

# 2023 Truckee Fire Community Wildfire Prevention Fund Annual Report



# 2023: Expanding Operations

- 2023 was the 2nd full year of operations by Truckee Fire's Wildfire Prevention Division.
- Initial programs such as residential green waste programs and defensible space education were expanded and saw an increase in resident participation.
- Community outreach increased with the update to the Community Wildfire Protection Plan and formation of many new FireWise communities.

## Table of Contents.

- Year in Review
- Enhancing Structure Survivability: Defensible Space & Home Hardening Inspections
- Expanding Residential Fuels Removal: Curbside Green Waste Pick-Up
- Community Wildfire Prevention Grants & Fuels Reduction Projects
- Safety Projects: Emergency Preparedness, Evacuation, and Early Fire Detection
- Community Wildfire Protection Plan
- 2024 Goals & Planning

# 2023 Highlights.

43%

increase in green waste removed  
compared to 2022

3

new firewise communities  
recognized

29,850+

hours invested by the community in  
defensible space

205

acres of forest land treated for  
fuel removal

31%

increase in properties evaluated for  
defensible space & home hardening

80%

homes in active Firewise Community

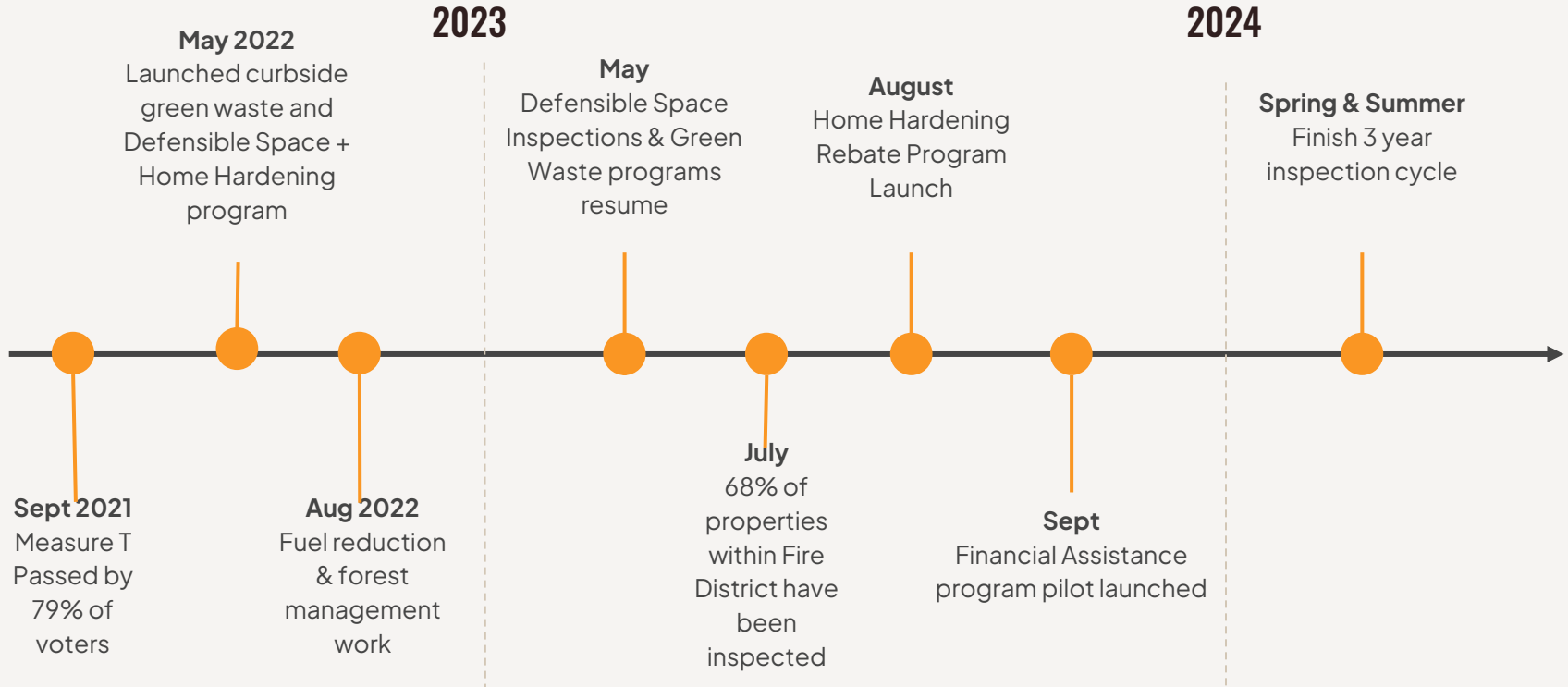
# Measure T: Residents invest in wildfire resilience for Truckee and Donner Summit wildland urban interface (WUI) areas.

On September 14, 2021, Measure T was approved by 79% of the voters. This 8-year special tax creates an annual \$3.8 million dollar Community Wildfire Prevention Fund.

All Measure T funds are managed by Truckee Fire and are dedicated to local fuel reduction & wildfire mitigation projects that aim to increase wildfire preparedness & resilience within the Fire District.



# Milestones.



# Truckee's Wildfire Prevention Team.



**Kevin McKechnie**  
Chief

*Support &  
Oversight*



Measure T  
Citizens  
Oversight  
Committee



**Eric Horntvedt**  
Wildfire Prevention  
Manager



**Dillon Sheedy**  
Asst. Wildfire Prevention  
Manager, Forester



**Maria Marsh**  
Wildfire Prevention  
Specialist



**Brittany Shelton-  
Dooley**  
Wildfire Prevention  
Administrative Assistant



4 Defensible Space  
Specialists (seasonal)



**We continue to build off early momentum. Investments are accelerating in home hardening and fuel reduction. The local engagement is inspiring. We still have a lot of work to adapt our community to wildfire, but I'm encouraged everyday by your efforts. Thank you for the partnership with our team to make the community safer.**

*Kevin McKechnie, Fire Chief*



# Defensible Space & Home Hardening Evaluation Program



# Defensible Space & Home Hardening Program.

Despite snow lingering late into the summer, inspectors were able to visit over **1,250 more homes** during the 2023 season than the previous season.

On a typical day, inspectors visit **14-17 homes**. The process begins from the public right-of-way, then the inspector approaches the front door of the home to leave a door hanger or connect with the resident to explain the inspection.

**99%** of residents that are home at time of inspection **grant full access** to property for a comprehensive inspection.

5,307

properties received a defensible space inspection in 2023

44,000 +

personalized recommendations were recorded

1,392 +

hours of community engagement

# Defensible Space Inspection Overview.

This program provides home and landscape evaluations for residents. By educating residents of their defensible space responsibilities, best practices for home hardening, and providing support, we can reduce structure ignitability and create fire adapted communities.

The program is designed to ensure every property within the Truckee Fire Protection District receives an in-person evaluation at least once every 3 years.



# Program Goals.

Every resident should have the opportunity to learn what they can do to make their home and community safer from the threat of wildfire.

Provide comprehensive, consistent, and accurate defensible space recommendations for residents.

Encourage residents to create defensible space, emphasizing local fire code and best practices.

Educate residents on steps to reduce home ignitions through the recommendations of Home Hardening retrofits.

Make residents aware of resources such as Green Waste pickup and Community Drop Off events.

Ensure that residents are signed up to CodeRED, Genasys Protect and/or Placer Alert for emergency notifications.

# HOA & Community Partnerships.

Several HOAs have their own defensible space program including Tahoe Donner, Martis Camp, Old Greenwood, Gray's Crossing, Sugar Bowl, and Lahontan.

The defensible space teams at **Tahoe Donner** and **Old Greenwood** adopted the same technology platform used by the Fire District. This partnership ensures high quality, consistent data and supports inspection consistency district-wide.



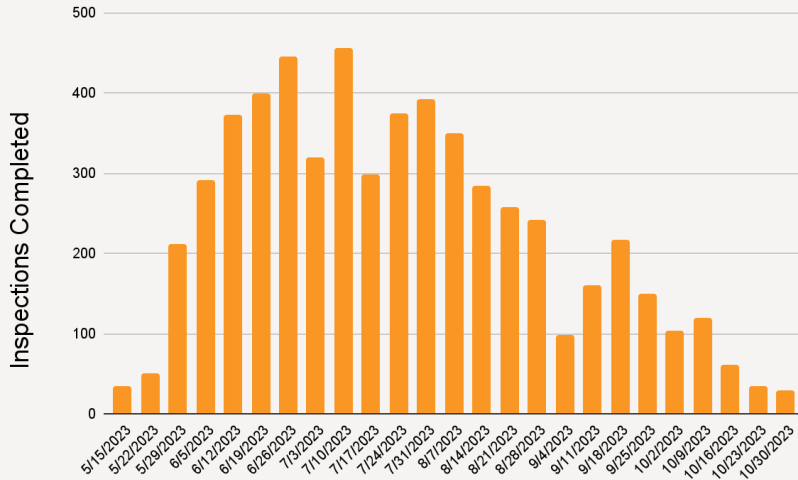
A “first blush” volunteer assessment program was piloted with **Serene Lakes Firewise** community.

In this program, local volunteers were trained by Truckee Fire personnel on key defensible space items visible from the public right-of-way. These volunteers were then able to cover their local streets and engage with their neighbors.



# Defensible Space Inspection Program Activity.

The program ramped up in May, and inspectors started in the lower elevations of Floriston and Glenshire where snow melts out earlier. Inspections continued through the end of September.



# Residents Are Investing in Wildfire Prevention!



**4.1M +**  
**dollars**



**47K +**  
**hours**

*\*Hours and financial investment were calculated based on resident reported cost (time and/or money) per discovery type as well as reported investments for green waste pickups.*

# Improving Year Over Year.



...of homes evaluated had some type of vegetation within 5' of their home down from 61% last year.

## Year to year comparisons:

**18%** of homes had trees over the structure versus 29% last year.

**12%** of homes had pine needles & tree litter on roofs and gutters versus 19% last year.

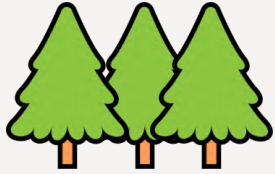
**7%** store firewood within 5' of their home versus 13% last year.

**Let's keep improving!**

*Truckee - We need everyone to create Zone 0 Defensible Space!*

# Tree Maintenance.

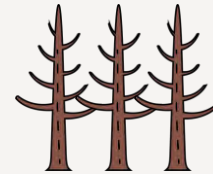
While progress is being made, there is still a significant amount of tree related work to accomplish within our community.



1 out of 4 homes inspected had a tree(s) that need spacing or limbing.



1 out of 5 homes had tree limb(s) overhanging the structure



1 out of 6.5 properties had a dead tree(s)



# Helping Residents Adapt to Wildfire.



Residents with a full access inspection went on to resolve items on their report.

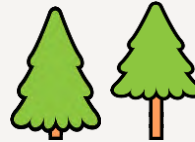
Top items resolved in 2023



Removed dead trees



Created additional spacing between trees & shrubs



Limbed trees up to 6' or more



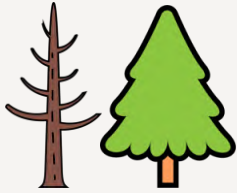
Cleared firewood and yard debris away from Zone 0

As Firewise communities, we need to encourage defensible space actions on every parcel.

# 2023 Highlights.

Residents reduced risk by taking these top actions to create defensible space.

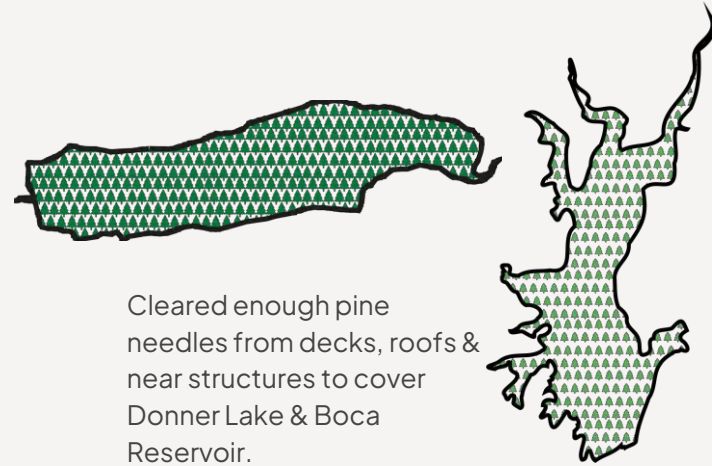
**Truckee Fire Protection District residents...**



Limbed & cleared enough trees to reach from Truckee to the state line.



Moved over 1400 pickup trucks worth of lumber and other combustibles away from structures.



Cleared enough pine needles from decks, roofs & near structures to cover Donner Lake & Boca Reservoir.

# Zone 0 Insights.

The program continues to prioritize no combustibles in Zone 0 (0' -5' from structure). This has been shown to have a significant impact in reducing structure ignitability while also preparing properties to comply with pending state laws, local ordinances, and insurance requirements.

**Zone 0 is the most important defensible space zone – make it your priority to create and maintain this area as well.**



Source: Living with Fire

## Top Zone 0 issues found in 2023:

1. Tree limbs overhang structure
2. Vegetation & shrubs
3. Leaf or needle litter on ground
4. Leaf or needle litter on roof or in gutters
5. Lumber or building materials

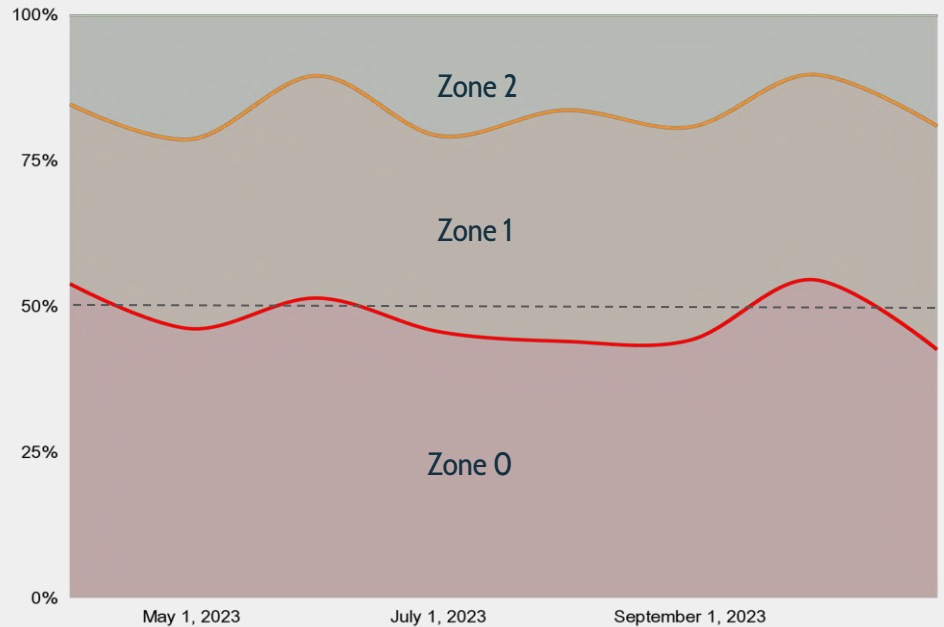
# Zone 0 Insights.

Almost 50% of all resolved issues in 2023 were in Zone 0.

## Top Zone 0 issues resolved in 2023:

1. Trees limbs overhang structure
2. Vegetation in Zone Zero
3. Leaf or needle litter on ground
4. Leaf litter or debris on roof or in gutters
5. Firewood

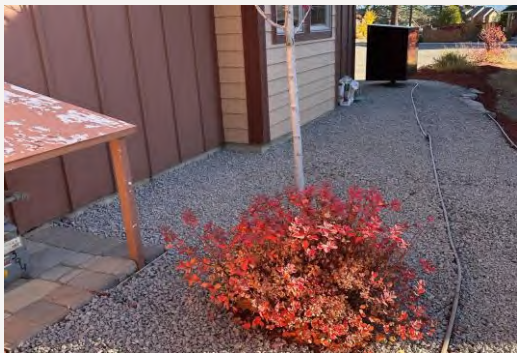
## Resolved items by zone



# Creating Defensible Space.

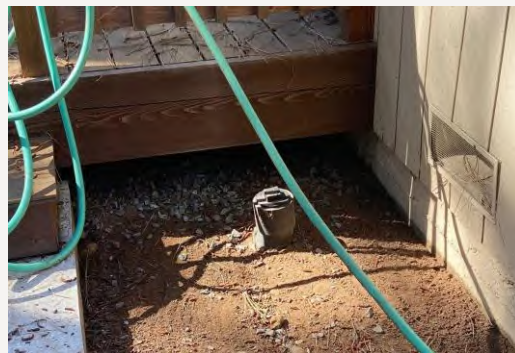
## Before and After:

Combustible mulch was replaced with gravel.



## Before and After:

Lumber under deck was removed and pine needles were cleared from around the structure.



# Creating Defensible Space.



**Before and After:**  
Combustible items including lumber, building materials, and propane tanks stored under the deck were removed.



**Before and After:**  
Tree limbs overhanging the roof were removed.

# Creating Defensible Space.

## Before and After:

Grasses were trimmed and pine needles were cleared from the roof.



## Before and After:

Vegetation overhanging deck and roof was cut back 10'.



# Home Hardening Priorities.

We continue to focus on educating homeowners on ways to harden their homes.

- Retrofitting vents to prevent ember entry remains a priority in our community.

Nearly half of homes in our community have softwood decks. These decks pose a risk, as decks can ignite and carry the flames to the structure.

## Top Home Hardening Vulnerabilities:

### Ember Entry Points



40% of homes have vents with openings greater than  $\frac{1}{8}$  inch.

17% of homes have exposed space under decks.

### Flame Pathways



45% of homes in have a softwood deck.

13% of homes have combustible fences attached to them.



# Home Hardening Rebate.

Launched in late September, this new program offers homeowners up to \$500 to help offset the cost of high priority home hardening upgrades.

**Applicants must have had a full access inspection to qualify.**

## Eligible Upgrades:

**Vents:** Installing ember resistant vents

**Tarps:** Covering exposed wood with approved fire resistant tarp

**Fences:** Replacing 5' of fencing closest to house with non-combustible materials

**Eaves:** Box in eaves to prevent ember entry

**Windows:** Replace single pane with multi-pane, tempered windows



Rebates may be available to help with 50% of the cost of this upgrade, up to \$500!

[Click here to learn more](#)

*Residents were notified in their online report of eligible items. This soft launch has enabled us to test the process and prepare to heavily promote in 2024.*

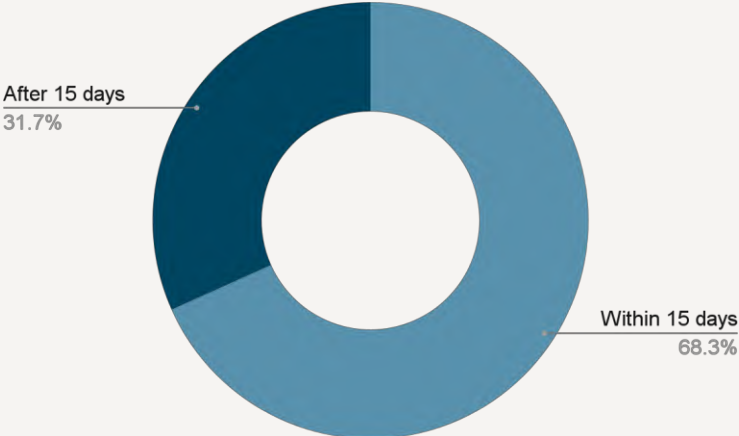
*Rebates awarded in 2023 were exclusively for **vent replacement** with an average reimbursement of **\$223**.*

# Resident Engagement.

With a high percentage of 2nd homes in the district, the majority of evaluations (65%) are conducted curbside when a resident isn't home. 8% residents not home at time of inspection requested a follow up.

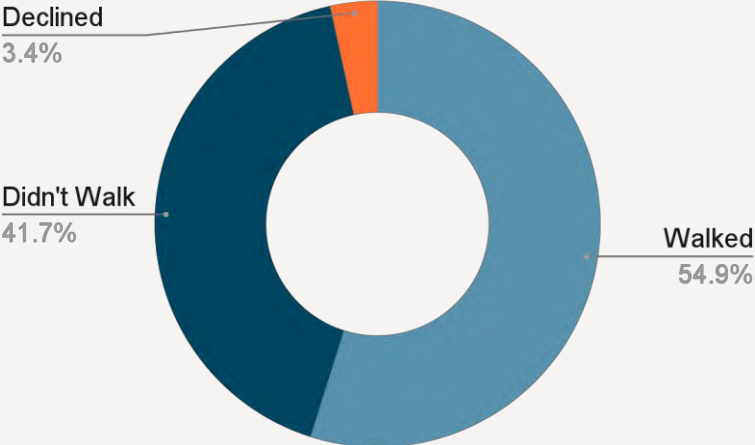
Residents are provided with a secure, customized online report following their evaluation.

46% of residents accessed their report.



55% of residents who were home at the time of inspection walked with the inspector.

Walking with an inspector provides opportunity for 1:1 defensible space and home hardening education.



# Awareness Drives Action.

When comparing resolution rates, we see a much higher rate after someone has received education\* on their specific issues.

Green waste “pile” sizes increase by 13% following an inspection.

\*“Education” refers to residents who accessed their report and/or walked with inspector.

## Residents who engage with inspectors are ...

**10** times more likely to resolve achievable Home Hardening vulnerabilities\*\*

**7** times more likely to resolve Defensible Space “High Severity” Issues.

**6** times more likely to resolve Defensible Space “Medium Severity” Issues.

\*\*“Achievable Home Hardening vulnerabilities” are items that don’t require a building permit or extensive remodeling. For example, replacing vents or replacing the first 5’ of wood fence with a noncombustible material.

# The Resident Experience.

## 5. Remove Dead Trees

Remove dead trees. Dead or dying trees are a fire and falling hazard, and should be removed immediately.

### Action Required - Please Correct

Truckee Fire Protection District Defensible Space Ordinance 02-2012; California Public Resources Code 4291

Images Map



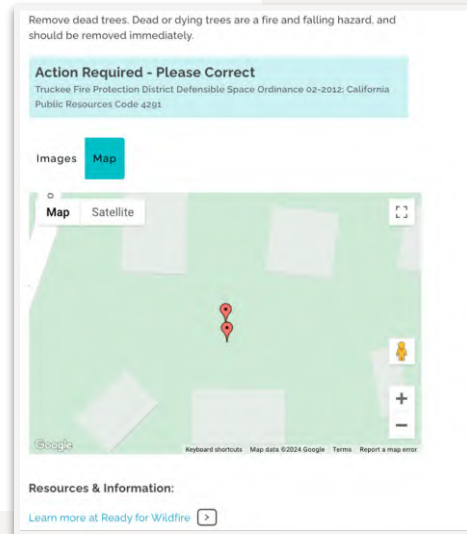
### Inspector Notes:

Remove all dead trees on property.

### Resources & Information:

[Learn more at Ready for Wildfire](#) >

Each inspection produces a customized report that describes requirements and recommendations for the resident. This includes a map showing the location of the issues, and photos to help identify them.



# Program Operations.

Truckee Fire personnel continues to work closely with their software partner, Fire Aside to improve user experience.

Fire Aside continues to improve efficiency for field evaluations, operational workflow tools, and support resident engagement.

## Notable highlights for 2023 include:

Deployment of financial assistance module to support rebate programs.

Expansion of online resident resolution tools.

### Curbside Inspection

This inspection was completed from the public roadway, driveway, and reasonable access path to front door. A Notice of Inspection was left on-site or mailed to the registered address.

### Homeowners: want to qualify for a \$500 rebate?



To be eligible for the [Harden Your Home Rebate](#), you must have a FULL ACCESS Inspection within the last 6 months. >> [Schedule your inspection now!](#)

### Correction Checklist

Please use this checklist to create an action plan to mitigate your property's wildfire risks and hazards. When you correct an issue, please click "Submit Resolution" to let us know it's complete. If possible, please use pictures and comments when submitting resolution.

The best way to protect your property from wildfire is a coupled-approach that includes Defensible Space & Home Hardening. Please prioritize defensible space first, and then consider the low cost home hardening recommendations.

3 Defensible Space Issues - Action Required - Please Correct

- [SUBMIT RESOLUTION](#) 1. Remove Shrubs to Create Adequate Spacing
- [SUBMIT RESOLUTION](#) 2. Remove Trees to Create Adequate Separation and Canopy Spacing
- [SUBMIT RESOLUTION](#) 3. Remove Dead Trees

# Local Partnerships and Piloting Programming.

In October, Truckee Fire partnered with a local non-profit, Sierra Watershed Education Partnerships (SWEP) and Tahoe Truckee Unified School District (TTUSD) to pilot a **Defensible Space Education & Assistance Program**.

Truckee Fire identified a residence in need of defensible space assistance that would qualify for access-based-assistance within the Donner Summit region.

SWEP and Truckee Fire facilitated a lesson for 2nd-5th graders at Donner Trail Elementary (DTE), educating students on fire science, wildfire prevention, defensible space, service learning, and the local residents they would be assisting.



# Defensible Space Stewardship Day.

Under the guidance of SWEP and the Truckee Fire Wildfire Prevention Team, the 5th grade class of DTE filled a 30-yard dumpster in only 45 minutes.

This service-learning experience allowed students to actively help their community become more resilient to wildfire, and inspired students to take this knowledge and experience home to share with their families.

Truckee Fire was happy to engage with community partners, get their hands dirty to assist residents in need, and teach local youth the importance of defensible space!

## Quotes from Students:

“It makes me feel more safe, like I am responsible; like I am making an act on fire and helping people that can’t do this themselves. It just makes me feel happy!” – Elin, DTE

“If we do this more often, it’ll definitely make our forests safer!” – Fletcher, DTE

**We look forward to continuing this partnership and facilitating more DSpace Stewardship Days in 2024!**



# 2024 Defensible Space & Home Hardening Planning.

## **Complete first round of inspections and start reinspections**

All properties in the District have been evaluated by the end of Summer 2024, at which point previously inspected properties will be re-inspected.

## **Increase resident engagement**

Focus on improving the resident engagement with customized reports.

## **Increase compliant properties**

Use the existing resale process and short-term rental ordinances to increase compliance rates.

**Goal:** Measure improvements and change since first inspection. Document for community risk reduction.

**Goal:** Increase number of residents accessing report to 60%.

**Goal:** Get all short-term rental and recently sold properties to have fully compliant defensible space inspections.





# CURBSIDE GREEN WASTE PROGRAM.



# Curbside Green Waste.

The Curbside Green Waste program is designed to increase defensible space compliance by giving residents access to resources to reduce vegetative fuel on their property without the barrier of transporting green waste to the dump.

## Program Goals:

Reduce residential fuel load community-wide with easy access to this Measure T-funded program

Deliver service to any property in the district within 2 weeks of reservation

Complement and expand existing neighborhood defensible space and Firewise programs

Efficiently increase participation and vegetation removed



# RFP Process.

A Request for Proposal (RFP) was publicly released February 2, 2023.

Contract Period: May 1, 2023 - November 1, 2023

Contractors were evaluated on the following criteria:

- License(s) & Qualification(s)
- Experience
- Equipment & Personnel
- Rate schedule
- Insurance

This competitive bid process resulted in the lowest qualified bidder being selected based on the hourly rate provided on the proposal.

Truckee Fire received bids from 4 contractors. The Board authorized the selection of Tahoe Truckee Sierra Disposal Co., Inc..

## \*TRUCKEE FIRE IS NOW ACCEPTING PROPOSALS FROM INTERESTED CONTRACTORS FOR THE 2023 CURBSIDE GREENWASTE PICK-UP PROGRAM!

Truckee Fire is requesting proposals from qualified and interested contractors and/or organizations to provide curbside greenwaste collection and disposal services in residential areas across our 125 square mile Fire District for the 2023 season. Last year contractors serviced nearly 2,500 piles equating to approximately 9,000 cubic yards of loose greenwaste removed. For 2023 we are expecting residential defensible space efforts to produce 3,000+ piles.

All Proposals must be sealed and delivered enclosed in any opaque sealed envelope marked "Proposal for Truckee Fire Greenwaste Services". Proposals may be hand delivered to the administration office located at 10049 Donner Pass Rd Truckee, CA, 96161, or mailed to P.O. Box 2768 Truckee, CA 96160. Any envelope sealed with tape shall be rejected. Failure to meet the specifications contained herein may be cause for the rejection of a proposal.

Any questions regarding this RFP must be submitted electronically to Wildfire Prevention Manager Eric Hornveth: [erichornveth@truckeefire.org](mailto:erichornveth@truckeefire.org) no later than 3:00PM February 21, 2023. Any questions received, and subsequent answers, may be made publicly available at the discretion of Truckee Fire if the information may be useful to all proposers, no later than February 28, 2023 on this web page. Deadline to submit proposals: March 6, 2023 3:00PM.



### 2023 Curbside Greenwaste Proposal Documents:

[2023 Curbside Greenwaste Request For Proposals](#)

[2023 Curbside Greenwaste Proposal Template - Form Fillable](#)

[DRAFT/EXAMPLE Curbside Greenwaste Contract \(Subject to Changes\)](#)



2023 Curbside Greenwaste Pick-up Service & Site

**GREEN WASTE CURBSIDE PICK-UP PROGRAM IS CLOSED FOR THE SEASON. CHECK BACK IN MAY 2023!**

# 2023 Curbside Green Waste Overview.

**12,174 cubic yards of flammable vegetation removed district-wide\***

44% increase in volume removed compared to last year.

Residents cited this program as the motivator to remove almost 8,801 cubic yards.

**2,388 piles serviced district-wide\***

66% of participants were new to the program.

**Driving Resident Investment**

For every \$100 spent on this program, the community invested \$129 and 4.4 hours.

**Green Waste Dumpster Support**

Truckee Fire offered \$75 rebates for 6-yard green waste dumpsters, and processed 327 Rebates.



*\*Excludes Tahoe Donner, Martis Camp, & Lahontan communities which ran their own programs*

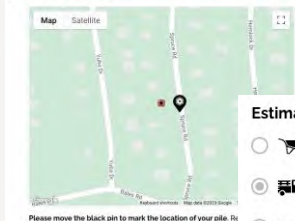
# Program Offerings.



## Year 2

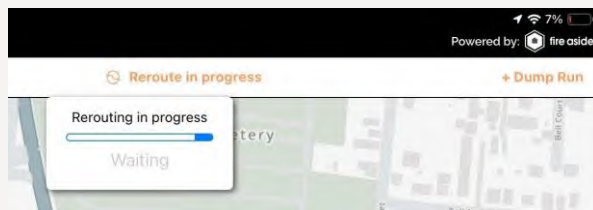
2023 built on lessons learned from the previous year. A notable change was the elimination of chipping and exclusive use of a pick-up service. This change created efficiency per stop and ability to handle larger pile sizes, and remove more green waste at a lower expense.

Locate your pile on the map  
Required - Assist our crews in finding your pile. Use the map below to indicate the most accurate location of your pile. If you have multiple piles, please tell us above in the Notes.  
Important! Please review the requirements for where to place your pile. Piles that do not fall these rules will not be picked up.



### Estimate the size of your pile

- Wheel barrow or 2?
- Pickup truck?
- Dump truck?



## Registration

Registration opened in early May with notable updates to the system for residents. New features included the ability to show the location of their pile and estimate the size. This information helps crews and improves service time.

## Service Level

The goal is to meet all resident requests within 2 weeks of the request date. The crew routing was optimized daily to maximize stops per day and minimize miles driven.

## Hazardous Vegetation

Residents were allowed unlimited registrations throughout the season to align with their needs. With pre-approval for extra-large pile sizes, this helped the community remove flammable vegetation from around their homes.

# Removing Fuel from the Community: **Pick-up & Haul Away.**



# 2023 Goals & Results.

**Goal:** Eliminate any address from requesting pickup service when it is not available to them due to tight and narrow road limitations or known low-hanging overhead utilities.

**Goal:** Reduce customer service inquiries looking for updates on timing of their chipping, minimize time from request to service as possible.

**Goal:** Increase collection of pine needles & debris from community through education of options to dispose of this material- reducing individual dump trips and ground fuels.

**Goal:** Improve satisfaction scores from 4.8 to 4.9, meet all requests within the 14-day window throughout the season.

## Successful

Documented locations from 2022, worked with TTSD to utilize smaller equipment when grapple could not access.  
Software partner added ability for resident to locate piles off property at time of reservation.

## Successful

Improved timing from reservation to pickup by 35%.  
Average reservation to pick-up time was 7 days.  
96% of reservations had no customer service inquiries.

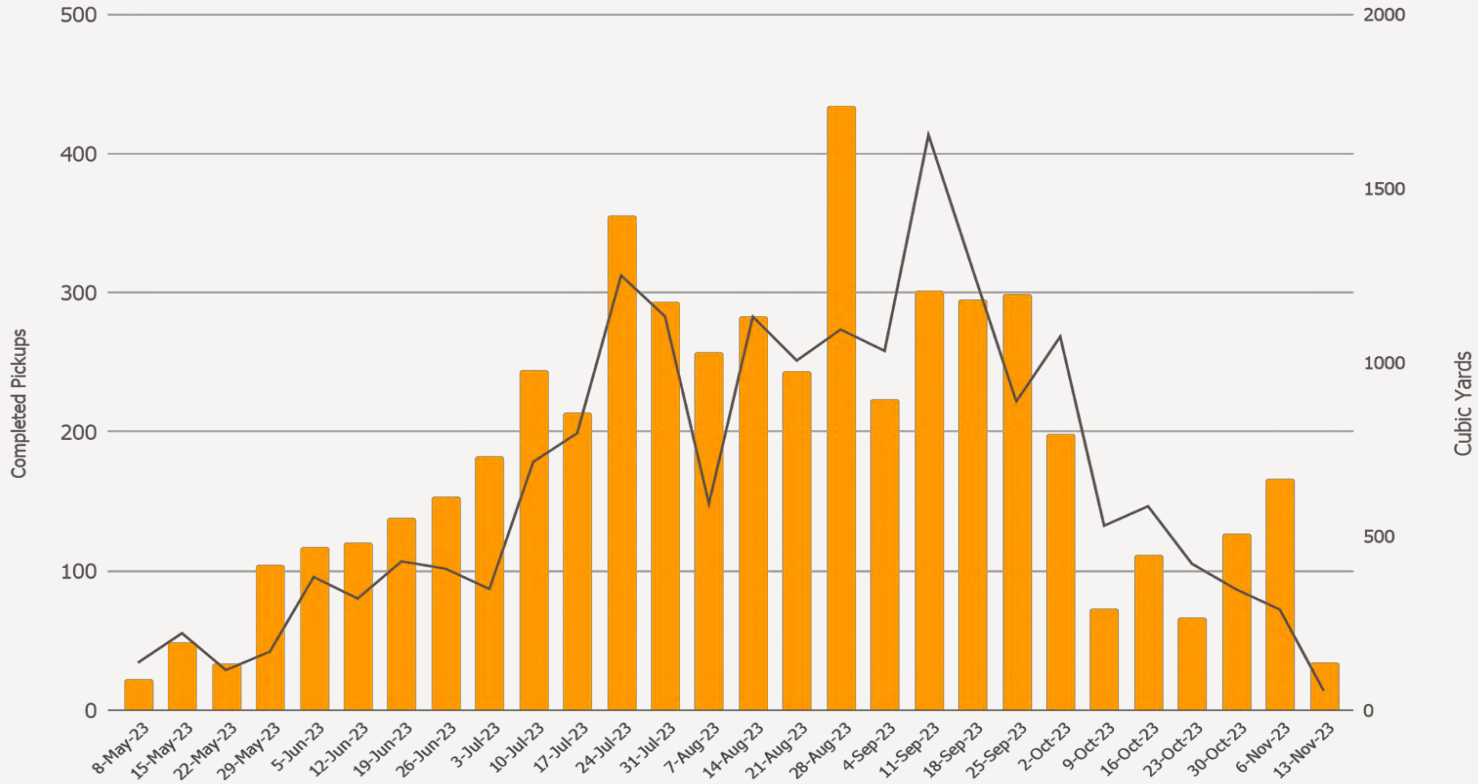
## Ongoing

Educated on availability of Town yard waste carts, free self-haul, 6-yard dumpster rebate, firewise dumpsters, and free drop-off events.  
Pine needles are an annual maintenance item that needs to be addressed by our residents.

## Successful

Achieved 4.9 out of 5.0!  
Successfully picked up piles within 7 days on average!

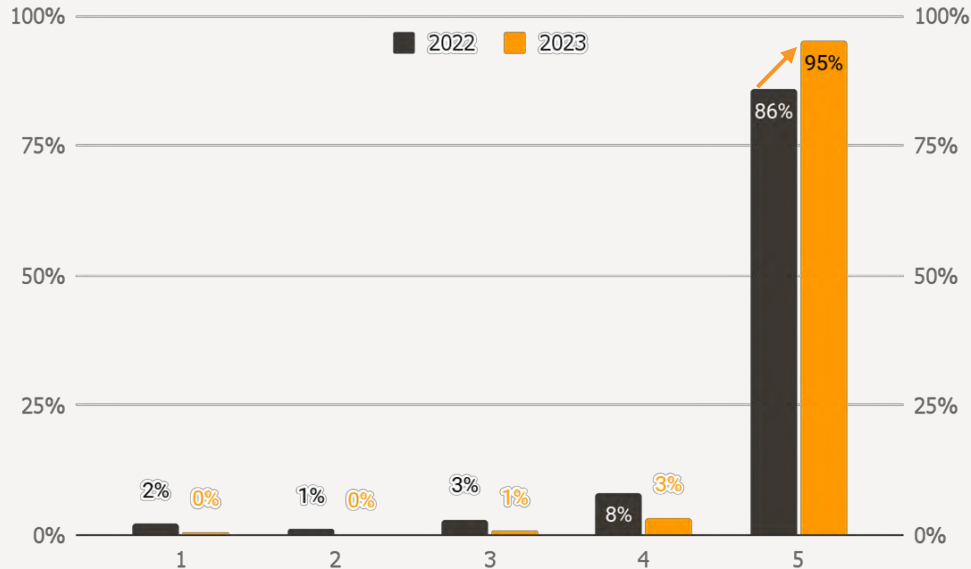
# 2023 Curbside Green Waste Activity Summary.





# Resident Satisfaction Increases by 9%.

2023 overall rating of **4.9** out of **5.0**



*This is a great program, very easy to register, the pickups were efficient, the crew very good at cleaning all up....* -**Glenshire**

*Best community program in Truckee -*  
**Downtown**

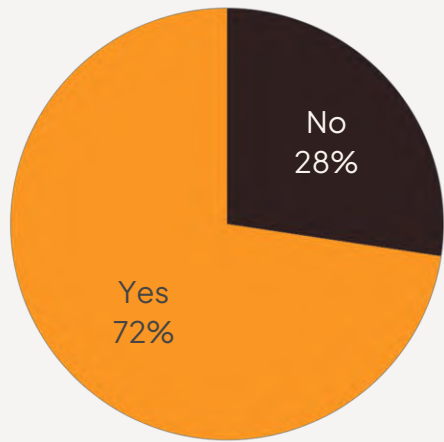


*This was rad* -**Sierra Meadows**

# Motivating the Community.

Curbside program reservation system opened in May and closed in late October. A final canvas was made, and any remaining piles were picked up in early November.

Did the green waste program cause you to remove the vegetation?\*



*“Great program. Motivates you to actively remove green waste and get it to the curbside pile.”*  
**-Prosser Lakeview**

# Reservation Pickup Performance.

## 7 days

Average time from reservation to pick up (improvement from 11 days in 2022).

## 78%

Of reservations were picked up within 2 weeks.

Time from reservation to pick up year over year.

	2023	2022
1 week	33%	34%
2 weeks	45%	39%
3 weeks	19%	18%
4 weeks	3%	9%

# Green Waste Pickup Program Reduced the Impact of Individual Dump Runs.

51% of participants indicated the program prevented individual trips to the dump. By eliminating these trips with the efficiency of a large scale trucks, we estimate this **eliminated\* over 28,000 kg of CO<sub>2</sub>.**

This is equivalent to the amount of CO<sub>2</sub> that 3 passenger vehicles\*\* produce in a year.

\*Source: EPA.gov . Average consumption of gasoline powered passenger vehicle

\*\*Source EPA.gov - GHG emissions from a typical passenger vehicle



*This was really tremendous. It saved a lot of time, effort and was safer than me using a chipper myself. Also since I didn't have to burn the the material, we saved the air. -*

**Prosser Heights**

# Firewise Activity.


With the addition of more Firewise communities in the District, 80% of participation (up from 60% last year) came from recognized FireWise communities.

	Pickups	Cubic Yards
Coyote Run*	2	9
Donner Crest Owners Assoc.	3	10
ECBRT Summit	27	182
Floriston	7	35
Glenshire Devonshire	528	1823
Grays Crossing	13	51
Juniper Hill	23	254
Kingvale	13	242
Martis Peak	3	29

Excludes Tahoe Donner, Lahontan & Martis Camp FW communities.

\*Indicates Firewise application is pending

*continued*

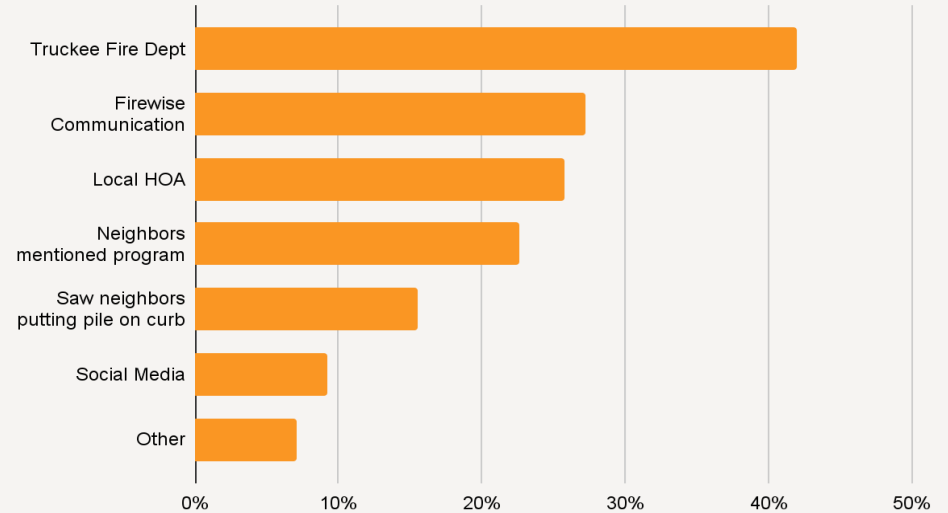
	Pickups	Cubic Yards
Old Greenwood	13	60
Pannonia Ranchos*	46	532
Pine Forest	4	14
PlaVada	82	290
Ponderosa Palisades	26	121
Ponderosa Ranchos	70	375
Prosser Lakeview	148	777
Schaffer's Mill	7	31
 <b>Serene Lakes</b>	<b>682</b>	<b>3447</b>
Sierra Meadows	141	634
Towle Mtn	1	5
West End Donner Lake	81	391

# Program Awareness.

We continue to focus on increasing awareness of the green waste program. Compared to 2022, local awareness (neighbors, HOA) increased the most.



Where did you learn about the program?



Respondents can select as many as apply.

# Resident Feedback.

28% of residents filled out the post pick-up survey.

## Pickup Timing Feedback

*“It would have been nice to have an exact date of service. The website says it will be two weeks, but it came within a few days. This would be fine, but we don’t have a good staging area for our pile because of a drainage ditch in front of our house. We missed our first appointment, because we would have had to put the pile in our driveway and were hoping to wait until we were closer to our date to make the pile. Luckily our neighbor allowed us to use his property for the second appointment. Still very grateful to have this great free service!”*

*“If you can offer less than two week window for pickup would be great. My driveway was blocked with green waste until pickup. Thx.”*

*“It would be nice to know which day you are coming to pickup. The eta is very ambiguous”*

*“Receiving a text the day of pickup would be helpful”*

## Summary of requests for improvements for future pickups

- 1) More precise day (and even time) of pickup vs. 2 week window. (consistent with 2022 feedback)
- 2) Remove additional material, especially pine needles!

## Feedback Requesting Pick Up of other flammable material

*“Hoping the program is here to stay! One improvement would be to help dispose of bigger logs/ petrified wood that can’t be burned.”*

*“Take pine needles”*

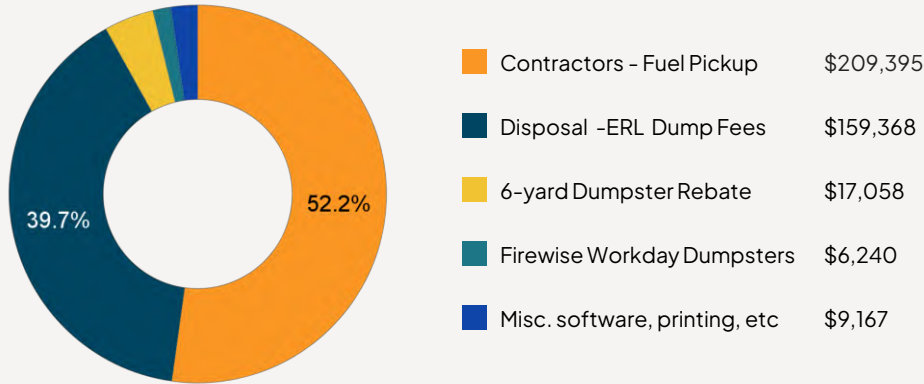
*“Please add pine needle trash bins”*

*“Arrange for pick up of Pine Needles”*

# Program Budget.

The green waste program represented an excellent return on taxpayer dollars, delivering the desired results in an efficient and cost-effective manner.

Total green waste program expenditures during the 2023 fire season totaled **\$401,228**.



\*TFPD staff time for program administration & management was not included. These are direct program implementation costs only. These costs represent the program costs for the 2023 fire season and span two FY budgets.

*“Well run program. I appreciate getting something measurable for the money I pay into Measure T”* -**Armstrong Tract**

*I’ve needed this program so badly. Thank you.* -**Cisco Grove**

*“It motivates me to do more on my property.”* -**Sierra Meadows**



# Public Feedback.

"It's brilliant please keep it going next season. Thank for all your help."

- Prosser Lakeview Resident

"Excellent program! Made it easy to clear more brush and trees."

- Glenshire Resident

"It was great and greatly appreciated. I encouraged my neighbors to do some cleanup too."

- Serene Lakes Resident

"Simple and effective! Encouraged us to do more to create defensible space, resulting in more fire-resistant neighborhood."

- Donner Lake Resident

"I can't imagine this being any better than it is. Thank you."

- Serene Lakes Resident

"We've scheduled 4 pickups and are just really impressed. Piles are picked up within a few days and crews have been really great."

-Kingvale Resident

# 2024 Green Waste Planning.

## **Pick-up only service is effective & efficient**

2023 was a trial of offering only pick-up service (no chipping).

## **Pine Needles**

Continue to educate the community and increase awareness of pine needle disposal options.

## **Maintain Customer Service excellence**

Build on 2023 results to continue delivering excellent service for the community. Shoot for 5 stars!

## **Disposal costs and biomass utilization**

A large cost in the program is disposal fees. Explore opportunities for other biomass utilization options.

**Goal:** Secure a professional contractor to provide green waste services for a 3-year period (2024-2026). Work with selected contractor to map known hard-to-service areas and increase efficiencies.

**Goal:** Partner with Firewise Community Workdays to promote community dumpsters for pine needles and other green waste. Reduce pine needles as an unmet need from feedback surveys.

**Goal: Aim** for 5 stars satisfaction score and continue improvement on the pickup timing and communication to residents throughout the season.

**Goal:** Create flexibility and control over biomass disposal methods to allow for cost-effective biomass utilization pilot ideas and options.

An aerial photograph of a mountainous landscape. A large, dark blue lake is the central focus, surrounded by dense evergreen forests. A winding road or path curves around the lake and through the mountains. In the foreground, there are several smaller ponds and a cleared area with some buildings. The background shows more mountain ranges under a clear sky.

**Community Wildfire Prevention Grants  
&  
Fuels Projects.**

# Measure T Community Wildfire Prevention Grants.

Truckee Fire released the CWPG program in Spring 2023 to landowners and land managers in our District.

\$1 million dollars was budgeted for this program in 2023.

This new program makes competitive funding available to support implementation of a suite of project activities, effectively increasing capacity, pace, and scale through an all-hands-on-deck approach to community risk reduction.

Major project types that are eligible for funding include:

- **Forest Fuels Reduction**
  - Catch-all for vegetation management projects that remove hazardous fuels and reduce the risk of wildfire
- **Forest Health & Resiliency**
  - Investing in multi-objective projects that promote forest and wildfire resilience
- **Community Wildfire Preparedness**
  - Community & critical infrastructure defensible space, structure hardening, Firewise efforts, early fire detection, evacuation planning & improvement
- **Wildfire Prevention Education**
  - Outreach, education, public relations, etc.

# Projects Awarded in 2023.

## Forest Fuel Reduction

- West End Donner Lake Community Wildfire Prevention Project
  - 25 acre fuel reduction project on HOA-owned open space
- Northwest End Royal Gorge Fuel Reduction
  - 130 acre commercial timber harvest in the Royal Gorge area (west of Serene Lakes)
- SBSTA Forest Fuels Reduction
  - 12 acre fuel reduction project adjacent to the Sugar Bowl Ski Team & Academy
- Tahoe Donner Forestry mastication Equipment
  - Purchase new forestry mastication equipment for TD forestry, Plan to treat 705 acres with equipment over next 5 years.

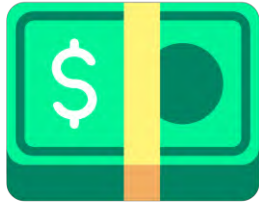
## Wildfire Preparedness

- Kingvale Plavada Community Wildfire Preparedness
  - Improve emergency response and ingress/egress in the Kingvale and Plavada communities through installation of reflective street, address, bridge and emergency egress signs.
- Fire Detection and Confirmation Camera- Serene Lakes
  - Purchase and install one Alert Wildfire Camera at the top of Soda Springs Ski Resort.



**Projects Completed Calendar Year 2023.**

# 2023 Cost Breakdown - Forestry and Fuels Projects.



Measure T funding  
expended in 2023  
= **\$1,030,519.59**



Matching  
contributions from  
grantees/partners  
in 2023 =  
**\$397,191.88**



Total expenditures for  
Forest and Fuels  
Projects  
in 2023 =  
**\$1,427,711.47**

# Calendar Year 2023 Summary.

Acres Treated with Measure T funding in  
2023: 205 acres

Total acres treated in 2023: 296 acres

Total acres treated to date (2022-2023)  
with Measure T funding: 276 acres

Total acres treated to date (2022-2023)  
(all funding sources): 900 acres



# **Pine Forest/Old Greenwood Fuels Reduction.**

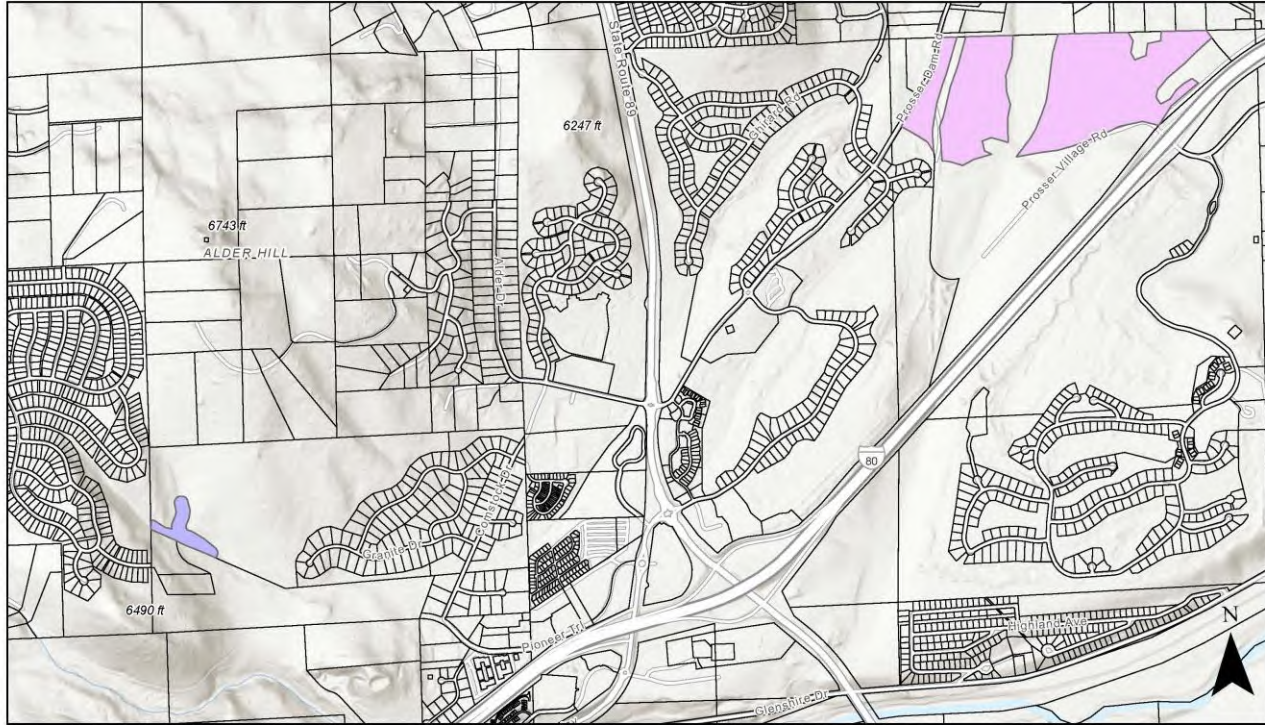


# Community Wildfire Prevention Grants (Measure T).

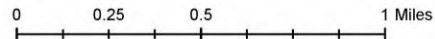
## Pine Forest Fuels Reduction Project (#01-2022)

<b>Grantor</b>	Truckee Fire Protection District		
<b>Grantee:</b>	Truckee Donner Land Trust		
<b>Project Cost:</b>	\$252,907.05	Source:	Truckee Fire – Measure T
<b>Match Amount:</b>	\$0.00	Match Source:	
<b>Project area:</b>	Pine Forest and "Old Greenwood" properties owned by the Truckee Donner Land Trust		
<b>Purpose:</b>	Reduce Hazardous fuel accumulations and improve forest health and resilience within the WUI and adjacent to private property		
<b>Deliverables:</b>	Mechanical thinning, mastication, and biomass removal on at least 70 acres		
<b>Permitting strategy:</b>	Forest Fire Prevention Exemption (14 CCR 1038.3), Filed by RPF Danielle Bradfield (Consulting Forester for TDLT)		
<b>Project Status:</b>	Project is fully completed and closed out as of June 30, 2023. Total of 77 acres treated.		

# Pine Forest/Old Greenwood Fuels Reduction



Measure T Grant #01-2022





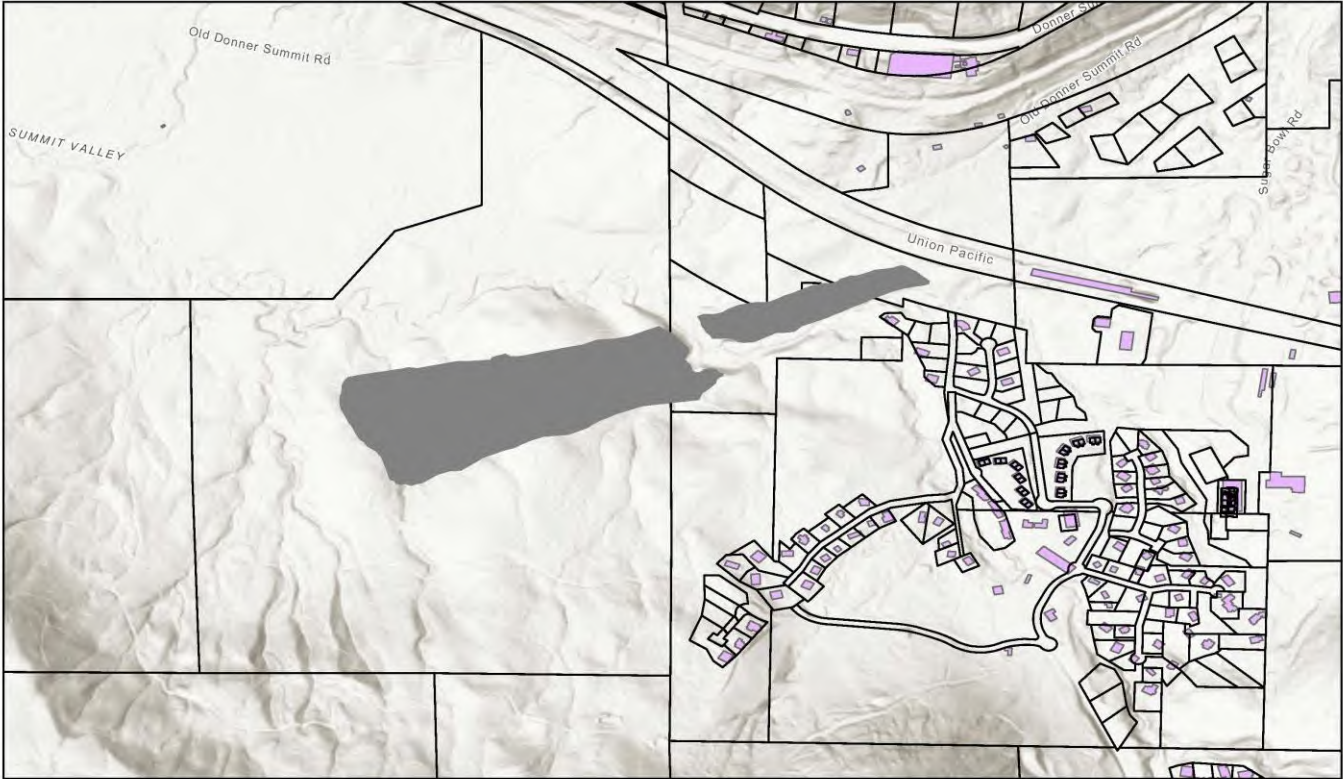
# **Sugar Bowl Forestry and Fire Fuels Reduction.**

# Community Wildfire Prevention Grants (Measure T).

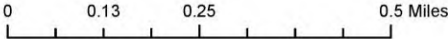
## Sugar Bowl Forestry and Fire Fuels Reduction Project (#03-2022)

<b>Grantor</b>	Truckee Fire Protection District		
<b>Grantee:</b>	Sugar Bowl Corporation		
<b>Project Cost:</b>	\$110,400.00		Source: Truckee Fire – Measure T
<b>Match Amount:</b>	\$331,200.00		Match Source: Sugar Bowl Corporation
<b>Project area:</b>	Private property owned by Sugar Bowl Corp., North of developed residential areas and adjacent to the PG&E right of way.		
<b>Purpose:</b>	Reduce forest density and remove dead hazard trees to improve forest health and reduce wildfire hazards adjacent to developed properties		
<b>Deliverables:</b>	With Measure T funding, Treat an additional 32 acres to build upon completed and ongoing forest management work in the area. Treatments include manual and mechanical thinning, mastication, and biomass removal.		
<b>Permitting strategy:</b>	10% Dead and Dying Timber Harvest Plan exemption (14 CCR1038(b))		
<b>Project Status:</b>	Project is fully completed and closed out as of November 1, 2023. <b>Total of 32 acres treated using measure T funding.</b> Sugar bowl completed an additional 64 acres of treatments with matching contributions. Total 96 acres treated.		

# Sugar Bowl Grant Project Accomplishments



- TFPD Accomplishments
- Structures



# Additional Sugar Bowl Fuels Reduction Photos.



# West End Donner Lake Community Wildfire Prevention Project.



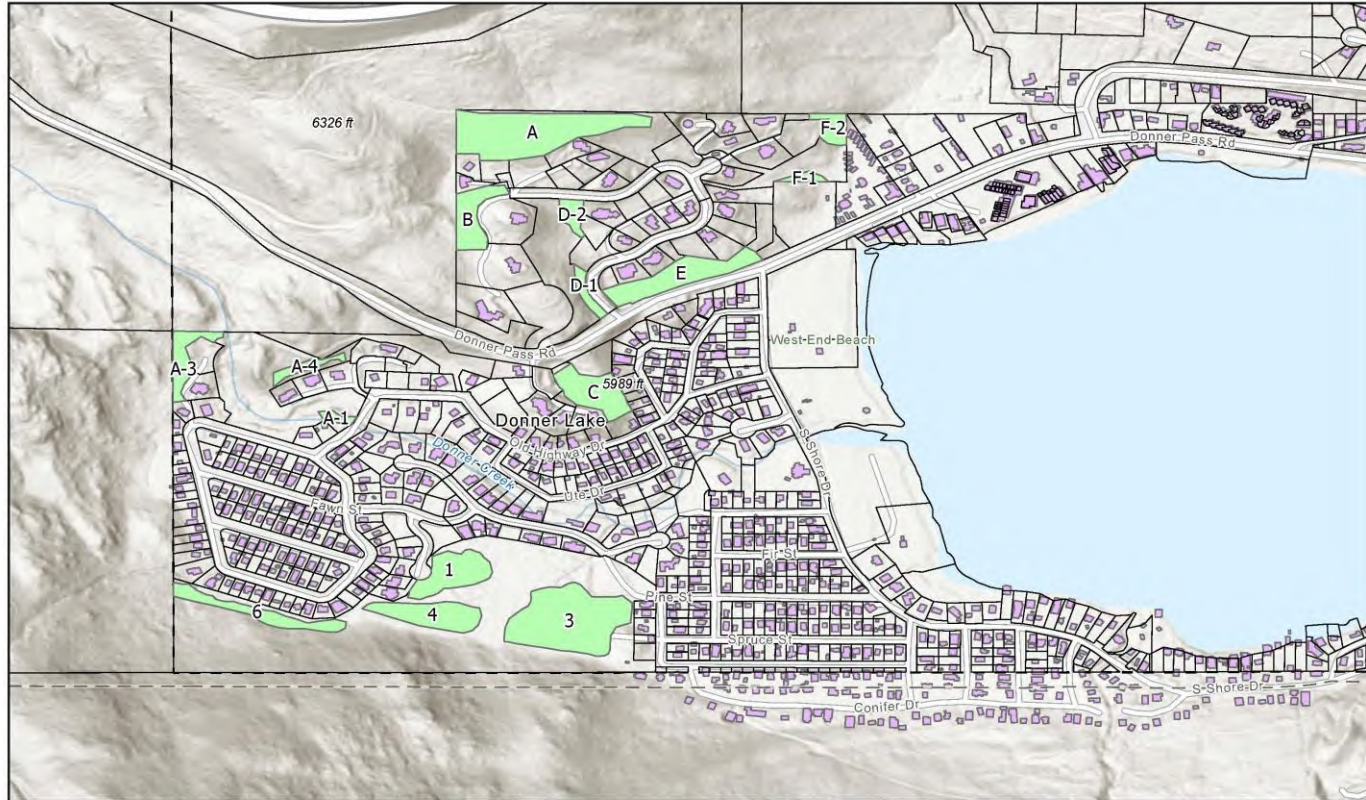





# Community Wildfire Prevention Grants (Measure T).

## West End Donner Lake Community Wildfire Prevention Project (#04-2023)

<b>Grantor</b>	Truckee Fire Protection District		
<b>Grantee:</b>	West End Donner Lake Firewise Community (5013(b))		
<b>Project Cost:</b>	\$183,105.00		Source: Truckee Fire – Measure T
<b>Match Amount:</b>	\$36,245		Match Source: HOA funding
<b>Project area:</b>	HOA owned open space in West End Donner Lake and Wolfe Estates		
<b>Purpose:</b>	The project will coordinate fuel reduction activities across multiple HOA's in the West End Donner Lake area to protect homes and properties adjacent to these open space areas by removing heavy ground fuels, small diameter and dead/downed trees.		
<b>Deliverables:</b>	Hand thinning, pruning, chipping and/or complete removal of residual material on 25 acres.		
<b>Permitting strategy:</b>	CEQA Notice of exemption (15304 – minor alteration to land), Truckee fire assumed lead agency.		
<b>Project Status:</b>	Project is fully completed and closed out as of November 11, 2023. Total of 20 acres treated.		

# WEDL Community Wildfire Prevention



-  In Progress
-  Completed
-  <all other values>
-  Structures



0 0.11 0.22 0.44 Miles





# Tahoe Donner Forestry Mastication Equipment.

# Community Wildfire Prevention Grants (Measure T).

## Tahoe Donner Forestry Mastication Equipment (#10-2023)

<b>Grantor</b>	Truckee Fire Protection District		
<b>Grantee:</b>	Tahoe Donner Association		
<b>Project Cost:</b>	\$118,987.54	Source:	Truckee Fire – Measure T
<b>Match Amount:</b>	\$29,746.88	Match Source:	Tahoe Donner Forestry
<b>Project area:</b>	Tahoe Donner Association		
<b>Purpose:</b>	This project will support the purchase of forestry mastication equipment to enable Tahoe Donner Forestry Dept. To complete approximately 705 acres of fuel reduction projects as part of their 5-year forest management plan. Having an association owned masticator will allow TDA to treat land for a fraction of the cost of contracting the work. It will also allow greater flexibility and efficiencies in project planning and execution.		
<b>Deliverables:</b>	Purchase mastication equipment from local supplier.. TFPD and TDA to establish an agreement for use over the lifetime of the equipment. Total of 705 acres will be treated over the next 5 years.		
<b>Permitting strategy:</b>	Not applicable		
<b>Project Status:</b>	Equipment has been purchased and delivered to TDA. Mastication work will begin in 2024. This grant is fully closed out.		

# South Tahoe Donner Fuel Reduction.



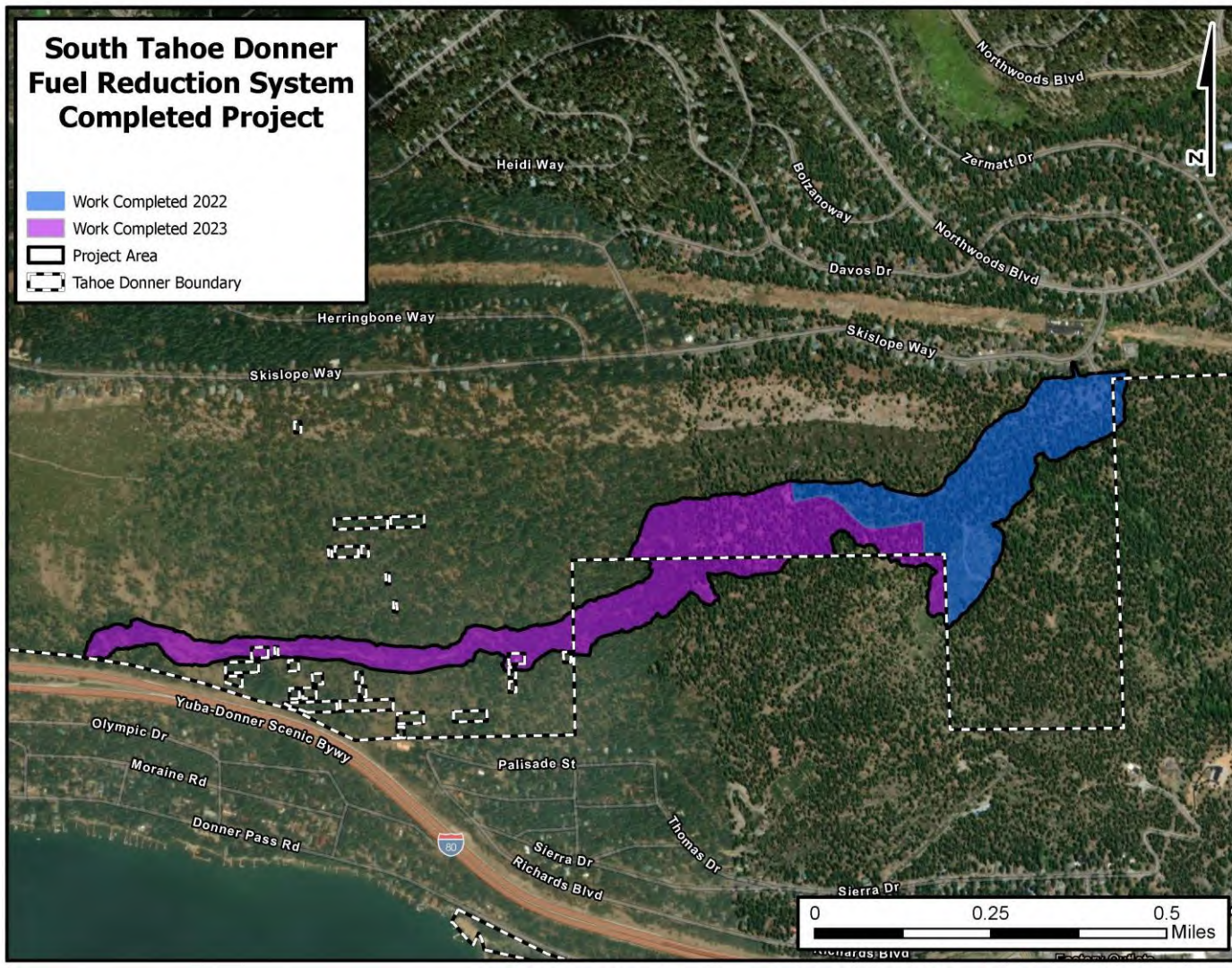
# Community Wildfire Prevention Grants (Measure T).

## South Tahoe Donner Fuel Reduction System (#02-2022)

<b>Grantor</b>	Truckee Fire Protection District		
<b>Grantee:</b>	Tahoe Donner Association		
<b>Project Cost:</b>	\$230,120	Source:	Truckee Fire – Measure T
<b>Match Amount:</b>	\$0.00	Match Source:	
<b>Project area:</b>	South Tahoe Donner (Bermgarten Rd.).		
<b>Purpose:</b>	Reduce Hazardous Fuels and create a shaded fuelbreak along Bermgarten Road from Ski slope way down to Interstate 80 to reduce fire intensity and severity downhill from developed properties.		
<b>Deliverables:</b>	Manual and mechanical thinning, limbing, mastication, and tracked chipping on 82.5 acres.		
<b>Permitting strategy:</b>	CEQA Notice of exemption (15304 – minor alteration to land), Truckee fire assumed lead agency.		
<b>Project Status:</b>	Project is fully completed and closed out as of August 25, 2023, total of 76.4 acres treated. Of that total, 30 acres was completed in 2022. <b>The remaining 46.4 acres was completed in 2023. 106 dead trees removed.</b>		

# South Tahoe Donner Fuel Reduction System Completed Project

- Work Completed 2022
- Work Completed 2023
- Project Area
- Tahoe Donner Boundary





## **Juniper Hill Roadside Shaded Fuel Break Project.**

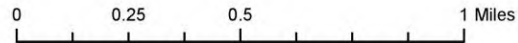


# CWPP Priority Implementation Projects.

## Juniper Hill Roadside Shaded Fuel Break Project

<b>Responsible Agency:</b>	Truckee Fire Protection District	
<b>Contractor:</b>	Sierra Land Improvement Inc.	
<b>Project Cost:</b>	\$135,000	Source: Measure T – CWPP Implementation Fund
<b>Match Amount:</b>	\$5,000	Match Source: Juniper Hill POA
<b>Project area:</b>	Juniper Hill Subdivision – 7.9 miles of private road (high priority CWPP project area)	
<b>Purpose:</b>	Establish a roadside shaded fuel break in partnership with Liberty Utilities to improve ingress and egress, reduce powerline ROW hazards, and to provide a tactical advantage to suppression resources in the event of a wildfire.	
<b>Deliverables:</b>	Hand thinning, chipping, and mastication treatments along 7.9 miles of private roadways, 30' from edge of pavement on both sides. Total of 57 acres of treatments. Truckee Fire to treat 30 acres with measure T funding, Liberty utilities to treat 27 acres with private funding	
<b>Permitting strategy:</b>	CEQA Notice of exemption (15304 – minor alteration to land), Truckee fire assumed lead agency.	
<b>Project Status:</b>	Project is fully completed as of 10/21/2023. Total of 57 acres treated. <b>30 acres treated with Measure T Funding.</b>	

# Juniper Hill Roadside Fuelbreak Project - 57 acres



# **Additional Juniper Hill Roadside Shaded Fuel Break Project Photos.**



# Improving Evacuation Planning

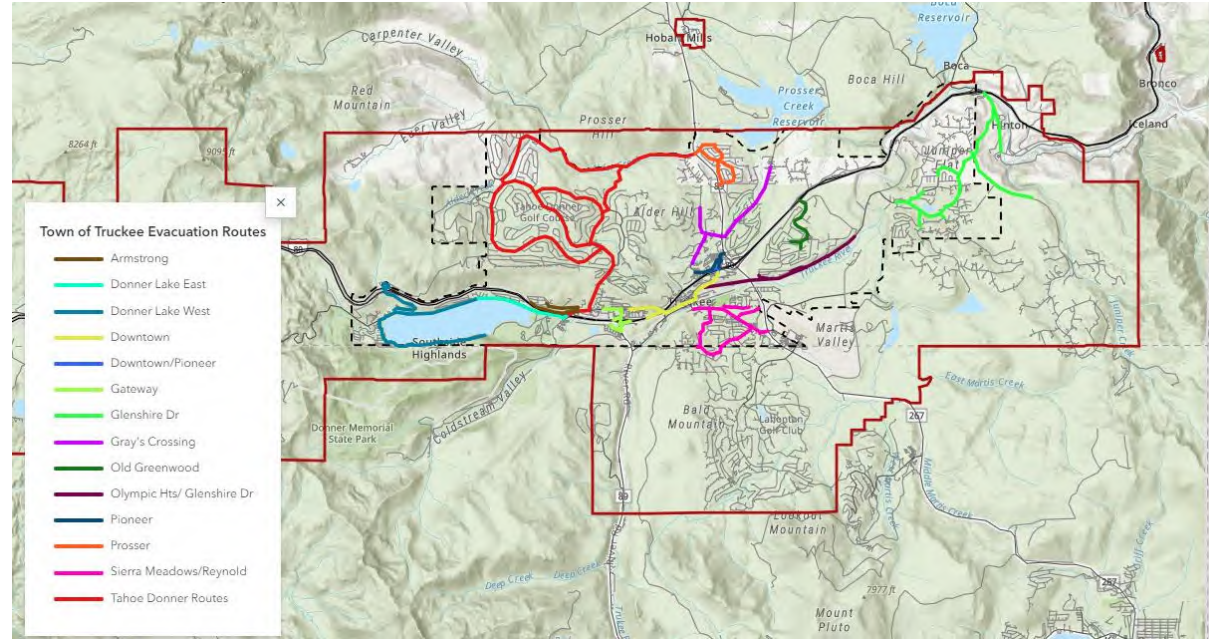
An aerial photograph of a town nestled in a valley. A river flows through the town, crossing a concrete bridge with several cars. The town features a mix of residential houses and commercial buildings, including a large parking lot and a train station. The background shows dense evergreen forests on hillsides and distant mountains under a blue sky with scattered white clouds.

# Fire Evacuation Planning Software.

Truckee Fire has continued to coordinate with Town of Truckee and Nevada County, and work with Genasys Protect & Ladriss to simulate and model evacuation scenarios.

Modeling outputs will be incorporated into the Community Wildfire Protection Plan to better prioritize evacuation route improvement projects:

- Roadside fuel reduction
- Fuel breaks along critical and primary evacuation routes
- Evacuation route signage



# Emergency Preparedness.

Evacuation remains a major topic of concern for Truckee residents.


Truckee Fire will continue educating residents and working with evacuation partners at the Town and Counties.

**THE SIX P'S**

**REMEMBER THE SIX "P's"**  
**KEEP THESE SIX "P's" READY IN CASE IMMEDIATE EVACUATION IS REQUIRED:**

- People and pets
- Papers, phone numbers, & important documents
- Prescriptions, vitamins, and eyeglasses
- Pictures and irreplaceable memorabilia
- Personal computer hard drive and disks
- "Plastic" (credit cards, ATM cards) and cash



UNDERSTAND EMERGENCY ALERTS		
TYPE OF EMERGENCY ALERT	DESCRIPTION	HOW TO GET IT
<b>CodeRED Emergency Alert</b>	 Landline and cell calls, emails, texts for emergencies impacting your home address.	<b>Registration required.</b> Register online at <a href="http://ReadyNevadaCounty.org">ReadyNevadaCounty.org</a> on the Emergency Alerts tab or call 2-1-1 or 1-833-DIAL211.
<b>CodeRED Mobile Alert App</b>	 Push notifications to your smartphone for emergencies within 25 miles of your current location.	<b>Download required.</b> Visit your app store and search for CodeRED Mobile Alert.
<b>Genasys Protect App</b>	 With the Genasys Protect mobile app, follow a zone or turn on your location to get notified about danger wherever you are.	<b>Download required.</b> Visit your app store and search for Genasys Protect.
<b>Wireless Emergency Alert</b>	 Notification to your cellphone based on location.	<b>No registration required.</b> This alert is issued by local government as part of the Integrated Public Alert & Warning System.
<b>Emergency Alert System</b>	 Alerts radio listeners and TV viewers.	<b>No registration required.</b> This alert is issued by local government as part of the Integrated Public Alert & Warning System.
<b>Hi-Lo Siren</b>	 Alerts neighborhoods of an Evacuation Order using a European-style, two-tone siren.	Law enforcement will go door to door when Evacuation Orders have been issued.

Find more wildfire preparedness tips at:

**ReadyNevadaCounty.org**



An aerial photograph of a mountainous region. In the upper center, a large, vibrant blue lake is nestled between forested hills. Below the lake, a small town with several buildings and a parking area is visible on a hillside. The surrounding landscape is a mix of dense green forests and open, grassy slopes. Numerous dirt roads and trails are scattered across the terrain. The overall scene is a typical mountain wilderness area.

# **Community Wildfire Protection Plan (CWPP).**

# CWPP Process.

- Truckee Fire entered into agreements with SWCA Environmental Consultants and Vibrant Planet Land Tender and picked up early momentum during winter 2022/23.
- Project Team was formed with key agency partners to facilitate, guide and provide input on the CWPP effort. This team met 1-2x each month throughout 2023.
- Hazard Assessment and Risk Assessment was conducted by SWCA utilizing the best available data and Land Tender decision support tool.
- Evacuation modeling was conducted by the Town utilizing Ladriss software.
- Complete consensus on prioritized fuel reduction areas were determined with Land Tender.
- Major Stakeholders were engaged to capture feedback, information, and priority mitigation actions.
- CWPP document was further refined, an online story map produced, and the Project Team prepared for the public community feedback period.



# CWPP Next Steps.

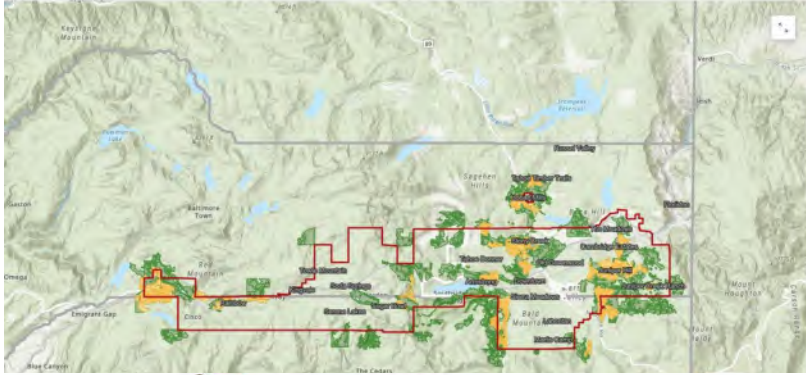
- **Community Feedback** - Truckee Fire planned four public meetings to take place in February 2024. Two of these were in-person and two were virtual to allow for public education, participation, and to receive feedback & comments.

**Landing Site** - All draft documents, storymap, and other info will be made

- available on [www.truckeefire.org/cwpp](http://www.truckeefire.org/cwpp).

- **Document Revision** - Following the community feedback process, the Project Team and stakeholders will meet to review feedback and revise the CWPP to incorporate the community's priorities.
- **Final Certification & Sign-off Signatures**

# CWPP Hub Site.



## Restore and Maintain Landscapes



**Goal 1: Restore and Maintain Landscapes:** Landscapes across all jurisdictions should be

## Fire-Adapted Communities



**Goal 2: Fire-Adapted Communities:** Human populations and infrastructure can withstand a wildfire without loss of life and property.



## Safe, Effective, Risk-Based Wildfire Response



**Goal 3: Safe, Effective, Risk-Based Wildfire Response:** All jurisdictions participate in making and implementing safe, effective, efficient risk-based wildfire management decisions.

To view the CWPP story map, document, and more info, go to:

[www.truckeefire.org/cwpp](http://www.truckeefire.org/cwpp)

# 2024 Goals & Planning.



# Maintain, Expand, and Align New Programs.

## Maintain & Refine Existing Core Programs:

- Defensible Space & Home Hardening Inspections & Education
- Curbside Green Waste Pick-Up
- Forest Management & Fuel Reduction Projects
- Community Wildfire Prevention Grants
- Finalize Community Wildfire Protection Plan

## Expand & Develop New Programs:

- Home Hardening Rebates
- Dead Tree Removal
- Elderly, Disabled & Low Income Defensible Space Assistance
- Explore state and federal grant opportunities to increase pace and scale

## Align:

- Align Wildfire Prevention Division Programs with the Community Wildfire Protection Plan to achieve prioritized wildfire mitigation throughout the Fire District.

# Thank You, Truckee!



Building wildfire resilience in our mountain communities is a collective effort. Let's continue the hard work and efforts to make sure every resident is informed, educated, prepared, and committed to taking action to protect our community and the natural beauty of this mountain town. Together we can make a **Wildfire Resilient Truckee!**



- Eric Horntvedt, Wildfire Prevention Manager  
- Dillon Sheedy, Forester  
& Wildfire Prevention Team