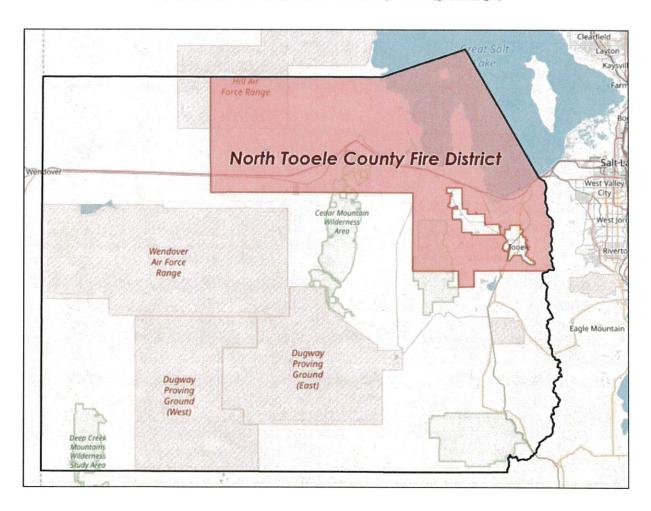
# STATE OF UTAH

# Community Wildfire Preparedness Plan

For the Wild land – Urban Interface

Developed by the

# **North Tooele Fire District**



December 20, 2018



Developed in cooperation with the Utah:

# Department of Natural Resources Division of Forestry, Fire and State Lands 1594 W North Temple, PO Box 145703, Salt Lake City, UT 84114-5703

# 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.

RANDY WILLDEN	North Tooele Fire District Chief
NAME	Affiliation
	-)
	12/20/2018
SIGNATURE	DATE
-	_
	North Tooele Fire District
JOHN STOUT	Assistant Chief/Fire Marshal
NAME	Affiliation
2//-	_
	12/24/2018
SIGNATURE	DATE
-	<del></del>
	Utah State Wildland Urban Interface
KATIE GIBBLE	Coordinator
NAME	AFFILIATION
/ <i>i</i> <del>/</del>	1,-1,0
(C)	01/15/19
SIGNATURE	DATE
_	_
DAN WALTON	Tooele County Fire Warden
NAME /	AFFILIATION
	_
flots	2/12/2019
SIGNATURE	DATE
	,
BRIAN TRICK	Wasatch Front Area Manager
NAME	AFFILIATION
2	_
19 river rives	01/16/2019
SIGNATURE	DATE
•	

Jason Brown	North Tooele Fire District
NAME	AFFILIATION —
Jon Moen	12/20/2018
SIGNATURE	DATE —
BUCKY WHITEHOUSE	Tooele County Emergency Management
NAME	AFFILIATION
Signature Signature	Z/12/3019 DATE
Paul Wimmer	Tooele County Sheriff
NAME	AFFILIATION
	/ /
7	2/12/19
SIGNATURE	DATE
KEN ALDRIDGE  NAME  SIGNATURE	North Tooele Fire District Board Chair AFFILIATION  DATE
NAME SIGNATURE	Board Chair AFFILIATION  //17/19
NAME SIGNATURE STEVE MANZIONE	Board Chair AFFILIATION     1/17/19   DATE    North Tooele Fire District Board Vice Chair
NAME SIGNATURE	Board Chair AFFILIATION  — //17/19 DATE  North Tooele Fire District Board
SIGNATURE  STEVE MANZIONE  NAME	Board Chair AFFILIATION  - 1/17/19 DATE  North Tooele Fire District Board Vice Chair AFFILIATION  - 1/17/19
SIGNATURE  STEVE MANZIONE  NAME  SIGNATURE	Board Chair AFFILIATION     1/17/19   DATE    North Tooele Fire District Board Vice Chair AFFILIATION   1/17/19   DATE   DATE
SIGNATURE  STEVE MANZIONE NAME  SIGNATURE  RICK POLLOCK	Board Chair AFFILIATION     1/17/19   DATE     North Tooele Fire District Board Vice Chair AFFILIATION     1/17/19   DATE     North Tooele Fire District Board
SIGNATURE  STEVE MANZIONE  NAME  SIGNATURE	Board Chair AFFILIATION    1/17/19   DATE    North Tooele Fire District Board Vice Chair AFFILIATION   1/17/19   DATE
	NAME  SIGNATURE  BUCKY WHITEHOUSE  NAME  SIGNATURE  SIGNATURE

DATE
North Tooele Fire District Board  AFFILIATION  [-/7-/9]
DATE
North Tooele Fire District Board  AFFILIATION  1-17-19
DATE
Wasatch Front Fire Management Officer (FMO)  AFFILIATION
DATE

# 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

Faye Hall	North Tooele Fire District Board			
Name	Affiliation			
Sayo Hall	12/20/18			
SIGNATURE	DATE			
SCOTT BISSEGGER	– North Tooele Fire District Board			
NAME	AFFILIATION			
- Att 1/ Bys -	- 12-20-18			
Signature	DATE			
Name	Affiliation			
SIGNATURE	DATE			

### INTRODUCTION

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# 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 longterm 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\*\*

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.

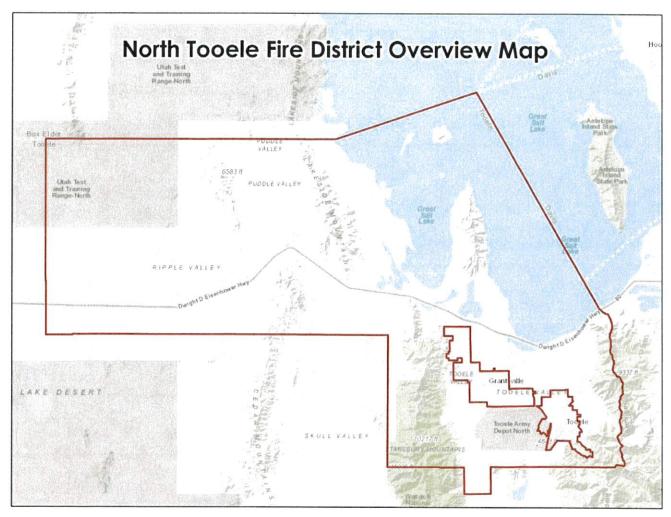
## PLANNING OVERVIEW

Briefly describe the overall planning process that took place to complete this plan. Be sure to include a timeline of the events/meetings, the organizations and partners that participated, a description of why this planning process was initiated, and the overall intended outcome of the process, and how outcomes were accomplished. This is much like the information described above (purpose and outcome) but tailored to your community. If desired, please acknowledge any individuals or organizations that were essential to accomplishing the final plan.

October 15th, 2018. 10AM-noon. In attendance: Randy Willden, John Stout, Cassandra Ray, Dan Walton, Katie Gibble. Accomplishments: Update. Before next meeting: November 26, 2018.

November 26, 2018. Follow-up meeting with Katie Gibble, Captain Jason Brown, and A/C John Stout. Purpose of this meeting was to review the updates made to North Tooele Fire District's (NTFD) CWPP and to discuss the origination and desired content of some of the data entries.

As this is the first formal CWPP to be completed by NTFD, it will be a work in progress. The main emphasis of this first CWPP will be to establish Goals and Objective for the future and to establish contacts and partners in this endeavor. NTFD has been responding to wild land and interface fires since it was established as a district in 1987. We hope the CWPP will enhance the interagency response to these incidents. The major goal is to create an open line of communication with as many parties as possible and to tap into and create a resource that is truly meaningful.



# PARTNERSHIPS AND COLLABORATION

- ✓ 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
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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
Stansbury Park Improvement District	Brett Palmer	435-882-7922	brettpalmer2007@yahoo.com
Oquirrh Mt. Water District (Lake Point)	Keith Fryer	801-250-0453	kfryer@lpid.us
Stansbury Park Service District	Gary Jenson	435-882-6188	gjensen@stansburypark.org
Tooele County Emergency Management	Bucky Whitehouse	435-833-8121	bwhitehouse@tcem.org
Tooele County Sheriff	Paul Wimmer	435-882-5600	
Tooele County Planning	Jeff Miller	435-843-3251	jmiller@tooeleco.org
Tooele County Engineering	Jim Richards	435-843-3495	jrichards@tooeleco.org
Tooele County Environmental Health	Brian Slade	435-277-2440	eh@tooelehealth.org
Tooele County Community Development	Rachelle Clister		rcuster@tooeleco.org
Erda Acres Water Company Tom Isom		435-843-9023	tisom2000@yahoo.com

Population – all focus areas				
Approximate number of homes	4,289			
Approximate number of lots	Rapid moving target			
Approximate number of commercial entities	57			
Approximate number of full-time residents	13,553			
Approximated number of part-time residents				

### Notes/comments:

- These numbers were provided by Bret Beede, GIS Administrator for Tooele County. The total population number was determined using the 2010 Census number of 3.16 persons per household. The Communities in the NTFD jurisdiction are growing rapidly.
- Lake Point and Stansbury Park are two communities with tremendous growth rates. Numbers could easily double.
- The community of Erda has several developments being planned at this time that could easily double the number of single family dwellings.

Restricting Covenants, Ordinances, etc. (Attach as appendix) – all focus areas
For example, home owner's association bylaws may have requirements regarding building construction
materials or vegetation removal, or regarding access in a gated community.

Source		
NTFD Resolution		
NTFD Resolution	Requirement of residential sprinkler systems for homes greater than 5000 Sq ft of habitable space in area without hydrants.	Any development without water infrastructure
Property Management Systems, Inc.	HOA-*	Pastures at Saddleback P.U.D Lake Point
Property Management Systems, Inc.	HOA-*	Mill Pond Stansbury
•	* No contact with HOA to date / Good opportunity for outreach and education of HOA management in the future	

# Access - Pine Canyon

# Directions to community

Access to Pine Canyon via two routes

# All-weather access

- 1. Access to Pine Canyon via 2000 North (Pine Canyon Road), a paved road off of Droubay Road to the west.
- 2. Pine Canyon is also accessed via Smelter Road to the south to Ericson Road. Ericson Road turns into Blue Peak Road. Blue Peak Rd. forms a junction with Pine Canyon Rd.

# Seasonal access

Both accesses are paved all-weather roads maintained and plowed by Tooele County.

Roads – Pine Canyon								
	None	Some	All	Adequate	Inadequate	% Pavement	% gravel	% dirt
Road signs present	(	(	X	X	$\sim$	100		
Will support normal flow of traffic	C	C	х	х	C	100		
Are loop roads	C	X	(	X	^	100		
Are dead-end roads	C	Х	C		X	100		

Turnaround space available at end of road for emergency equipment	C	X	100		
---	---	---	-----	--	--

- Paved roads to every home.
- Adequate space to operate Fire Engines, Trucks, Auxiliaries, and Tenders.
- Dead end roads are Churchwood Dr. and Pine Canyon Rd. These roads do not have adequate turnarounds.

Driveways – Pine Canyon							
	Adequate	Inadequate	No	Few	Most	All	
Most driveways width and height clearance, road grades and vegetation appearance are		х	C	X	(		
Individual homeowners have posted their name and address		х	C	X			

Notes/comments:

•

Structures – Pine Canyon							
	None	Few	Some	Many	Most	All	
Wood frame construction	(	(		C	Х	(	
Have wood decks or porches	C	C	X	C	C	C	
Have wood, shake or shingle roofs	(	C	х	C	(	(	
Are visible from the main subdivision road	(	C		C	Х		

# Notes/comments:

• Pine Canyon has several flag lots with inadequate access.

Bridges, Gate, Culverts, ot	her – Pine	Canyon	
	No	Some	All
Bridges support emergency equipment	X	(	
Gate provides easy access to emergency equipment			X
Culverts are easily crossed by emergency equipment	(	_	X

		Utili	ities – Pine C	anyon		
	Below ground	Above ground	Provided by	Phone number	% marked with a flag or other highly visible means	% utilized
Telephone service	x	X	Quest or Beehive Wireless			
Electrical service		X	Rocky Mtn. Power			
Are there homes utilizing propane?	n/a	(				
Are there homes utilizing natural gas?	X	(	Dominion Energy		Pipeline markers	

•

# Access - Erda

# **Directions to community**

Erda is the community south of Stansbury Park and North of Tooele City. Erda stretches from the west slope of the Oquirrh Mountains to the east to Sheep Lane to the west.

SR 36 divides Erda east and west and Erda Way divides it north and south. Droubay Rd. runs north and south and also extends through the community.

# All-weather access

All public roads in the community of Erda are County roads (with the exception of State Road 36), are asphalt, and are maintained and plowed by Tooele County.

Access and egress for the community is SR 36 and Droubay Rd north and south, and Erda Way east and west.

# Seasonal access

Roads – Erda											
	None	Some	All	Adequate	Inadequate	% Pavement	% gravel	% dirt			
Road signs present	c	C	•		, (	98	2				
Will support normal flow of traffic	C	C	•	•	C	100					
Are loop roads	(	•	(	•	C	85					
Are dead-end roads	C	•	C	•	C	15					
Turnaround space available	C	_	<b>(*</b>	(6	(	100					

Driveways – Erda										
	Adequate	Inadequate	No	Few	Most	All				
Most driveways width and height clearance, road grades and vegetation appearance are	•	C	C	C	X					
Individual homeowners have posted their name and address		х	C	C	X					

Structures – Erda									
	None	Few	Some	Many	Most	All			
Wood frame construction	(	(	C	C	•	(			
Have wood decks or porches	C	(	•	(	(	C			
Have wood, shake or shingle roofs	C	C	(6		_	C			
Are visible from the main subdivision road	(	(				(6			

• Most residential structures in the community are part of residential developments with large lots of 1 acre or larger. There are a few individual residential homes that not within a subdivision, but are on large acreage lots.

Bridges, Gate, Culverts, other – Erda									
	No	Some	All						
Bridges support emergency equipment		C	•						
Gate provides easy access to emergency equipment	0	C	(6						
Culverts are easily crossed by emergency equipment		C	( <del>•</del>						

Utilities – Erda										
	Below ground	Above ground	Provided by	Phone number	% marked with a flag or other highly visible means	% utilized				
Telephone service	X	X	Qwest or Beehive Wireless		100					
Electrical service	X	X	Rocky Mtn. Power		100					
Are there homes utilizing propane?	X	X	Various			10%				
Are there homes utilizing natural gas?	X	(	Dominion Energy			90%				

# Access – Stansbury Park

# **Directions to community**

Stansbury Park starts at State Road 36 milepost 63 and continues south to milepost 61. From milepost 63 along State Road 138 to milepost 18.

# All-weather access - All Access

Seasonal access - All Access

		R	oads -	Stansbu	ry Park			
	None	Some	All	Adequat	e Inadequa	te % Pavement	% gravel	% dirt
Road signs present	(		X	X	(	100		
Will support normal flow of traffic	r	C	X	X	C	100		
Are loop roads	(	X	C	X	C	100		
Are dead-end roads	C	Х	(	X	(	100		
Turnaround space available at end of road for emergency equipment	C	_	x	x	C	100		
		Dri	veways	s – Stans	oury Park			
			Adequ	uate Ina	lequate N	o Few	Most	All
Most driveways wid clearance, road gra appearance are			x		c c		C	X

Individual homeowners have posted their name and address	x	C		_	X	
--	---	---	--	---	---	--

Structures – Stansbury Park									
	None	Few	Some	Many	Most	All			
Wood frame construction	c	(	(	C	x	(			
Have wood decks or porches	٠	(	X	(	(	C			
Have wood, shake or shingle roofs	c	(	х	(	C	(			
Are visible from the main subdivision road	C	(	· C	0	C	X			

	No	Some	All
Bridges support emergency equipment	X	C	
Gate provides easy access to emergency equipment	(	C	X
Culverts are easily crossed by emergency equipment	C	C	X

		Utiliti	es – Stansbu	ry Park		
	Below ground	Above ground	Provided by	Phone number	% marked with a flag or other highly visible means	% utilized
Telephone service	x	X	Qwest or Beehive Wireless			
Electrical service		X	Rocky Mtn Power			
Are there homes utilizing propane?		(				
Are there homes utilizing natural gas?	X	(	Dominion Energy			
		Ac	cess – Lake ]	Point		

# Directions to community

Lake Point boundaries begins at milepost 99 on I-80 and continues south on State Road 36 and ends at milepost 63 on SR 36.

All-weather access			
All Access			
Seasonal access			
All Access			

	Roads – Lake Point							
	None	Some	All	Adequate	Inadequate	% Pavement	% gravel	% dirt
Road signs present			X	X		100		
Will support normal flow of traffic			X	x		100		
Are loop roads		X		X		100		
Are dead-end roads		X		X		100		
Turnaround space available at end of road for emergency equipment		x				100		

Driveways – Lake Point							
	Adequate	Inadequate	No	Few	Most	All	
Most driveways width and height clearance, road grades and vegetation appearance are	X					X	
Individual homeowners have posted their name and address		C	C	X	C		

Structures – Lake Point							
	None	Few	Some	Many	Most	All	
Wood frame construction	C	C		C .	X	(	
Have wood decks or porches	_	C	х		C	C	
Have wood, shake or shingle roofs	-		х		C	C	

,	,	C	(	X	
					A

	No	Some	All
Bridges support emergency equipment	X	C	
Gate provides easy access to emergency equipment	C	C	X
Culverts are easily crossed by emergency equipment	C	c	X

**Utilities - Lake Point** % marked with Below Above Phone a flag or other Provided by % utilized highly visible ground ground number means Qwest or Beehive Telephone service X X Wireless Rocky Mtn Electrical service X Power Are there homes ( X utilizing propane? Are there homes Dominion ( 100% X utilizing natural gas? Energy Notes/comments:

List locations of propane tanks above ground – all focus areasOwnerAddressSizeFlying J C-Store,1605 Saddleback Boulevard, Lake Point, UT 84074<br/>Tractor Supply 6880 N. Beaman Way, Stansbury Park, Ut 840741000 GalSalt Lake Airport @ ErdaWest Erda Way500 GalOTHER LRG STORAGEImage: Control of the contr

- Flying J C-Store has large capacity propane storage for dispensary. Flying J along with multiple other gas stations in areas have large underground gas and diesel fuel storage tanks.

  Tractor Supply has 1000 gal. Propane dispensary.

Annuarimete 0/ homes using as	ntual water avatem		750/	
Approximate % homes using co		75%		
Approximate %homes using in		25%		
Approximate % homes having	additional private water source			
Water provided by	Various	Phone		

Owner/Operator	Address	Accessible
Oquirrh Mt. Water Company	Lake Point	1-801-250-0453
Stansbury Park Water District	Stansbury Park	1-435-882-7922
Erda Acres Water Company	Erda	1-435-496-3468
Silver Spur Water Company	Erda	

# PART II:

# RISK ASSESSMENT

Estimated Values of Provide an approximation of the estimated current values of resing The County Assessor should be able to assist with this information	dential and commercial property in the area.
Estimated values at risk of commercial and residential property	\$ 75,000,000 (based on average 250,000 for single family dwelling plus 25% added for growth
Year	2018

# Natural Resources at Risk

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

Watershed

Recreation and tourism

Wildlife and Wildlife habitat to include Federally and State protected habitat.

Commercial grazing rights for ranchers.

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 Occu	Fire Occurrence: Number of fires in the area for the last 10 years to to							
(	0	No Risk						
(	1	Moderate	0 to 1 fire/township					
(	2	High	2 to 14 fires/township					
•	3	Extreme	Greater than 14 fires/township					
Rating	3							

	Area Fire l	History	
Month/Year of fire	Fire Name	Ignition source	Acres burned
September 2018	SR-201 @ I-80 Fire	<b>Downed Electrical Lines</b>	1500
July 2018	Middle Canyon Fire	Lightning	4000
August 2017	MM 43 & SR196	Lightning	1400
August 2017	9500 N Lakeshore	Power Pole Fire	1200

Fuel Haz	ard: Ass	sess the fuel cond	itions of the landscape and surrounding the community
(	0	No Risk	
C	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.
C	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.
•	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		

Values Pr	Values Protected: Evaluate the human and economic values associated with the community or landscape, such						
as homes,	as homes, businesses and community infrastructure.						
(	0	No Risk					
(	1	Moderate	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, May also include spiritual and learning centers.				
Rating	2		*				

# Insurance Rating Provide the current insurance rating for the community ISO Fire Insurance Rating: 4-9

		ilities: Insurance f the protection ca	Services Organization (ISO) rating for the community will serve as an apabilities.
(	1	Moderate	ISO Rating of 6 or lower
<b>(</b>	2	High	ISO Rating 7 to 9
(	3	Extreme	ISO Rating 10
Rating	2		

Fire Occurrence	Fuel Hazard	Values Protected	Fire Protection Capabilities	Overall Rating
3	3	2	2	10
Total: 4-7 Moc	derate, 8-11 Higl	n, 12 Extreme		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.

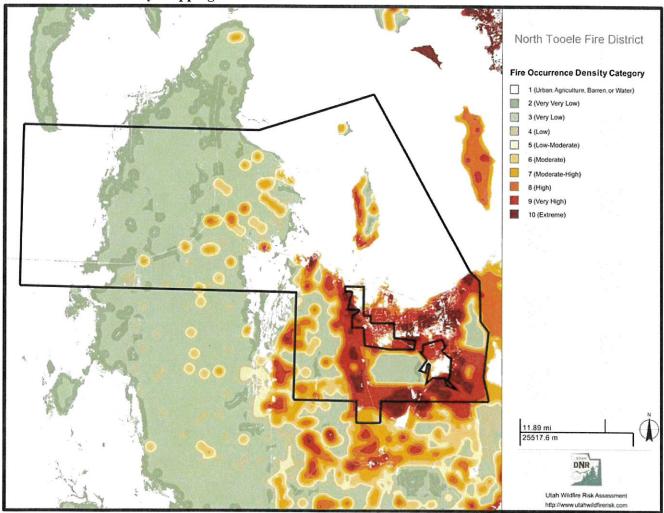
Wild land Development Area (WUI) Impacts: Data set is derived using a Response Function modeling approach. To calculate the Wild land Development Area Impact Response Function Score, the Wild land Development Area housing density data was combined with flame length data and Response Functions assignments 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)	868,226/ <b>78.4%</b>	7,427/ <b>71%</b>	870,208/ <b>78.6%</b>	
Moderate (5-7)	150,835/ <b>13.6%</b>	1,765/ <b>27.4%</b>	146,906/13.2%	
High (8-10)	89,062/ <b>8.1%</b>	181/1.7%	91,006/8.2%	

Fire Occurrence Density Mapping

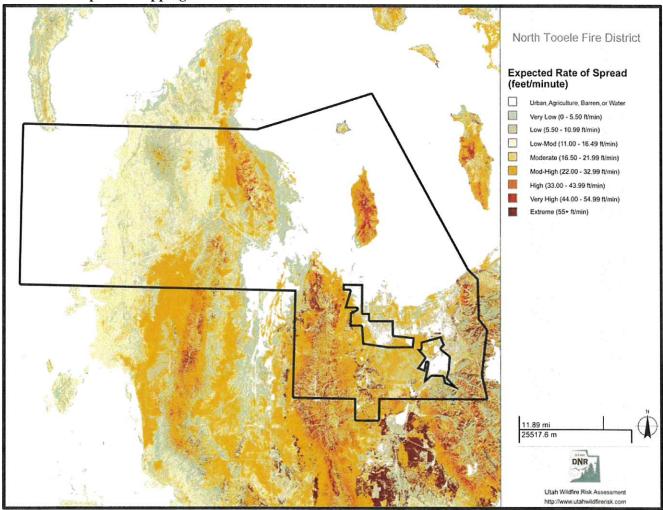


# Description

The Fire Occurrence ignition density map represents the likelihood of a wildfire igniting based on historical ignition patterns. Occurrence is derived by modeling historic wildfire ignition locations to create an ignition density map. The ignition rate is measured in the number of fires per 1,000 acres per year. Caution is important here to not view this as a probability but as an ignition rate or frequency.

Historic fire report data for the period 1999-2008 was used for ignitions with a defined location (latitude and longitude). Historic fires that did not have a specific location from 2004-2009 were assigned to a postal zip code. Together these fires were used to create the ignition density map. The compiled fire occurrence database was examined to remove duplicate records. The database was then modeled to create a fire occurrence density map reflecting historical fire ignition rates.

# Fire Rate of Spread Mapping



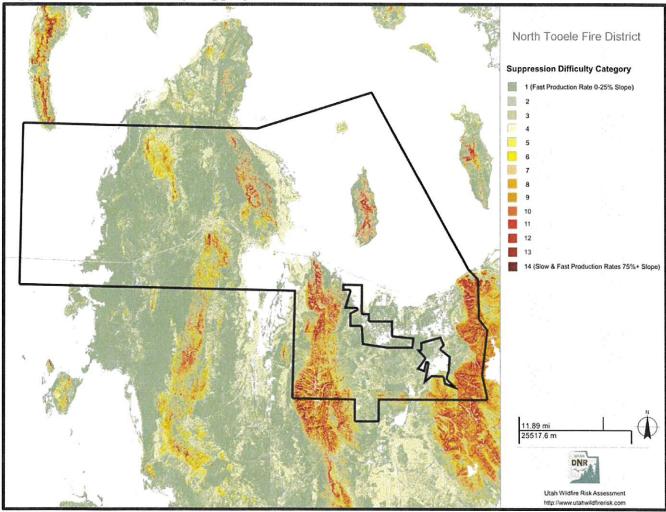
## **Description**

The Expected Rate of Spread is the expected rate of spread based on a weighted average of the proportion of fires that occur under each of the four percentile weather categories.

It can be viewed as the average rate of spread on might expect in an area. Rate of spread is defined the relative movement of a fire in a horizontal dimension. It is an indicator of how quickly a fire is spreading or moving horizontally. In the Utah WRA, it is expressed in feet per minute.

Rate of Spread is a fire behavior output, which is influenced by three environmental factors; fuels, weather, and topography. Weather is by far the most dynamic variable as it changes frequently. To account for this variability, four percentile weather categories were created from historical weather observations to represent low, moderate, high, and extreme weather days for each Weather Influence Zone in Utah. A Weather Influence Zone is an area where, for analysis purposes, the weather on any given day is considered uniform. There are 10 Weather Influence Zones in Utah.

# **Suppression Difficulty Rating Mapping**



# **Description**

The Suppression Difficulty data layer reflects the difficulty or relative cost to suppress a fire given the terrain and vegetation conditions. This layer is an overall index that combines the slope steepness and the fuel type characterization to identify areas where it would be difficult or costly to suppress a fire due to the underlying terrain and vegetation.

The rating was calculated based on the fire line production rates for hand crews and engines with modifications for slope, as documented in the NWCG Fire line Handbook 3, PMS 401-1 (NWCG 2004).

The surface fuel models in Utah were grouped into three categories: slow, medium and fast fire line production.

Fire line production capability on five slope classes was used as the basic reference to obtain the Suppression Difficulty Score. To remain consistent with the Value Impacted Scores output, a range of difficulty was assigned. The range was from 1 (least difficult) to 9 (most difficult). The Suppression Difficulty Score was developed for each combination of surface fuel type and slope category.

Past Accomplishments			
Prevention	NTFD is continuing to pursue methods of improving Community Awareness. The CWPP is one step toward this goal.		
Preparedness	Received surplus military 2.5 ton to be converted to wild land attack.  Added a new Type 6 engine with 4 FF seating.  Increased our water shuttle and wild land water source capability with upgraded blivits (Portable tanks) in addition to our existing fold-a-tanks.		
Mitigation	Coordinate with State and Federal Agencies in fuel reduction programs. Chipper Days – 2017, Tooele County Emergency Preparedness Fair – 2017 & 2018, Regular, on-going Facebook posts on prevention activities and programs.		
Maintenance	Ongoing process. Annual and Seasonal evaluation of program.		

# 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.

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

Action(s):	Timeline:	Community Lead:	Priority:
Community outreach programs	Continuous-*	TCEM / NTFD & Others	High
Community Awareness, engagement	Continuous	NTFD	High
Fuels Reduction Plans	On-going	NTFD	High
Update Response equipment	On-going	NTFD	High

Notes, updates, and monitoring:

<sup>\*-</sup>NTFD attends the Tooele County Emergency Management Open House each year, NTFD sponsors an annual Open House during Fire Prevention Week at the Stansbury Park Station, We participate in all of the Tooele County communities events every year. Tooele Army Depot, Wendover Fire, etc.

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.

Action(s):	Timeline:	Community Lead:	Priority:
Establish Annual and Seasonal review meetings to monitor progress.	Annual/Seasonal	NTFD	High
Public Information - PSA's	On-Going	NTFD	High
Fuel Reduction Programs to include Chipper Days 2019, removal of overgrown trees in Middle Canyon, reduce fuels in county recreation areas and campgrounds, improve fire pits in recreation areas and improve signage in recreation areas of fire dangers.	Every Spring	NTFD	High
			,

B.2 – Educate community members to prepare for and respond to wildfire					
Action(s):	Timeline:	Community Lead:	Priority:		
Training opportunities communicated to local Fire Chiefs and disseminated to firefighters	Opportunity Dependent	Fire Chief	High		
UFRA training opportunities available to all agencies	Continuous	Fire Chief	High		
Annual Refresher training	Annual	Training Officer	High		

Notes, updates, and monitoring:

# $B.3-Address\ identified\ regulatory\ issues\ impacting\ community\ wild fire\ prevention\ and\ response\ needs$

Action(s):	Timeline:	Community Lead:	Priority:
NTFD Resolutions to be reviewed and updated as necessary.	Continuous	NTFD	High
Tooele County Ordinances to be reviewed and updated as necessary.	Continuous	NTFD	High
Review International Fire Code	Continuous	NTFD	High

Notes, updates, and monitoring:

County Nuisance Weed Ordinance identified as an area needing updating.

County Ordinance on Lot maintenance needs updating.

# B.4 - Evaluate response facilities and equipment

Action(s):	Timeline:	Community Lead:	Priority:
Evaluate District station locations, staffing, personnel availability, equipment reliability and effectiveness, building conditions and capacities, etc	Continuous	Fire Chief	High
Review municipal, staffing, personnel availability, equipment reliability and effectiveness, building conditions and capacities, etc.	Continuous	Fire Chief	High
Document D.O.D. fire department locations, staffing, personnel availability, equipment reliability and effectiveness, building conditions and capacities, etc.	Continuous	Fire Chief	Medium
Tooele County Emergency Management is one of the agencies to provide needed resources for NTFD.	Continuous	Fire Chief	High

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

C.1 - Decrease fuels within the community	to reduce wildfire impact in and around the community.
CIT Deci case racis intental the community	to remain the manual and the committee of the committee o

Continuous	Fire Chief	
& Each Spring	riic Ciliei	High
Continuous	Fire Chief	High
Continuous	Fire Chief	High
	Continuous	Continuous Fire Chief

Notes, updates, and monitoring:

Middle Canyon Shaded Fuel Break - In Progress Smelter Prescribed Fire - Complete

Warr Prescribed Fire - Complete

Camp Wapiti Shaded Fuel Break - In Progress

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:
Lakepoint / Stockton / Onaquii Range Projects - BLM	2016 - Present	BLM	High

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

Action(s):	Timeline:	Community Lead:	Priority
Evaluate effectiveness of County Funded projects, evaluate need for maintenance, implement.	Bi-Annually	Dan Walton	High
BLM maintains their projects	Unknown	BLM	
USFS maintains their projects	Unknown	USFS	

# 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					
Affiliation	Phone Number	E-mail			
NTFD Fire Chief	435-882-6730	firechief@ntcfd.com			
Asst Fire Chief/Fire Marshal	435-882-6730	john.stout@ntcfd.com			
Captain	435-882-6730	Jason.brown@ntcfd.com			
Tooele County Fire Warden	435-241-0027	dwalton@utah.gov			
Utah State WUI Coordinator	801-678-1655	kgibble@utah.gov			
2					
	Affiliation  NTFD Fire Chief  Asst Fire Chief/Fire Marshal  Captain  Tooele County Fire Warden  Utah State WUI	Affiliation Phone Number  NTFD Fire Chief 435-882-6730  Asst Fire Chief/Fire Marshal 435-882-6730  Captain 435-882-6730  Tooele County Fire Warden 435-241-0027  Utah State WUI 801-678-1655			

Media Support				
Organization	Contact Person	Phone Number	E-mail	
Tooele Transcript/Bulletin		1-435 -882-0050	tbp@tooeletranscript.com	
Local TV Stations	Various			

Schools				
School	Contact Person	Phone Number	E-mail	Address
Excelsior Elementary	Leah Adar 435-841-1313	435-882-3062		124 Erda Way Erda, Utah 84074
Excelsior JR High	Leah Adar 435-841-1313			162 Erda Way Erda, UT 84074
Bonneville Academy	Laurel Marden 435-315-2080 EXT- 303	435-315-2080		800 Montauk Stansbury Park, UT 84074
Stansbury Park Elementary	Steve West 435-830-8431	435-833-1968		485 Country Club Stansbury Park, UT 84074
Stansbury High School	Steve West 435-830-8431	435-882-2479		5300 Stallion Way Stansbury Park, UT 84074
Rose Spring Elementary	Steve West 435-830-8431	435-833-1900		92 Lodestone Way Stansbury Park, UT 84074
Alpine Academy	Brandi Garcia 435-228-8136	435-228-0100		1280 Whispering Horse DR. Erda, UT 84074
Old Mill Elementary	Steve West 435-830-8431	435-833-9754		130 E. Brigham RD. Stansbury Park, UT 84074

Transportation				
Organization	Contact Person	Phone Number	E-mail	
Tooele County Roads UDOT	Rod Thompson	435-830-2016 801-965-4000	rthompson@tooeleco.org srwebmail@utah.gov	

Private Equipment Capabilities					
Type of Equipment	Contact Person	Phone Number	E-mail		
Tooele County Emergency	Bucky Whitehouse	435-833-8121	bwhitehouse@tcem.org		

Management		
	*	

Tooele County Assistant Fire	Name Dave Vickers	<b>Phone Number</b> 801-554-8984	E-mail dvickers@utah.gov
FMO Tooele County Assistant Fire	Dave Vickers	801-554-8984	dvickers@utah.gov
Warden	Lloyd Evans	385-285-6417	lloydevans@utah.gov
Tooele County Communications	Andy Tanner	435-833-1312	atanner@tcem.org
Tooele County Emergency Management	Bucky Whitehouse	435-833-8121	bwhitehouse@tcem.org
Wasatch Front Area Manager	Brian Trick	XXXXXXXX	b.trick@utah.gov

# **APPENDIX**

Appendix A: Participation Commitment Between Utah Division of Forestry, Fire and State Lands and North Tooele Fire District



Utah Division of Forestry, Fire and State Lands 1594 West North Temple, Suite 3520 P.O. Box 145703



Salt Lake City, UT 84114-5703

# FINANCIAL STATEMENT: WILDLAND FIRE PROGRAM PARTICIPATION COMMITMENT BETWEEN UTAH DIVISION OF FORESTRY, FIRE AND STATE LANDS

### and NORTH TOOELE FIRE DISTRICT

	Medium Risk Assessment	High Risk Assessment	Total
	\$14,685 \$18,390	\$33,075	
Division's 10 year fire suppression cost average	\$15,544		
Less carry over balance from previous year:			
Plus amount not met from previous year(s):			
NOT A BILL. DO NOT PAY.	Participation Con	nmitment for 2018:	\$48,619

List below how the Participating Entity plans to meet the Participation Commitment total above. List the project, action or acquisition. Category (fuel mitigation, wildfire prevention, wildfire suppression capacity) Duration (how long will the project take to complete) Value this Year (estimated value to be claimed this year) All Projects-Actions or Acquisitions must be included in the approved Community Wildfire Preparedness Plan

Proposed Project, Action, or Acquisition	Category	Duration	Value this Year

Utah Division of Forestry, Fire and State Lands

# PARTICIPATION COMMITMENT ACTIONS For Local Governments



(Suggested actions, not a conclusive or final list. Other actions will be added as appropriate)

# WILDFIRE PREVENTION

Activities directed at reducing the number of human-caused fires. (Goal: Fire-Adapted Communities)

- · Costs of wildfire prevention campaigns
- Costs of wildfire mitigation educational materials (defensible space, firewise landscaping etc)
- Costs of implementing Ready, Set, GO! program
- Law enforcement patrols to enforce fire restrictions and/or burn permit violations
- Volunteer hours for meetings and events that promote, plan or implement CWPPs
- Costs of wildfire prevention media campaigns/ PSAs
- Costs of designing, producing and installing community awareness and/or wildfire prevention boards/displays

# **WILDFIRE MITIGATION (50% min)**

Actions taken to reduce or eliminate risks to persons, property or natural resources. (Goal: Resillient Landscapes)

- Costs of equipment and labor (including volunteer hours) used to reduce hazardous fuels in accordance with CWPP (i.e. fuel breaks, prescribed fire, timber harvests and certain activities that support grazing)
- Costs or volunteer value of equipment and labor toward ongoing maintenance of existing CWPP fuel reduction projects
- Volunteer hours toward removing hazardous fuels from community common areas identified in CWPPs
- Volunteer hours toward improving ingress/egress in community common areas identified in CWPPs
- Costs associated with community fuel reduction events (i.e. chipper days)
- Costs of vegetation management equipment

# WILDFIRE PREPAREDNESS (25% max.)

Activities that lead to a safe, efficient and capable wildfire suppression response (Goal: Strong Initial Attack Capability)

- Costs of improving wildland fire apparatus, communication or support
- Costs of improving or creating additional ingress/egress into Wildland Urban Interface (WUI) areas identified in CWPPs
- Costs of improving or increasing firefighter access to secondary water systems through hydrants, tanks or drafting sites
- Actual costs for providing wildfire suppression training to fire department and/or emergency management personnel
- Volunteer hours spent in training for wildland fire suppression
- Costs of wildland-specific Personal Protective Equipment (PPE)
- Costs of producing and installing road signs and address markers (including evacuation routes) as part of a CWPP
- · Costs of certifying bulldozer operators
- Costs associated with enforcement of WUI code
- Costs associated with installing/maintaining helicopter dip sites
- Costs of inspecting resident defensible space work to certify for individual tax incentives
- Costs of producing and/or updating city emergency response plans that address CWPPs
- Costs of land-use planning that support objectives of CWPPs
- Costs supporting the development of Community Wildfire Protection Plans (CWPPs)
- Costs associated with gaining "Firewise Community" recognition

### **Activities that DO NOT qualify:**

- Any activity funded by other state or state-administered federal funds
- · Any previously-matched prevention/preparedness
- Costs of state or federally-provided trainings.
- Costs of initial attack suppression of wildfires
- Costs of improving culinary water systems
- Costs to improve individual structures
- Costs of existing county employees or programs including weed departments

Appendix A:	Additional Comments	