

State of Utah

Community Wildfire Preparedness Plan

For the Wildland – Urban Interface

**Brighton & Big Cottonwood Canyon
2020**



Department of Natural Resources
Division of Forestry, Fire and State Lands
1594 W North Temple, PO Box 145703, Salt Lake City, UT 84114-570

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Declaration and Concurrence Page

This list needs to be customized to the individual plan. Provide the names and affiliations of all cooperators. This page will then be signed after all cooperators have reviewed the plan and concur with its contents.

BARBARA CAMERON

Community Council/Landowner

NAME

AFFILIATION

SIGNATURE

DATE

CAROLYN KEIGLEY

Town Council Member/Landowner

NAME

AFFILIATION

SIGNATURE

DATE

JEFF BOSSARD

Town Council Member/Landowner

NAME

AFFILIATION

SIGNATURE

DATE

DUSTY DERN

UNIFIED FIRE AUTHORITY LIAISON

NAME

AFFILIATION

SIGNATURE

DATE

BEKEE HOTZE

US FOREST SERVICE DISTRICT RANGER

NAME

AFFILIATION

SIGNATURE

DATE

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Declaration and Concurrence Page, continued

DAX REID

UTAH FORESTS FIRE & STATE LANDS

NAME

AFFILIATION

SIGNATURE

DATE

RANDY DOYLE

BRIGHTON SKI RESORT

NAME

AFFILIATION

SIGNATURE

DATE

KIM MAYHEW

SOLITUDE MOUNTAIN RESORT

NAME

AFFILIATION

SIGNATURE

DATE

DAN KNOPP

MAYOR OF BRIGHTON

NAME

AFFILIATION

SIGNATURE

DATE

NAME

AFFILIATION

SIGNATURE

DATE

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INTRODUCTION

Over 600 of Utah's communities have been classified as "at risk" of wildfire. The safety of the citizens of any community and the protection of private property and community infrastructure is a shared responsibility between the citizens; the owner, developer or association; and the local, county, state and federal governments. **The primary responsibility, however, remains with the local government and the citizen/owner.**

The purpose of wildfire preparedness planning is to...

- Motivate and empower local government, communities, and property owners to organize, plan, and take action on issues impacting the safety and resilience of values at risk
- Enhance levels of fire resilience and protection to the communities and infrastructure
- Identify the threat of wildland fires in the area
- Identify strategies to reduce the risks to structures, infrastructure and commerce in the community during a wildfire
- Identify wildfire hazards, education, and mitigation actions needed to reduce risk
- Transfer practical knowledge through collaboration between stakeholders toward common goals and objectives

Outcomes of wildfire preparedness planning...

- Facilitate organization of sustainable efforts to guide planning and implementation of actions:
1. Fire adapted communities 2. Resilient landscapes 3. Safe and effective fire response
- Improve community safety through:
 - ✓ Coordination and collaboration
 - ✓ Public awareness and education
 - ✓ Firefighter training
 - ✓ Fuel modification
 - ✓ Improved fire response capabilities
 - ✓ Fire prevention
 - ✓ Development of long-term strategies

RESOURCES

For resources to complete a wildfire preparedness plan for your community, consider organizations such as the following:

- ✓ Local / Primary fire protection provider
- ✓ Local Resource, Conservation and Development Districts
- ✓ Utah Division of Forestry, Fire and State Lands
- ✓ Utah State Fire Marshal (Dept. of Public Safety)
- ✓ Utah Division of Emergency Management
- ✓ Utah Living With Fire
- ✓ Local fire agencies
- ✓ Local emergency management services
- ✓ USDA Forest Service
- ✓ U.S. Department of Interior Agencies
- ✓ Utah Resource Conservation Districts
- ✓ Utah Soil Conservation Districts

STATEMENT OF LIABILITY

The activities suggested by this template, associated checklist and guidance document, the assessments and recommendations of fire officials, and the plans and projects outlined by the community wildfire council, are made in good faith according to information available at this time. The Utah Division of Forestry, Fire and State Lands assumes no liability and makes no guarantees regarding the level of success users of this plan will experience. Wildfire still occurs, despite efforts to prevent it or contain it; the intention of all decisions and actions made under this plan is to reduce the potential for, and the consequences of, wildfire.

Last revised March 2016

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This document provides the outline for and specifies the information recommended for inclusion in a wildfire preparedness plan. **Completed Community Wildfire Preparedness Plans should be submitted to the local Area Manager or Fire Management Officer with the Utah Division of Forestry, Fire and State Lands for final concurrence.**

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PLANNING OVERVIEW

Big Cottonwood Canyon is an unincorporated area of Salt Lake County that lies within the Uintah-Wasatch-Cache National Forest. From the mouth of the canyon, fifteen small communities are located along the 14.3 miles of State Highway 152, beginning with Mule Hollow (3.1 miles), then Laurel Pines (8 miles), Mt. Haven (8.5 miles), Cardiff (8.9 miles), Mill D (9 miles), Pine Tree (10.6 miles), Bear Trap (10.8 Miles), Silver Fork (11 miles), Giles Flat (12.8 miles), Forest Glen (13.5 miles), Evergreen (13.8 miles), Lady of the Lake (13.8 miles), Brighton (14.3 miles). There are approximately 200 full-time homes, 400 seasonal homes, and four commercial entities (Brighton, Solitude Ski Resorts, Silver Fork Lodge, and the Lifestyles Real Estate Office).

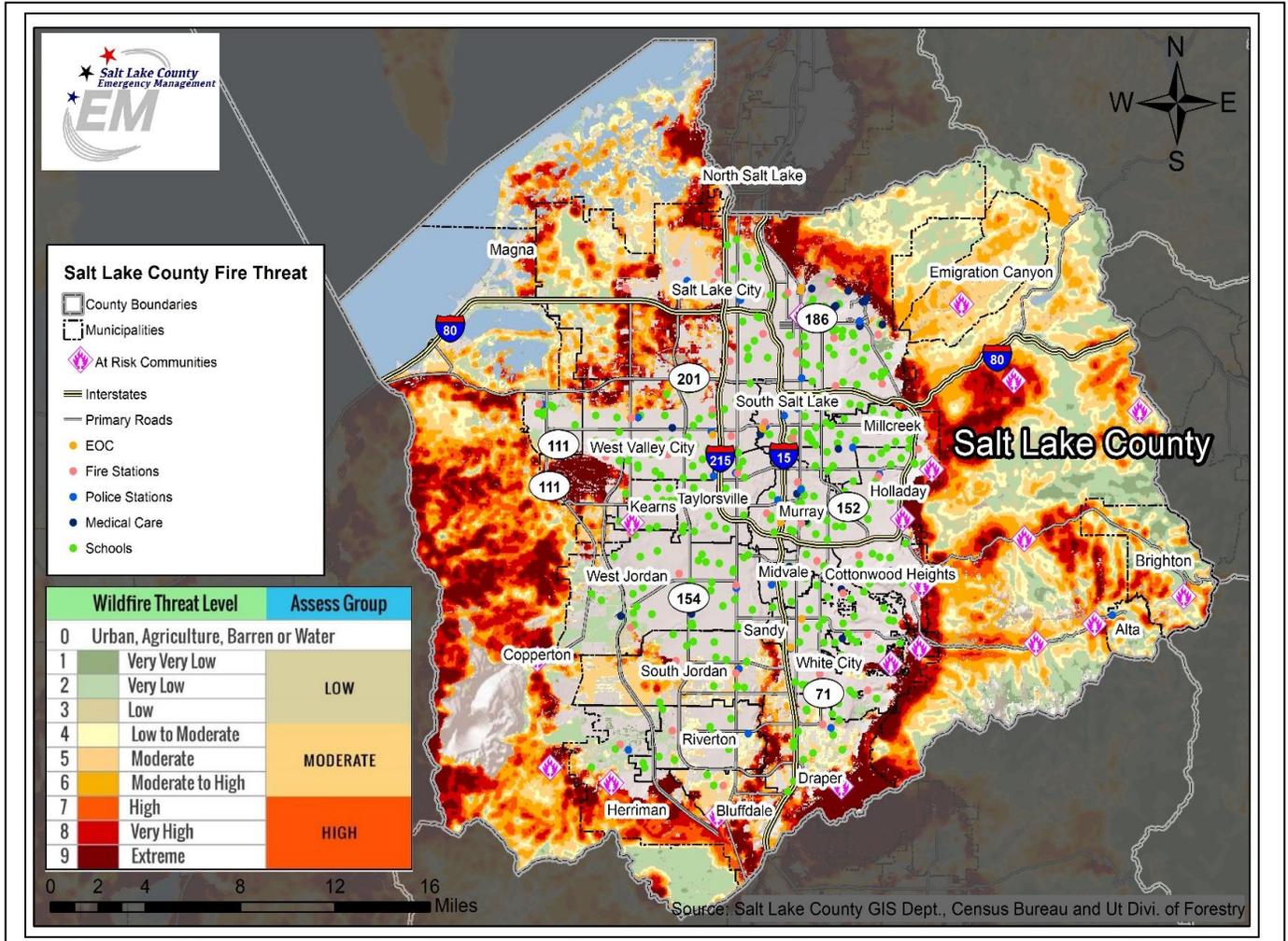
The Big Cottonwood Community Council has worked with federal, state and county agencies to implement fuel treatments that will reduce overall fire risk. Dense forests without fire management result in a less diverse and resilient landscape that offers little in the way of biodiversity or forage, but offers significant potential for catastrophic wildland fires.

Since 2006 community volunteers have been actively involved in limbing up and treating ladder fuels to prepare for the annual Chipper Days event. Each year the Community Council sponsors a FireWise event to inform homeowners of best-practice fire mitigation guidelines, and encourage participation in Chipper Days. Wildfire information is included in every newsletter that goes out to almost 1000 mailing addresses.

At first residents were hesitant to create Defensible Space, but over the years they have seen that the forest is healthier and their property is safer. The Chipper Days Project has been a resounding success, but one that takes a lot of planning each year to keep track of who has signed up, what particular needs they have, and how many hours they contribute.

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PLAN OVERVIEW MAP Area of Interest



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PARTNERSHIPS AND COLLABORATION

Briefly describe surrounding lands and the partners involved in coordinating the fuels treatments identified in the CWPP. This section can be added to as new projects and partners are developed. Community buy-in and desires to support and move these projects forward is critical to overall success.

The community of Brighton and Big Cottonwood Canyon are within the Uintah-Wasatch-Cache National Forest which includes dense timber stands covering three-fourths of the land area. The understory is also dense and could provide ladder fuels to create a catastrophic crown fire.

Several demonstration projects have been identified. One was a shaded fuel break along Forest Service land adjacent to the Mill D cabin area (Moose Loop Lane). Another two were on Forest Service land adjacent to private property in Silver Fork (Honeycomb Lane and Quakie Lane). A combination of mechanical treatments and hand crews were used. The projects showed property owners that forest management doesn't involve clear-cutting, but does involve limbing up and clearing ladder fuel. They were very successful in encouraging homeowners to treat fuels on their own property.

Chipper Days has been an ongoing community project since 2006, supported by Utah Forests Fire and State Lands and Unified Fire Wildland Crews. Property owners are encouraged to treat lands surrounding their homes to FireWise standards. It has been a very successful project, with over 1000 volunteer hours contributed annually to the project.

The Community Council has worked with the Salt Lake County Planning and Development Department to promote FireWise building ordinances, including Defensible Space concepts.

The Community Council has tried repeatedly to work with UDOT and the Forest Service to reduce standing dead and hazard trees along Highway 190. More work needs to be done on this project because it involves not only wildfire mitigation, but also community evacuation needs and public safety.

The community is working on a Community Emergency Preparedness Plan to promote educational and training opportunities for homeowners. Each community is divided into several Neighborhood Teams of 12-20 homes. Residents are encouraged to take care of their family first, then go out to help their neighbors in the event of an emergency.

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PART I

COMMUNITY DESCRIPTION

Community Legal Structure			
List the government entities associated with the community – city, town, unincorporated community, special service district, homeowner association(s), other.			
Organization	Contact Person	Phone Number	E-mail
Big Cottonwood Community Council	Barbara Cameron	801-694-9045	barbaracameron@hotmail.com
Big Cottonwood Improvement District	Brian Martain	801-558-9891	b.martain@gmail.com
Brighton Ski Resort	Randy Doyle	801-891-2000	rdoyle@brightonresort.com
Solitude Mountain Resort	Kim Mayhew	801-534-1400	k.mayhew@solitudemountain.com
Mayor, Town of Brighton	Dan Knopp	801-244-0366	danknopp@brighton.utah.gov
Brighton Town Council	Jeff Bossard	435-647-7941	jeffbossard@brighton.utah.gov
Brighton Town Council	Carolyn Keigley	775-224-1523	carolynkeigley@brighton.utah.gov
US Forest Service	Bekee Hotze	801-733-2675	rhotze@fs.fed.us

Population	
Approximate number of homes	800
Approximate number of lots	100
Approximate number of commercial entities	5
Approximate number of full-time residents	250
Approximated number of part-time residents	1500
<i>Notes/comments:</i> Big Cottonwood Canyon has very heavy visitation. Estimates say there are about 2 million visitors each year to the canyon.	

Restricting Covenants, Ordinances, etc. (Attach as appendix)	
For example, home association bylaws may have requirements regarding building construction materials or vegetation removal, or regarding access in a gated community.	
Source	Details

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Salt Lake County FCOZ Ordinance	The FCOZ ordinance regulates building types, set-backs, landscape, access, and watershed requirements. A copy of the ordinance can be found online at: https://www.utah.gov/pmn/files/247339.pdf
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Access
Directions to community
<p>From the mouth of Big Cottonwood Canyon (7000 So.at Wasatch Blvd.), go east on State Highway 190. Fifteen small communities are located along the 14.3 miles of road, beginning with Mule Hollow (3.1 miles), then Laurel Pines (8 miles), Mt. Haven (8.5 miles), Cardiff (8.9 miles), Mill D (9 miles), Pine Tree (10.6 miles), Bear Trap (10.8 miles), Silver Fork (11 miles), Giles Flat (12.8 miles) Forest Glen A, Forest Glen B, Forest Glen C (13.5 miles), Evergreen, (13.8 miles) Lady of the Lake (13.8 miles), Brighton (14.3 miles).</p>
All-weather access
<p>State Highway 190 is an all-weather 2 lane road which runs 17 miles from the mouth of the canyon to the Guardsmans Pass is a summer season access road, mostly paved, narrow 2-lane road which runs from Brighton to Park City. Access to all residential areas is mostly on unimproved, one-lane roads and driveways, most with limited turn-arounds. Winter access is provided by homeowners at their discretion. Brighton Circle.</p>
Seasonal access
<p>Guardsmans Pass is a summer season access road, mostly paved, narrow 2-lane road which runs from Brighton to Park City. Access to all residential areas is mostly on unimproved, one-lane roads and driveways, most with limited turn-arounds. Winter access is provided by homeowners at their discretion.</p>

Roads								
	None	Some	All	Adequate	Inadequate	% Pavement	% gravel	% dirt
Road signs present			yes					
Will support normal flow of traffic				10% support 2 lanes	90% support 1 lane of traffic	80% are paved		10% dirt
Are loop roads				70% loop roads				
Are dead-end roads					30% dead end roads			
Turnaround space available at end of road for emergency equipment (based on turning radius listed in the					Limited number of turn-arounds			

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guidance document)								
<i>Notes/comments:</i>								
Driveways								
	Adequate	Inadequate	No	Few	Most	All		
Most driveways width and height clearance, road grades and vegetation appearance are...					Very narrow			
Individual homeowners have posted their name and address					50%			
<i>Notes/comments:</i>								

Structures						
	None	Few	Some	Many	Most	All
Wood frame construction					Yes	
Have wood decks or porches					yes	
Have wood, shake or shingle roofs		Very few				
Are visible from the main subdivision road					yes	
<i>Notes/comments:</i>						

Bridges, Gate, Culverts, other			
	No	Some	All
Bridges support emergency equipment			Yes
Gate provides easy access to emergency equipment			Yes
Culverts are easily crossed by emergency equipment			Yes
<i>Notes/comments:</i>			

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Utilities						
	Below ground	Above ground	Provided by	Phone number	% marked with a flag or other highly visible means	% utilized
Telephone service		Yes	Century Link	385-414-2077	100% phone poles unless buried	20%
Electrical service		Yes	Rocky Mountain Power	877-548-3768	100% power poles, unless buried	100%
Are there homes utilizing propane?	Yes	Yes	Independent Companies		10%	90%
Are there homes utilizing natural gas?	No	No				

List locations of propane tanks above ground:		
Owner	Address, lat/long, etc.	Size
90% of homes use propane. It should be assumed that there is a propane tank on every property.	50% are buried and marked with a flag. Above-ground tanks are visible.	250-1000 gallons are average.
Notes/comments: Most structures use propane. It should be assumed that there is a tank (above-ground or buried) on each property.		

Primary Water Sources			
Approximate % homes using central water system		90%	
Approximate %homes using individual wells		10%	
Approximate % homes having additional private water source		2%	
Water provided by	Individual private water companies	Phone	801-330-3448 Steve McIntosh

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<i>Notes/comments:</i> Steve McIntosh is the water master for most of the water companies in the canyon (801.330-3448).			

List locations of water sources:		
Owner	Address, lat/long, etc.	Accessible
Brighton Water Company	8021 S. Brighton Loop Road	Yes
Solitude Water Company	12000 Big Cottonwood Road	Yes
Silver Fork Water Company	Silver Fork Water Company	Yes

Notes/comments: Each community has its own water source. Communities include Brighton, Forest Glen A-BC, Solitude, Silver Fork, Pine Tree, Cardiff, Mill D North Fork, and Mount Haven. Other water access includes:

Ponds / Creeks / other natural water sources

<u>Type:</u> <u>Pond / Creek</u>	<u>Location / GPS</u> <u>Coordinates</u>	<u>Status:</u> <u>Permanent /</u> <u>Intermittent</u>	<u>Helicopter</u> <u>Access?</u>	<u>Pump</u> <u>Required?</u>	<u># Gallons</u> <u>or CFS*</u>
Lake Mary	N40 34.904 W111 35.064	Permanent	Yes		
Twin Lakes	N40 35.477 W111 35.543	Permanent	Yes		
Mill D South Fork	N40 38'.151 W111 38..84	Permanent	No		
Willow Creek	N40 37.677 W111 36.657	Permanent	No	Yes	
Silver Lake	N40 35.728 W111 34.832	Permanent	Yes		
Big Cottonwood Cr	N40 38.530 W11138.682	Permanent	Yes		

** Ponds: measure by 1,000's of gallons; Creeks: measure in cfs during fire season*

Hydrants

<u>Location</u>	<u>Type:</u> <u>Dry/Pressurize</u>	<u>Data:</u> <u>*TP&S</u>	<u>GPM</u> <u>(max.)</u> <u>Output</u>	<u>Comments</u>
Mill D	Dry barrel	2.5 National Standard	1500 gpm	4 hydrants
Mt. Haven	Dry barrel	2.5/4.5 NS	1500 gpm	5 hydrants w/key
Cardiff	Dry barrel	2.5 NS	1000 gpm	8 hydrants Fittings for 1.5
Pinetree	Dry barrel	2.5 NS	1000 gpm	3 hydrants
Silver Fork	Dry barrel	2.5/4.5 NS	1000/1500	32 hydrants
Forest Glen A	Dry barrel	2.5 NS	1000 gpm	6 hydrants
Forest Glen BC	Dry barrel	2.5 NS	1000 gpm	9 hydrants
Evergreen				No hydrants
Giles Flat	Dry barrel	2.5/4.5 NS	1000 gpm	3 hydrants
Brighton	Dry barrel	2.5/4.5 NS	1000/1500	9 hydrants

** Thread Pressure and Size*

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Water Tanks

Location	Access	# of gallons*	Responsible Entity	Phone #
Silver Fork	Covered Hole	200,000	Silver Fork Water Co.	801-330-3448
Brighton	Covered concrete	200,000	Silver Lake Water Co.	435-714-0494
Solitude Resort	Mine shaft	200,000+	Solitude Mt. Resort	801-536-5776
Forest Glen A	Covered concrete	40,000	Forest Glen A Water Company	801-330-3448
Forest Glen B & C	Covered concrete	48,000	Forest Glen B& C Water Company	801-330-3348
Cardiff	Covered hole	20,000	Cardiff Watermaster	801-330-3448

** measure 1000's of gallons*

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PART II:

RISK ASSESSMENT

Estimated Values at Risk	
Provide an approximation of the estimated current values of residential and commercial property in the area. The County Assessor should be able to assist with this information.	
Estimated values at risk of commercial and residential property	\$ 354,533,020
Year	2018

Natural Resources at Risk
Describe the natural resources at risk in the area, such as watershed, forest products, wildlife, recreation tourism, etc.
Big Cottonwood Canyon lies within the Uintah-Wasatch-Cache National Forest. The U.S. Forest Service owns 25,242 acres (78%); 6,937 acres are private land (21%); 551 acres are owned by Salt Lake City and County (2%). This is the largest watershed drainage area for a city of 830,000 people (50 square miles of drainage area) Wildlife and recreation tourism are also critical elements to Salt Lake County and surrounding areas. This is the most used backcountry recreation area in the country because of its proximity to a large metropolitan area. Over 2 million visitors come to the canyon each year.

The following information is based on the Communities At Risk (CARs) list that was developed cooperatively at the local and state level to assist land management agencies and other stakeholders in determining the scope of the WUI challenge and to monitor progress in mitigating the hazards in these areas. This information is updated annually through the interagency fuel groups. Input the fields that are reflected on the state list found on our website at forestry.utah.gov.

Fire Occurrence: Number of fires in the area for the last 10 years 2007 to 2017

- 0 No Risk
- 1 Moderate 0 to 1 fire/township
- 2 High 2 to 14 fires/township
- 3 Extreme Greater than 14 fires/township

Total _____

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Area Fire History			
<u>Month / Year of Fire</u>	<u>Ignition point</u>	<u>Ignition source</u>	<u>Acres burned</u>
2011	Brighton Circle	Propane Leak	0.5
2014	Mill D North	Faulty Fireplace	0.5
2016	Silver Fork	Electric Short	0.5
2017	Mineral Fork	Lightning	30

Fuel Hazard: Assess the fuel conditions of the landscape and surrounding the community

[] **o** **No Risk**

[] **3** **Moderate** (Moderate to low to control, fire intensities would generally cause moderate damage to resources based on slope, wind speed and fuel. Vegetation Types: Ponderosa pine/mountain shrub, grassland, alpine, dry meadow, desert grassland, Ponderosa pine, Aspen and mountain riparian.) Areas of Moderate Risk: Pine Tree, Brighton, Evergreen.

[] **3** **High** (High resistance to control, high to moderate intensity resulting in high to moderate damage to resources depending on slope, rate of spread, wind speed and fuel loading. Vegetation Type: Maple, mountain shrubs, sagebrush, sagebrush/perennial grass, salt desert scrub, Black Brush, Creosote and Greasewood.) Areas of High Risk: Mt. Haven, Cardiff, Mill D.

[] **3** **Extreme** (High resistance to control, extreme intensity level resulting in almost complete combustion of vegetation and possible damage to soils and seed sources depending on slopes, wind speed, rate of spread and fuel loading.) Areas of Extreme Risk: Forest Glen, Silver Fork, Parts of Cardiff

Total 9 Areas at Risk

Values Protected: Evaluate the human and economic values associated with the community or landscape, such as homes, businesses and community infrastructure.

[] **o** **No Risk**

[500 Homes] **1** **Moderate** (Secondary Development: This would be seasonal or secondary housing and recreational facilities.)

[300 Homes, 2 Ski Resorts] **2** **High** (Primary Development: This would include primary residential housing, commercial and business areas.)

[SLC Watershed, Canyon Sewer System, 10 Water Companies] **3** **Extreme** (Community infrastructure and community support: This would be water systems, utilities, transportation systems, critical care facilities, schools manufacturing and industrial sites. It may also include

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valuable commercial timber stands, municipal watersheds and areas of high historical, cultural and/or spiritual significance which support and/or are critical to the well-being of the community.)

Total 120

Insurance Rating	
Provide the current insurance rating for the community	
ISO Fire Insurance Rating:	9

Protection Capabilities: Insurance Services Organization (ISO) rating for the community will serve as an overall indicator of the protection capabilities.

- Extreme 3** **ISO Rating 10**
- High 2** **ISO Rating 7 to 9 – Most areas in Big Cottonwood Canyon**
- Moderate 1** **ISO Rating of 6 or lower**

Total _____

Fire Occurrence	Fuel Hazard	Values Protected	Fire Protection Capabilities	Overall Rating
Total: 4-7 Moderate, 8-11 High, 12 Extreme				

The following information is based on the Utah Wildfire Risk Assessment Portal (UWRAP) and Area of Interest (AOI) Summary Reporting Tool. Reports are generated using a set of predefined map products developed by the West Wide Wildfire Risk Assessment (2012) project. The UWRAP provides a consistent, comparable set of scientific results to be used as a foundation for wildfire mitigation and prevention planning in Utah.

Wildland Development Areas (WUI): Data set is derived using modeling techniques abased on the Where People Live and population count data available to government agencies from the Department of Homeland Security.

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Wildland Development Area (WUI) Impacts: Data set is derived using a Response Function modeling approach. 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.

Wildfire Risk: combines the likelihood of a fire occurring (Threat), with those of areas of most concern that are adversely impacted by fire (Fire Effects). Wildfire Threat Index is derived from historical fire occurrence, landscape characteristics including surface fuels and canopy fuels, percentile weather derived from historical weather observations and terrain conditions. Fire Effects are comprised of Value Impacts and Suppression Difficulty.

	Total Acres AOI for each Category with the percentages added		
	WUI	WUI Impacts	Wildfire Risk
Low (1-4)	Canyon corridor adjacent to the river is low risk – 80%	Low Risk in roadway corridor because of wetlands and low altitude	Low
Moderate (5-7)	Upper canyon is glacial-cut wide area interspersed with wetlands 50% Moderate Wildfire Risk	Moderate Risk in upper canyon due to high visitation. Most communities and campgrounds are near road or wetland areas	Moderate
High (8-10)	Lower canyon is narrow, river-cut area, mostly designated Federal Wilderness area- 50% High Risk due to difficulty of fire management in Wilderness areas.	High Risk in lower canyon due to Wilderness wildfire management obstacles, combustible brush, oak, sagebrush vegetation, and high visitation	High

Including maps from the UWRAP report may also be beneficial in this section. Consider using the following as an example.

- Location Specific Ignitions
- Ignition and Fire occurrence density
- Water Impacts

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- Rate of Spread
- Suppression Difficulty
- Fire Effects

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Past Accomplishments	
Prevention	<ul style="list-style-type: none"> • Recognized nationally as a Smoky Bear Community Award (2013). • Formed an active CWPP committee that meets every other month.
Preparedness	<ul style="list-style-type: none"> • Completed a community wildfire protection plan (CWPP) in 2013. Updated in 2019. • Conducted annual community Wildfire Information Meetings since 2006 • Conducted Chipper Days events since 2003
Mitigation	<ul style="list-style-type: none"> • Chipper Days participation averages about 65 properties participating each year with over 1000 hours as in-kind contribution.
Maintenance	<ul style="list-style-type: none"> • Attend meetings and maintain contact with UFA Wildfire Battalion Chief and Utah Forests Fire and State Lands officials to keep updated on programs and requirements.

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PART III: RISK REDUCTION GOALS/ ACTIONS

Goals of Plan: Provide a brief statement under the Prevention, Preparedness, Mitigation and Maintenance goals. These should align with the pillars of the National Cohesive Strategy and the Utah Catastrophic Wildfire Reduction Strategy (1.Resilient Landscapes 2. Fire Adapted Communities 3. Wildfire Response).

Identification of Actions: Provide detailed project information. These projects/actions can be mapped/tracked in the Utah WRA portal and should be consistent with a Cooperative Agreement in compliance with the Wildfire Policy if applicable.

GOAL A: PREVENTION – Activities directed at reducing the occurrence of fires, including public education, law enforcement, personal contact.

Goal A.1 – Brighton will decrease fuels within the community to reduce wildfire impact in and around the community			
Action(s):	Timeline:	Community Lead:	Priority:
Promote individual lot clean up and creation of Defensible Space	Ongoing	Community Council	High
Arrange for community clean-up projects and roadside clean-up projects	Ongoing	Community Council, UDOT	High
Work with UFA and UFFSL to provide individual property fire assessments.	Ongoing	Utah Forests Fire and State Lands, UFA	High
<i>Notes, updates ,and monitoring</i>			

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GOAL B: PREPAREDNESS – Activities that lead to a state of response readiness to contain the effects of wildfire to minimize loss of life, injury, and damage to property. Including access to home/community, combustibility of homes/structures and creating survivable space.

Goal B.1 – Evaluate, upgrade and maintain community wildfire preparation			
Action(s):	Timeline:	Community Lead:	Priority:
Encourage homeowners to sign up for address signs.	Ongoing	Community Council	High
Notify County Sign Shop of needed repair of existing street signs	Ongoing	Community Council	High
Work with local UFA Station #108 to make sure they are able to get adequate equipment and funding	Ongoing	Town Council	High
<i>Notes, updates ,and monitoring</i>			

Goal B.2 – Educate community members to prepare for and respond to wildfire.			
Action(s):	Timeline:	Community Lead:	Priority:
Implement educational campaigns to include an annual Fire Safety information session.	Every summer	Town Council	High
Distribute printed material regarding wildfire in the June Newsletter	June	Community Council	High
Encourage homeowners to remove rocks along the road that block emergency vehicles	Ongoing	Town Council	High
<i>Notes, updates ,and monitoring</i>			

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Goal B.3 – Address identified regulative issues impacting community wildfire prevention and response needs.			
Action(s):	Timeline:	Community Lead:	Priority:
Meet regularly with County Planning Officials to be sure ordinances support FireWise standards, especially related to landscape and access	Ongoing	Town Council	High
Consult with UFA to assist with CWPP and Community Emergency Plan	Ongoing	Town Council	High
Update and simplify Community Maps	Ongoing	Town Council	Moderate
<i>Notes, updates ,and monitoring</i>			

Goal B.4 – Evaluate response facilities and equipment.			
Action(s):	Timeline:	Community Lead:	Priority:
Work with UFA to be sure we are up to date with the SAFE communities response program	Ongoing	Town Council	High
Work with Station #108 crews to be sure they are aware of community roads, locations, and needs in the various communities	Ongoing	Town Council	High
Work with Station #108 crews to advocate for adequate equipment	Ongoing	Town Council	High
<i>Notes, updates ,and monitoring</i>			

GOAL C: MITIGATION – Actions that are implemented to reduce or eliminate risks to persons, property or natural resources including fuel treatments and reduction.

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Goal C.1 – Decrease fuels within the community to reduce wildfire impact in and around the community.			
Action(s):	Timeline:	Community Lead:	Priority:
Conduct an annual Chipper Days event	September	Community Council	High
Work with the USFS to obtain permits to treat public land within 150 ft from private structures.	Summer	Community Council	High
<i>Notes, updates ,and monitoring</i>			

Goal C.2 – Work with local, state and federal fire officials to decrease fuels on private and adjacent public lands to reduce wildfire intensity and impact in and around the community.			
Action(s):	Timeline:	Community Lead:	Priority:
Work to maintain collaboration with Utah Forests Fire and State Lands for Chipper Days Projects	Ongoing	Community Council	High
Work with USFS and UFFSL to help distribute community updates regarding the Balsam Woolly Adelgid and the Spruce Beetle infestation issues	Ongoing	Community Council	High
Work with Salt Lake County to provide updates on insect infestation affecting the Cottonwood Canyons	Ongoing	Community Council	High

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GOAL D: MAINTENANCE – the process of preserving actions that have occurred including fuel treatments and reduction.

Goal D.1 - Regularly evaluate, update and maintain project commitments.			
Action(s):	Timeline:	Community Lead:	Priority:
Continue the public awareness programs that include annual printed material and an annual wildfire awareness meeting. We have been doing this annually and faithfully since 2003.	Ongoing	Community Council	High
Expand the public awareness plan to include infestations that affect canyon landscape such as BWA and Spruce Beetle.	Ongoing	Community Council	High
Be sure the CWPP includes the Town of Brighton's issues.	2020	Town of Brighton	High
<i>Notes and updates</i>			

Brighton and Big Cottonwood Canyon Wildfire Preparedness Plan

PART IV: CONTACTS

The contacts in this part identify community resources that can be used to complete the goals of the plan.

Planning Committee Member List			
Name	Affiliation	Phone Number	E-mail
Doug Fry	Brighton Community	801.557.9411	Fryslc@comcast.net
Kim Doyle	Brighton Resort	801.503.8414	kim@brightonresort.com
Barbara Schmidt	Brighton Girls' Camp	801.915.9660	presidentchestnut@brightonldscamp.org
Jeff Bossard	Brighton Community	801.558.5294	Jeffboss1620@gmail.com
Make Jager	Maxfield Community	801.541.8270	mejager9@gmail.com
Greg Hatch	Forest Glen Community	801.440.8785	hatchgear@aol.com
Carolyn Keigley	Forest Glen Community	774.224.1523	Carolyn@4snowart.com
Marvin Sumner	Solitude Village	801.330.3829	marvin@solitudemountain.com
Bryan Luftglass	Solitude Village	914.533.5300	Bryan.luftglass@gmail.com
Adam Peters	Solitude Village	801.535.4125	twinpeakspm@hotmail.com
Earlene Pitt	Silver Fork	801.712.1177	Pitt.earlene@gmail.com
Barbara Cameron	Silver Fork	801.694.9045	barbaracameron@hotmail.com
Cory Carlson	Silver Fork	801.860.2480	humbies@hotmail.com
John Dumas	Pine Tree	801.518.9205	skidumas@gmail.com
Kurt Hegman	Mill D North Fork	801.541.6710	Kurt.hegmann@gmail.com
Bart Reuling	Cardiff Fork	435.659.0142	fbreuling@msn.com
Russ Zimmerman	Mount Haven	801.205.3453	russandaida@gmail.com

Commercial Entities				
Organization	Contact Person	Phone Number	E-mail	Address
Brighton Ski Resort	Randy Doyle	801.891.2000	rdoyle@brightonresort.com	8302 S Brighton Loop Road
Solitude Ski Resort	Kim Mayhew	801.534.1400	k.mayhew@solitudemountain.com	12000 Big Cottonwood Canyon Road
Silver Fork Lodge	Dan Knopp	801.244.0366	dan@silverforklodge.com	11332 E Big Cottonwood Canyon Road

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Formal Associations			
Organization	Contact Person	Phone Number	E-mail
Big Cottonwood Community Council	Barbara Cameron	801.694.9045	barbaracameron@hotmail.com
Unified Fire Authority	Local Station #108	435.649.7108	

Media Support			
Organization	Contact Person	Phone Number	E-mail

Schools				
School	Contact Person	Phone Number	E-mail	Address
No schools in canyon				

Transportation			
Organization	Contact Person	Phone Number	E-mail

Private Equipment Capabilities				
Type of Equipment	Contact Person	Phone Number	E-mail	Address
Heavy equipment- bulldozers, trucks, backhoes, snowplows, generators	Randy Doyle	801-532-4731 x 103	rdoyle@brightonresort.com	8302 Brighton Loop Road Brighton, UT 84121
Heavy equipment- bulldozers, trucks, backhoes, snowplows, generators	Kim Mayhew	801-536-5776	kmayhew@solitude mountain.com	12000 Big Cottonwood Road Solitude, UT 84121

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Snowplows, tow truck	Paul Nell	801.403.6186	pa20653@msn.com	7442 E Guardsmans Pass Road Brighton, UT 84121
Snowplows, tow truck, generator	Dan Knopp	801-244-0366	dan@silverforklodge.com	11332 E Big Cottonwood Road Brighton, UT 84121

Other			
Organization	Name	Phone Number	E-mail
Big Cottonwood Canyon Improvement District	Brian Martain	801.558.9891	b.martain@gmail.com
Town of Brighton	Mayor Dan Knopp	801.244.0366	danknopp@brighton.utah.gov

APPENDIX SECTION

Appendix A: Expected Fire Behavior

Fuel Model 2

Rate of Spread, ch/h31
Heat per Unit area-btu/sq.ft.	493
Fireline Intensity btu/ft/s....	277
Flame Length ft.....	6 ft.
Reaction Intensity, btu/sq.ft/m.....	3573
Effective Windspeed, mi/h....	4.4
Direction of Maximum spread, degrees clockwise from uphill....	37

Fire spread is primarily through the fine herbaceous fuels, either curing or dead. These are surface fires where the herbaceous material, in addition to litter and dead-down stem-wood from the open shrub or timber overstory contribute to the fire intensity.

Fuel model 5

Rate of spread, ch/h	9
Heat per unit area, but/sq.ft	529
Fireline intensity, btu/ft/s	90
Flame length, ft	3.6
Reaction intensity, btu/sq.ft/m	2317
Effective windspeed, mi/h	3.1
Direction of Maximum spread, degrees clockwise from uphill	74

Fire is generally carried in the surface fuels that are made up of litter cast by the shrubs and the grasses or forbs in the understory. The fires are generally not very intense because surface fuel loads are light, the shrubs are young with little dead material, and the foliage contains little volatile material. Usually shrubs are short and almost totally cover the area.

Fuel Model 10

Rate of Spread, ch/h	4
Heat per unit area btu/sqft	1352
Fireline intensity, btu/ft/s	94
Flame Length, ft	3.6
Reaction intensity, btu/sqft/m	6211
Effective Windspeed, mi/h	2.6
Direction of maximum spread, degrees clockwise from uphill	28

The fires burn in the surface and ground fuels with greater fire intensity than the other timber litter models. Dead-down fuels include greater quantities of 3-inch (7.6 cm) or larger limbwood resulting from overmaturity or natural events that create a large load of dead material on the forest floor. Crowning out, spotting, and torching of individual trees are more frequent in this fuel situation leading to potential fire control difficulties.

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Appendix B: Physical Description

Area

Legal description: Big Cottonwood Canyon is an unincorporated area of Salt Lake County that lies within the Wasatch-Cache National Forest. From the mouth of the canyon, fifteen small communities are located along the 14.3 miles of State Highway 152, beginning with Mule Hollow (3.1 miles), then Laurel Pines (8 miles), Mt. Haven (8.5 miles), Cardiff (8.9 miles), Mill D (9 miles), Pine Tree (10.6 miles), Bear Trap (10.8 Miles), Silver Fork (11 miles), Giles Flat (12.8 miles), Forest Glen (13.5 miles), Evergreen (13.8 miles), Lady of the Lake (13.8 miles), Brighton (14.3 miles).

There are approximately 200 full-time homes, 600 seasonal homes, and four commercial entities (Brighton, Solitude Ski Resorts, Silver Fork Lodge, and the Lifestyles Real Estate Office).

The Town of Brighton lies in the upper canyon beginning at Mile Marker 10 on State Highway 190 thence to the Salt Lake County ridgeline boundary to the east. The area consists of 17 square miles; 12.5 sq. miles is US Forest Service land; 1 sq. mile belongs to Salt Lake City; 3.5 sq. miles is private land within the town of Brighton. The town has no jurisdiction over any federal public land.

USGS Map Quadrangle (optional): US Map Quadrangle: Mt. Aire/Park City West/Brighton

Topography and Vegetation

Slope Average 30% Range 2% % to 90%

Aspect All Cardinal direction:0-360 degrees

Describe the vegetation in the area:

Vegetation South: Southwest facing slopes are grass/sage communities.
Vegetation Mid-slope: Intermingled Mountain Mahogany/Serviceberry/Chokecherry
Vegetation High Elevation and Drainages: Quaking aspen intermixed with conifers (sub-alpine fir, Douglas fir, Englemann Spruce
Vegetation North facing Slopes: Douglas Fir/Aspen at 7000 ft. elevation Spruce/Fir Forest at 8000 ft elevation

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Appendix C: Local Emergency Contacts

Fire/Police/Paramedics 911

MEDICAL

Poison Control Center 800.222.1222

Hospitals

Alta View Hospital 801.501.2600

U of U Emergency Room 801.581.2291

Primary Children's Hosp. 801.662.1000

LDS Hospital 801.408.1100

St. Marks Hospital 801.268.7111

IHC Hospital-Murray 801.507.7000

Care Centers

FirstMed Urgent Care 801.943.3300

After Hours Medical-Holladay 801.509.9425

After Hours Medical-Sandy 801.609.9864

IHC InstaCare 801.871.6400

PUBLIC SAFETY

Sheriff Dispatch 801.743.7000

UFA Station #108 Local 435.649.7108

SLCounty 24 Hr Contact 385.468.6101

Sanitation (trash) 385.468.6325

Watershed 801.483.6884

Forest Service 801.236.3400

Public Lands Info 801.466.6411

Canyon Sewer District 801.558.9891

Road Conditions 511

Flood Control 385.468.6600

Power Outage 877.548.3768

Trees on Power Lines 888.221.7070

CenturyLink Outage 385.414.2077

Utah Avalanche Center 801.524.5304

Avalanche Hotline 888.999.4019

UPD Graffiti Hotline 385.468.9769

Planning/Code Enforcement 385.468.6700

Bear Sightings (DWR) 801.491.5678

Tow Truck-Paul Nell 801.403.6186

Tow Truck Dan Knopp 801.244.0366

Brighton Resort 801.532.4731

Solitude Resort 801.536.5776

SUMMER CAMPS

- Brighton Girls' Camp
Barbara Schmidt 801-915-9660
presidentchestnut@brightonoldscamp.org

- Camp Tuttle
Melanie Lees 801.597.9840
mlees@episcopal-ut.org
Libby Hunter 801-755-4939
hunterlib@comcast.net

- Salt Lake County Emergency Management
Clint Mecham
801-330-8491 (mobile) 801-743-7103 (office)
cmecham@unifiedfire.org

- Red Cross Disaster Action Team
Toni Wise
801-440-8757 (mobile) 801-323-7002 (office)
Toni.wise@redcross.org

- MARC Multi-Agency Resource Center
Toni Wise (see above) or Lisa Bagley (see below)

- VOAD Voluntary Organizations Active in Disasters
Lisa Bagley lisabagley@gmail.com

- Amateur Radios
Kelly Weldon hcleeyweldon@msn.com

- Team Rubicon
Noelle.Skilton@teamrubiconusa.org
Or
Robert.Toth@teamrubicon.us.org

- Salt Lake County Health Department
385-468-4124
HealthEMB@slco.org

- Salt Lake County Aging Services 385-468-3200
slcoagingservices@slco.org

- Salt Lake County Medical Reserve Corps
385-468-4100

ADJOINING COUNTY EMERGENCY CONTACTS

- Summit County-Chris Crowley
801-718-4628 (mobile) 435-333-1532 (office)
ccrowley@summitcounty.org

- Wasatch County-Sergeant Jeremy Hales
435-654-1098
jhales@wasatch.utah.gov

BRIGHTON OFFICIALS

Mayor Dan Knopp 801.649.0366
Council Member Admin/Finance-Keith Zuspan
Council Member Logistics-Jeff Bossard
Council Member Recovery-Carolyn Keigley
Council Member Information-Jenna Malone
Town Clerk Kara John

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Appendix D: List of Public Outreach Resources

General Fire Prevention

- “Are You Living in the Red?” pamphlet (Utah Fire Assessment Project: Bureau of Land Management et.al.)
- “How to Protect Your Home: It Could Happen to You” (USDA Forest Service)
- “How to Reduce Wildfire Risk” Tree City USA Bulletin (The National Arbor Day Foundation)
- “Living With Fire” video and pamphlet (Utah Living With Fire)
- “Protect Your Hide-away Home” pamphlet (Utah Department of Natural Resources)
- “Protecting Residences from Wildfire” (USDA Forest Service)
- “Protecting Your Home Against Wildfire” video (National Wildfire Coordinating Group)
- “Sunset on Tamarisk” pamphlet (Tamarisk Coalition)

Landscaping/Building

- “Firewise Plants for Utah Landscapes” Utah Forest Facts newsletter (Utah State University Extension)
- “Firewise Landscaping for Utah” booklet (Utah State University Extension)
- “How to Landscape for Safer Hillside Living” pamphlet (Los Angeles City Fire Department)

Community Planning

- “Community Involvement in Fire Prevention” (Fire Management Notes Vol. 42)
- “Community Planning: An Introduction to the Comprehensive Plan” (Kelly, Becker; Island Press)
- “County Land Use Planning: How Can Planners Help the Fire Services in Protecting Homes from Wildfire” (USDA Forest Service, General Technical Report INT 251)
- “Development Strategies in the Wildland/Urban Interface” (Western Fire Chiefs Association)
- “The Greenbelt Concept: Safeguarding Your Community with Planning Buffer Zones” (American Fire Journal)

Evacuation Planning

- “Fire Alert, Warning and Evacuation” guidance document (Utah Div. of Emergency Services & Homeland Security)

Websites

- Utah’s Forestry, Fire and State Lands—<http://www.ffsl.utah.gov>
- Utah Fire Information – <http://www.utahfireinfo.gov>
- FireWise Home Page -- <http://www.firewise.org>
- Forest Service Fire Management Website -- <http://www.fs.fed.us/r3/sfe/fire/index.html>
- Insurance Services Office (town fire ratings) -- <http://www.isomitigation.com/>
- National Fire Protection Association -- <http://www.nfpa.org>
- National Interagency Fire Center, Wildland Fire Prevention/Education – <http://www.nifc.gov/preved/rams.html>
- Moab Interagency Fire Center – <http://www.utahfireinfo.gov/mifc/>
- U.S. Department of Agriculture “How to Get Information” (contacts) – <http://www.usda.gov/news/howto/nre.htm>
- Utah BLM Fire Management Website – <http://www.ut.blm.gov/fire/Assessment/assessment.html>
- Utah Twenty-First Century Communities Program - <http://utahreach.usu.edu/comm21/index.htm>
- USFA Fire-Safe Landscaping Can Save Your Home – http://www.usfa.dhs.gov/citizens/all_citizens/home_fire_prev/rural/landscape.shtm
- Wildfire-proof your home: Minnesota DNR – <http://www.dnr.state.mn.us/volunteer/julaug02/firewise.html>
- How to protect your Home from Wildfire - http://burnsafetn.org/25tips_home.html
- <http://www.firewords.net/>
- <http://jawfonline.org/>
- <http://www.fs.fed.us/rmc/>
- <http://www.stateforesters.org/>
- <http://www.myfirecommunity.net/GuestHome.aspx>

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