

# Public Tolerance for Smoke and Influencing Factors: A Preliminary Look at Survey Findings from Four States

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# Overview

## ○ Study Methods:

- Questionnaire
- 12 pg booklet with 38 questions including:
  - Linkert-type scales
  - inclusive multiple choice questions
  - open-ended responses
  - dichotomous questions

## ○ Site Descriptions

## ○ Preliminary Data: Emerging Patterns

- Perceptions of Knowledge and Desired Knowledge
- Sources of Smoke
- Perceptions of Agencies
- Woodstoves and Air Quality

## ○ Future Plans

# Site Selection



Presented at the 3<sup>rd</sup> IAWF Human Dimensions of Wildfire Conference, Seattle, April 16-19, 2012

# South Carolina

Francis-Marion National Forest

North Charleston

Charleston

Mount Pleasant

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0 20  
Kilometers

# Northern California

O R



Shasta Trinity National Forest

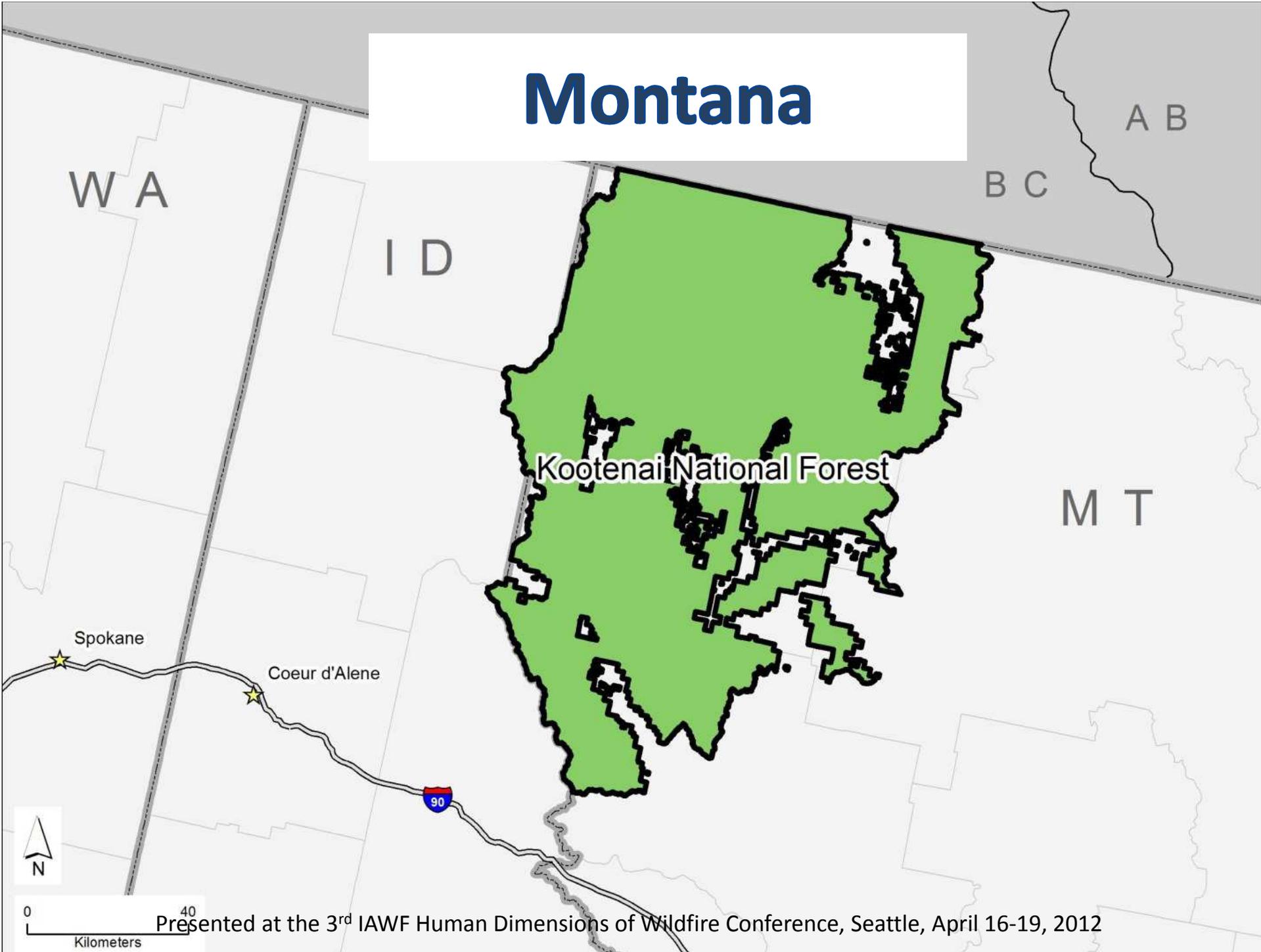
Redding



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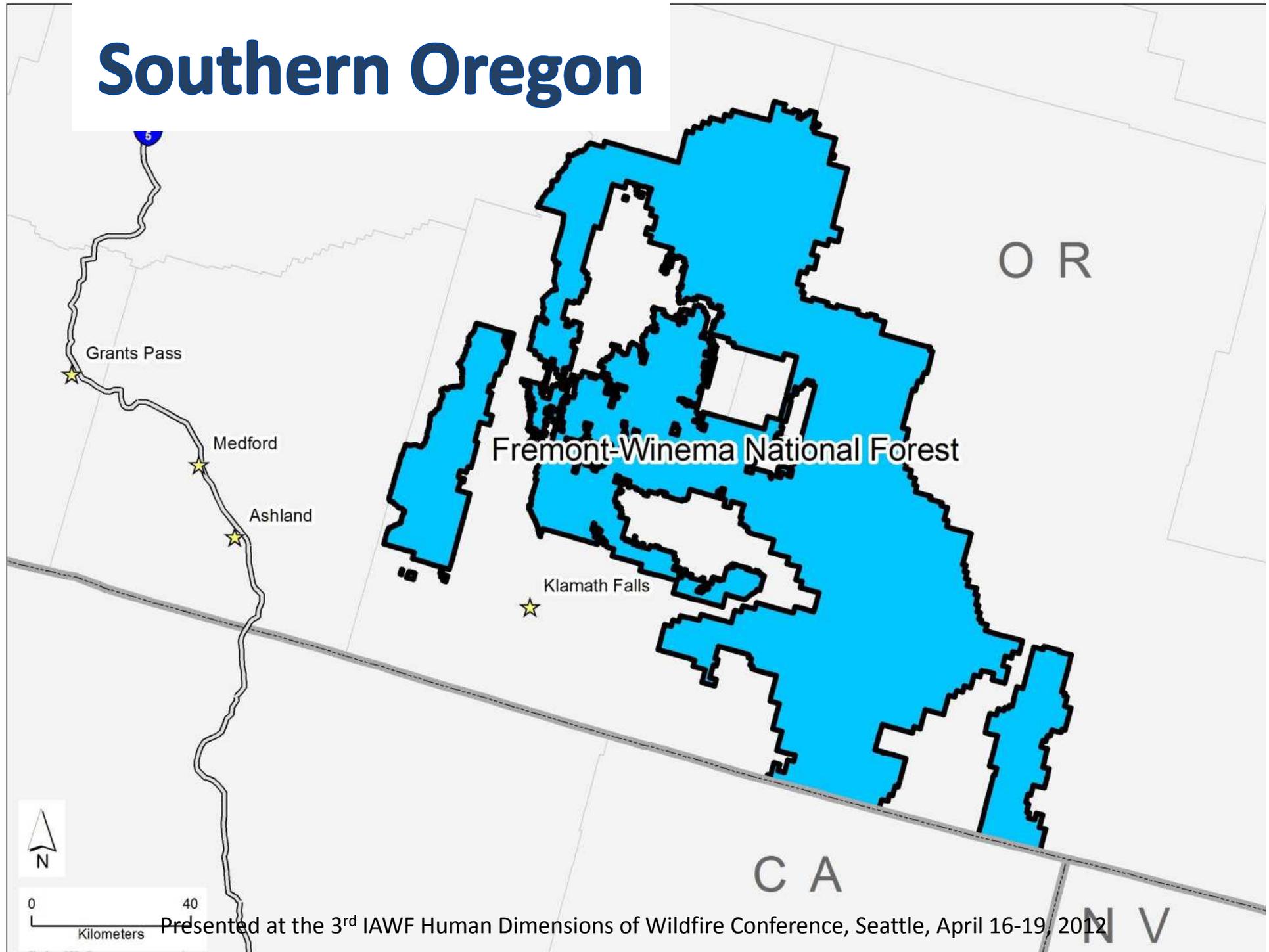


# Montana



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# Southern Oregon



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# Emerging Patterns

## *Preliminary data*

Current sample size: 217

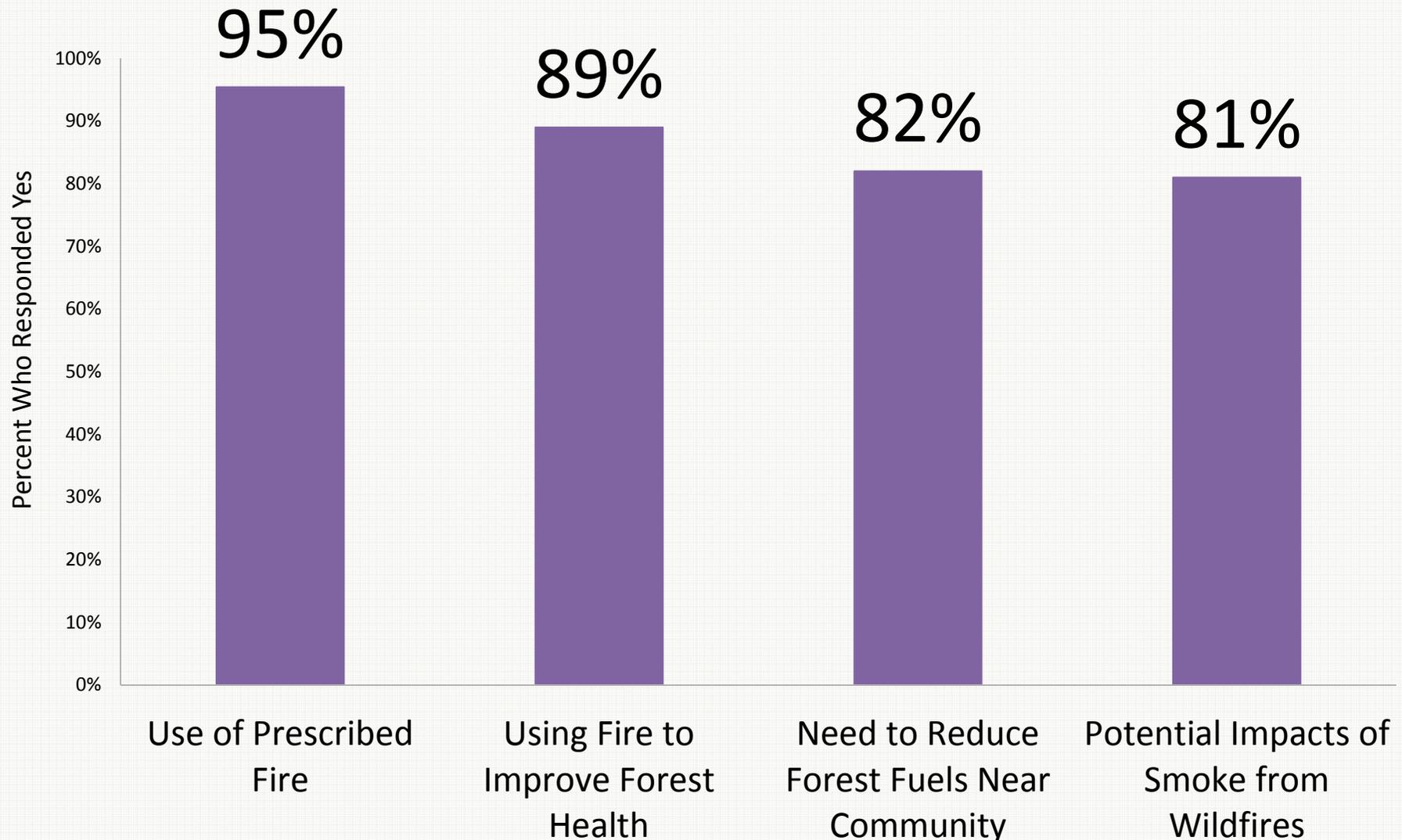
Demographics

Potentially unique sub-population

# Respondent Knowledge

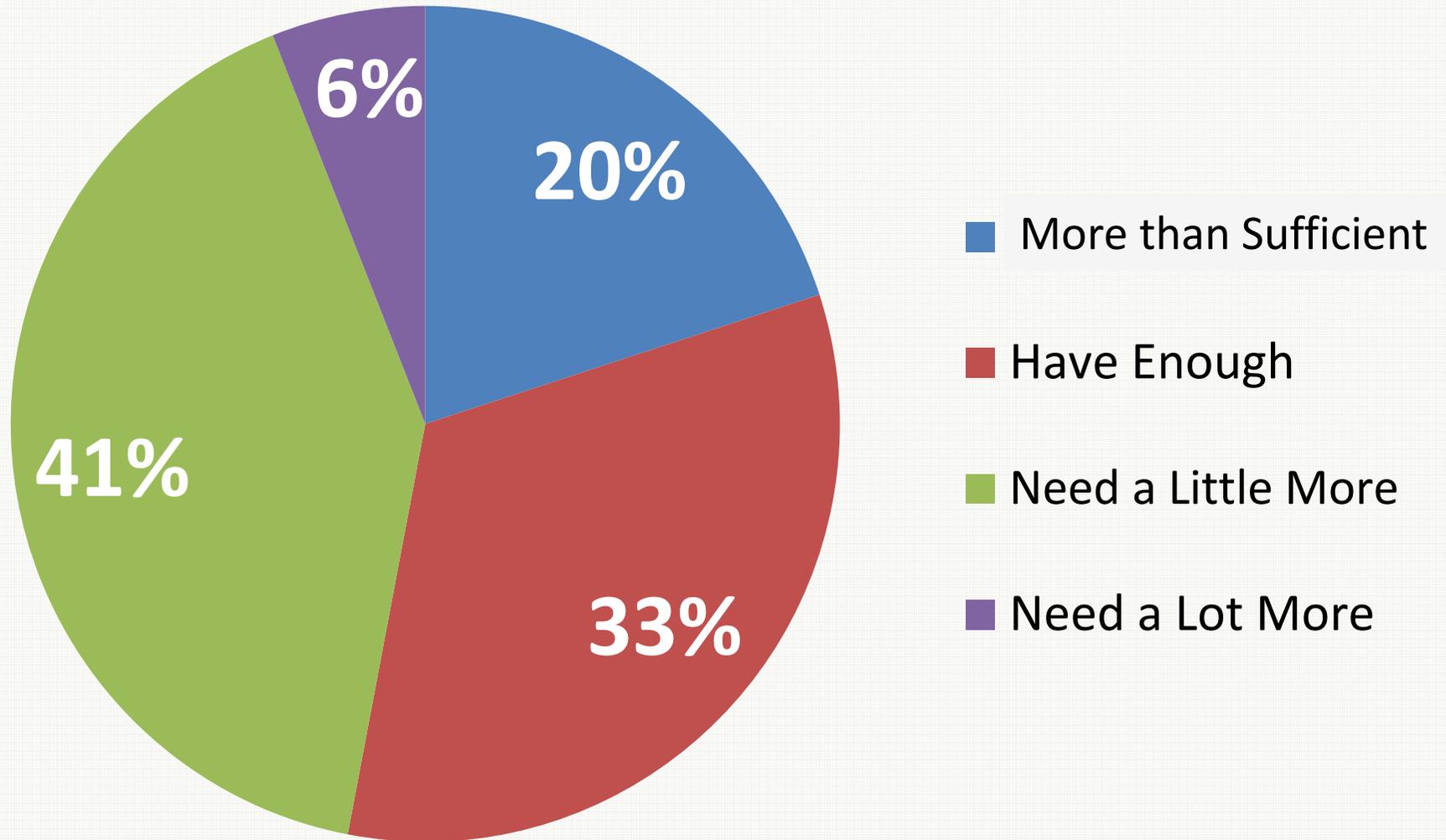
- Perceived Knowledge and Experience
- Desired Information

# Perceived Knowledge of Management Activities



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# Sufficient Information About Smoke

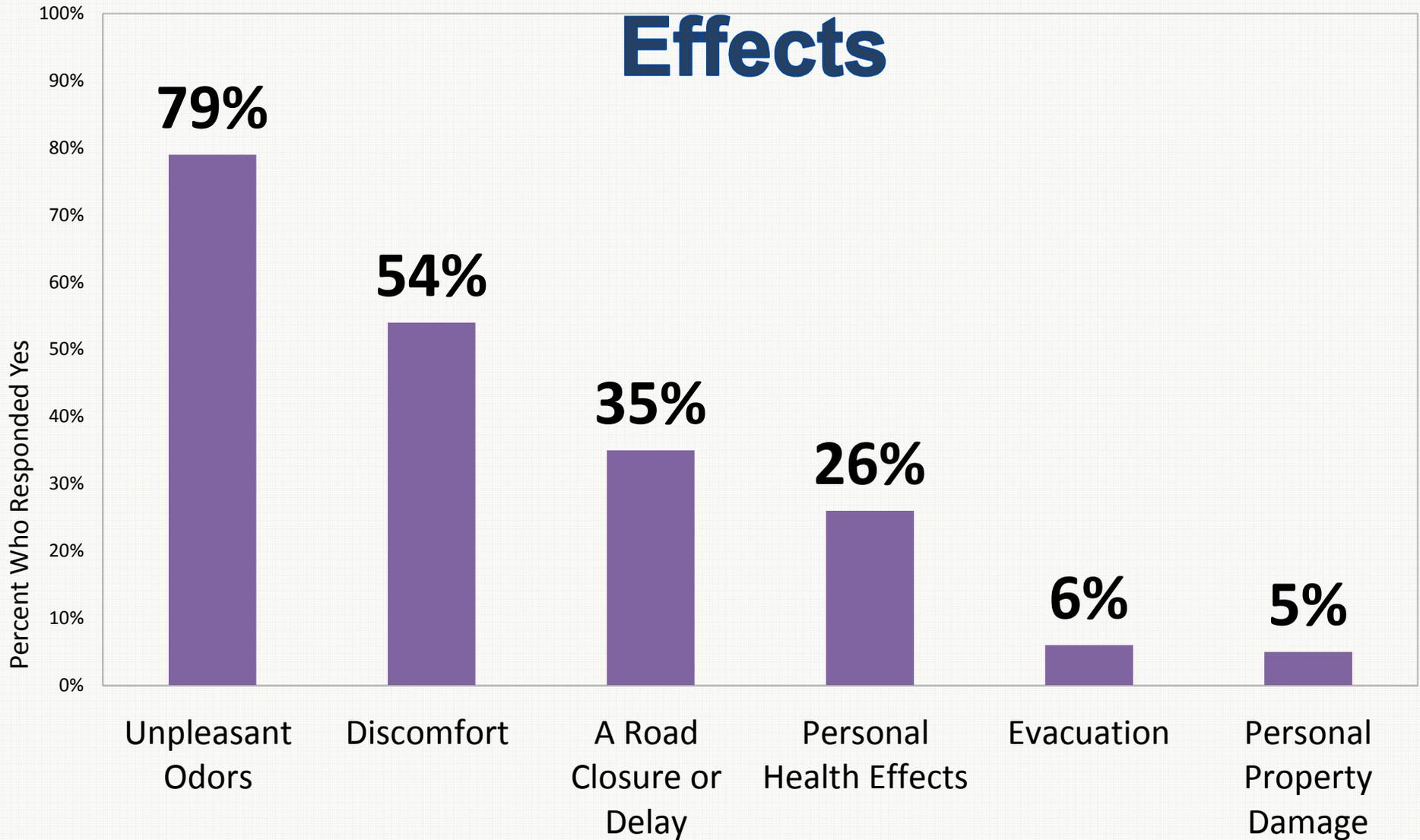


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# Smoke Effects and Sources

- Experience with smoke effects
- Sources of smoke effects
  - Type of Fire that the smoke is coming from
- Acceptability of smoke dependent on source

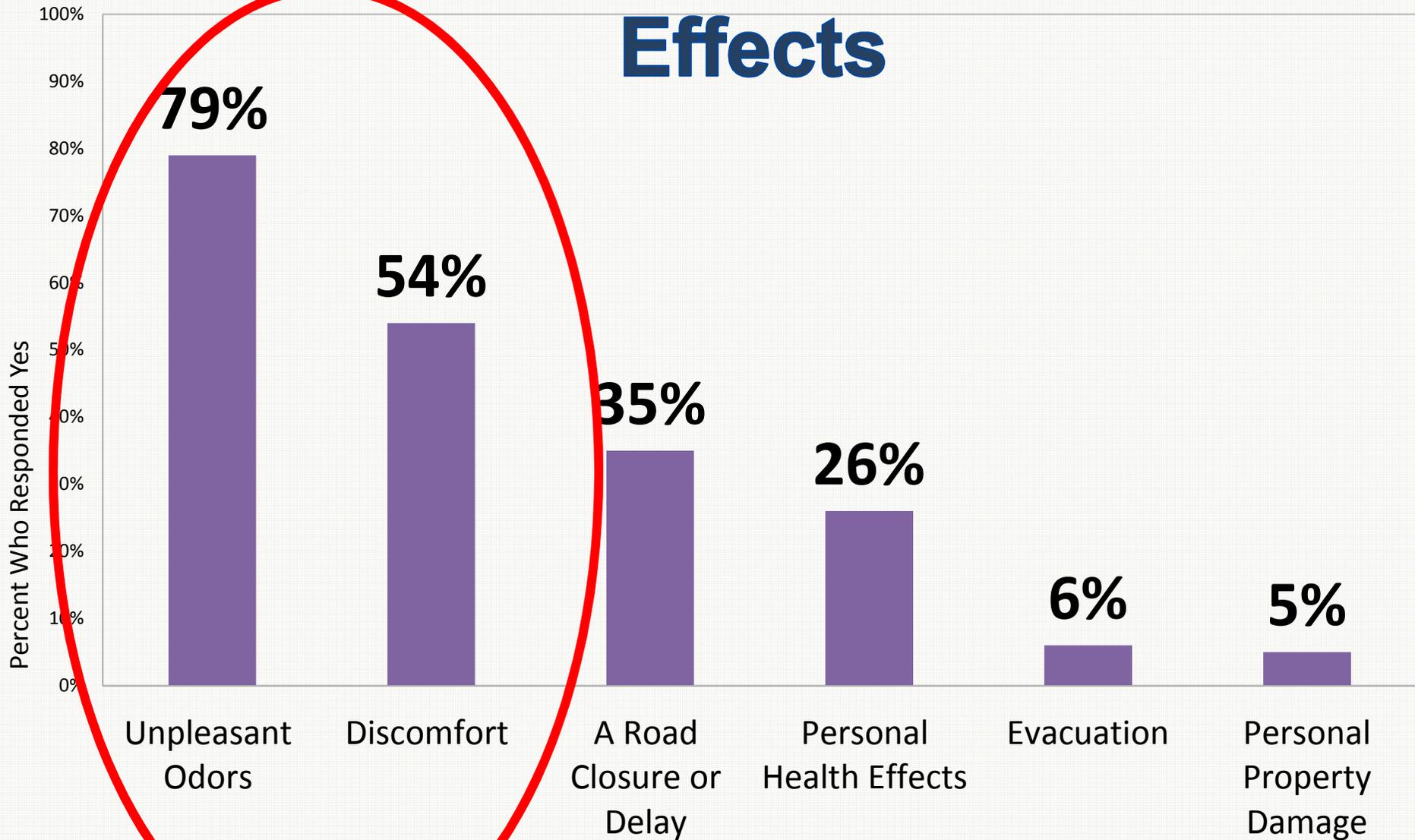
# Previous Experience with Smoke Effects



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**Smoke Impacts**

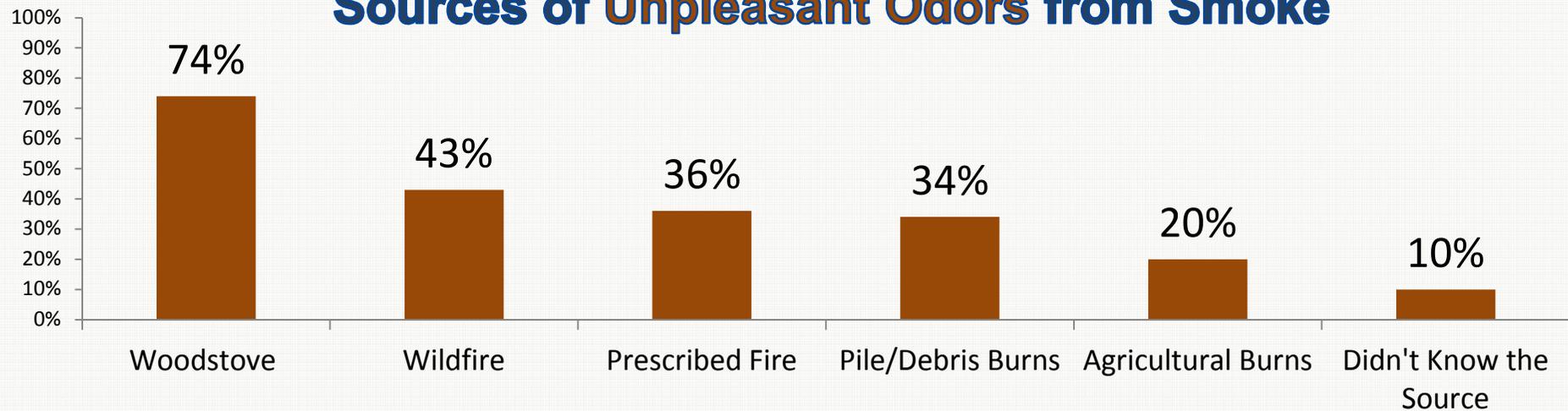
# Previous Experience with Smoke Effects



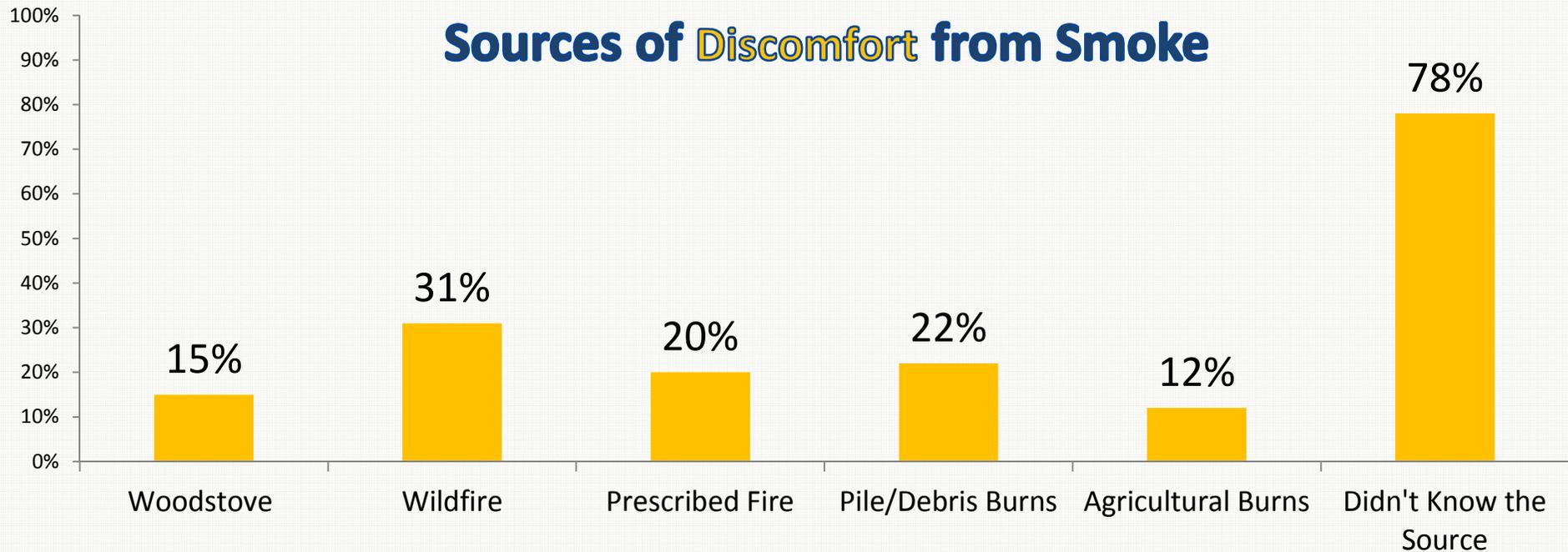
Presented at the 3<sup>rd</sup> IAWF Human Dimensions of Wildfire Conference, Seattle, April 16-19, 2012

**Smoke Impacts**

## Sources of Unpleasant Odors from Smoke



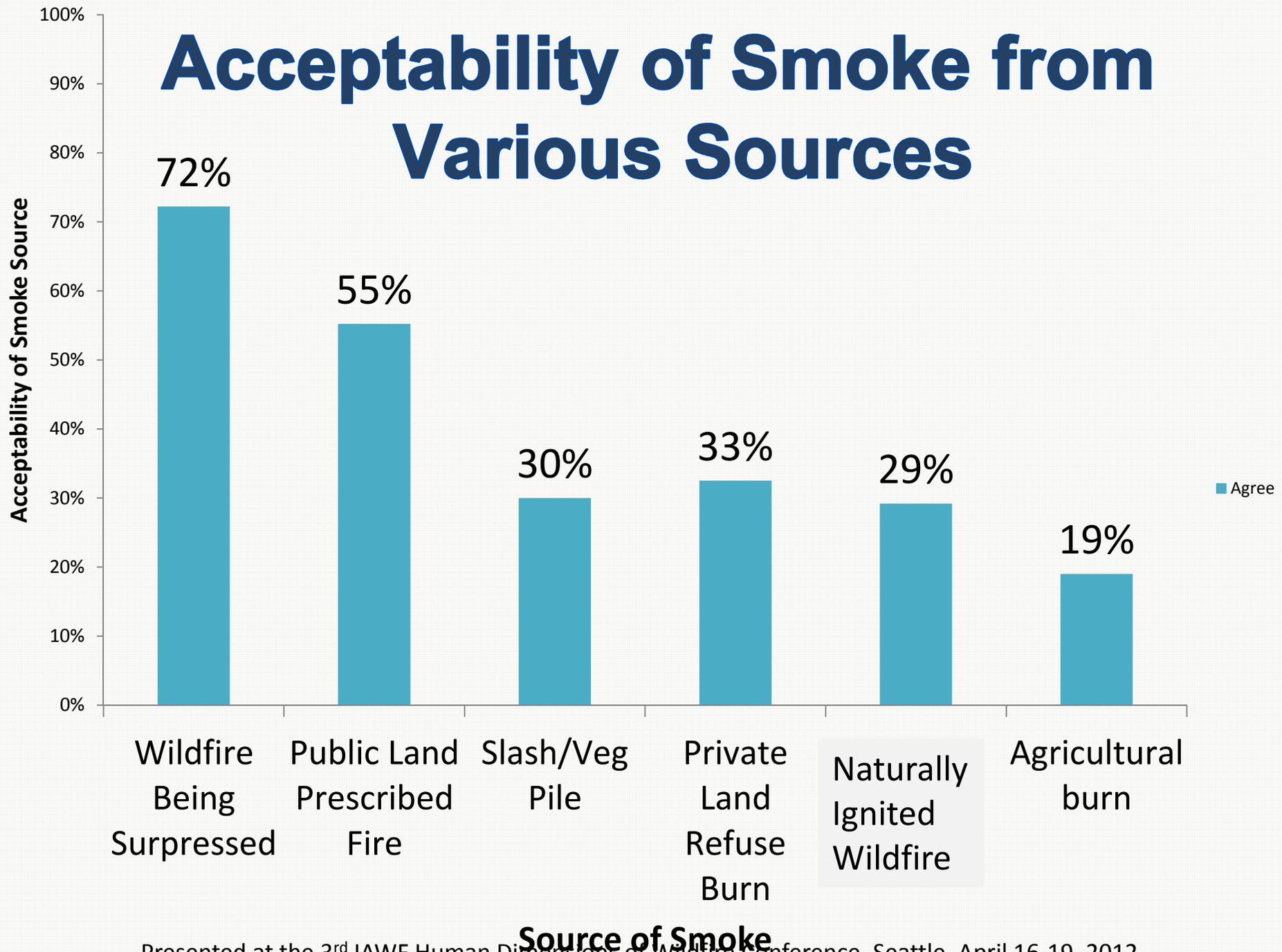
## Sources of Discomfort from Smoke



Smoke Source

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# Acceptability of Smoke from Various Sources



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# Agency Trust

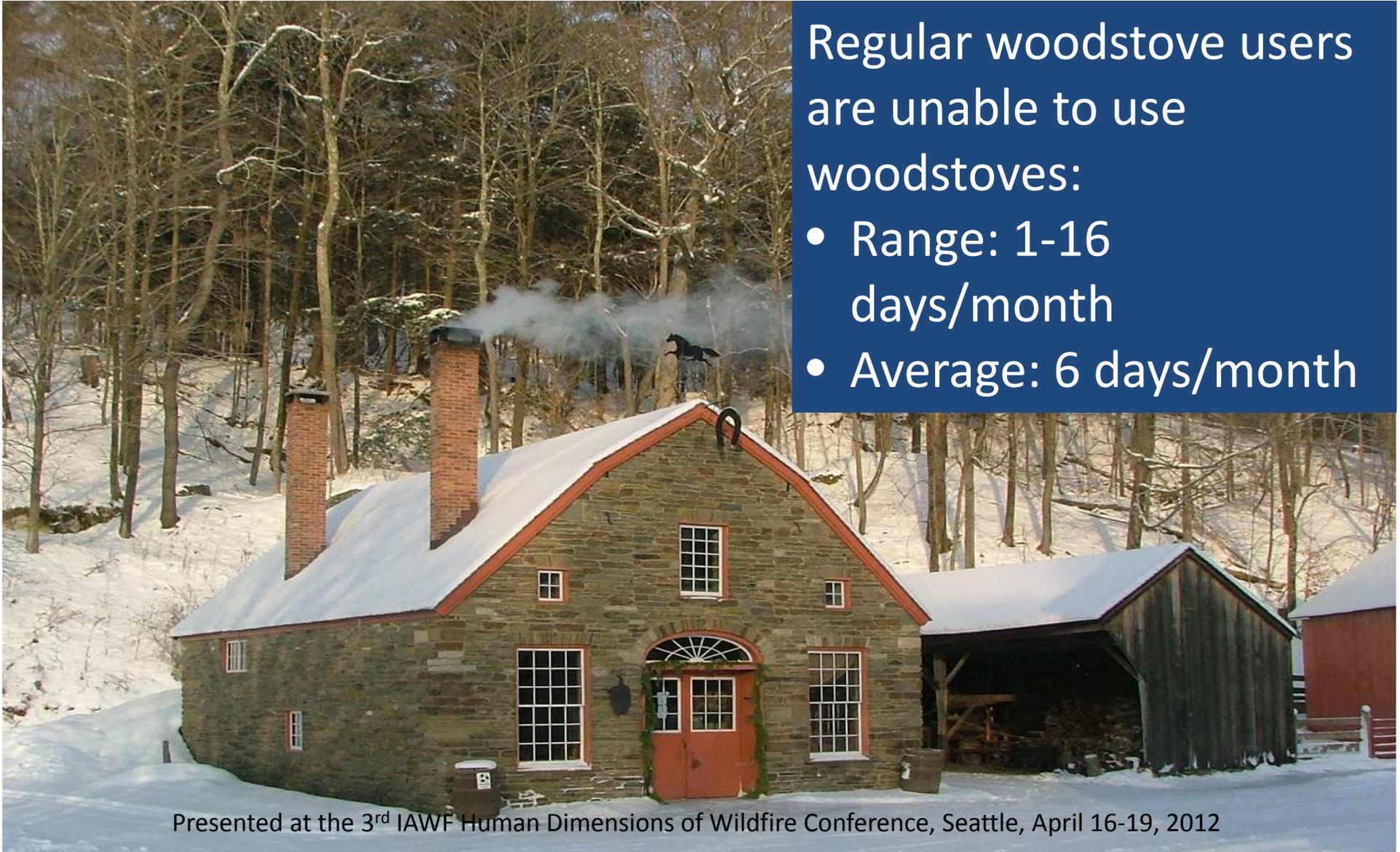


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# Trust in Organizations for Smoke Management

1. State Forestry Department/Division
2. Local Forest Service Staff
3. Forestry Consultants
4. Local/State Air Quality Programs
5. US Federal Agencies
6. Environmental Protection Agency
7. Private landowners

# Air Quality Impacts on Personal Woodstove use



Regular woodstove users are unable to use woodstoves:

- Range: 1-16 days/month
- Average: 6 days/month

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# Future Plans and Considerations

- Survey size:
  - 4 states
  - 2 strata (urban/rural) in each state (excluding Montana)
- Analysis
- ISSRM Conference, Edmonton, Canada 2012
- Compare to previous (Year 1 Interviews)  
and future research (Year 3 Behavioral Experiments)

# Questions?

Thanks to:

