## Analyzing State Regulatory Impact on Small Forestland Owners

Forest Practices Board February 10, 2021

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### Background & Census

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## The 2019 Washington State Parcel and Forestland Databases

- > Statewide databases that integrate:
  - County Assessor (parcel boundary, land use, owner) data
  - Stream and riparian management zone data
  - Forest cover data
- > Previous versions were developed in 2001 (non-spatial), 2007, 2009, 2010, 2012, 2014 (partial)
- > Foundation for:
  - Washington State Biomass Supply Assessment
  - Western Washington Hardwood Assessment
  - Advanced Hardwood Biofuels Northwest & NARA
  - WSU Extension landowner outreach
  - Over 240 projects used by 59 agencies
- > Companion Agland Database for Washington State Conservation Commission

#### SFLO Trends - 2007 vs 2019 Forestland Database

- > To analyze change in SFLO, we identified the first spatial data for each county
- > We determined the matching parcel(s) in 2019 allowing us to know fate
- > USGS changed how forest cover is estimated in NLCD
  - 2007 was reprocessed using new NLCD to be consistent with
     2019
  - Original and new 2007 SFLO numbers differ and cannot be compared directly
- > Surveys were sent to SFLO in 2009; Fate of respondents in 2019 was integrated into conversion risk model

#### Results – SFLO in 2019

- > **202,500 owners**
- > 261,800 parcels
- > 4.8 million parcel acres
- > 2.9 million forest acres
- > Western Washington:
  - 49% of forest acres
  - 75% of owners
  - 71% of parcels
- > Owner class <20 acres:
  - 77% of owners
  - 22% of forest acres

#### Results by:

- Number of owners, number of parcels, parcel acres, and forest acres
- Owner size class: < 20 acres,</li>
   20 100, 100 1000, 1000 5000, 5000+
- Land use class: Forest Or Natural, Agriculture, Residential, Developed, Other
- Owner class: for change from/to
- Geographic area: half state, county, WRIA, WAU

#### Results – Trends in SFLO – 2007 to 2019

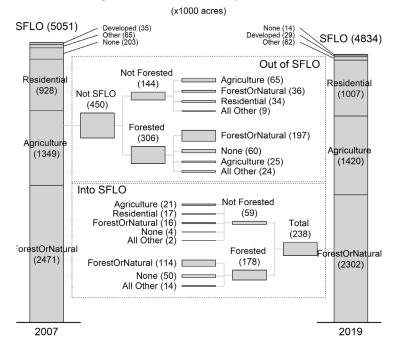
- > Owners: from 201,000 to 218,000 (+17,000)
- > Parcels: from 256,500 to 261,800 (+5,300)
  - Increased for all size classes
  - Residential increased by 12,000
  - All other land use classes decreased
- > Parcel acres: from 5.04M to 4.84M (-209,500)
- > Forest acres: from 2.99M to 2.88M (-103,000)
  - Decreased for 3 smallest size classes (<1000 acres)</li>
  - Increased for 2 largest size classes (>1000 acres)
  - Residential increased 48,600 acres
  - Forest Or Natural decreased by 121,500 acres

#### Results – Trends in SFLO – 2007 to 2019 (cont.)

- > Change in parcel acres (-209,500) is a *net* change:
  - 450,000 acres transitioned out of SFLO
  - 240,000 acres transitioned into SFLO

Change in SFLO Parcel Acres by Owner Class (x1000 acres) SFLO (5051) Tribal SFLO (4834) (36)Tribal (27)Not Forested Out of SFLO (144)Private Other (135) Total All Other (9) (450)Private Industry (107) Forested Private Other (60) (306)Tribal Other (30) Private Conservation (25) Municipal Other (22) State Other (21) Tribal Industrial (20) Private All Other (21) Private (5015)(4806)Into SFLO Not Forested (59)Private Other (58) Total All Other (1) (238)Forested Private Industry (92) □ (178)State Other (11) All Other (23) 2007 2019

#### Change in SFLO Parcel Acres by Land Use Class



# Demographics, Objectives & Concerns, Evaluation: SFLO Office, FREP, FFFPP, Alt Plans

Presented by: Dr. Brian Danley Assistant Professor

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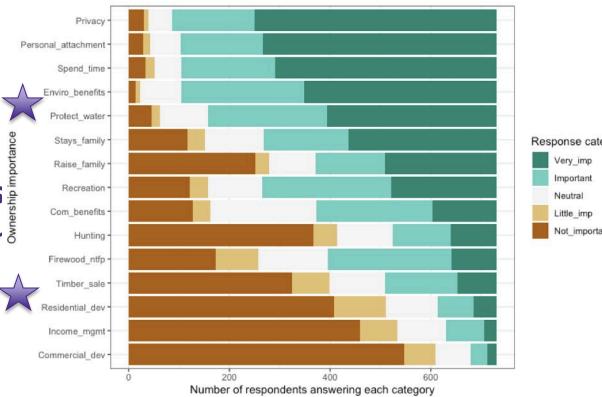
#### Who are Washington's SFLOs?

- > The average SFLO is between 62 and 65 years old, and average income is between \$105k-\$125k per year.
  - Mix of higher-income earners and retired individuals.
- > About 14%, between 25,500 and 50,400, anticipate selling SOME forest land in the next 5 years.
- > About 1 in 5 submit a Forest Practices Application over 20 years (between 42,000 and 69,000).
- > \*Positive relationship between larger acreage and stronger interest in income and investment.
  - Important explanation of several key results

## Objectives and concerns

- > Owner objectives are not at odds with public objectives!
- Top concerns are property taxes,
- wildfire, and nearby development.
  - Forest Practices Regulations rank lowest (link to objectives)
- > Many owners first encounter Forest Practices Regulations when they have a family/financial reason to cut and need to navigate the rules.
  - NOT normally thinking about optimal rotation.





## **Evaluation: Small Forest Landowner Office & FFFPP**

- > The SFLO Office does *NOT* have adequate resources to implement its legislative mandates.
  - BUT, it gets good reviews from SFLOs themselves. Similar to extension foresters and conservation districts.
  - Many positive remarks about Forest Stewardship program.
- > The Family Forest Fish Passage Program (FFFPP)
  - Consensus among stakeholders: program is beneficial.
  - Most <u>common comment</u> from participants is that the <u>program is a good use of public funds on their land</u>.
  - Somewhat infrequently, SFLOs say the project could have been done for less than what it cost.

#### **Evaluation: FREP**

- > Being paid for all Forest Riparian Easements is associated with a *less negative* assessment of the overall financial impacts of the regulations.
  - Wide ranging opinions: payment too low (pay for every tree I can't cut!), a compromise we <u>had</u> to make, FREP is great!
  - Waiting time tied to lack of funding a common complaint,
     BUT most common reason for not applying: lack of awareness. Some will never consider an easement.
- > There is need for a Customer Relationship Management (CRM) system to keep in contact with applicants. (*Useful or FREP & other programs*)

#### **Evaluation: Alternate Plans**

- > SFLOs who say they have applied for Alternate Plans are *consistently negative* in their assessment of the overall financial impacts of the regulations.
  - BUT, only <u>1/5 had a negative overall experience</u> with Alternate Plans. Almost <u>40% wrote-in with some kind of criticism</u>.
  - Suggests those who are already highly negatively impacted seek out Alternate Plans as an option.
- > Summary of criticism: Alternate Plans are difficult and at the end of the process, SFLOs don't get to harvest much more than what existing regulations allow.
  - Those who are interested in Alternate Plans tend to own school of ENV ANTERIAL SCHOOL OF ENV ANTERIAL SCHOOL OF ENV ANTERIAL SCHOOL OF ENV ASHINGTON.

## Sales, Land Use & Policy Recommendations

Presented by: Sergey Rabotyagov Associate Professor

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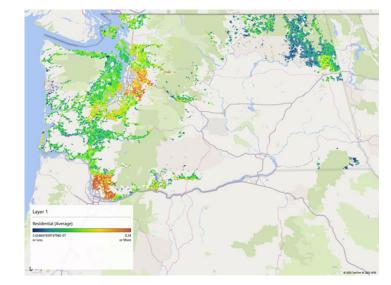
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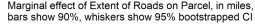
#### **Factors driving SFLO land sales and conversion**

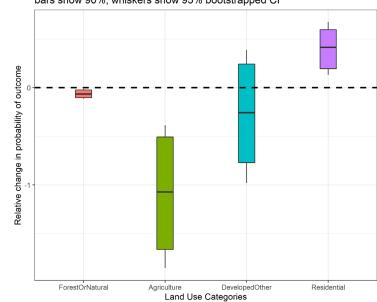
- Riparian Buffers are not found to be driving sales or conversion to residential or development land uses
- > Regulatory concerns do not appear to be driving sales and development
- > Sales are not necessarily planned
  - Family circumstances/financial needs often cited
  - Sales are predictive of subsequent conversion
- > Owners with larger land holdings less likely to convert to residential uses
  - Additional 100 ac owned → ↓17% odds W, ↓14% odds E

## Factors driving SFLO land sales and conversion

- > Proximity to development/UGB
   → higher odds of residential conversion statewide
- > Proximity to public roads → higher odds of ag and residential conversion on Eastside
- > Westside parcel Roads: ↑ 1 mi →
   ↑ 69% odds of residential conversion
- > Perception of ownership challenges associated with subsequent conversion







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#### **Policy Recommendations: A level**

- > Secure Funding for SFLO Office and landowner assistance
  - Consensus among stakeholders to increase education, outreach, regulatory and technical assistance
- > Promote Designated Forest Land Program
  - ½ of DFL acreage found as additional forest protection
  - Allow for non-harvest management objectives
- Robust funding for Family Forest Fish Passage Program (FFFPP)
- > Support information infrastructure for better policy
  - Parcel database

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#### **Policy Recommendations: B level**

- > Conditional on continuation of existing regulatory approach, fund the Forest Riparian Easement Program
  - FREP alleviated regulatory impacts (most commonly requested impact mitigation tool)
  - Found that FREP may be causally connected to land retention
- > Competitive Conservation Easements
  - Direct way to preserve SFLO lands important for public benefit
  - Landowners are receptive
  - Challenging but possible policy design and bid evaluation
  - Some may be willing to donate rights for zero compensation

#### **Policy Recommendations: C level**

- > Westside owners with riparian areas have higher regulatory concerns (NOT specific to riparian issues)
- > A minority of owners representing a majority of forest land base feel negatively impacted by current regulations
- > Across the board, regulatory complexity is identified as a concern
- > Broad direction:
  - Consider simplification to the extent possible (3rd most frequently requested behind program funding)
  - Consider SFLO-specific rules
  - Consider additional Alternate Plan templates

#### **Policy Recommendations: C level**

- > Support peer-to-peer SFLO networks for learning and land sales within SFLO category
- > A menu of carbon policy options remains but depends on whether the State prioritizes
  - More comprehensive ecosystem services approach
  - Maximizing carbon policy participation among SFLOs
    - > Carbon payments/rental possible
    - > Offset market participation not likely feasible for most SFLOs
      - Innovative approaches may allow (e.g. SilviaTerra)
- > Supporting and perhaps simplifying TDR programs

#### **More Information**

> Report, maps and statistics can be found at:

https://nrsig.sefs.uw.edu/projects/small-forest-landowner-regulatory-impacts

#### **Thank You**

#### **Authors & Research Assistance**

- > Sergey Rabotyagov, Ph.D. Principal Investigator, Associate Professor
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