

2016
SHASTA COUNTY
COMMUNITY WILDFIRE PROTECTION PLAN

LOWER CLEAR CREEK
PLANNING AREA



Covering the communities of:

- Anderson
- Centerville
- Happy Valley
- Igo
- Redding (south-west)

LOWER CLEAR CREEK PLANNING AREA (2016)

I. PROPOSED PROJECTS

A. THE PLANNING AREA

The 31,256-acre Lower Clear Creek Watershed lies southwest of Redding. The largest concentration of residences is in the southeastern portion of the planning area with scattered residences throughout the rest of the area. With the presence of Whiskeytown National Recreation Area (WNRA), establishment of the Horsetown-Clear Creek Preserve, and the development of a trail system and overlook on BLM land, recreational use of the watershed has increased dramatically.

Mining has occurred in the watershed for over 150 years. Gold and gravel were mined throughout the main stem of Clear Creek resulting in extensive damage to the waterway and associated fish habitat. However, over the past decade, Lower Clear Creek Watershed has had extensive work to successfully restore spawning habitat for salmon and steelhead.

Topography of the area varies from relatively flat in the eastern reaches to very steep in the western reaches. Elevations vary from 450 feet in the Sacramento River valley floor to 6,200 feet on Shasta Bally Mountain on the WNRA. Generally, the climate of the watershed is characterized by warm, dry summers and cool, wet winters. Average temperature and precipitation vary greatly within the watershed due largely to changes in elevation. Climatic data from Redding is representative of the lower portion of the watershed. Average annual precipitation for Redding is 38.7 inches ranging from 14.9 inches to 67.8 inches. Average annual temperature is 63.2 degrees F, but often exceeds 100 degrees F in summer. Snow is not uncommon, but rarely persists in lower elevations. Summer winds are generally from the south while north winds are common in late summer and fall.

B. PRIORITY PROJECTS

LOWER CLEAR CREEK PLANNING AREA FUEL REDUCTION PROJECTS				
PROPOSED PROJECT	MAP NUMBER¹	TYPE	AREA (acres)	ESTIMATED COST²
Richards Way (Friendly Hills)	1	Fuelbreak	58	\$303,709
Canyon Rd/Valley View Rd	2	Fuelbreak	17	\$88,582
Bohn Blvd/Friendly Hills	3	Fuelbreak	34	\$177,164
Setting Sun/China Gulch Dr	4	Fuelbreak	75	\$392,291
Happy Valley Rd East	5	Fuelbreak	10	\$50,618
Canto de las Lupine to San Souci	6	Fuelbreak	78	\$404,945
Diggins Way	7	Fuelbreak	27	\$139,200
Zogg Mine Road	8	Fuelbreak	109	\$569,455
Mule Mountain FB	9	Fuelbreak	107	\$556,800
Horsetown to Placer West (Bridge to Bridge)	10	Fuelbreak	100	\$520,100
Muletown Road	11	Fuelbreak	82	\$215,000
Placer West (Bridge to Centerville)	12	Fuelbreak	70	\$366,982
Texas Springs Road	13	Fuelbreak	58	\$303,709
Archer Rd FB	14	Fuelbreak	22	\$113,891

The identified fuel reduction projects fall into two categories:

1. defensible space for homes and structures, and
2. roadside and ridgeline shaded fuelbreaks intended to create safe ingress and egress for fire personnel and escape routes for residents.

Projects were prioritized based on need and factors such as the following:

- Protection of private residences and properties;
- Access or escape route for the public and fire suppression forces;
- Identification of staging areas in conjunction with the fuelbreak development to provide fire suppression forces strategic locations for planning fire management and suppression actions.
- Connections to other fuelbreaks or areas of lower risk.

Landowners and residents are strongly encouraged to develop defensible space or maintain the fuels reduction projects on their properties to keep the integrity of the work done and to show project sustainability which could lead to additional future projects.

¹ Proposed projects are numbered on the map according to priority.

² Estimated costs of the projects are for planning only. More accurate costs will be determined for the preparation of project proposals.

LOWER CLEAR CREEK PLANNING AREA BASIC ASSUMPTIONS ³	
Estimated cost of fuelbreak (roadside)	\$5,220 per acre
Estimated cost of fuelbreak (ridgetop or off-road)	\$7,310 per acre
Estimated cost of defensible space (hand labor)	\$600 per dwelling (<1 acre)
Standard fuelbreak width	200 feet
Population	2.6 per dwelling
Dwellings	2257
Property Value (~ \$201,250 - \$475,000 per dwelling)	\$260,000
Schools	\$145,000,000
Commercial Structures Value ⁴	\$415,500 – \$23,900,000
Power line	10.26 miles @ \$250,000/mile

#1 – Richards Way

- Dense continuous fuels and northerly winds present wildland fire threat to residences located south of Lower Clear Creek; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks along the south rim of Lower Clear Creek Canyon, behind the properties near Richards Way.

2.4 miles long x 200 feet wide = 58 acres.

Dense fuels along the south rim of Clear Creek Canyon



³ Estimated costs of the projects are for planning only. More accurate costs will be determined for the preparation of project proposals.

⁴ County assessed values, 2010

#2 – Canyon Road/Valley View Road

- Vulnerable to dense fuels and westerly wind-driven wildfires;
- Protects a water tower, Redding Ranchettes subdivision, Redding Rancheria and Win River Casino; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks near Valley View Road.

0.7 miles long x 200 feet wide = 17 acres.



North end of proposed fuelbreak looking southwest

#3 – Bohn Blvd (Friendly Hills)

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential subdivisions; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks behind residences near Bohn Blvd.

1.4 miles long x 200 feet wide = 34 acres.



Dense fuels along roadway

#4 – Setting Sun/China Gulch Drive

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential subdivisions; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks behind residences near Setting Sun Drive.
3.1 miles long x 200 feet wide = 75 acres.



*Residences in Friendly Hills.
This is similar to Richards Way, Bohn Blvd, and Setting Sun Drive.*

#5 – Happy Valley Road East

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential properties; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks behind residences near Happy Valley Road.
0.4 miles long x 200 feet wide = 10 acres.

#6 – Canto de Las Lupine to San Souci

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects the community of Centerville; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks behind residences between Canto de Las Lupine and San Souci Drive.

3.2 miles long x 200 feet wide = 78 acres.

#7 – Diggins Way

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential subdivisions; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks behind residences near Diggins Way.

1.1 miles long x 200 feet wide = 27 acres.

#8 – Zogg Mine Road

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential properties; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks along the right-of-way on Zogg Mine Road.

4.5 miles long x 100 feet wide = 55 acres.

#9 – Mule Mountain

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential properties; and
- Provides emergency ingress/egress.

Proposed Solution:

Maintain fuelbreak along the north-south ridge of Mule Mtn.

4.4 miles long x 200 feet wide = 107 acres.

#10 – Horsetown to Placer West (Bridge to Bridge)

- Continuity of hazardous fuel plus dead fuel buildup in the southeastern corner of Horsetown-Clear Creek Preserve.
- Several years ago, a heavy snow storm blanketed Shasta County. Thousands of trees were toppled over or limbs were broken off. Numerous trees were affected in the southeastern corner of the Horsetown Clear Creek Preserve. After that, in 2013, the Clover Fire burned part of this area. Removal of the dead fuel and construction of a fuelbreak along the property boundary will help to prevent a fire from spreading.

Proposed Solution:

Construct shaded fuelbreaks near Horestown-Clear Creek Preserve and north near Cloverdale Road then east along Placer Road to the Clear Creek Veterans Memorial Bridge.

4.1 miles long x 200 feet wide = 100 acres.



Dense continuous fuels along southern boundary of Horsetown-Clear Creek Preserve property

#11 – Muletown Road

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential properties; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreak along Muletown Road.
3.4 miles long x 100 feet wide = 41 acres.

#12 – Placer Road West (Bridge to Centerville)

- Vulnerable to northerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential properties; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks near western Placer Road.
2.9 miles long x 200 feet wide = 70 acres.

#13 – Texas Springs Road

- Vulnerable to southerly wind-driven wildfires, dense fuels, and steep terrain;
- Protects residential properties; and
- Provides emergency ingress/egress.

Proposed Solution:

Construct shaded fuelbreaks near Texas Springs Road.
2.4 miles long x 200 feet wide = 58 acres.

II. COMMUNITY PRIORITIES

A. OVERALL COMMUNITY WILDFIRE RISK ASSESSMENT

LOWER CLEAR CREEK PLANNING AREA OVERALL COMMUNITY WILDFIRE RISK ASSESSMENT								
Community, structure or area at risk	Map Number	Fuel Hazard	Wildfire Occurrence Risk	Structural Ignitability	Preparedness Capability	Overall Risk	Fire Hazard Severity Zone Rating	WUI
Richards Way	1	High	High	High	Low	High	Very High	Yes
Canyon Rd/Valley View Rd	2	High	High	High	Low	High	Very High	Yes
Bohn Blvd	3	High	High	High	Low	High	Very High	Yes
Setting Sun Drive	4	High	High	High	Low	High	Very High	Yes
Happy Valley Rd East	5	High	High	High	Low	High	Very High	Yes
Canto de Las Lupine to San Souci	6	High	High	High	Low	High	Very High	Yes
Diggins Way	7	High	High	High	Low	High	Very High	Yes
Zogg Mine Road	8	High	High	High	Low	High	Very High	Yes
Mule Mountain	9	High	High	High	Low	High	Very High	Yes
Horsetown to Placer West	10	High	High	High	Low	High	Very High	Yes
Muletown Road	11	High	High	High	Low	High	Very High	Yes
Placer West	12	High	High	High	Low	High	Very High	Yes
Texas Springs Road	13	High	High	High	Low	High	Very High	Yes
Archer Road	14	High	High	High	Low	High	Very High	Yes

B. OVERALL COMMUNITY HAZARD REDUCTION ASSESSMENT

LOWER CLEAR CREEK PLANNING AREA OVERALL COMMUNITY HAZARD REDUCTION ASSESSMENT					
Community, structure or area at risk	Map Number	Overall Risk	Cultural Value	Treatment Type	Treatment Method
Richards Way	1	High	Low	Fuelbreak	Brush and tree removal, pruning
Canyon Rd/Valley View Rd	2	High	Low	Fuelbreak	Brush and tree removal, pruning
Bohn Blvd	3	High	Low	Fuelbreak	Brush and tree removal, pruning
Setting Sun Dr	4	High	Low	Fuelbreak	Brush and tree removal, pruning
Happy Valley Rd East	5	High	Low	Fuelbreak	Brush and tree removal, pruning
Canto de Las Lupine to San Souci	6	High	Low	Fuelbreak	Brush and tree removal, pruning
Diggins Way	7	High	Low	Fuelbreak	Brush and tree removal, pruning
Zogg Mine Road	8	High	Low	Right-Of-Way	Brush and tree removal, pruning
Mule Mountain	9	High	Low	Fuelbreak	Brush and tree removal, pruning
Horsetown to Placer West	10	High	Low	Fuelbreak	Brush and tree removal, pruning
Muletown Road	11	High	Low	Fuelbreak	Brush and tree removal, pruning
Placer West	12	High	Low	Fuelbreak	Brush and tree removal, pruning
Texas Springs Road	13	High	Low	Fuelbreak	Brush and tree removal, pruning
Archer Road	14	High	Low	Fuelbreak	Brush and tree removal, pruning

III. COMMUNITY VALUES

RESIDENCES AND MAJOR STRUCTURES

Industry is concentrated in the lower reaches of the LCC watershed and is primarily associated with gravel mining. The majority of the residences are located in the southern portion of the watershed along Canyon Road and China Gulch Drive in the Friendly Hills area.

The Lower Clear Creek watershed does encompass the lands around Redding Rancheria, Horsetown-Clear Creek Preserve, and Whiskeytown Lake and National Recreation Area



Whiskeytown Lake and National Recreation Area



MAPS OF LOWER CLEAR CREEK PLANNING AREA

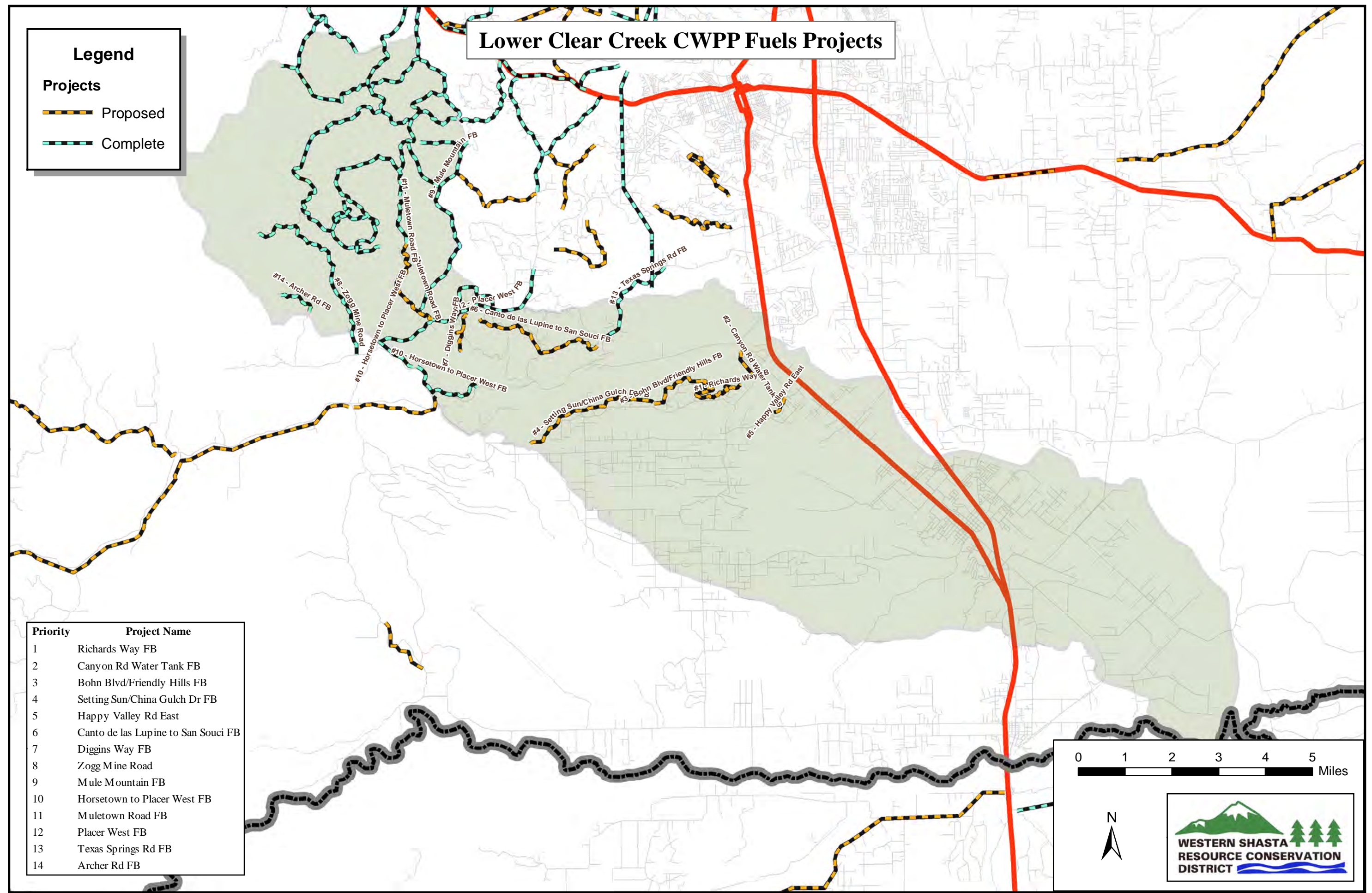
- 1. LOWER CLEAR CREEK PROPOSED PROJECTS AND PLANNING AREA**
- 2. FIRE SEVERITY RATING**
- 3. VEGETATION**
- 4. SPECIAL STATUS SPECIES AND HABITAT**

Lower Clear Creek CWPP Fuels Projects

Legend



Projects

-  Proposed
-  Complete



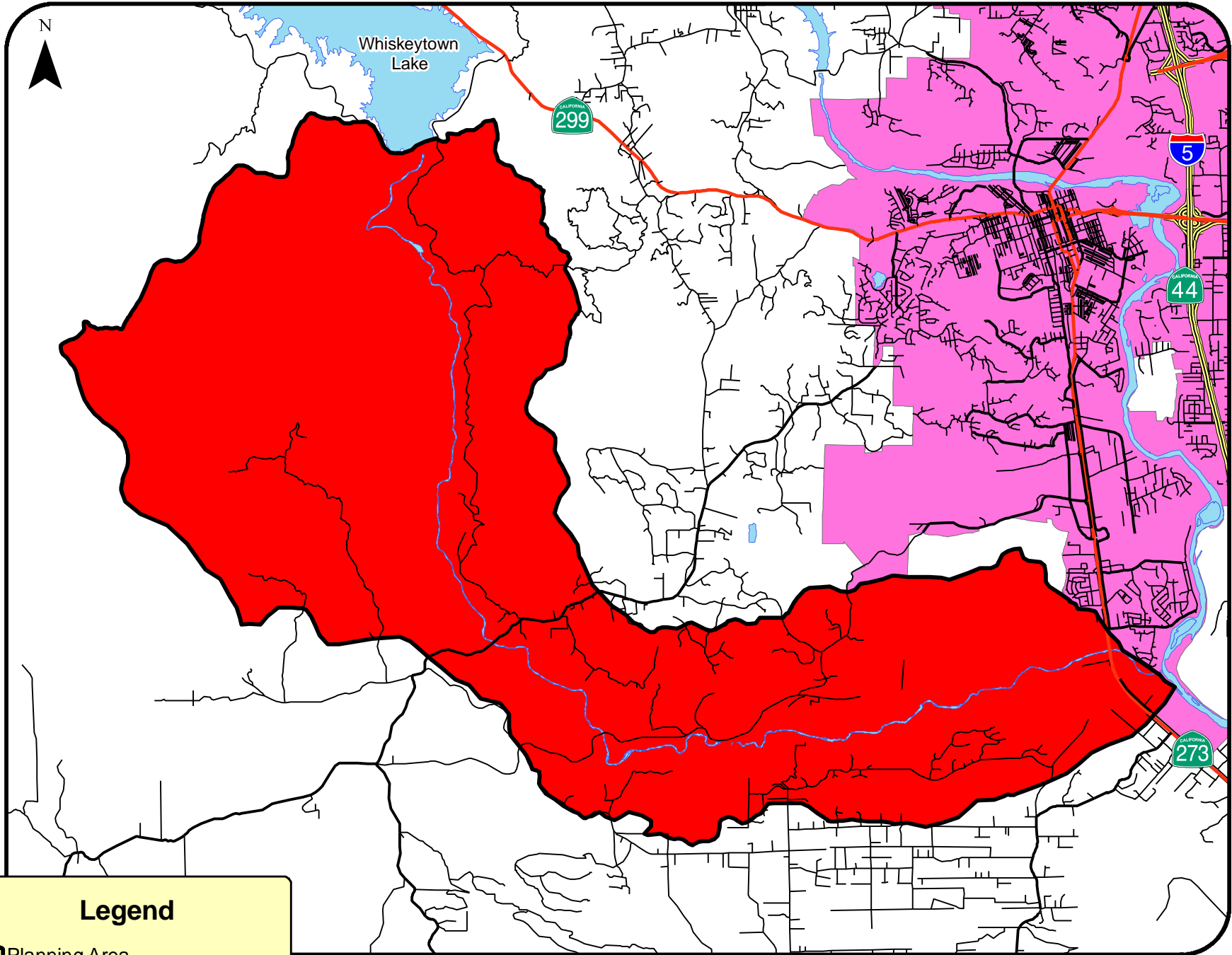
Priority	Project Name
1	Richards Way FB
2	Canyon Rd Water Tank FB
3	Bohn Blvd/Friendly Hills FB
4	Setting Sun/China Gulch Dr FB
5	Happy Valley Rd East
6	Canto de las Lupine to San Souci FB
7	Diggins Way FB
8	Zogg Mine Road
9	Mule Mountain FB
10	Horsetown to Placer West FB
11	Muletown Road FB
12	Placer West FB
13	Texas Springs Rd FB
14	Archer Rd FB

0 1 2 3 4 5 Miles






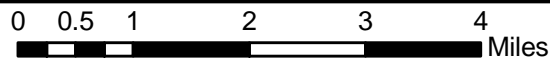
**WESTERN SHASTA
RESOURCE CONSERVATION
DISTRICT**

FIRE SEVERITY RATING

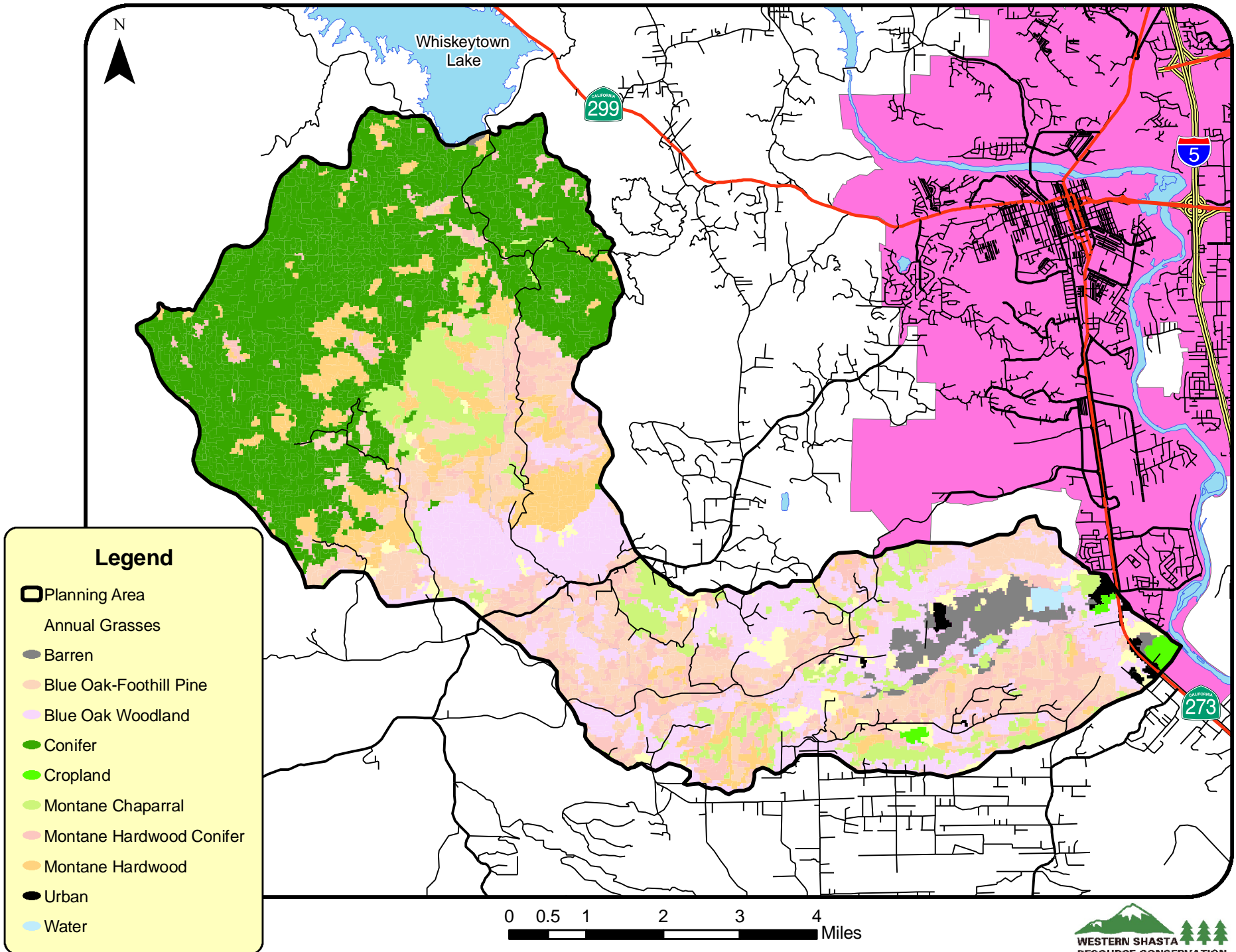


Legend

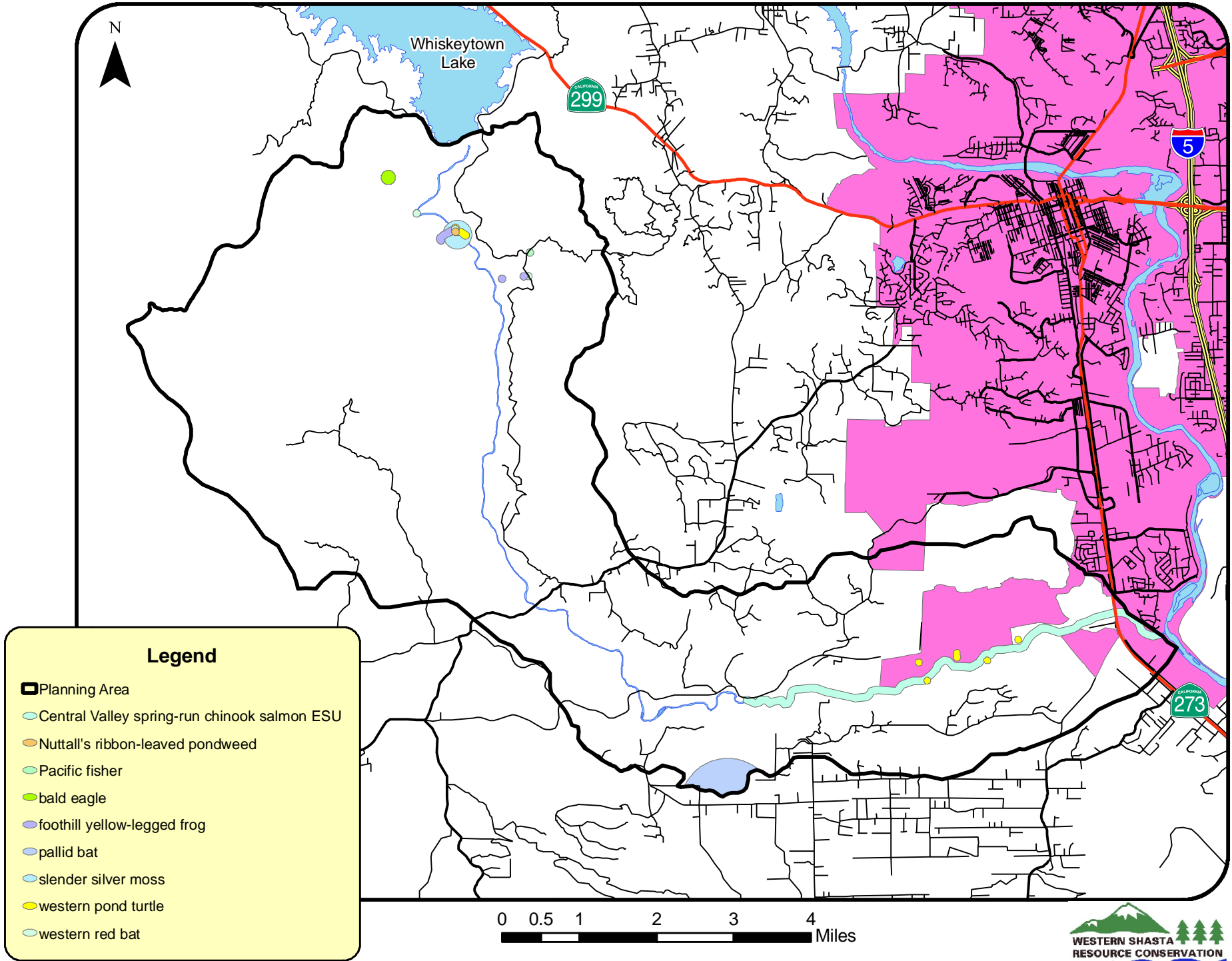
-  Planning Area
-  Very High Fire Severity Rating



VEGETATION



SPECIAL STATUS WILDLIFE AND PLANT SPECIES



Department Name: Shasta County Board of Supervisors
Agreement Number: FAF-040020
Dollar Amount: \$53,500