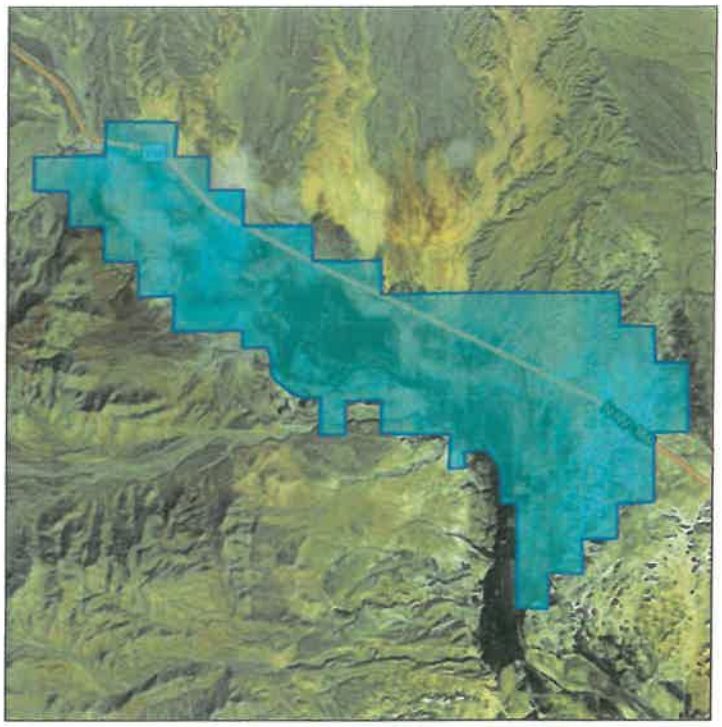
Warm Springs

Clark County, Nevada

Community Wildfire Risk Assessment



Total Assessed Rating

209 - Extreme

Suppression Rating

High Hazard

Surrounding Environment Rating

Extreme Hazard

Structures Rating

Extreme Hazard

Fire Protection District

Moapa Valley FPD

Fireshed(s)

Lower Pahranagat Wash, Upper Muddy River

Community Information

Latitude	36° 42' 59"
Longitude	-114° 41' 59"
Dwelling Units	65
Size	3,557.01 acres
Community Type	Residential - Mixed
Assessed By:	Josue Gonzalez
Assessment Date:	06-07-2022

SUPPRESSION ASSESSMENT

Ingress and Egress

2 or more roads in/out with NO response/evacuation complexity

2 or more roads in/out with SLIGHT response/evacuation complexity

→ **2 or more roads in/out with MODERATE/HIGH response/evacuation complexity**

One road in and out (entrance and exit is the same)

Recommended Mitigation Strategies

- ☐ Keep community ingress/egress open and maintained (cleared of vegetation)
- ☐ Develop community plan for evacuation routes, safe zones, staging areas
- ☐ If community is gated, develop evacuation plan and ensure emergency responder access
- ☐ Ensure residents know their closest exit in case of emergency
- ☐ Conduct an annual evacuation drill with ALL response agencies (Live/Sandtable)
- ☐ Ensure adequate notification plan exists/ALL residents know how and when to go.
- ☐ Ask Local Fire Department about Ready, Set, Go!

Road Width

→ **Road width is > 24 feet**

Road width is > 20 feet and < 24 feet

Road width is < 20 feet

Recommended Mitigation Strategies

- ☐ Keep shoulders of road clear for emergency vehicle use whenever possible

Road Accessibility

→ **Surfaced road**

Non-surfaced road, grade less than or equal to 5%

Non-surfaced road, grade greater than 5%

Non-maintained dirt road

Recommended Mitigation Strategies

- ☐ Ensure that road maintenance plan is in place

Secondary Road Terminus
Roads ends in a cul-de-sac, diameter > 100 feet
Roads ends in a cul-de-sac, diameter < 100 feet
→ **Dead end roads <200 feet long**
Dead end roads >200 feet long
Recommended Mitigation Strategies
☐ Ensure emergency responder are aware of dead-end roads; Consider signing all dead ends.

Street Signs
Present throughout, lettering 4 inches high, non-flammable and reflective
→ **Inconsistent throughout, lettering 4 inches high, non-flammable and reflective**
Present or inconsistent but wooden, non-reflective, or lettering less than 4"
Not present
Recommended Mitigation Strategies
☐ Replace missing signs; keep visible and clear of vegetation and fine fuels
☐ Keep street signs visible and clear of vegetation and fine fuels

Driveways
→ **Average driveway allows access to homes**
Average driveway restricts access to homes
Recommended Mitigation Strategies
☐ Maintain driveway access and clearance

Water Supply
Pressurized hydrants spaced less than 1000 feet apart
Pressurized hydrants spaced more than 1000 feet apart
→ **Dry Hydrant(s) / Draft available within the community**
Other accessible sources within community (pond, lake, etc.)
Water sources located within 4 miles of community (incl heli dip sites)
No water sources in or within 4 miles of the community
Recommended Mitigation Strategies
☐ Clearly mark and regularly test dry hydrants; coordinate with Local Fire Department
☐ Keep dry hydrants clear of obstructions and vegetation

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Geographic Features
No notable geographical features present to hinder fire suppression
→ **Suppression efforts hindered by geographical features (e.g. hazardous terrain)**
Recommended Mitigation Strategies
☐ Ensure emergency responders are aware of local geographic features that can hinder fire suppression efforts; consider pre-suppression plan

Local Response Resources
5 mi. or less from Agency with Response Authority (Staffed FD)
5 mi. or less from Agency with Response Authority (Mixed Staff/VFD)
5 mi. or less from Agency with Response Authority (VFD)
→ **> 5 mi. from Agency with Response Authority FD**
Recommended Mitigation Strategies
☐ Establish and maintain contact with the closest Fire Department; consider pre-suppression plan
☐ Discuss with closest Fire Department to identify quicker response strategies and other potential solutions

Community Organization/Governance
GID present; HAS structure for sustained fire prevention and mitigation
HOA present; HAS structure for sustained fire prevention and mitigation
Municipal govt present; HAS structure for sustained fire prevention and mitigation
GID present; LACKS structure for sustained fire prevention and mitigation
HOA present; LACKS structure for sustained fire prevention and mitigation
Municipal govt present; LACKS structure for sustained fire prevention and mitigation
→ **Lacks any structure for sustained fire prevention and mitigation**
Recommended Mitigation Strategies
☐ Work with community to become more proactive towards protecting your life and property against wildfires; Become a Firewise USA® Site
☐ Host a Community Education Event at least once a year
☐ Complete Community Risk Mitigation Project(s) as identified by Community Action Plan
☐ Ensure individual homes are ignition-resistant, hardened, and Firewise/Living with Fire concepts are followed

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SURROUNDING ENVIRONMENT ASSESSMENT

Predominant Vegetation

Light (grass)

Medium (brush)

Heavy (timber, overgrown sage, Pinyon/Juniper with dead/down, etc)

→ **Extreme / Slash (Any Combination of contiguous Light, Medium, Heavy)**

Recommended Mitigation Strategies

- ☐ Identify heavy fuel areas (jackpots) and consider removal or breaking them up
- ☐ Consider removal of ladder fuels that allow fire to climb from lower to higher vegetation
- ☐ Trim tree canopies regularly to keep their branches a minimum of 10' from structures and other trees
- ☐ Leave 30 feet between clusters of two to three trees, or 20 feet between individual trees
- ☐ Prune trees 6-10 feet from the ground

Defensible Space

> 75% of homes meet criteria in Zone 0, 1 & 2

50 to 75% of homes meet criteria in Zone 0, 1 & 2

< 50% of homes meet criteria in Zone 0, 1 & 2 - Light fuels amongst structures

< 50% of homes meet criteria in Zone 0, 1 & 2 - Moderate fuels amongst structures

→ **Fuels heavy/extreme amongst structures & other urban hazards/materials are present**

Recommended Mitigation Strategies

- ☐ Be aware of the risks from falling embers in relation to nearby fuels and defensible space
- ☐ Mow lawns regularly
- ☐ Water grass, plants, trees and mulch regularly
- ☐ Create a spacing of 30 feet between tree crowns
- ☐ Create a non-combustible area (zone 0) within 5 feet of your home, using non-flammable landscaping materials
- ☐ Remove dead vegetation from under the deck and within 10 feet of the house; stack firewood away from structures
- ☐ ConsiderÂ xeriscaping
- ☐ Plant a mixture of deciduous trees (e.g. oak and maple) and coniferous trees (e.g. pine)
- ☐ Create fuel breaks like driveways and gravel walkways
- ☐ Remove smaller conifers that are growing between taller trees
- ☐ Remove heavy accumulations of woody debris
- ☐ Clean up and remove flammable 'urban' materials within 30 feet of structures (garbage, abandoned vehicles, household debris, wood piles/debris, etc)

Structure-to-Structure Ignition

→ **No Possible Structure-to-Structure Ignition**

Possible Structure-to-Structure Ignition

Recommended Mitigation Strategies

- ☐ N/A

Slope

→ **Slope 0% - 5%**

Slope 6 % - 10%

Slope 11% - 30%

Slope > 31%

Recommended Mitigation Strategies

- ☐ N/A

Vegetation on Electric Transmission Lines

No above ground electric transmission lines present

Above ground electric transmission lines are maintained

→ **Above ground electric transmission lines are NOT maintained**

Recommended Mitigation Strategies

- ☐ Work with NDF and/or local fire protection district to alert electric provider (NVEnergy) of needed line maintenance

Topographical Features

→ **No topographical features adversely affect wildland fire behavior**

Topographical features adversely affect wildland fire behavior (box canyons, chimneys, etc.)

Recommended Mitigation Strategies

- ☐ N/A

Adjacency to Wildlands
Not adjacent to wildlands with accumulated fuels
→ **Adjacent to wildlands with accumulated fuels**
Recommended Mitigation Strategies
☐ When possible, install firebreaks and reduce fuel loads around community boundary to reduce risk from adjacent wildlands; Work with neighboring land owners

Undeveloped Lots with Restricted Access and/or Not Maintained
Fewer than 10% of lots are undeveloped
10% to 30% of lots are undeveloped
31% to 50% of lots are undeveloped
→ **Greater than 51% of lots are undeveloped**
Recommended Mitigation Strategies
☐ Provide Living with Fire/Firewise construction guidelines to developers /owners
☐ Consider developing covenant restrictions, if applicable

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STRUCTURES ASSESSMENT

Roofing Materials

> 75% of homes have metal, tile or class A asphalt or fiberglass shingles

→ **50 to 75% of homes have metal, tile or class A asphalt or fiberglass shingles**

< 50% of homes have metal, tile or class A asphalt or fiberglass shingles

Recommended Mitigation Strategies

- ☐ Use fire-resistant roofing material such as metal, tile or Class A shingles
- ☐ Inspect for and address gaps in roofing that can expose roof decking or supports
- ☐ Place angle flashing over openings between the roof decking and fascia board

Debris on Roof and/or Gutters

→ **No**

Yes

Recommended Mitigation Strategies

- ☐ Clear branch, leaf-litter and other debris from roof and gutters regularly
- ☐ Prune tree limbs away from roof

Ventilation and Soffits

> 75% of homes have non-combustible ventilation soffits with mesh or screening

→ **50-74% of homes have non-combustible ventilation soffits with mesh or screening**

< 50% of homes have non-combustible ventilation soffits with mesh or screening

Recommended Mitigation Strategies

- ☐ Â Clean vents to keep them free of debris, allowing them to keep embers out while allowing air flow for ventilation
- ☐ Enclose or box-in eaves with non-combustible materials such as metal, cement board or stucco
- ☐ Install a 1/8 inch metal screen behind roof vents

Siding

> 75% of homes have non-combustible siding

50-74% of homes have non-combustible siding

→ **< 50% of homes have non-combustible siding**

Recommended Mitigation Strategies

- ☐ Keep landscaping materials and vegetation away from combustible siding
- ☐ Create 5-foot non-combustible area (Zone 0) around house
- ☐ Replace with noncombustible siding when possible

Underskirting
> 75% of homes have skirting underneath raised floors/decks
50-74% of homes have skirting underneath
→ **< 50% of homes have skirting underneath**
Recommended Mitigation Strategies
☐ Remove combustible vegetation and leaf litter
☐ Spread gravel or other non-combustible material under the deck
☐ Screen in the bottom of the deck with metal 1/8-inch screening
☐ Separate wooden fences from the house with a stone or metal barrier

Wooden Attachments
> 75% of homes have NO Wooden Attachments
→ **50-74% of homes have NO Wooden Attachments**
< 50% of homes have NO Wooden Attachments
Recommended Mitigation Strategies
☐ Â Maintain debris-free decks (e.g. remove ignitable furniture, planters and covering propane grills, especially during high fire danger periods)
☐ Consider disconnecting fences from structures, or replacing materials directly attached to structures with fire resistant materials
☐ Be aware that wooden attachments can act as a fuse to the structure

Building Setback
→ **Not applicable**
Greater than or equal to 30 feet from slope
Less than 30 feet from slope
Recommended Mitigation Strategies
☐ N/A

Propane
> 30 feet from the house and surrounding vegetation maintained
→ **Fewer than 30 feet from the house and/or surrounding vegetation not maintained**
N/A
Recommended Mitigation Strategies
☐ Clear ALL flammable debris and materials from around propane tank regularly
☐ Consider setting propane tank on concrete or gravel pad

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Electric Utilities
Electric Underground
Electric Overhead drop maintained
→ **Electric Overhead drop not maintained**
Recommended Mitigation Strategies
☐ Keep vegetation pruned and mowed around electric right of ways; Drop to home is homeowner responsibility

Non-Combustible Zone 0
> 75% of homes/outbuildings have adjacent 5-ft non-combustible zone
50-74% of homes/outbuildings have adjacent 5-ft non-combustible zone
→ **< 50% of homes/outbuildings have adjacent 5-ft non-combustible zone**
Recommended Mitigation Strategies
☐ N/A

COMMENTS
High dry fuel components in the area will make rapidly fire spread. Dirt road are not suitable for heavy vehicle driving. Unknown fire hydrants locations and pressure.