# AMERICA'S WILDLIFE VALUES THE SOCIAL CONTEXT OF WILDLIFE MANAGEMENT IN THE U.S.



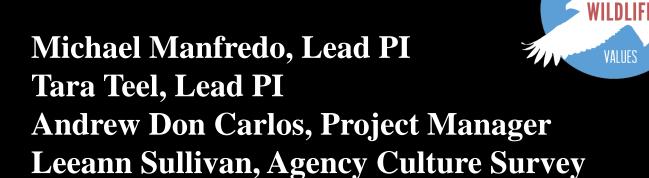
Sandra Jonker, Ph.D.

Steve Pozzanghera

Washington Department of Fish and Wildlife

#### **Study Team**







Alia Dietsch, Co-PI Jeremy Bruskotter, Co-PI

David Fulton, USGS & Univ. of Minnesota



Mark Duda, Mail Survey **Data Collection** 

#### **Multi-State Conservation Grant** Through MAFWA and WAFWA



**AMERICA** 

VALUES



**Project Advisers:** 

Lou Cornicelli, Minnesota DNR Loren Chase, Oregon DFW

## The many challenges of wildlife management in a changing society...













#### Issues Rooted in Cultural Shift

Reflected in Social Values









Values Are Motivational Goals That Direct Behavior Values Are Formed Early in Life and Do Not Change in an Individual

Values Are Embedded in Everything Around Us
Values Adapt Us to Our Social and Environmental World

#### Underlying Questions

- How do agencies adapt and remain relevant, in the face of societal change, to an increasingly diverse constituency?
- What are ways for them to more effectively engage new audiences while still being responsive to the needs of traditional stakeholders?
- How can they garner broad-based support to ensure sustainable funding exists in the future?



## Conditions of Modernization











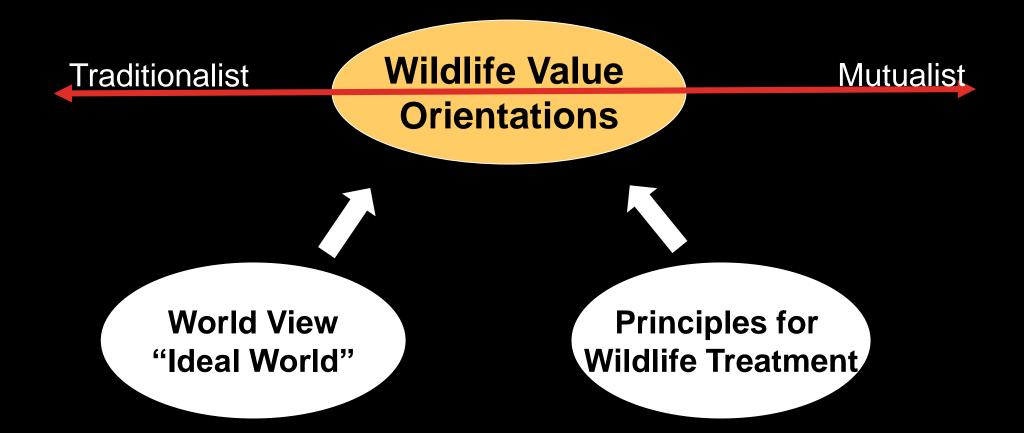
#### Social Values



- Social values are key cognitive foundation
- Fundamental, stable human goal structures
  - Shape how people orient to the world
- Research has identified wildlife values as a construct
  - Reliably measured
- Wildlife values shown to effectively predict a person's position across issues
- Value differences among people are the foundation for conflict over issues in fish and wildlife management

#### Wildlife Value Orientations are...

Enduring beliefs regarding wildlife



#### Value Dimensions



#### TRADITIONALISTS / Utilitarian (Domination)

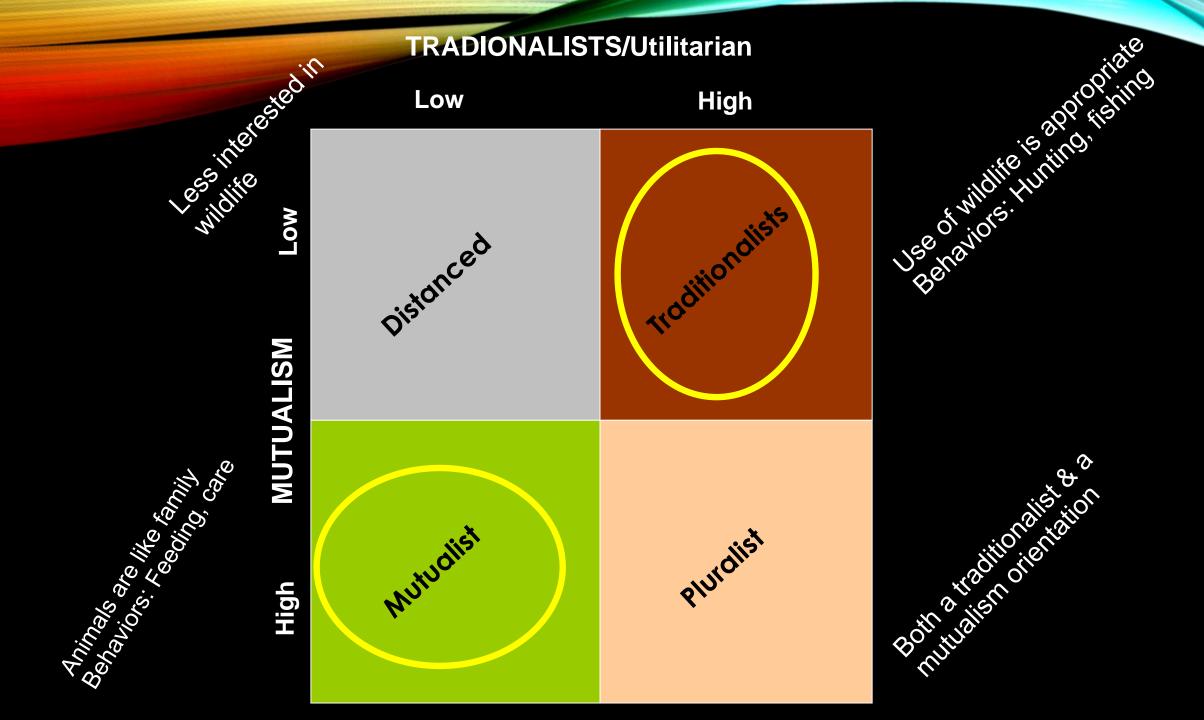
- Wildlife are subordinate
- Wildlife should be used in ways that benefit humans
- Using animals in research and hunting are two ways these benefits accrue
- Wildlife should be killed if they threaten safety or to protect property
- Vision where there are abundant populations of fish and wildlife for hunting and fishing

#### Value Dimensions



#### **MUTUALISM**

- Wildlife are seen as part of an extended social network of life
- Wildlife are viewed as family or companions
- Care for wildlife as they might for humans
- Wildlife are deserving of rights like humans
- Vision of humans and wildlife living side by side without fear



#### Outline

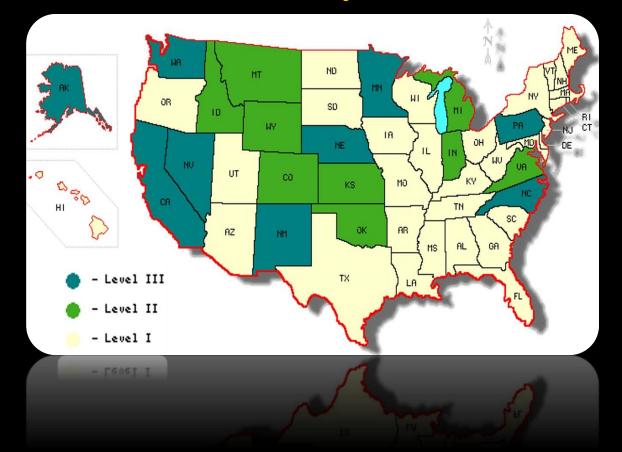
- Provide highlights of National Public Survey study results
  - Comparing National to WA State results
  - WDFW specific questions
- Overview of Agency Culture Results

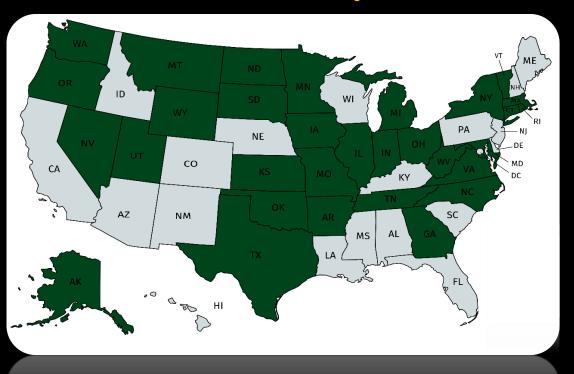
- Won't be able to cover all the data today
- National and WA Survey Reports are available and laid out with descriptives, graphs, and geographic distribution of results by County



#### State Fish and Wildlife Agency Participation

Public Survey Agency Culture Survey





#### Summary of Study Methods



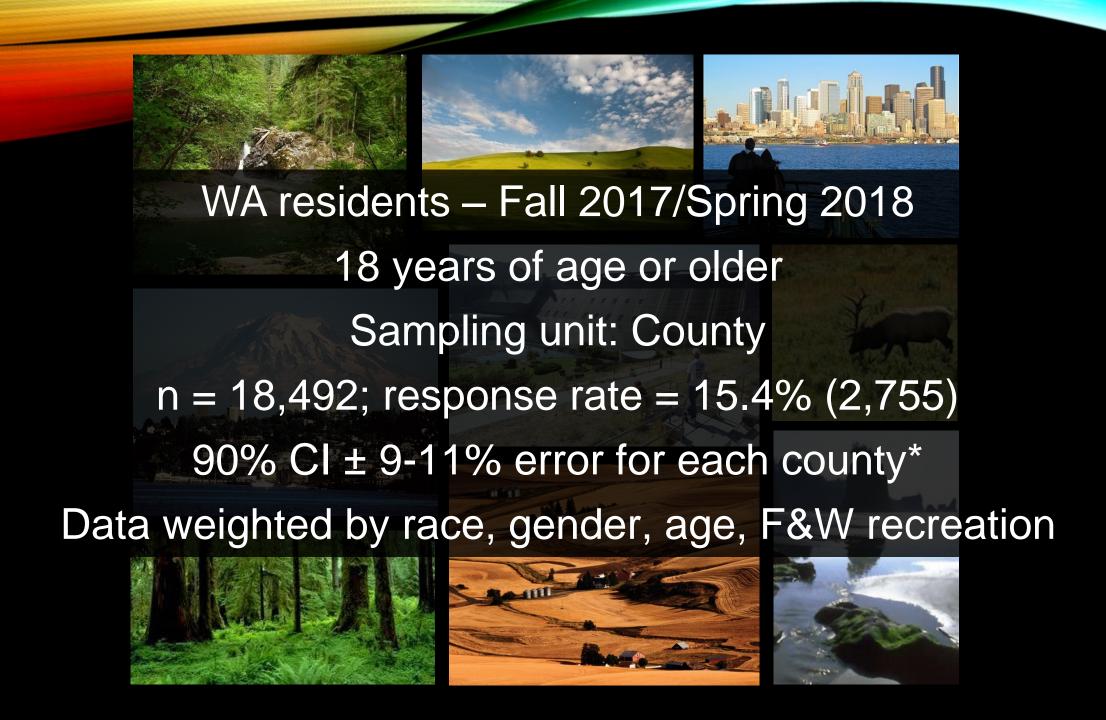
#### Data

- 2004 *Wildlife Values in the West* (19 states, n > 12,000)
- 2009 People and Places (4 states)
- 2018 America's Wildlife Values (50 states)
- 2018 Agency Culture Survey (30 States)

#### 2018 Survey Methods

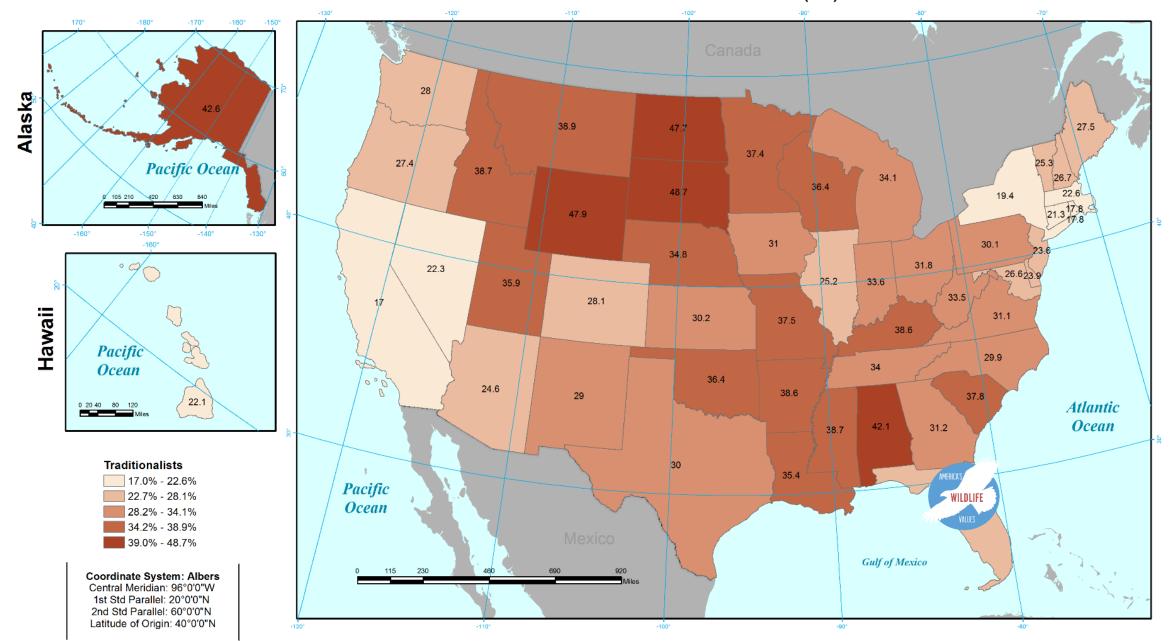
- Two extensive pilot tests to compare and test phone, mail, and e-mail
- Public combined mail & e-mail panel (2 waves, one for boosting numbers overall, one targeting diverse populations; total n = 43,949)
- Agency Culture Survey e-mail administered to agency employees (n =10,669)

## NATIONAL PUBLIC SURVEY AND WARESULTS

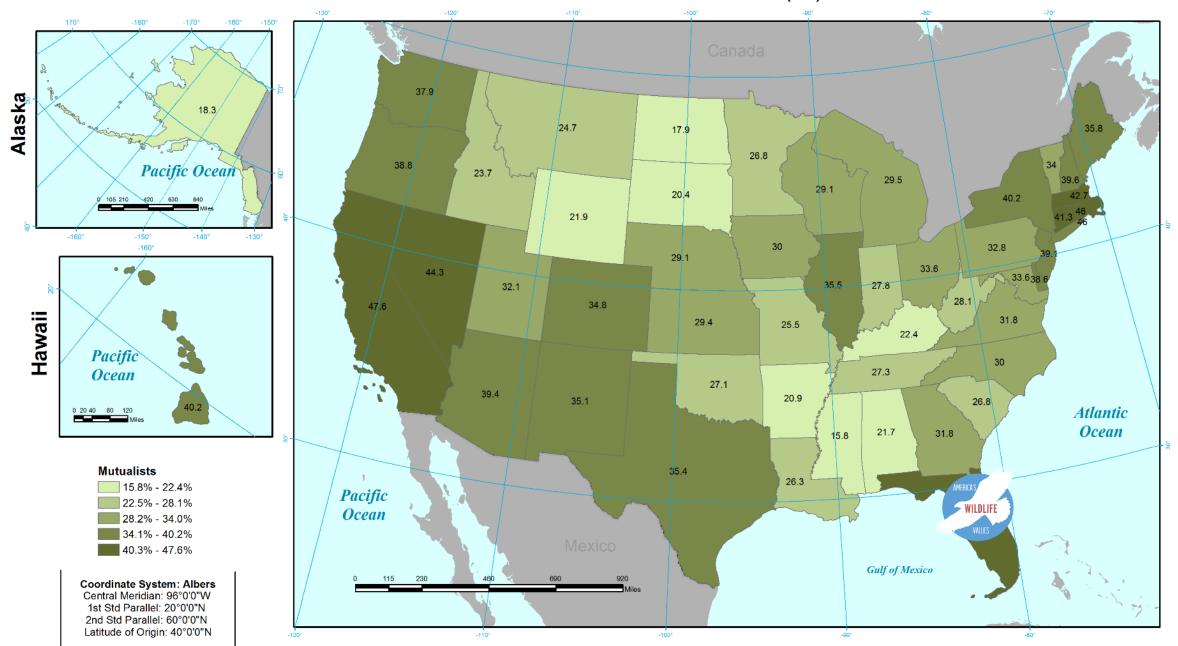


## DISTRIBUTION OF WILDLIFE VALUE TYPES IN THE U.S.

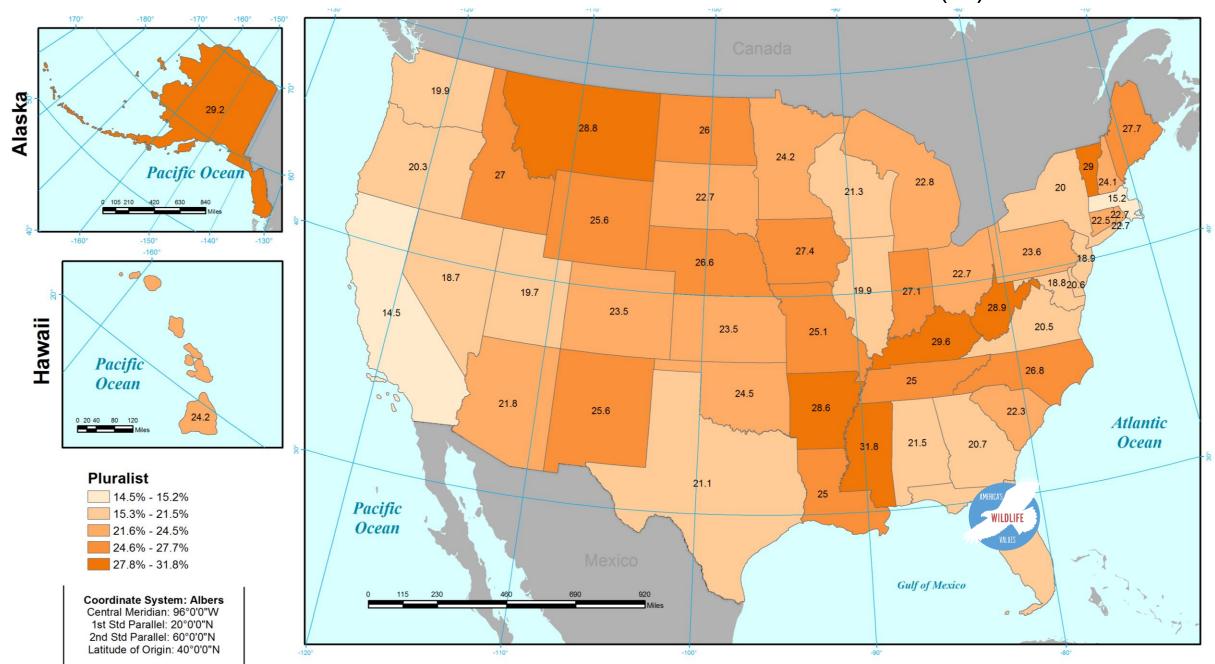
#### America's Wildlife Values - Traditionalists (%)



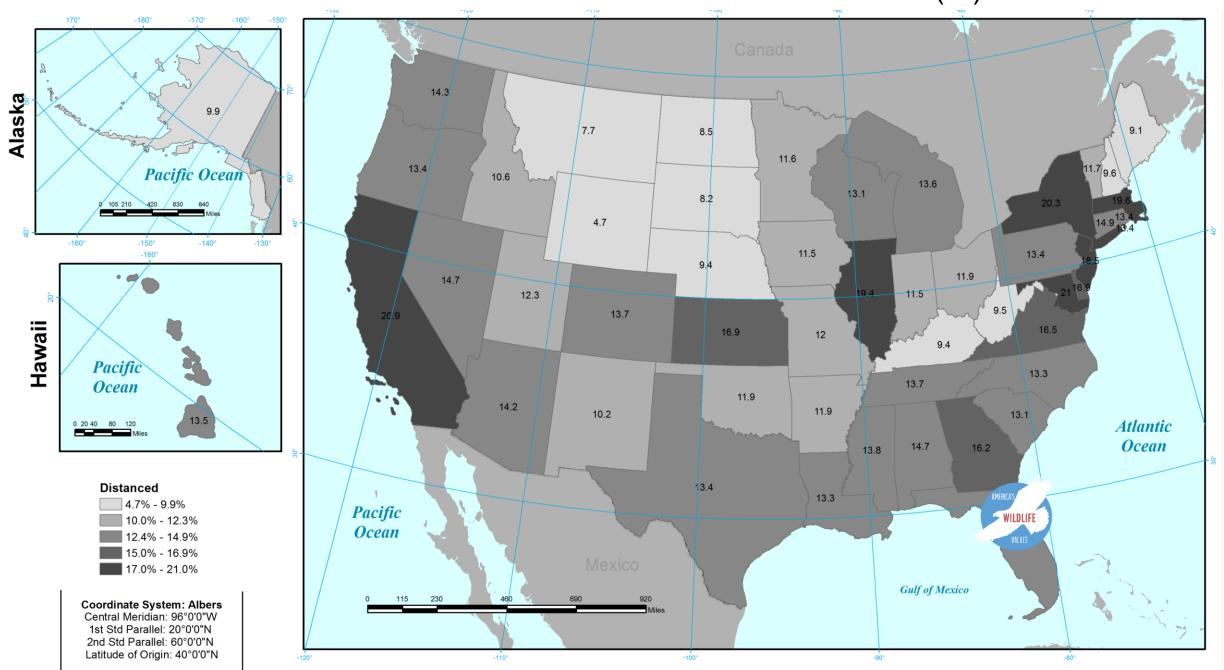
#### America's Wildlife Values - Mutualists (%)



#### America's Wildlife Values - Pluralists (%)

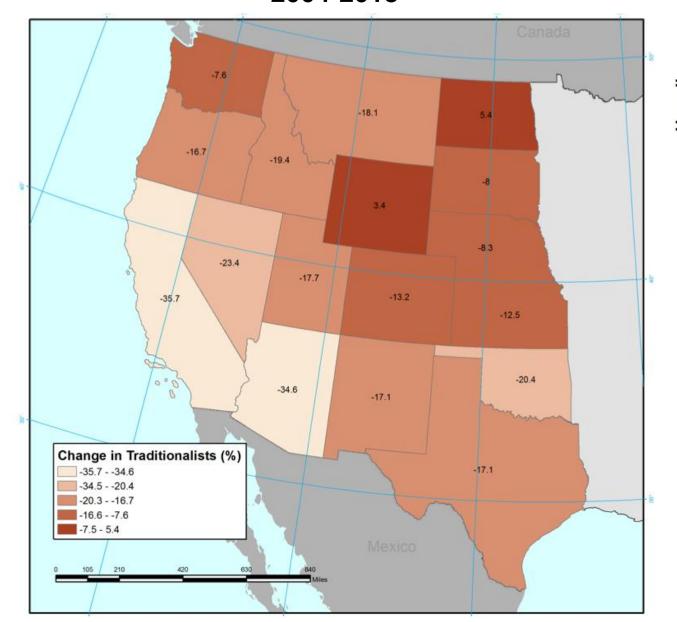


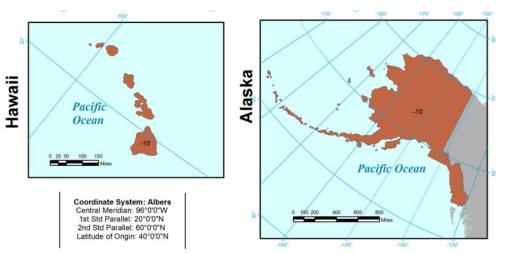
#### America's Wildlife Values - Distanced (%)



## MODERNIZATION AND SHIFTING WILDLIFE VALUES

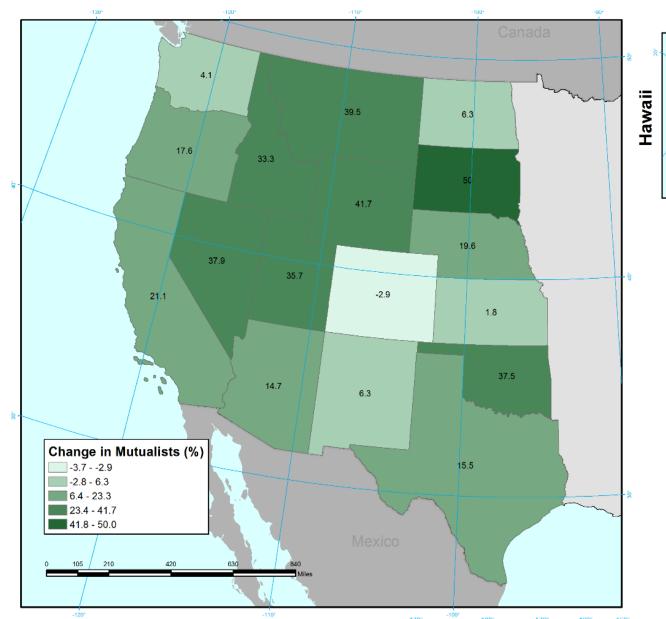
### Rate of Change in Traditionalists in the West, 2004-2018

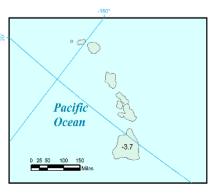






## Rate of Change in Mutualists in the West, 2004-2018





Coordinate System: Albers Central Meridian: 96°0'0"W 1st Std Parallel: 20°0'0"N

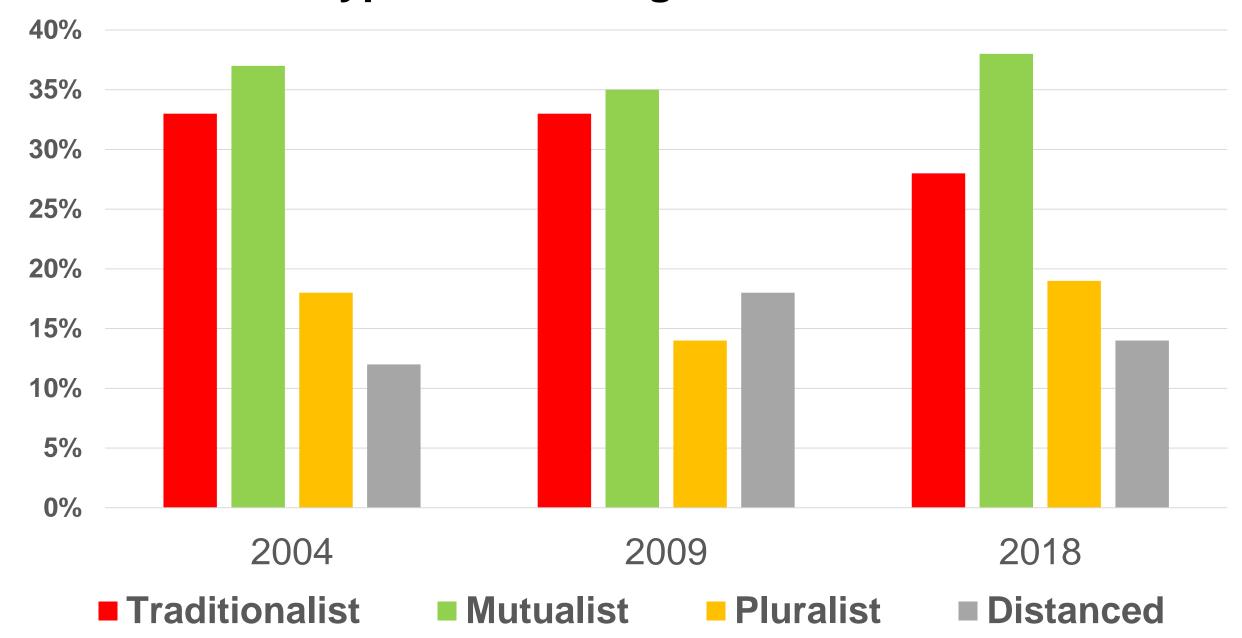
2nd Std Parallel: 60°0'0"N

Latitude of Origin: 40°0'0"N



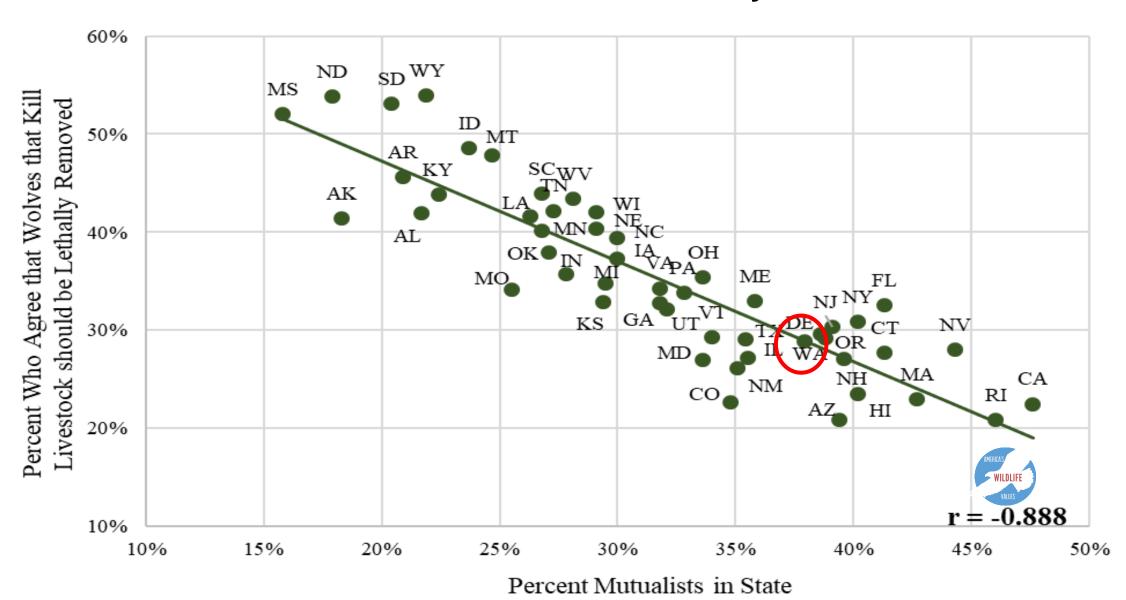


#### Wildlife Value Types in Washington: 2004 to 2018

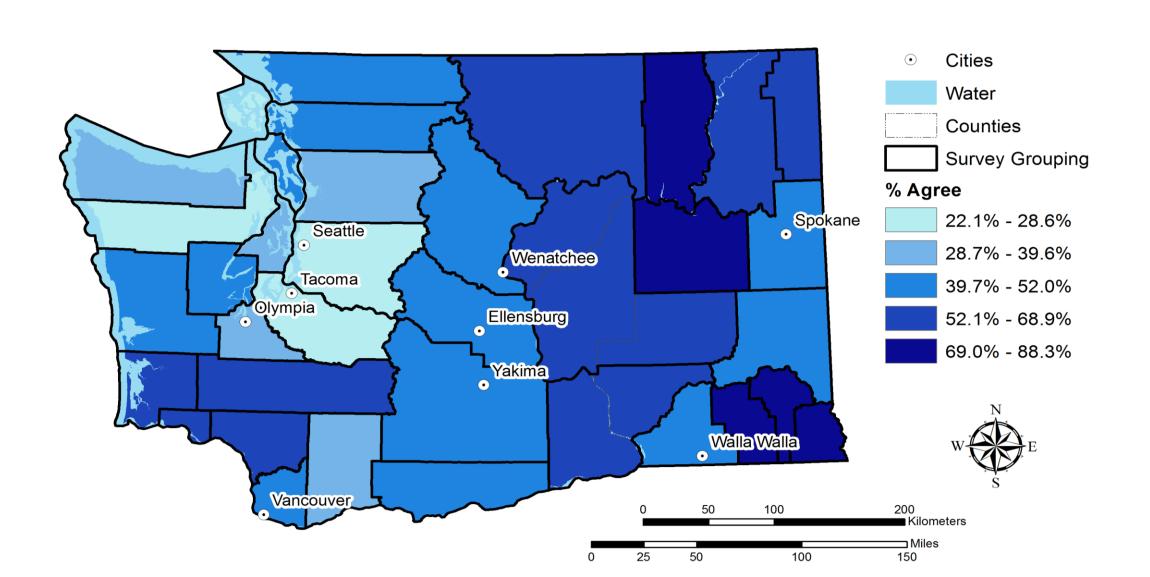


## WILDLIFE VALUES RELATE TO AND AFFECT ATTITUDES AND BEHAVIORS

## Percent Mutualists in state by percent who agree that wolves that kill livestock should be lethally removed



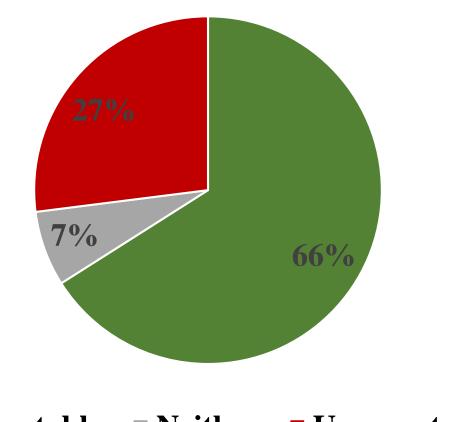
## Percent who agree that wolves that kill livestock should be lethally removed



### Support for lethal removal of wolves that prey on livestock in Washington in 2009

#### **Question on Survey:**

"Is it unacceptable or acceptable for WDFW to capture and lethally remove a wolf if it is known to have caused loss of livestock."

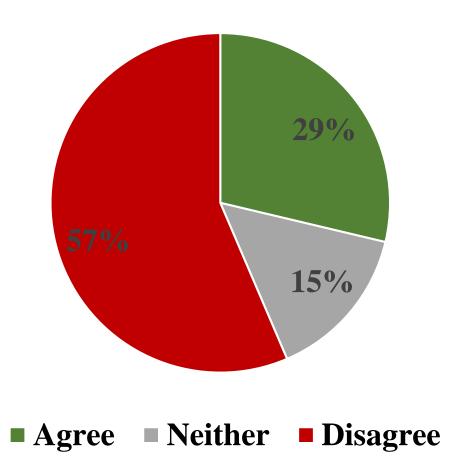


■ Acceptable ■ Neither ■ Unacceptable

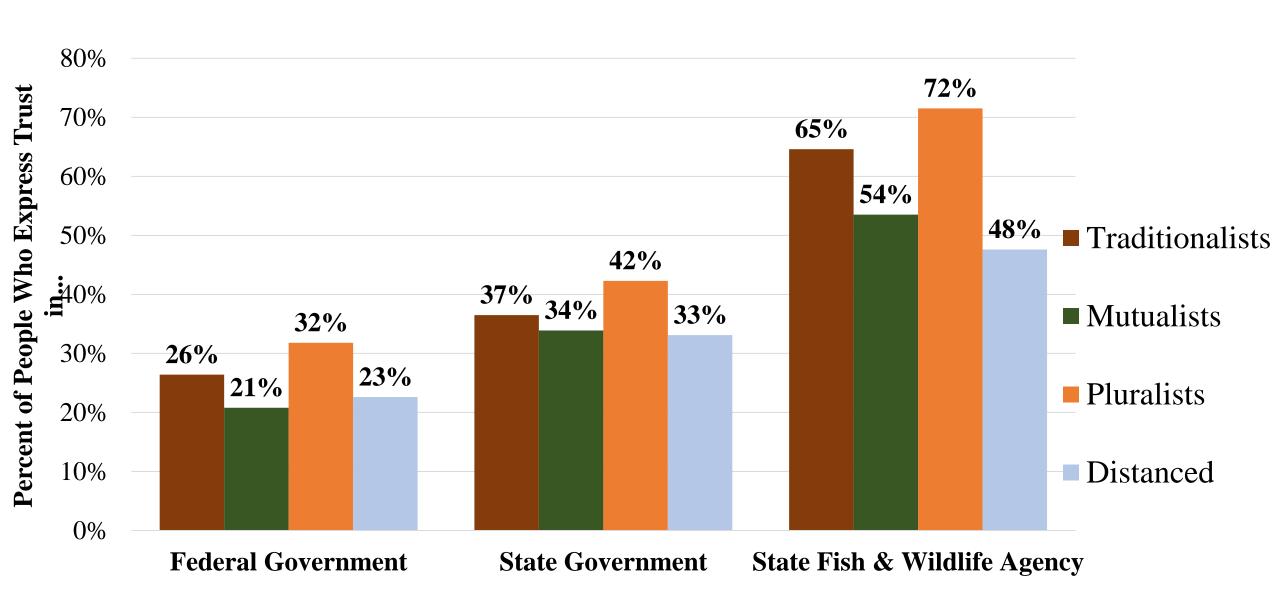
### Support for lethal removal of wolves that prey on livestock in Washington in 2018

#### **Question on Survey:**

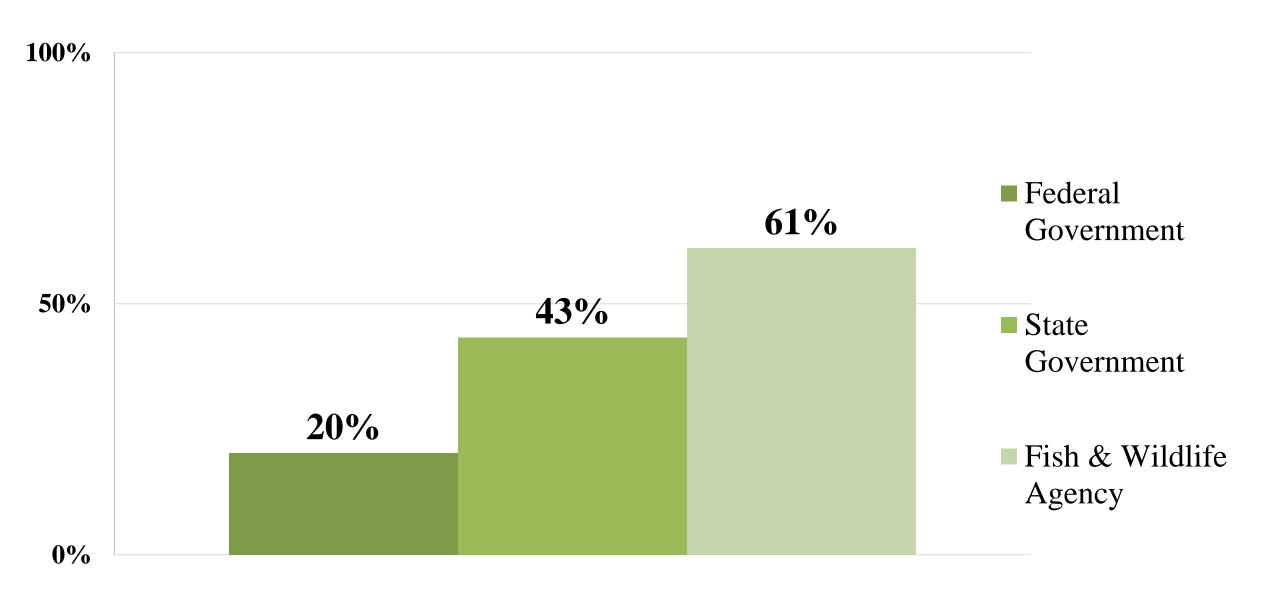
"Wolves that kill livestock should be lethally removed"



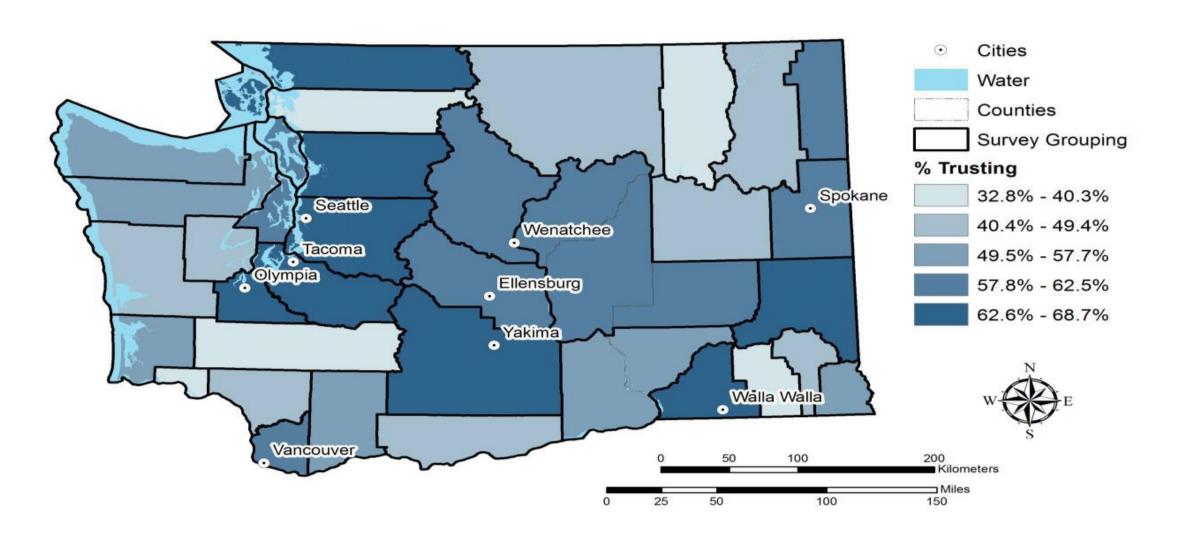
## Trust in different levels of government across the U.S. by wildlife value orientation



#### Trust in different levels of government (WA)

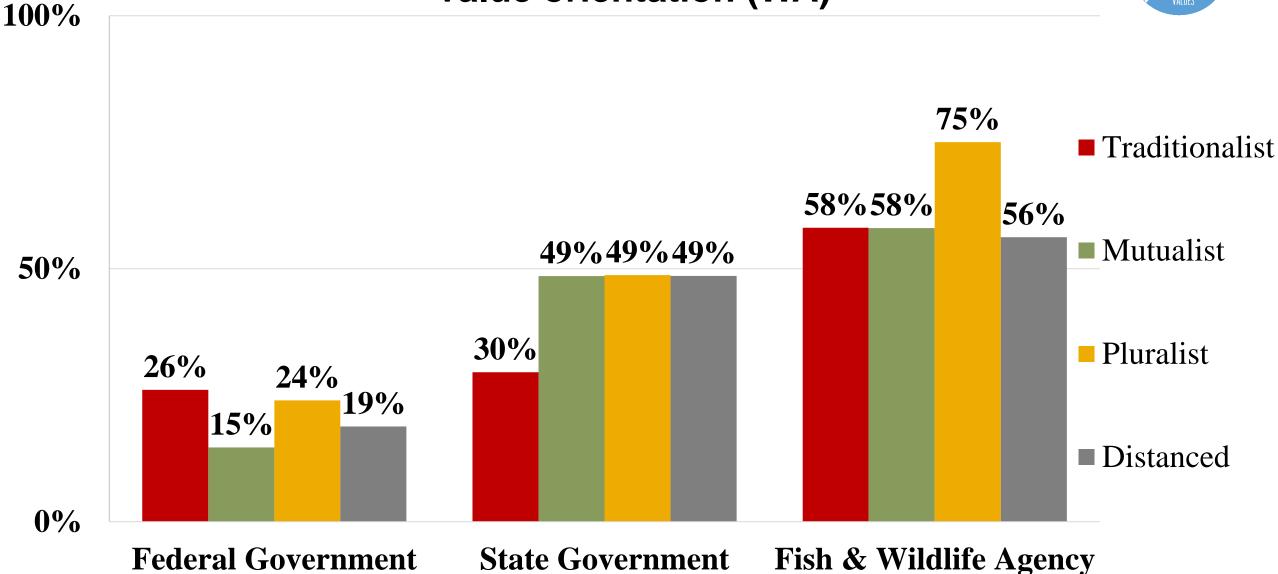


#### Public trust in State Fish & Wildlife Agency



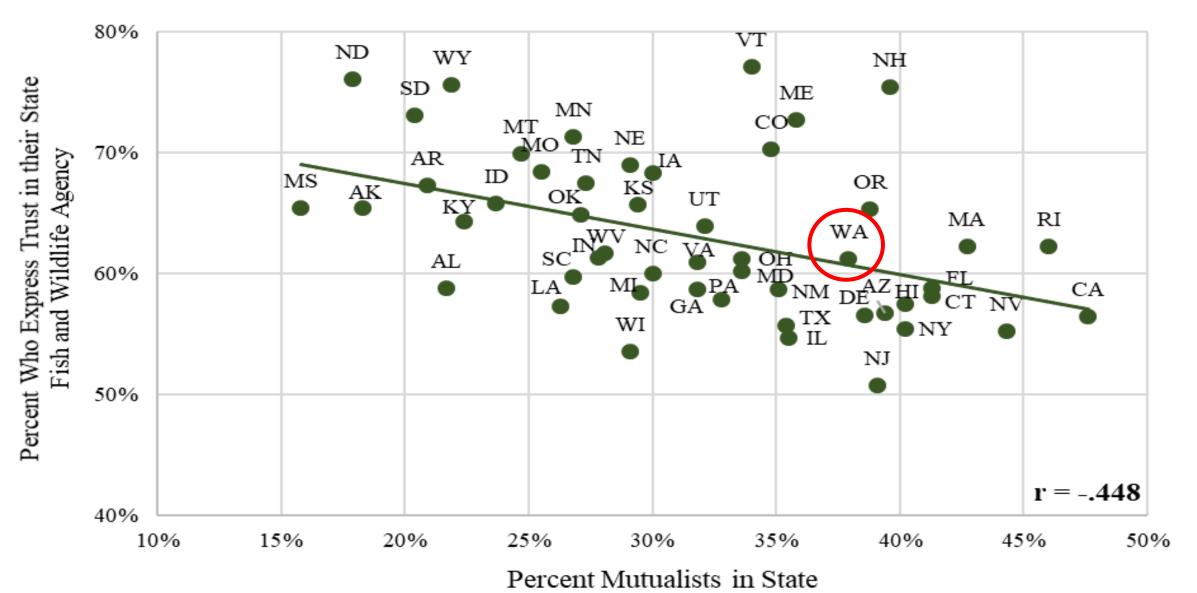
## Trust in different levels of government by wildlife value orientation (WA)



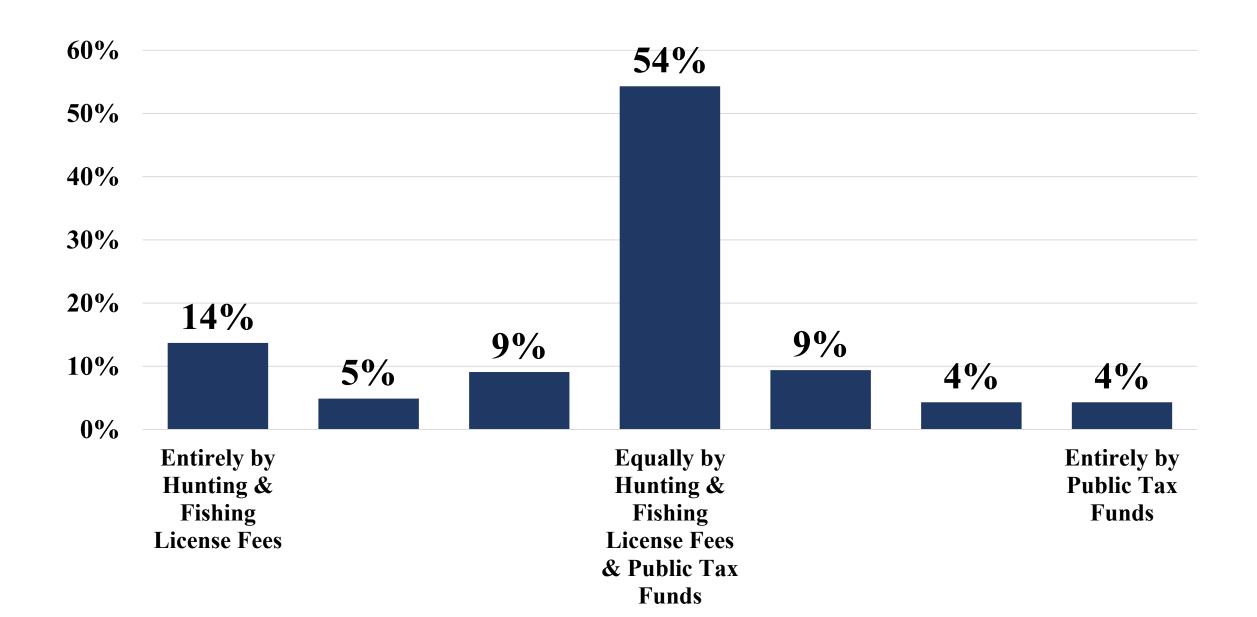


## Percent Mutualists in state by percent who trust their state fish and wildlife agency



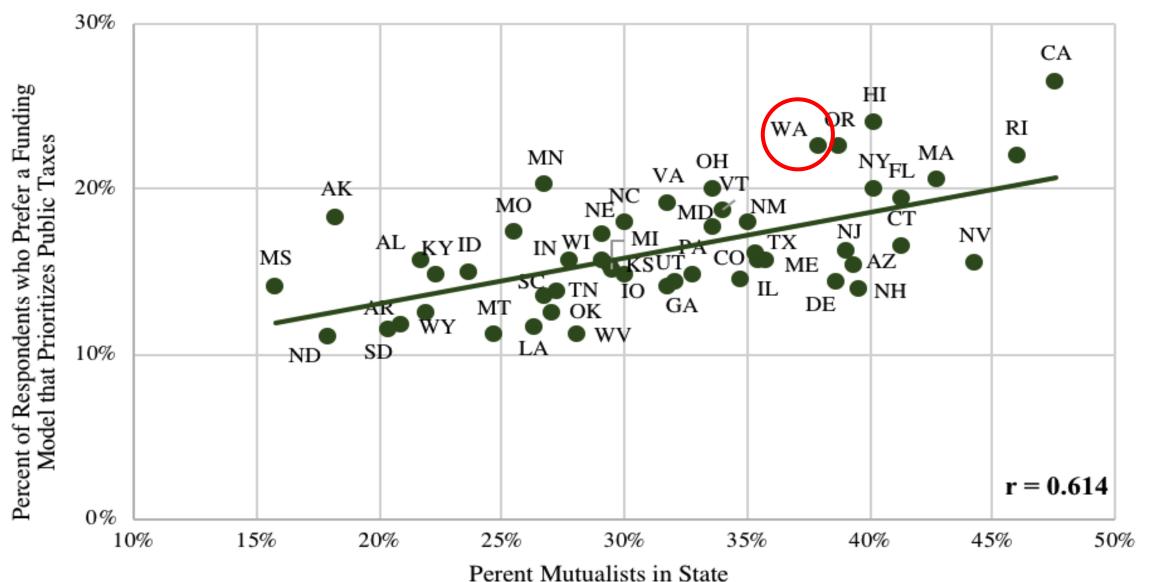


#### National preferences for state fish and wildlife agency funding

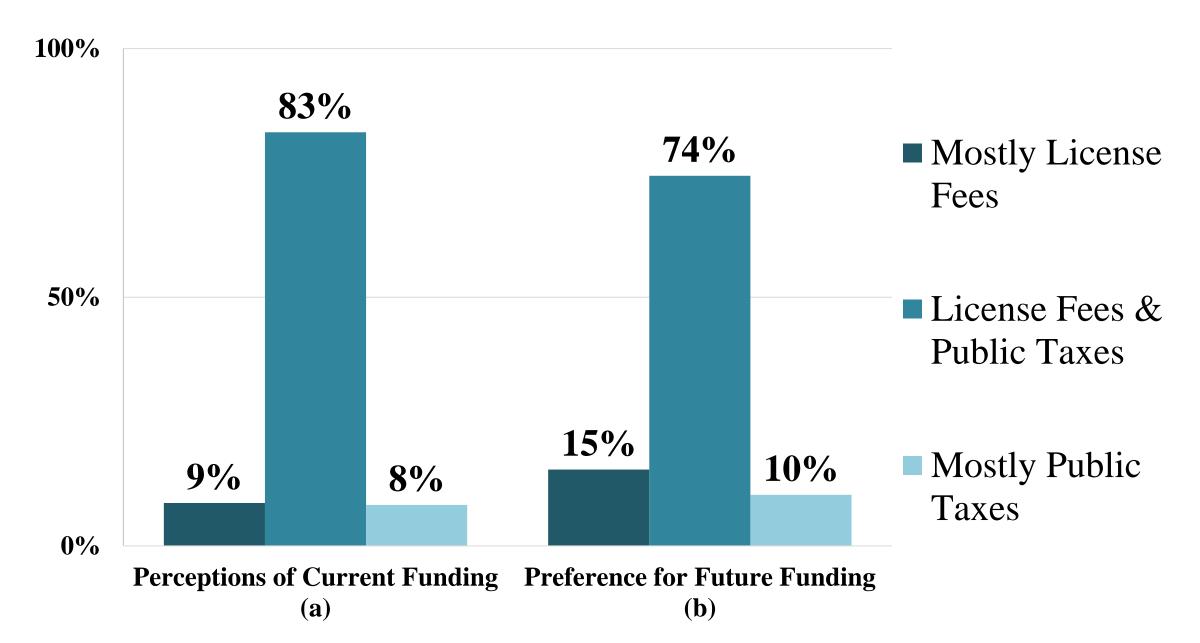


### Percent Mutualists in state by percent who prefer a funding model that prioritizes public taxes





#### **Current & future funding for F&W management (WA)**

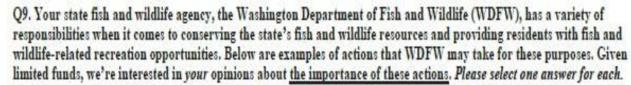


# WASHINGTON STATE-SPECIFIC QUESTIONS

### Summary of WA Item Development

One page for WDFW specific items

- Identified 6 management issues and selected:
  - How different types of habitat protection support fish and wildlife and quality of life
  - Non-consumptive/non-game funding opportunities



		Not at all Important	Slightly Important	Moderately Important	Quite Important	Extremely Important
A.	Incentives to private landowners who restore fish and wildlife habitat (example: tax breaks, reimbursement for expenses)	0	0	0	0	0
В.	Programs that help local governments plan for protection of open space and fish and wildlife populations in urban areas	0	0	0	0	0
C.	Acquiring new land areas to protect fish and wildlife habitat	0	0	0	0	0
D.	Acquiring new land areas for outdoor recreation opportunities	0	0	0	0	0
E.	Restoring or enhancing existing land areas for fish and wildlife habitat	0	0	0	0	0
F.	Limiting public access to certain land areas to protect fish and wildlife habitat	0	0	0	0	0
G.	Limiting the types of <i>outdoor recreation</i> on certain land areas that may negatively impact fish and wildlife habitat	0	0	0	0	0

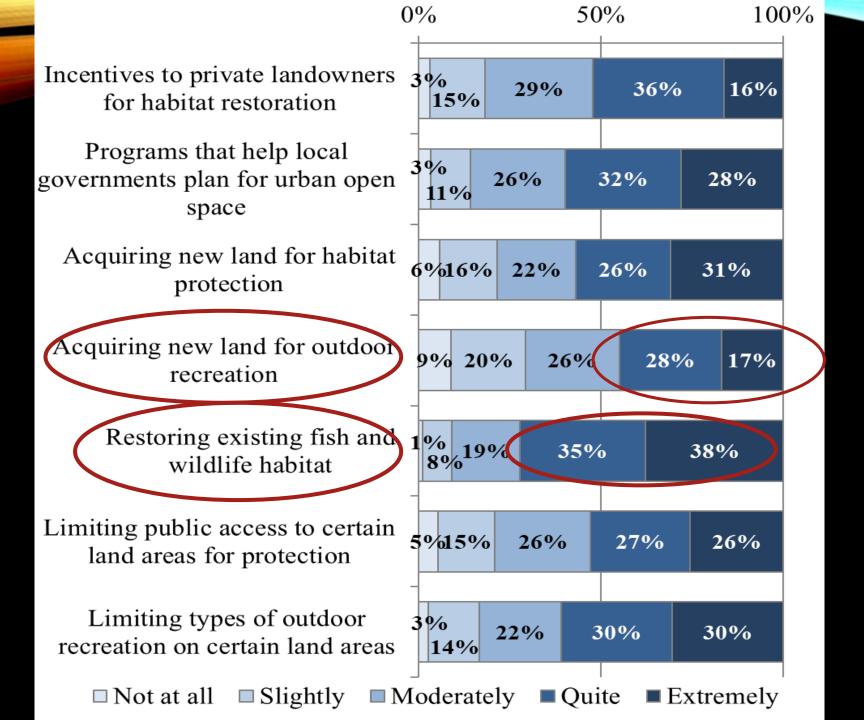
Q10. What do you consider to be the most important actions identified above? Write one letter, A - G, for each:

1st most important 2nd most important 3rd most important

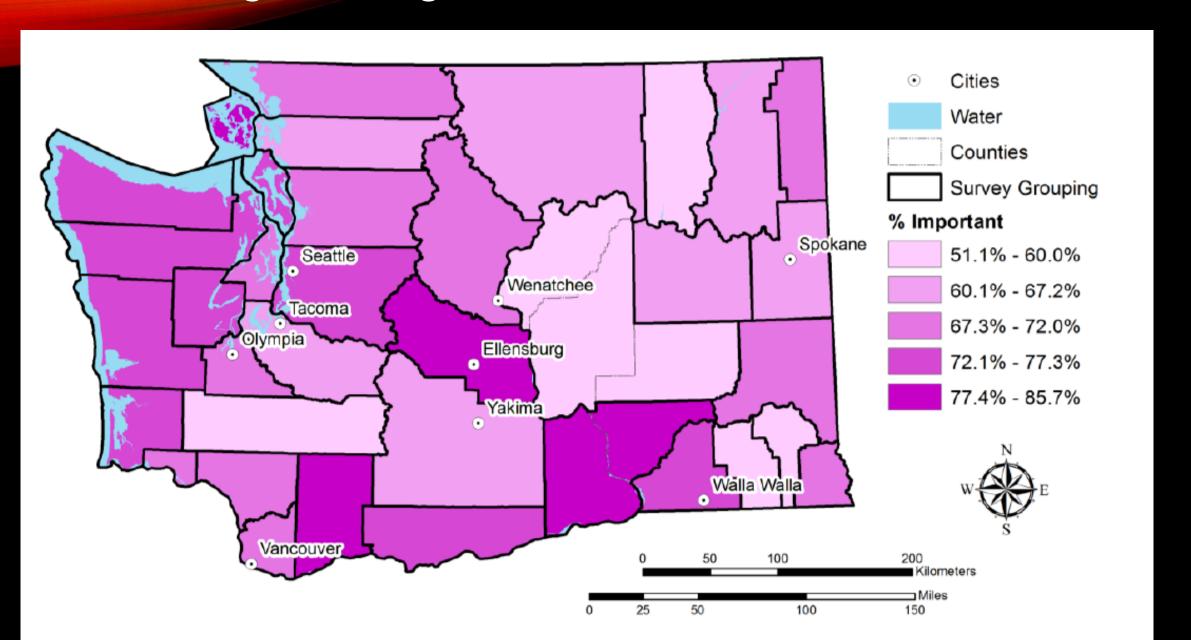
Q11. In Washington, there are insufficient funds to pay for conservation of fish and wildlife that are not hunted or fished (non-game). Below are several possible sources for additional funding that have been suggested. We're interested in how you feel about these sources of funding for non-game. Please select one answer for each question.

Is it unacceptable or acceptable to	Highly Unacceptable	Moderately Unacceptable	Slightly Unacceptable	Neither	Slightly Acceptable	Moderately Acceptable	Highly Acceptable
use a portion of the state revenue presently being collected from taxes appropriated by the state legislature?	0	0	0	0	0	0	0
increase the state sales tax?	0	0	0	0	0	0	0
increase federal taxes?	0	0	0	0	0	0	0
create a separate state lottery?	0	0	0	0	0	0	0
set aside a portion of sales tax on outdoor equipment (e.g., hiking boots, tents, binoculars, etc.)?	0	0	0	0	0	0	0
create a real estate transfer tax (percentage of each real estate transaction goes into a fund)?	0	0	0	0	0	0	0
add a surcharge to tourist visitation in Washington (e.g., car rental or hotel/ RV park stay)?	0	0	0	0	0	0	0

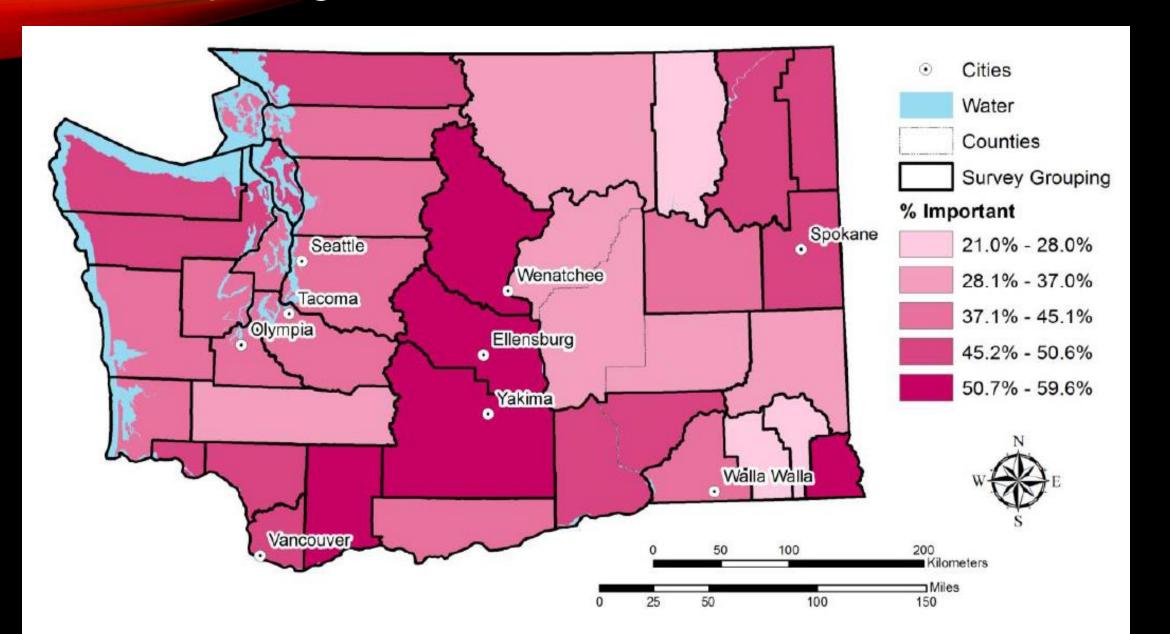
# Importance of WDFW Priorities



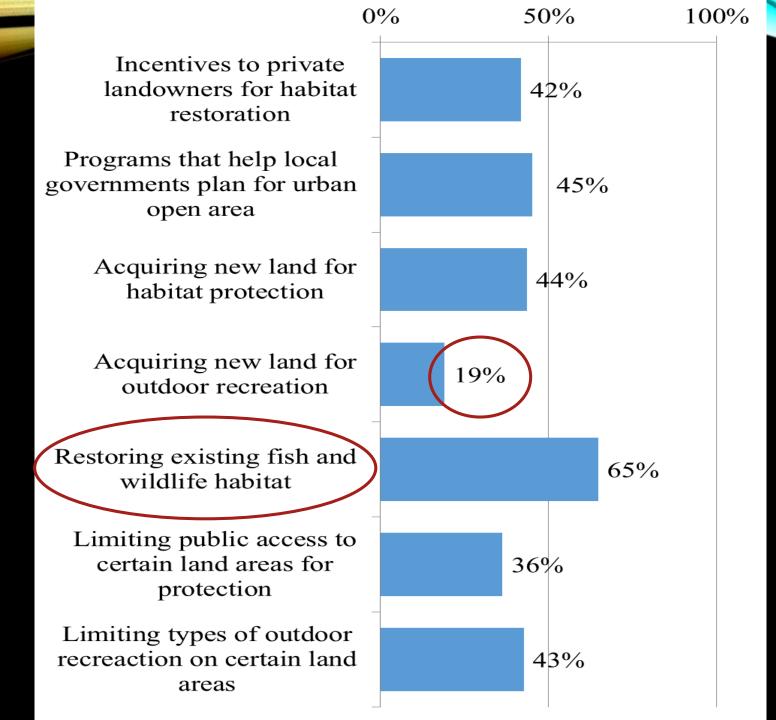
### Restoring existing lands for fish and wildlife habitat



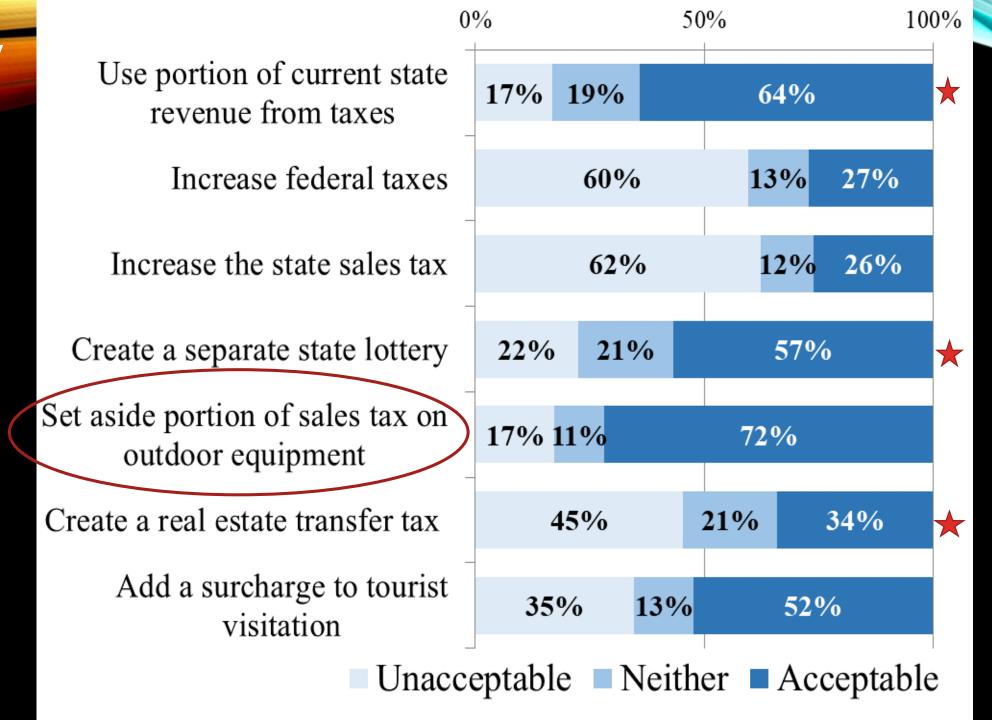
### Acquiring new lands for outdoor recreation



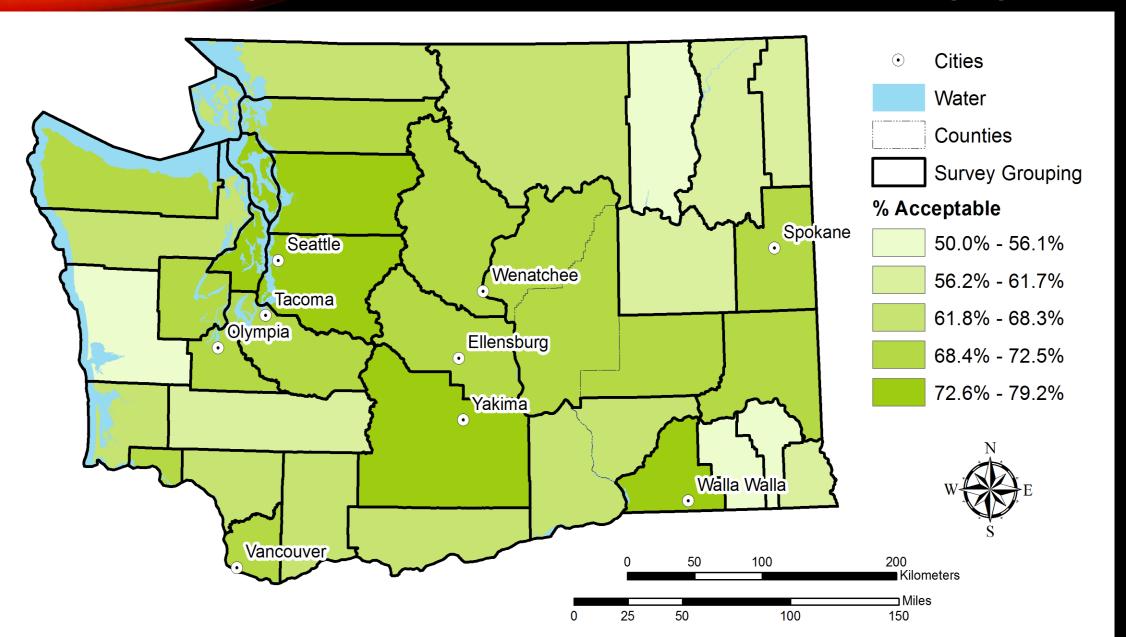
Ranking WDFW management priorities as one of the top three most important



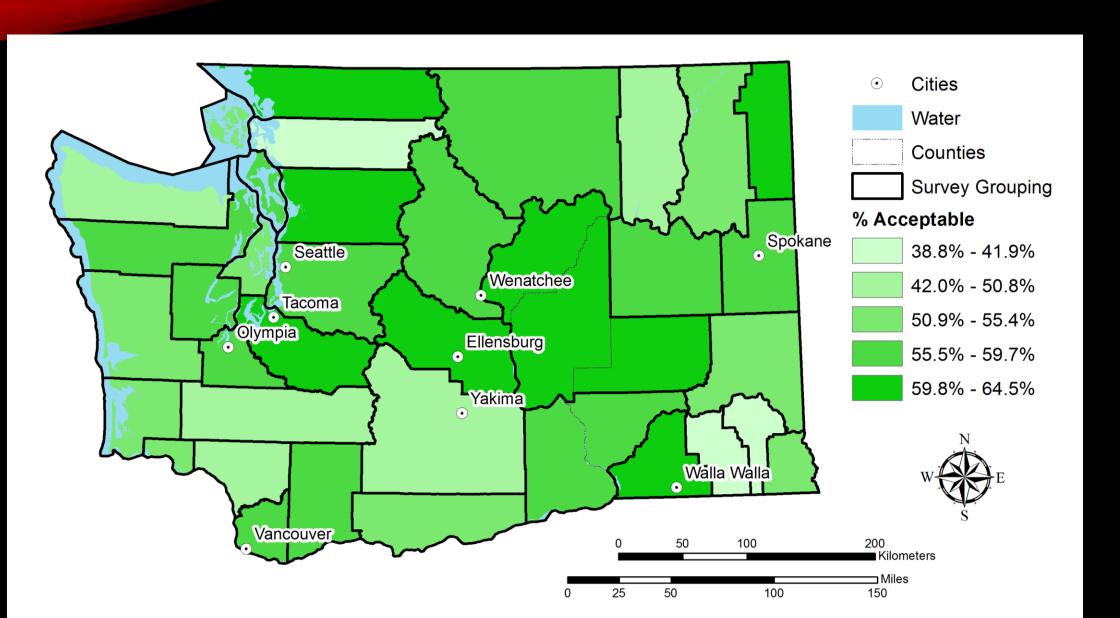
Acceptability
of Potential
Future
Funding
Sources for
Non-Game



### Set aside portion of sales tax on outdoor equipment

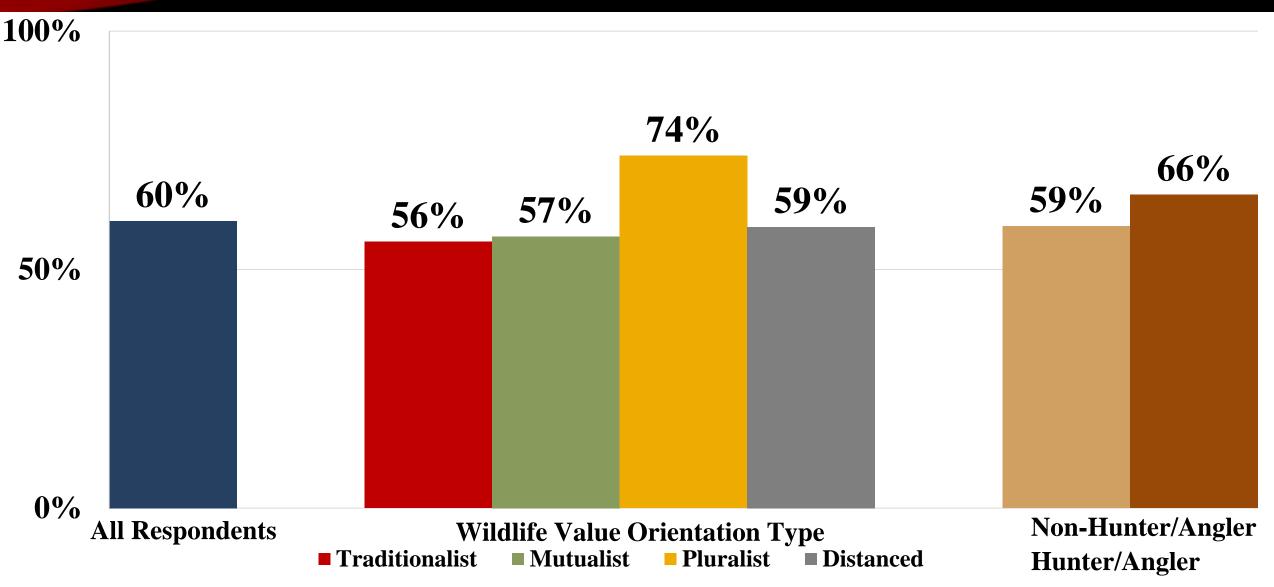


### Create a separate lottery

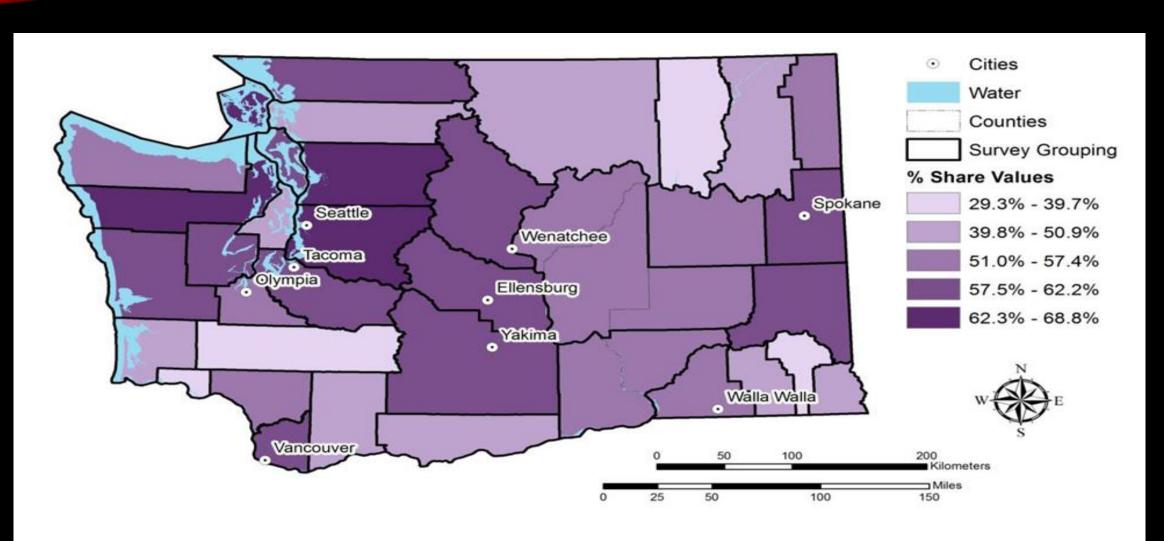


# ADDITIONAL ITEMS OF INTEREST WA

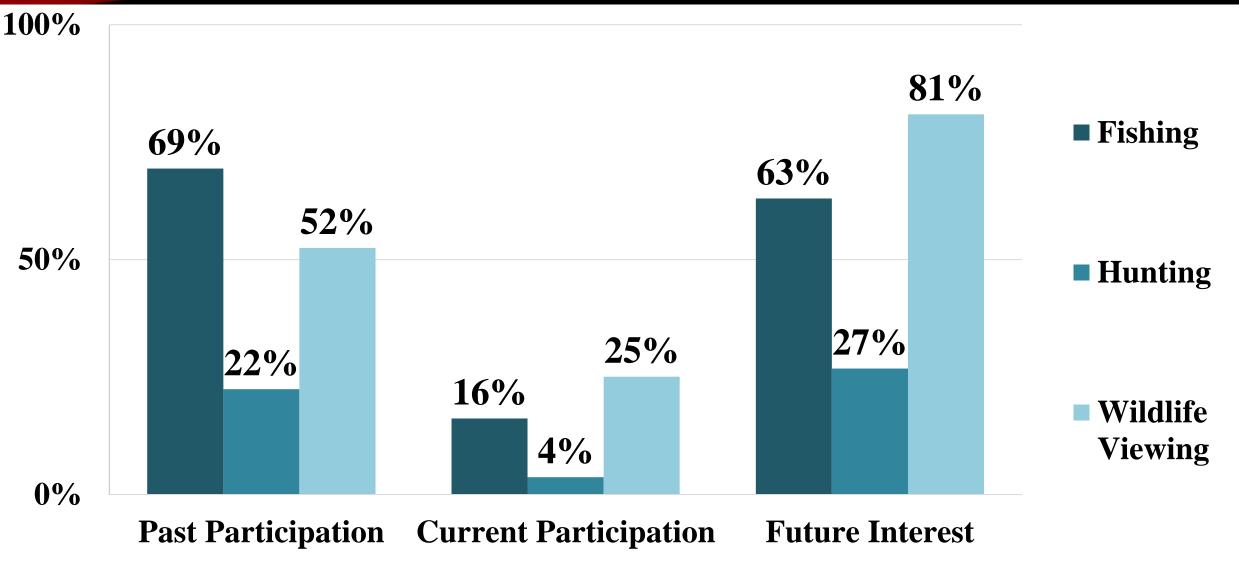
### Percent of individuals by group who believed they shared values with agency (WA)



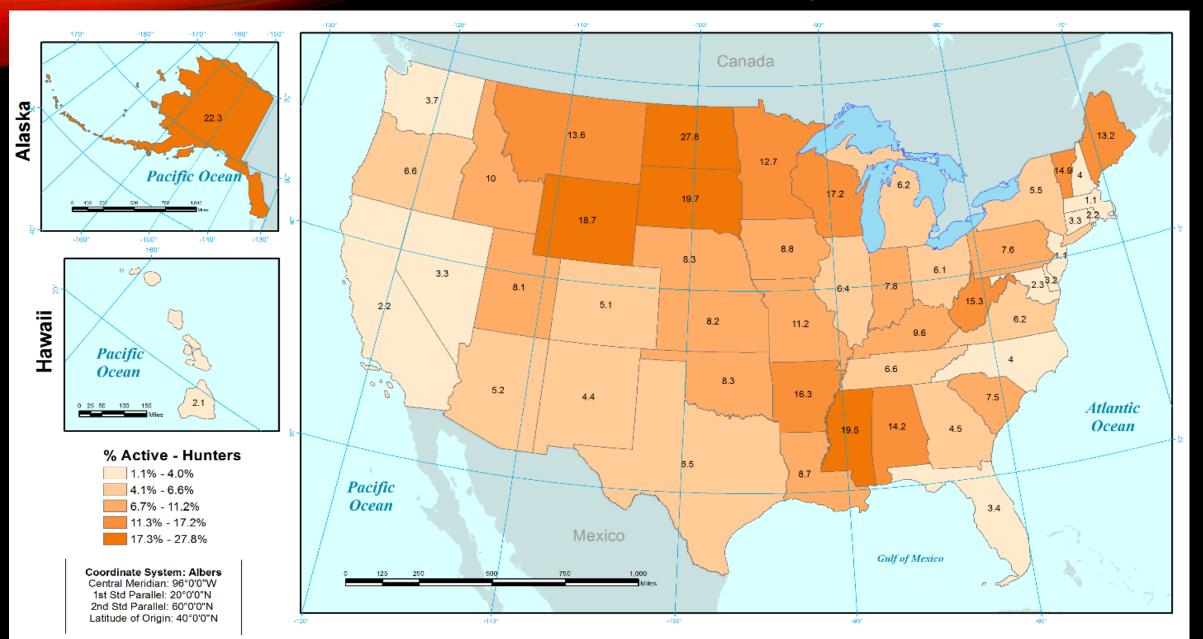
### Percent of individuals who believed they shared values with agency



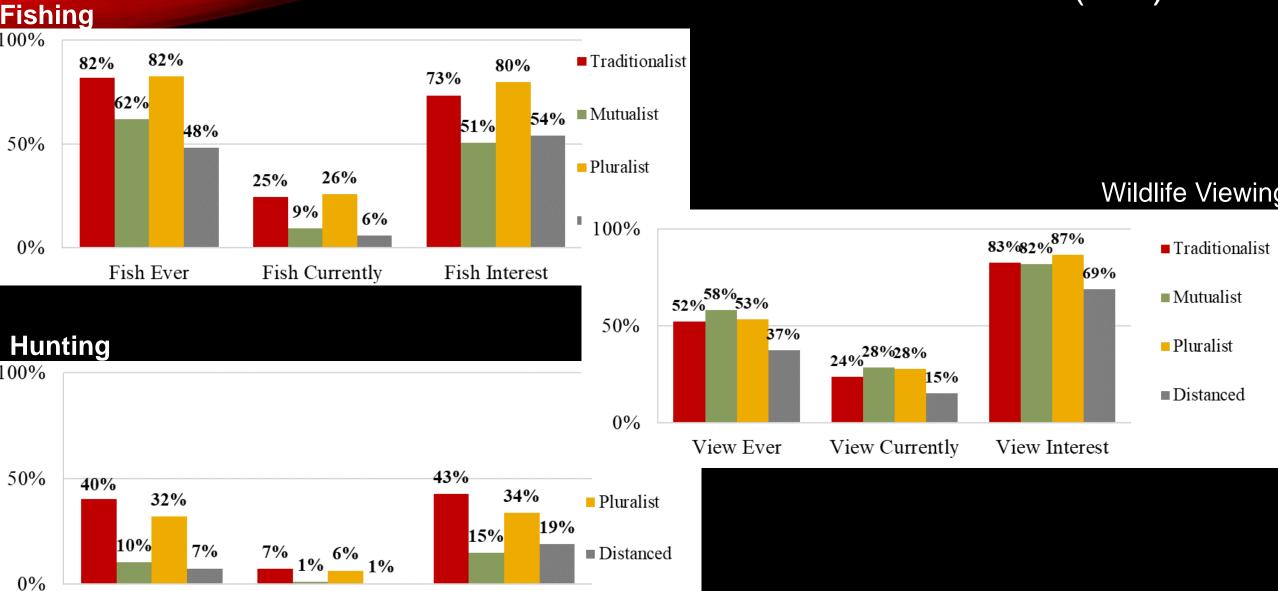
### Participation and interest in wildliferelated recreation (WA)



### Percent Active Hunters by State



Participation and interest in wildlife-related recreation by value orientation (WA)

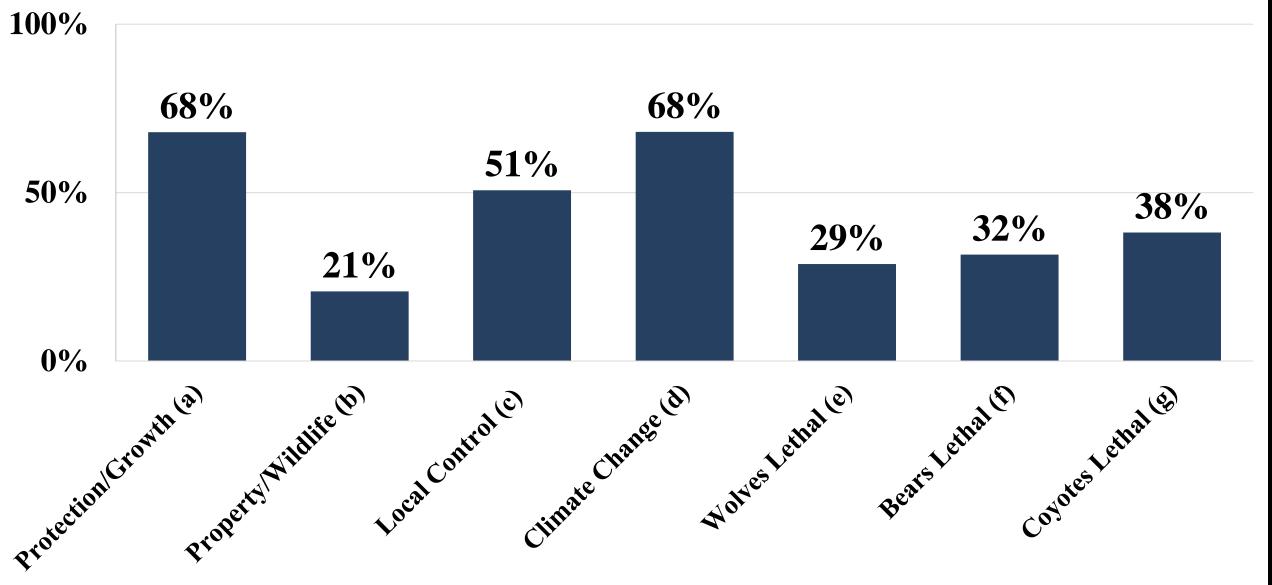


Hunt Ever

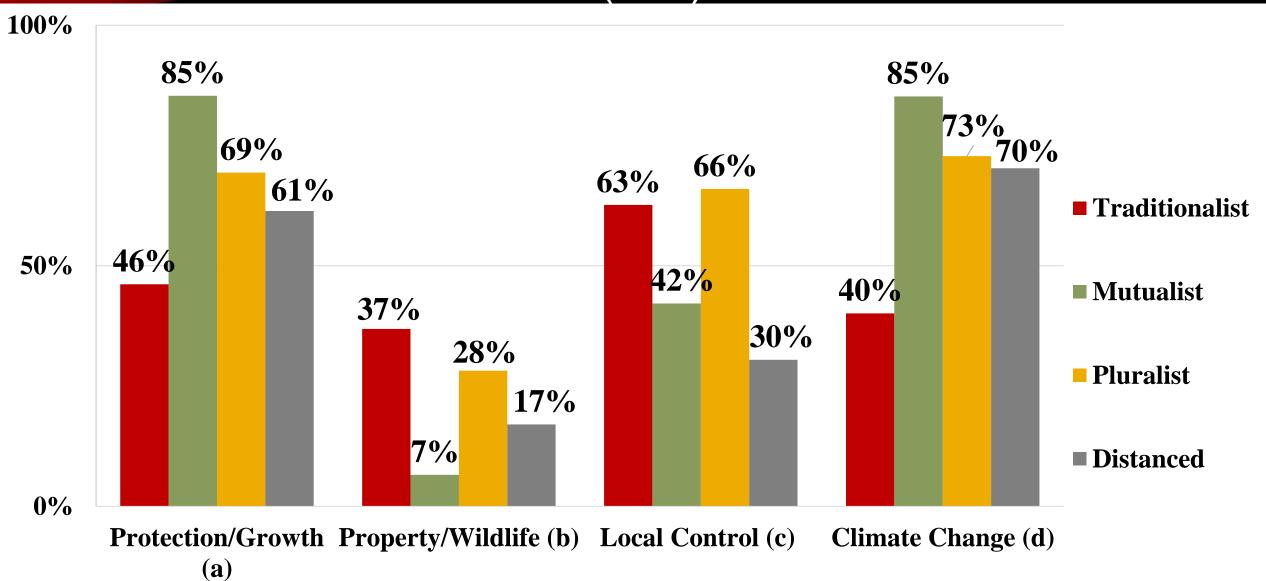
Hunt Currently

**Hunt Interest** 

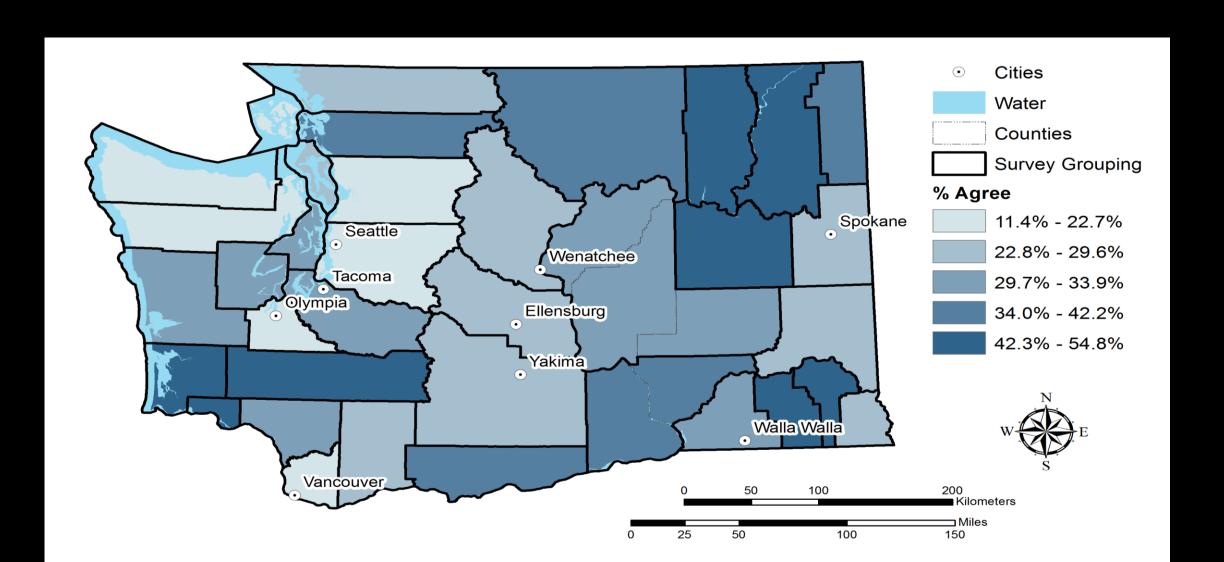
### Fish and Wildlife Management Issues (WA)



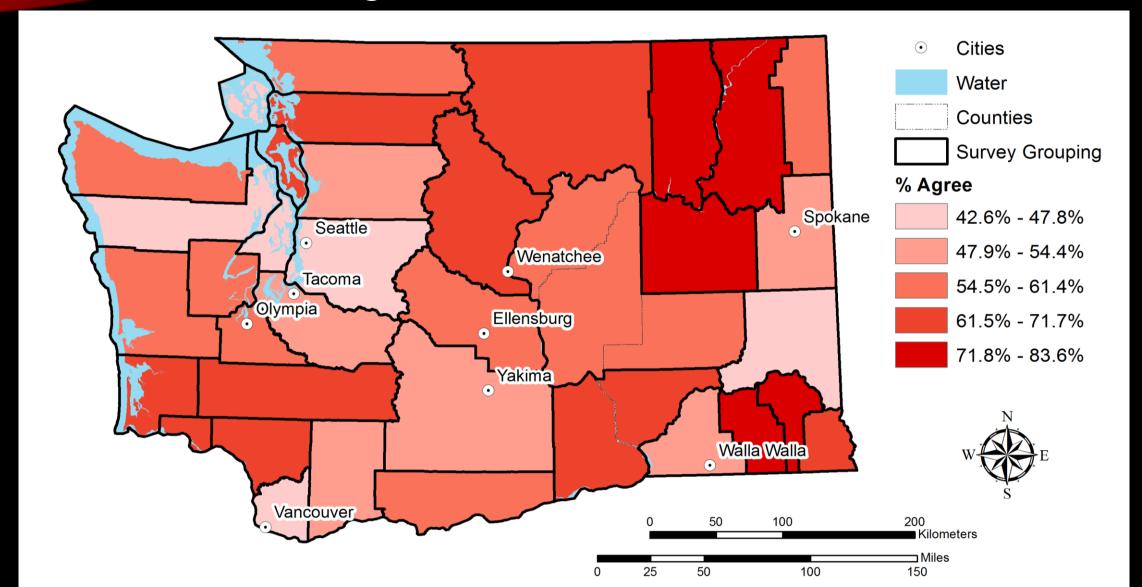
### Fish and Wildlife Management Issues (WA)



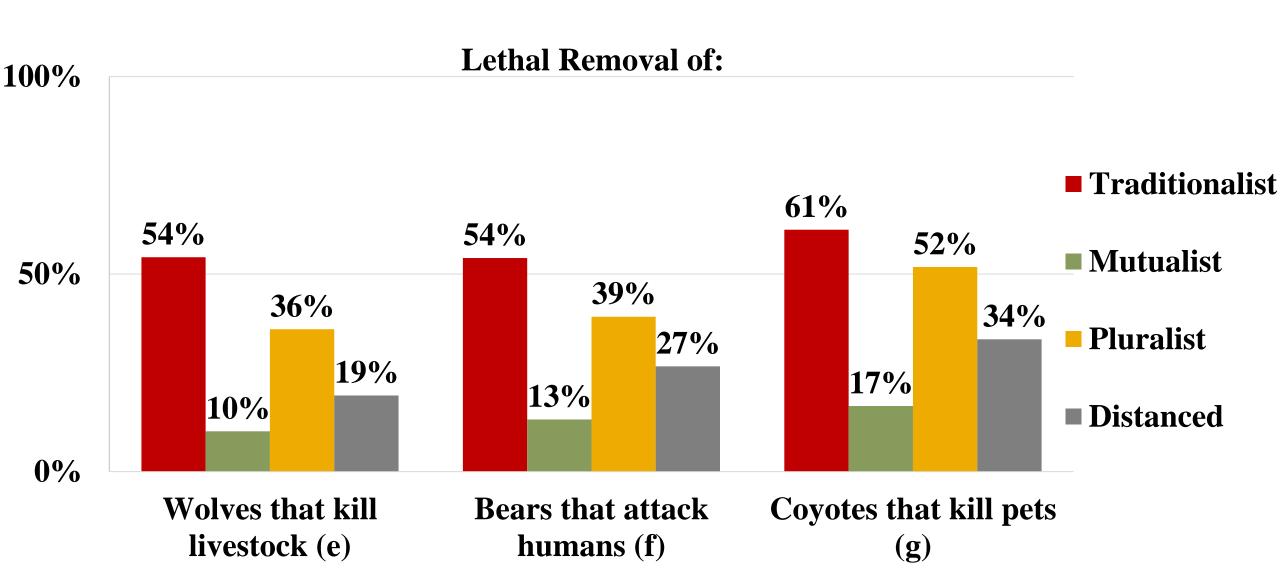
### Private property rights are more important than protecting declining or endangered species



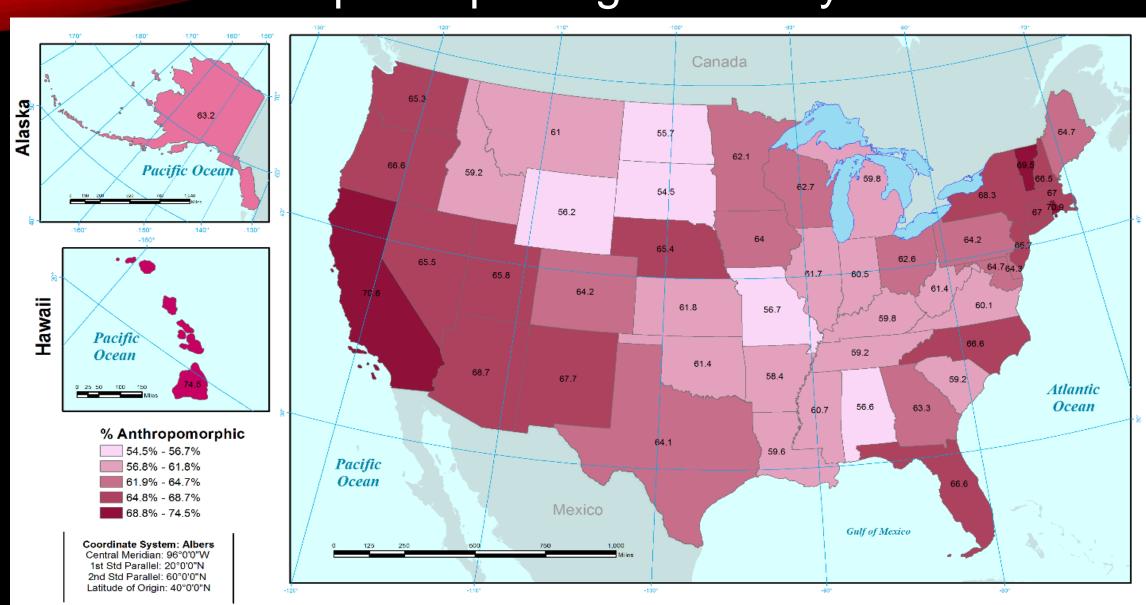
### Local communities should have more control over the management of fish and wildlife



### Fish and Wildlife Management Issues (WA)



### Percent who exhibit tendencies of anthropomorphizing wildlife by state



#### Summary from National Survey......

- Results illustrate the challenges managers will face amid a shift in values
- However, given WA slower rate of change in VOs, it might be easier to keep pace and adapt to change
  - E.g., Increased pluralists
- Importance of Agency priorities
  - Restoring fish and wildlife habitat, funding sources

#### Summary from National Survey......

- Important information to consider in future decision-making and implementation of management actions by WDFW
- Knowing geographic distribution and VO allows targeted marketing/messaging and/or action
- Results can be used to inform legislators and the legislative process
- Agency Culture Survey......

### AGENCY CULTURE SURVEY

#### Summary of Study Methods

#### Data

- 2004 Wildlife Values in the West (19 states, n > 12,000)
- 2009 People and Places (4 states)
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- 2018 Agency Culture Survey (30 States)



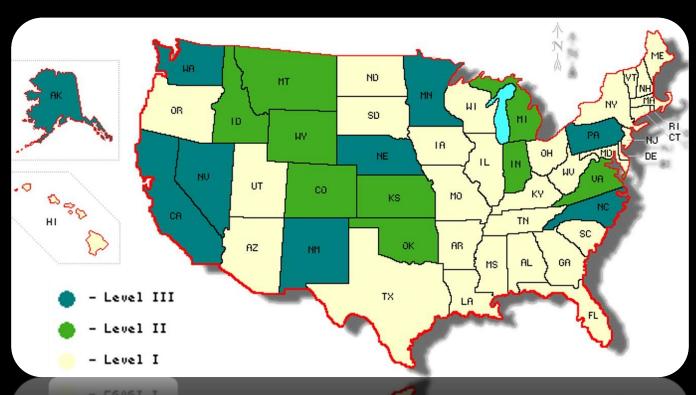
#### 2018 Survey Methods

- Two extensive pilot tests to compare and test phone, mail, and email
- Public combined mail & e-mail panel (2 waves, one for boosting numbers overall, one targeting diverse populations; total n = 43,949)
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### State Fish and Wildlife Agency Participation

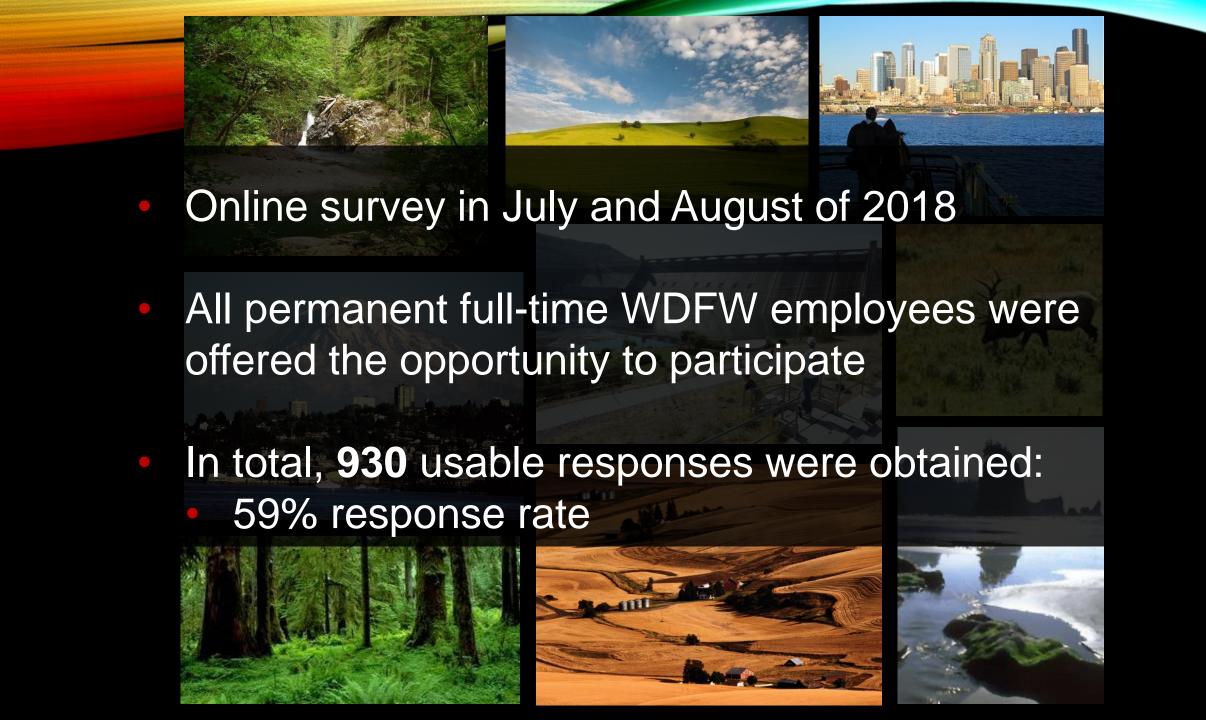
Public Survey Agency Culture Survey





#### F&W Culture Survey for WDFW

- Survey looked at:
  - Characteristics of WDFW
  - Management priorities of WDFW
  - Processes for public & stakeholder inclusion in decisionmaking
  - Employee perspectives on management and culture
  - Wildlife Value Orientations of employees
- Same survey across all participating States



# AGENCY CULTURE IN THE CONTEXT OF VALUE SHIFT

#### Unifying Mission

- Across States, employees of state fish and wildlife agencies share a unified vision of their agency's mission
- Centers around:
  - protecting natural resources (95%AA; 91%WDFW),
  - serving as management experts (94%AA; 89%WDFW)
  - enforcers of natural resource law (89%AA; 89%WDFW),
  - promoting stewardship (82%AA 72%WDFW), and
  - showing compassion toward wildlife (87%AA; 81%WDFW)

#### Differences in Fish and Wildlife Governance Style

- Continuum.....
- One end, employees view their agency placing priority:
  - Clientele model of management ,centering around
    - Attending to stakeholders and providing recreational opportunities
- Other end, employees view their agency placing priority:
  - Expert model of management, centering around
    - Sound science and meeting needs of fish and wildlife

### Types of Models of Wildlife Management

#### Agency places greater priority on:

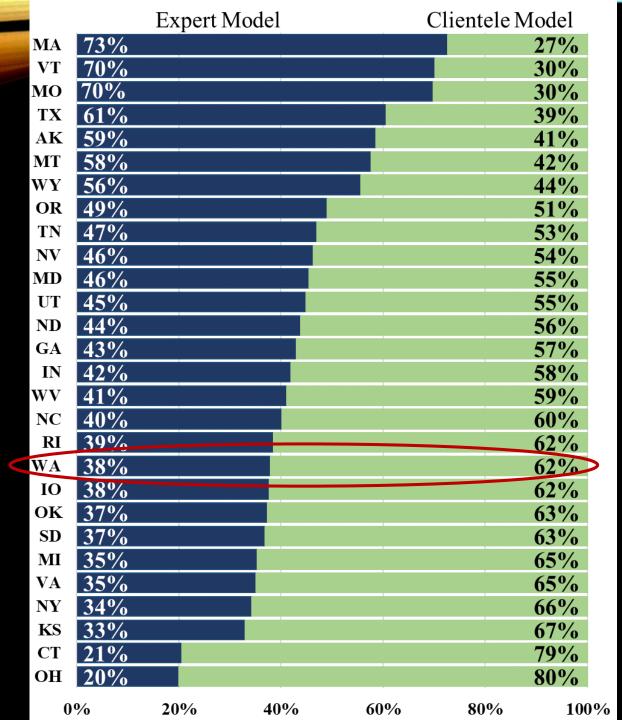
- Science
- Innovation
- Meeting the Needs of Wildlife Resources
  - Protecting Habitat
  - Focusing on the Future
    - Being Proactive

- Politics
- Tradition
- Meeting the Needs of the Public
  - Providing Recreational Opportunities
- Focusing on the Present
  - Being Reactive

**Expert Model** 

Clientele Model

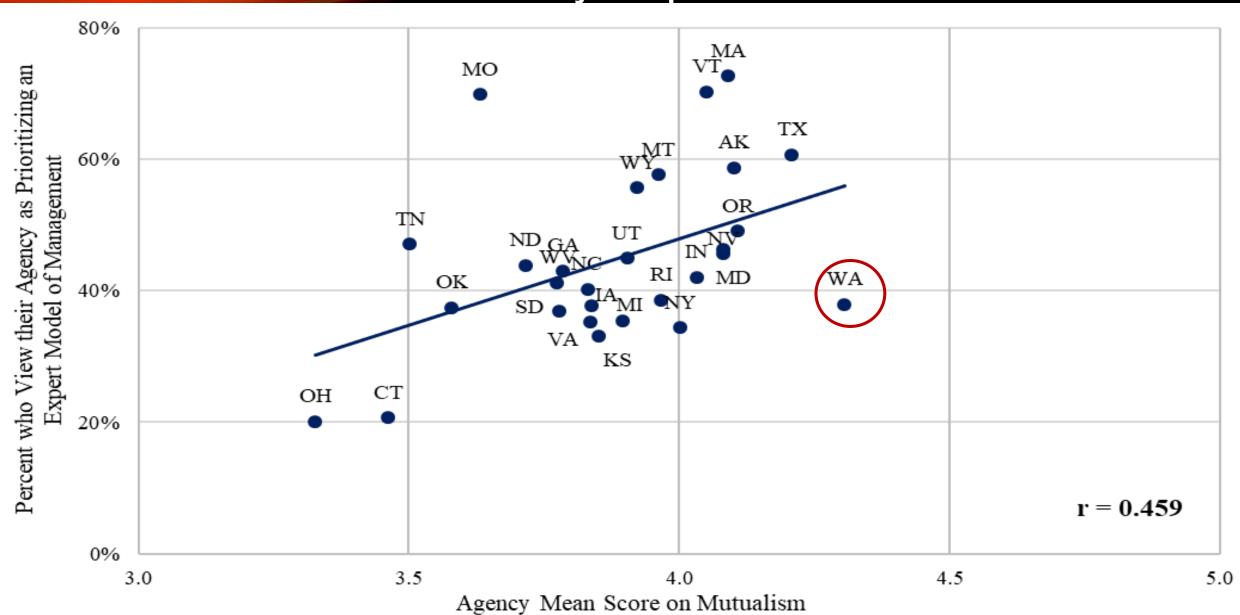
# Varying Results by State



### Value Composition

- How value composition may influence perceptions of different approaches to management
- Average mutualism score (1-7) relates to the percent of employees who view agency as prioritizing expert model
- While no agency average was on the positive side of a mutualism score, agencies with higher mutualism scores have more employees viewing their agency as prioritizing an expert model

## Mutualist by Expert Model



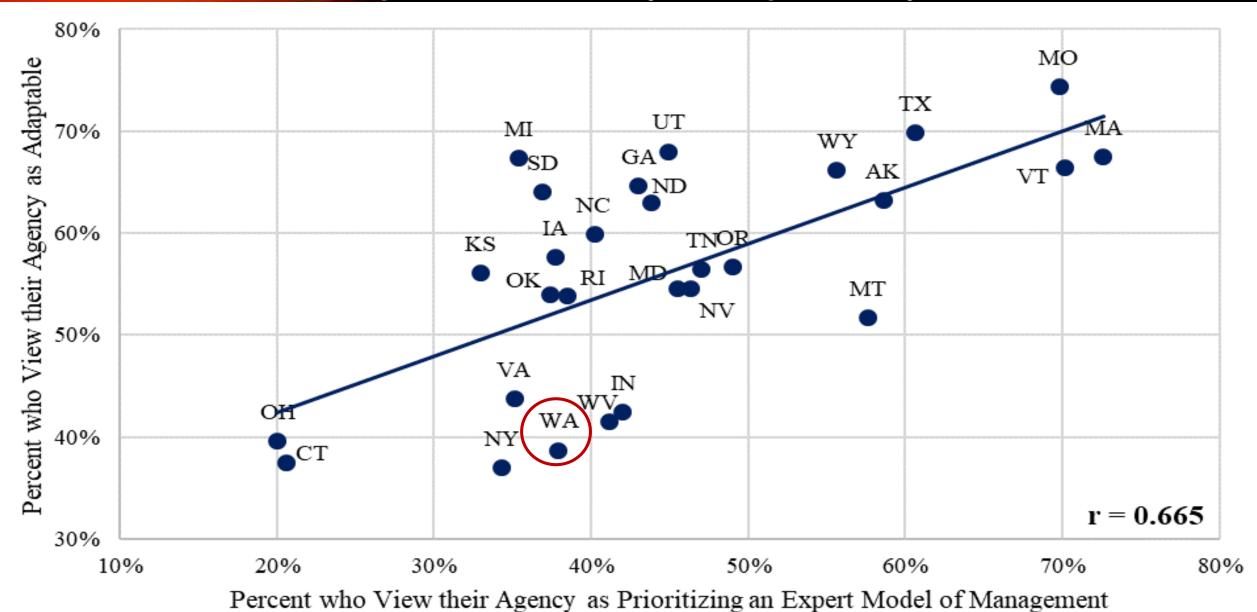
### Adaptability, Accountability, and Public Engagement

- How different management models (Expert v. Clientele) affect employee perceptions of an agency's:
  - adaptability,
  - accountability, and
  - engagement with the public

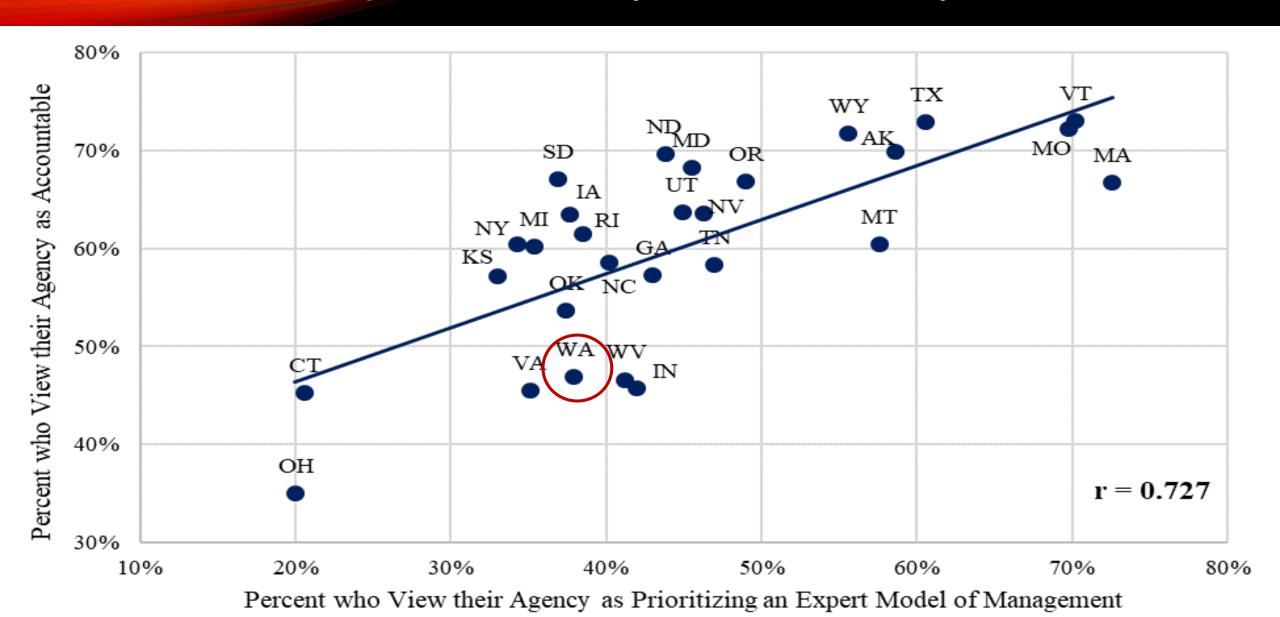
### Adaptability, Accountability, and Public Engagement

- Agency with prioritization of expert model
  - Employees are more likely to see their agency as adaptable and accountable
- Agency with prioritization of clientele model
  - Employees see need to increase engagement with public and stakeholders
- Where employees view their agency along this model spectrum,
  - Shapes employee perceptions of the agency as being adaptive in the face of change & accountable and transparent to the public

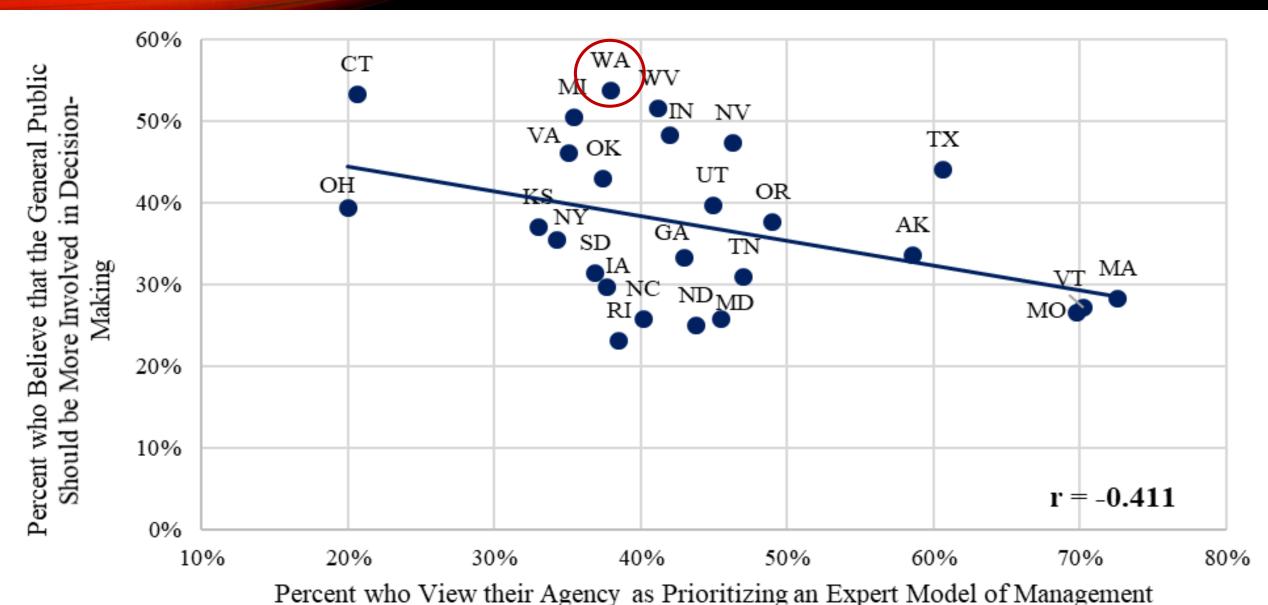
# **Expert Model by Adaptability**



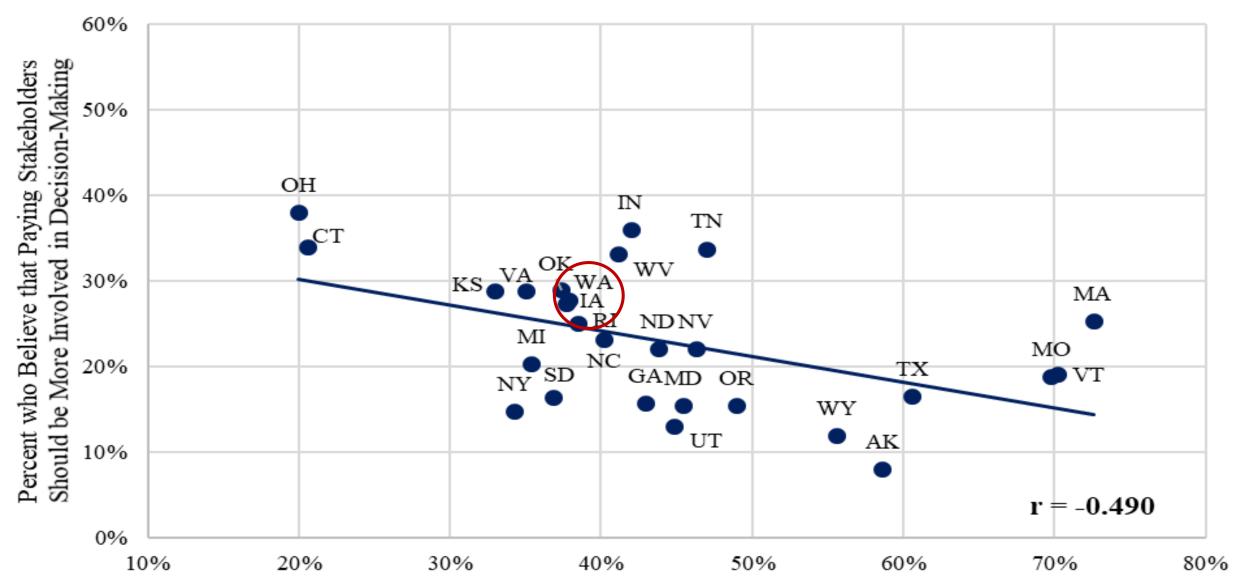
## **Expert Model by Accountability**



### Expert Model by Public Involvement in Decision Making



### Expert Model by Stakeholder Involvement in Decision Making

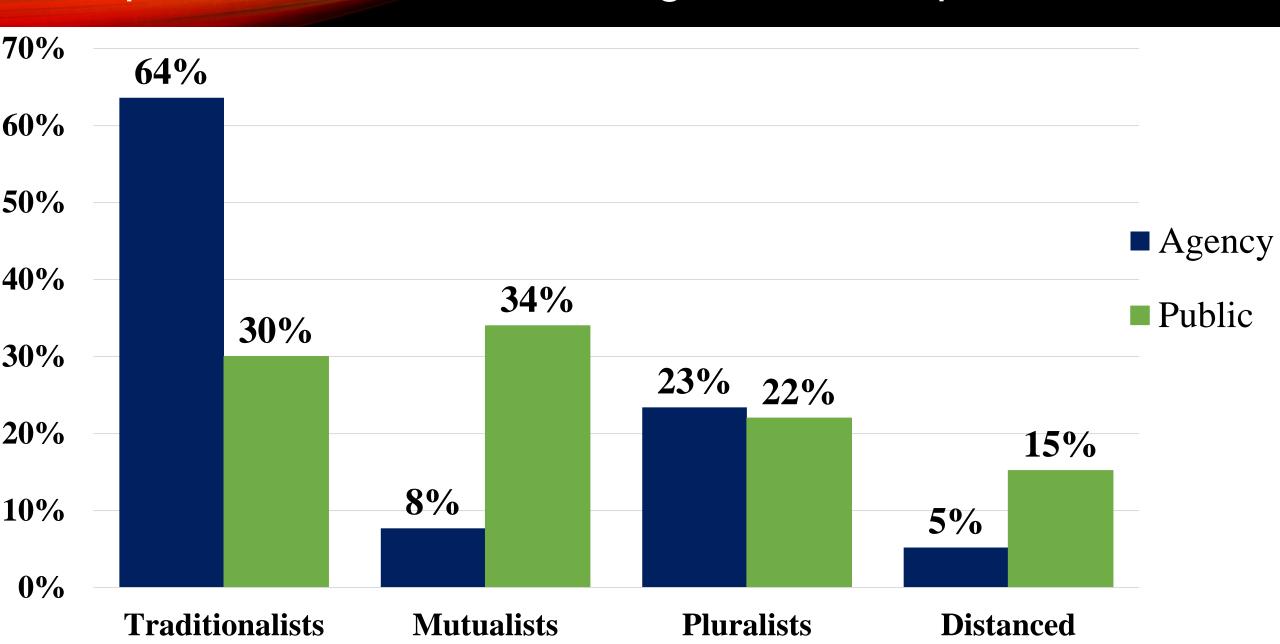


Percent who View their Agency as Prioritizing an Expert Model of Management

### Composition of Values in Agency Compared to Public

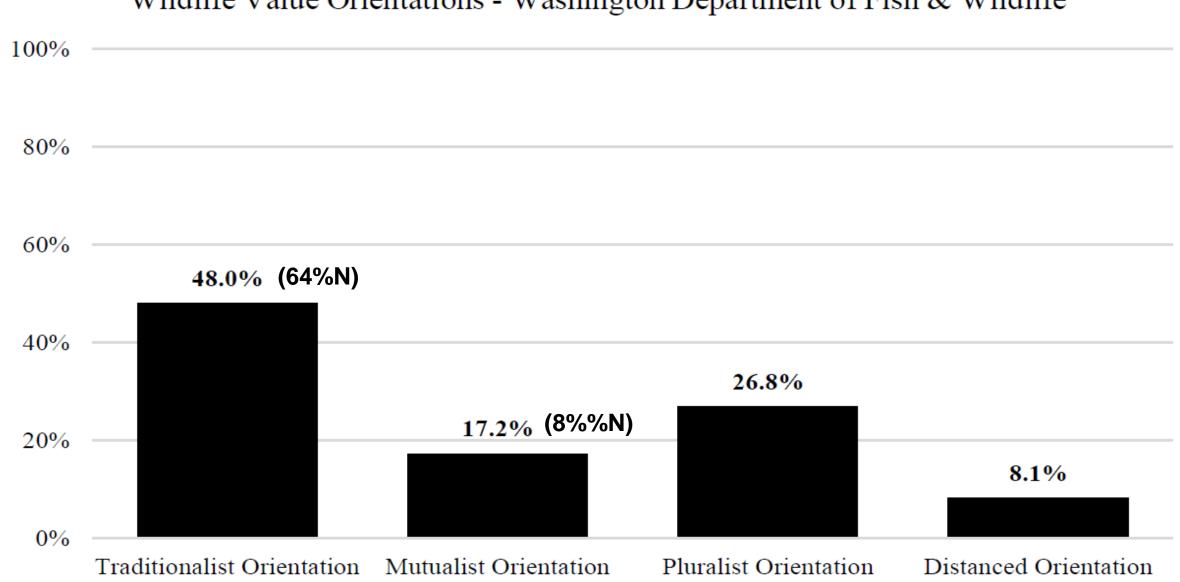
- Does the value profile of the public affect the character of the agency?
- How the composition of wildlife values in the agency compares with that of the public
- While mutualist views become more prominent among members of the public,
- Agencies still comprised primarily by utilitarian (domination) values
  - 87% either of Traditionalist or Pluralists

### Composition of Values in All Agencies Compared to Public



#### Values in WDFW

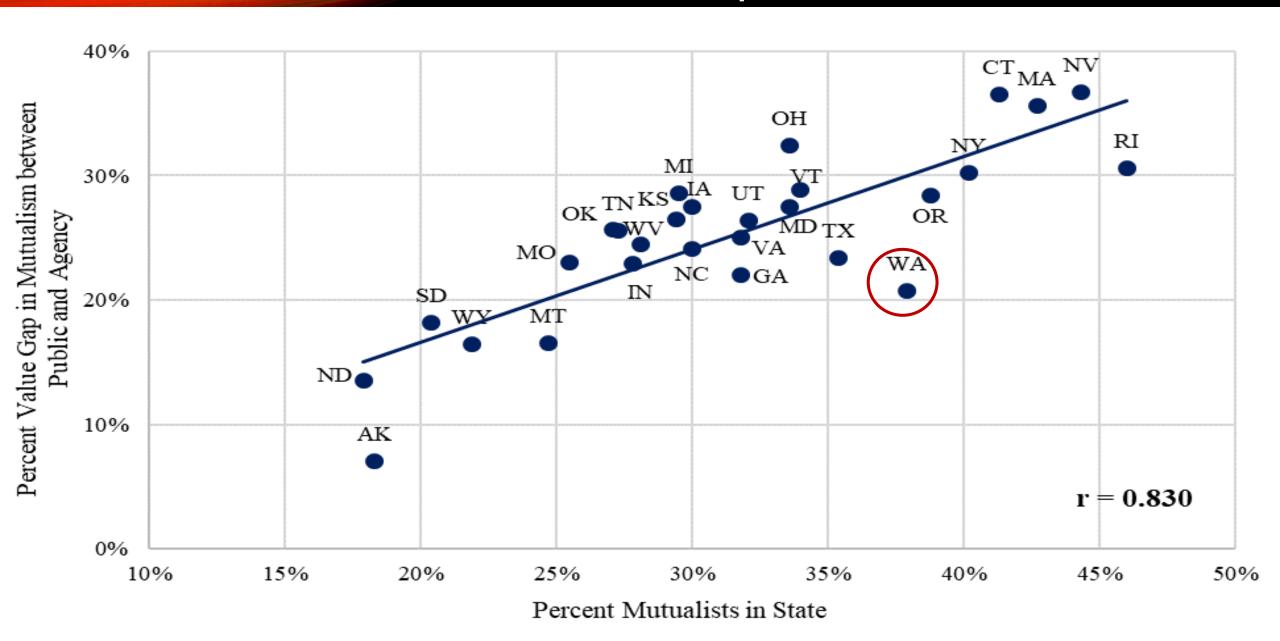
Wildlife Value Orientations - Washington Department of Fish & Wildlife



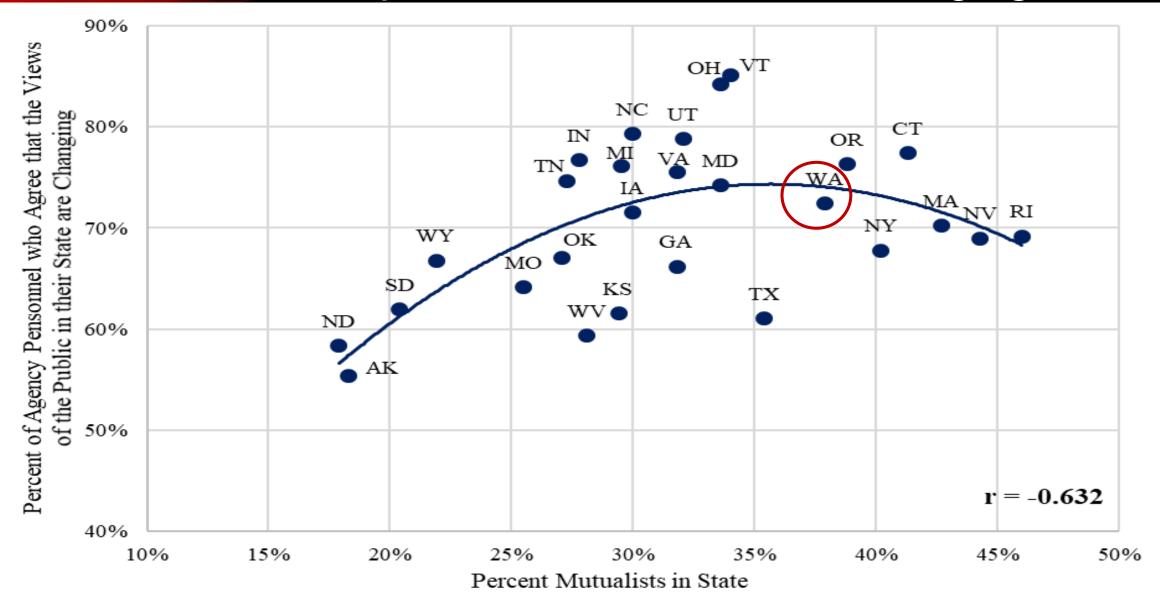
### Composition of Values in Agency Compared to Public

- As States become more mutualist, the values gap between public and agency widens
- Composition of the agency does not appear to readily reflect the changing values of the public

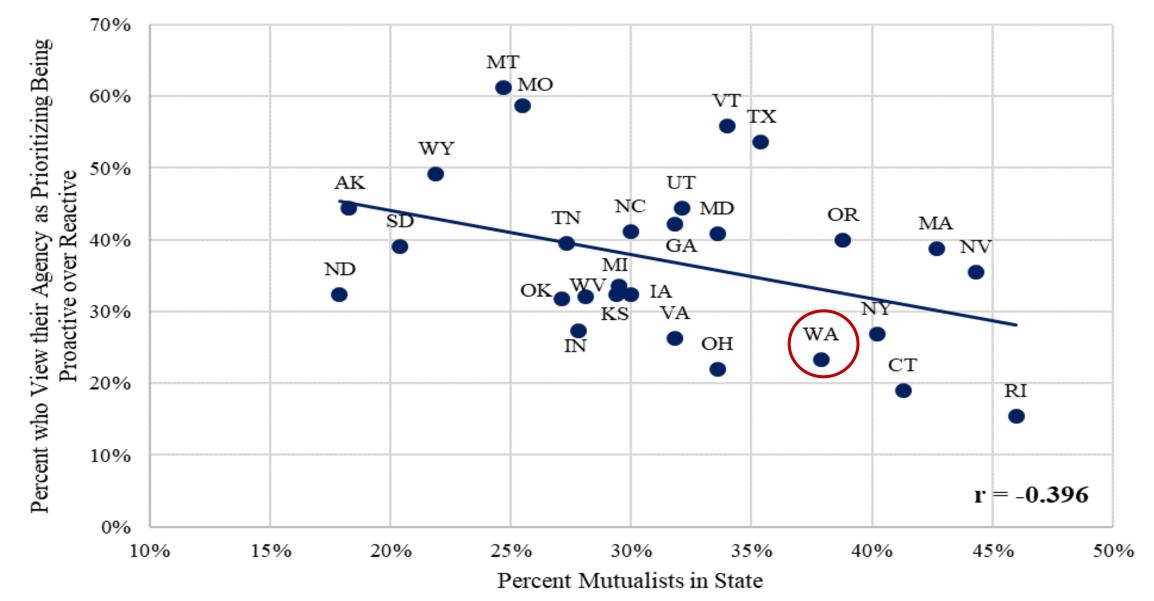
## Values Gap



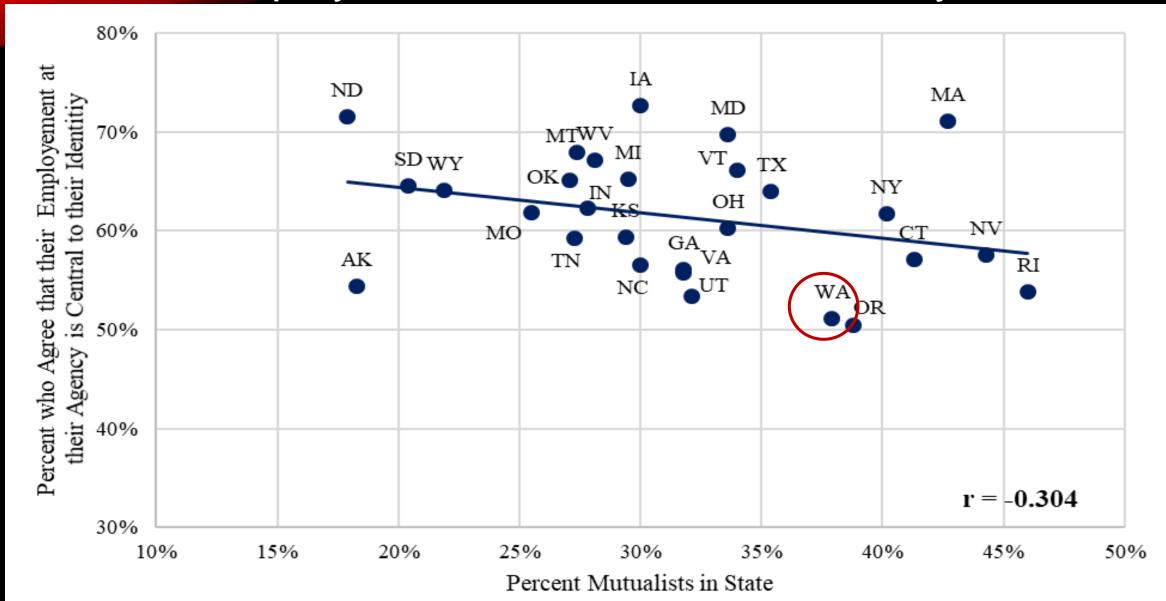
# Mutualists in state by % of agency personnel who agree the views of the public in their state are changing



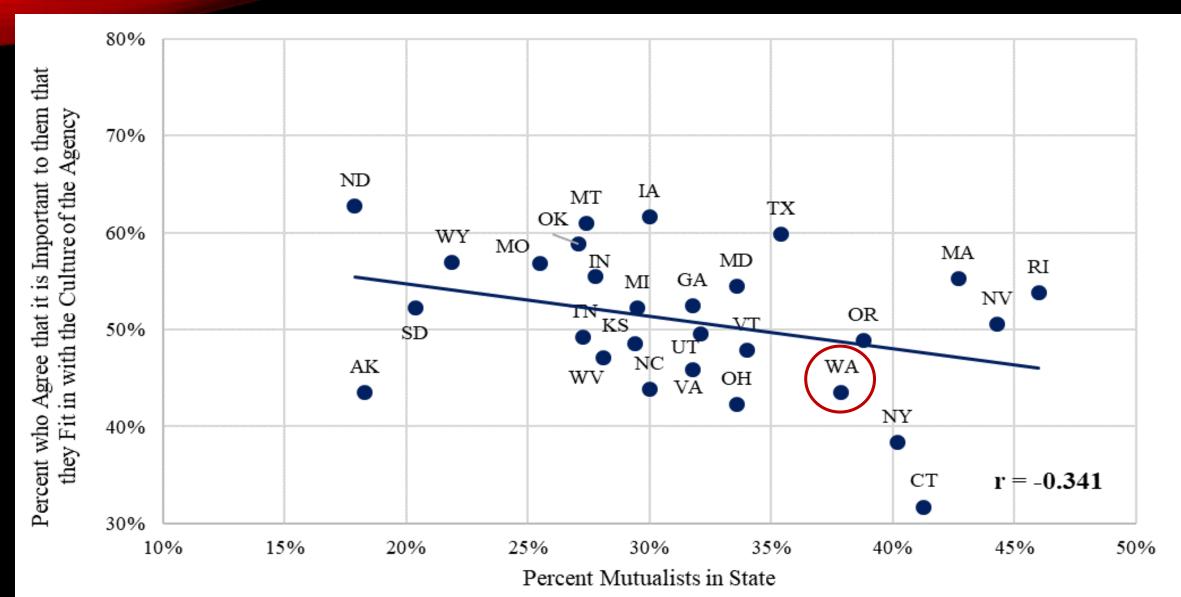
# Mutualists in state by % of agency personnel who view the agency as prioritizing being proactive over being reactive



# Mutualists in state by % of agency personnel who agree their employment is central to their identity



# Mutualists in state by % of agency personnel who agree it is important that they fit in with the culture of their agency



### **Exploring Diverse Audiences**

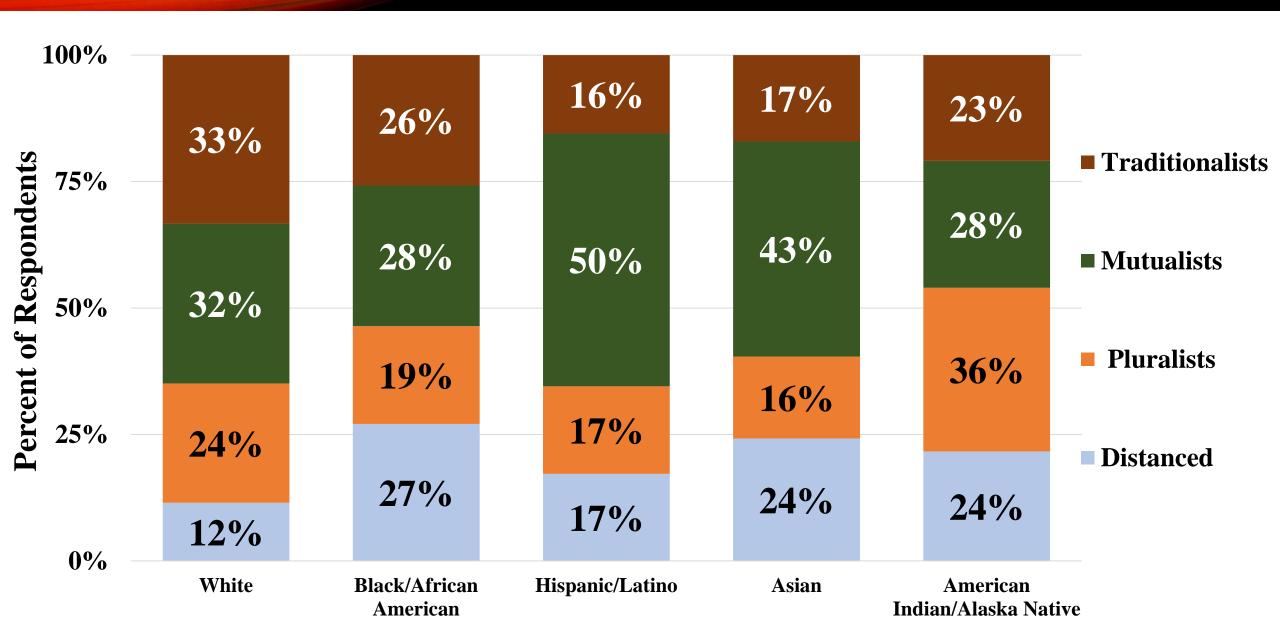
 Governance models that are not in concert with contemporary societal needs or address only limited special interests, risk having the wildlife management enterprise lose relevance to society (Organ et al. 2012)

 Good wildlife governance models will seek and incorporate multiple and diverse perspectives (Decker et al. 2016)

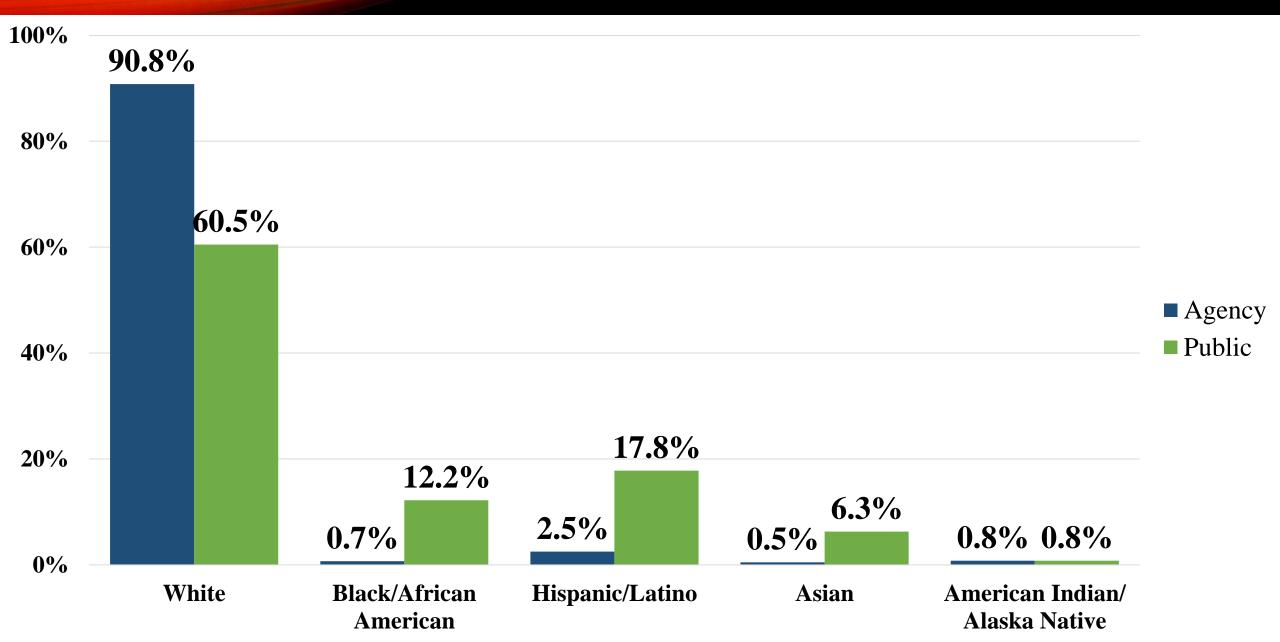
### **Exploring Diverse Audiences**

- While diversity continues to grow across U.S.,
- Wildlife profession continues to be dominated by white (91%AA; 84%WDFW) males (72%AA; 65%WDFW)
- Key to engaging more diverse audiences begins with understanding and honoring diverse ideals of humanwildlife relationships (Peterson & Nelson 2017)
- Compare the wildlife values and wildlife-related recreation behaviors of minority and non-minority groups

# Comparing wildlife values



## Comparing race/ethnicity by agencies and the public



#### Conclusions

Insight into perception of WDFW governance model

- Understand values of WDFW and values of the public
  - Difference in values between WDFW and public
- Opportunity to use this information
  - Where on the model spectrum does WDFW want to be?
  - Use information to address areas of change (e.g., adaptability, accountability, pro-activeness)
  - Recognize culture and character of WDFW (e.g., identity)
  - Organizational values a strength but also hard to change

### **Next Steps**

#### **Actions:**

- Use data from AWV to inform strategic planning, management, outreach and education, and awareness of agency culture
- Outreach of AWV information to WDFW staff for use
  - Develop an action plan on how to use this information
    - Example: To explore opportunities to maximize hunting and fishing participation, Pluralist rich areas are focus areas for Marketing outreach
- Key messages for external audience and use of study information outside the agency
- Opportunity for longitudinal look at results from 2004 2009 –
   2018 study results ~ working with CSU on additional analyses

#### THE OTHER COAST

