



Wildfire Ready

*Training for Washington CD staff and partners
utilizing FEMA Hazard Mitigation Grant Funds*



Washington State
Conservation
Commission

Mike Baden, NE Regional Manager
NASCA 2021

Hazard Mitigation Grant Activities

- Assessing Structure Ignition Potential from Wildfire (ASIP) – 7 trainings
- World of Wildfire: Post Fire Risk Mitigation and Assessment Training – 1 training
- Outreach Strategies for Community Wildfire Preparedness and Recovery – 2 trainings
- Home Ignition Zone Site Assessments



Hazard Mitigation Grant Trainings

- Applied for the FEMA HMGP grant late 2018
- Signed contract in May 2020
- \$259,243 total cost – 12.5% local match required
- Trainings were originally intended to be in person starting in the fall of 2020
- Then.....COVID required trainings be adapted to virtual
- First trainings occurred in spring of 2021



Hazard Mitigation Grant Program (HMGP) Subapplication

Washington State Conservation Commission
Comprehensive Wildfire Mitigation & Preparedness Training

December 2018

WASHINGTON STATE EMERGENCY MANAGEMENT DIVISION
HAZARD MITIGATION ASSISTANCE GRANTS
www.mil.wa.gov/HMAGrants | HMA@mil.wa.gov
253-512-7442

Assessing Structure Ignition Potential from Wildfire (ASIP)

**You're invited to attend this
FREE training!**



ASSESSING STRUCTURE IGNITION POTENTIAL FROM WILDFIRE

**October 26th-29th
8:30 am - 12:30 pm
each day
This is a virtual training.**



CONSERVATION DISTRICTS
OF WASHINGTON STATE
your window to healthy lands

SPACE IS LIMITED!

RSVP HERE: <https://bit.ly/3BAMkSd> **by October 13th.**

**Questions? Contact Jenny Coe at the Whatcom Conservation District
jcoe@whatcomcd.org or 206-355-5609**



NATIONAL FIRE PROTECTION ASSOCIATION
The leading information and knowledge resource on fire, electrical and related hazards

Preparing for the HIZ Assessment

Module 4



Mike Baden, SCC



NATIONAL FIRE PROTECTION ASSOCIATION
The leading information and knowledge resource on fire, electrical and related hazards

Conducting the HIZ Assessment *Putting Understanding into Practice*

Module 5

Assessing Structure Ignition Potential from Wildfire (ASIP)

Module 1: Introduction and Context

Upon completion of this module participants should be able to:

- Establish a historical context of wildfires associated with home destruction
- Establish an ecological context of wildland fire occurrence
- Appropriately define the WU fire problem to guide an effective approach for preventing WU fire disasters

Module 2: Wildland-Urban Fire Characteristics – How the Disaster Occurs

Upon completion of this module participants should be able to:

- Show the residential patterns resulting from extreme wildland-urban (WU) fire conditions
- Describe how WU fire disasters occur
- Discuss the implications of how home destruction occurs and the opportunities for effective WU mitigation

Module 3: Home Ignition and the Home Ignition Zone (HIZ)

Upon completion of this module participants should be able to:

- Understand the basic fire science of how home ignitions can occur
- Given an understanding of ignition, fire, and heat transfer, assess home ignition potential

Module 4: Preparing for the HIZ Assessment

Upon completion of this module participants should be able to:

- Organize the HIZ to systematically evaluate structure vulnerabilities
- Learn about how home ignitions occur from actual examples

Module 5: Conducting the HIZ Assessment -- Putting Understanding into Practice

Upon completion of this module participants should be able to:

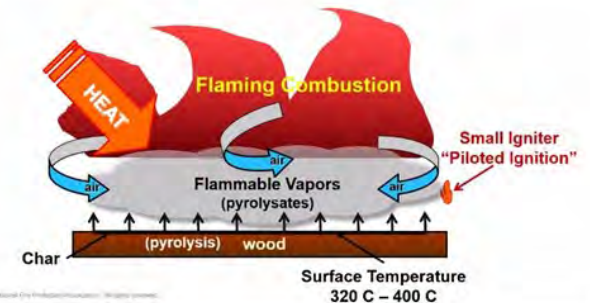
- Examine structures to identify and assess wildfire ignition vulnerabilities
- Develop recommendations for mitigating ignition vulnerabilities and reducing ignition potential during extreme wildfires

Module 6: Benefits of Ignition Resistant Structures

Upon completion of this module participants should be able to:

- Discuss benefits due to ignition resistant homes for fire protection, life safety, wildfire suppression costs, and proactive fire management

Piloted Wood Ignition to Flaming Combustion



11/16/2017 | 11/16/2017 | 11/16/2017 | 11/16/2017

122

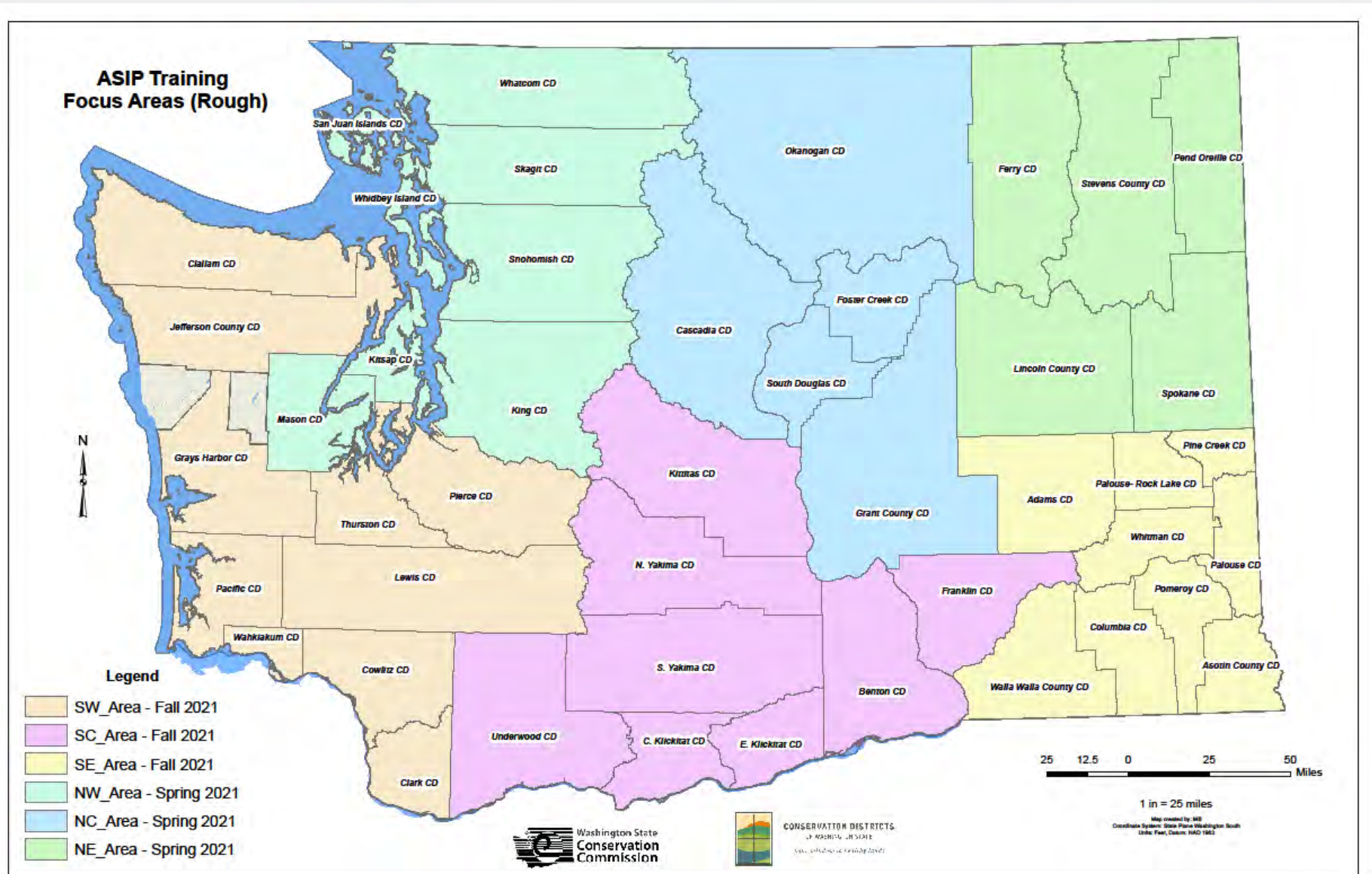
Let's Do A Walk-through

- Generally assess the surrounding fuels and topography within ½ mile of the HIZ that will produce the area's 'worst-case' wildfire exposure,
- Examine the conditions of the HIZ starting with the structure focus areas and progressing through the surrounding focus areas,
- Identify factors contributing to the structure ignition potential of the house during the determined 'worst-case' wildfire exposure,
- Create recommendations that mitigate the identified ignition factors.

11/16/2017 | 11/16/2017 | 11/16/2017 | 11/16/2017

348

Assessing Structure Ignition Potential from Wildfire (ASIP)



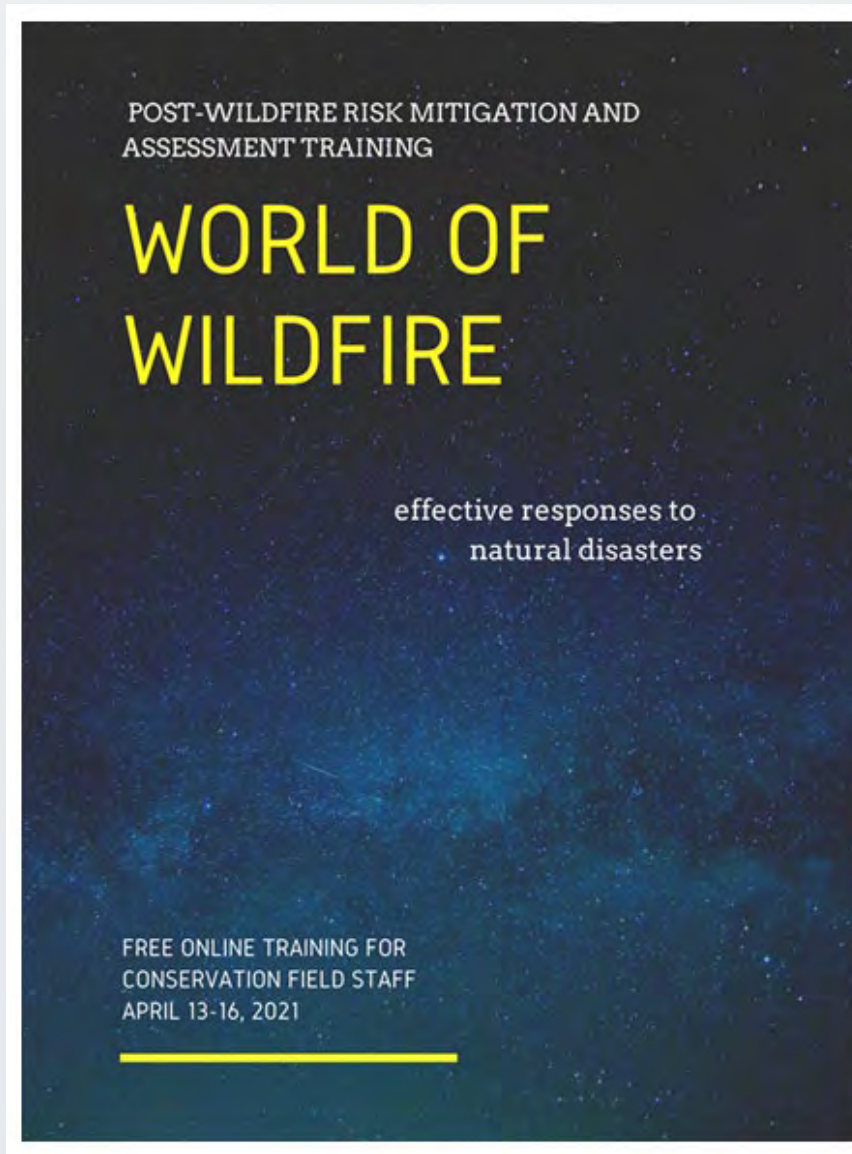
Assessing Structure Ignition Potential from Wildfire (ASIP)



Mike Baden, WS...

“World of Wildfire”

Post Fire Risk Mitigation and Assessment



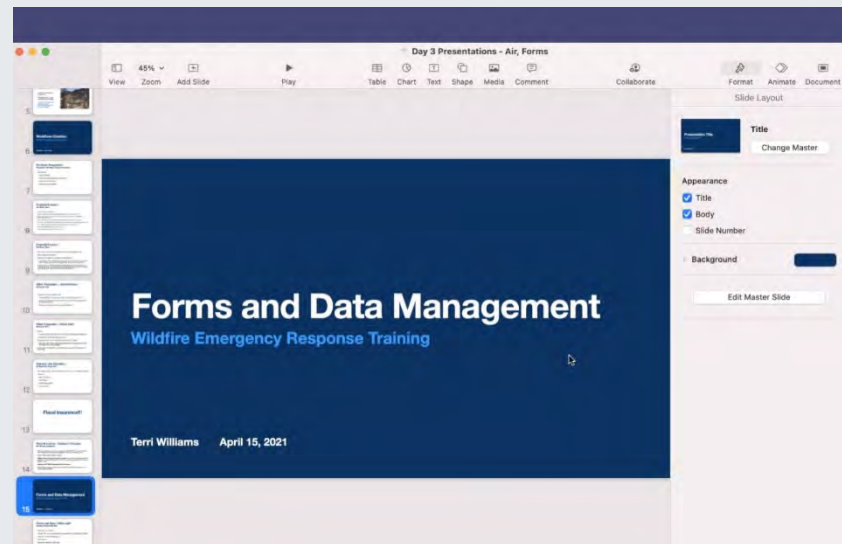
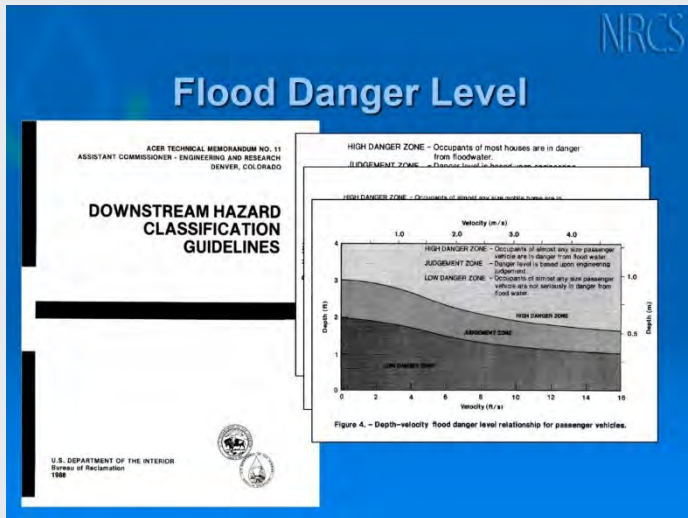
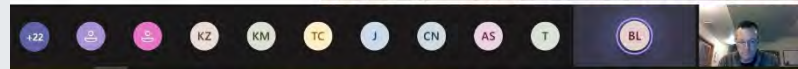
“World of Wildfire”

Post Fire Risk Mitigation and Assessment



Inventory Post Fire:

- Take with you:
- Maps, plan, aerial photo, plant id books, camera
- Take full SWAPAHE inventory!
- Pasture/range (prior ton/ac spp, stocking rate)
- Burn severity/landscape, soils
- Erosion
- Feed losses
- Crop losses (forage, fruit, forest)
- Livestock losses
- Weeds/seeding (have they?)
- Troughs/tanks (how many, where)
- Waterlines/spring developments, irrigation (type/ft)
- Fencing (type, ft/miles)



<https://www.wactd.org/training/ctd-training-library>

Outreach Strategies for Community Wildfire Preparedness and Recovery



Free, interactive workshop; Engage your audience and compel action through targeted communication.

Outreach Strategies for Community Wildfire Preparedness and Recovery

OUTREACH STRATEGIES FOR COMMUNITY WILDFIRE PREPAREDNESS AND RECOVERY



Val Vissia, Lincoln County Conservation District
Laura Johnson, WA State Conservation Commission



Laura Johnson



Val Vissia, Lin.

NEIGHBOR TO NEIGHBOR OUTREACH

November 4, 2018
Dear Neighbors on Juniper, Wildflower, Morningstar, Oak Hollow and Pinyon Lane—

We live our lives on the flanks of Hatzap Ridge. However, it is becoming increasingly unhealthy and increases the risk of it succumbing to a wildfire. In the past few years, we have developed small areas of back beetle die-off which now serve as little more than upright kindling. When I used Google Maps to survey the surrounding landscape, I could see that many of your forests are equally dense and have areas where back beetle has taken its toll. Whether you have a small claim for weekend getaway or live here year-round, I am sure that you want to preserve your place in the woods as much as we do. Certainly, our woods is in great need of thinning of small trees, removal of dead snags, and limbing-up of large ones. However, it costs upwards of \$1,200 - \$3,800 or more per acre to thin for wildfire protection. However, there is now an opportunity to have this work considered at no cost to all of us!

Perhaps a month or so ago, you may have received a large postcard in your mailbox that was just requesting your support of a political candidate. Instead, it provided a lot of information about "The 100 Acres Healthy Woods Challenge," a grant program that covers 100% of an owner's costs for fuel reduction efforts if a group of neighbors is willing to treat 100 acres of land. (There are other cost-sharing opportunities available for smaller projects.) I have spoken with Mr. Haggerty at the Lincoln County Conservation District and they are eager to work with us even if our final project doesn't quite fit the criteria outlined in the application. For example, they would consider covering 100% of a group of landowner's costs even if the properties were not 100% adjacent to each other. Their goal, really, is to get as much of the Hatzap Ridge area treated to make it as resistant to wildfire as possible.

On the backside of this letter is a privilege prepared by the Lincoln County Conservation District. I've also included the DRAFT application. Please feel free to contact Mr. Haggerty (509-436-1800 or bill.haggerty@lccdc.org) with questions. He would also be willing to set up meetings, including one in the Puyallup area if folks are interested, to discuss this grant program in further detail. Although I do not use it specifically called out in the application, I have mentioned that applications are due sometime before the first of the year. Thanks for your time and consideration of this project. Should you wish to contact me for any reason, please feel free to send an email Val.Vissia@lccdc.org.

Linette Wachholz
88 Pinyon Lane

19550 Wallingford Ave. N.
Shoreline, WA 98133

TELE:

TOOLS FOR ENGAGING LANDOWNERS EFFECTIVELY



Home Ignition Zone Assessments



Spokane Conservation District
509-535-7274
www.SCCD.org

Residential Wildfire Hazard Assessment Form

Landowner / Community Name:	Qtr-Qtr / Sec / Town / Range	Prevention Officer
Is this a reassessment? (circle) YES NO	Lat. / Long.	Date
Address	Waypoint ID	Resident Contact Made (circle) Yes No
Rams Compartment (circle) Cheney Methow Spokane Chewelah Mica BIA Colville BIA Mt. Spokane Tonasket Curlew LK Ninemile Other: Cusick Northport Omak Huckleberry Orville Kettle Springdale		

A. Means of Access		2. Defensible space		2. Setback from slopes >30%	
1. Ingress and egress		More than 100 ft.	1	More than 30 ft. to slope	1
Two or more roads in/out	0	More than 71 – 100 ft.	3	Less than 30 ft. to slope	5
One road in/out	7	30 – 70 ft.	10	Not applicable	0
2. Road width		Less than 30 ft.	25	G. Available Fire Protection	
Greater than 24 feet	0	C. Topography		1. Water source availability (on site)	
Between 20 and 24 feet	2	1. Slope		500 gpm pressurized hydrants < 1000 ft. apart.	
Less than 20 feet	4	Less than 9%		250 gpm pressurized hydrants < 1000 ft. apart.	
3. All-season road condition		Between 10 – 20%		More than 250 gpm non-pressurized, 2 hrs	
Surfaced, grade <5%	0	Between 21 – 30%		Less than 250 gpm non-pressurized, 2 hrs	
Surfaced, grade >5%	2	Between 31 – 40%		No hydrants available	
Non-surfaced, grade < 5%	2	Greater than 41%		10	
Non-surfaced, grade > 5%	5	D. Additional Rating Factors		2. Organized response resources	
Other than all-season	7	1. Topography that adversely affects wildland fire behavior		Station within 5 miles of structure	
4. Fire service access		2. Area with history of higher fire occurrence		Station greater than 5 miles	
<= 300 ft, with turnaround	0	3. Areas of unusually severe fire weather and wind		3. Fixed fire protection	
>= 300 ft, with turnaround	2	4. Separation of adjacent structures		Sprinkler system (NFPA 13, 13R, 13D)	
<= 300 ft, no turnaround	4	E. Roofing Material		None	
>= 300 ft, no turnaround	5	1. Construction material		H. Utilities (Gas and Electric)	
5. Street signs		Class A roof		All underground utilities	
Present (4 in. in size and reflective)	0	Class B roof		One underground, one aboveground	
Not present	5	Class C roof		All aboveground	
B. Vegetation (Fuel Models)		Non-rated		5	
1. Predominant vegetation		F. Existing Building Construction		Column 3 Total:	
Light	5	1. Materials		Total Score	
Medium	10	Noncombustible siding/deck			
Heavy	20	Noncombustible siding/wood deck		Risk Rating	
Slash	25	Combustible siding and deck			
Column 1 Total:		Column 2 Total:			

Low Hazard: <39 Points; Moderate Hazard: 40 – 69 Points; High Hazard: 70 – 112 Points; Extreme Hazard ≥113 Points

NOTES:

Column 1	
Column 2	
Column 3	
Total	

- 16 counties designated for funds – 2018
- Target of 10 assessments per county
- Focus is to “practice what you learned” from the ASIP trainings



Thank you!

Contact:

Mike Baden

mbaden@scc.wa.gov

509-385-7510



Washington State
Conservation Commission