Lake States Fire Science Consortium

A JFSP KNOWLEDGE EXCHANGE CONSORTIUM

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Good fences, good neighbors? Coordination across property boundaries among private landowners.

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Audio will start at top of the hour.

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Good fences, good neighbors? Coordination across property boundaries among private land owners

Paige Fischer, School of Natural Resources and Environment, University of Michigan Lake States Fire Science October 20, 2016 Webinar

Acknowledgements

Research Team:

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Landscape management

- Wildfire and other pressing threats to forest ecosystems operate on larger scales than typical parcel
- Landscape scale management of wildfire risk is a policy priority
 - DOI Landscape Conservation Cooperatives (LCC)
 - USDA FS-NRCS Joint Chiefs' Landscape Restoration Partnership
 - Wyden Amendment



Meridian Boundary Fire, Michigan 2010. Photo Credit: USFWS



Emerald Ash Borer mortality Photo Credit: Center for Invasive Species and Ecosystem Health

Private forestland owners

- Own large proportion of forest land, mostly in small parcels
- Manage for a wide variety of objectives not just financial investment or home site
- Coordinated management could arguably increase scale and impact and reduce costs



Photo credit: The Stewardship Network

Coordinated management

- Cooperation is based on the benefits of reciprocity to participating parties when combined efforts can achieve more than individual efforts
- Social exchanges generate mutual benefits and obligations
- Risks when actors in interpersonal relationships engage in transactions of an economic nature
- Without assurances provided by formal agreements, potential for failure to meet expectations of reciprocity



Photo credit: Bob Akerly

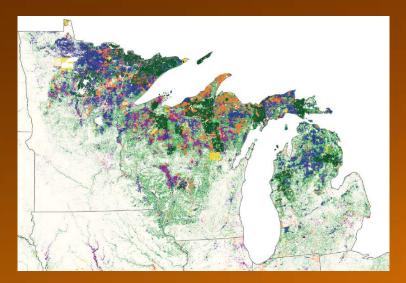
Research questions

- 1. How do forest owners coordinate management?
- 2. What factors contribute to the emergence and success of coordinated management?
- 3. What is the functional role of coordinated management?
- 4. What institutional interventions may be needed to help private owners coordinate to attain ecological and economic benefits?

Methods

- Comparative analysis of cases of coordinated management
- Qualitative interviews with private forest owners in cases
- Qualitative content analysis of interviews

Great Lakes Region





Pacific Northwest



*Family includes individuals, families, trusts, estates, and family partnerships.

**Other private includes conservation and natural resource organizations, unincorporated partnerships and associations, and Native American tribal lands.

Map credit: USFS NRS

Cases

Case (pseudonym)	Location	Owners	Parcel size	Management Focus
Woody Hills Properties (WHP)	SE MI	10	10-300 acres	Restoration and invasive plants
Blue River Properties (BRP)	N MI	26	10 acres	Wildfire risk
Network of Active Environmental Stewards (NAES)	SE WI	70-80	5-100 acres	Restoration and invasive plants
Perry Lake (PL)	N MI	12	1-2 acres	Wildfire risk
	C WA			Forest Health/Wildfire Risk
	E WA			Forest Health/Wildfire Risk
	C WA			Forest Health/Wildfire Risk
	E WA	5	20-100	Forest Health/Wildfire Risk
	E WA	13	~20	Forest Health/Wildfire Risk
	E WA	9	5-200	Forest Health/Wildfire Risk
	E WA	6	5-200	Forest Health/Wildfire Risk
	N CA	7		Forest Health/Wildfire Risk
	OR			
	OR			

Results Social arrangements for coordination

Joint Effort	Type of Joint Effort	Lake States Cases				
		WHP	BRP	NAES	PL	
Joint Planning	Informal Communication (social events, etc.)	х	х	х	х	
	Formal Communication (meetings, etc)		х	х	х	
	Coordinated fundraising (grants, etc.)	х	х		х	
	Sharing Equipment/Tools		Х	Х		
Implementation	Sharing labor (hiring common crew)	х		х	х	10
	Pooling labor (working on each other's properties)	х		х		



Photo Credit: wisowls.org





Photo credit: wisowls.orc

	Lake States Cases					
Factor	WHP	BRP	NAES	PL		
Shared interest/risk	х	х	х	х		
Strong leader	Х	Х	E	х		
Access to expertise outside the group	х	х	E	х		
Social cohesion (trust and familiarity)	х	х	Р	E		
Access to expertise inside the group			Х			
Access to funding	E			Х		
Formal institutions (home owner's association, etc)	Р	х		х		
Full time residency		Х		Р		

Notes: X means factor in emergence and persistence; E means factor in only emergence; P means factor only in persistence

	Lake States Cases						
Factor	WHP	WHP BRP NAES PL					
Shared interest/risk	Х	Х	Х	х			

"Given our overall environment and being locked in with only really one good ingress, egress in the event of a forest fire— it was going to take us all trying to work together."

-BRP Landowner

	Lake States Cases						
Factor	WHP BRP NAES PL						
Shared interest/risk	Х	х	х	х			
Strong leader	х	х	E	х			

"You have got to have someone who keeps it going, keeps it organized, and keeps people interested. If it wasn't for "Don" it would eventually just [dissolved]."

-BRP landowner

	Lake States Cases				
Factor	WHP	BRP	NAES	PL	
Shared interest/risk	х	х	Х	х	
Strong leader	х	х	E	х	
Access to expertise outside the group	х	х	E	х	

"It was "Mark" at DNR who first brought us together. They came out and helped us assess the situation. And the direction they provided for the initial work is what got us started."

-PL Landowner

	Lake States Cases								
Factor	WHP	WHP BRP NAES PL							
Shared interest/risk	Х	х	х	х					
Strong leader	Х	х	E	х					
Access to expertise outside the group	х	х	E	х					
Social cohesion (trust and familiarity)	Х	х	Р	E					

"We had a loose-knit organization to begin with [to address] common causes: roads, plowing, gates and things like that...We were historically used to doing some things in common...So when someone said fire is an important issue [we were able to organize around it]."

- BRP Landowner

	Lake States Cases								
Factor	WHP	WHP BRP NAES PL							
Shared interest/risk	Х	Х	Х	х					
Strong leader	Х	х	E	х					
Access to expertise outside the group	х	х	E	х					
Social cohesion (trust and familiarity)	Х	х	Р	E					

"There were the social relationships that were already in place. We had trust in "Bill" and trust each other...Nobody is trying to skim money out of any of this – only putting money in."

-WHP Landowner

Results Functional role of coordination

	Lake States Cases				
Functional Role	WHP	BRP	NAES	PL	
Increases management skill	Х	Х	Х	Х	
Reduces financial cost of management	х	х	х	х	
Increases access to information about management	Х	х	х	Х	
Inspires self-confidence in management	Х	Х	Х	Х	
Reduces physical burden of management	Х		Х	Х	
Increases access to funding	Х	Х		Х	
Encourages conformance to management standards	х	x	x	х	
Increases area under management	Х	Х		Х	
Improves ecological conditions	Х	Х	Х		

Results Functional role of coordination

Functional Role

Increases management skill Reduces financial cost of management Increases access to information about management Inspires self-confidence in management Reduces physical burden of management Increases access to funding Encourages conformance to management standards Increases area under management

"We are able to accomplish a lot. It gives you a real boost when you go out with a group and get a whole section cleared or a whole area burned. That's a real boost psychologically. And the *learning component—I was complaining about* having to return my saw because it gets so dull and [someone] said, 'No, you don't.' He showed me how to sharpen my saw, and where to buy a saw set and a file. Now I have a set-up for sharpening my saw."

-NAES Landowner

Improves ecological conditions

Discussion of Lake States Cases Coordinated management constrained by risks of non

reciprocity?

Social risks offset by

- high levels of trust
- mutually understood expectations
- low expectations and demands
- respect for individual autonomy

"We still go out and help other people even though we don't ask other people to come help us anymore. I don't ever get the feeling that anybody is concerned about [non-reciprocation]. I have never heard anybody say, "Oh, they are always asking for help with a burn but you never see them coming out to help." At our age we kind of don't get bent out of shape over that." - NAES landowner

"It's expectations. It's common courtesy. If I borrow a tractor, I am not going to run a tank full of diesel through it and return it to them. I am going to fill it back up. Plus, I have kind of become a maintenance guy for some of them...I can weld and have an electrical license and mechanical contractors license."

Discussion of Lake States Cases Institutional interventions needed?

- Limitations of not having formal institutions
 - Inability to engage new/seasonal residents
 - Aging labor pools
 - Funding difficulties
 - Maintaining motivation and engagement

"There is something wonderful about an organization that has decided not to get really formal ...But of course then you put yourself at risk of the ebb and flow of human energies and we're aging so, you know..." "We are a loose social group. When we originally started almost everyone would show for our meetings. But houses turnover, new people come in, and the ten of us or so that are involved with everything, you know, we're the 'bad guys' so to speak..."

-NAES landowner

-BRP landowner

Discussion of Lake States Cases Institutional interventions needed?

- Recognized benefits of more formalized process for funding, coordination and leadership
- Concerns about demanding too much out of people

Opportunities for grants would increase, you would have more participation and the more property owners ...But expecting [someone] to do that on their own time continually – it is not going to work...I put my heart into this stuff for years and I finally just had to step back because I was just doing too much. Yeah, nobody keeps track of what you do. In fact that is probably one reason we like it. It is very loose, it is very unstructured and if you don't go to one of the meetings in the year half of the time they don't know you hadn't been there because nobody is keeping count.

-NAES landowner

-WHP landowner

Policy Implications

- Coordinated management among private forest owners can happen
- Social risks not a deal breaker for coordinated management
- Institutional innovations could help foster social conditions that enable coordinated management
 - Shared risk perception
 - Leadership
 - Access to outside expertise
 - Social networks
- Institutional innovations would need to accommodate
 - Preference for low expectations and demands
 - Need for for individual autonomy

Next Steps

- Finish case studies in Oregon and Northern California
- Distill findings into framework to inform policy and planning
- Report, journal articles and presentations

Lake States Fire Science Consortium

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2016-2017 Webinar Series November 17, 2016

Restoration of fire-dependent pine barren ecosystems in northern Wisconsin – Bridging the gap between research and management practices.

Brian Sturtevant and Christel Kern USDA Forest Service, Northern Research Station



