





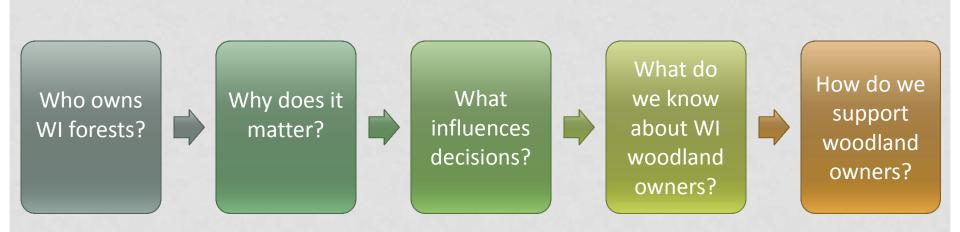
GETTING TO KNOW PRIVATE LANDOWNERS IN WISCONSIN

TRICIA KNOOT, BUREAU OF SCIENCE SERVICES, WISCONSIN DNR <u>TRICIA.KNOOT@WISCONSIN.GOV</u>; 608-516-5978

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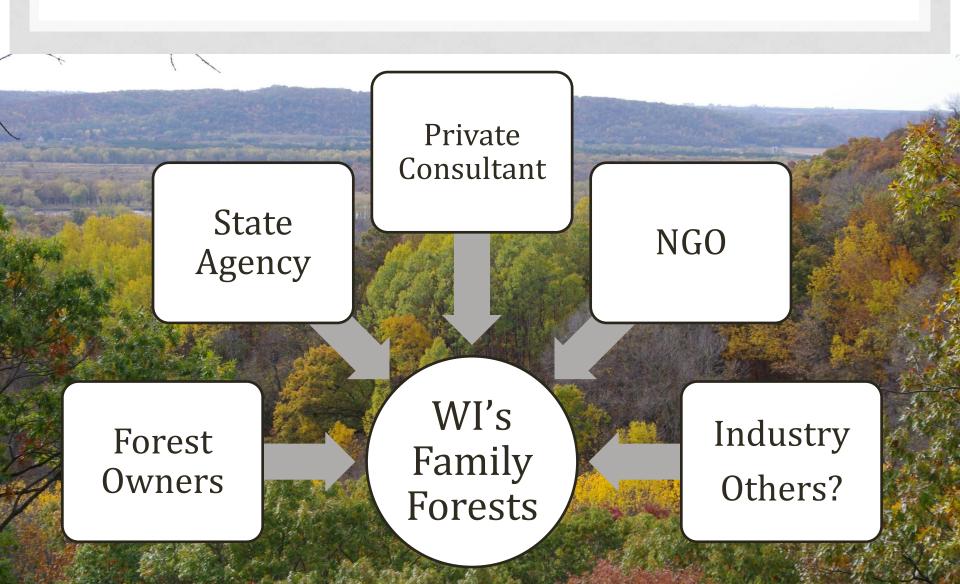


WHERE ARE WE GOING TODAY?





YOUR INTERESTS?





Growing passion for wildlife and forest ecology to....

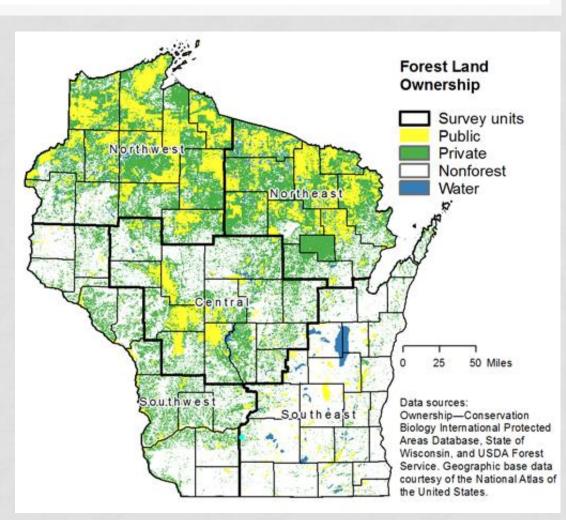
People

3/20/15; T. Knoot; tricia.knoot@wisconsin.gov

"There are two things that interest me; the relationship of people to each other, and the relationship of people to land." - Aldo Leopold

WHO OWNS WI WOODLANDS? IMPORTANCE OF FAMILY FOREST OWNERS

- Collectively, control
 57% of forestland
 (9.8 million acres)
- Nearly double the combined public ownership in the state
- Compared to MI and MN (45% privately owned in MI and MN)

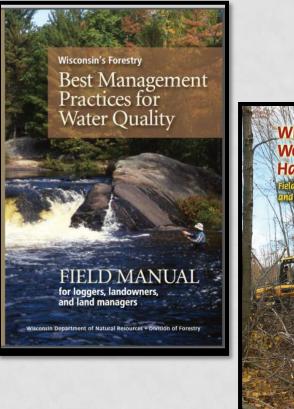




Perry, C. 2014. Forests of Wisconsin. On-line: http://www.fs.fed.us/nrs/pubs/ru/ru_fs6.pdf₆

WHY DOES IT MATTER? CRITICAL DECISIONS

- Ecosystem services
 - Habitat, water quality, timber production
- High biodiversity
 - Listed species declining faster on private lands*
- Ensuring desirable outcomes







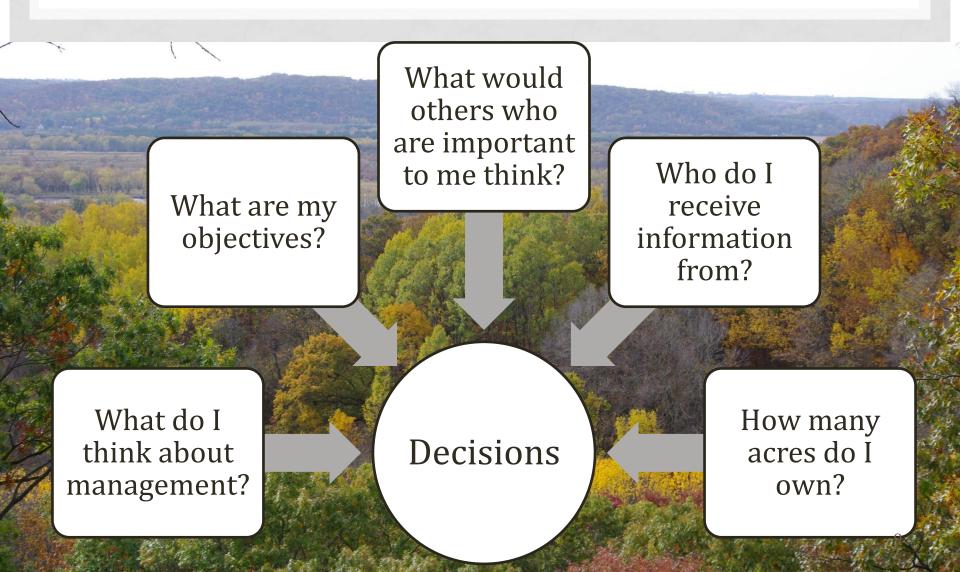
*Bean and Wilcove (1997); Noss et al. (1997)

WHERE ARE WE GOING TODAY?

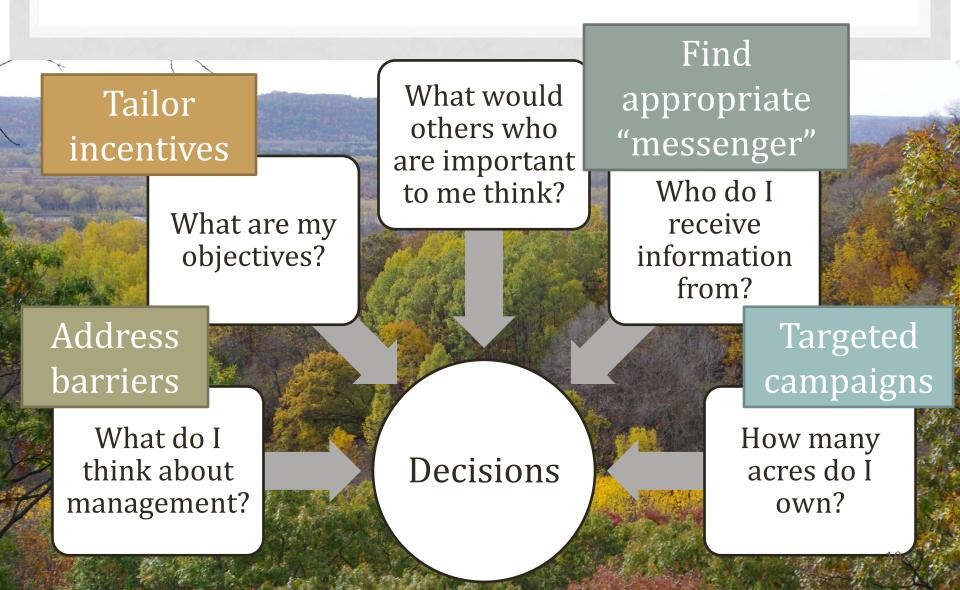




WHAT INFLUENCES LANDOWNER DECISIONS?



HOW IS THE INFORMATION USED?

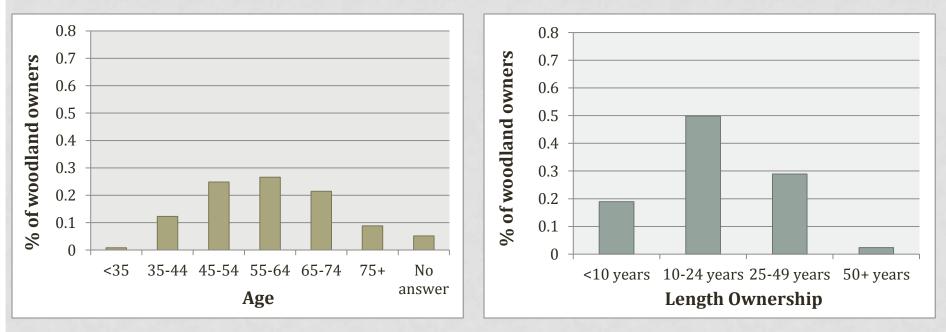






WHAT DO WE KNOW ABOUT WI WOODLAND OWNERS?

- National Woodland Owners Survey (NWOS), USFS 2006
 - 349,000 family forest owners in WI, > 1 ac in size

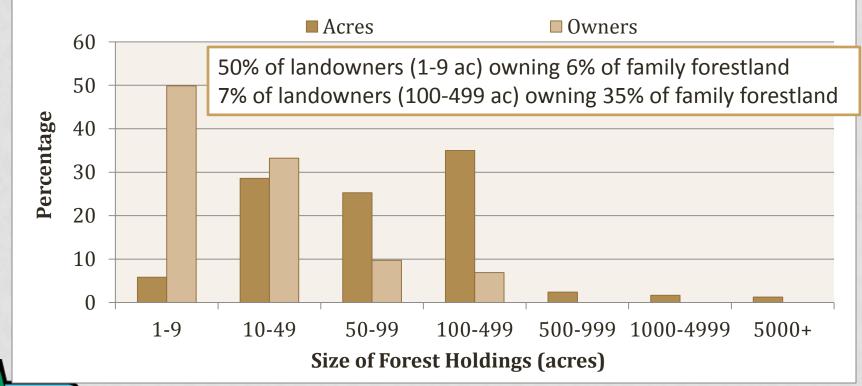




Wisconsin Woodland Owners - NWOS 2006

WHAT DO WE KNOW ABOUT WI WOODLAND OWNERS?

• WI NWOS – 2006: Acreage Size





WHAT DO WE KNOW ABOUT WI WOODLAND **OWNERS?**

• WI NWOS – 2006: Why they own their land?

- 19% Part of a farm
- 55% Part of primary residence
- 22% Part of secondary residence

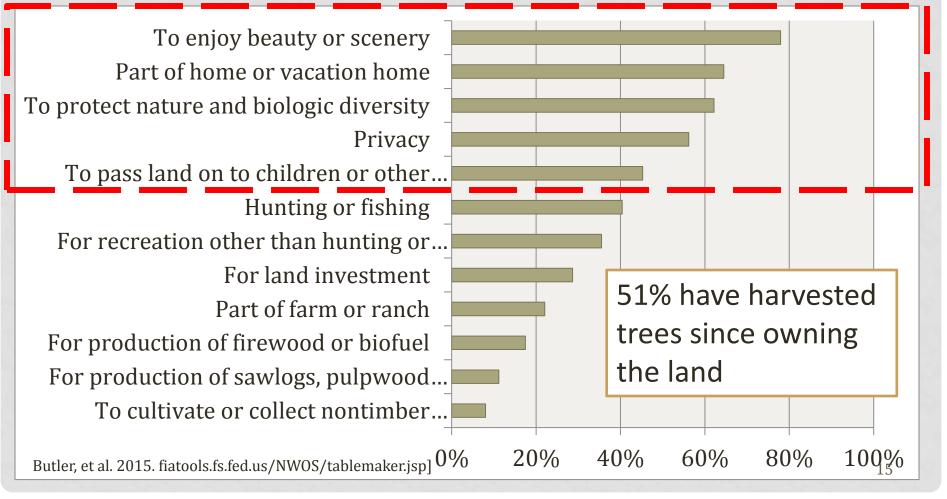






REASONS FOR OWNING WOODLANDS? NON-CONSUMPTIVE USES TOP THE LIST

• WI NWOS – 2006: *Importance?* % of Owners



WHAT ARE THEIR CONCERNS?

• WI NWOS – 2006: *Limits their ability to use their woodland?* Top four in each category (% of woodland owners).



Biophysical

- Insects / plant diseases (52%)
- Fire (49%)
- Air / water pollution (49%)
- Undesirable plants (38%)



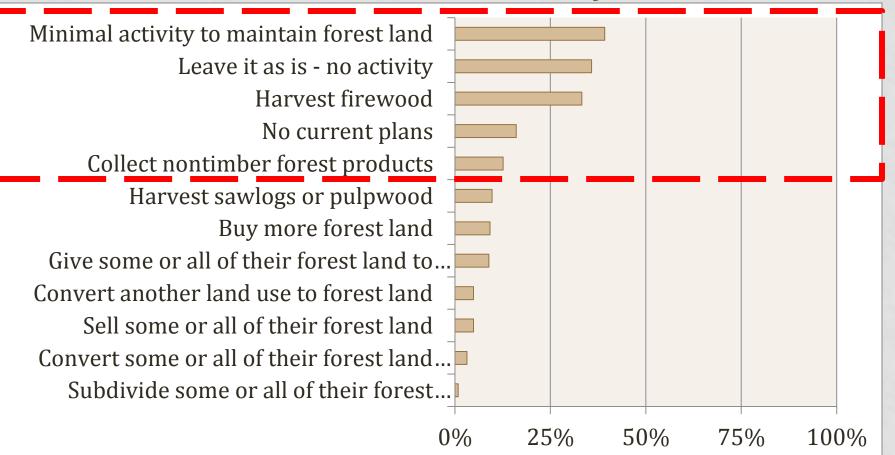
Sociopolitical

- High property taxes (64%)
- Keeping land intact for heirs (52%)
- Trespassing / poaching (49%)
- Development nearby land (49%)



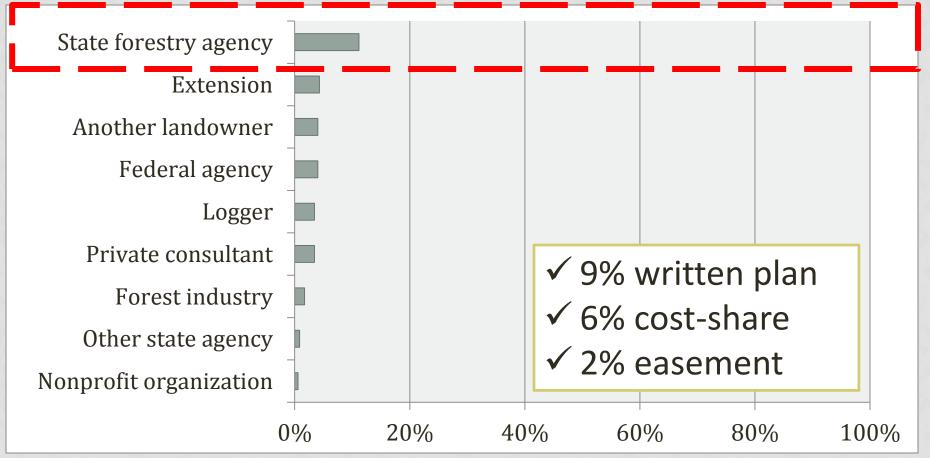
FUTURE PLANS? MINIMAL ACTIVITY – HANDS OFF

• WI NWOS – 2006: *Plans in the next 5 years?* % Owners



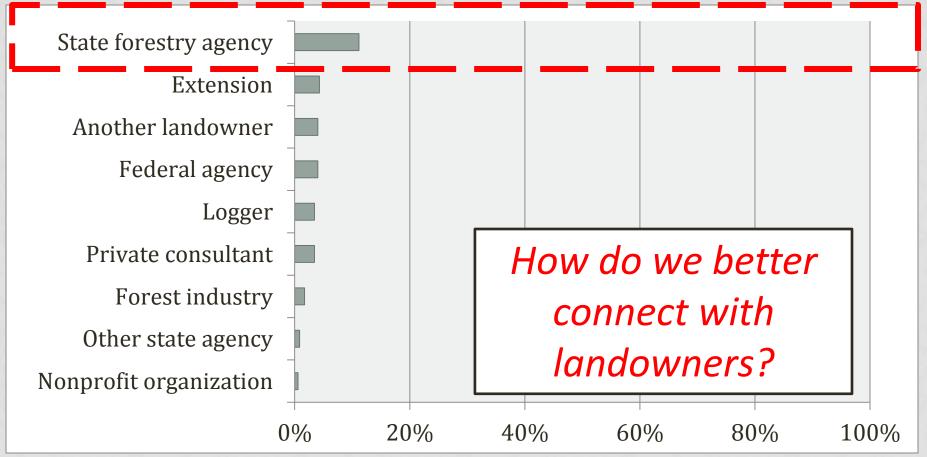
ADVICE (MESSENGERS)? LIMITED CONNECTIONS & FEW PROGRAM ENROLLEES

• WI NWOS – 2006: Who do they receive advice from?



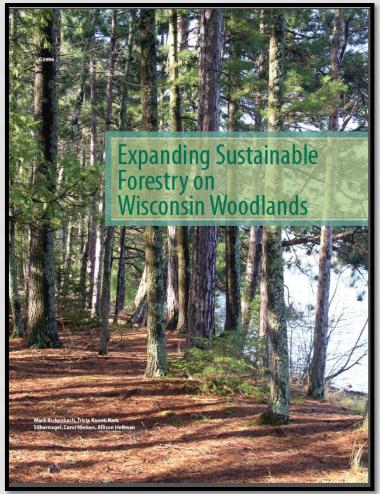
ADVICE (MESSENGERS)? LIMITED CONNECTIONS & FEW PROGRAM ENROLLEES

• WI NWOS – 2006: Who do they receive advice from?



HOW DO WE SUPPORT ACTIVE MANAGEMENT? ECOSYSTEM SERVICES PROGRAMS

- "Expanding sustainable forestry on Wisconsin woodlands."
 - Rickenbach, M., T. Knoot, K.
 Silbernagel, C. Nielsen, and A. Hellman. (2013). UWEX Learning Store.
 Publication G3996.
 <u>http://learningstore.uwex.edu/assets</u> /pdfs/g3996.pdf
- Evaluate "typical" landowner interest in hypothetical programs for birds, water, and carbon.
- Compare MFL and Non-MFL



HOW DO WE SUPPORT ACTIVE MANAGEMENT? ECOSYSTEM SERVICES PROGRAMS

- "Payments for Ecosystem Services: Will a New Hook Net More Active Family Forest Owners?"
 - Knoot, T.G., M. Rickenbach, and K. Silbernagel. 2015. Payments for ecosystem services: Will a new hook net more active family forest owners? *Journal of Forestry.*

RESEARCH ARTICLE

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policy

Payments for Ecosystem Services: Will a New Hook Net More Active Family Forest Owners?

Tricia G. Knoot, Mark Rickenbach, and Kara Silbernagel

Poynetts for ecorytem services offer the potential to financially baseful knowness: in exchange for active finest management. Grees that reactive for the services may be added by the total to these servers who do not participate in typical forestry gragement. To investigate, we surveyed "manparticipating" Waccomin landowners to access that interest in possible payments for ecorytem services. Our design experimentally compared the effects of ecorytem encoding spectration. The services are used and the services are used as a service that the services are used as a service to the service description accession of the services are used as a service to the service description and the service description accession of the services are used as a service to the service description and the service description accesses of the programment, relations on a forestion in the service description accesses are instructioned for the service description and the services are significant exploratory forders. Findings successes that programs are instructioned as the services are significant exploratory forders. Findings success that programs

Keywords: payments for ecosystem services, family farest owners fares



Agend on a second adaptive forest management, in which intentional planning takes into consideration continued and emerging threasts, such as invasive species, tree pests and disease, dimate change, and wildfire risk (Chomesky et al. 2005, Chazdan 2008). However, by key meetics, most family forest owness in the United States are pasive managers; just 4% have a written management plan, and only 14% have neceived advice about their woodlands (Budle 2008).

A passive approach or poor implement tation of forest practices can result in forest degradation, such as the spr d of invasive necies, reduced quality of est pla vine z ent on pri nily for and its ecological and consequences (Nyland 1992, Eron et al. 2002, Knoot et al. 2009). Policy responses, designed to foster active and sussinable forest management, have included technical assistance, education, cost-share, and property tax incentives with mixed results (Kiloote and Blinn 2004, VanBrakle et al. 2013, Butler et al. 2014). In the case of financial incentives (i.e., cost-share and property tax programs), such programs have had limited appeal (Greene et al. 2007, Maker et al. 2014). For example, only 6% of family forest owners nationally have participated in at least one cost-share program (Butler 2008). Although most of these programs have evolved a broader focus beyond imber and new nongovernmental opportu-

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ECOSYSTEM SERVICES PROGRAMS?

- Over 1/3 of typical landowners interested in payments for ecosystems services programs. New audience?
- No clear preference for "type" (birds, water or carbon) of service. Marketing programs?

Rickenbach, M., T. Knoot, K. Silbernagel, C. Nielsen, and A. Hellman. (2013). Expanding sustainable forestry on Wisconsin woodlands. UWEX Learning Store. Publication G3996. http://learningstore.uwex.edu/assets/pdfs/g3996.pdf

ECOSYSTEM SERVICES PROGRAMS?

Program requirements deter interest

- <u>Except</u> tree planting or removing invasives, which increased likelihood. Promote planting and invasive removal?
- 13%indicated land transfer is very likely, another 19% somewhat likely in next 10 yrs
 - Next generation land owner?

Rickenbach, M., T. Knoot, K. Silbernagel, C. Nielsen, and A. Hellman. (2013). Expanding sustainable forestry on Wisconsin woodlands. UWEX Learning Store. Publication G3996. http://learningstore.uwex.edu/assets/pdfs/g3996.pdf

- Intergenerational transfer?
- Study by the Pinchot Institute for Conservation, 2007
- WI, 260 interviews completed, 46% of counties



http://www.pinchot.org/gp/Next_Generation

- Study by the Pinchot Institute for Conservation, 2007
 - Most offspring are satisfied with management
 BUT, > 50% have not been involved with management (and the majority of those not involved don't want to be)

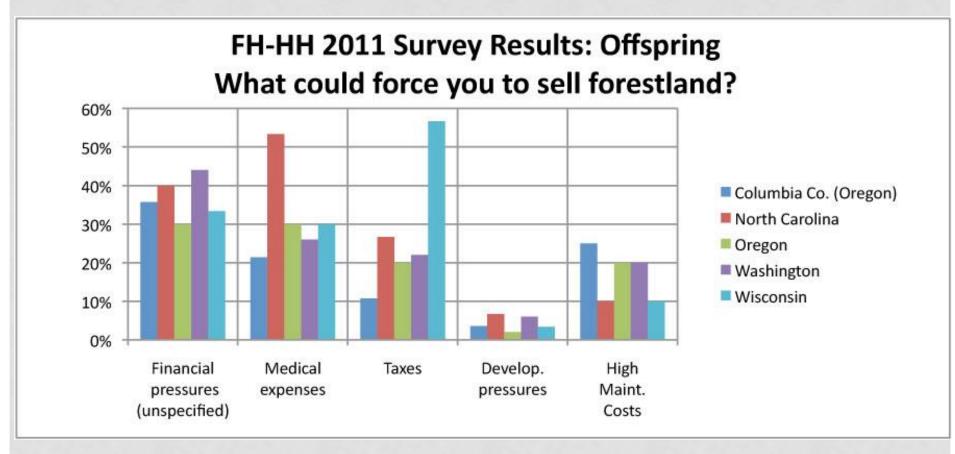
 ✓ Over 50% not aware of programs/agencies, especially females (62% females, compared to 48% males not aware)

- Study by the Pinchot Institute for Conservation, 2007
 - ✓ Challenges?
 - Taxes, time, proximity
 - Most important to maintain family forests?
 - Agreement among family members even higher than tax relief, or \$ for ecosystem services

✓ Force to sell?

• Need for cash, medical expenses, \$ for taxes

http://www.pinchot.org/gp/Next_Generation

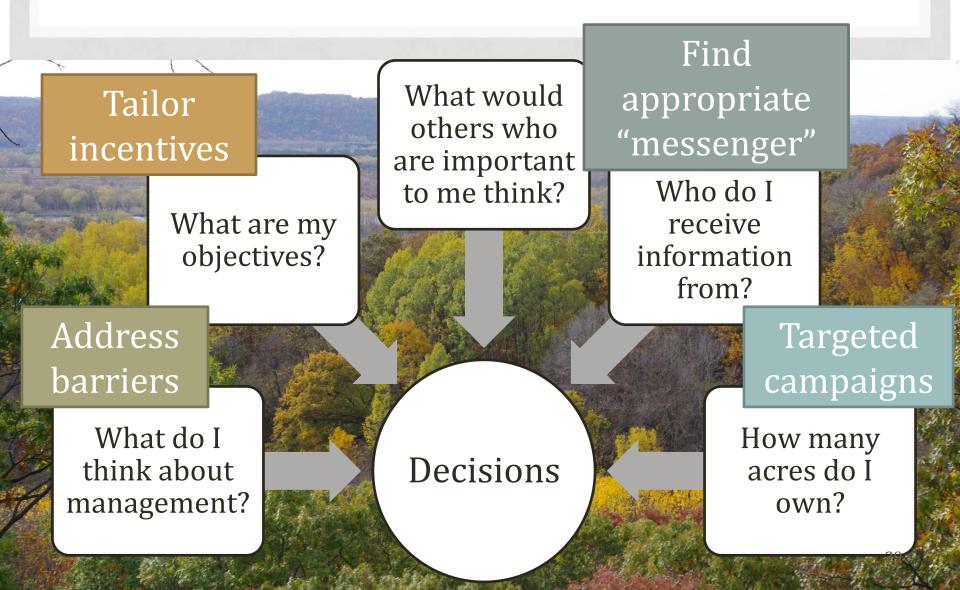


WHERE ARE WE GOING TODAY?





HOW IS THE INFORMATION USED?



HOW DO WE SUPPORT WOODLAND OWNERS?

Address barriers and concerns

- Forest Health-Human Health Initiative (FHHHI), Pinchot Institute
 - Connect health coverage options with forest carbon markets
 - ATreeMTM cards (90%)
 - Community health care (10%)



http://www.pinchot.org/gp/FHHHI

HOW DO WE SUPPORT WOODLAND OWNERS?

- Tailor incentives and programs
- Find appropriate "messenger"
 - DNR and Extension currently, but next generation lacking awareness
- Targeted campaigns
 - Driftless Forest Network (Steve Swenson), Young Forest Initiative (Callie Bertsch)
- Other Examples?

"ENGAGED AND ACTIVE" WOODLAND OWNERS?

• What are some management options? (Mike Mossman)



QUESTIONS?

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