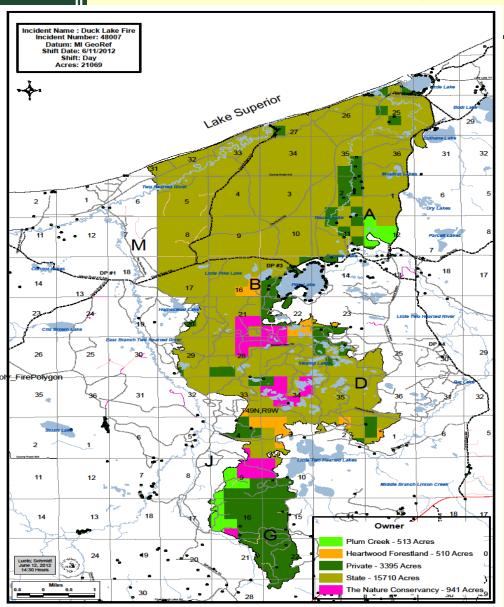
Typical Fire Season

- Last ten years averaged 376 fires and 5,222 acres per year
- Recent large fires:
 - 2012 Duck Lake 21,000 acres
 - 2011 Howes Lake 810 acres
 - 2010 Meridian 8,586 acres and Range 9 1039 acres
 - 2008 4 Mile 1345 acres
 - 2007 Sleeper Lake 18,000 acres





Land Ownership Involved (GIS Calculated)



- Heartwood Forestland
 510 Acres
- Plum Creek513 Acres
- The Nature Conservancy 941 Acres
- Individual Private 3,395 Acres
- State Land15,710 Acres





Values Lost

- 47 homes/cabins
- 1 store
- 1 motel
- -23 garages
- 38 sheds outbuildings
- 26 campers
- 1 logger lost all of his equipment





Statewide Wildfres

- 280 Fires Statewide before the week of May 20th
 - Approximately 1,371 Acres
- 35 Fires Statewide the week of May 20th
 - Approximately 22,598 Acres



Statewide Wildfires







Duck Lake Fire Suppression Resources

- Over 300 personnel on fire
- · 31 engines
- · 14 dozers
- 5 helicopters (1 Sikorsky & 4 Blackhawks)
- 2 airtankers (CL-215 MN-DNR)
- · 2 water tenders
- 44 miles of fire perimeter



Cooperating Agencies

- Michigan State Police
- Luce County Sheriff
- Mich. St. Police EMC
- Luce County EMC
- · Red Cross
- Salvation Army
- Newberry Village VFD
- Bay Mills VFD
- Portage Twp VFD
- Whitefish Twp VFD
- Superior Twp VFD

- Germfask Twp VFD
- Hendricks Twp VFD
- Burt Twp VFD
- Kinross Twp VFD
- · WI DNR
- MN DNR
- MN USFS
- National Guard
- · Wisconsin Hand Crew
- Michigan Hand Crew
- · Luce Co. Road Commission







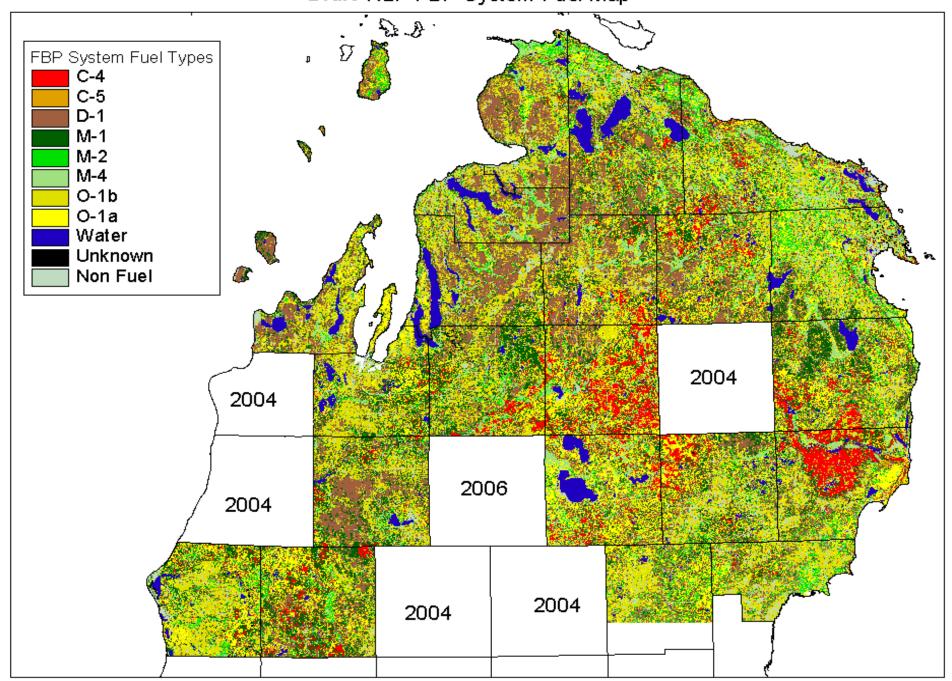
Challenges Across Multiple Forest Ownerships

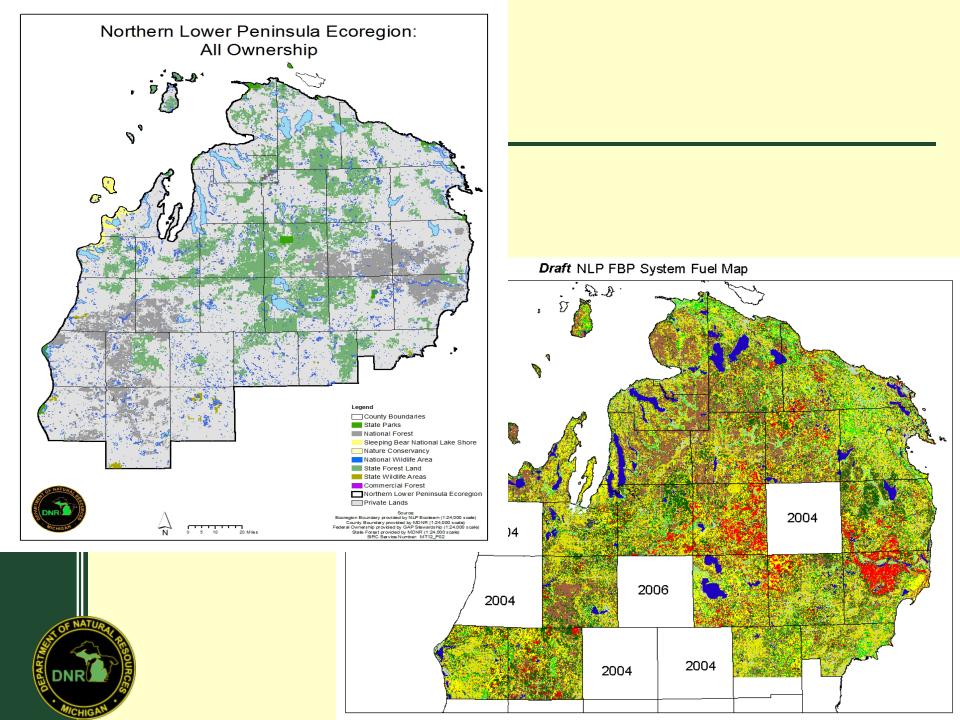
- Fuels cross boundaries
- · Risk- Ignitions, fuels and values
- Working with other agencies
- Public safety
- Value protection
- Educating land owners
- · Using fire in land management

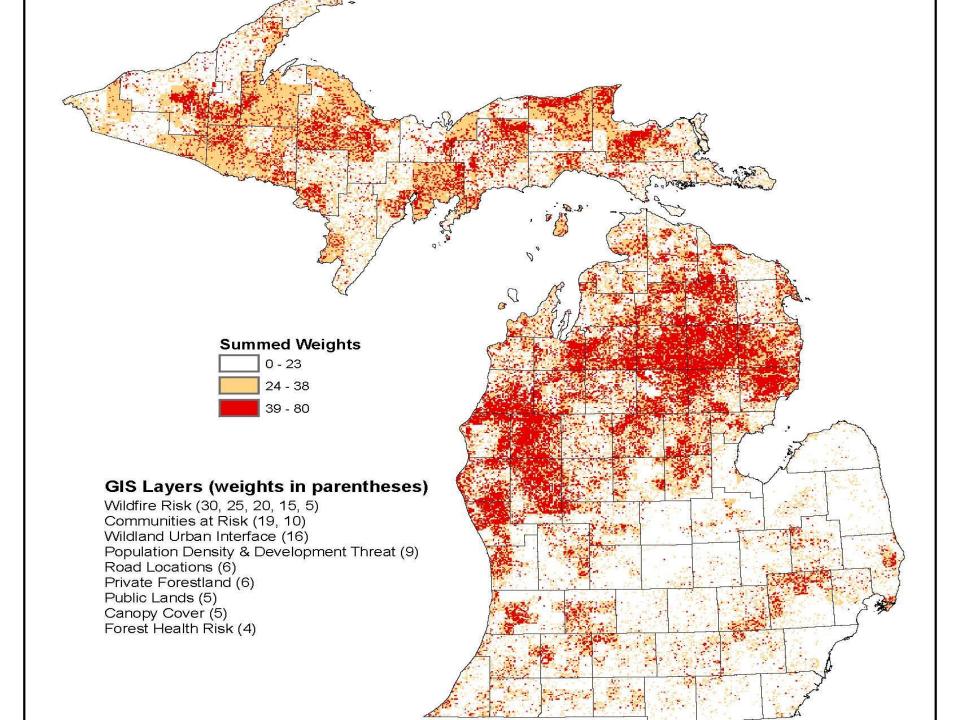


Northern Lower Peninsula Ecoregion: All Ownership

Draft NLP FBP System Fuel Map







MI DNR Responsibilities

- Act 451 of 1994, Natural Resources and Environmental Protection Act
 - Part 515 Prevention and Suppression of Forest Fires
 - Previously was Act 329 of 1969
- Protect 19 million acres (15 million of private and 4 million of state land)



Federal Agencies Responsibilities

- USFS Huron Manistee National Forest
 - 2.2 million acres
 - 1 million acres public, ST and Fed.
 - Fires to date 195 and average around 100 fire per year.
- National Parks Service, Fish and Wildlife Service, Bureau of Land Management



Local Agencies with Responsibility

- Local Fire Departments hundreds of departments that handle an estimated 8 to 10 thousand wildfires
- MI National Guard Camp Grayling and Fort Custer
- County and State Emergency Management

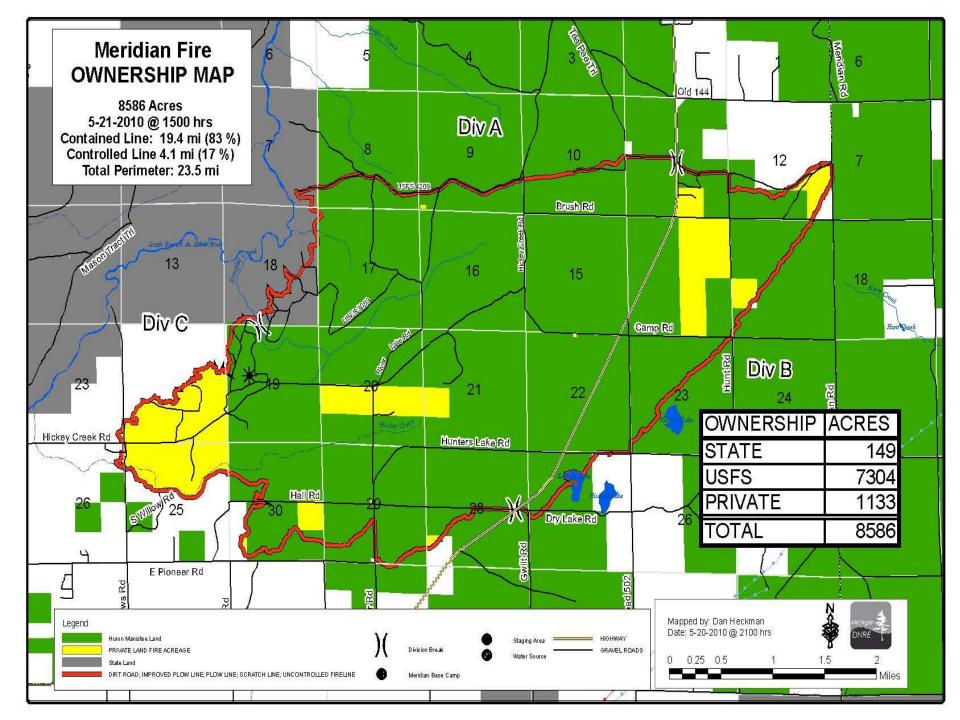


Others

Agreements and Cooperation

- Reciprocal Fire Management
 Agreement with US Dept of Interior and US Dept of Agriculture and the State of MI.
 - Allows local operating plans
 - Address sharing resources, cost reimbursement, coordinating prevention programs and training efforts, communications and coverage areas





Agreements and Cooperation

- MI National Guard two agreements or plans
 - Annual operating plan with Camp Grayling
 - MOU with Military and Veterans
 Affairs for aviation resources



Agreements and Cooperation

- National Weather Service
- Great Lake Forest Fire Compact
- Michigan Interagency Wildfire Protection Association (MIWFPA)
- Michigan Prescribed Fire Council (MPFC)
- Mutual Aid Agreements with many local Fire Departments



What can we control?

- Weather
- Fuel
- How fires start 95% human caused
- · WUI Wildland Urban Interface
- Suppression strategies
- Value protection



Fuels

- Fuels Classifications
- Fuel breaks on a larger scale using natural or man-made breaks
- Fuel breaks around communities and homes
 - CWPP- Community Wildfire Protection
 Plan
 - Firewise





Firewise and CWPP

- Community Wildfire Protection Plans (CWPPs) are a mechanism for communities to address their wildfire risk. These plans promote collaboration and local action, and can work in partnership with Firewise activities.
- MSU http://firewise.msu.edu/



Suppression Strategies

- Life Safety and Value protection increase makes suppression more difficult
- Develop working relationships with other agencies that have suppression responsibility
 - Plans
 - Incident Management Teams
 - Training



Wildland Urban Interface (WUI)

- Development or Parcelization and Development means more ignition sources in the forest
 - People
 - Powerlines
 - Equipment
 - Access- good and bad
 - Life Safety
 - Values



Fire Prevention and Value Protection

Education of land owners

- What causes fires
- How to prevent fires
- Burn permits
- Firewise
- Community education
 - Community Wildfire Protection Plan
 - Homeowner associations









Programs and Resources

- Firewise
 - http://firewise.msu.edu/
 - http://www.firewise.org/

- CWPP Community Wildfire Protection Plan
 - http://www.forestsandrangelands.gov/communities/cwpp.shtml



Programs and Resources

 LANDFIRE - products are designed to be used at a landscape-scale in support of strategic vegetation, fire, and fuels management planning to evaluate management alternatives across boundaries.





P Printer Friendly

GO

Forestry & Water

State Forest

& Participation

Boundaries

Burn Permits

Forest Health

Living Legacies

Business & Industries

Fire Management

Pigeon River Country - A

Concept of Management

Private Forest Land

Regional State Forest Management Plans

State Forest Recreation

Urban and Community

Programs

Management, Planning

Fire Management

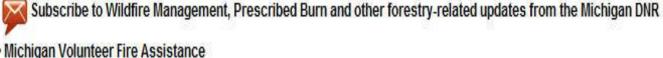
Daily Fire Danger - Fire Danger Rating

Fire Danger Rating factors in daily readings of wind, rain, temperature, humidity, plus the build up of prolonged climate effects to establish a local fire danger. Ratings are displayed for locations on the map specific to the date shown calculated at 2:00 PM. Predicted fire danger ratings can be viewed in advance of the 2:00 PM reading by choosing another date in the selection field.

A- A+ Text Size

T Text Version

Share



- Prescribed Fire in Michigan State Parks
- Michigan Wildfire Information
- Wildfire Protection
- · History & Ecology of Fire in Michigan



Duck Lake Fire / Tahquamenon Falls State Park Area

Open Burning Regulations

New Trash Burning Restrictions Take Effect October 2012

Forest Stewardship Programs



Private Forest Land Programs



The Northern Great Lakes Forest Project

The Northern Great Lakes Forest Project is a record-setting conservation easement totaling 247,806 acres stretching across the Upper Peninsula from Gogebic County in the west, to Chippewa County in the east. The closure of the final phase of the Northern Great Lakes Forest Project in the fall of 2010 marked an unprecedented accomplishment in the conservation of the spectacular forests, lakes, streams and wetlands of Michigan's Upper Peninsula.



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Concept of Management
Private Forest Land
Programs
Regional State Forest

Pigeon River Country - A

State Forest

Fire Management
Forest Health
Living Legacies

Regional State Forest Management Plans

State Forest Recreation

Property Tax Incentive Programs	<u> </u>
Forest Stewardship Program	
Forest Legacy Program	<u> </u>
Related Programs	-I

Prescribed Burning

- MI DNR can only burn on state owned lands
- Average 78 burns/yr and 4100 acres/yr
- Burn for several DNR Divisions, MDOT and Military Affairs
- Objectives include: controlling invasive species, site regeneration, endangered species mgt, opening maintenance, fuels reductions and others



Challenges to burning

- Smoke Management
- Managing for objectives across ownerships – limits large scale burning for ecosystem mgt, T+E and invasive species mgt
- Values adjacent
- · Public concerns



Prescribed Burning Resources

- Landowner Incentive Program (LIP) thru DNR WLD
- Michigan Prescribed Fire Council
 - List of burn consultants
- Coalition of Prescribed Fire Councils
- Joint Fire Science Program



Joint Fire Science Program

Regional Consortia: Connect to Local Experts

Consortia Areas

Alaska

Appalachians

California

Great Basin

Great Plains

Lake States

Oak Woodlands

Northern Rockies

Northwest

The Regional Consortia are local experts that help you get connected with other managers, practitioners and scientists working in your area. They not only provide the best fire information for your area, they demonstrate new knowledge in the field and much more. Click on your area... get connected!



Lake States Fire Science Consortium



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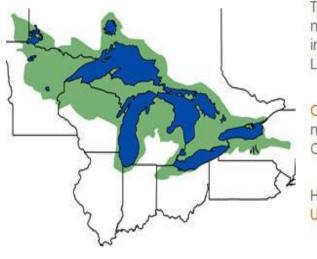
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Welcome to the Lake States Fire Science Consortium



The Lake States Fire Science Consortium is a network of fire managers and scientists interested in the fire-dependent forest ecosystems of the Lake States region. Learn more>

Click here to join and receive our monthly newsletter and other announcements regarding Consortium activities and products.

Have a question about the Consortium? Contact Us.

On-line Learning

Upcoming Webinars:

November 20, 2012

Climate change and forest ecosystem vulnerability in the Lake States: how to account for wildfire?

View All Webinars

Upcoming Events

MI Prescribe Fire Council





Thank You!

Questions?