

Why People Use Portals

Shared Stewardship

Accomplishment Reporting

Why People Use Portals

1. Engage the Public

2. Support Natural Resource Professionals

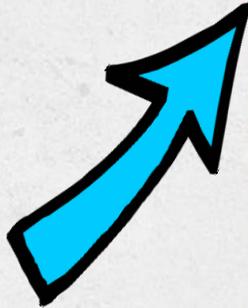
3. Prioritize Work



NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

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APPLICATIONS

[Public Viewer](#)[Professional Viewer](#)



HOME

ASSESS YOUR LOCATION

MAP THEMES

Enter address or coordinates

ASSESS YOUR LOCATION

Pan the map to view the likelihood a location may be impacted by wildfire

LOW THREAT

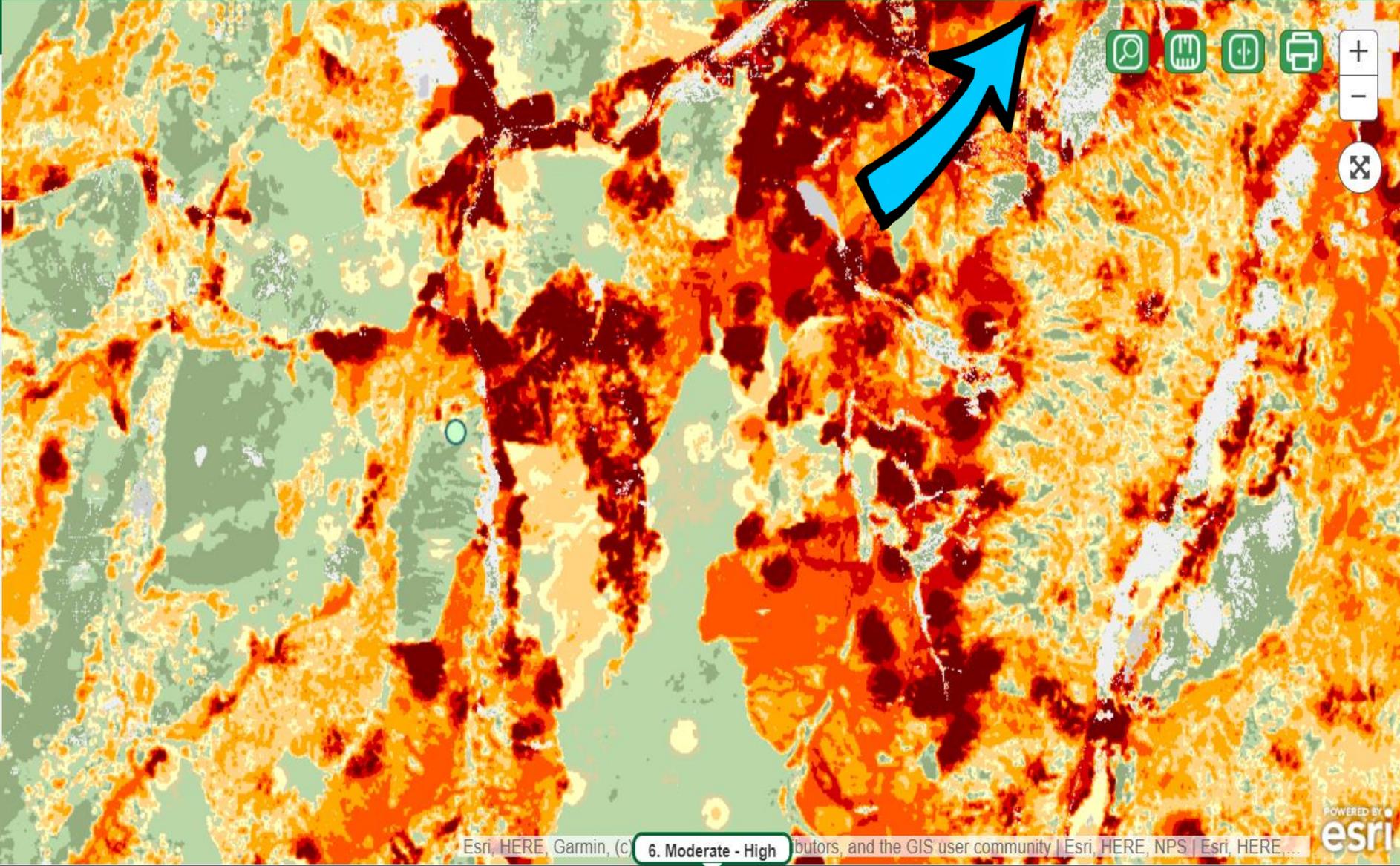
LOW INTENSITY

40.5102° N 116.1626° W

GENERATE REPORT

Wildfire Threat
Wildfire Threat is a measure of the likelihood of a fire starting and spreading to a location. Collectively, areas with Low Wildfire Threat (Levels Very Very Low, Very Low and Low Levels) are defined to support decision-making and occupy about 70% of the state.

Fire Intensity
Flame length is directly related to Fire Intensity and is commonly used as a direct visual indication of Fire Intensity. The Fire Intensity displayed is the average of non-zero Fire Intensity values for the area inside of the circle shown which has a radius of 790 feet. This Fire Intensity Level has length flames that range from 2 to 4 feet long. Expect a low amount of short range spotting. Fires are typically easy to be attacked by firefighters working on the flanks and head of the fire using hand tools



10km
6mi



Assessment Report for Your

My Home Report

Introduction

Welcome to the Utah Wildfire Risk Assessment Portal (UtWRAP). The Internet portal is a component of the Utah Wildfire Risk Assessment Report provides two key pieces of information for the location: Wildfire Threat and the Characteristic (Expected) Fire Intensity.

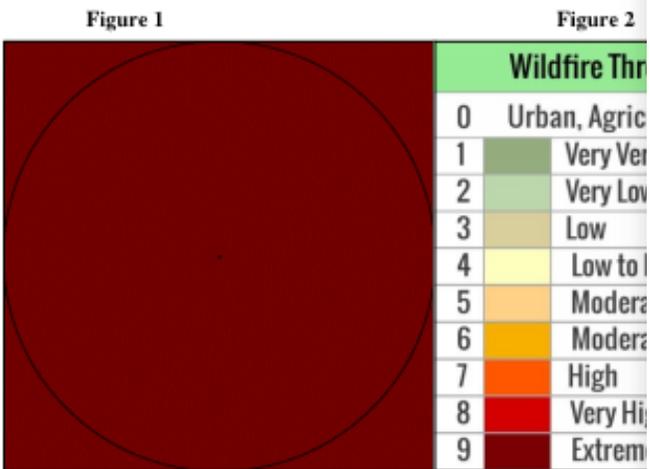
Location

The information in this Assessment Report, My Home Report, is for approximately 45 acres in size centered at your location with coordinates 39.393587304752° N -111.652980679268° W.

Wildfire Threat

Wildfire Threat is a measure of the likelihood of a fire starting. The Wildfire Threat Level map in Figure 1 is centered at your location. The Wildfire Threat Levels shown in Figure 1 are based on the nine categories for the Wildfire Threat legend shown on the left side of Figure 2.

The Assess Group Wildfire Threat for your location is High. High Wildfire Threat (High, Very High, Extreme Levels) are defined as occupying about 8.0% of the state. High Wildfire Threat is approximately 53 times greater than Moderate Wildfire Threat and 53 times greater than Low Wildfire Threat.



Expected Fire Intensity

Flame length (Figure 3) is directly related to Fire Intensity and is commonly used as a direct visual indication of Fire Intensity. The Intensity displayed is the average of all non-zero Fire Intensity values for the area inside of the circle with a radius of 790 feet and shown in Figure 4. The Expected Fire Intensity Level at your location is expressed as a Flame Length Level (Figure 5) with fire intensity levels that are between 12 and 20 feet long in length (Figures 4 and 5). Trees with low branches can be expected to torch with fire extending the canopy of stands. Expect short-range spotting to be very common with medium to long range spotting possible up to one-mile. Direct attack by firefighters, engines, aircraft and dozers is generally ineffective but indirect attack may be effective. It will be difficult for firefighters to work near structures unless adequate defensible space has been created (Table 1). The colors in the map shown in Figure 4 are based on the seven categories for the Flame Length Level map with the legend on the left side of Figure 5.

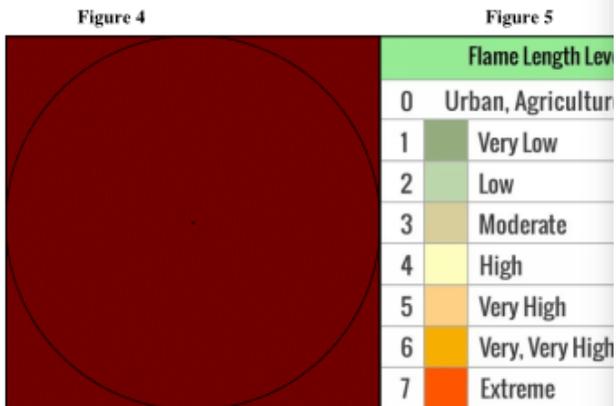


Table 1 - Interpretation of Flame Length

Flame Length	Effects and Limitations
0-3.9 ft.	People can work near the flames. Create a Lean, Clean and Green Zone for an additional 70 feet from structures.
4-7.9 ft.	Fires are too intense to work at the front of the flames. Fire suppression efforts are difficult. Fire embers travel. Create a Reduced Fuel Zone for an additional 70 feet.
8-11.9 ft.	Due to the fire intensity, tree torching and spotting are likely. Create a Reduced Fuel Zone for an additional 70 feet.
12+ ft.	Major fire movement likely with tree crowning and spotting. Create a Reduced Fuel Zone for an additional 70 feet.

Precautions and Preparations

Basic preparedness measures will better protect your home and property. This is an important consideration in a scenario where sufficient firefighting resources are not available to protect your home or property. Be alert to the potential occurrence of wildfire. Embers from a wildfire can travel to your location and land on flammable landscape areas or enter openings on the exterior of the house. Take the necessary steps to protect your home and property today.

Home owners are encouraged to create at least a Defensible Space Zone around homes and structures (Figure 6). This Defensible Space Zone allows for reduced fire intensity near homes and structures allowing firefighters to safely implement fire protection measures by your home and structures. Firefighters can implement fire protection measures only if their personal safety can be assured.

Your Goal

Create a Defensible Space Zone.

Near Area 1: Lean, Clean and Green Zone

Create this area for a distance of immediately surrounding your home and structures (Figure 6). Remove all flammable vegetation and any dead or dying plants within of each building or structure. It is acceptable to keep single trees or other vegetation that are trimmed of all dead and dying foliage and are well pruned and maintained.

Mid Area 2: Reduced Fuel Zone

For an additional or at least to your property line, create a Reduction Fuel Zone (Figure 6). Remove loose surface litter so it does not exceed a depth of three inches. Surface litter consists of fallen leaves, needles, twigs, bark, cones, pods, small branches, etc. All logs and stumps should be removed unless they are embedded in the soil. If embedded log is kept, remove nearby vegetation.

Ideally, grass should not exceed four inches in height. Take care to stabilize soil in which case grasses and forbs may reach a height of .

Clear shrubs so that fire can not spread from one shrub to another.

A standing dead tree (snag) may be kept for wildlife purposes providing there is only one snag per acre. Make sure that if a snag were to fall that it would not reach buildings or structures.

Low branches create "ladders" that can carry fire from the ground fuels to the trees. Prune tree limbs so that the vertical distance from the top of the ground vegetation (grasses and shrub) to the lowest tree limb is three times the height of the ground vegetation.

Figure 6



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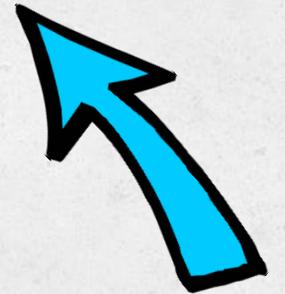
3. Prioritize Work



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NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

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ASSESS YOUR LOCATION

AREAS OF INTEREST

MAP THEMES

Enter address or coordinates



ASSESS YOUR LOCATION

Pan the map to view the likelihood a location may be impacted by wildfire

LOW THREAT

LOW INTENSITY

38.8563° N 118.0303° W

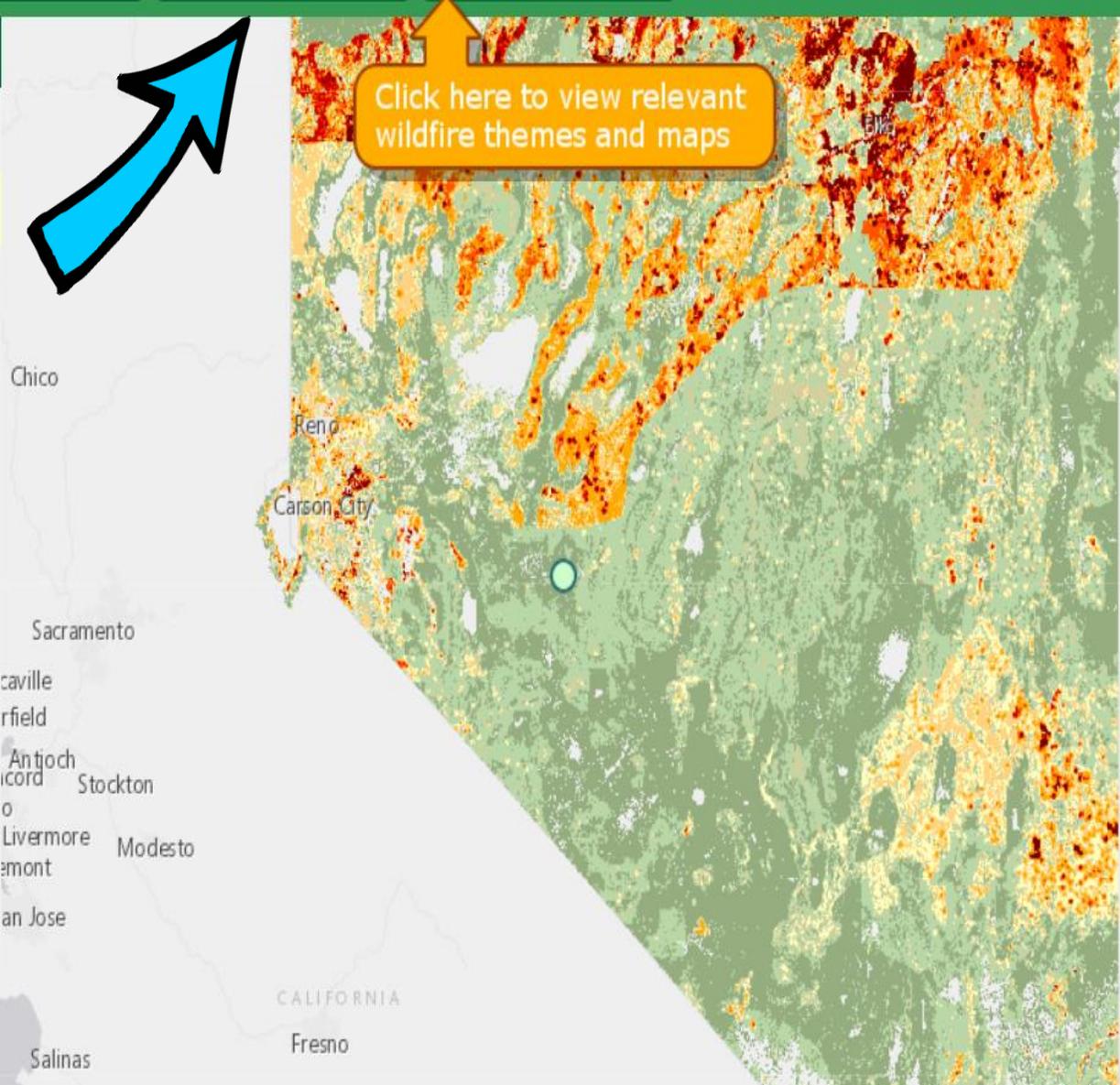
GENERATE REPORT

Wildfire Threat

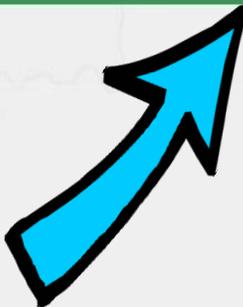
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Fire Intensity

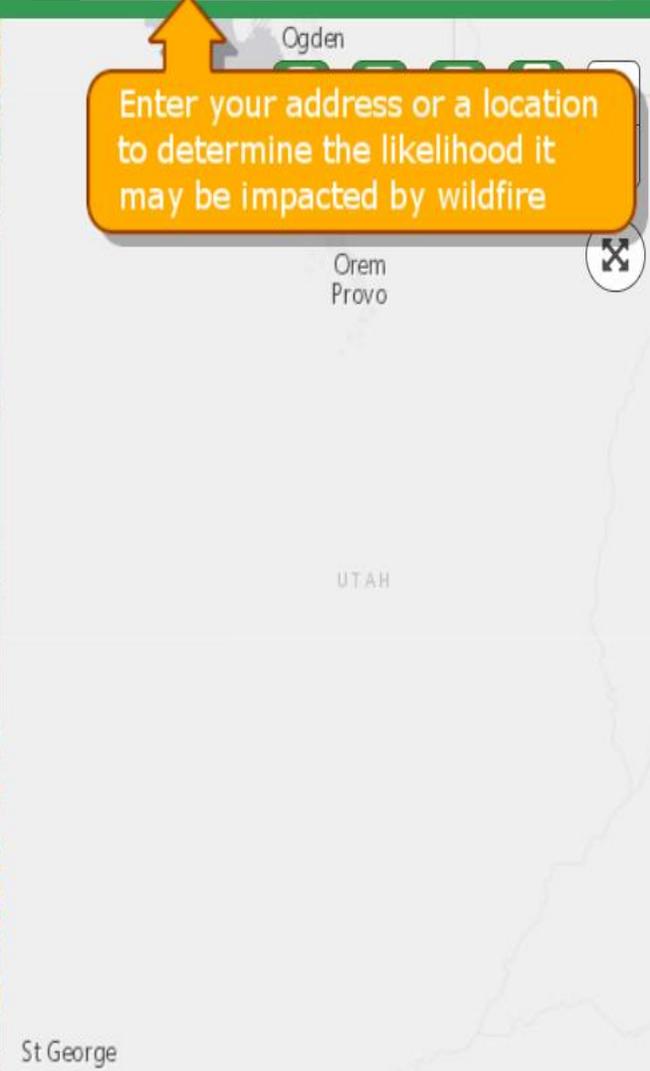
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Click here to view relevant wildfire themes and maps



Enter your address or a location to determine the likelihood it may be impacted by wildfire





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

HOME

ASSESS YOUR LOCATION

AREAS OF INTEREST

MAP THEMES

Enter address or coordinates

CREATE NEW

UPLOAD SHAPE

Area of Interest

Dixie Valley

Area of Interest Boundary

Reference layer geometry:

HUC12 Wat

Draw custom shape:

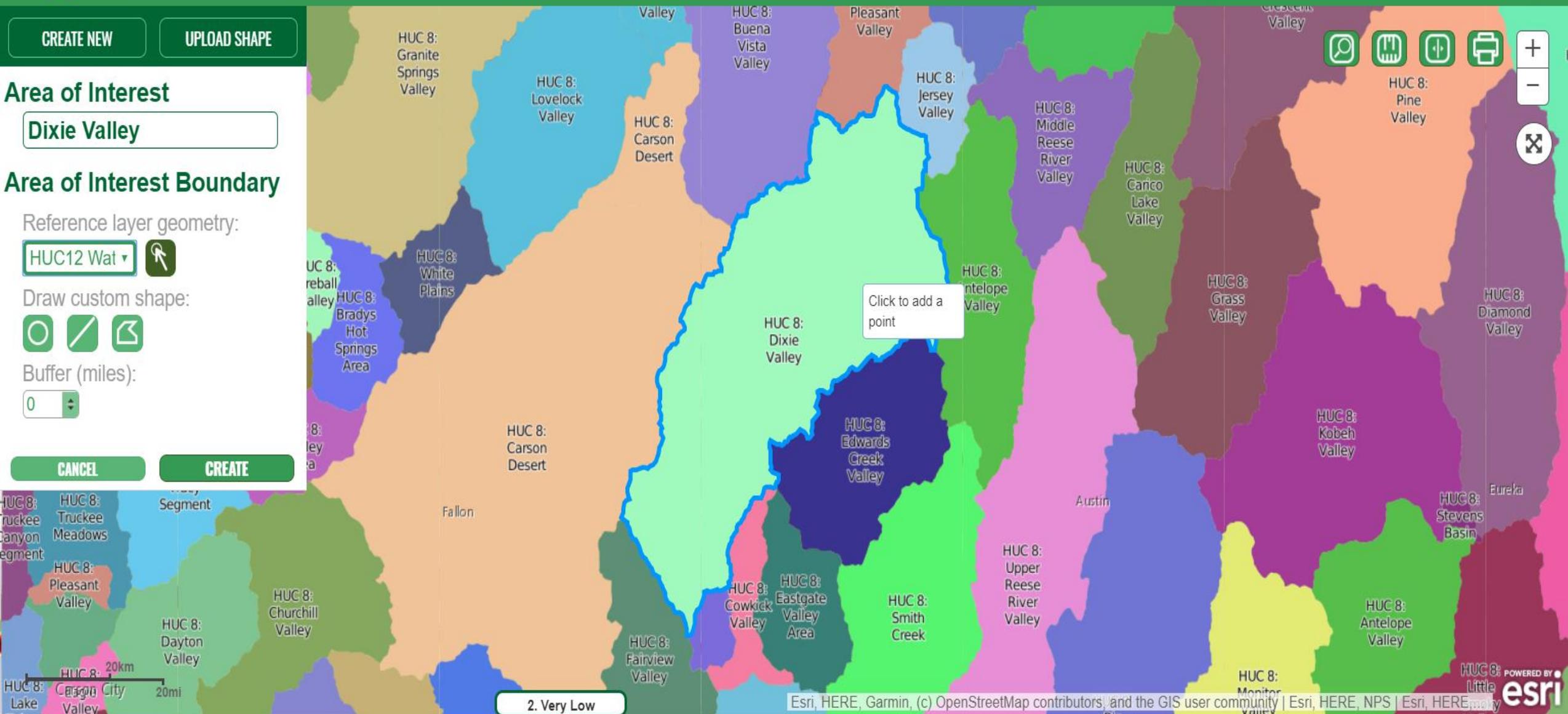


Buffer (miles):

0

CANCEL

CREATE



Click to add a point

2. Very Low

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community | Esri, HERE, NPS | Esri, HERE, NPS





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

HOME

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AREAS OF INTEREST

MAP THEMES

Enter address or coordinates

CREATE NEW

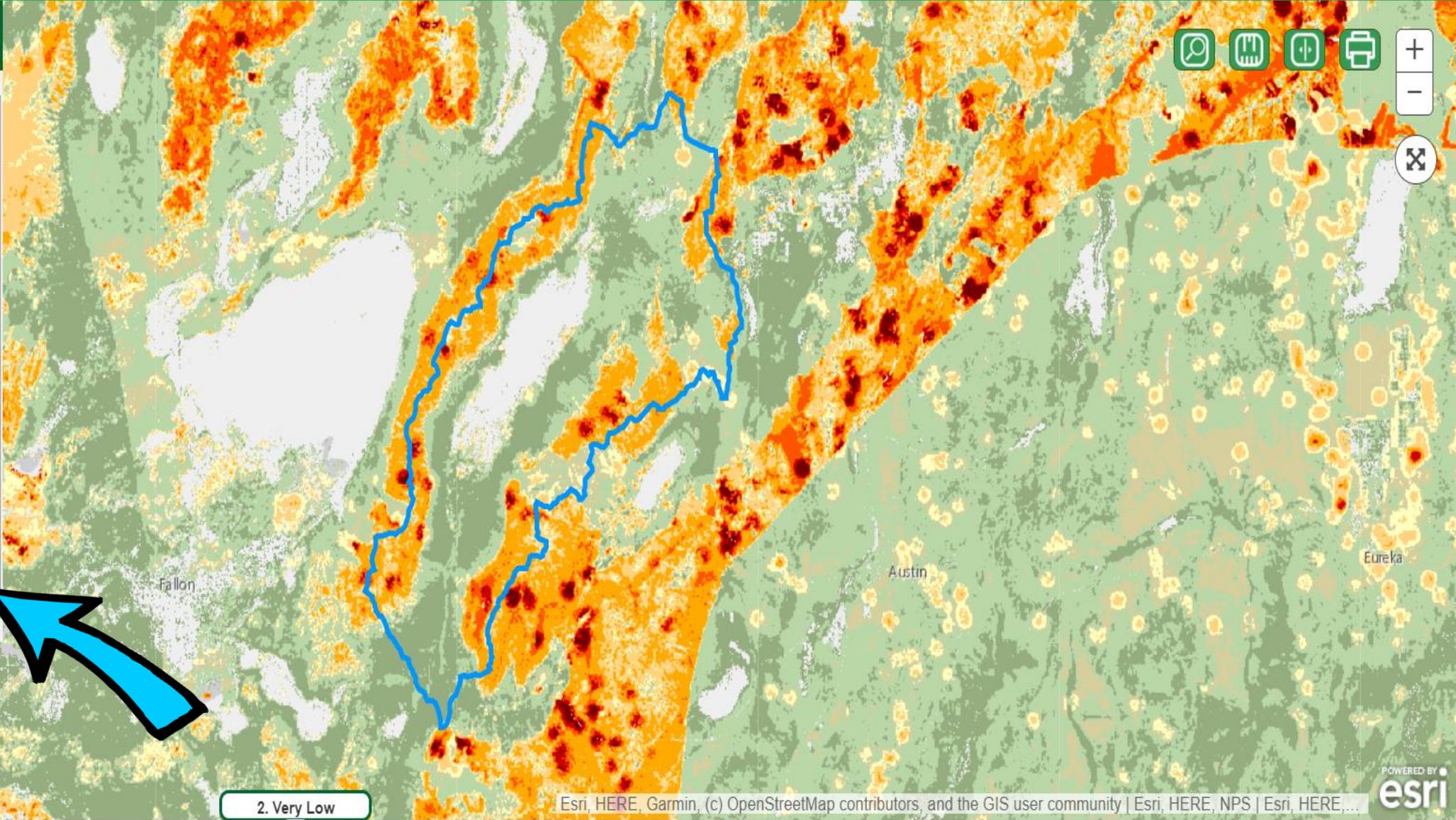
UPLOAD SHAPE

#9	test	0.786mi ²	03-13-17
#125	Priority Watershed 32	212.380mi ²	05-02-17
#128	FL	0.786mi ²	03-07-18
#129	FL 1	0.786mi ²	03-08-18
#130	myone	1.448mi ²	04-09-19
#131	Dixie Valley	1,307.622mi ²	07-25-19

yoonsik.chung@timmons.com

GENERATE SUMMARY REPORT

EXPORT DATA



2. Very Low

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Wildfire Threat





Wildland Development Area (WUI) Impacts

Description

The Wildland Development Area (WUI) Impacts layer is a rating of the potential impact of a wildfire on people and their property. The key input is housing density (houses per acre) consistent with Federal Register National standards for this topic. The location of people living in the Wildland Development Areas is essential for defining potential wildfire impacts to people and property.

The Wildland Development Area Impact for an area is derived using a Response Function modeling approach. Response Functions are a method of assigning a net change in the value to a resource or asset based on susceptibility to fire at different fire intensity levels as measured by fire behavior parameters such as flame length.

To calculate the Wildland Development Area Impact Response Function Score, the Wildland Development Area housing density data was combined with flame length data and Response Functions assignments to represent potential impacts. The Response Function Score for a combination of Wildland Development Area category and flame length category were defined by a team of subject matter experts. By using flame length and Wildland Development Area housing density data, it is possible to determine where the greatest potential impact to property and people is likely to occur.

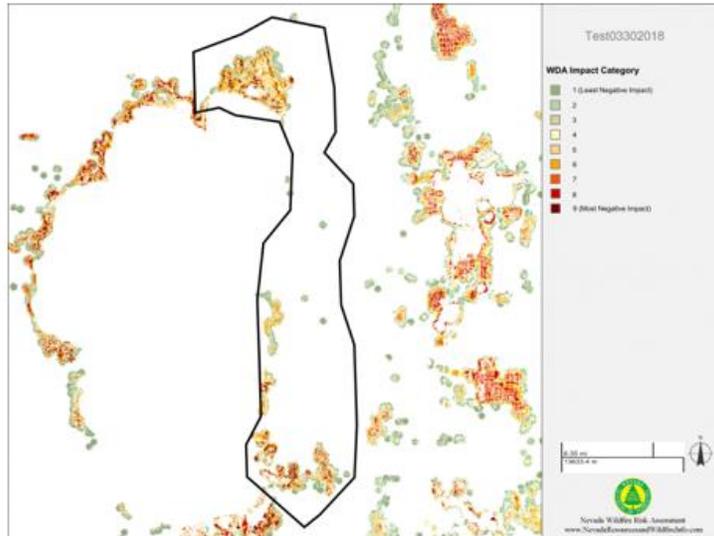
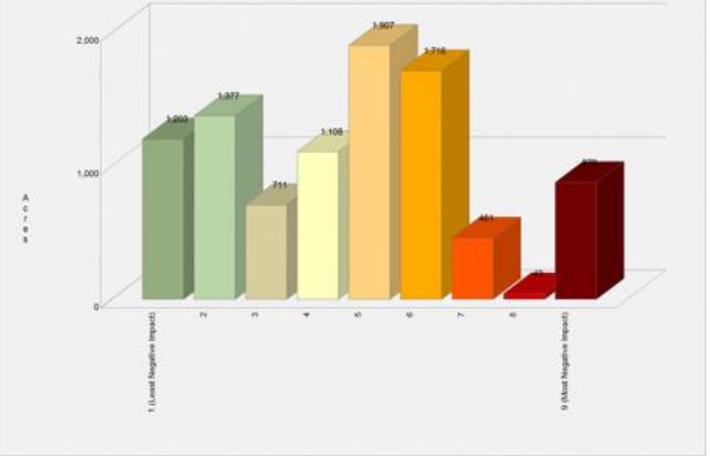
The Response Function Scores range from 1 to 9. The category 1 represents the least impact and 9 representing the most impact. For example, areas with high housing density and high flame lengths would have a category closer to 9. Areas with low housing density and low flame lengths would have a category closer to 1.

The Wildland Development Area Impact Categories were defined by the categorization of the Response Function Scores into nine Categories ranging from 1 to 9.

The Wildland Development Area Impact has been calculated consistently for all areas in Nevada, which allows for comparison and ordination of areas across the entire state. Data is modeled at a 30-meter cell resolution, which is consistent with other Nevada NRRFP layers.

WDA Impact Category	Acres	Percent
1 (Least Negative Impact)	1,203	12.5 %
2	1,377	14.6 %
3	711	7.6 %
4	1,108	11.8 %
5	1,907	20.3 %
6	1,716	18.2 %
7	481	4.9 %
8	43	0.5 %
9 (Most Negative Impact)	878	9.3 %
Total	9,454	100.0 %

Test03302018
Acres by Wildland Development Area (WDA) Impact Category



Wildfire Risk

Description

Wildfire Risk represents the possibility of loss or harm occurring from a wildfire and is displayed in the Nevada NRRFP by the Wildfire Risk Index. It is a primary output of the Nevada Wildfire Risk Assessment (Nevada NRRFP). Wildfire Risk combines the likelihood of a fire occurring (Threat), with those areas of most concern that are adversely impacted by fire (Fire Effects), to derive a single overall measure called the Wildfire Risk Index. It identifies areas with the greatest potential impacts from a wildfire considering the likelihood of an area burning and the impacts to values and assets aggregated together. Since all areas in Nevada have the Wildfire Risk Index calculated consistently, it allows for comparison and ordination of areas across the entire state.

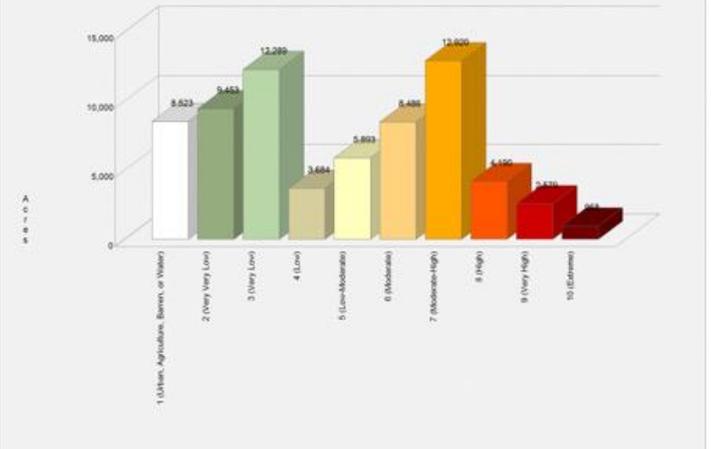
Fire Threat is a measure that has been calculated which is closely related to the likelihood of an area burning. It is mapped as the Fire Threat Index in the Nevada NRRFP.

Fire Effects are comprised of two inputs: Value Impacts and Suppression Difficulty. The Fire Effects Index identifies those areas that have important values that could be adversely impacted by a wildfire and also might be in areas where fire suppression activities are difficult. The Values Impacted defined in the Nevada NRRFP include Wildland Development Areas (WUI), Forest Assets, Riparian Assets, Drinking Water Importance Areas (watersheds) and Infrastructure Assets. Refer to the Nevada Values Impacted description for more information about these values.

To aid in the use of Wildfire Risk for planning activities, the output values are categorized into nine (9) categories. These are given general descriptions from Lowest to Highest Risk.

Wildfire Risk Category	Acres	Percent
1 (Urban, Agriculture, Barren, or Water)	8,823	12.4 %
2 (Very Very Low)	9,453	13.7 %
3 (Very Low)	12,289	17.8 %
4 (Low)	3,684	5.3 %
5 (Low-Moderate)	5,893	8.5 %
6 (Moderate)	8,486	12.3 %
7 (Moderate-High)	12,920	18.7 %
8 (High)	4,190	6.1 %
9 (Very High)	2,579	3.7 %
10 (Extreme)	988	1.4 %
Total	88,285	100.0 %

Test03302018
Acres by Wildfire Risk Category





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

HOME

ASSESS YOUR LOCATION

AREAS OF INTEREST

MAP THEMES

Enter address or coordinates

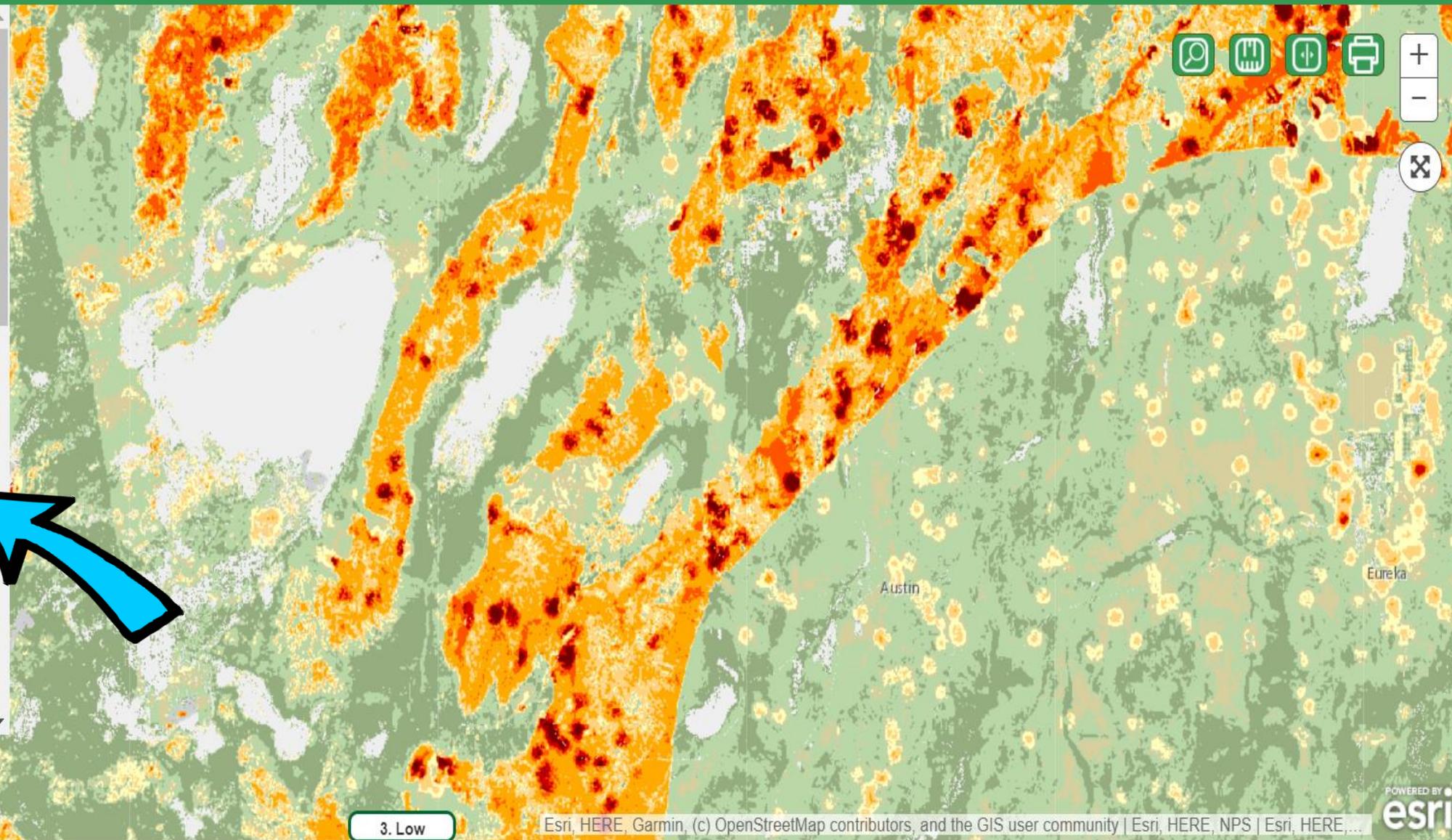


LAYERS

- Wildfire
- Wildfire Risk
- Wildfire Threat
- Wildfire Effects
- Suppression Difficulty
- Value Impacts
- Landscape Characteristics
- Wildfire Behavior
- Historical Fire Occurrence
- Boundaries

BASEMAPS

- Light Gray Map
- Aerial
- Streets
- USGS Topographic
- ESRI Topographic



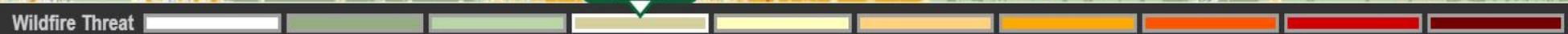
Eureka

Austin



3. Low

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APPLICATIONS

[Public Viewer](#)[Professional V](#)

- Edit Account Details
- Manage Users
- Manage AOI Summary Reports
- Focus Area Manager
- Sign Out





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

HOME

MAP THEMES

DASHBOARD

CREATE FOCUS AREA

Enter address or coordinates

- LAYERS
- NDF Regions
- Place Names (2010 GNIS Place Names)
- Priority Landscapes
- Public Land Survey (PLSS)
- USFS Grazing Allotments
- USFS Administrative Forests
- USFS Ranger Districts
- NDOW Hunt Units
- Fire
- Projects
- Public Facilities
- Vegetation & Soils
- Water
- HUC8 & HUC12 Watersheds
- Impaired Waters
- Springs

CHANGE SCORE LAYER: Wildfire Threat BUFFER: 0

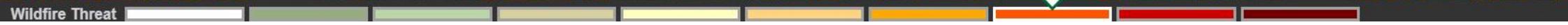
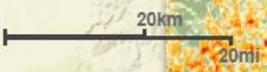
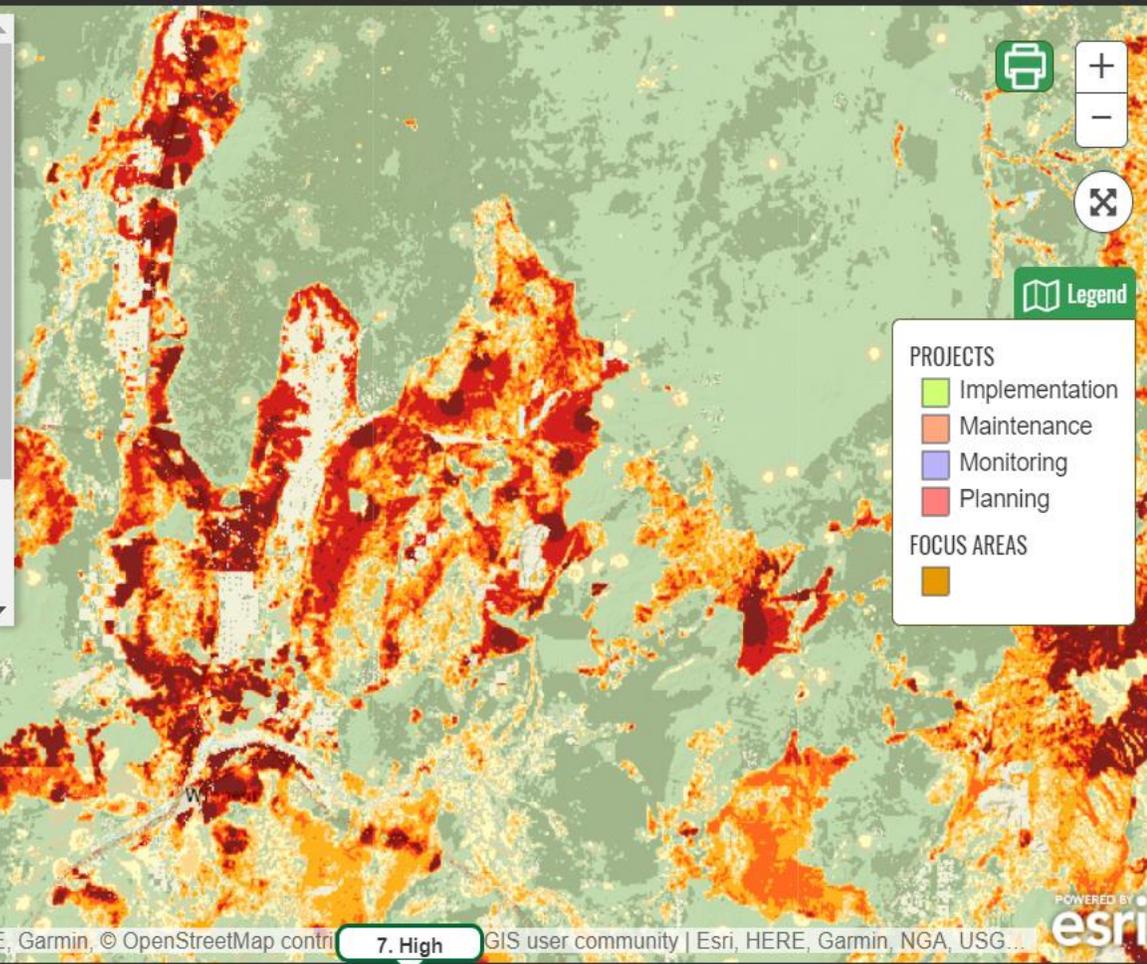
Creating Focus Area [CANCEL]

Name: ✓

Region: ✓

CWPP: ✓ Fund Source: *

[DIGITIZE] [UPLOAD] [LAYERS]





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

HOME

MAP THEMES

DASHBOARD

Enter address or coordinates

LAYERS

- NDF Regions
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- Water
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- Impaired Waters
- Springs

Creating Focus Area

Name: ✓

Region: ✓

CWPP: ✓

- Funding Source
- BLM Nevada Forestry Program
 - BLM SNPLMA
 - Cohesive Strategy Support
 - Community Forests and Open Spaces Program
 - CPG - Conservation Education
 - CPG - Forest Health
 - CPG - Misc.
 - CPG - Stewardship
 - CPG - Urban Forestry
 - Firewise
 - Forest Legacy Program
 - Hazardous Fuels
 - Landowner Matching Funds/Volunteer Time
 - Landscape Scale Restoration
 - NDEP
 - SFA - Title II
 - SFA - Title IV
 - USFWS
 - VFA - Title II

DIGITIZE UPLOAD LAYERS

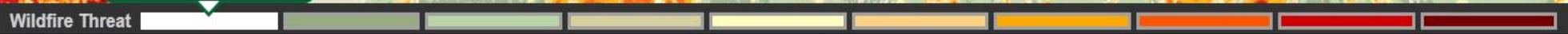
PROJECTS

- Implementation
- Maintenance
- Monitoring
- Planning

FOCUS AREAS

-

0. Urban, Agriculture, Barren or Water





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

HOME

MAP THEMES

DASHBOARD

CREATE FOCUS AREA

Enter address or coordinates

CHANGE SCORE LAYER: Wildfire Threat BUFFER: 0

Health Project [X]

[EDIT] [DELETE]

Focus Area: Priority H2Oshed

Score: Average:

ID: 6 **Status:** Planning

Created: 12/3/2018 **Last Edit:** 12/3/2018

Contact: LB **Fund Source:** CPG - Forest Health

Email: lb@lb.copm

+ CREATE ACTIVITY

Legend

PROJECTS

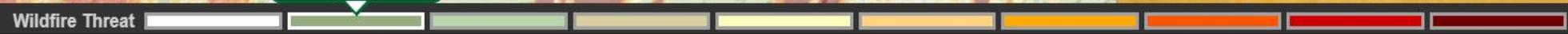
- Implementation
- Maintenance
- Monitoring
- Planning

FOCUS AREAS

-

10km
6mi

1. Very Very Low





NEVADA

NATURAL RESOURCES AND FIRE INFORMATION PORTAL

- Fire Suppression
- Forest Legacy
- Forest Products Permitting
- Forest Stewardship
- Fuels - Chipping
- Fuels - Fuelbreak Construction
- Fuels - Planning
- Fuels - RX Burn
- Fuels Treatment/Hazard Reduction Misc.
- Green Stripping
- Hand Pile
- Insect/Disease Treatment**
- Landowner/Public Assistance Misc.
- Lop and Scatter
- Monitoring
- Mowing
- Noxious Weed Survey
- Noxious Weed Treatment - Chemical
- Noxious Weed Treatment - Mechanical
- Pile Burning

Type ▾

CREATE

CANCEL

DASHBOARD

CREATE FOCUS AREA

Enter address or coordinates

CHANGE

SCORE LAYER: Wildfire Threat BUFFER: 0



Legend

PROJECTS

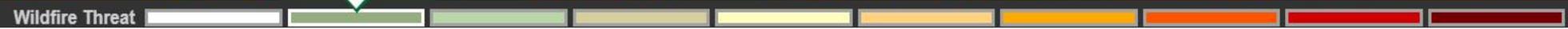
- Implementation
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FOCUS AREAS

-

10km
6mi

1. Very Very Low





NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

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MAP THEMES

DASHBOARD

CREATE FOCUS AREA

Enter address or coordinates

CHANGE

SCORE LAYER: Wildfire Threat BUFFER: 0

Priority H2Oshed

EDIT DELETE

Score: 7.190593 Average: 0.030623
 ID: 6 Region: Northern
 Created: 12/3/2018 Last Edit: 12/3/2018
 CWPP: County xyz Fund Source: Landscape Scale Restoration

+ CREATE PROJECT

Id	Project	Score	Created	Fund	Status
6	Health Project	8.046304	12/3/2018	CPG - Forest Health	Planning

1 Projects



Legend

- PROJECTS**
- Implementation
 - Maintenance
 - Monitoring
 - Planning
- FOCUS AREAS**
-



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Wildfire Threat

8. Very High

Why People Use Portals

Shared Stewardship

Accomplishment Reporting

Shared Stewardship



NEVADA NATURAL RESOURCES AND FIRE INFORMATION PORTAL

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Pan the map to view the likelihood a location may be impacted by wildfire

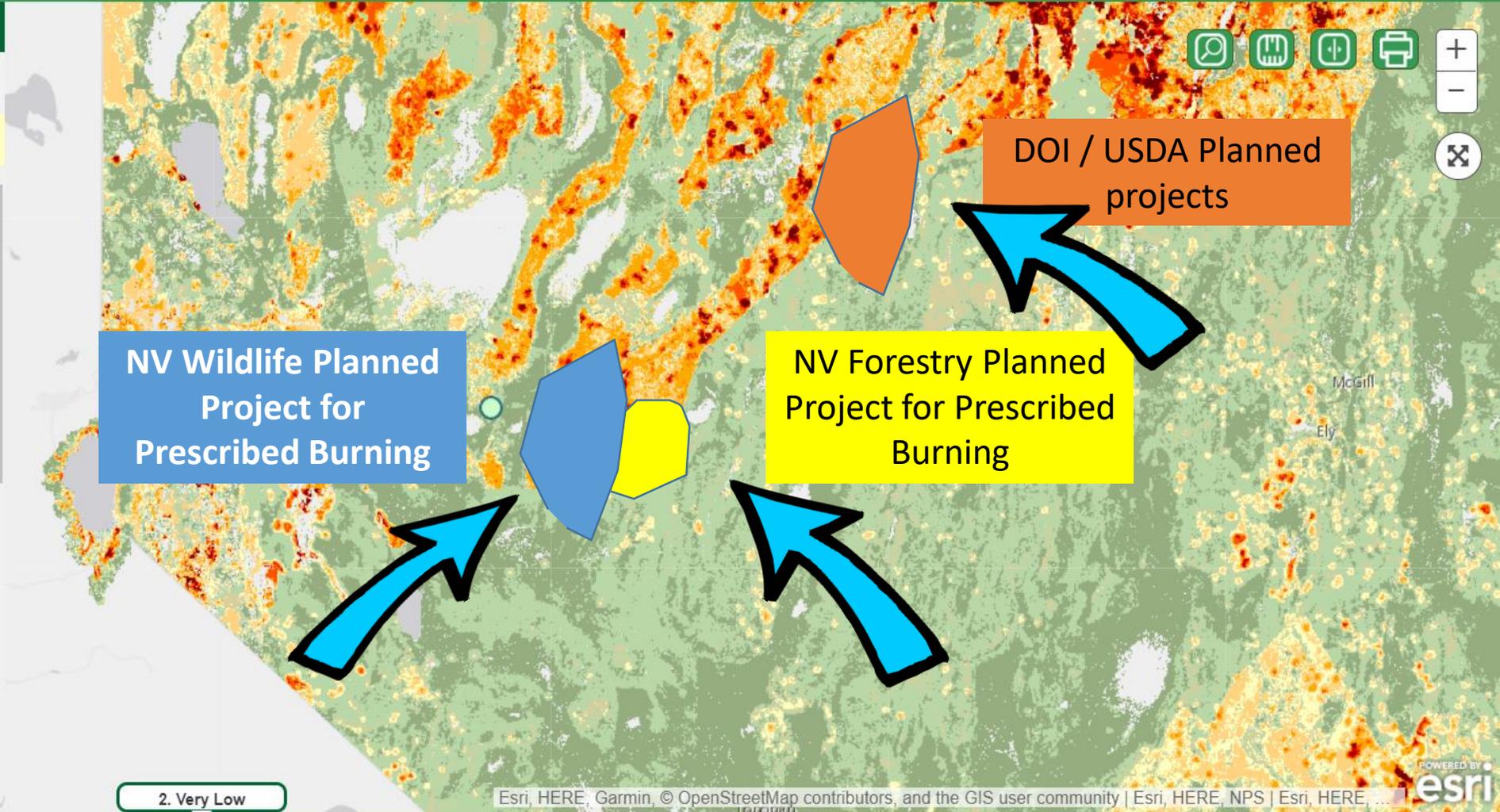
LOW THREAT LOW INTENSITY

39.3189° N 118.3736° W

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LOW THREAT LOW INTENSITY

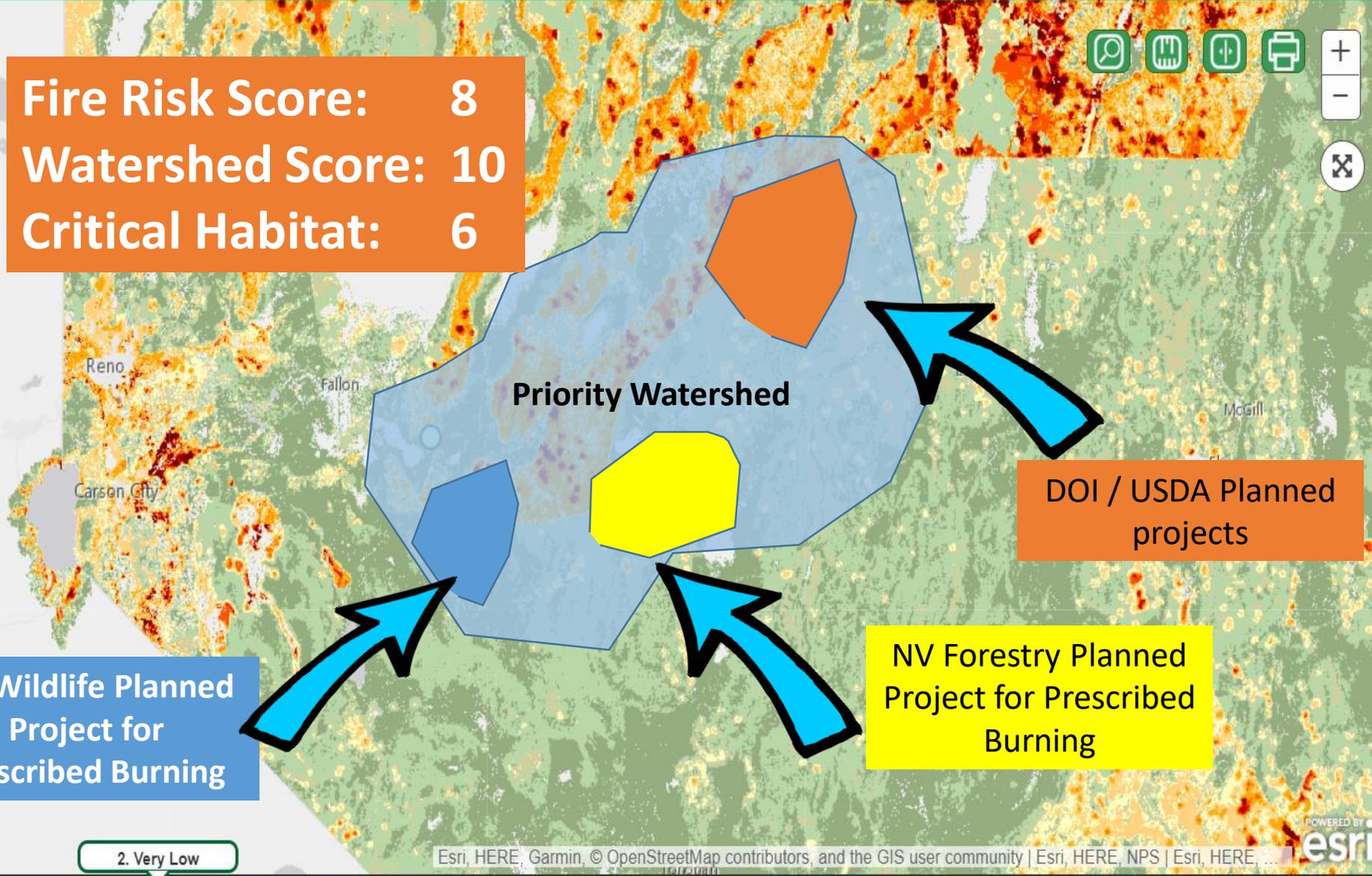
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Fire Risk Score: 8
Watershed Score: 10
Critical Habitat: 6



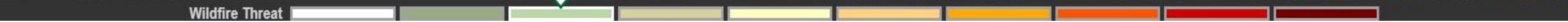
DOI / USDA Planned projects

NV Wildlife Planned Project for Prescribed Burning

NV Forestry Planned Project for Prescribed Burning



2. Very Low

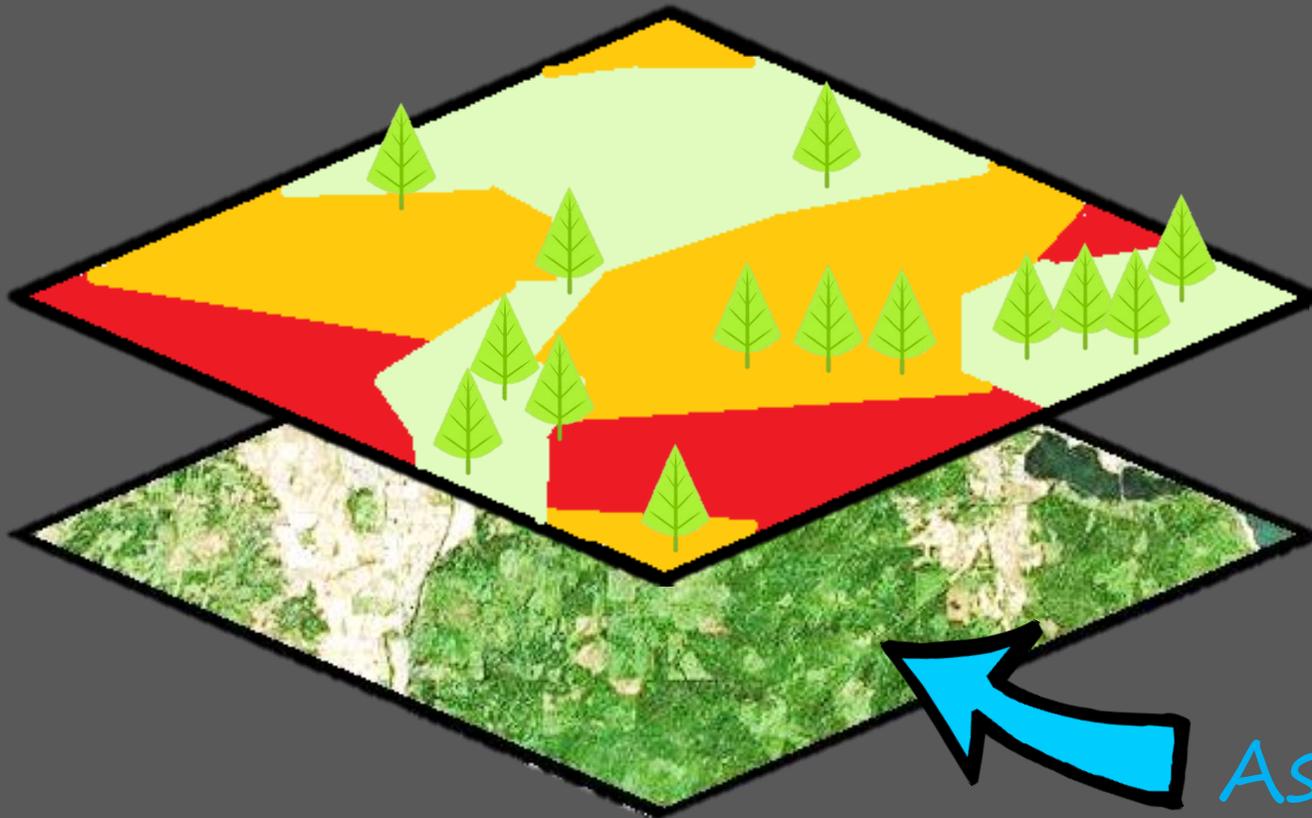


The Story Framework

1. Prioritize investment

2. Do Work (and track it)

3. Show Outcomes



Lowest Priority

Medium Priority

Highest Priority

Had 30%
Impact
(or alignment)

Assess Landscape

Why People Use Portals

Shared Stewardship

Accomplishment Reporting



HERE IS WHAT UTAH IS DOING TO PREVENT WILDFIRES



MITIGATION

22,104

ACRES TREATED



PREPAREDNESS

76

COMMUNITIES PREPARED



PREVENTION

279

ACTIONS TAKEN

How can you help? Just tell us who you are.

Public Viewer

For anyone interested in Wildfire Risk Assessment.



Professional Viewer

A free, powerful tool for wildfire protection planning.



Cooperative Wildfire Management System

A tool for counties, fire departments, and municipalities.





Strategic Planning Dashboard

Goal 1: MDC Takes... ▲

Goal 2: MDC Conne... ▲

Goal 3: MDC Mainta... ▲



GOAL 1
MDC Takes Care of Nature



GOAL 2
MDC Connects People with Nature



GOAL 3
MDC Maintains Public Trust



Legend



On Track



Needs Improvement



In Progress

Outcome 1.1 Missouri has healthy land, water, and forests.

[< back to Goal 1 outcomes](#)

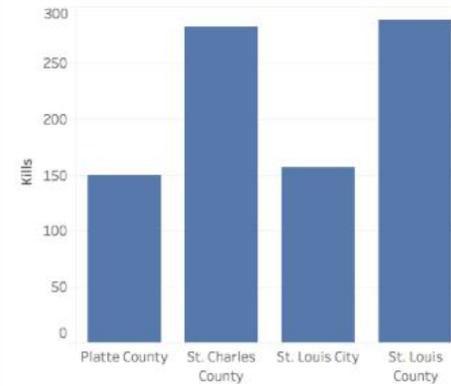
[< back to dashboard](#)



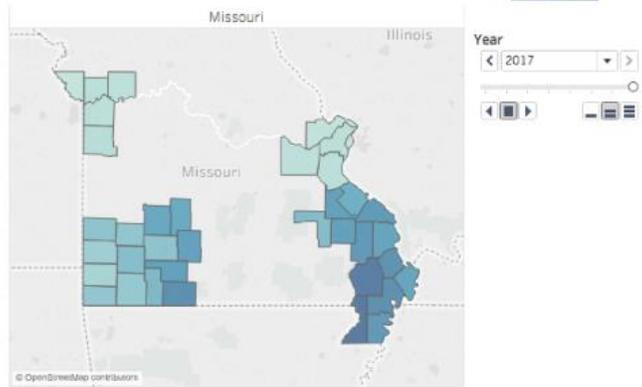
Feral Hogs Eliminated

Feral Hogs Elimination Progress

Close to Eradication



Hog Kills Location - 2017





NASF

Performance Measures



TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.





FIRE | Wildfire Risk reduced through active Vegetation Management

Strategic Priority

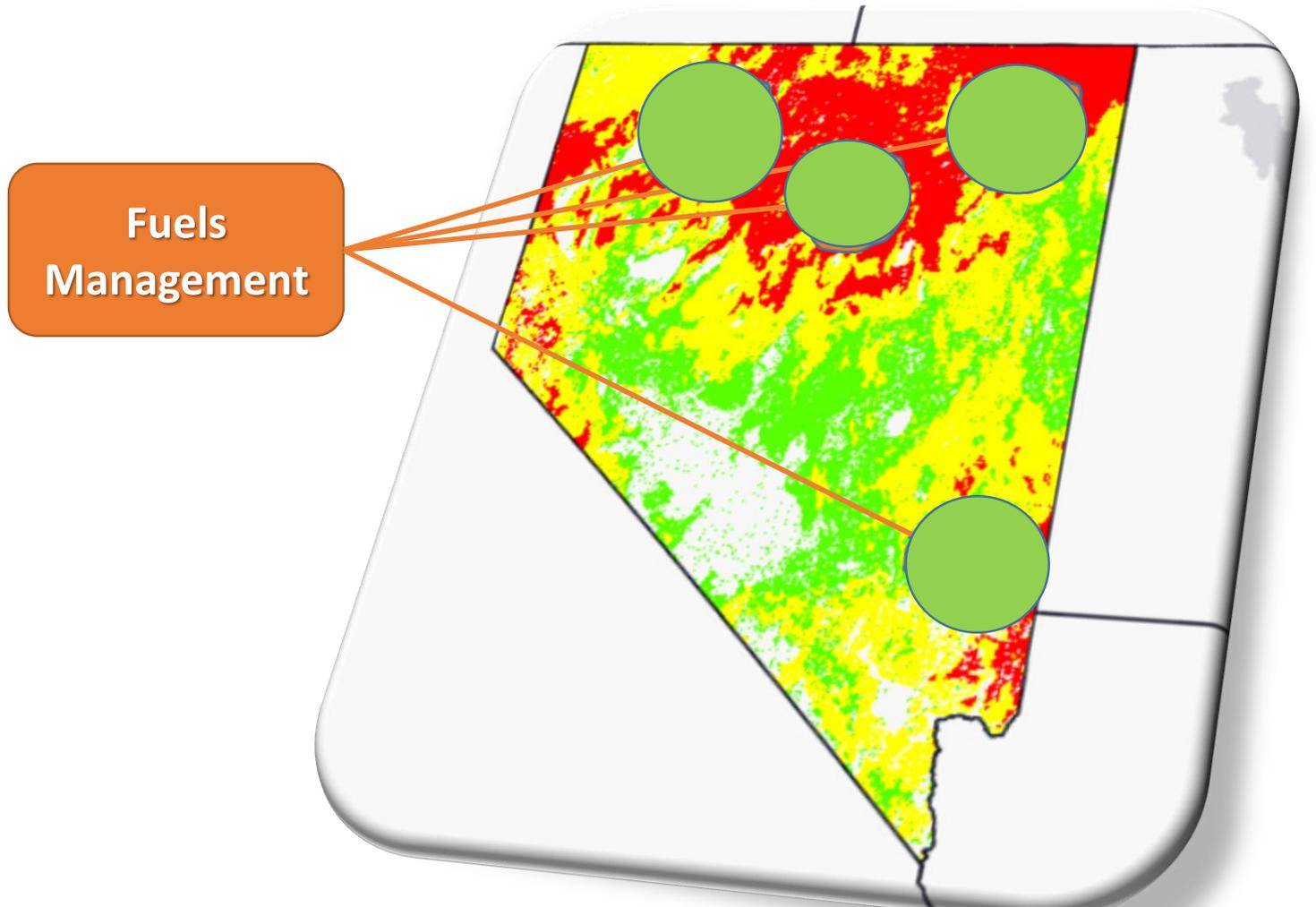
Landscape-scale Wildfire Risk

Measure

Forest & Fuels Management aligns to Priorities (Acres & % of High Wildfire Risk Area impacted)

Measure

% Reduction in risk



Thank You

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