# State of Utah

# Community Wildfire Preparedness Plan

For the Wildland – Urban Interface

# Stockton



2020



# **Declaration and Concurrence Page**

Adopting this CWPP doesn't mean you are fully engaged in the CWS process. Other participation and documentation are required for State delegated fire funding. Please consult with Utah State Forestry, Fire & State Lands in your area to ensure the process is complete. 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.

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.

THOMAS EARSOLA	Mayor				
Name	APPLIATION				
T/L	3/2/2020				
SEPATURE	DATE				
ASTENHATIMAN	Fire Chief				
NAME NAME	APPLIATION				
Sh	3/12/2020				
SKPATURE	DATE				
AUMATHAN THATCHER	Assistant Fire Chief				
NAME	AFFILIATION				
St	3/12/2020				
SIGNATURE	DATE				
AMPLYMAN	Stockton Fire Department				
Name	APPILIATION				
ant	3/12/2010				
	1 (Pay				
Stockton Wild	fire Preparedness Plan				
SIONATURE	DATE				
SAN WALTEN	Tooels County Fire Warden				
Nos	AFFILIATION				
7ht	5-14-2020				
Summer	Dave				

#### **CWPP Signature Page**

Name	Affiliation
Brian Trick	Area Manager
Signature BL TG	Date 01/14/2021
Name Julie Murphy	Affiliation Wildfire Risk Reduction Coordinator
Signature  Will Mushy, Jules Murphy (Jarl 14, 502) 14:55 MST)	Date 01/14/2021
Name Dax Reid	Affiliation WUI Coordinator
Signature  Dax Red (Jan 14, 2021 16:13 MST)	Date 01/14/2021
Name	Affiliation
Signature	Date
Name	Affiliation
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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
- ✓ 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\*\*

#### PLANNING OVERVIEW

Stockton Town is located 6 miles south of Tooele City in Tooele County, Utah. The 2000 corrected census population of the Town was 491. Annual Estimates of the Resident Population for Incorporated Places in Utah [Table 4: April 1, 2,000 to July 1, 2009 (SUB-EST2009-4-49)] published by the U.S. Census Bureau, Population Division in September 2010 showed an estimated population for Stockton at 590. That is an average growth rate of 10 residents per year since 2000. The current population estimate by the Town is 614. Stockton is susceptible to a very high risk of wildfire in the majority of the town. Wildfires tend to occur in areas near development and amenities with grassy and shrubby vegetation types. Benches and hilly areas adjacent to the mountainous areas, and areas with steeper slopes or grassy and shrubby vegetation also pose high risks. Wildfires have the potential to impact the residents, 270 residential units and 7 commercial structures.

5/5/2016 - The first community work session was held at the Stockton church.

Between the first and second work sessions, the mayor and other community members worked on completing the community description section of the plan.

**6/1/2016** - The second community work session was held at the Stockton Fire Department. The fire chief held an open house barbecue at the fire station for the community to attend prior to the work session. Food was donated to the event by the local Wal-Mart. Community members viewed the UWRAP risk assessment for Stockton.

Prior to the third community work session, Mayor Mark Whitney met with the Tooele County Fire Warden and Wasatch Front WUI coordinator to review the progress of the document and prepare for the community meeting. Mayor Whitney had reviewed the previous drafts and added comments to be included in the next session.

**10/18/2016** - The third community work session was held at the Stockton Town Hall, with members of the fire department, the mayor, BLM, county, BLM and FFSL present. Risk reduction activities were discussed.

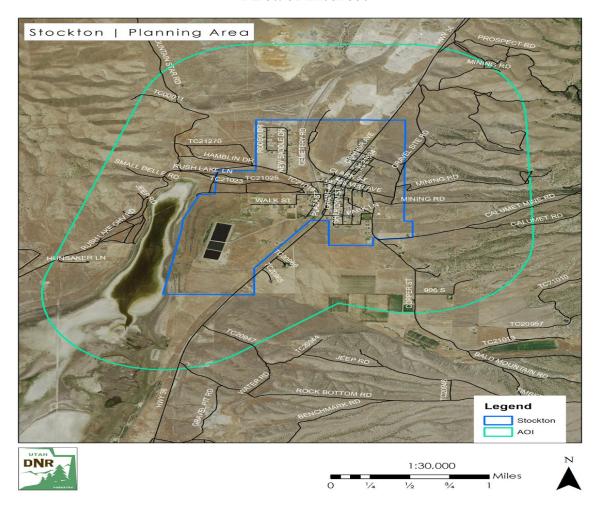
11/10/2016 - The CWPP was formally approved and signed by the city council at the Stockton Town Hall.

**3/6/2020 -** An annual CWPP meeting was held at the Stockton Fire Station. The Tooele County Fire Warden and Wasatch Front WUI Coordinator were present along with members of the Stockton Fire Department and a handful of residents.

**3/12/2020 -** The CWPP document was updated and presented to the Stockton Mayor to sign at the Stockton Town Hall.

1/12/2021 - Dax Reid Added the signature pages to the document which will be valid until 2025.

### PLAN OVERVIEW MAP Area of Interest



**COMMUNITIES AT RISK = 9** 

GPS = 40.4538883, -112.3613877

#### 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.

Kennecott is located to the east of the community. To the southeast, there is farmland and unincorporated county land., as well as in the northeast. The Rawhide Ranches are located to the north of the town. There is a sod farm to the south of town and a gravel pit to the north.

BLM property also borders the community and has been attending CWPP work sessions and outreach events.

The town of Stockton maintains property within the municipal boundary.

#### 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 E-mail					
Town of Stockton Thomas Karjola 435-882-3877						
Church of Jesus Christ of Latter Day Saints	Bishop David Thomas	801-910-1508				

Population					
Approximate number of homes	270				
Approximate number of lots	300				
Approximate number of commercial entities	7				
Approximate number of full-time residents	614				
Approximated number of part-time residents	n/a				
Notes/comments:					

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

Access
Directions to community
North/South Highway 36 depending upon direction coming from Silver – far East

Roads								
	None	Some	All	Adequate	Inadequate	% Pavement	% gravel	% dirt
Road signs present	0	0	•	0	0			0
Will support normal flow of traffic	0	0	•	0	O			0
Are loop roads	0	•	0	0	O			0
Are dead-end roads	0	•	0	0	0			0
Turnaround space available at end of road for emergency equipment	С	O	•	•	c			0

#### Notes/comments:

- Roads: \$6,016, 500 (11.4 miles)
  - Based on estimates derived from an average 28' wide, 4" thick asphalt county road with gravel subgrade replacement. Cache County, 2015 (\$525,000/mi).

Driveways						
Adequate Inadequate No Few Most All						All
Most driveways width and height clearance, road grades and vegetation appearance are	•	c	c	c	c	•

Individual homeowners have posted their name and address	0	0	0	0	•	0
Notes/comments:			•			

Structures									
None Few Some Many Most All									
Wood frame construction	0	0	0	0	•	0			
Have wood decks or porches	0	0	0	•	0	0			
Have wood, shake or shingle roofs	0	0	•	0	0	0			
Are visible from the main subdivision road	c	O	0	0	•	O			
Notes/comments:		ı		1	•	1			

Bridges, Gate, Culverts, other						
	No	Some	All			
Bridges support emergency equipment	0	0	•			
Gate provides easy access to emergency equipment	O	0	•			
Culverts are easily crossed by emergency equipment	0	0	•			

#### *Notes/comments:*

- Railroad lines: \$3,750,000 (2.38 miles)
- o Based on figures from 2009 Pre-Disaster Mitigation Plan for Bear River Region, Utah (\$1,500,000/mi).

  • Canals: \$2,700 (1.8 miles)
- - o Based recent Tooele County and regional project cost estimates, 2015 (\$1,500,000/mi).

	Utilities					
Below ground Below ground Provided by Provided by Provided by Phone number   % marked with a flag or other highly visible utilized means						
Telephone service	C	•	Century Link	800-261-1691		100

Electrical service	c	•	Rocky Mountain Power	888-221-7070	100
Are there homes utilizing propane?	0	•	A-1		15%
Are there homes utilizing natural gas?	•	0	Questar		50%

#### *Notes/comments:*

- Natural gas lines: \$1,400,000
  - Based on average replacement cost estimates for gas lines ranging from 2-inches-20 inches in diameter. These costs are based solely on labor and material costs, and may vary based on time, scope, and site specific variations (Questar, 2015).
- Electrical power lines: \$0
  - o Based on estimates from Logan Light and Power, 2015 (\$127,000/mi).

List locations of propane tanks above ground:				
Owner	Address, lat/long, etc.	Size		
Town of Stockton 699 Copper Street (Treatment well) 2 @1000 gal				
Notes/comments:				

Primary Water Sources					
Approximate % homes using cent	100%				
Approximate %homes using indiv	0%				
Approximate % homes having add	10%				
Water provided by	Phone				
Notes/comments:					

List locations of water sources:					
Owner Address, lat/long, etc. Accessible					
Notes/comments:					

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	\$ 18,596,900
Year	2007, 2013

#### Notes and comments:

- Residents at risk for wildfire: 524.8\*, 164 units, \$18,596,900\*\*
- Commercial units at risk for wildfire: 7 units, \$696,700, potential revenue loss \$4,495,827
- \* Based on the average persons per owner household for Tooele County from 2013 American Community Survey, which is 3.2.
- \*\* Current Market Value per parcel, including building and land values. Data provided by Tooele County.
- \*\*\* Based on average sales, receipts, or value of shipments of firms with or without paid employees, per firm (\$642,261 per firm). Derived from 2007 Survey of Business Owners for Tooele County, US Census Bureau.

#### **Natural Resources at Risk**

Describe the natural resources at risk in the area, such as watershed, forest products, wildlife, recreation tourism, etc.

- Wetlands/riparian: 10.27 acres
- Trails: 2.7 miles
- Agricultural production: 207.81 acres
- Grazing: 205.63 acres
- Town culinary water intake
- Town culinary water treatment plant
- Town emergency well
- Town park

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.

<b>Fire Occurrence:</b> Number of fires in the area for the last 10 years to					
<u>2013</u>					
0	0	No Risk			
O 1 Moderate O to 1 fire/township					

•	2	High	2 to 14 fires/township
0	3	Extreme	Greater than 14 fires/township
Rating	2		

Area Fire History					
Month/Year of fire	Ignition point Ignition source Acres bu				
July 2014	Northeast Bench	Human	189		
August 2018	North Stockton Bar	Lightning	7		

Fuel Haz	Fuel Hazard: Assess the fuel conditions of the landscape and surrounding the community				
0	0	No Risk			
O	1	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.		
O	2	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.		
c	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.		
Rating	3				

<b>Values Protected:</b> Evaluate the human and economic values associated with the community or landscape, such as homes, businesses and community infrastructure.				
0	0	No Risk		
Moderate Secondary Development: This would be seasonal secondary housing and recreational facilities.		Secondary Development: This would be seasonal or secondary housing and recreational facilities.		

•	2	High	Primary Development: This would include primary residential housing, commercial and business areas.
C	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 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.
Rating	2		

Insurar	nce Rating	
Provide the current insurance rating for the community		
ISO Fire Insurance Rating:	4	

<b>Protection Capabilities:</b> Insurance Services Organization (ISO) rating for the community will serve as an overall indicator of the protection capabilities.					
Image: The protection capabilities:         Image: The protection capabilities:					
0	2	High	ISO Rating 7 to 9		
0	3	Extreme	ISO Rating 10		
Rating	1				

Fire Occurrence	Fuel Hazard	Values Protected	Fire Protection Capabilities	Overall Rating
2	3	2	2	9
Total:	High			

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 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.

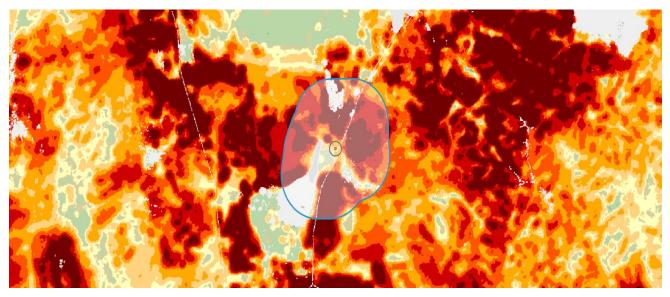
Wildfire Threat: A number that is closely related to the likelihood of an acre burning.

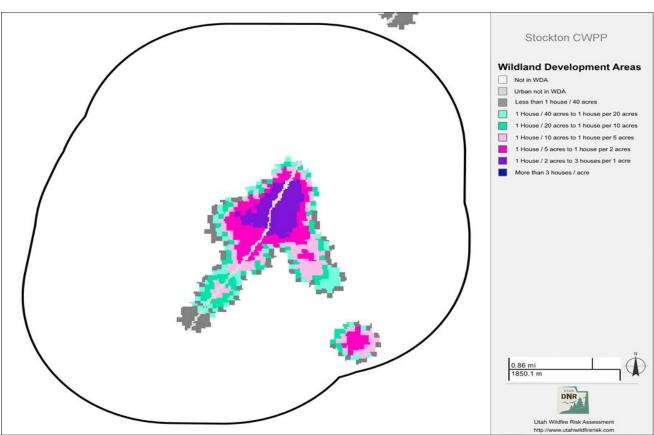
Wildfire Risk: Combines the likelihood of a fire occurring (Threat), with those of areas of most concern that are adversely impacted by fire (Fire Effects). Wildfire Threat Index is derived from historical fire occurrence, landscape characteristics including surface fuels and canopy fuels, percentile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

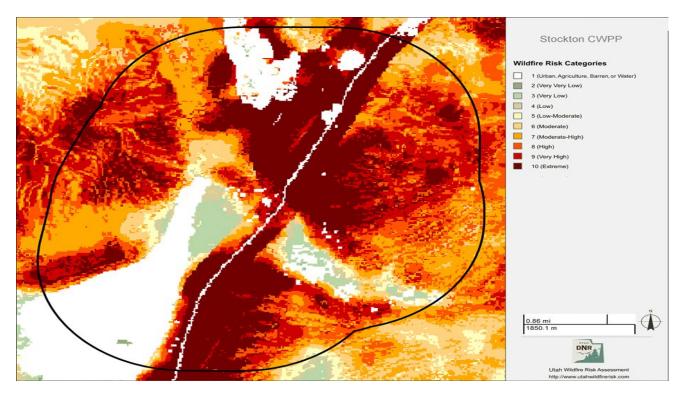
	Total Acres AOI for each Category with the percentages added					
	Wildfire Risk WUI Impacts Wildfire Threat					
Low (1-4)	1,073/21.8%	457/48.9%	975/20%			
Moderate (5-7)	762/15.6%	382/41.1%	662/13.5%			
High (8-10)	3,051/62.4%	106/10%	3,248/66.5%			

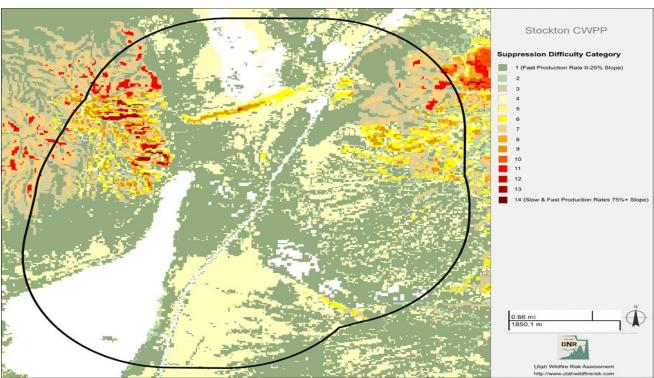
Including maps from the UWRAP report may also be beneficial in this section. Consider using the following as an example.

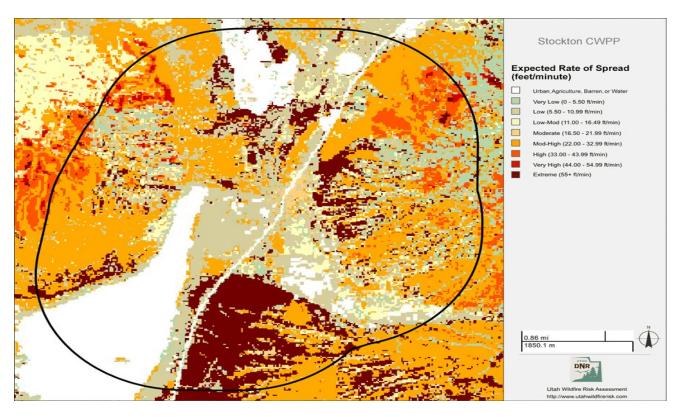
- Location Specific Ignitions
- Ignition and Fire occurrence density
- Water Impacts
- Rate of Spread
- Suppression Difficulty
- Fire Effects

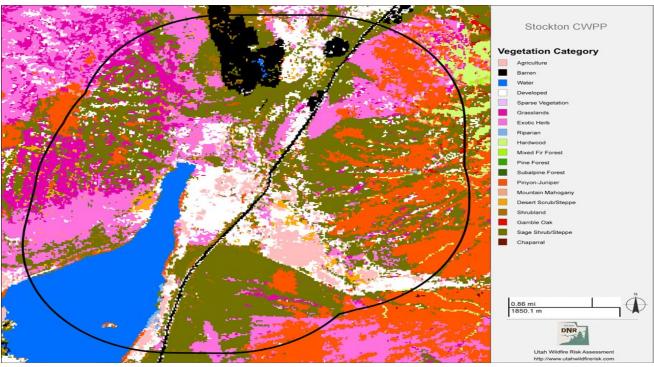


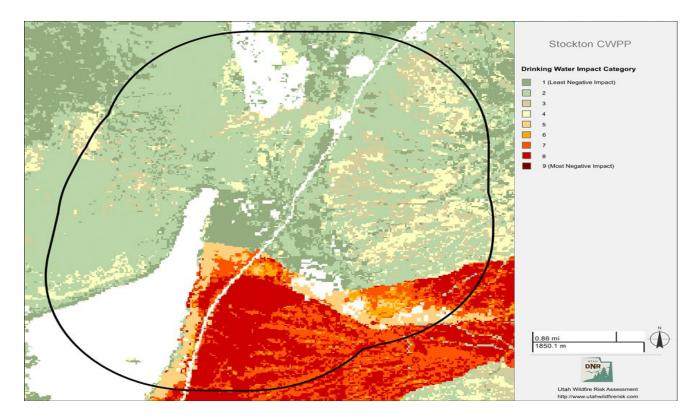












	Past Accomplishments				
Prevention	<ul> <li>CWPP meetings held in January and May 2019</li> <li>Community education-May 4th 2019 National Wildfire Prep Day. Awarded \$500 grant and hosted hotdogs at the park for families. Booths and information provided by the Tooele County Fire Warden, Wasatch Front WUI Coordinator, Tooele Army Depot and Stockton Fire Department. Smokey Bear and Sparky the Dog were also in attendance.</li> <li>Educational flyers were put in every resident's post office box explaining defensible space and project ideas.</li> </ul>				
Preparedness	Fire Department training-weekly				
Mitigation	<ul> <li>Spring 2019 Held a community workday in conjunction with National Wildfire Prep Day.</li> <li>11 dumpsters of waste were collected as homeowners worked to create defensible space around their homes.</li> <li>Town mowing-yearly</li> </ul>				
Maintenance	Town mowing, providing use of grader and backhoe				

# 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.Reslient 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 –			
Action(s):	Timeline:	Community Lead:	Priority:
Have fire booth at Stockton Days	Annually	FD/Tooele Warden	High
Hold an open house in Stockton	Annually	FD/Town	High
Put fire updates/educational material in utility bills	Annually	FD/Town	High
Update website with WUI/fire information	Annually	FD/Town	High
Notes, updates and monitoring			

<u>GOAL B: PREPAREDNESS</u> – 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:	
Distribute educational material in water bills	Spring/annually	Town	High	
Distribute defensible space materials at open houses  Annually				
Notes, updates and monitoring				

Goal B.2 – Educate community members to prepare for and respond to wildfire.					
Action(s): Timeline: Community Lead: Priority:					
Host Firewise Open House Annually Fire Chief High					

Participate in Firewise	Annually	Fire Chief	High
Participate in Ready, Set, Go!	Annually	Amy Lyman	High
Conduct property wildfire hazard assessments	2020	Amy Lyman	High
Notes, updates and monitoring			

Goal B.3 – Address identified regulative issues impacting community wildfire prevention and response needs.						
Action(s): Timeline: Community Lead: Priority:						
Weed Ordinance review	Annually	Town	Medium			
Develop landscaping ordinance for Firewise plants	2020	City Council/FD	Medium			
WUI building codes for future development 2020 City Council/FD Medium						
Notes, updates and monitoring						

Goal B.4 – Evaluate response facilities and equipment.				
Action(s):	Timeline:	Community Lead:	Priority:	
Update wildland PPE	TBD	FD	High	
Finish building tactical tender	TBD	FD	High	
Update vehicles and vehicle equipment	TBD	FD	Med	
Improve communication with radios, 2 800mhz, VHF	TBD	FD	High	
Raising hydrants	TBD	FD	High	
Notes, updates and monitoring				

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

Goal C.1 – Decrease fuels within the community to reduce wildfire impact in and around the community.					
Action(s):	Timeline:	Community Lead:	Priority:		
Blade fence line at south of B&B subdivision	Summer/annually	Town	High		
Mow sod farm area (200 acres)	Summer/annually	Town	High		
Mow town roads	April-November/annually	Town	High		
Revegetation in mowing areas	TBD	Town/FFSL	Med		

Town vegetation clean up day	Biannually	Town	High
Notes, updates ,and monitoring  • Town has provided mower fo	r past fuel reduction		

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:	
Contact Kennecott to discuss fuel reduction	January 2017	Justin Huffman/Tooele Warden/FFSL	High	
Discuss fuels work near the community	Ongoing	BLM/Dede Orr	Med	
Notes, updates and monitoring				

**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:	
Annually or biannually review CWPP	Ongoing	Mayor/Fire Chief	High	
Update participation commitment in tracking form	Monthly	Mayor/Fire Chief	High	
Notes and updates				

# 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	
Thomas Karjola	Mayor	435-882-3877	tkarjola@stocktontown.org	
Justin Huffman	Fire Chief	801-828-0268	Stocktonfiredept@gmail.com	
Amy Lyman	Stockton Fire Department	801-673-3126	stocktonfiredept@gmail.com	
Dax Reid	WFA WUI Coordinator	801-678-1655	daxreid@utah.gov	

Dan Walton Tooele County Warden	re 435-241-0027	dwalton@utah.gov
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Commercial Entities				
Organization	Contact Person	Phone Number	E-mail	Address
Kennecott	Justin Huffman has contact information for Kennecott			

Formal Associations			
Organization	Contact Person	Phone Number	E-mail
CERT			
LDS Stakes			

Media Support				
Organization	Contact Person	Phone Number	E-mail	
Facebook	Amy Lyman	801-673-3126	stocktonfiredept@gmail.com	
Mass text group				
Town website	Thomas Karjola	435-882-3877	tkarjola@stocktontown.org	
Utility mailings				

Transportation			
Organization	Contact Person	Phone Number	E-mail
County Roads			
UDOT			

Other				
Organization	Name	Phone Number	E-mail	
UT FFSL – Wasatch Front WUI	Dax Reid	801-678-1655	daxreid@utah.gov	
UT-FFSL – Tooele County Fire Warden	Dan Walton	435-241-0027	dwalton@utah.gov	
UT FFSL – Wasatch Front FMO	Dave Vickers	801-554-8984	dvickers@utah.gov	

BLM	Erik Valdez	801-977-4335	evaldez@blm.gov
BLM	Teresa Rigby	801-232-9252	trigby@blm.gov

## **APPENDIX**

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