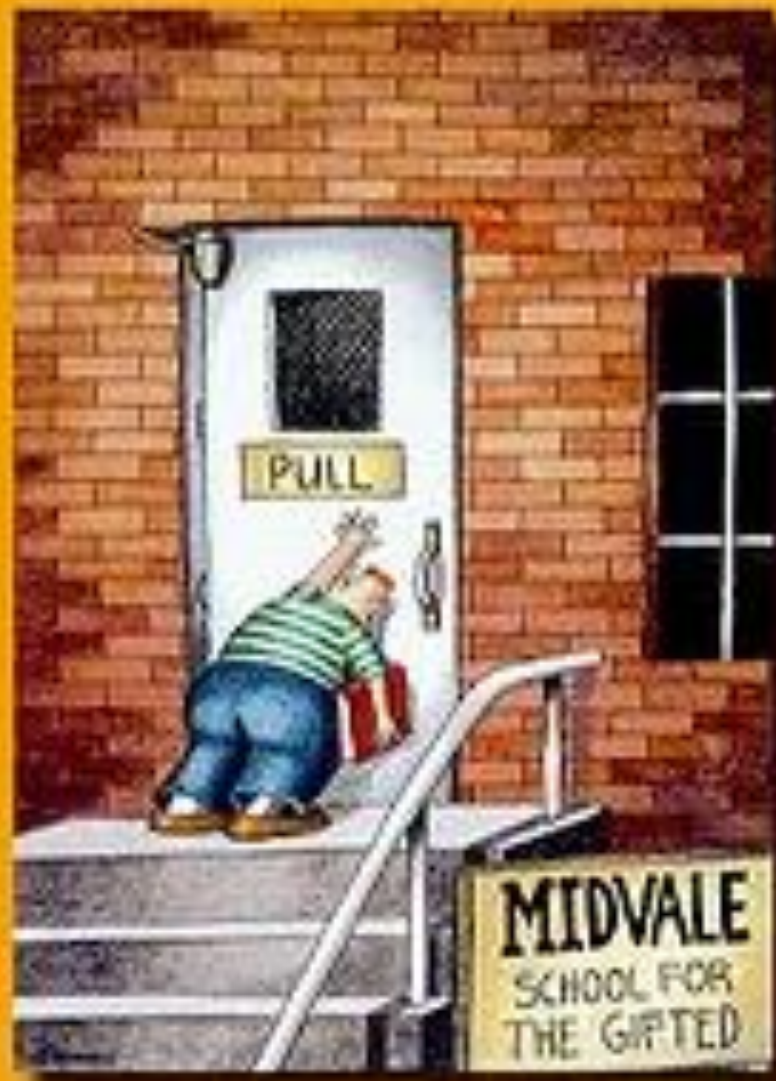




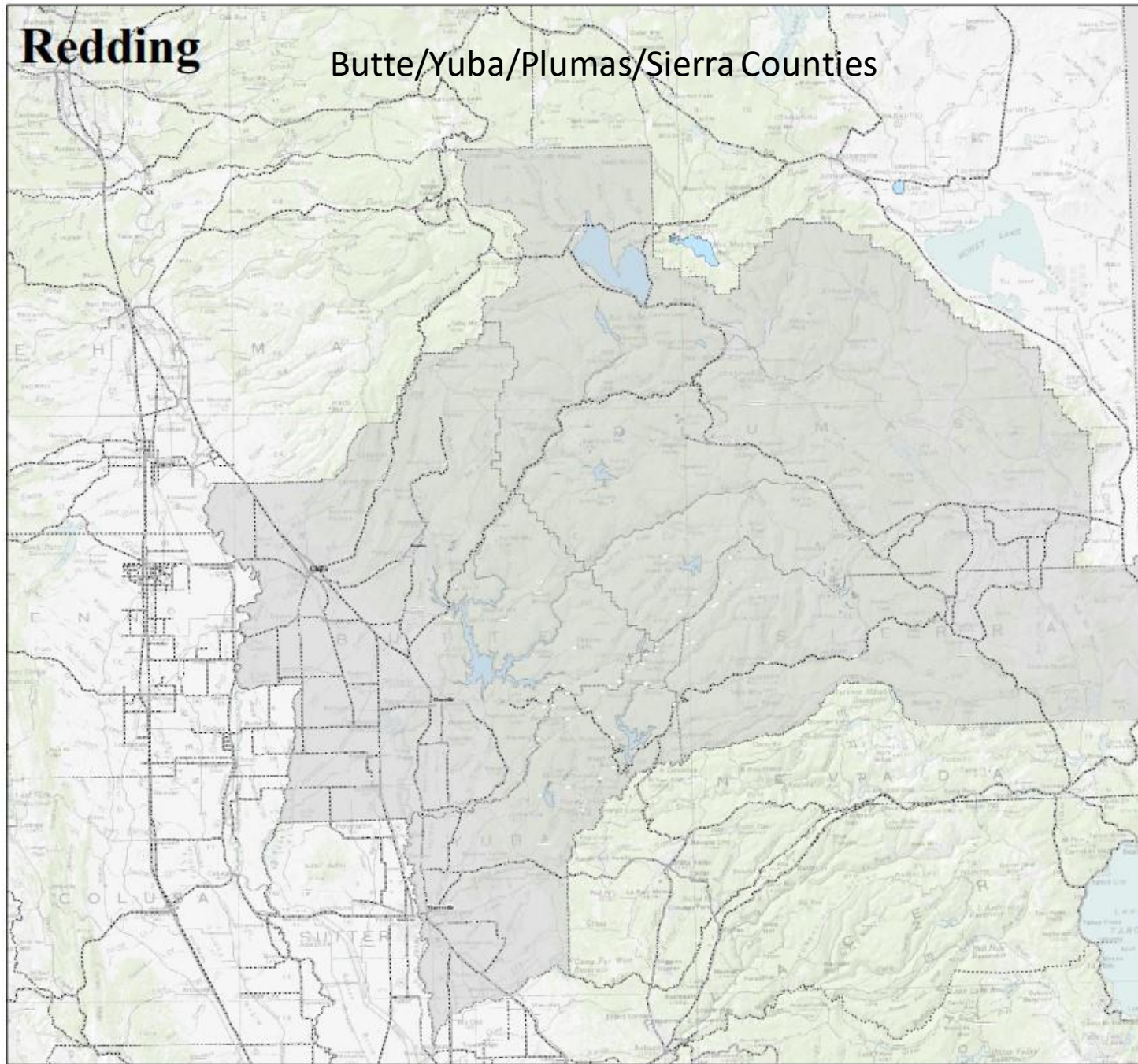
Landscape Level Collaborative Fuel Reduction Projects





Redding

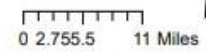
Butte/Yuba/Plumas/Sierra Counties



3,772,640 ac.

Legend

- ca_hwy_100k
- County Line
- County Line



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by Ryan J. McKillop Date: 2/21/2023

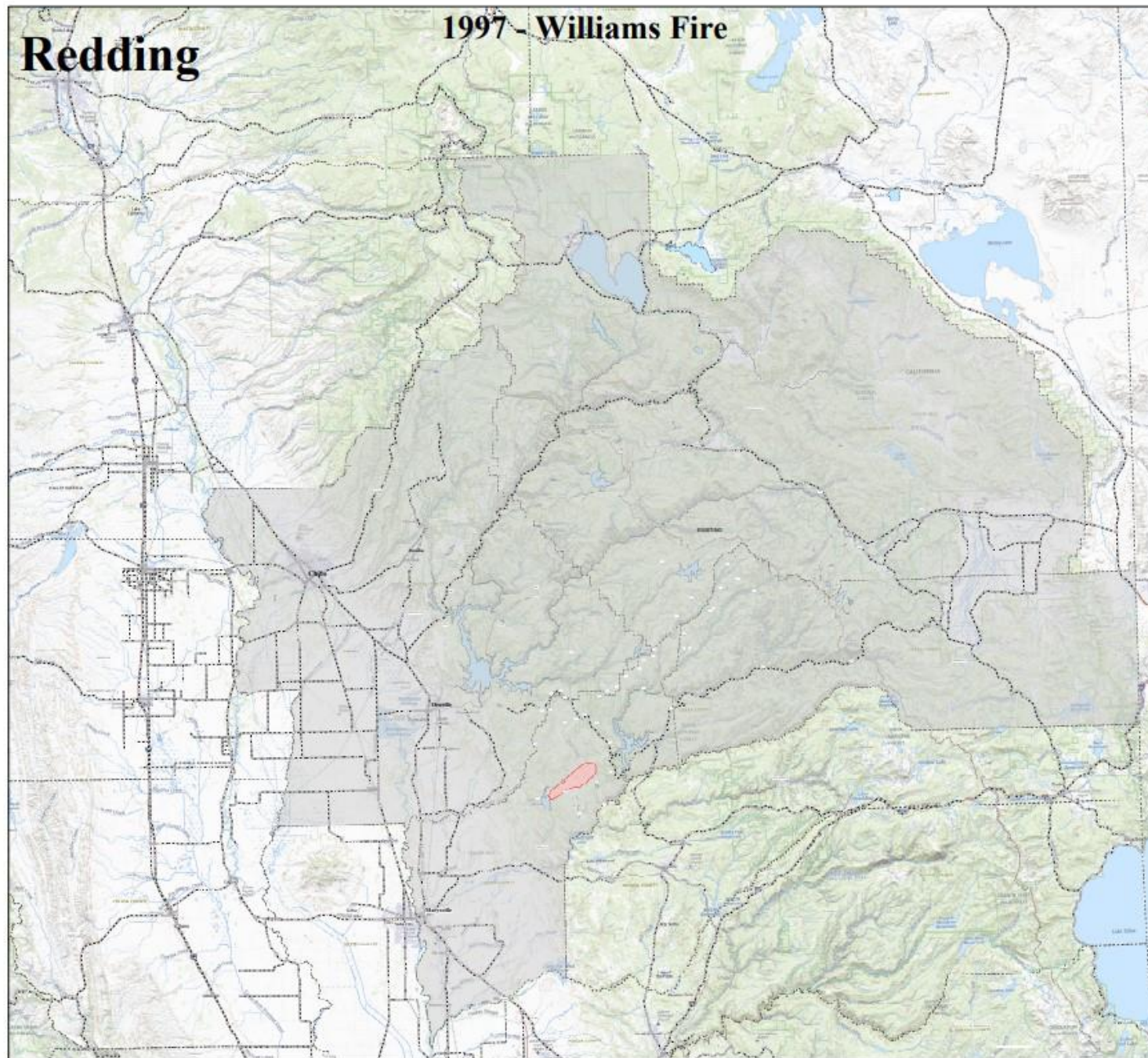
Redding

1997 - Williams Fire

5,838

Legend

- Williams Fire - 1997
- County Line
- County Line
- ca_hwy_100k



0 2.755.5 11 Miles



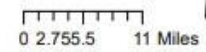
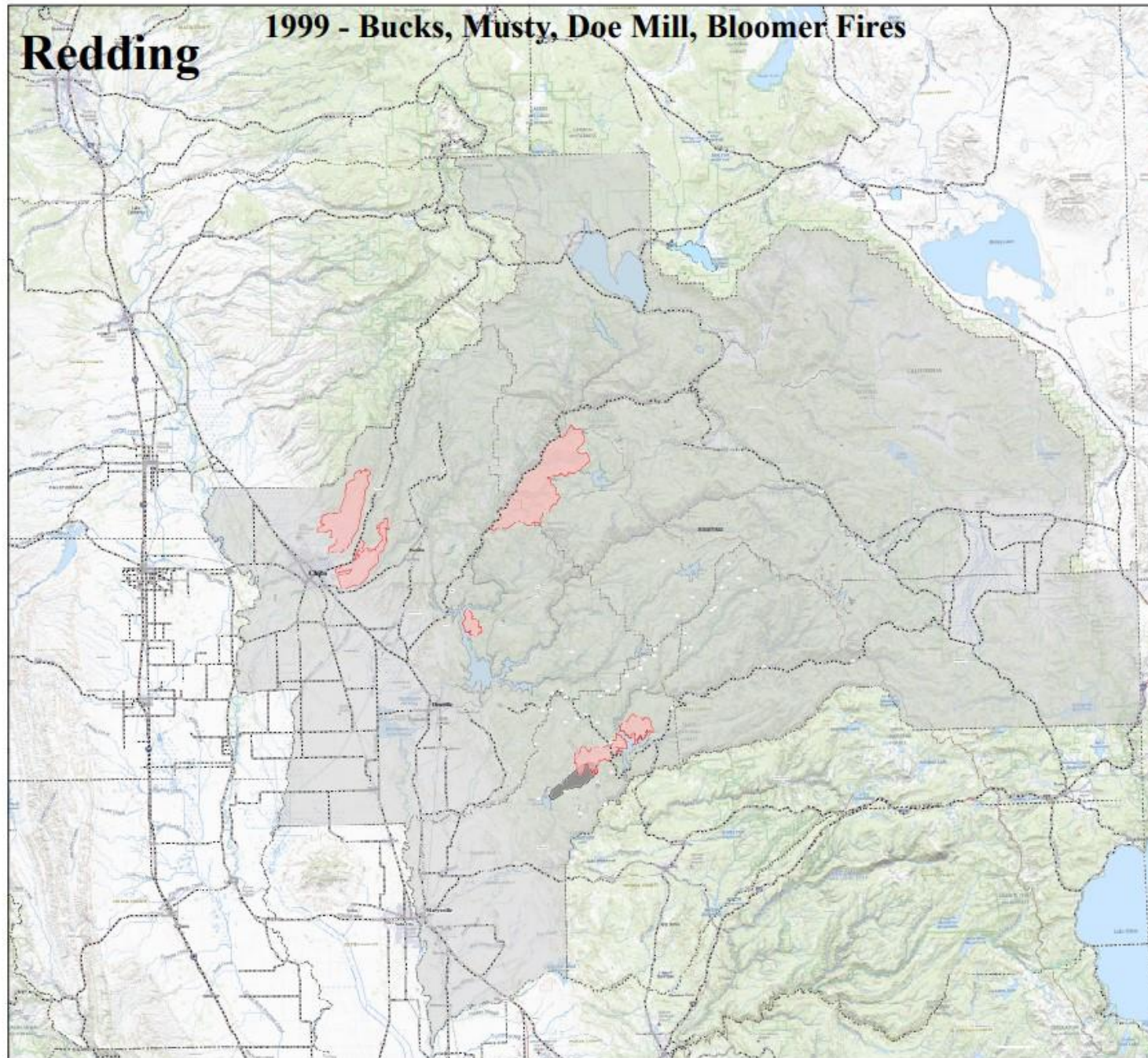
Redding

1999 - Bucks, Musty, Doe Mill, Bloomer Fires

82,590

Legend

- ca_hwy_100k
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Williams Fire - 1997
- County Line
- County Line



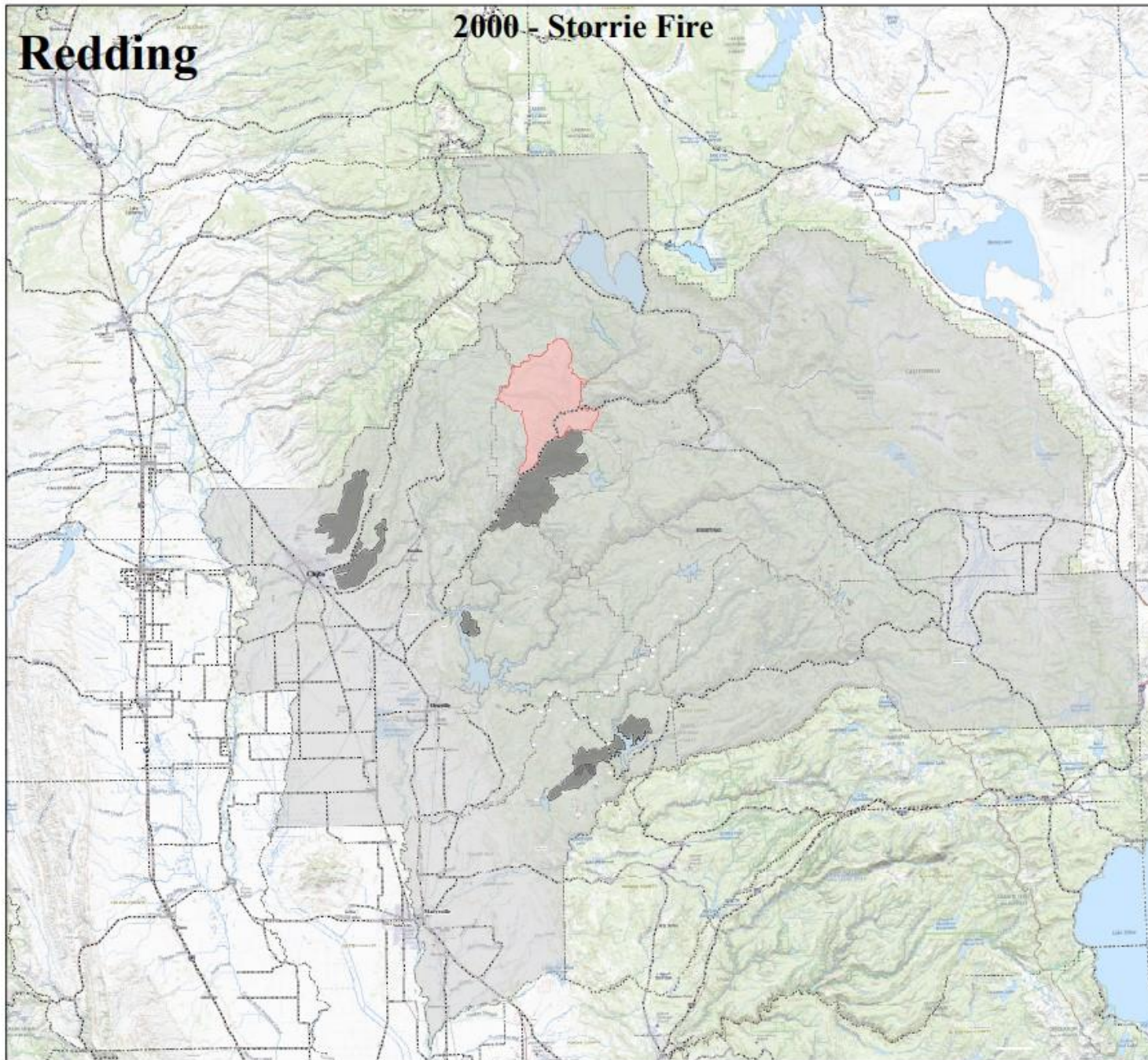
Redding

2000 - Storrie Fire

138,666

Legend

- ca_hwy_100k
- Storrie Fire - 2000
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- County Line
- County Line



0 2.755.5 11 Miles



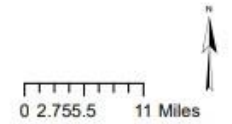
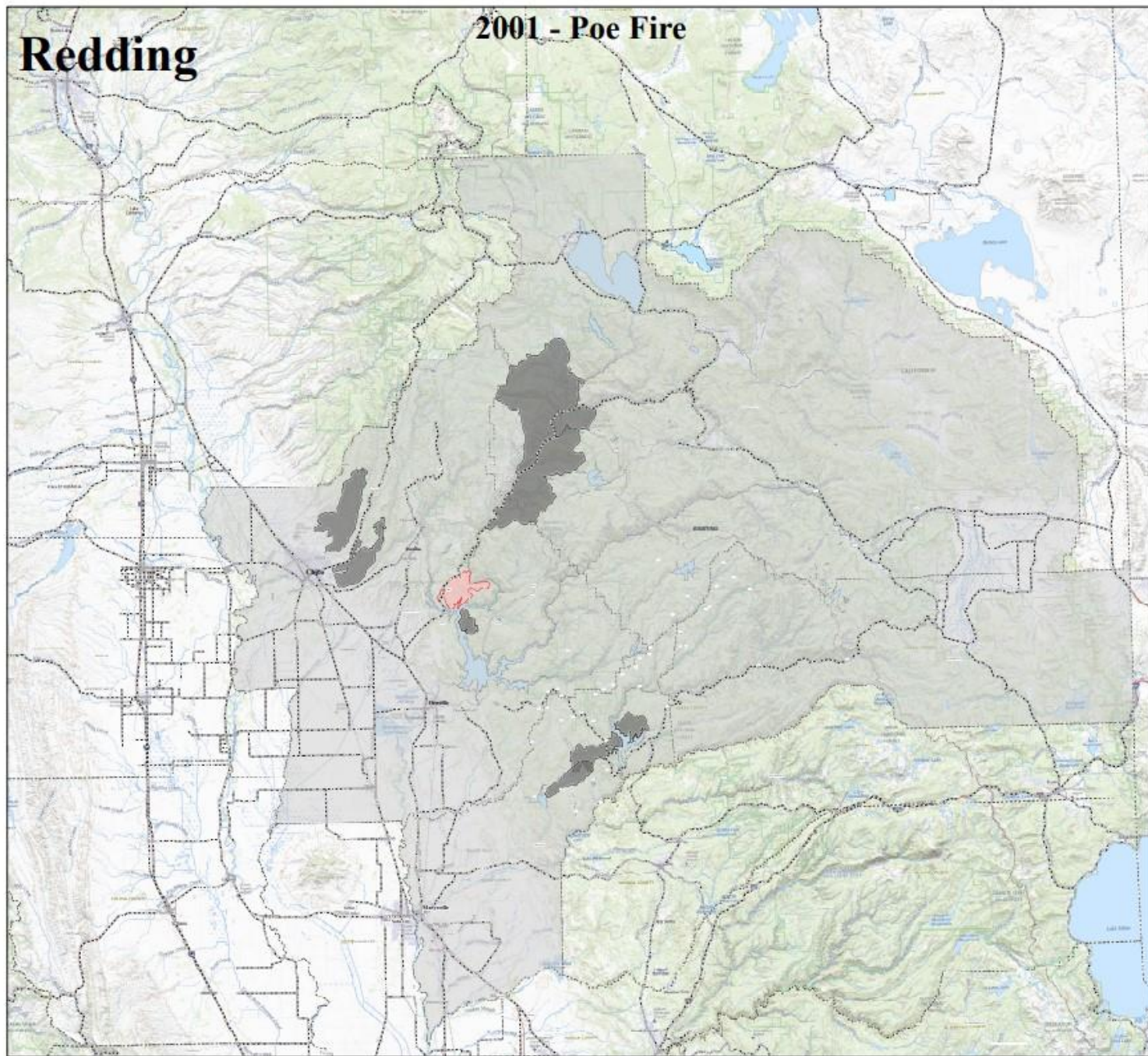
Redding

2001 - Poe Fire

146,721

Legend

- ca_hwy_100k
- Poe Fire - 2001
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Storrie Fire - 2000
- County Line
- County Line



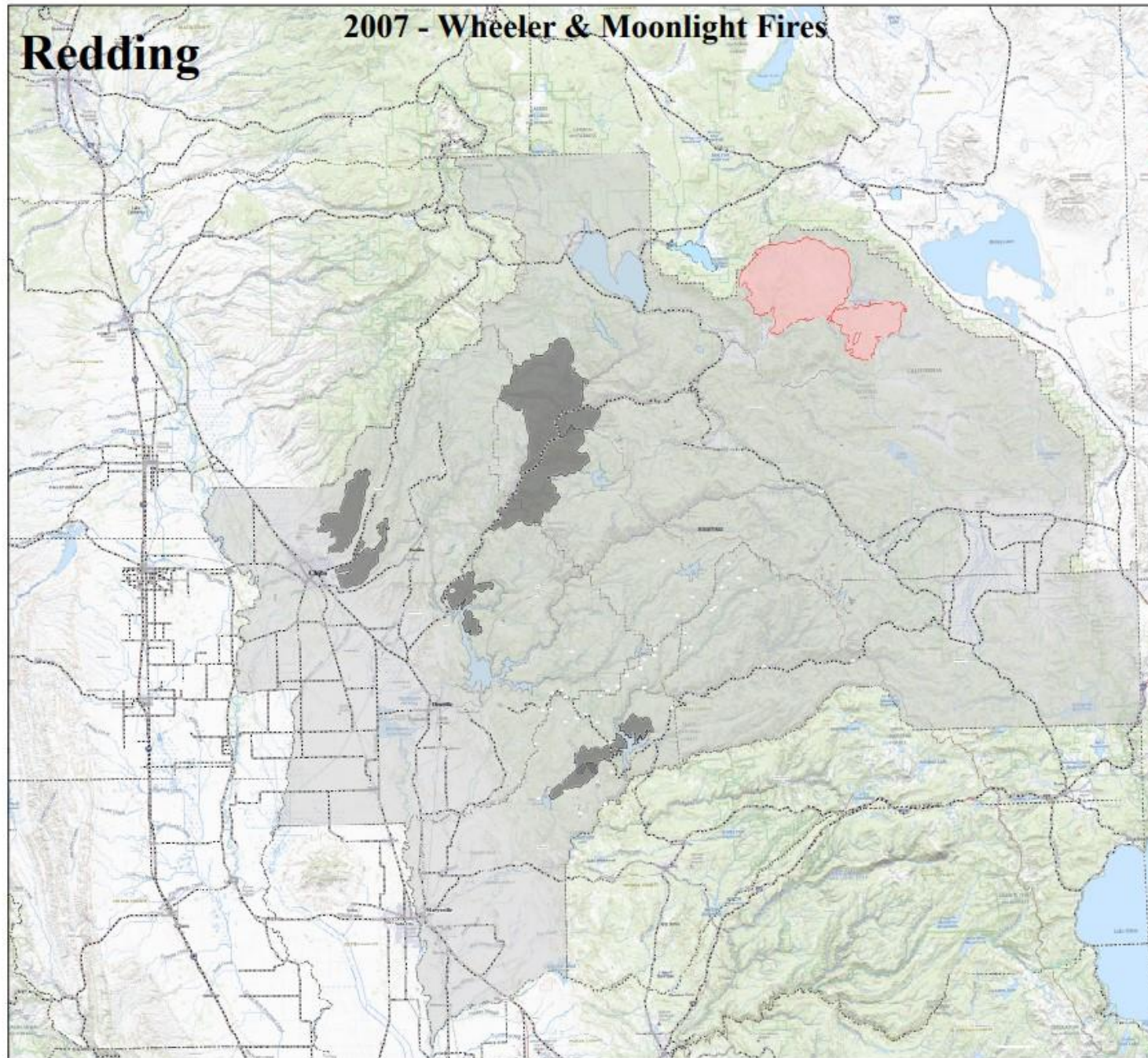
Redding

2007 - Wheeler & Moonlight Fires

234,013

Legend

- ca_hwy_100k
- Wheeler Fire - 2007
- Moonlight Fire - 2007
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Storrie Fire - 2000
- Poe Fire - 2001
- County Line
- County Line



0 2.755.5 11 Miles



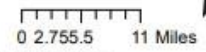
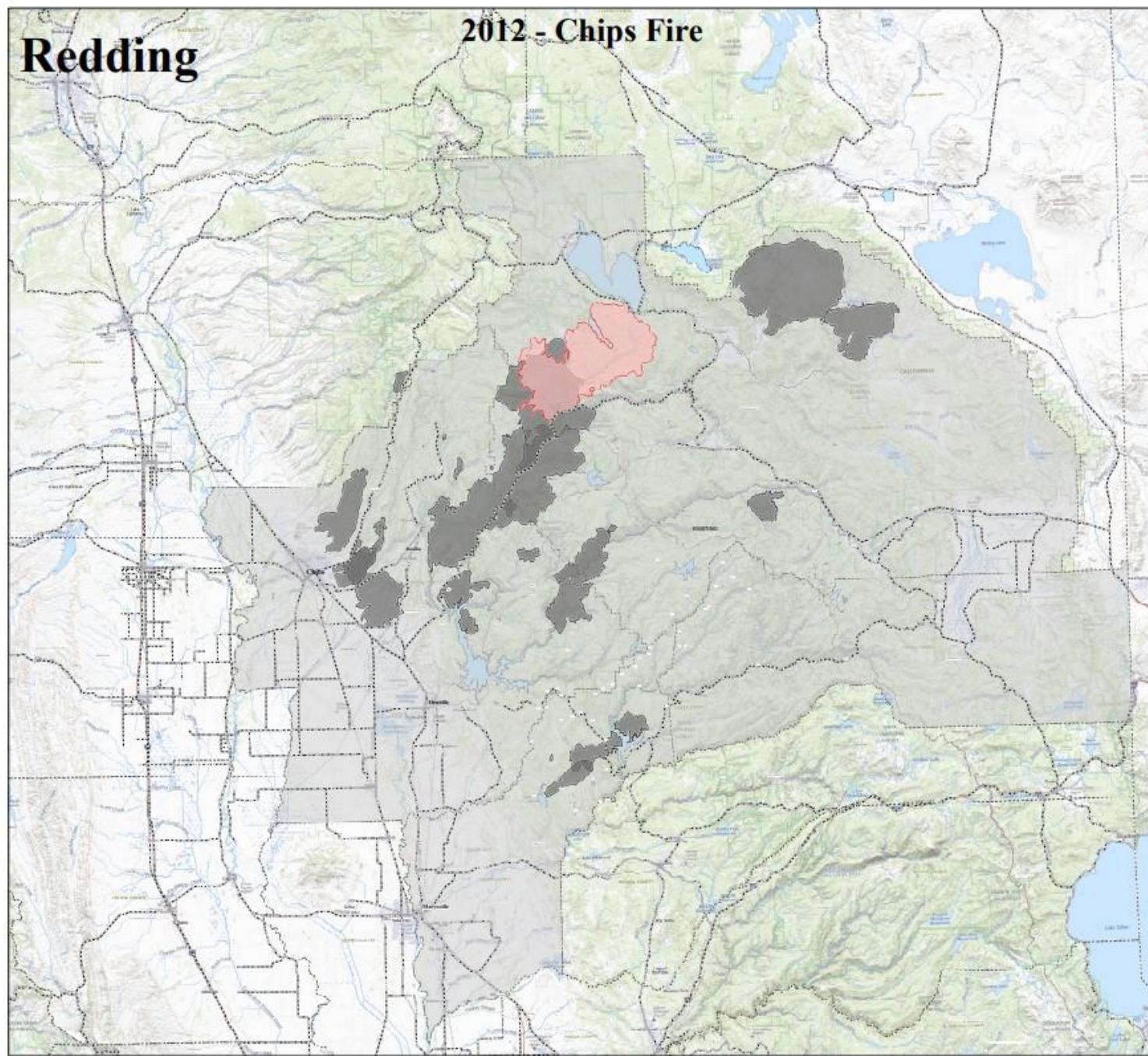
Redding

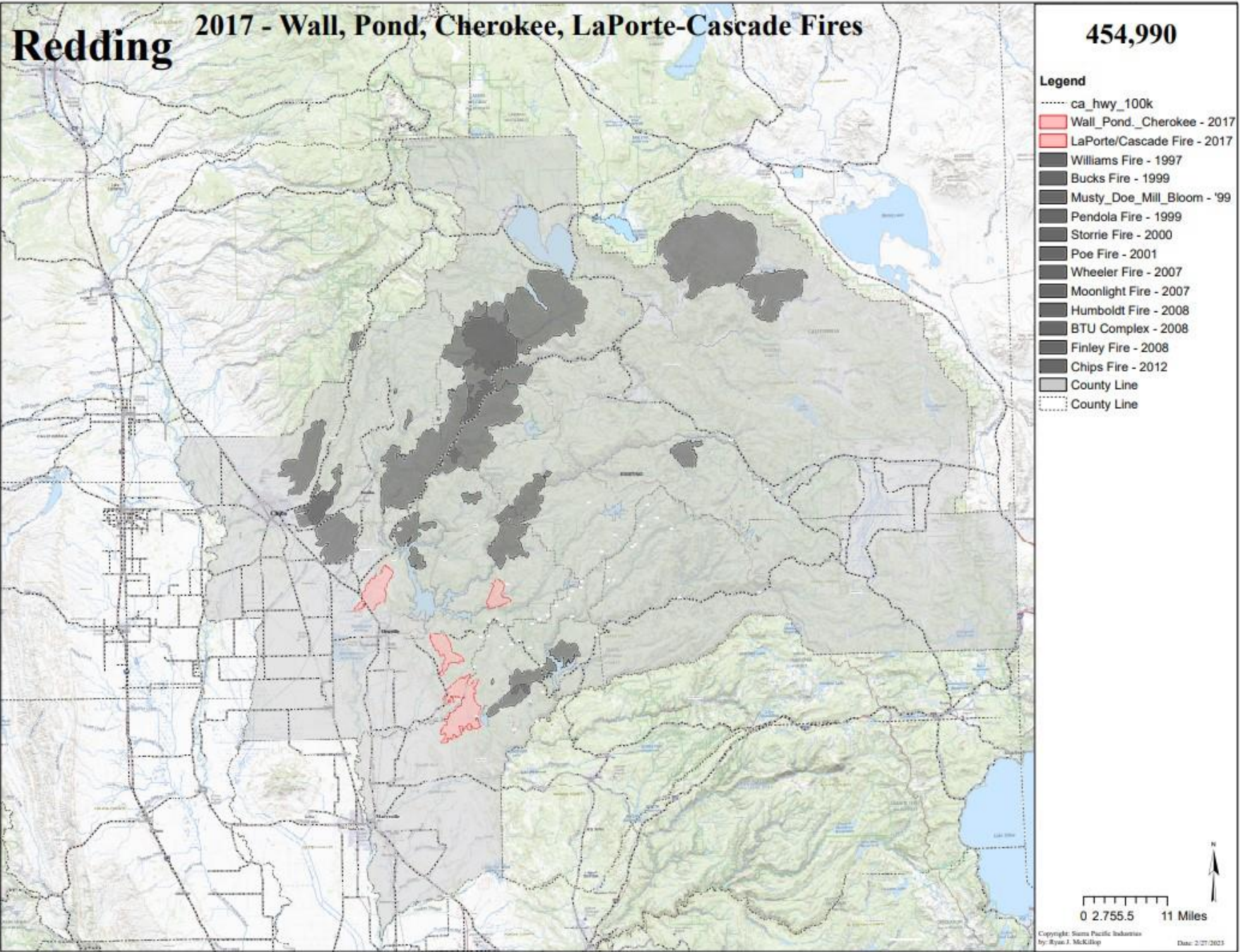
2012 - Chips Fire

420,389

Legend

- ca_hwy_100k
- Chips Fire - 2012
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Storrie Fire - 2000
- Poe Fire - 2001
- Wheeler Fire - 2007
- Moonlight Fire - 2007
- Humboldt Fire - 2008
- BTU Complex - 2008
- Finley Fire - 2008
- County Line
- County Line





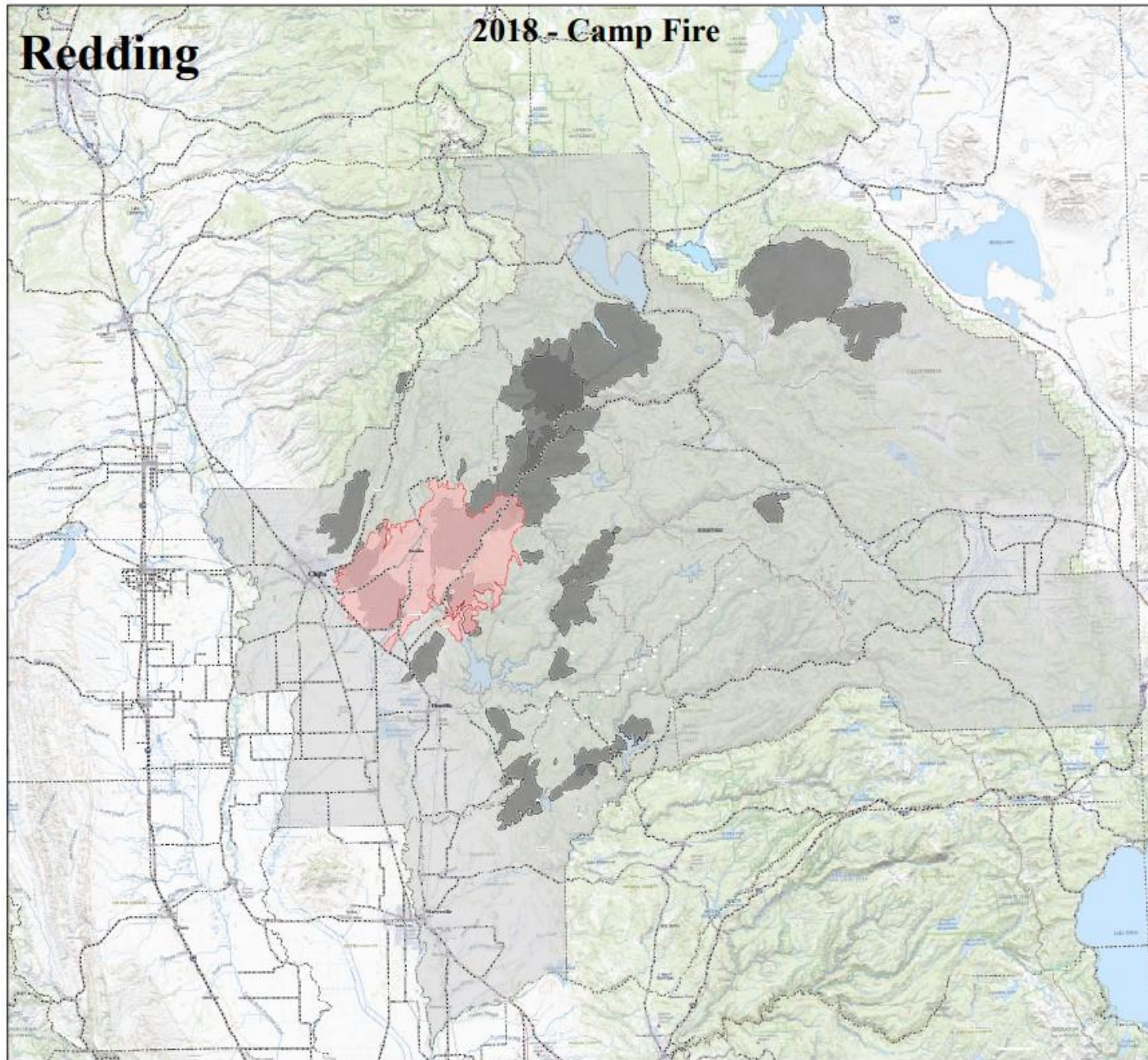
Redding

2018 - Camp Fire

608,326

Legend

- ca_hwy_100k
- Camp Fire_2018
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Storrie Fire - 2000
- Poe Fire - 2001
- Wheeler Fire - 2007
- Moonlight Fire - 2007
- Humboldt Fire - 2008
- BTU Complex - 2008
- Finley Fire - 2008
- Chips Fire - 2012
- Wall_Pond_Cherokee - 2017
- LaPorte/Cascade Fire - 2017
- County Line
- County Line



0 2.755.5 11 Miles



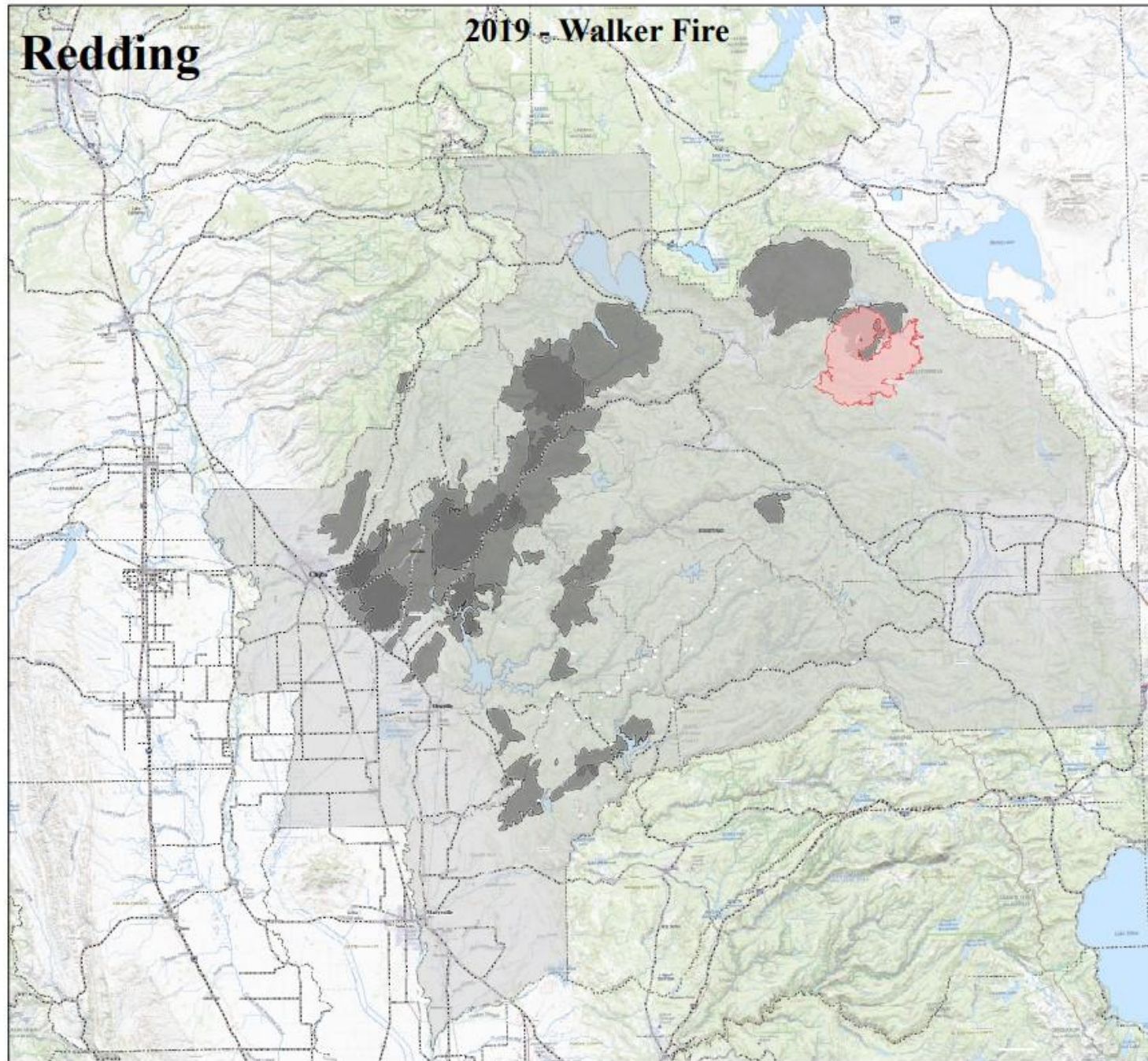
Redding

2019 - Walker Fire

662,941

Legend

- ca_hwy_100k
- Walker Fire - 2019
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Storrie Fire - 2000
- Poe Fire - 2001
- Wheeler Fire - 2007
- Moonlight Fire - 2007
- Humboldt Fire - 2008
- BTU Complex - 2008
- Finley Fire - 2008
- Chips Fire - 2012
- Wall_Pond_Cherokee - 2017
- LaPorte/Cascade Fire - 2017
- Camp Fire_2018
- County Line

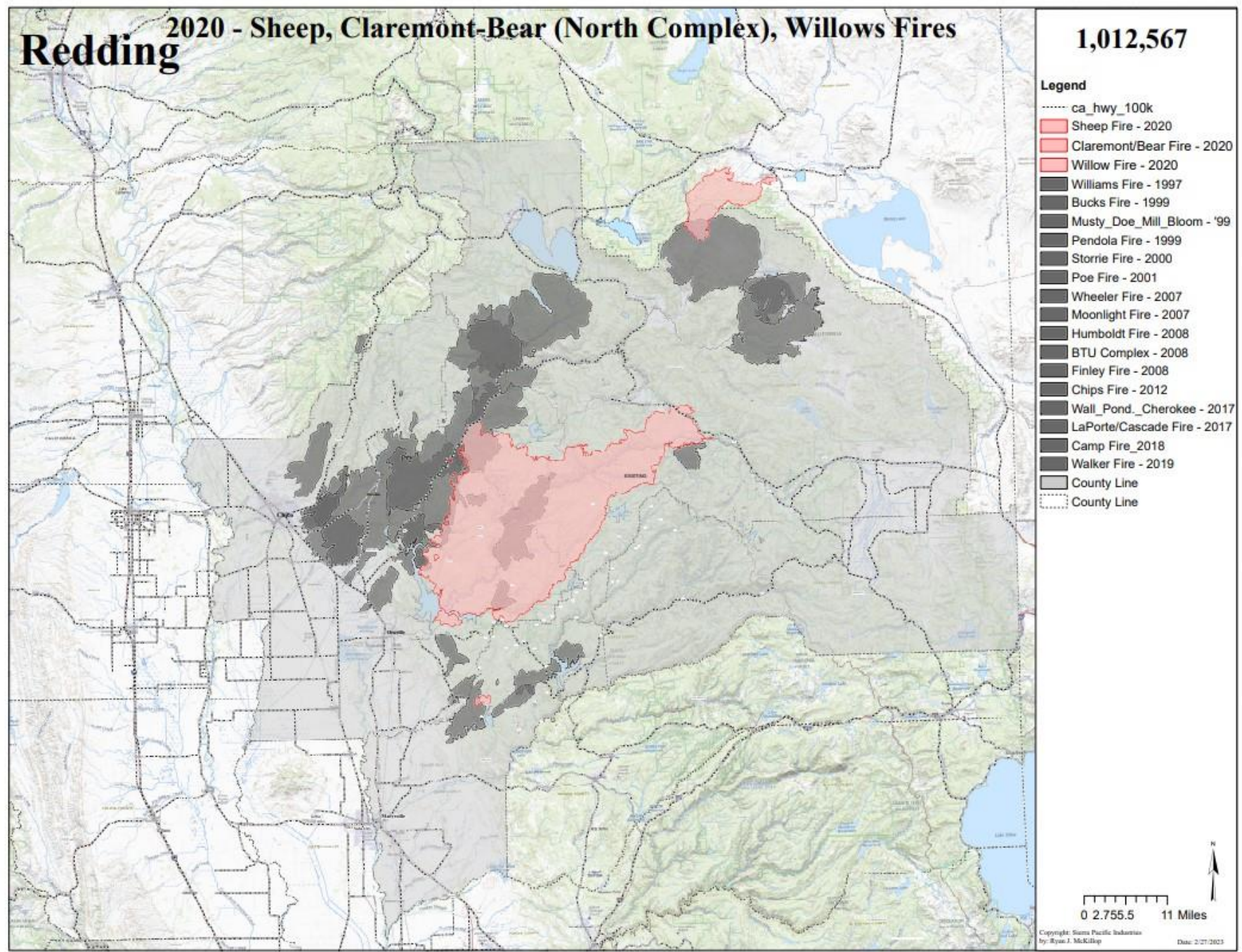


0 2.755.5 11 Miles

2020 - Sheep, Claremont-Bear (North Complex), Willows Fires

Redding

1,012,567



Redding

2021 - Sugar, Dixie, Glen Fires

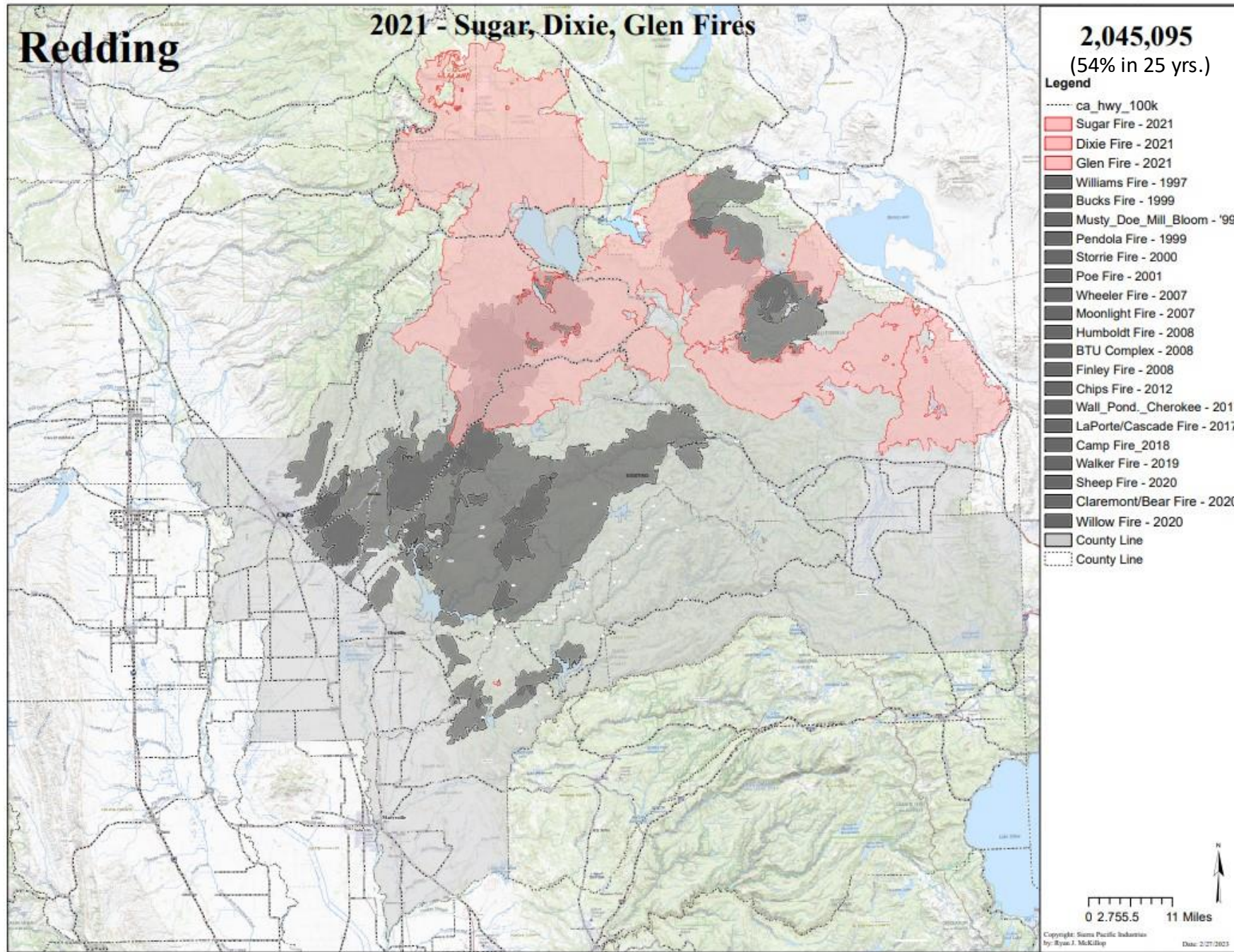
2,045,095
(54% in 25 yrs.)

Legend

- ca_hwy_100k
- Sugar Fire - 2021
- Dixie Fire - 2021
- Glen Fire - 2021
- Williams Fire - 1997
- Bucks Fire - 1999
- Musty_Doe_Mill_Bloom - '99
- Pendola Fire - 1999
- Storrie Fire - 2000
- Poe Fire - 2001
- Wheeler Fire - 2007
- Moonlight Fire - 2007
- Humboldt Fire - 2008
- BTU Complex - 2008
- Finley Fire - 2008
- Chips Fire - 2012
- Wall_Pond_Cherokee - 2017
- LaPorte/Cascade Fire - 2017
- Camp Fire_2018
- Walker Fire - 2019
- Sheep Fire - 2020
- Claremont/Bear Fire - 2020
- Willow Fire - 2020
- County Line
- County Line

0 2.755.5 11 Miles

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by: Ryan J. McKelvey Date: 2/21/2023



NEW YORK TIMES BESTSELLER

TIMOTHY EGAN

AUTHOR OF THE NATIONAL BOOK AWARD-WINNING

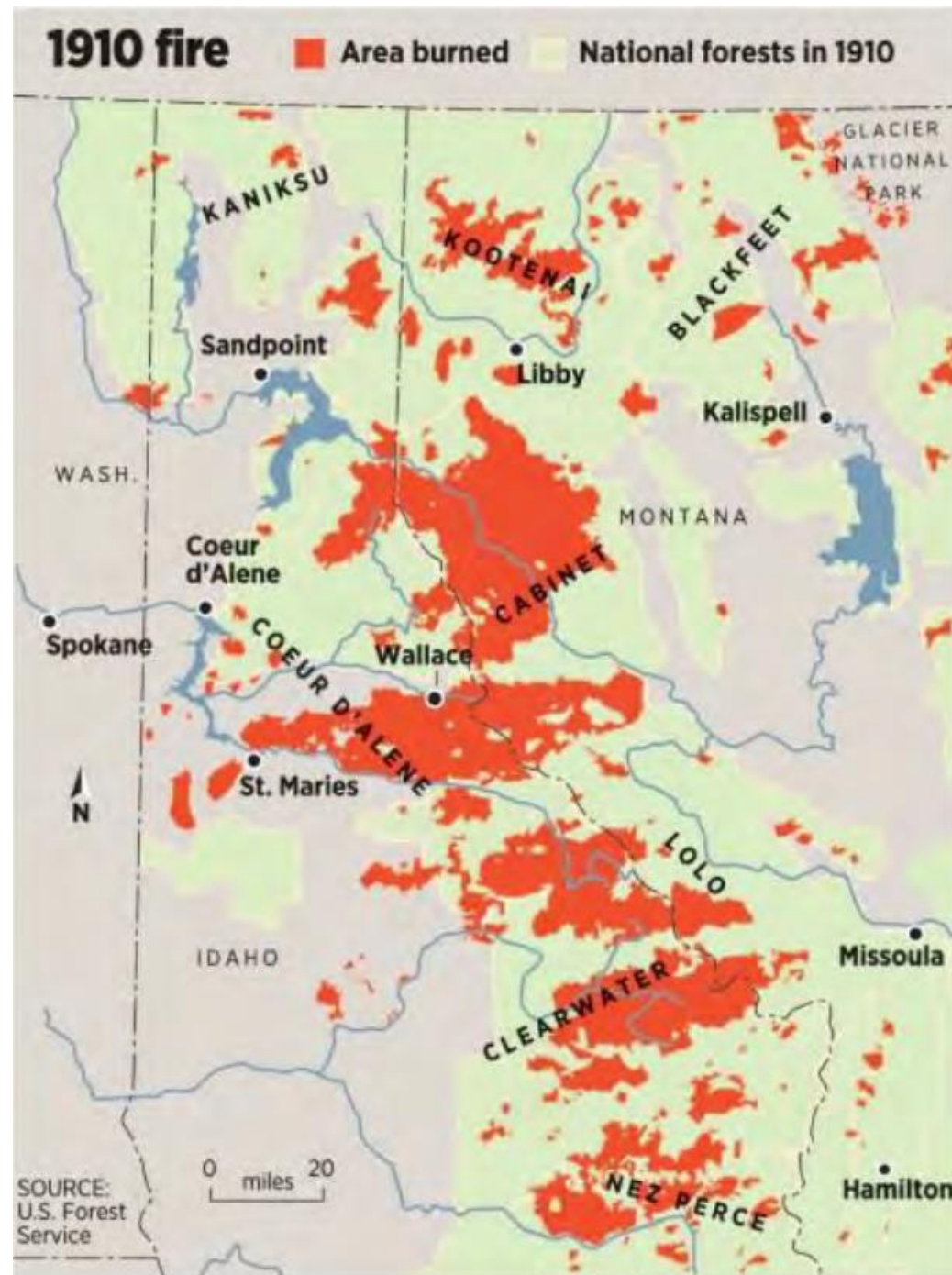
The Worst Hard Time

The
**BIG
BURN**

"In prose so sizzling it crackles,
The Big Burn keeps alive the
conservation dreams of Teddy
Roosevelt by allowing this story
to rise from the ashes, once
again." —DENVER POST

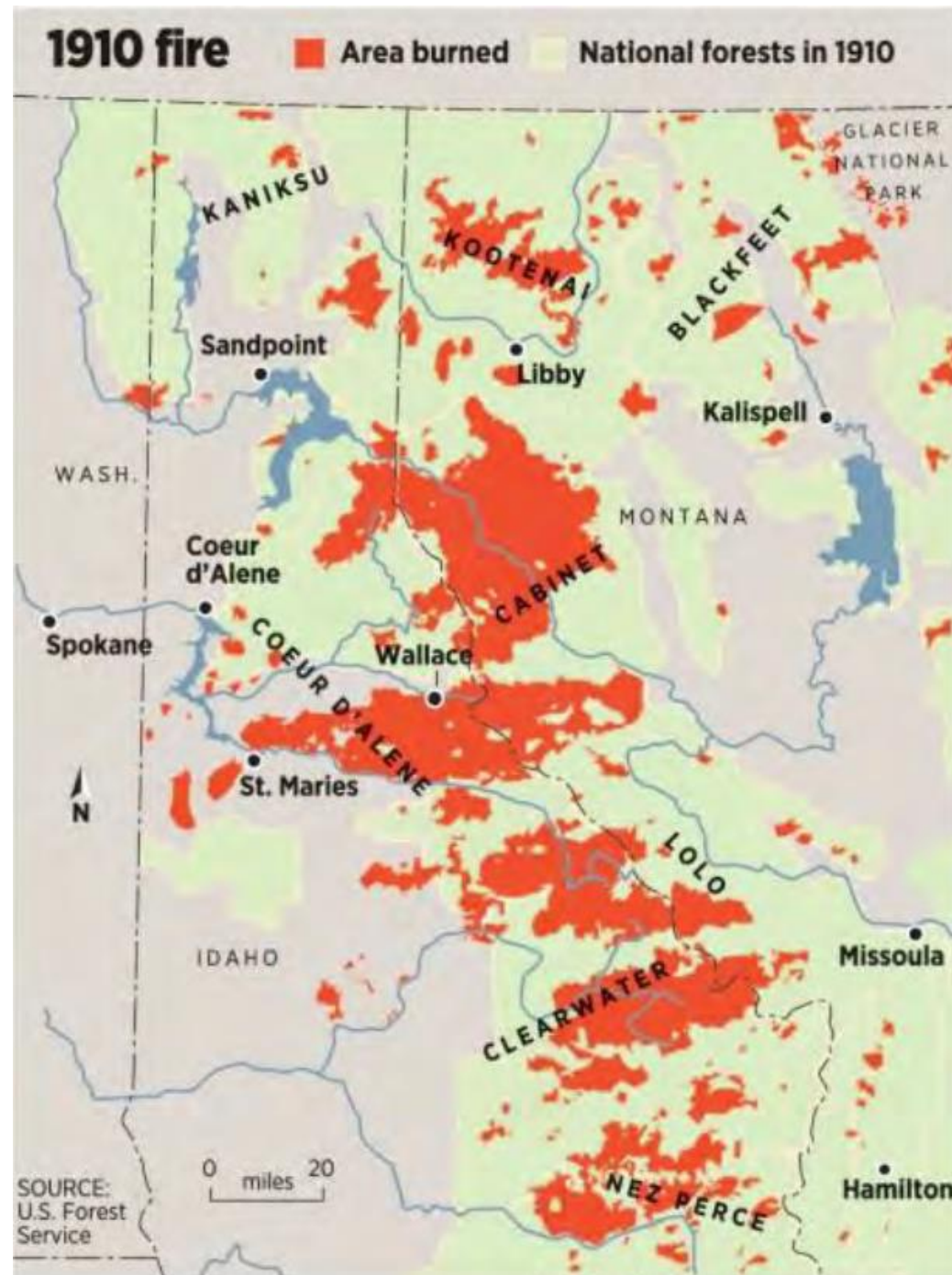


Destroy TEDDY ROOSEVELT
& THE FIRE THAT SAVED AMERICA



The Great Fire of 1910:

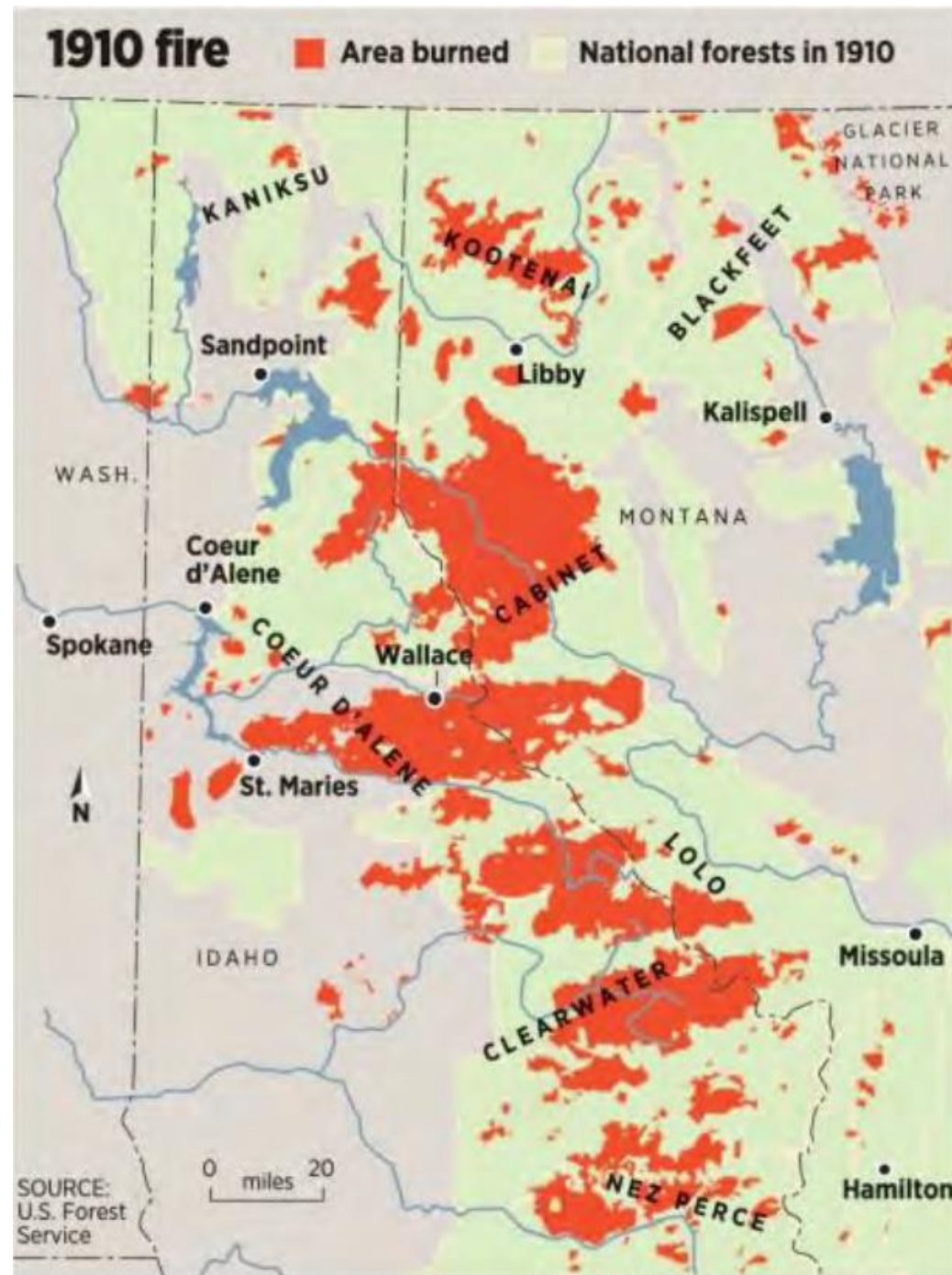
That Summer, hundreds of small, mostly controlled fires burning in the area, human & natural causes.



The Great Fire of 1910:

That Summer, hundreds of small, mostly controlled fires burning in the area, human & natural causes.

On afternoon of Aug. 20, a “Palouser” wind swept across this area from eastern Washington with sustained hurricane force winds.

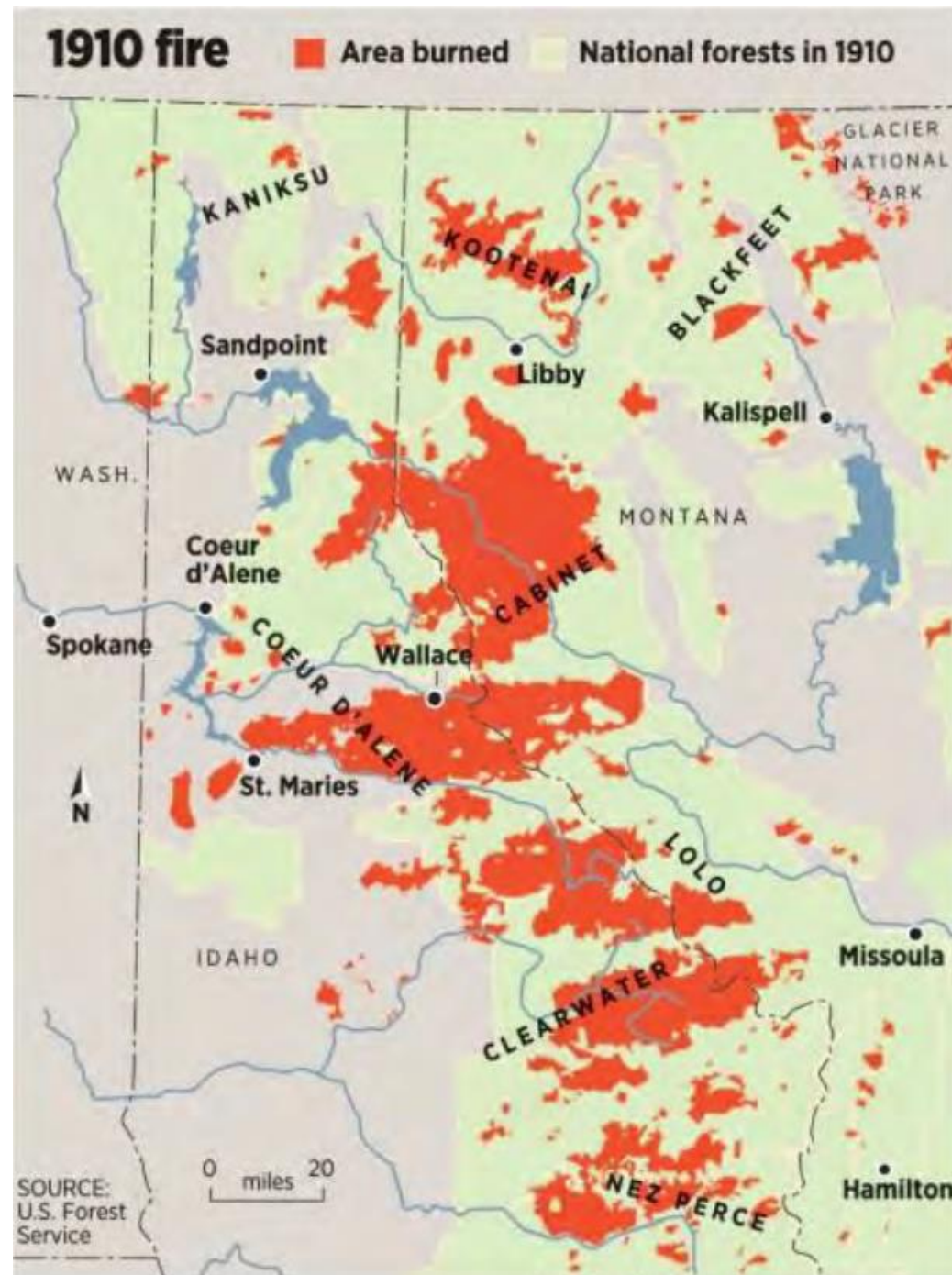


The Great Fire of 1910:

That Summer, hundreds of small, mostly controlled fires burning in the area, human & natural causes.

On afternoon of Aug. 20, a “Palouser” wind swept across this area from eastern Washington with sustained hurricane force winds.

Over 3 million acres (public & private) burnt in 36 hours, most of it in a 6 hour period. Parts of 9 Nat. Forests destroyed. 86 deaths (78 were firefighters). Size of Connecticut.



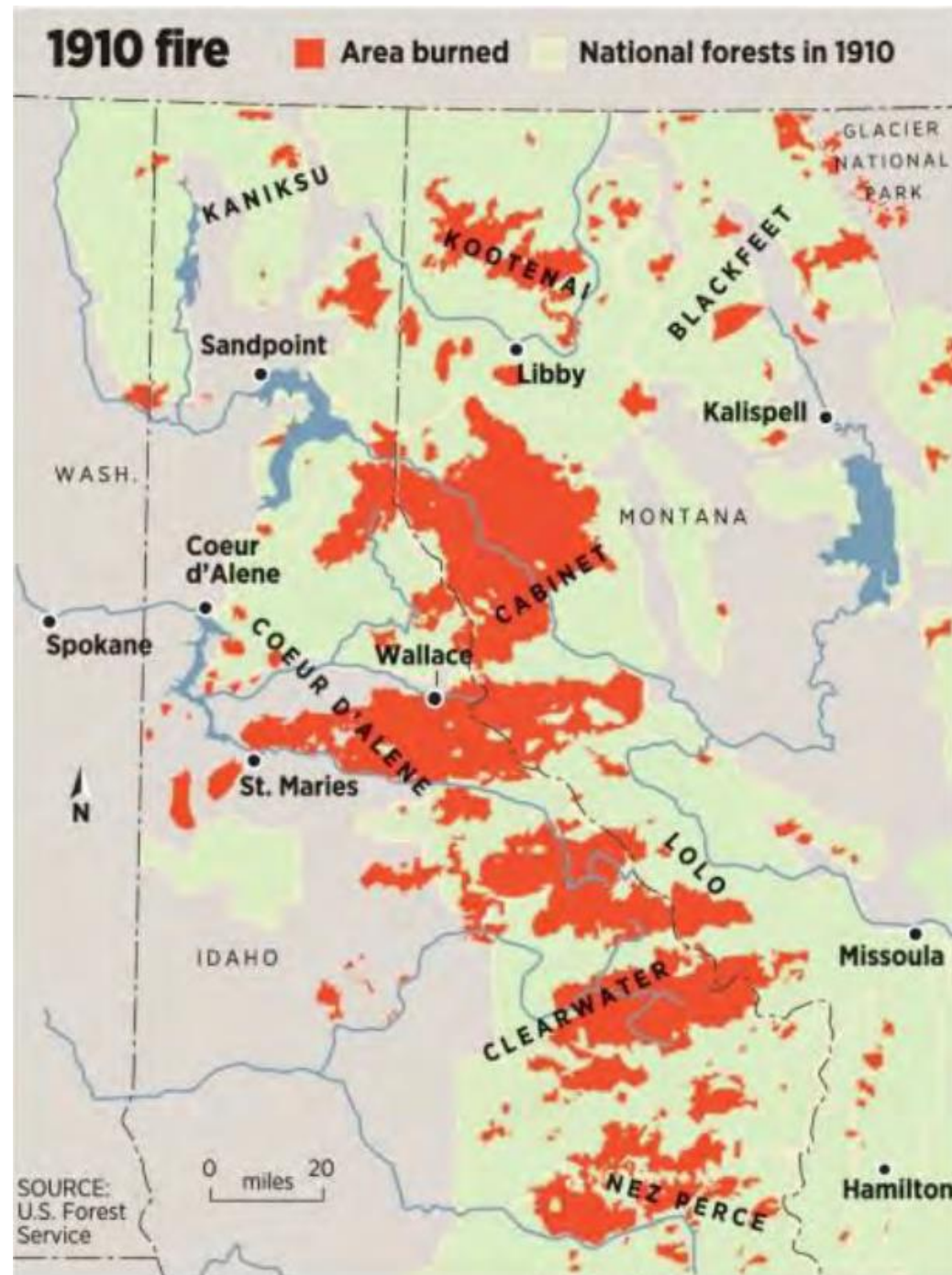
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Long-range spotting up to 50 miles, burning trees ripped out of the ground and deposited in ravines.



The Great Fire of 1910:

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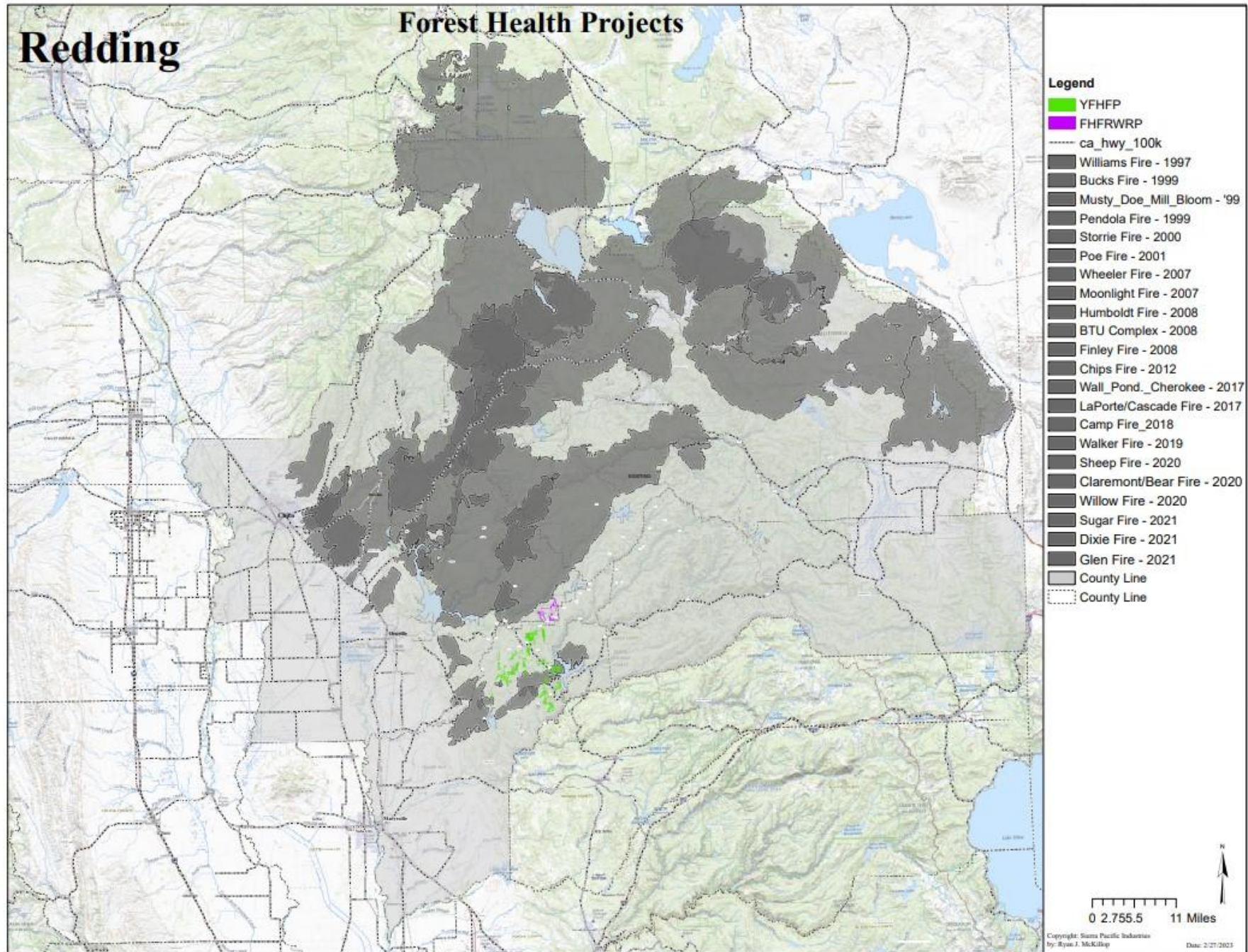
Over 3 million acres (public & private) burnt in 36 hours, most of it in a 6 hour period. Parts of 9 Nat. Forests destroyed. 86 deaths (78 were firefighters). Size of Connecticut.

Long-range spotting up to 50 miles, burning trees ripped out of the ground and deposited in ravines.

Ash fell as far away as Iceland.

Redding

Forest Health Projects



What makes
our program
possible?

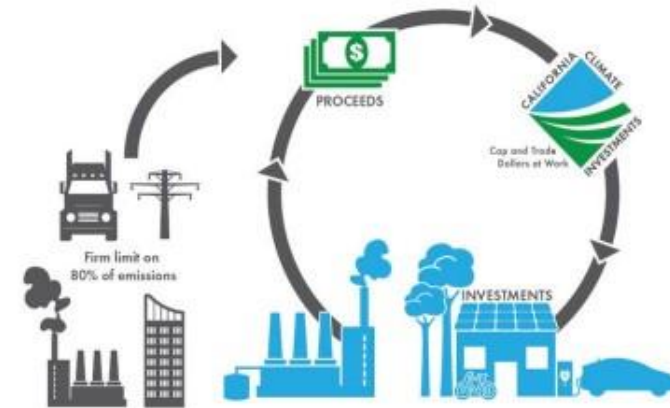
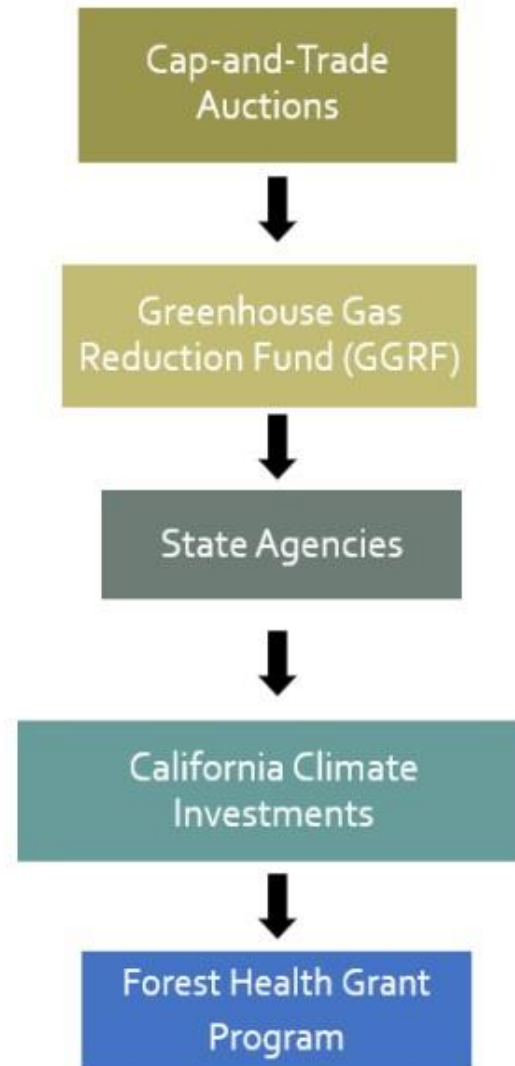


Figure courtesy of CARB



Forest Health Program



The Forest Health Program awards funding to landscape-scale land management projects that achieve the following objectives:

- Restore forest health and disaster resilience
- Protect upper watershed
- Promote long-term storage of carbon
- Minimize the loss of forest carbon
- Further the goals of the California Forest Carbon Plan, California's Natural and Working Lands Implementation Plan, and Assembly Bill 32 Climate Change Scoping Plan.

Forest Health Program

Project Eligibility



Priority projects will implement a mix of these activities:

- Forest fuels reduction
- Prescribed fire
- Pest management
- Reforestation
- Biomass utilization



Forest Health

Project Eligibility



- Eligible Organization and Partners:
 - Local, state, and federal public agencies
 - Native American tribes
 - Universities
 - Special districts
 - Industrial and non-industrial private forest landowners
 - Non-profit 501(c)(3) organizations
- Collaborative, public-private partnerships
- Leverage resources to achieve an outcome larger than sum of individual projects
- Use existing agreements to demonstrate cooperation: Good Neighbor Authority, Prescribed Fire MOU, local agreements.

Forest Health

Eligibility



- Project Scale
 - Landscape Scale
 - Multiple activities across multiple ownership types
 - >800 acres
- Funding Limits
 - Minimum of \$750,000
 - Maximum of \$5 million
- Readiness
 - Applicant agrees to meet environmental compliance within first year and **complete project by March 31, 2026**

Forest Health

Application Scoring

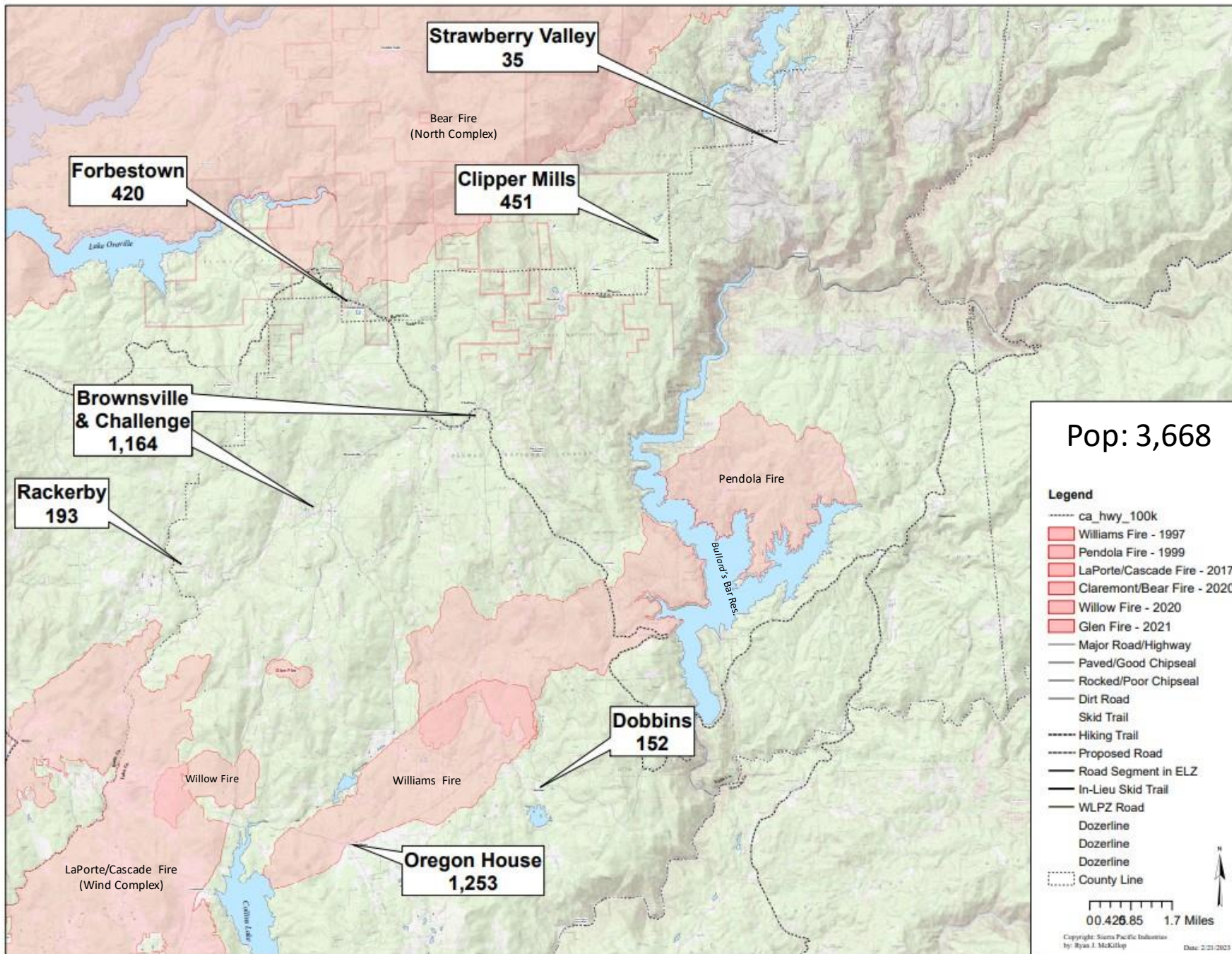


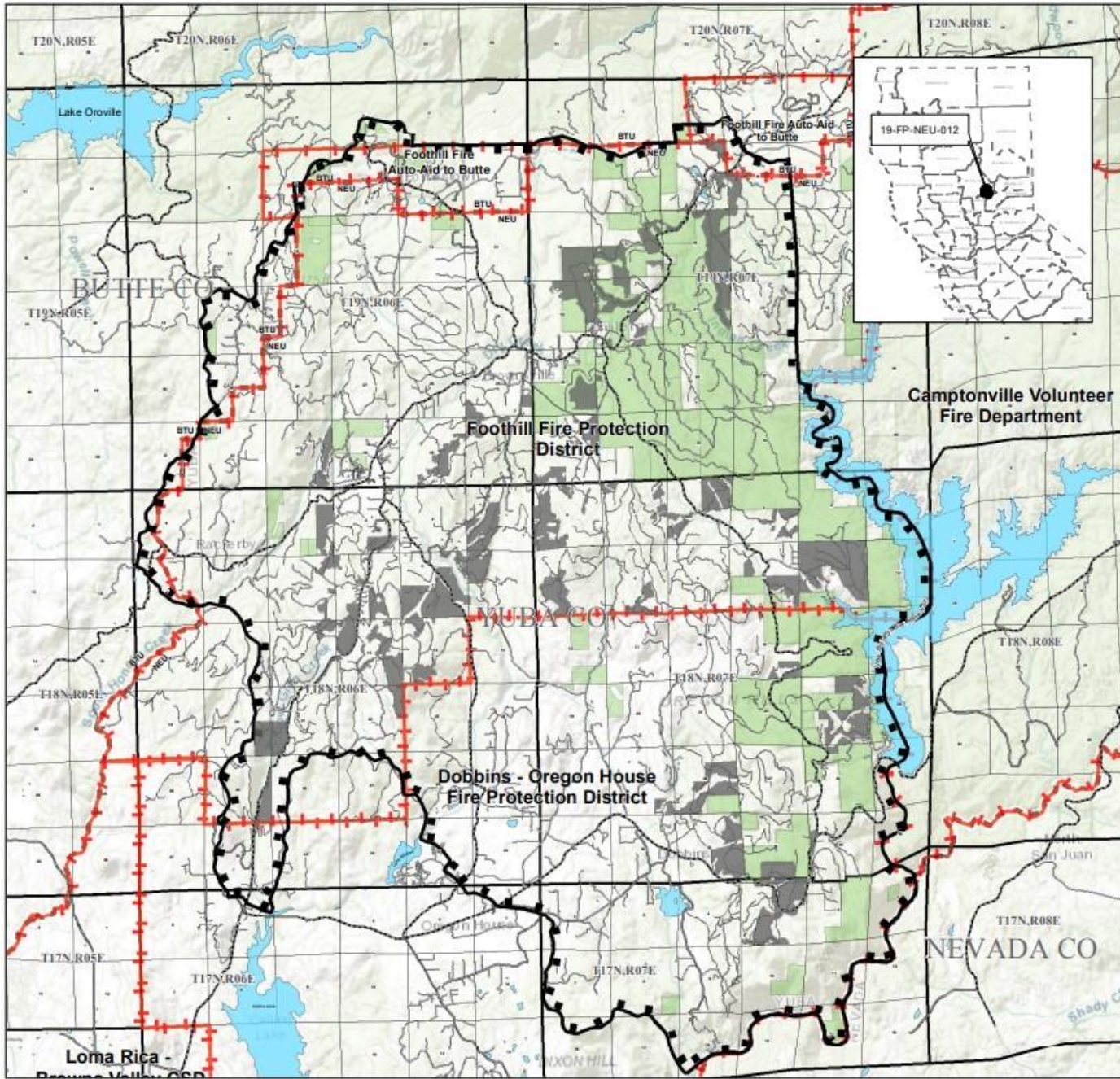
Grant Selection Criteria	
Category	Points
Scope of Work	15 points
Project Work Plan	5 points
Budget	10 points
Long Term Forest Management Goals	5 points
Net Greenhouse Gas (GHG) Benefit	10 points
Priority Landscapes	5 points
Co-Benefits	5 points
Jobs	5 points
Disadvantaged and/or Low-Income Community Benefit	10 points
Local Fire Plan & Other State Plan Compatibility	5 points
Collaboration, Community Engagement and Local Support	10 points
Grantee's Administrative Capacity and Past Forest Management History	10 points
Readiness and Legal Requirements	5 points
TOTAL	100 points

Environmental Compliance



- Proof of all environmental compliance (“EC”) required within one year of grant agreement being executed.
- Grant may fund EC costs.
- Who will be the lead agency?
 - If applicant is a public agency, they will assume the role of lead agency.
 - If the applicant is not a public agency, CAL FIRE may assume the role of lead agency.
- Project work completed on Federal lands must comply with NEPA.
 - SB 901 waiver has not been renewed for 2022 yet
 - If Forest Health Program is funding a project on federal land, they may also have to complete CEQA, as well as NEPA.



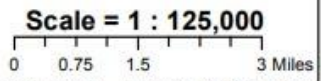


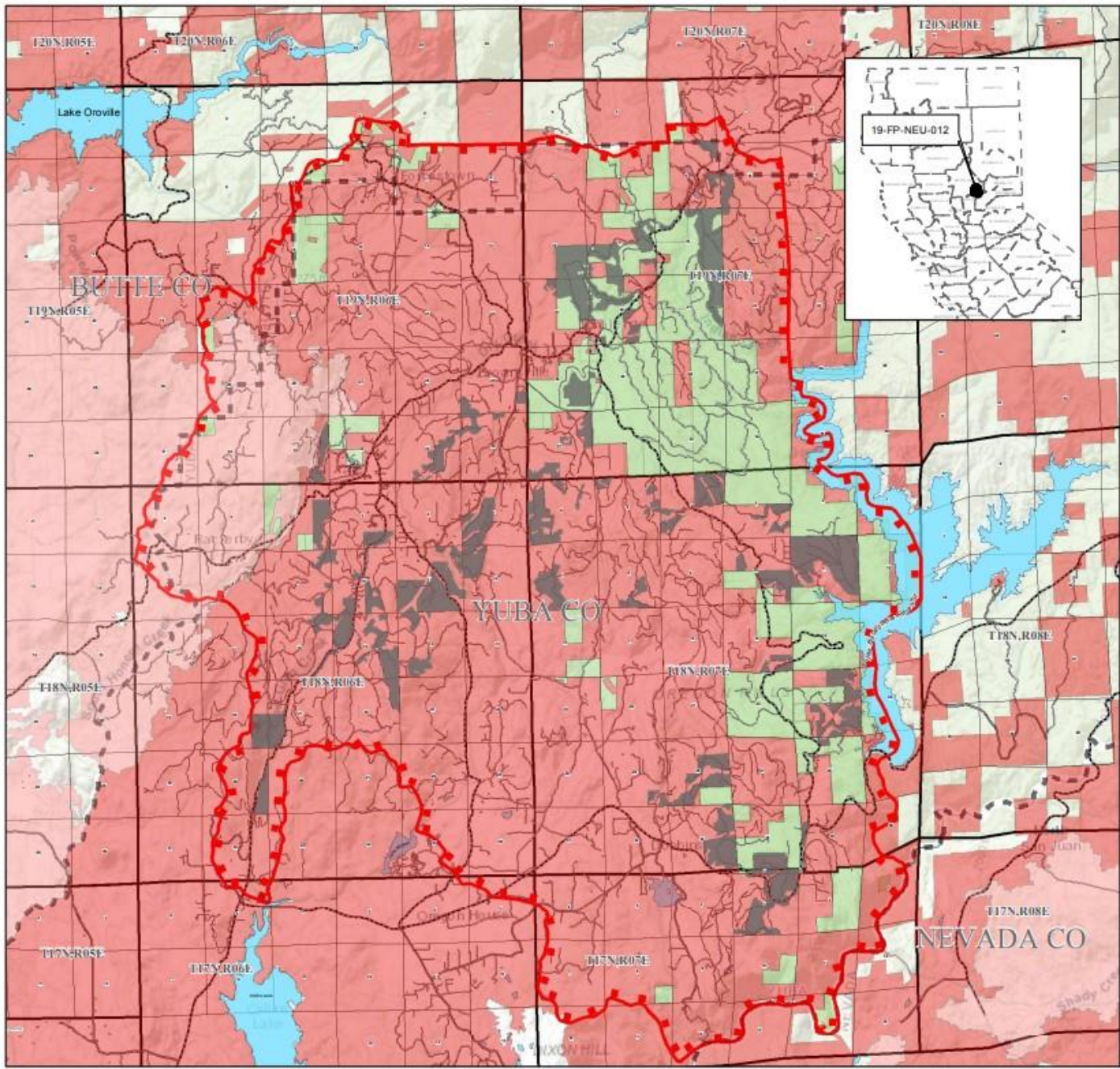
**Yuba Foothills
Healthy Forest
Project
(19-FH-NEU-012)**

**with Volunteer
Fire District Boundaries
&
Response Areas**

- Legend**
- Project Influence Zone (FH)
 - 19-FH-NEU-012 Project Boundary
 - FRA (all other SRA)
 - Major Road/Highway
 - Paved/Good Chipseal
 - Rocked/Poor Chipseal
 - Dirt Road
 - Dirt Road
 - Dirt Road
 - Lake/Pond
 - Local Fire Districts
 - Township&Range
 - Sections
 - County Line

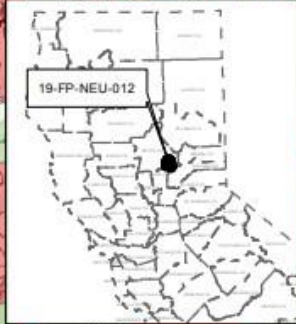
Project Proponent:
Yuba Water Agency





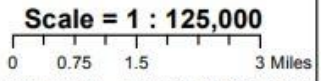
**Yuba Foothills
Healthy Forest
Project
(19-FH-NEU-012)**

**with Fire Hazard
Severity Rating**



- Legend**
- - - Project Influence Zone (FH)
 - 19-FH-NEU-012 Project Boundary
 - Very High Severity
 - High Severity
 - FRA (all other SRA)
 - Major Road/Highway
 - Paved/Good Chipseal
 - Rocked/Poor Chipseal
 - Dirt Road
 - Dirt Road
 - Dirt Road
 - Lake/Pond
 - Township&Range
 - Sections
 - County Line

**Project Proponent:
Yuba Water Agency**



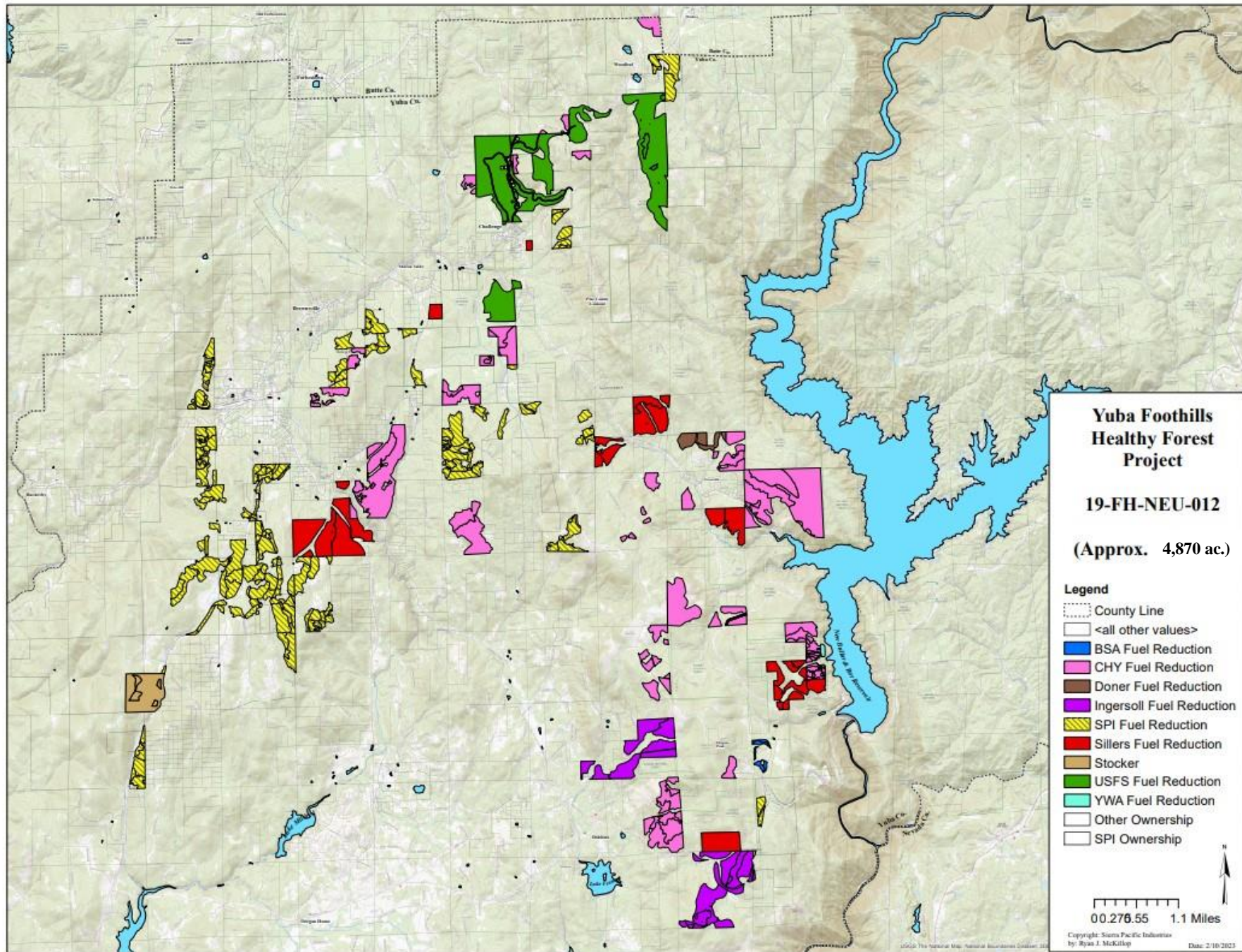
FH Project Approx.
62% Completed
(3,000 ac.)

USFS portion is
about 75%
complete.

SPI Portion 34%
complete,
(significant amount
is follow-up spray).

CHY portion is 78%
complete.

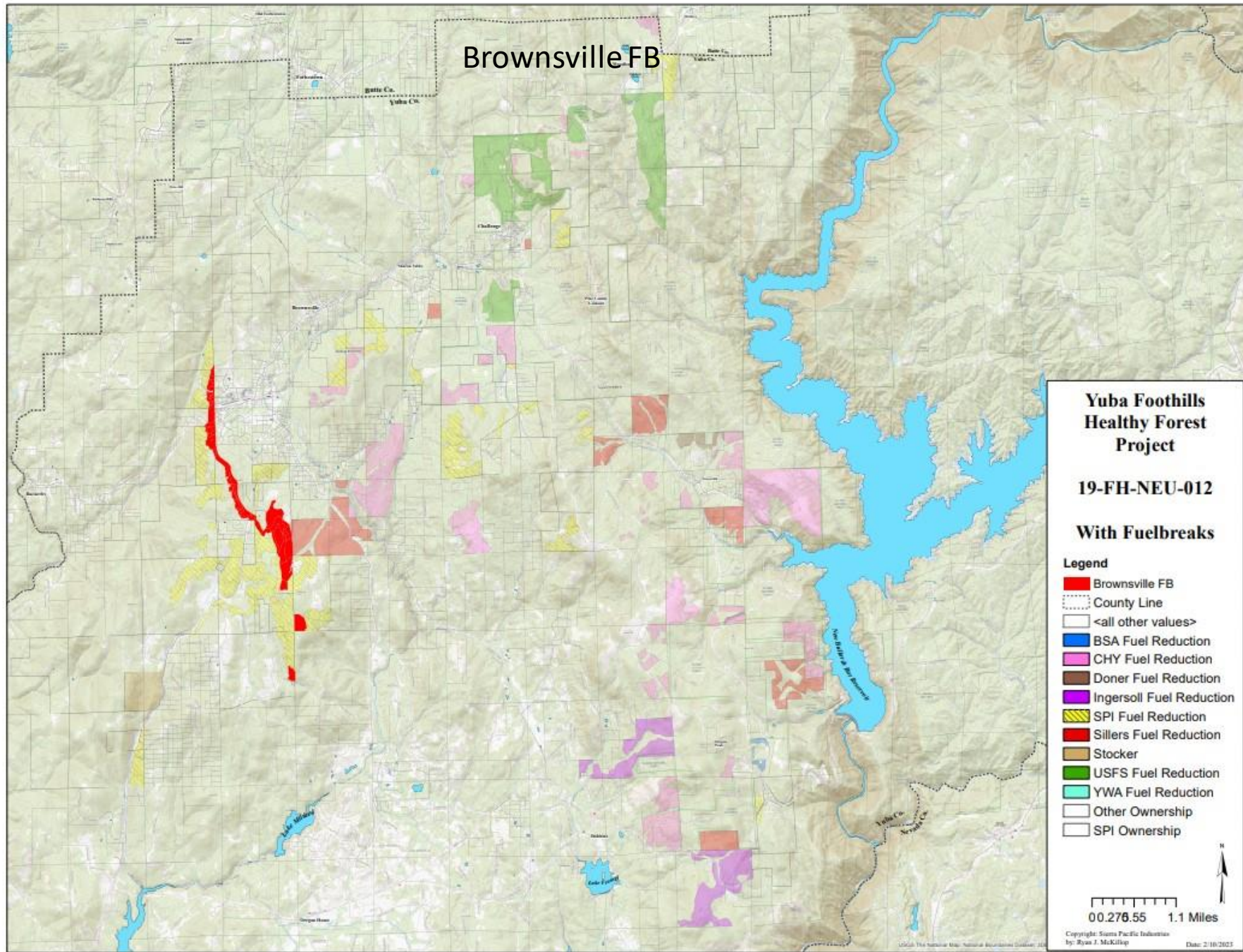
Siller's portion is
60% complete.



SPI - Forest Health Grant Cost Matrix

Treat_Ann	CT	BC	S	M	H	HC_P	PCT	B	P	RDMT	Total_Ac
SPI_BC		650									650
SPI_BC/S		650	113								763
SPI_BC/UB		650						400			1050
SPI_CT/BC		650									650
SPI_CT/BC/S		650	113								763
SPI_CT/BC/UB		650						400			1050
SPI_S			113								113
SPI_S/P			113						250		363
SPI_FS			113								113
SPI_UB								400			400
SPI_BC/HM/S		650	113	1000							1763
SPI_BC/LM		650		750							1400
SPI_BC/S/P		650	113						250		1013
SPI_CT/BC		650									650
SPI_H/P/B					150	2000		400			2550
SPI_HC/P/B						2000		400			2400
SPI_H/S/P			113		125				250		488
SPI_HM				1000							1000
SPI_HM/S			113	1000							1113
SPI_XM/S			113	1750							1863
SPI_LM				750							750
SPI_LM/S			113	750							863
SPI_HM/S/P			113	1000					250		1363
SPI_P/B								1875	250		2125
SPI_P/B/S			113			2000		453			2566
SPI_PCT/S			113				125				238
SPI_S/UB			113					240			353

Brownsville FB



Yuba Foothills Healthy Forest Project

19-FH-NEU-012

With Fuelbreaks

Legend

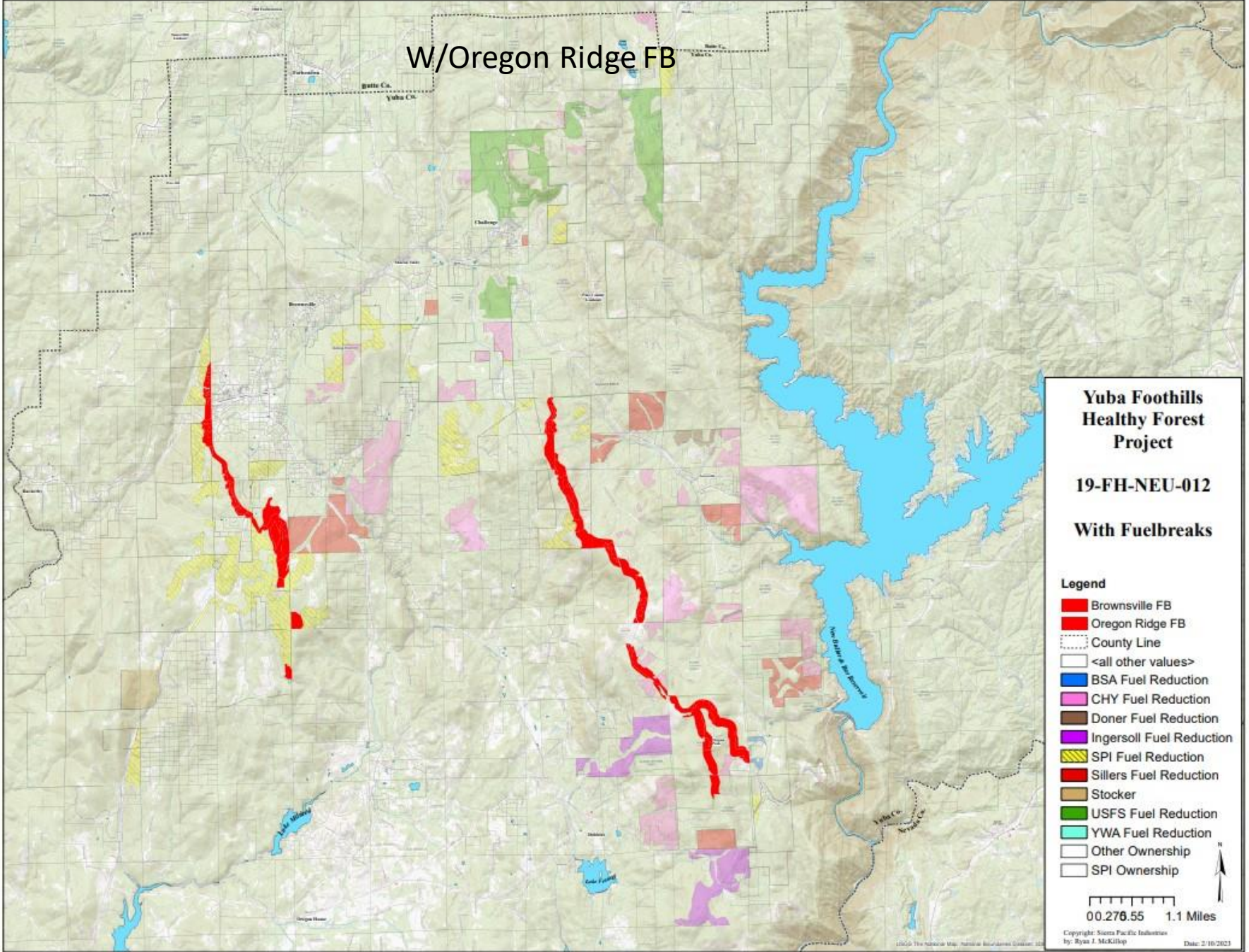
- Brownsville FB
- County Line
- <all other values>
- BSA Fuel Reduction
- CHY Fuel Reduction
- Doner Fuel Reduction
- Ingersoll Fuel Reduction
- SPI Fuel Reduction
- Sillers Fuel Reduction
- Stocker
- USFS Fuel Reduction
- YWA Fuel Reduction
- Other Ownership
- SPI Ownership

0 0.276.55 1.1 Miles

Copyright: Sierra Pacific Industries
by: Ryan J. McKillip Date: 2/16/2023



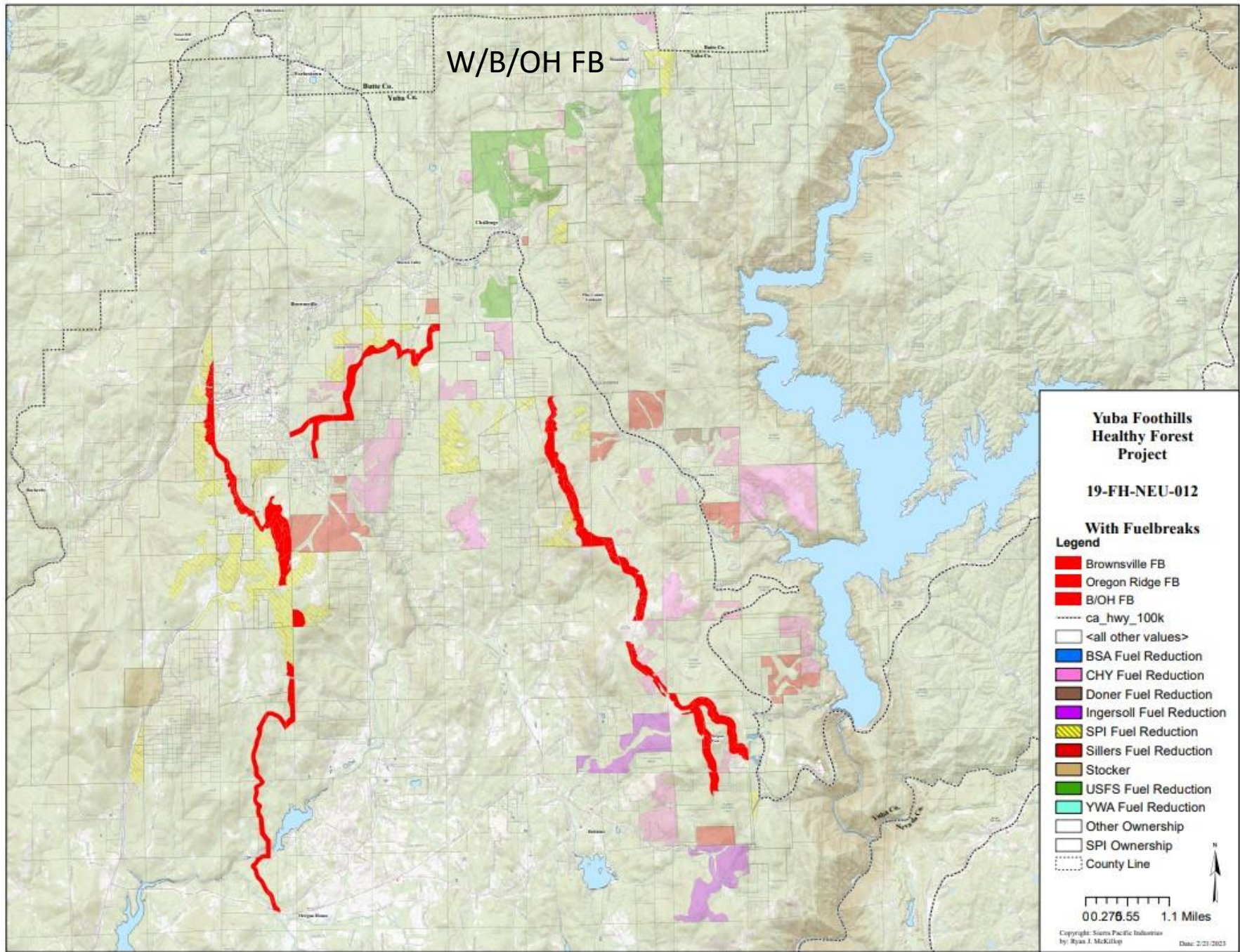
W/Oregon Ridge FB



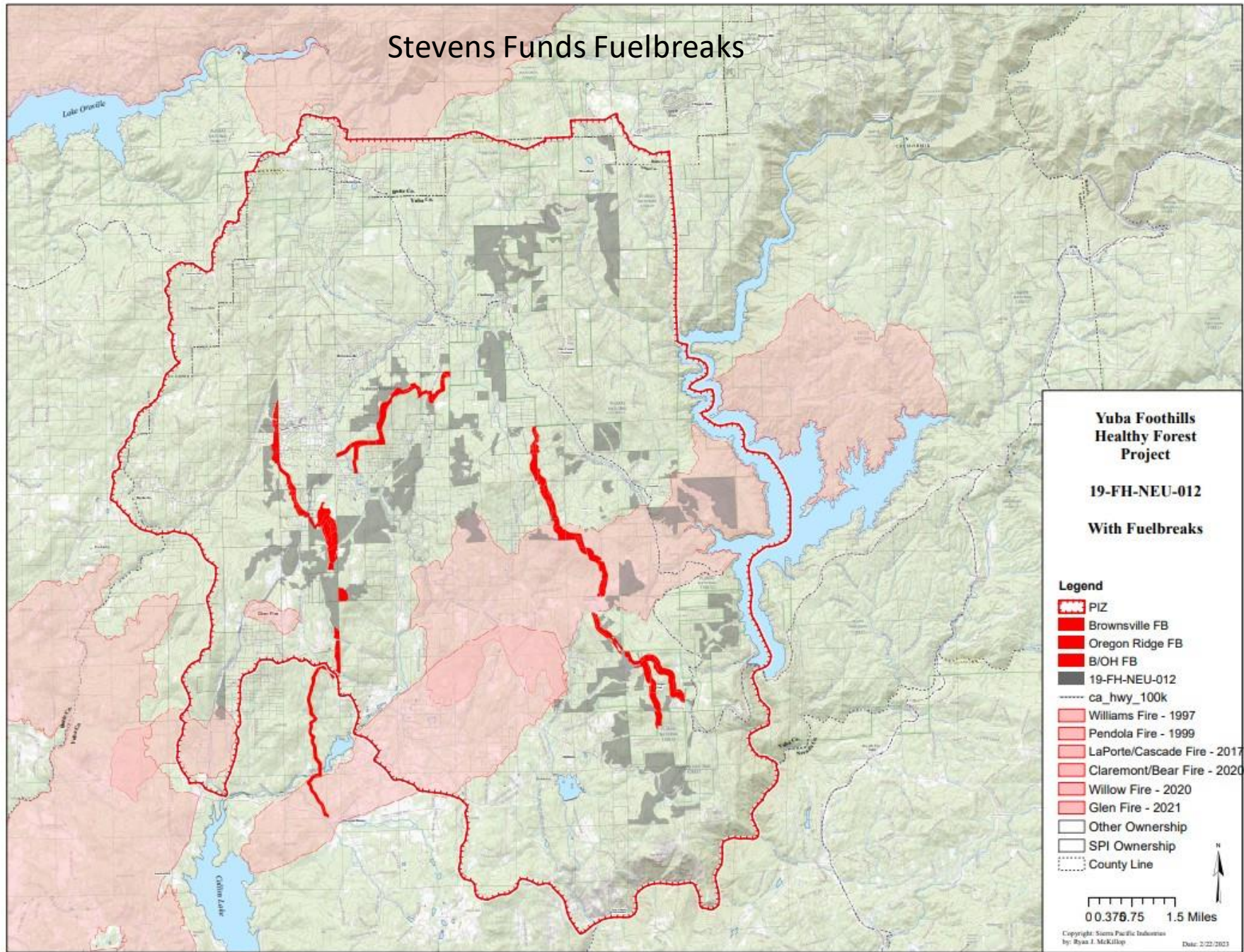
Yuba Foothills Healthy Forest Project 19-FH-NEU-012 With Fuelbreaks

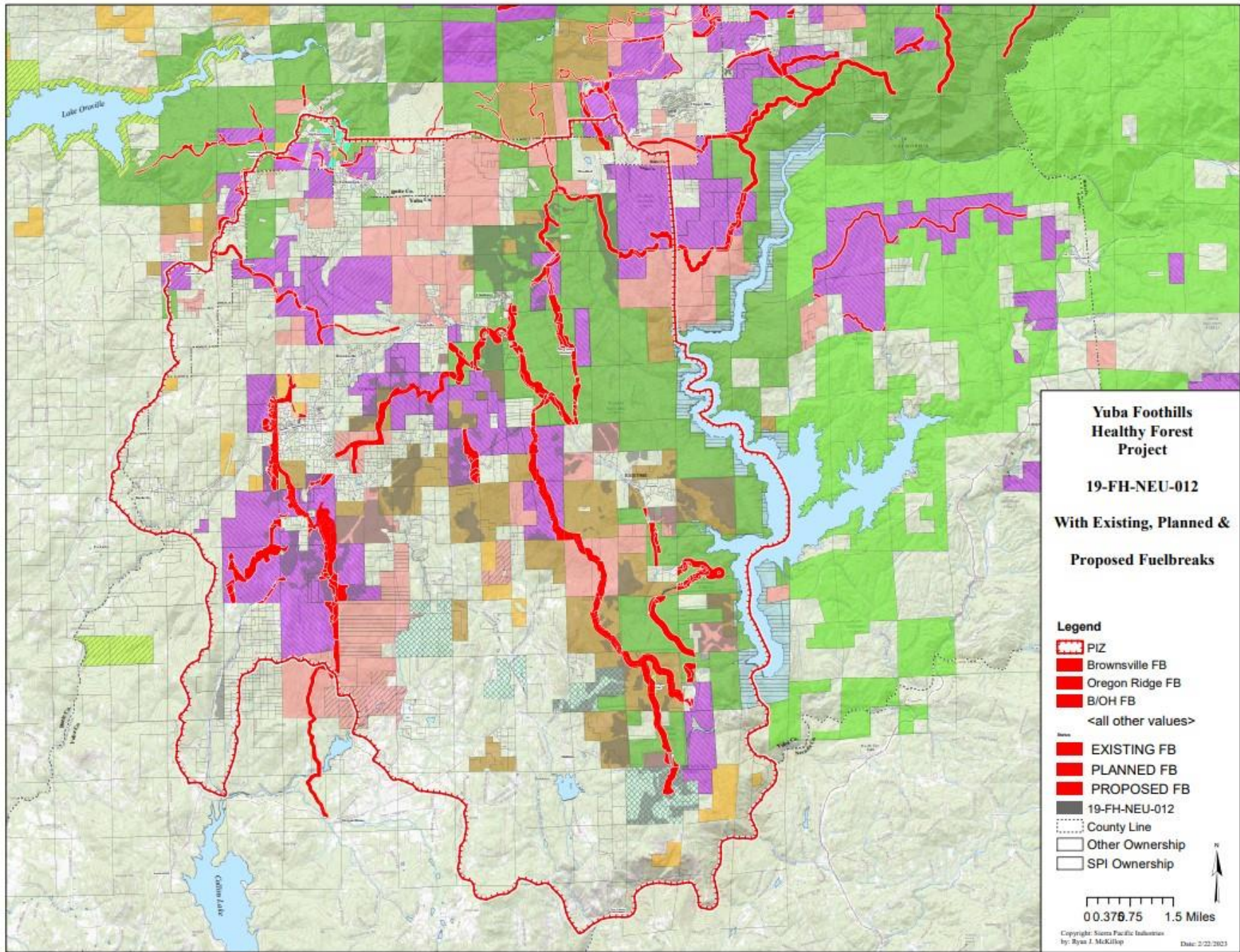
- Legend**
- Brownsville FB
 - Oregon Ridge FB
 - County Line
 - <all other values>
 - BSA Fuel Reduction
 - CHY Fuel Reduction
 - Doner Fuel Reduction
 - Ingersoll Fuel Reduction
 - SPI Fuel Reduction
 - Sillers Fuel Reduction
 - Stocker
 - USFS Fuel Reduction
 - YWA Fuel Reduction
 - Other Ownership
 - SPI Ownership

0 0.276.55 1.1 Miles



Stevens Funds Fuelbreaks

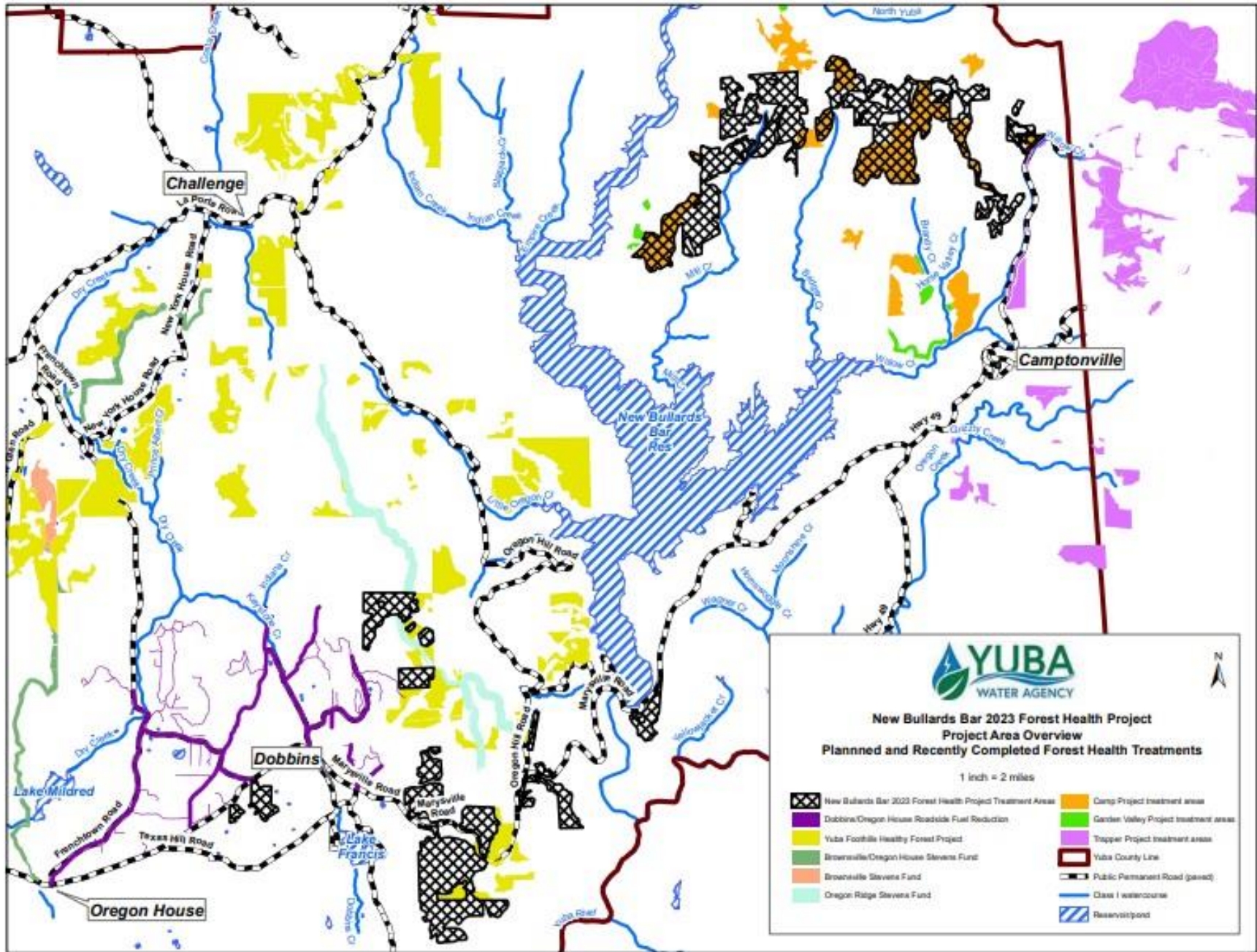




Fuelbreak Maintenance:

- Prescribed Fire (VTP Project?)
- Commercial Harvest w/fuel treatment
- Follow-up Spray
- Future Grant Project work





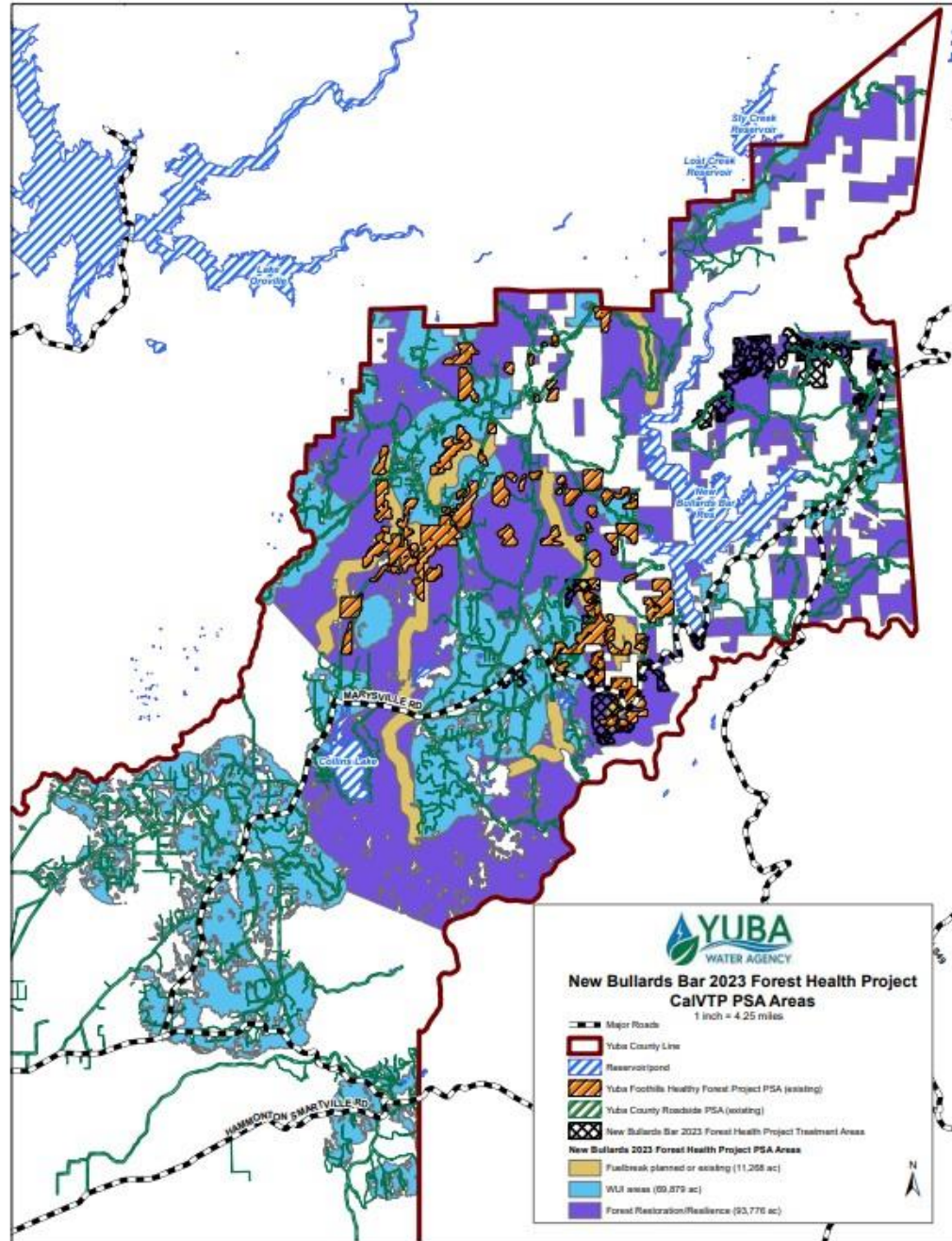
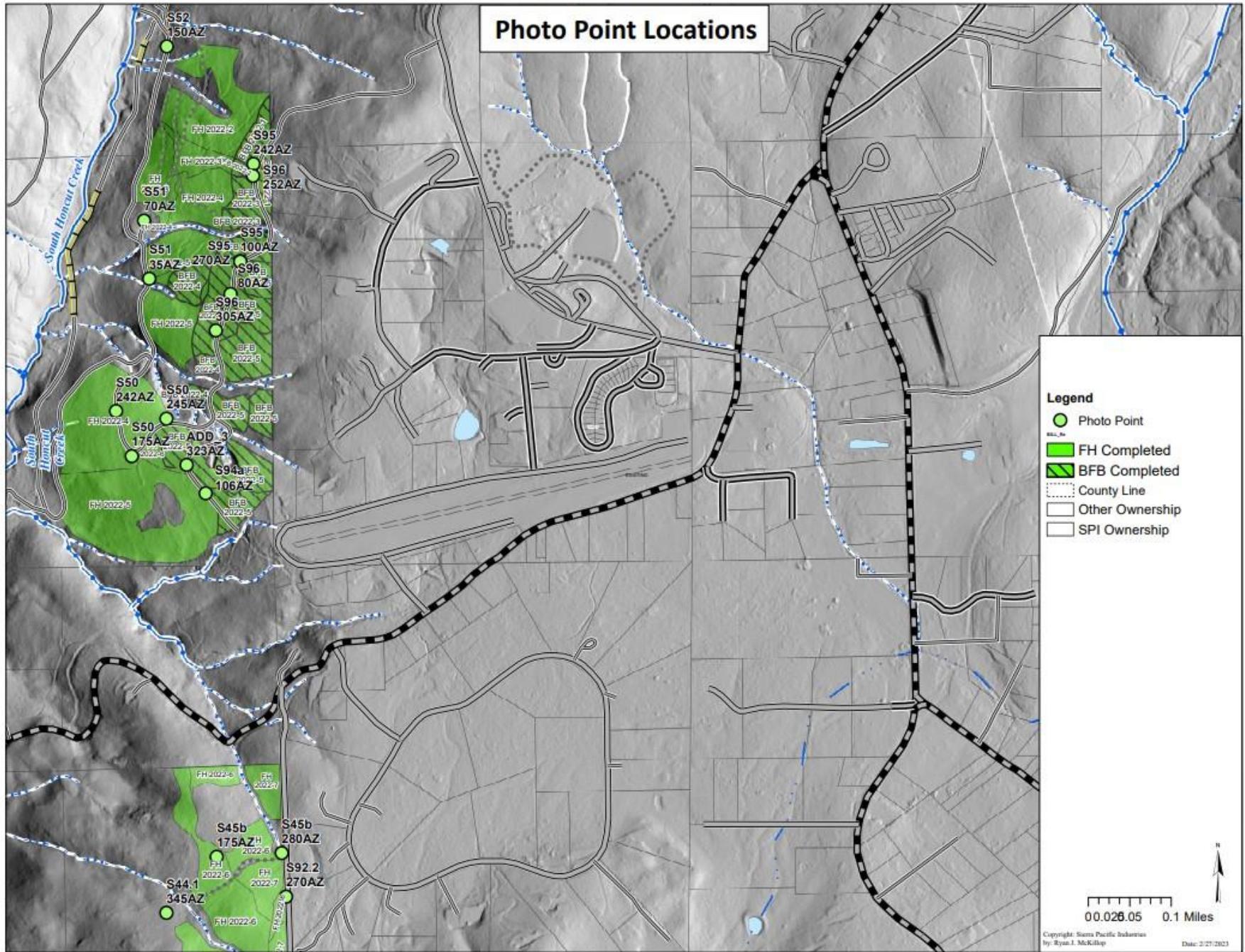


Photo Point Locations



Legend

- Photo Point
- FH Completed
- BFB Completed
- County Line
- Other Ownership
- SPI Ownership

00.02605 0.1 Miles





























Skid-Steer Type



Kubota KX080
(Mini-Ex.)



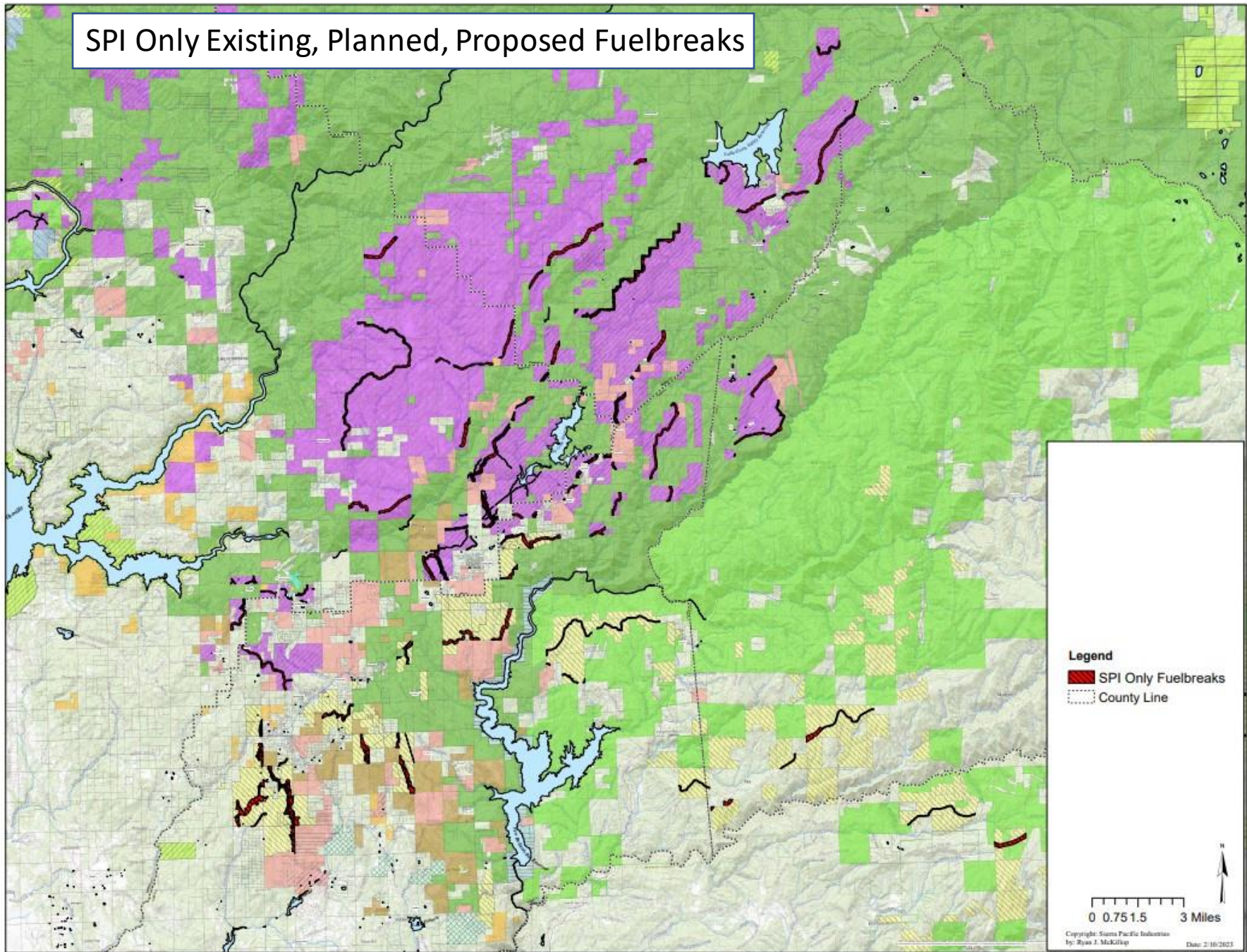
CAT 315C Excavator



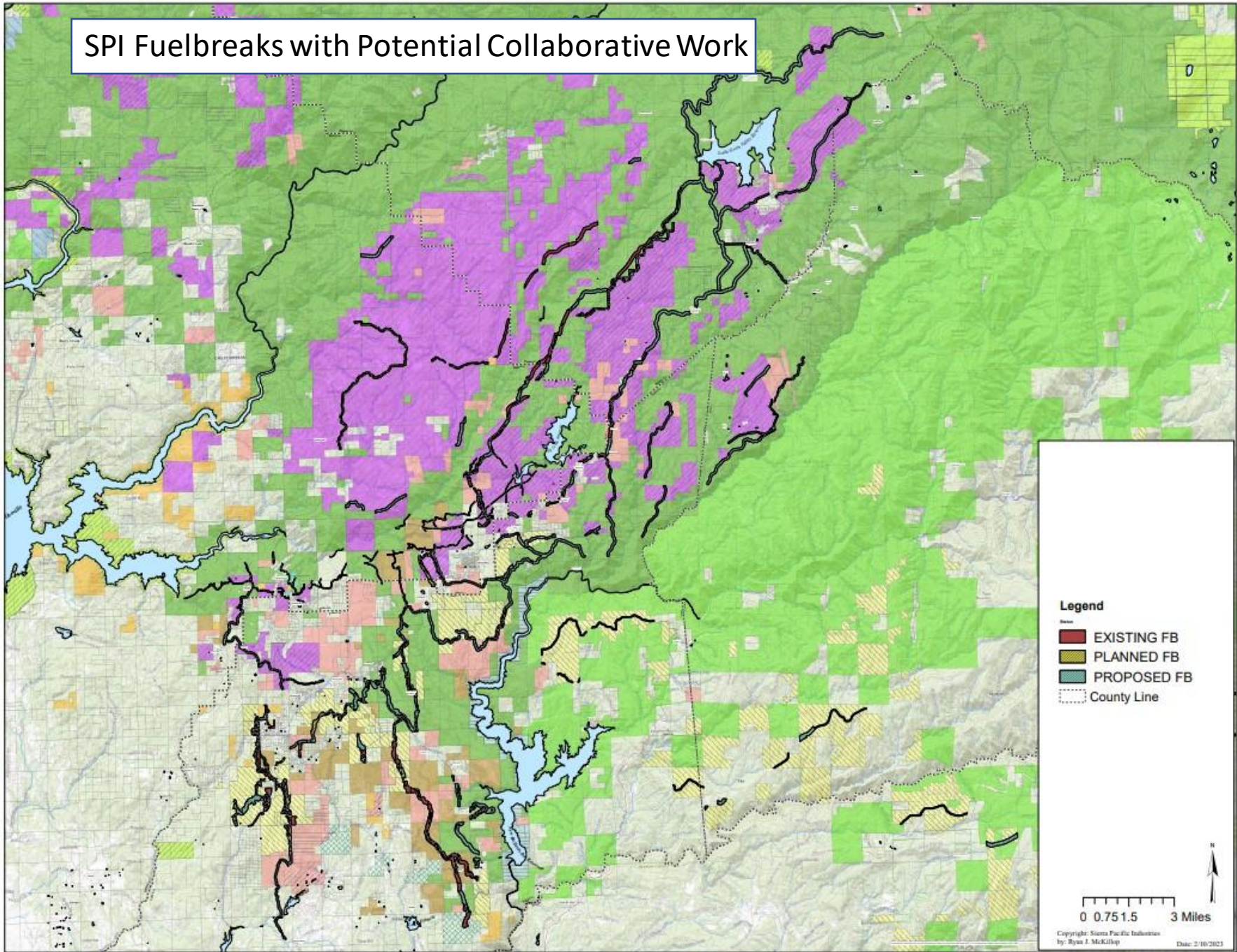
Tiger Cat 480B

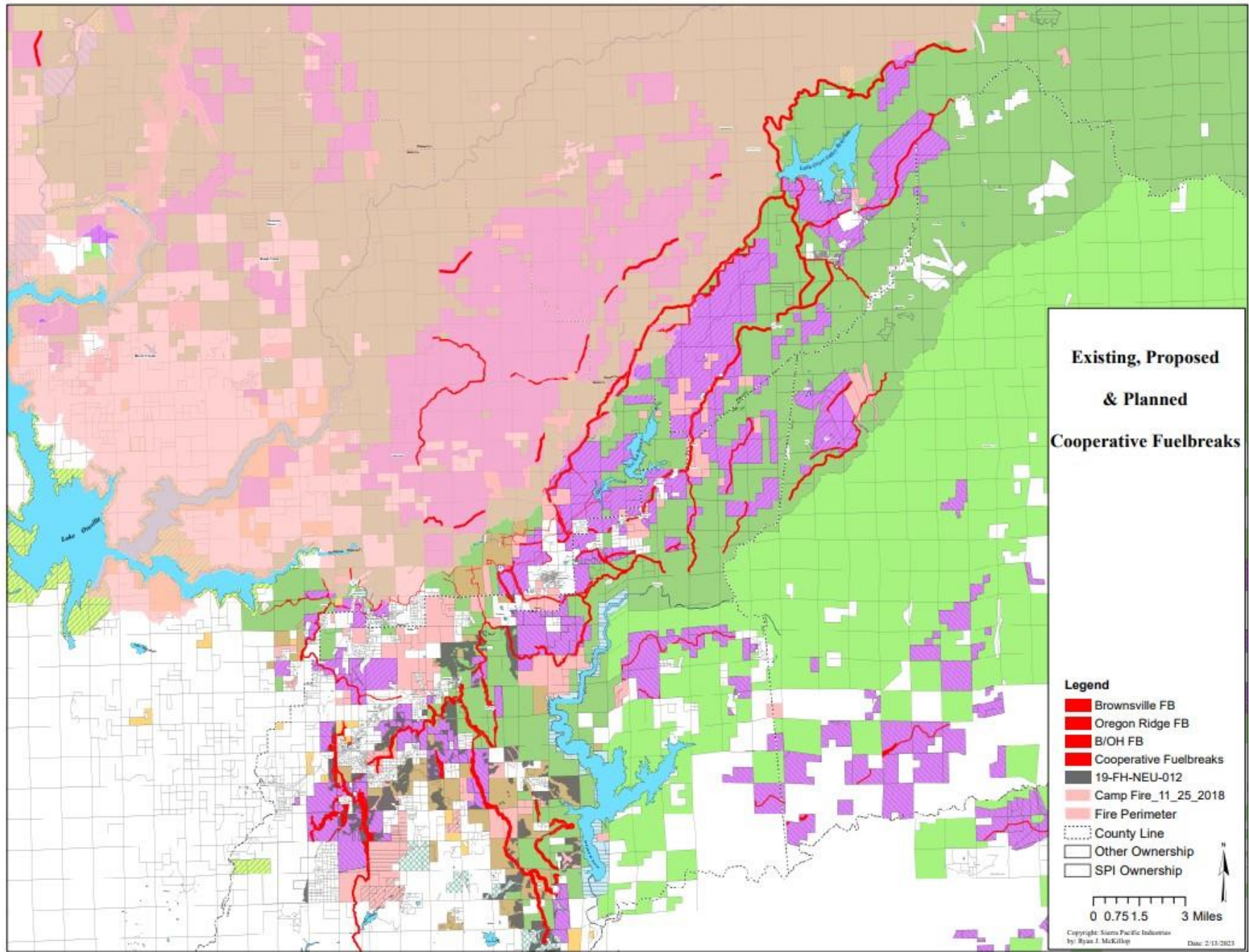


SPI Only Existing, Planned, Proposed Fuelbreaks

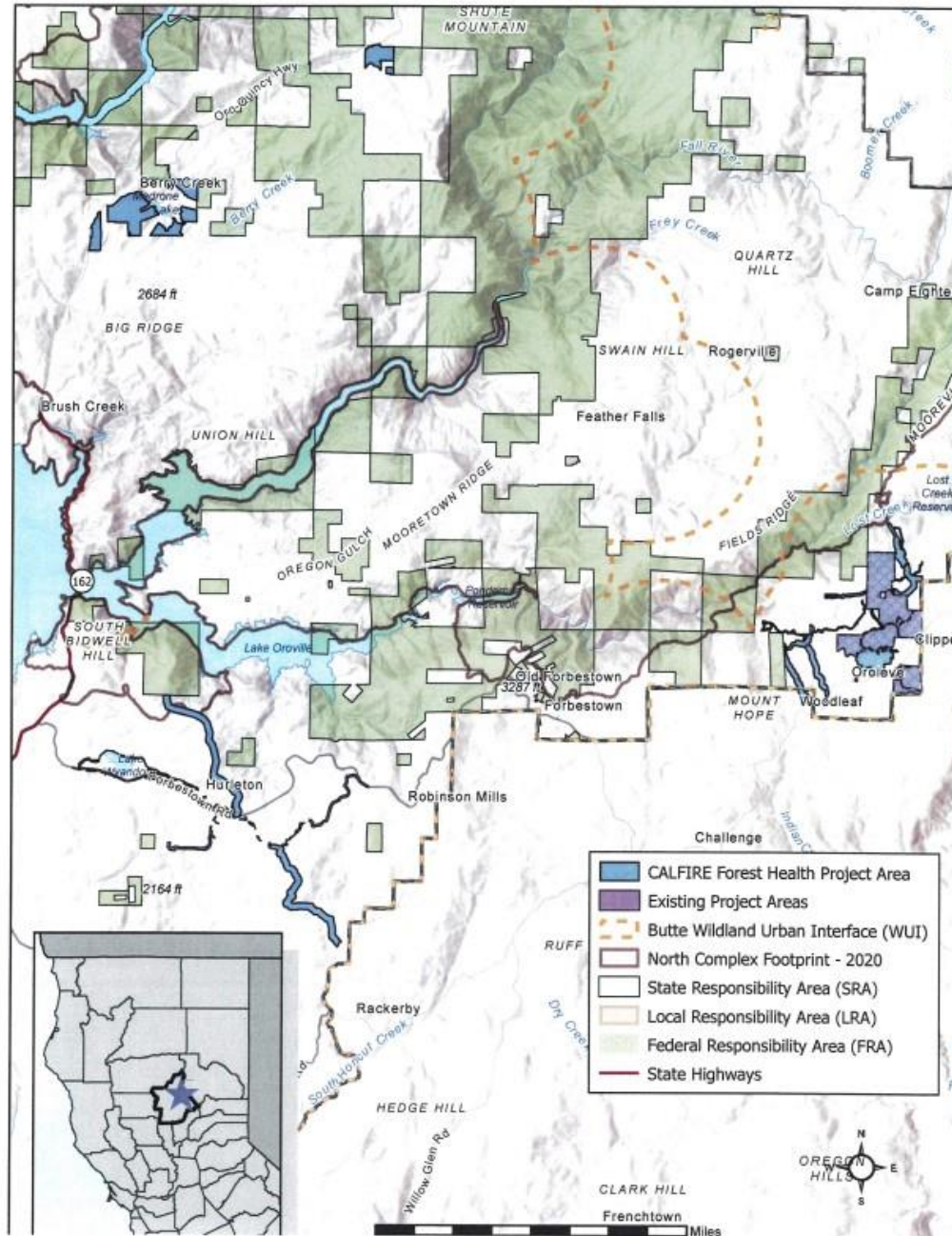


SPI Fuelbreaks with Potential Collaborative Work



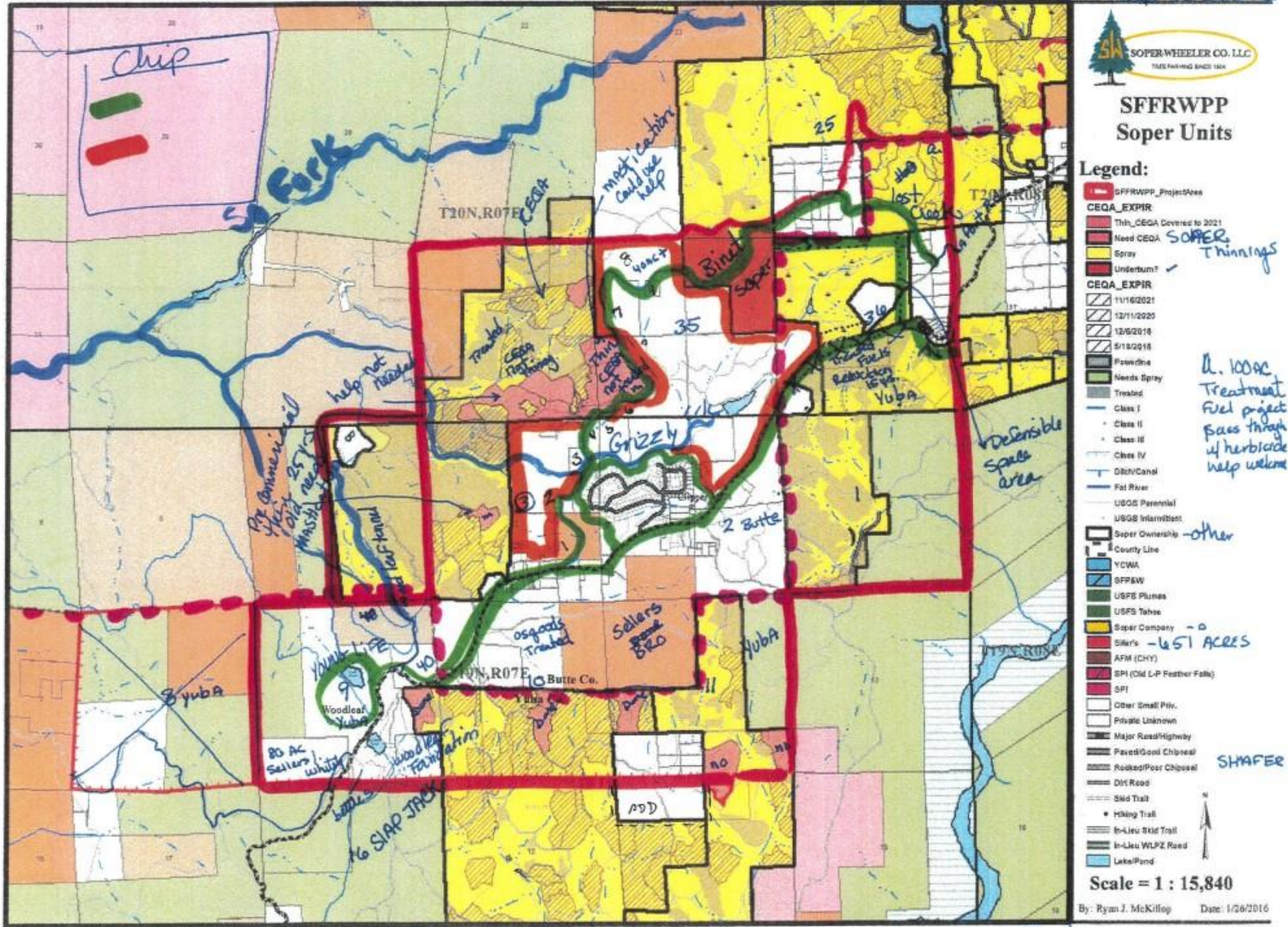


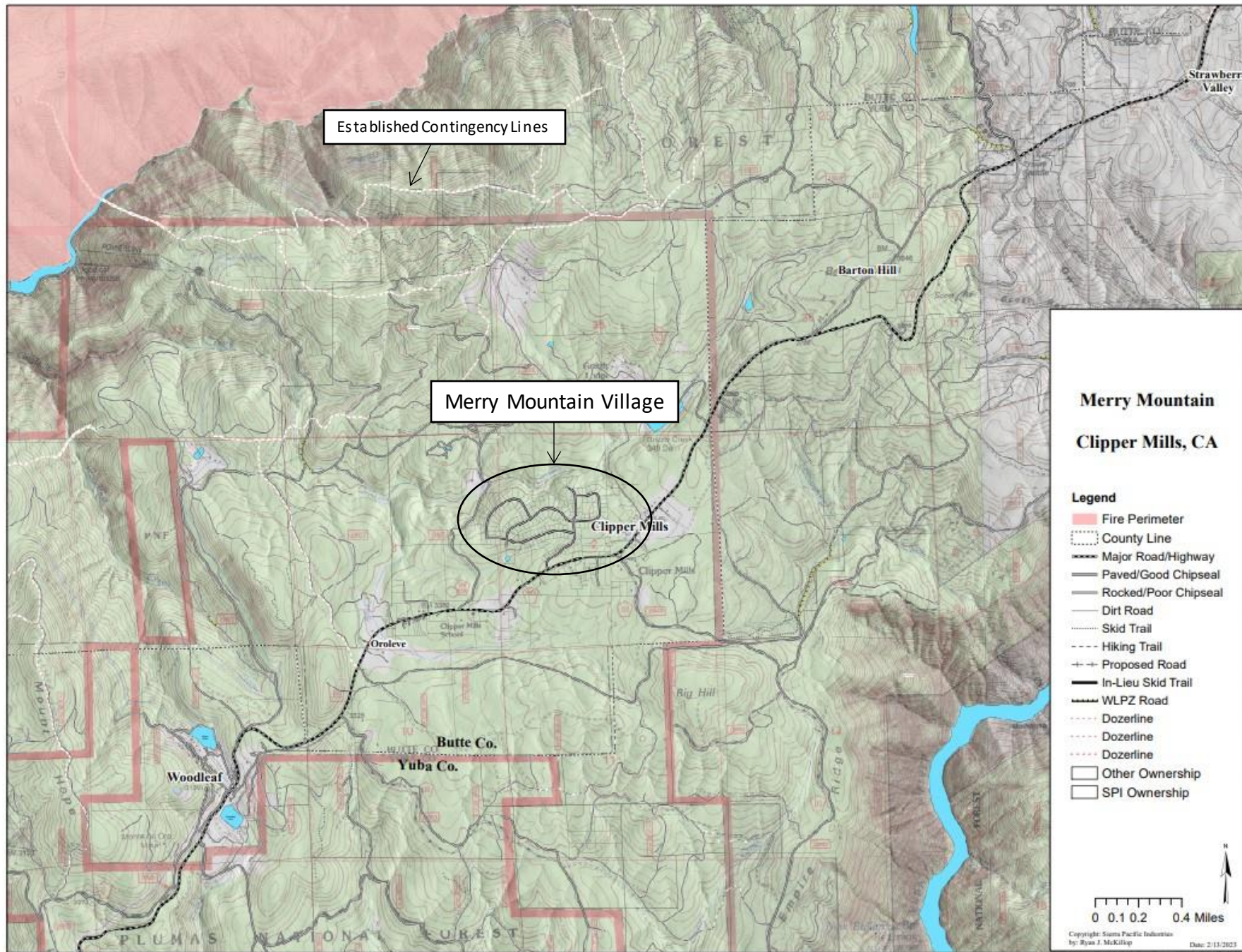
21-FH-BTU-035
Project Boundary



Site PLAN

Potential Project polygons: ① - contiguous private landowner fuels reduction ② - Binet Rd SFB ③ - Sawyer Masticate ④ - Marry SFB - 40 ac ⑤ - Woodleaf ⑥ - Sawyer Under Even / CEQA ⑦ - Labort Rd





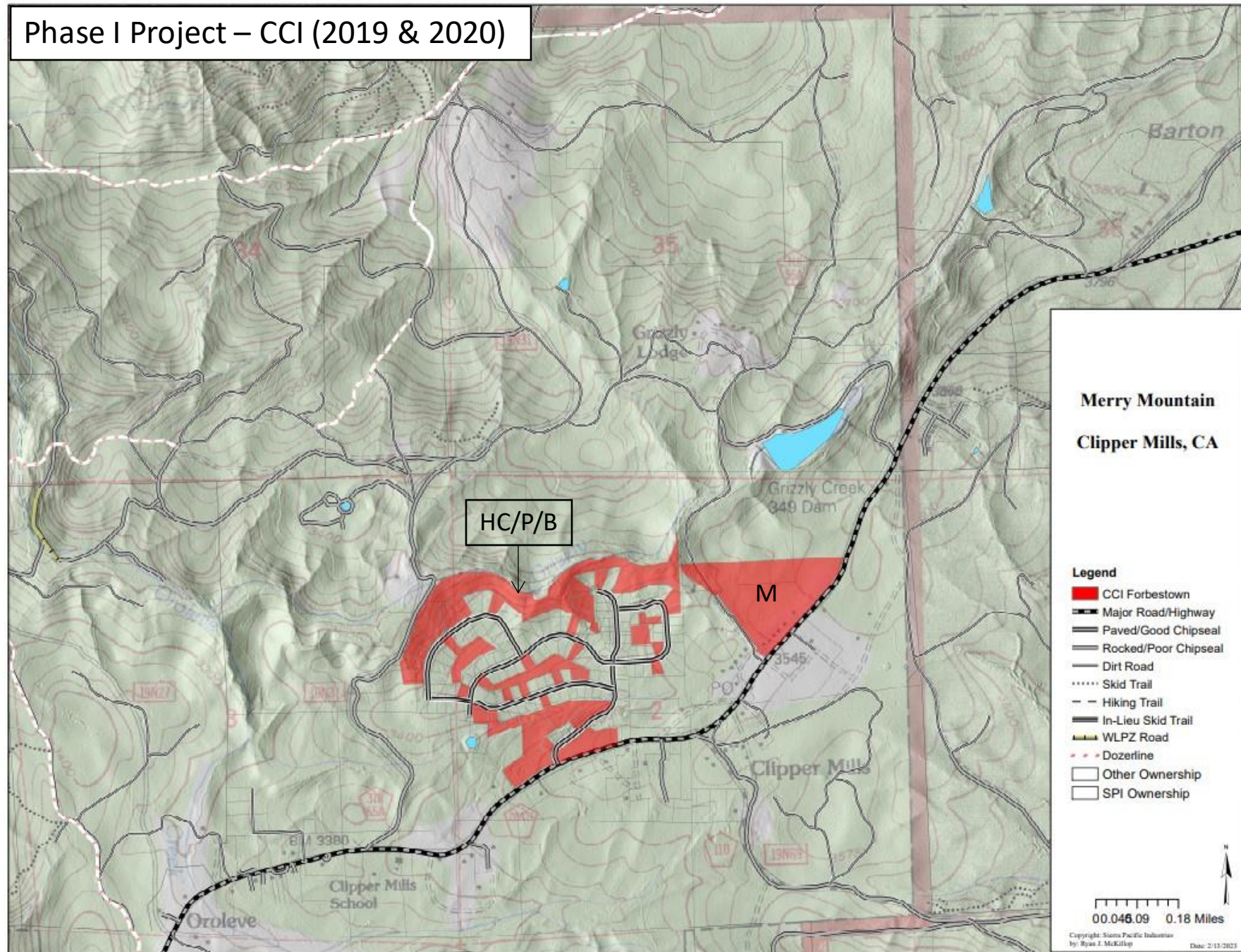
Established Contingency Lines

Merry Mountain Village

Clipper Mills

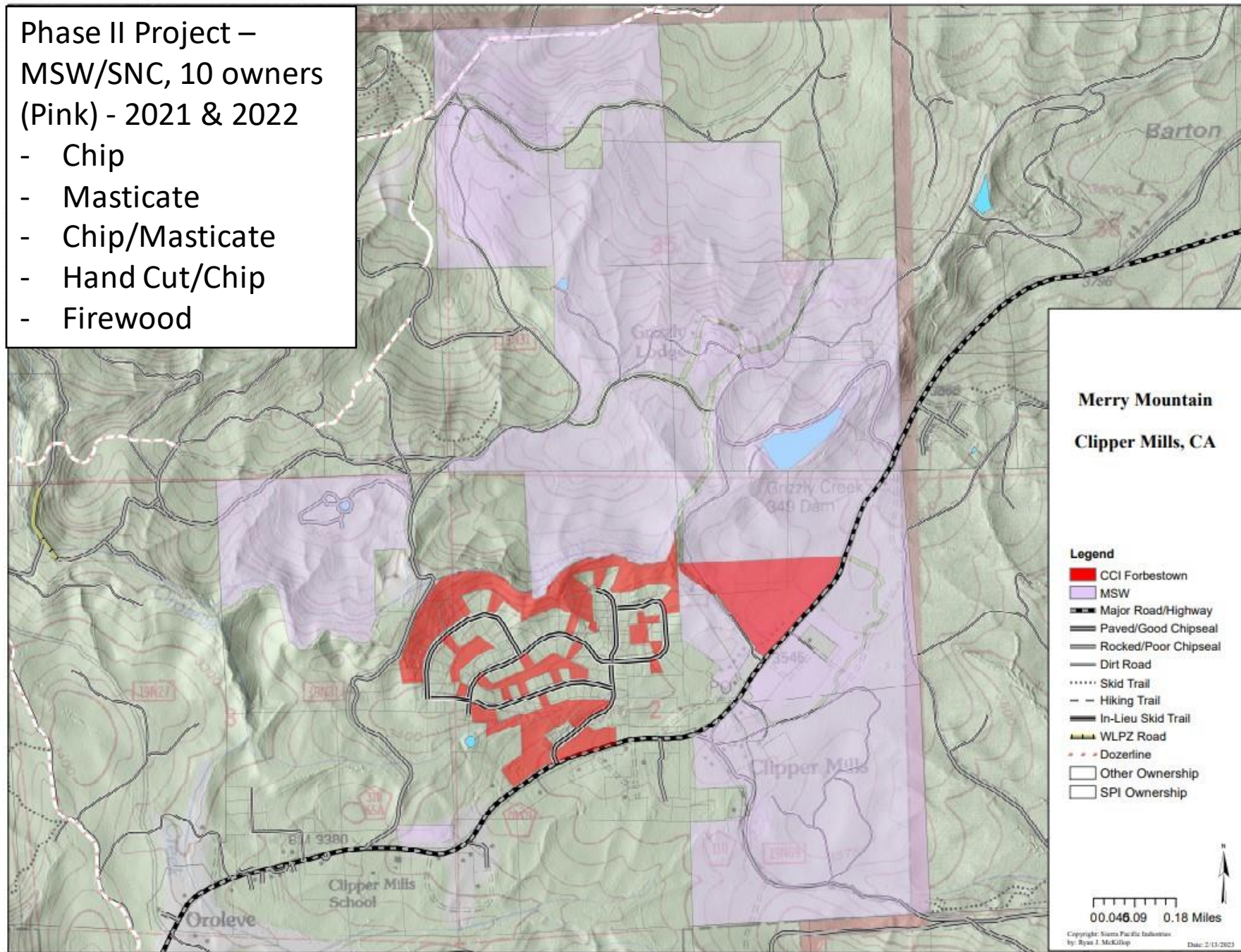
- HOA
- Firewise Community
- 159 Lots
- About 100 homes
- 33% Full Time Res.
- in SRA (FVFD Auto Aid 15-20 minutes)
- Closest Butte Engine is 30-40 minutes at best

Phase I Project – CCI (2019 & 2020)

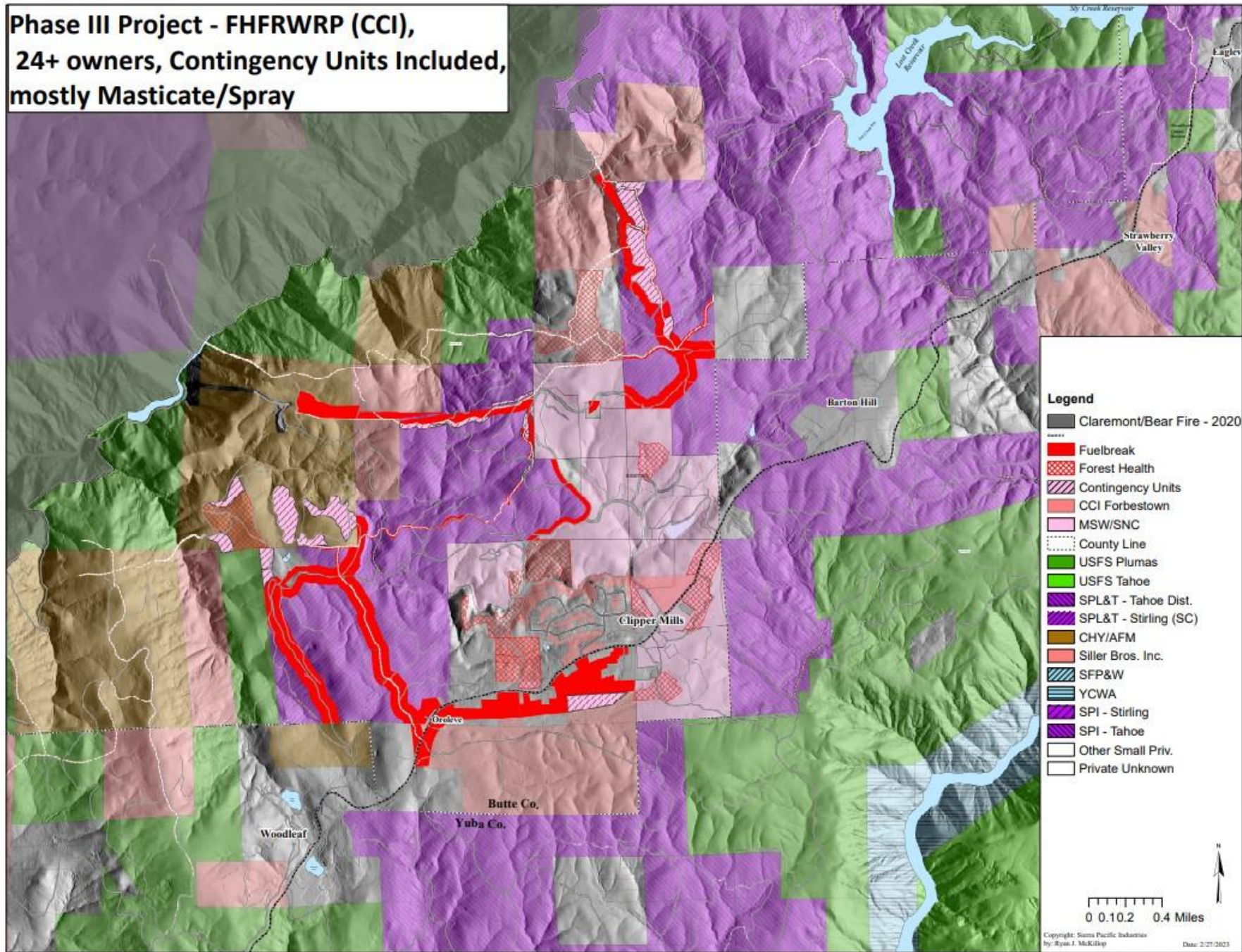


Phase II Project –
MSW/SNC, 10 owners
(Pink) - 2021 & 2022

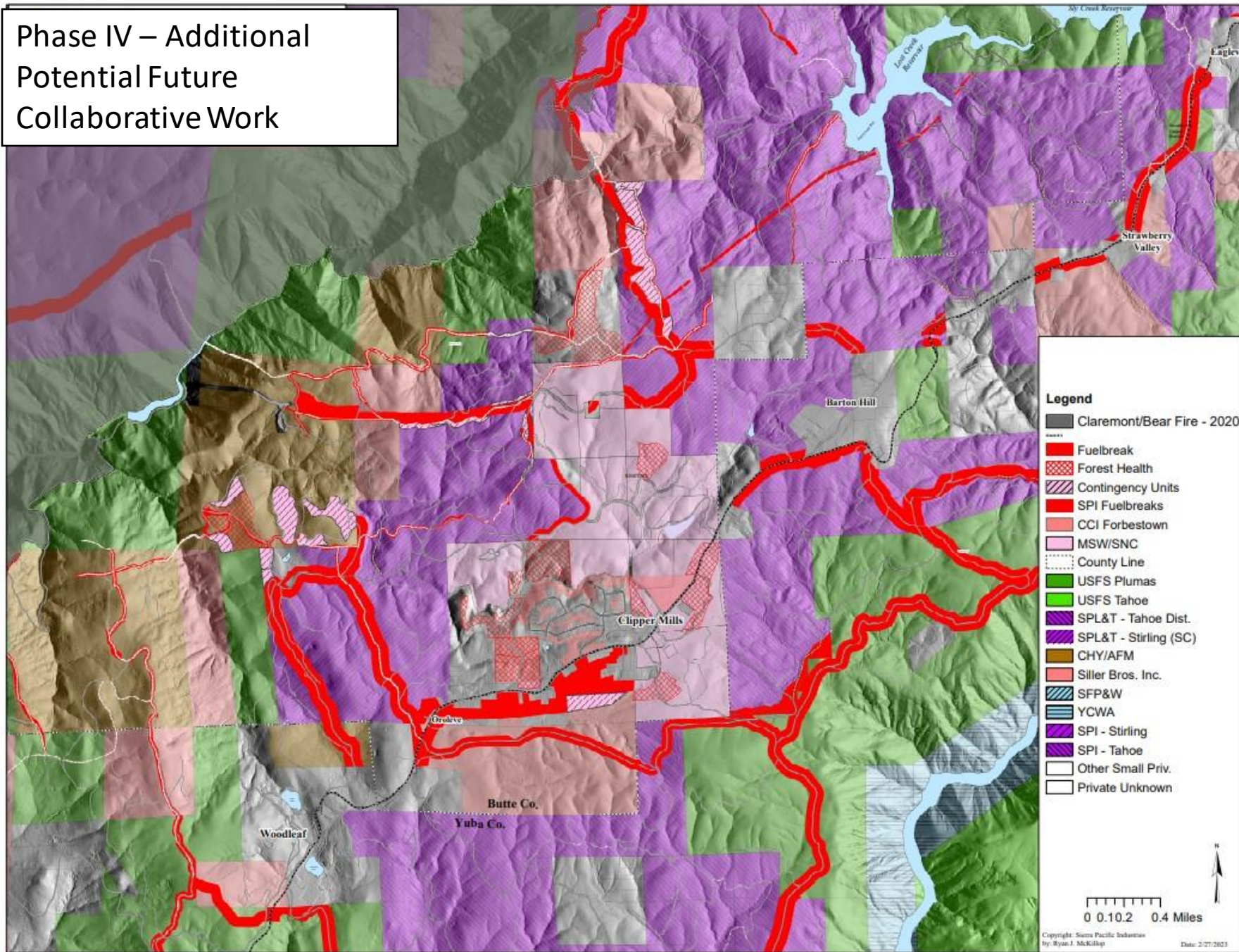
- Chip
- Masticate
- Chip/Masticate
- Hand Cut/Chip
- Firewood



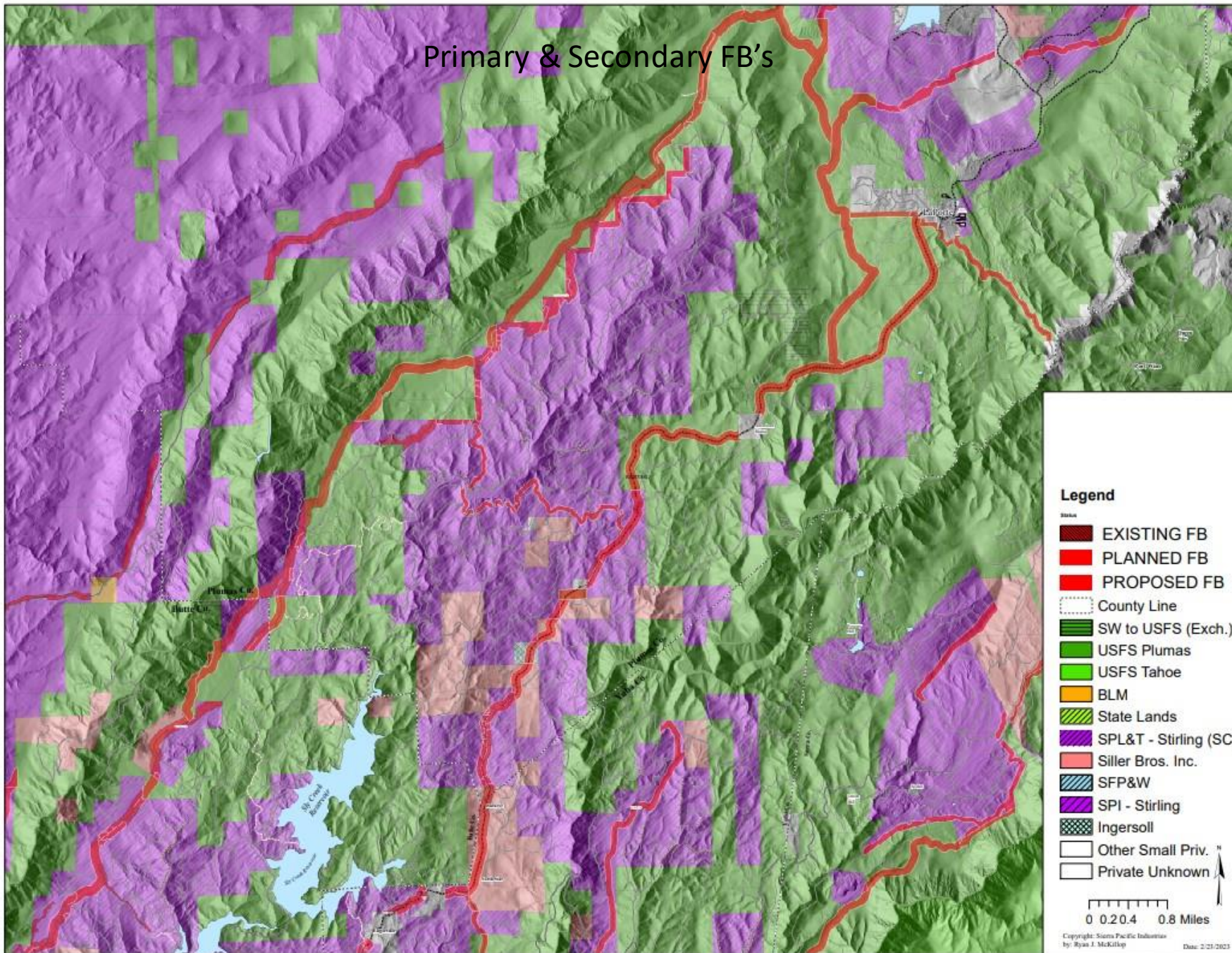
**Phase III Project - FHFRWRP (CCI),
24+ owners, Contingency Units Included,
mostly Masticate/Spray**



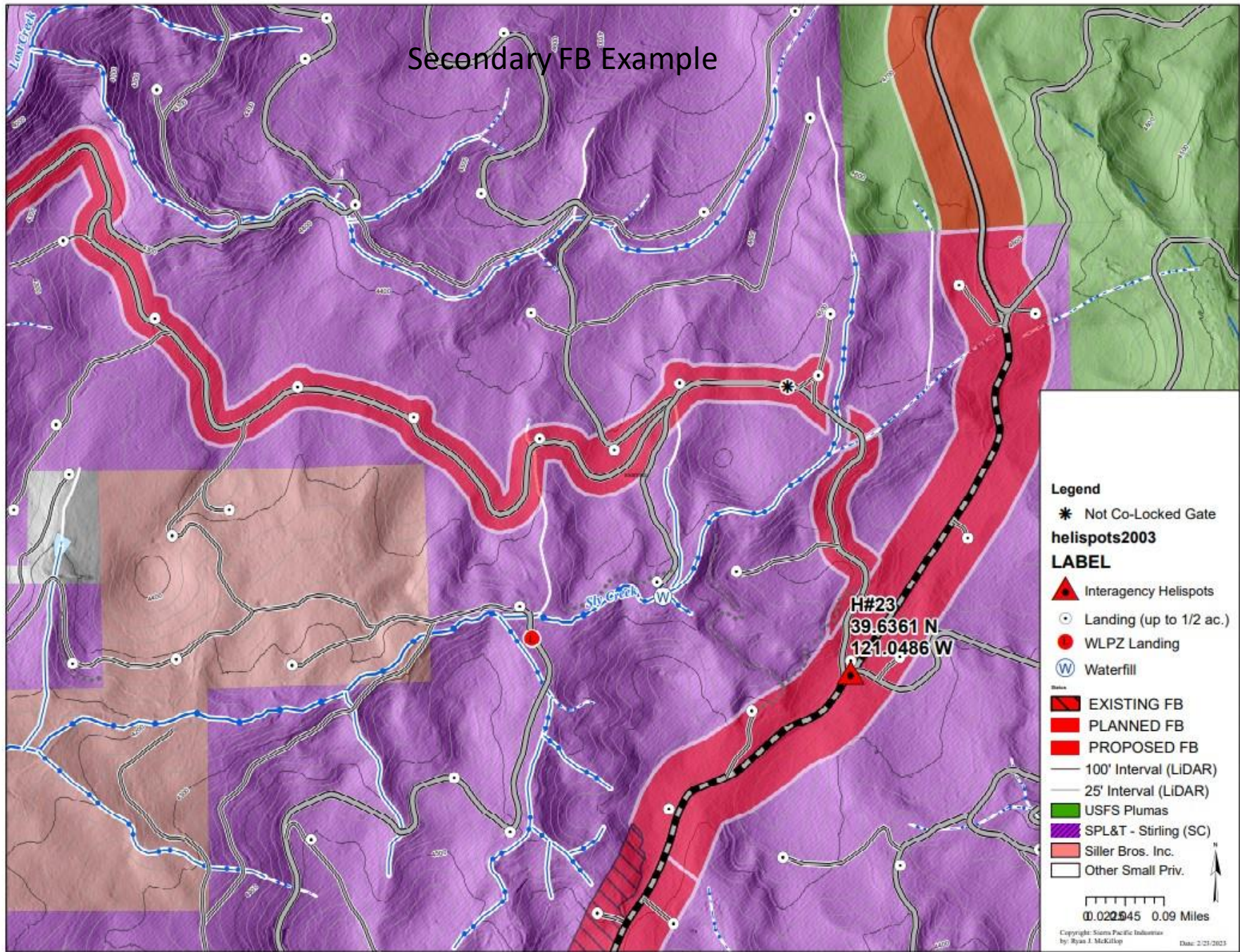
Phase IV – Additional
Potential Future
Collaborative Work

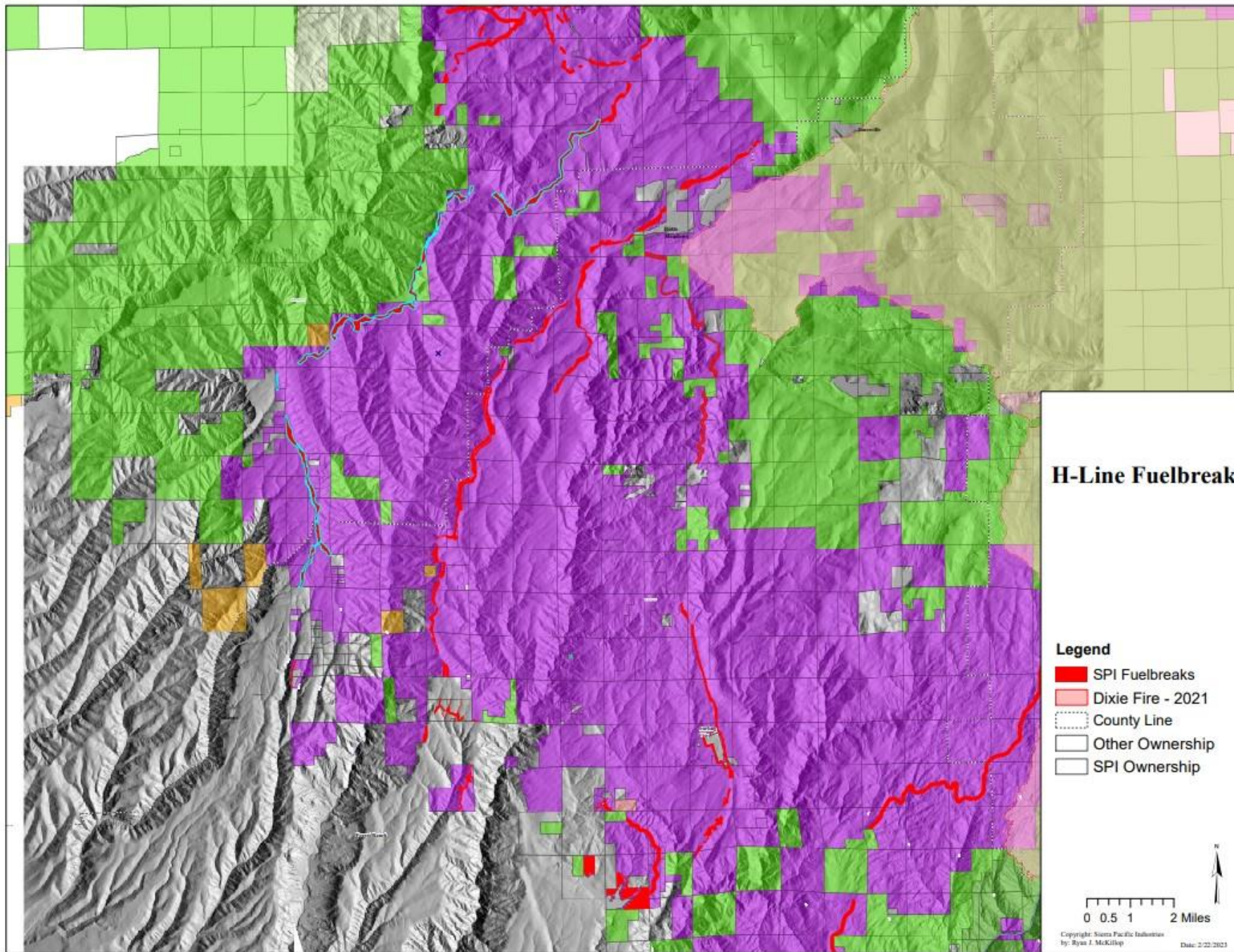


Primary & Secondary FB's

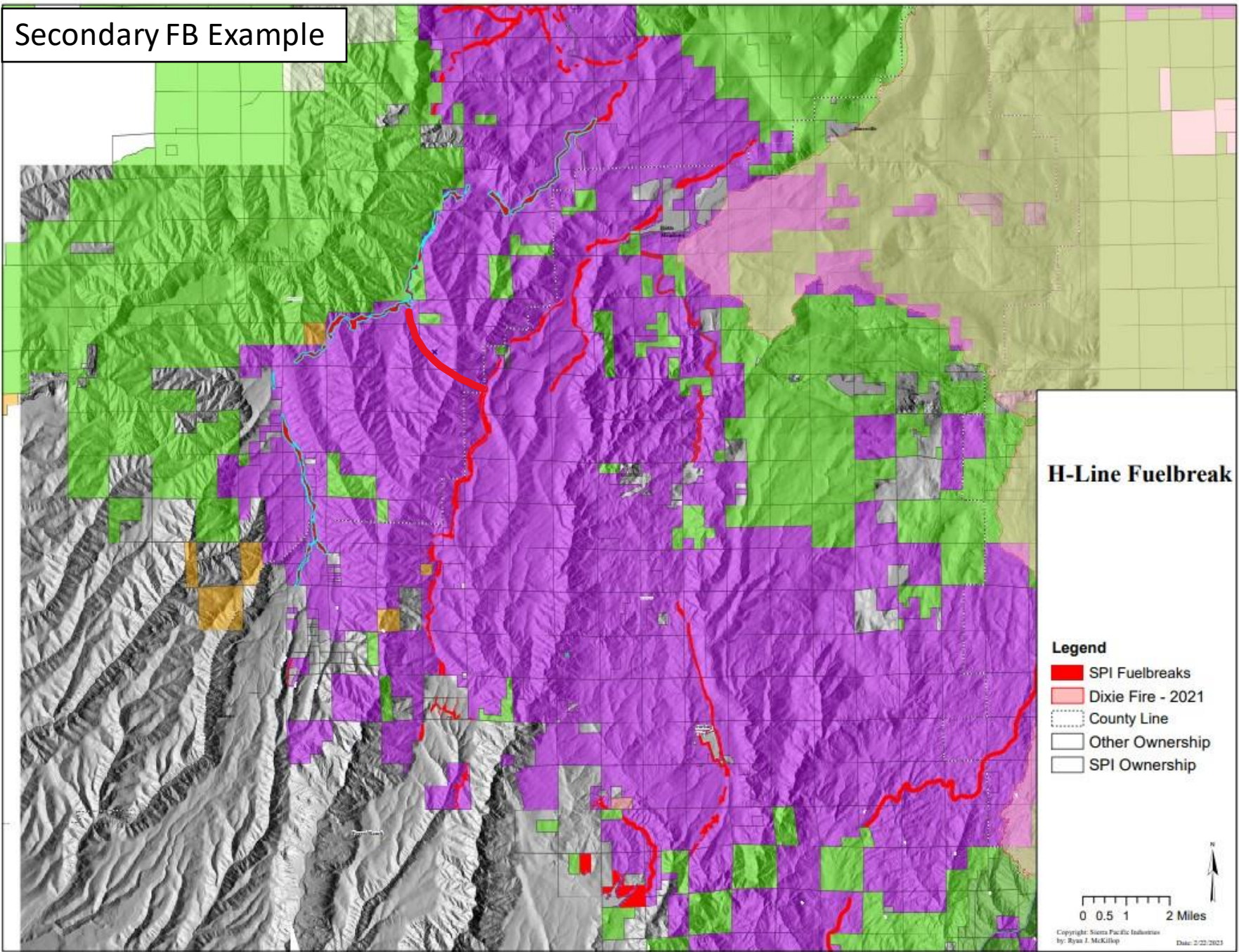


Secondary FB Example





Secondary FB Example



What is the recipe for successful achievement? To my mind there are just four essential ingredients: Choose a career you love. . . . Give it the best there is in you. . . . Seize your opportunities. . . . And be a member of the team. In no country but America, I believe, is it possible to fulfill all four of these requirements.

BENJAMIN F. FAIRLESS