

# TAHOE DONNER FORESTRY DEFENSIBLE SPACE UPDATE

BOARD OF DIRECTORS MEETING JUNE 22, 2018

# Presentation Outcomes

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Highlight the Association's commitment to provide resources towards reducing the fire hazard in the area and forest health management

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Provide further defensible space programs update

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Options to:

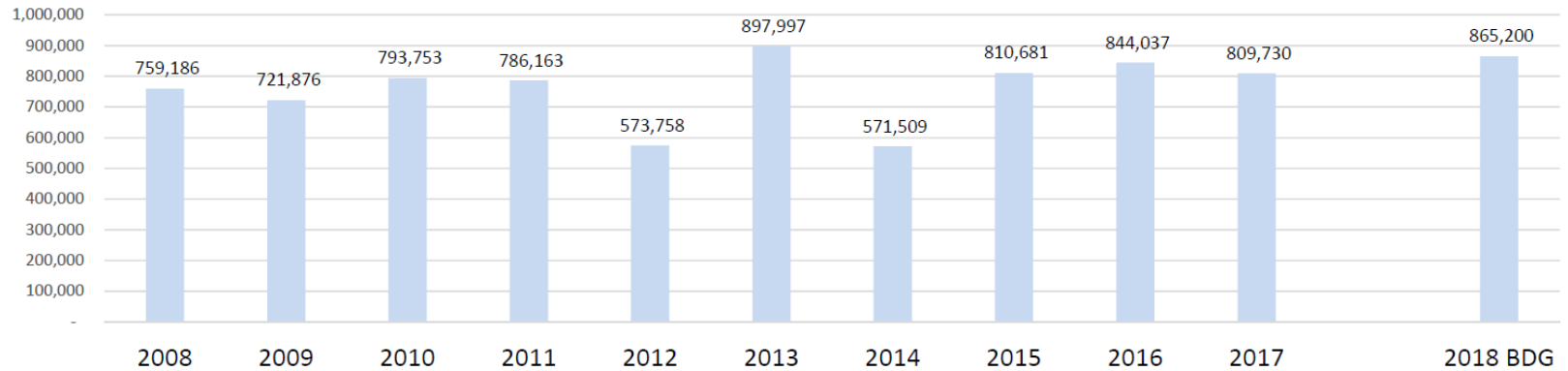
1. Catch up above and beyond existing progressive schedule
2. Address environmental pressures and year-2 of storm damage cleanup

# Tahoe Donner Forestry- Industry Leader

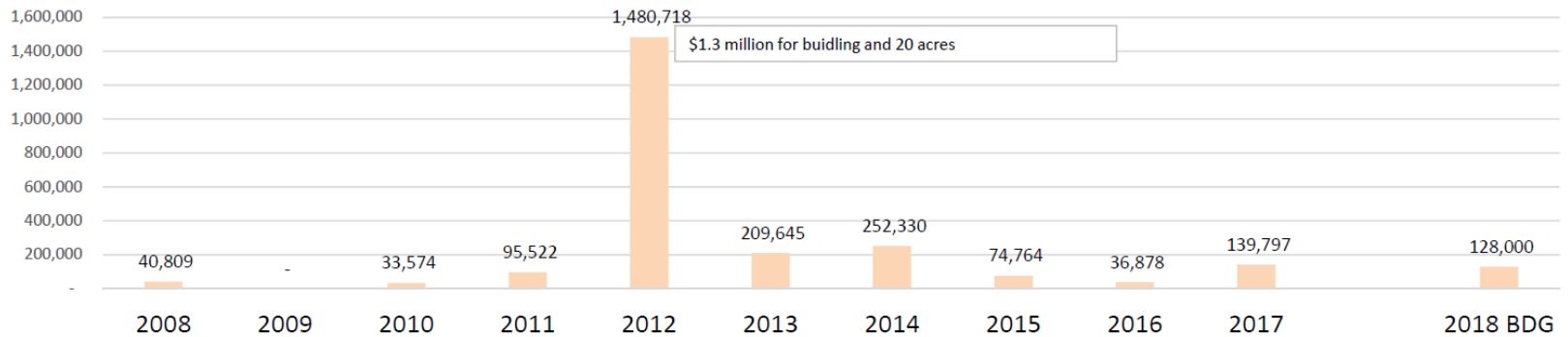
- Tahoe Donner Forestry department and Association are industry leaders in forest health and defensible space management
- Since 2009, Tahoe Donner has achieved the Fire Wise Community certification
- 2017 awarded the Fire Safe Council of Nevada County Firewise Community® of the Year
- Grant awards totaling \$815,686 since 1991
- Operational funding of \$10,000,000 over the last ten years; \$1,534 per property owner assessment over that period



Forestry NOR Loss by Year ---- 10 Year Actual Spend \$7.6 million



Forestry - Capital Funds Expenditures ---10 year Actual Spend \$2.4 Million



# Grant Awards- 8 year lookback

2010 – \$39,465	State Forest Assistance Grant, U.S. Forest Service, for fuel break construction (project on Bucknam Tract before TDA ownership – forestry department assisted the Fire Safe Council of Nevada County with implementation), for fuel break construction
2010 - \$76,280	Cooperative Fire Protection Grant, U.S. Forest Service, for fuel break construction
2012 – 2013, \$49,992	California Forest Improvement Program, CAL FIRE, for enhancement of forest productivity
2013 - \$49,722	California Forest Improvement Program, CAL FIRE, for fuel reduction (fuel break construction)
2016 – 2017, \$49,950	California Forest Improvement Program, CAL FIRE, for enhancement of forest productivity
2017 – 2019, \$112,782	CFIP (High Speed Rail) Covering 54 acres of site preparation, follow-up slash disposal and trees and planting. To be completed between 2017 and 2019. CFIP (Forest Resource Improvement Fund) or (Timber Regulation Forest Restoration Fund) Covering 45 acres of pre-commercial thinning, pruning and follow-up slash disposal. To be completed in 2018.

# Fire Hazard Reduction Management Objectives

- Return area to pre-settlement era vegetation conditions.
- Fire behavior simulators show that fire in mature brush will have a rate of spread up to 4 times that of younger vegetation. The same is true for unmanaged timber stands compared to areas that have been thinned with some control of the ground fuels. Comparing mature brush to managed timber stands the rate of spread is 32 times faster.
- Utilizing the U. S. Forest Service (SPLATS) Strategically Placed Landscape Treatments in areas of concern of wildfire reaching the developed portion.
- Utilizing the U. S. Forest Service GTR-220 technical report to manage property where wildfire typically will not reach the development.
- Utilize past fire history and patterns.
- Provide a safe transportation system for use by fire fighting agencies.



# Priority Areas

Create fuel reduction and forested zones within:

- Areas around homes (common areas).

- Southwestern border areas – prevailing winds out of the southwest.

- Areas of suitable topography and soil type.

- Areas along main access routes (system roads).



# Fire Hazard Reduction Zones

554 acres of  
reforestation/fuel breaks

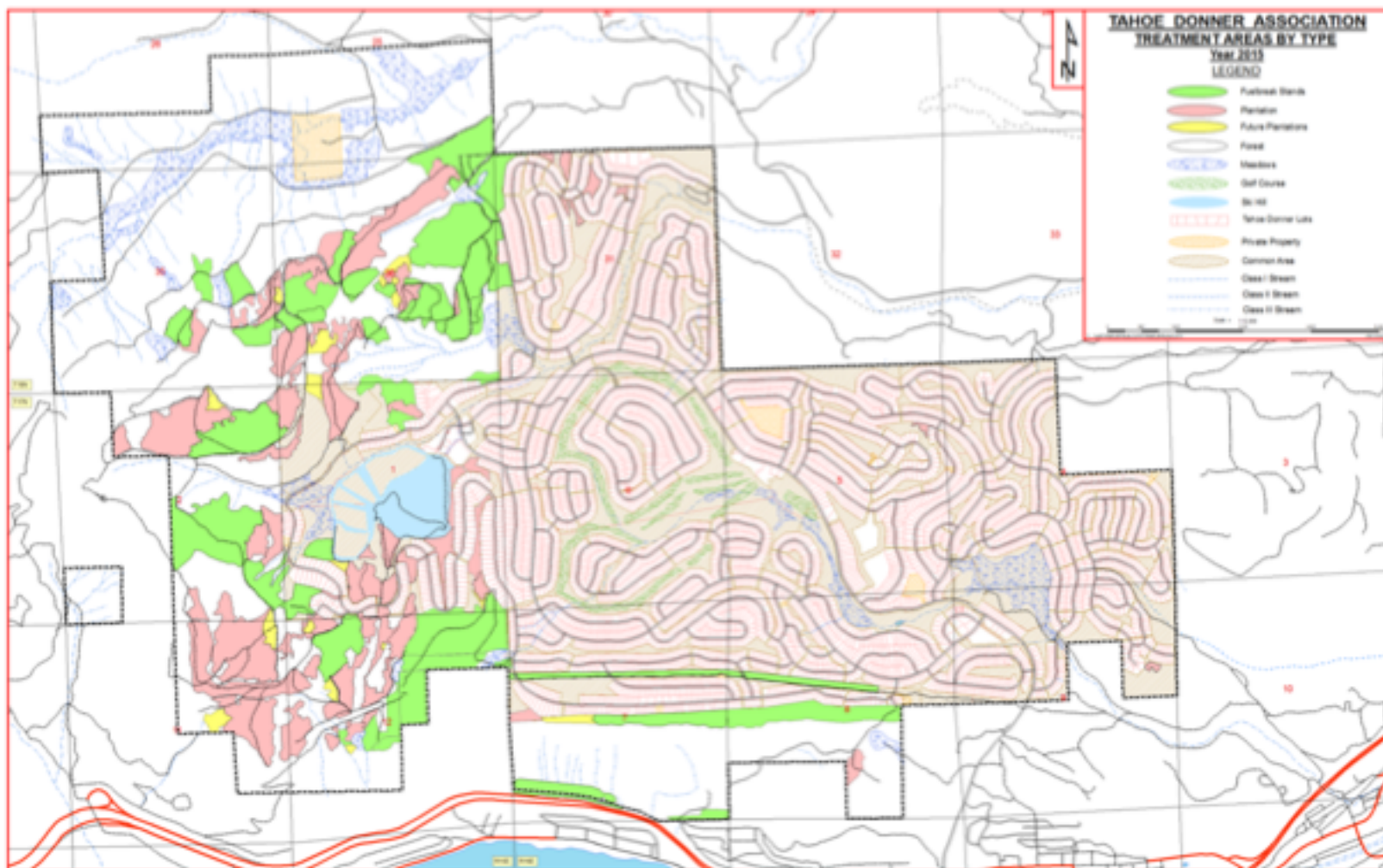
637 acres of fuel reduction  
zones

1,338 acres of common  
area with approximately  
two-thirds for fuel  
reduction

2,487 acres of “natural  
stands”







# Acres Treated 2012 - 2017

YEAR	PROPERTY TYPE	ACRES TREATED	REMARKS
2012	Common area	11.6	Drought started, forestry budget reduction due to poor winter revenue (Cost Recovery).
	Plantation/FB	67.7*	* 67.4 acres assisted by one CFIP grant. Higher # of dead trees started showing.
2013	Common area	12.8	South Skislope Way Fuel Break created, 58 acres.* 86.4 acres assisted by two differently
	Plantation/FB	186.7 *	funded CFIP grants and \$28,000 in additional funds approved by the Board of Directors.
2014	Common area	8.5	Forestry budget reduction due to poor winter revenue (Cost Recovery). Dead trees in
	Plantation/FB	82.8	common areas on the rise.
2015	Common area	116.2	Very dry year – little mastication due to fire danger.
	Plantation/FB	34.7	Removed 641 dead trees from association property.
2016	Common area	73.9	Contract labor costs doubled as bidding changed from a per/hour rate to a per/acre rate.
	Plantation/FB	143.5*	* 104.8 acres assisted by one CFIP grant.
2017	Common area	90.8	Board of Directors approved \$150,000 in additional funds, \$62,710 to storm damage and common area work.
	Plantation/FB	84.7	* 26 acres assisted by two CFIP grants.

The Forestry 5-year plan is budget based and for a “NORMAL” year.

The targets set in the Forestry 5-year plan are treatment of 60 acres of fuel break/plantation and 100.2 acres of common area.

# 2018 Defensible Space Program Update

Inspected 750 properties,  
all of Unit 11 and finishing  
Unit 4. Skiview Loop area,  
Chateau and Chalet and  
Swiss/Cristallina area.

Inspected 750 properties —  
144 passed / 606 failed

As of May 30:

202 properties in  
compliance



# Forest Health Concerns



# Drought Caused Tree Mortality

Average year	100 to 150 trees
2015	641 trees
2016	577 trees
2017	593 trees

Even after the two wet winters, forest pest management specialists agree that we will continue to see higher than normal tree mortality due to bark beetle activity.





# Winter 2016/2017 Storm Damage

Entering the second  
season of a  
predicted 3-year  
cleanup program

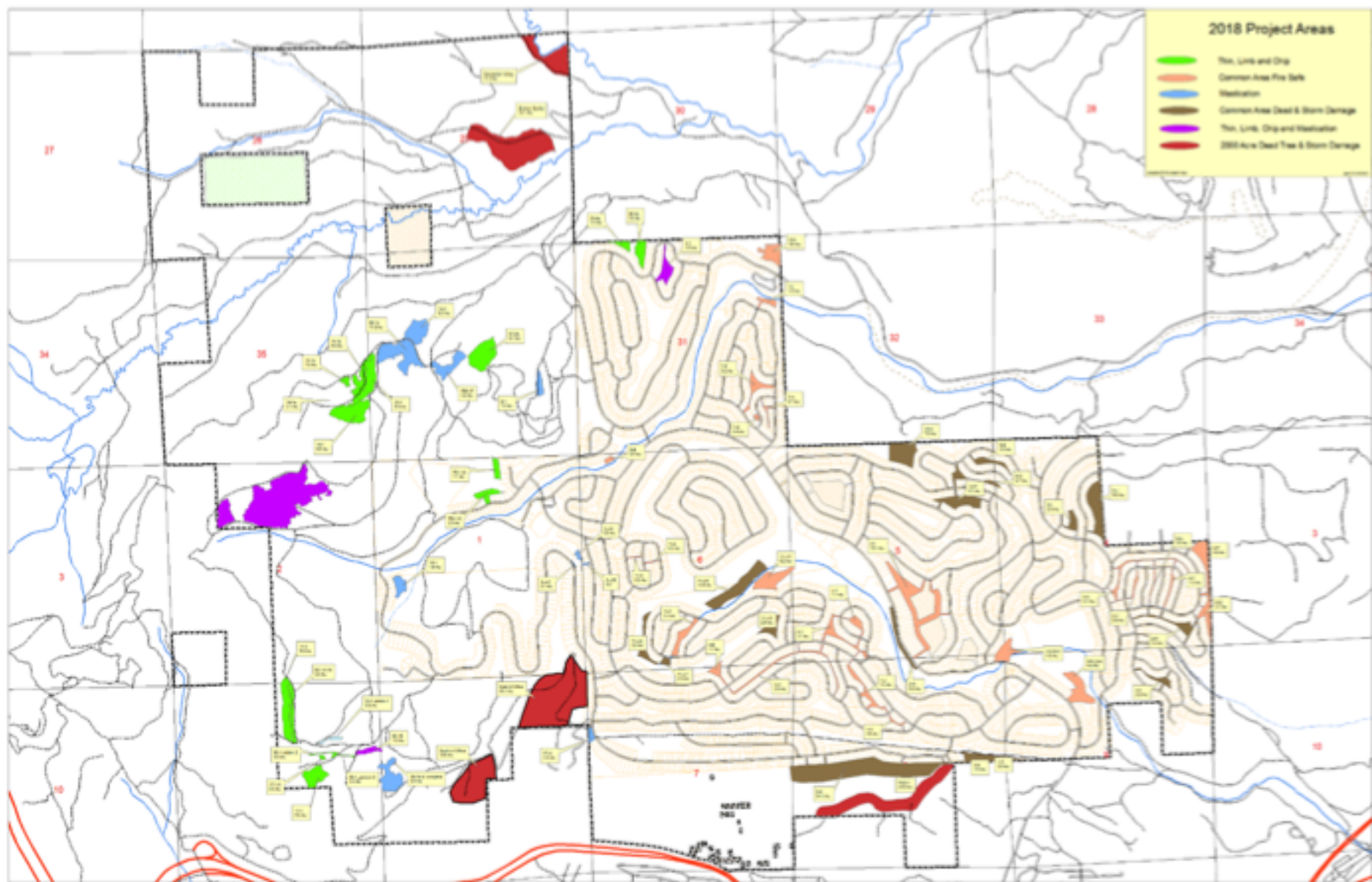


# Options for Accelerated Schedule and Addressing Environmental Pressures

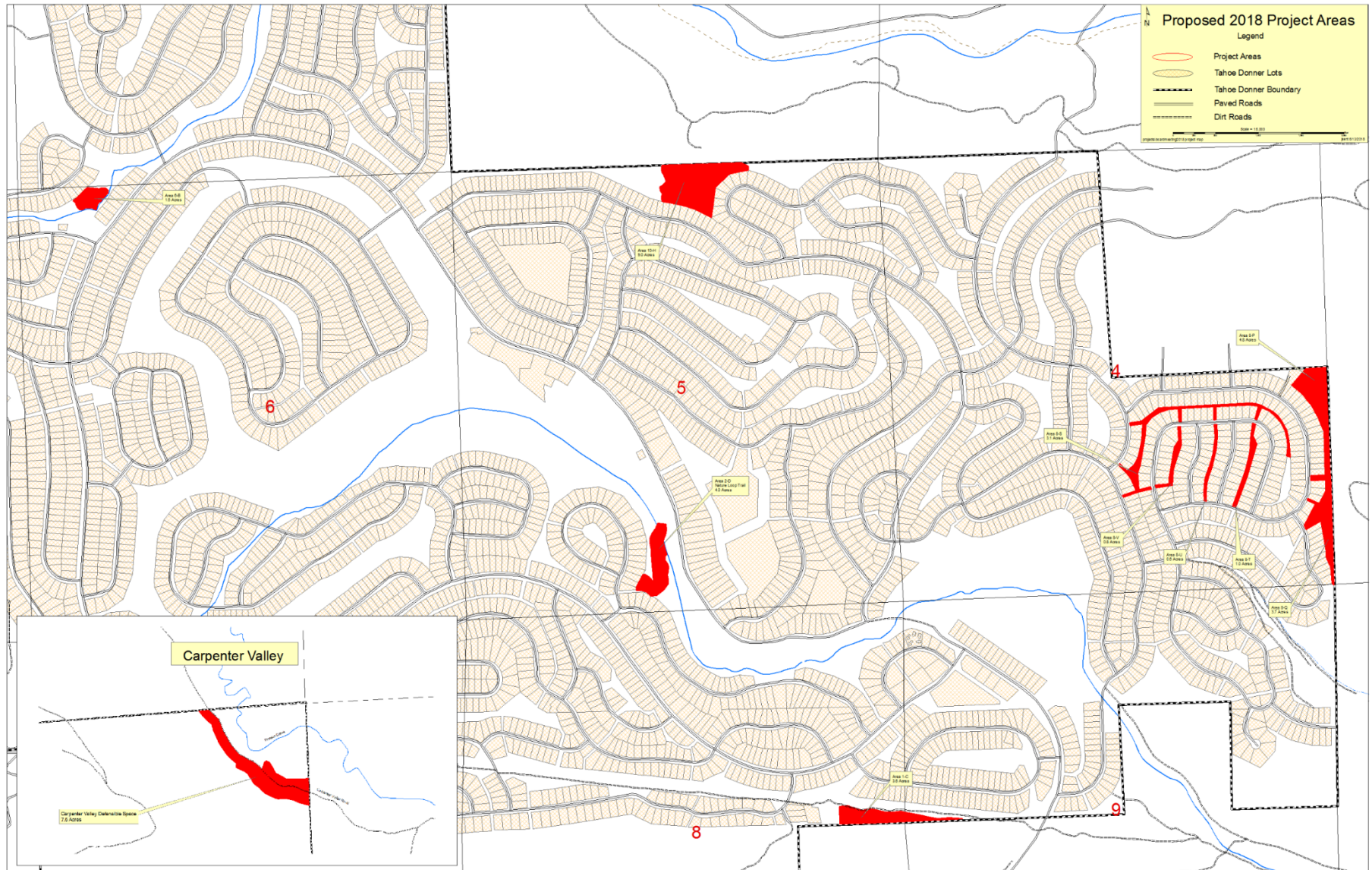
# Recommendation for 2018 Additional Project Areas and Additional Budget Funds Request

Project	Acres	Cost/Acre	Total Cost	Comments
2D nature loop Trail clean-up	4.0	\$8,000	\$32,000	fire safe and storm damage removal contract, 100' road, 50' trail
Carpenter Valley defensible space	7.5	\$3,500	\$26,000	fire safe and storm damage removal contract, 100 to 150' of road
10 H remove burn piles and logs	9.0		\$16,000	contract, estimate \$4,000 log removal, \$12,000 burn piles
TDA forestry common area 1C	3.6	\$2,200	\$7,920	fire safe and storm damage removal with TDA crew
TDA forestry common area 6B	1.6	\$10,000	\$16,000	2017, 7 TDA crew members completed a 1/2 acre area in one week
TDA forestry common area 8P	4.8	\$2,200	\$10,560	fire safe and storm damage removal with TDA crew
TDA forestry common area 8Q	3.7	\$2,200	\$8,140	fire safe and storm damage removal with TDA crew
TDA forestry common area 8S	3.1	\$4,000	\$12,400	fire safe and storm damage removal with TDA crew (poor access)
TDA forestry common area 8T	1.0	\$2,200	\$2,200	fire safe and storm damage removal with TDA crew
TDA forestry common area 8U	0.6	\$2,200	\$10,560	fire safe and storm damage removal with TDA crew
TDA forestry common area 8V	0.8	\$2,200	\$1,760	fire safe and storm damage removal with TDA crew
TOTAL RECOMMENDATION			\$143,540	





# Proposed Additional Projects Area Map





2019

- Continue renewed approach to addressing fire hazard in the area
- Management will provide options for more aggressive treatment during the 2019 budget process