

Thank you for your participation!

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This research will help us improve our understanding of how fire professionals are working to mitigate the risks of wildfires in the West.

It is entirely your choice whether or not to participate in this survey. This online survey will take approximately 15 minutes to complete.

- There are no direct benefits from participation in this study.
- Risks associated with this study are minimal and include the possibility that you may choose to divulge embarrassing information. There is minimal risk associated with a series of questions that asks your state, fire jurisdiction, and wildfire experience. However, these data will only be used and reported in aggregated form and will not be used to identify any individual.
- You have the right to skip most questions in the survey, if you choose. There are only a few questions that are required as part of this survey, and they are indicated clearly. If you choose not to answer these questions you can stop the survey at any time.

If you should have questions or concerns before, during, or after your participation, please contact Deserai Anderson Crow, Ph.D., a faculty member in the University of Colorado Boulder's Environmental Studies Program, 488 UCB, Boulder, CO 80309-0488; (303)492-0364 or Deserai.crow@colorado.edu.

If you have questions regarding your rights as a participant, any concerns regarding this project or any dissatisfaction with any aspect of this study, you may report them -- confidentially, if you wish -- to the Institutional Review Board, 3100 Marine Street, Rm A15, 563 UCB, (303) 735-3702.

Do you agree to participate in this survey? (Required)

- Yes
- No

Note: WUI is used in this survey to reference property within the wildland-urban interface where human development meets a mix of wildland fire fuels. In this survey "WUI" includes the several types of WUI such as intermix, interface, and occluded areas.

In what state do you currently work (primary job location)?

- Arizona
- California
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Oregon

- Utah
- Washington
- Wyoming

What type of wildfire work does your agency conduct? Please check all that apply.

- Wildfire emergency response
- Wildfire recovery and restoration
- Wildfire mitigation
- Public outreach and wildfire education
- Wildfire suppression
- Other *please specify*

Is responding to wildfire or working to increase wildfire mitigation/prevention a primary element of your agency's mission/purpose? (Required)

- A significant part of our mission/purpose
- A fairly important part of our mission/purpose
- A fairly unimportant part of our mission/purpose
- Not part of our mission/purpose

In your opinion, how important does your agency consider wildfire mitigation on private property to be for reducing wildfire risk in your community?

- Extremely Important
- Somewhat Important
- Neither Important nor Unimportant
- Somewhat Unimportant
- Not at all Important

In your opinion, does your agency consider improving wildfire mitigation on private property to be within its mission/purpose? (Required)

- Yes, it is at the heart of our agency mission
- Yes, it is somewhat within our general mission
- It is unclear whether it is part of our mission
- No, it is not really within our mission
- No, it is very clearly outside of our mission

Which of the following types of mitigation does your agency promote? Select all that apply.

- Any mitigation is better than none, so we don't have a specific approach
- We focus on reducing vegetative fuels on the property (i.e. thinning trees)
- We focus on improving home defense (i.e. raking needles, cleaning gutters)
- We focus on structural mitigation (i.e. installing fire-resistant siding)
- We focus on mitigation within the immediate home perimeter (+/- 30 feet from the structure)
- We focus on mitigation farther from the home perimeter (30-100 feet from the structure)
- Other, please specify

How many hours per week do you work on mitigation as part of your professional duties, either directly or indirectly?

	0 hours per week					25 hours per week					50 hours per week						
	0	5	10	15	20	25	30	35	40	45	50						
Direct physical mitigation activities																	
Mitigation education and outreach to the public and residents																	
Acting as a resource for individuals to obtain mitigation advice, grants, or other resources																	
Meeting with fire professionals from other agencies or jurisdictions to coordinate or plan fire response																	
Meeting with fire professionals from other agencies or jurisdictions to coordinate or plan fire prevention or mitigation outreach																	
Other, please specify																	

What strategies does your agency use to inform or promote wildfire mitigation by residents in the WUI? While some of these may be done in combination, please consider each one separately below.

	Very Often	Quite Often	Sometimes	Rarely	Never
Public meetings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Face-to-face individual contacts with residents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Literature and other educational documents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Website information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working with citizens to get information to their neighbors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community wildfire planning and coordination efforts (i.e. Firewise communities)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What strategies do you think are most effective to inform or promote wildfire mitigation by residents in the WUI?

	Very effective	Somewhat effective	Neither effective nor ineffective	Somewhat ineffective	Very ineffective
Public meetings or information sessions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Face-to-face individual contacts with residents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Literature and other educational documents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Website information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working with citizens to get information to their neighbors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community planning or coordination efforts (i.e. Firewise communities)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you know of any particularly effective programs that agencies (including your own) use to increase wildfire mitigation on private property, please tell us about them here.

Does your agency perform individual risk assessments for residential or commercial properties within your jurisdiction? (Required)

- Yes
- No
- No, but we refer residents to other local resources

What approach does your agency use with regard to risk assessment on private property? Check all that apply.

- We assess risk for all individual properties within our jurisdiction
- We assess risk for properties when we are asked to do so
- Risk data are publicly available for anyone to see
- Risk data are private (i.e. secured by a password)
- We use a simple color-coding risk scheme (i.e. red = high risk, green = low risk)
- We report risk data using numerical or statistical data
- We use another method (please describe)

In general, how do residents respond to the following types of wildfire outreach?

	Very receptive	Somewhat receptive	Neither receptive nor unreceptive	Somewhat unreceptive	Very unreceptive
Risk assessment on their property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mitigation outreach through community events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Education and information on general wildfire risk that is available as brochures or other literature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Education and information on general wildfire risk that is available online	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Requirements or ordinances for mitigation on private property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Information about mitigation resources and financial assistance for mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please tell us how successful or unsuccessful your agency's wildfire mitigation outreach has been in the past. Are there certain barriers to making it more successful (funding, personnel, support from agency management, etc.)?

Have your agency's wildfire mitigation and outreach strategies changed in important ways over the past decade, or in response to a particular fire? Please tell us how they have changed, if at all.

Please indicate if you agree or disagree with the following statements about wildfire mitigation and management.

	Strongly agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
Residents seem to understand the importance of wildfire mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residents seem to be doing more wildfire mitigation on their property than in the past	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residents seem to mitigate more when their neighbors are also mitigating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wildfire risk seems to be getting more severe in the WUI around where I work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fire management agencies are overburdened	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fire management agencies are underfunded	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fire professionals are adequately trained on fire prevention and mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate if you agree or disagree with the following statements about the causes and appropriate responses to wildfire risk in the WUI.

	Strongly agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
Wildfire is a natural part of a healthy ecosystem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More people moving into the WUI is the primary cause of					

increased wildfire risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate change seems to be making wildfire risk higher than in the past	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Normal cycles of drought seem to be making wildfire risk higher recently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Disease and pests (i.e. bark beetle) seem to be making wildfire risk higher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recreational use on public land increases wildfire risk in the WUI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Government regulation or building ordinances are the most appropriate way to reduce wildfire risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residents who live in the WUI should be taxed or charged a fee to help with firefighting and mitigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Residents in the WUI should be legally required to mitigate on their property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Education about risk and wildfire mitigation is the best way to deal with wildfire risk in the WUI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insurance companies should refuse coverage to high-risk properties in the WUI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Note: The questions on the next two pages ask you to drag-and-drop the choices to rank-order your preferences.

Please rank the following approaches to wildfire prevention and mitigation on private property in the WUI, according to your personal preference (1 = the best approach, 5 = the worst approach).

Government regulation or ordinances on construction in the WUI

• _____

Taxes or fees to pay for wildfire mitigation and firefighting in the WUI

• _____

Requirements for residential wildfire mitigation in the WUI

• _____

Education and outreach to residents of the WUI, focused on encouraging mitigation

• _____

Insurance company pressure or requirements to mitigate in the WUI

• _____

Please rank which entities you think should be most responsible for improving wildfire prevention and mitigation in the WUI, in your opinion (1 = the most responsible entity, 5 = the least responsible entity).

• _____

Homeowners

- _____
- Fire management or response agencies
- _____
- Local governments, including building or planning departments
- _____
- Insurance companies
- _____
- Groups of homeowners in a community or neighborhood
- _____

Please rank the effectiveness of these mitigation outreach and education strategies, based on your experience (1 = most effective, 7 = least effective).

Face-to-face contact with residents

- _____
- Public meetings
- _____
- Community events
- _____
- Literature on mitigation and wildfire risk
- _____
- Website content focused on mitigation and wildfire risk
- _____
- Residents' personal experience (i.e. being evacuated)
- _____
- "Peer pressure", or contacts from neighbors and friends
- _____

Please rank the most desirable risk assessment and education strategies, in your opinion and if cost were not a factor (1= most desirable, 4 = least desirable).

Assessment of all properties within the WUI - publicly available data

- _____
- Assessment of all properties within the WUI - privately available data
- _____
- Assessment of properties within the WUI only when owners request it - privately available data
- _____
- Assessment of properties within the WUI only when owners request it - publicly available data
- _____

In what states have you previously worked? Please only count states where you have held a full-time fire position. Check all that apply.

- Arizona
- California

- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Oregon
- Utah
- Washington
- Wyoming
- Other, please specify

What jurisdiction level of fire management do you currently work within?

- Federal
- State
- County
- Municipal
- Rural
- Private or NGO
- Other, please specify

What jurisdiction level of fire management have you previously held a fire-related position? Check all that apply.

- Federal
- State
- County
- Municipal
- Rural
- Private or NGO
- Other, please specify

Is your current agency a volunteer fire agency?

- Yes
- No

What description best matches the WUI where you work?

- The WUI constitutes a majority of the property in our jurisdiction
- The WUI constitutes about half of the property in our jurisdiction
- The WUI constitutes the minority of property in our jurisdiction
- We don't really have much WUI in our jurisdiction
- Other, please specify

Please indicate the characteristics of the WUI where you work. Check all that apply.

- Large rural residential parcels of property surrounded by forested land
- Small communities or enclaves within forested areas
- Significant suburban or urban development in the WUI
- The WUI is nearby, but does not include private property

What best describes the WUI wildfire risk where you work.

- Extreme wildfire risk
- High wildfire risk
- Moderate wildfire risk
- Low wildfire risk
- Mixed wildfire risk across the WUI

What best describes development over the past decade in the WUI where you work?

- Very high growth rate
- Somewhat high growth rate
- Moderate growth rate
- Somewhat low growth rate
- Low growth rate

Which role describes your primary job duty related to wildfire?

- Wildfire management or administration
- Wildfire response (firefighting)
- Wildfire recovery or restoration

- Fuels management
- Wildfire education/outreach
- Other please specify

What other roles are included in your job duties? Check all that apply.

- Wildfire management or administration
- Wildfire response (firefighting)
- Wildfire recovery or restoration
- Fuels management
- Wildfire education/outreach
- Other please specify

What formal training do you have in wildfire response, management, etc.? Check all that apply.

- Undergraduate education
- Graduate education
- Federal wildfire training
- On-the-job training with your agency
- Other please specify

Please list your highest fire qualifications and any relevant fire certifications.

Please indicate the number of years you have worked in wildfire.

- 0-5 years
- 6-10 years
- 11-15 years
- 16-20 years
- 21-25 years
- More than 25 years

What is your gender?

- Male
- Female

How old are you?

- 18-25
- 26-34
- 35-54
- 55-64
- 65 or over

What is the highest level of education you have completed?

- Less than High School
- High School / GED
- Some College
- 2-year College Degree
- 4-year College Degree
- Masters Degree
- Doctoral Degree
- Professional Degree (JD, MD)

What best describes your political affiliation?

- Democrat
- Republican
- Libertarian
- Green Party
- Independent
- Other. Please specify

Are you willing to be contacted by researchers to participate in other wildfire mitigation research? If you answer yes here, you are not obligated to participate, but may be contacted by email in the future.

- Yes, please enter your email address here:

No

Is there anything else you would like to add about your experience with wildfire mitigation and outreach that we have not asked?