



# Wildfire Ready

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

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](mailto: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

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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

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# 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:

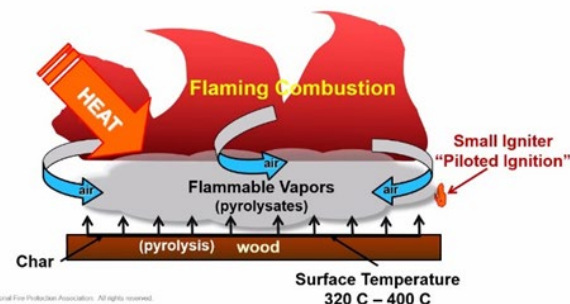
- Examine structures to identify and assess wildfire ignition vulnerabilities
- Develop recommendations for mitigating ignition vulnerabilities and reducing ignition potential during extreme wildfires

## 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



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.

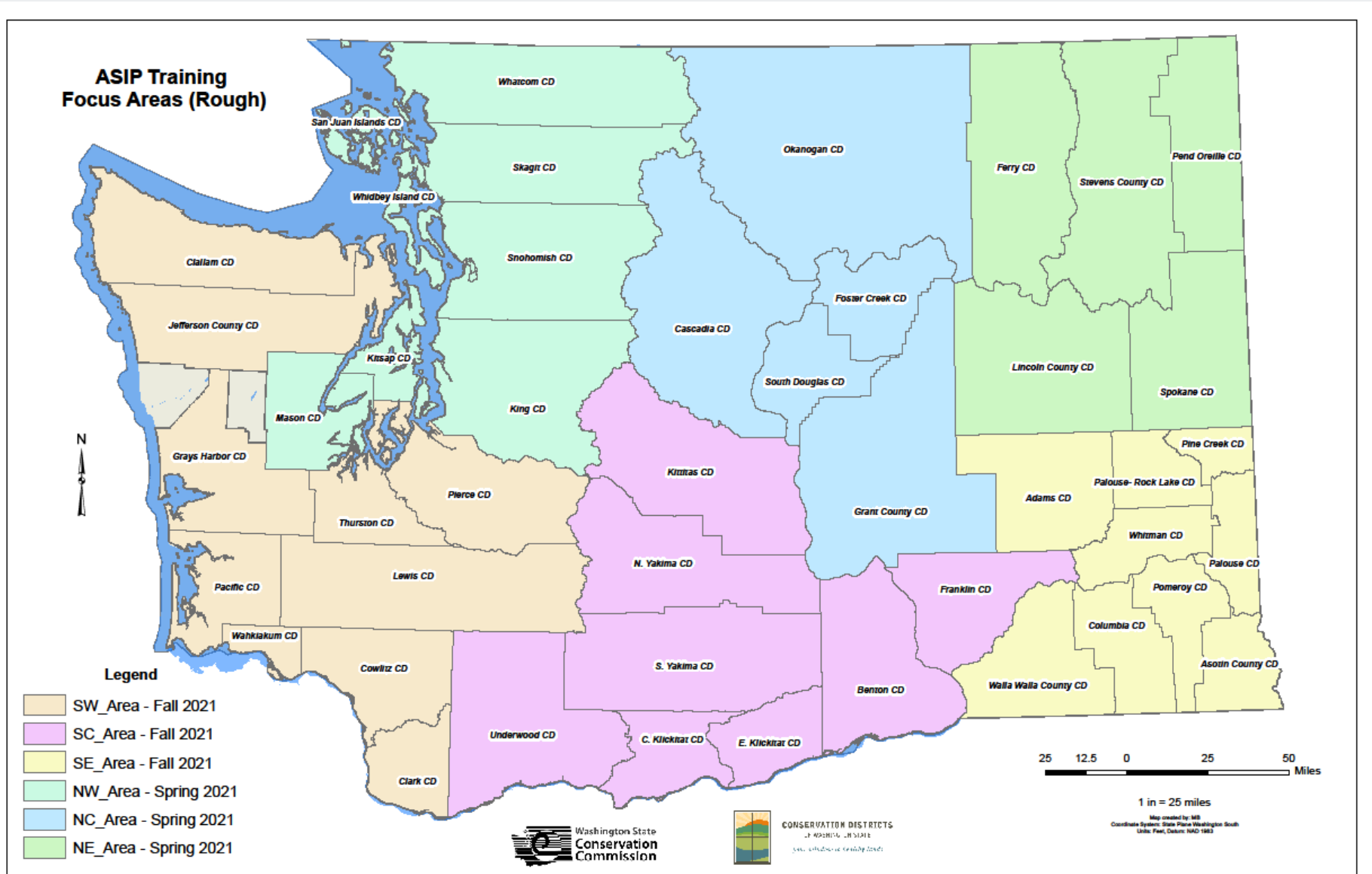
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348



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# Assessing Structure Ignition Potential from Wildfire (ASIP)



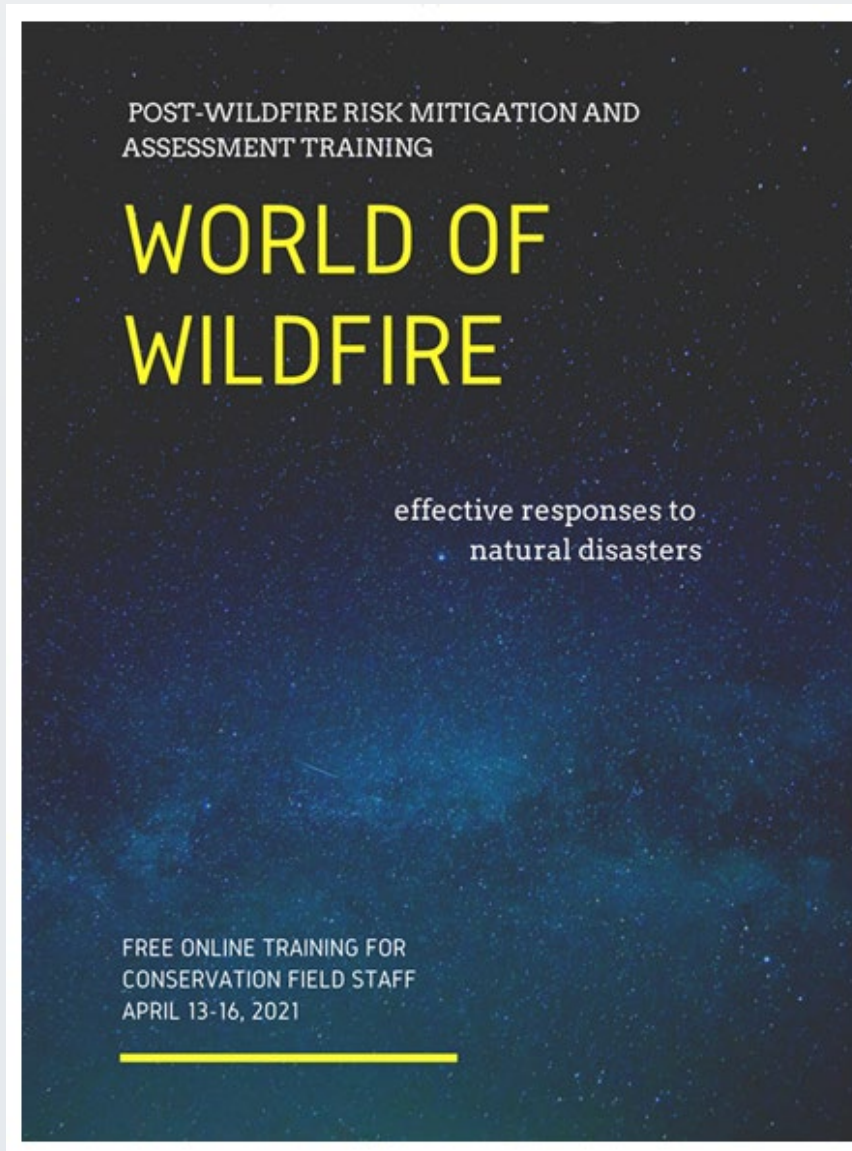
# Assessing Structure Ignition Potential from Wildfire (ASIP)



Mike Baden, WS...

# “World of Wildfire”

## *Post Fire Risk Mitigation and Assessment*



POST-WILDFIRE RISK MITIGATION AND  
ASSESSMENT TRAINING

# WORLD OF WILDFIRE

effective responses to  
natural disasters

FREE ONLINE TRAINING FOR  
CONSERVATION FIELD STAFF  
APRIL 13-16, 2021

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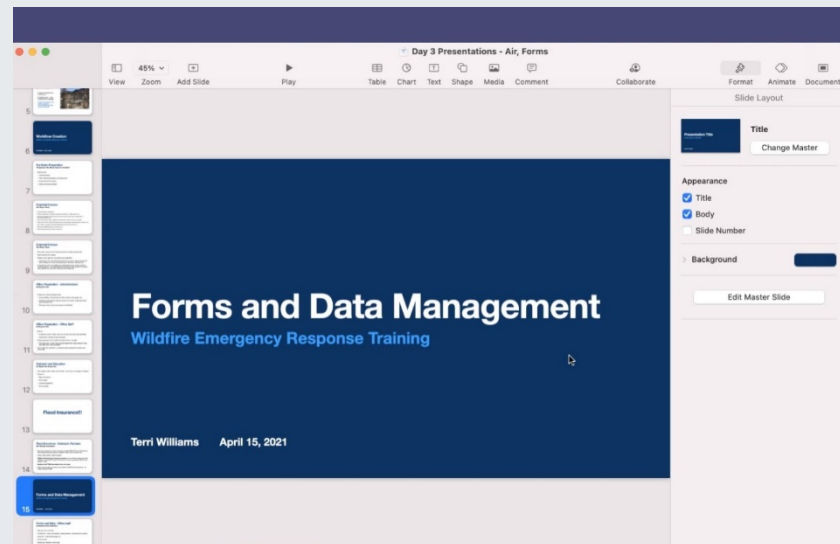
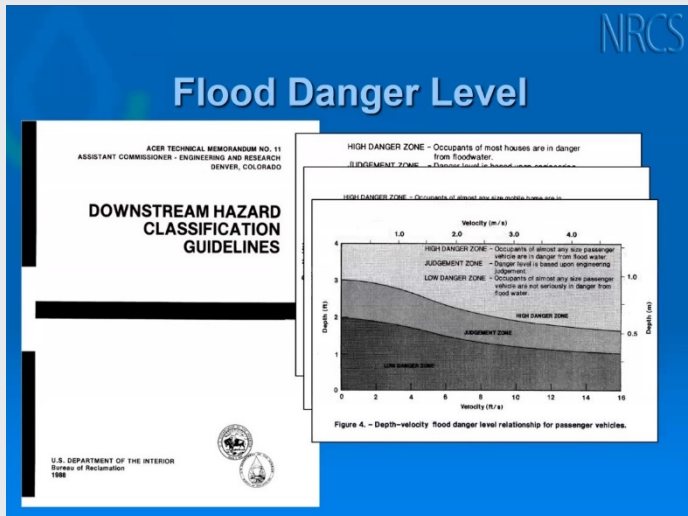
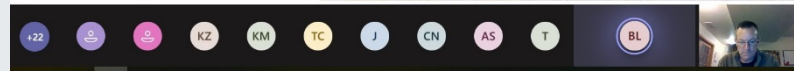
# “World of Wildfire”

## 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



Washington State  
Conservation Commission



**YOU'RE INVITED**



**OUTREACH STRATEGIES  
FOR COMMUNITY  
WILDFIRE  
PREPAREDNESS  
AND RECOVERY**

**APRIL 8TH-9TH  
8AM-NOON**

**VIRTUAL WORKSHOP ON ZOOM**

*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

### TELE:

## TOOLS FOR ENGAGING LANDOWNERS EFFECTIVELY



November 4, 2018

Dear Neighbors on Juneberry, Wildflower, Morningstar, Owl Hollow and Pingrey Lanes –

We love our woods on the flanks of Natsopoc Ridge. However, it is becoming increasingly unhealthy and increases the risk of it succumbing to a wildfire. In the past two years, we have developed small areas of bark 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 an area where bark beetle has taken its toll. Whether, you have a small cabin for weekend getaways 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 are in great need of thinning of small trees, removal of dead ones, and limbing-up of large ones. However, it costs upwards of \$1200 - \$1800 or more per acre to thin for wildfire protection. However, there is now an opportunity to have this work completed 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 ~~not~~ requesting your support of a political candidate. Instead, it provided a bit of information about "The 100 Acre 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 Patrick Haggerty at Cascadia 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 Natsopoc Ridge area treated to make it as resistant to wildfire as possible.

On the backside of this letter is a one-pager prepared by the Cascadia Conservation District. I've also included the DRAFT application. Please feel free to contact Mr. Haggerty (509-436-1601 or [PatrickH@CascadiaCO.org](mailto:PatrickH@CascadiaCO.org)) with questions. He would also be willing to set up meetings, including one in the Puget Sound area if folks are interested, to discuss this grant program in further detail. Although I do not see it specifically called out in the application, I believe he 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 ([mwaaholby@hotmail.com](mailto:mwaaholby@hotmail.com)).

Sincerely,

Lynette Wachholz  
69 Pingrey Lane

19530 Wallingford Ave. N.  
Shoreline, WA 98135



# 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 BIA	Chewelah Mica BIA	Colville BIA Mt. Spokane Tonasket
Curlew LK Ninemile Other:	Cusick Northport	Huckleberry Omak
	Kettle Orville	Lincoln Springdale

<b>A. Means of Access</b>		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	<b>G. Available Fire Protection</b>	
Greater than 24 feet	0	<b>C. Topography</b>		1. Water source availability (on site)	
Between 20 and 24 feet	2	1. Slope		500 gpm pressurized hydrants < 1000 ft apart.	0
Less than 20 feet	4	Less than 9%	1	250 gpm pressurized hydrants < 1000 ft. apart	1
3. All-season road condition		Between 10 – 20%	4	More than 250 gpm non-pressurized, 2 hrs	3
Surfaced, grade <5%	0	Between 21 – 30%	7	Less than 250 gpm non-pressurized, 2 hrs	5
Surfaced, grade >5%	2	Between 31 – 40%	8	No hydrants available	10
Non-surfaced, grade < 5%	2	Greater than 41%	10	2. Organized response resources	
Non-surfaced, grade > 5%	5	<b>D. Additional Rating Factors</b>		Station within 5 miles of structure	1
Other than all-season	7	1. Topography that adversely affects wildland fire behavior	0-5	Station greater than 5 miles	3
4. Fire service access		2. Area with history of higher fire occurrence	0-5	3. Fixed fire protection	
<= 300 ft, with turnaround	0	3. Areas of unusually severe fire weather and wind	0-5	Sprinkler system (NFPA 13, 13R, 13D)	0
>= 300 ft, with turnaround	2	4. Separation of adjacent structures	0-5	None	5
<= 300 ft, no turnaround	4	<b>E. Roofing Material</b>		<b>H. Utilities (Gas and Electric)</b>	
>= 300 ft, no turnaround	5	1. Construction material		All underground utilities	0
5. Street signs		Class A roof	0	One underground, one aboveground	3
Present (4 in. in size and reflective)	0	Class B roof	3	All aboveground	5
Not present	5	Class C roof	15	Column 3 Total:	
<b>B. Vegetation (Fuel Models)</b>		Non-rated	25	<b>Total Score</b>	
1. Predominant vegetation		<b>F. Existing Building Construction</b>		<b>Risk Rating</b>	
Light	5	1. Materials			
Medium	10	Noncombustible siding/deck	0		
Heavy	20	Noncombustible siding/wood deck	5		
Slash	25	Combustible siding and deck	10		
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

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509-385-7510



Washington State  
**Conservation Commission**