



Walker Creek Watershed

Area	Hydrologic Units	Calwater Subbasins ---	(Planning Watersheds)
47,935 Acres	18050005	2201120101	Salmon Creek
19,399 Hectares	4th Field HUC	2201120102	Arroyo
75 Square Miles		2201120103	Upper Walker Creek
	2201	2201120104	Sausal
Location	4th Field Calwater	2201120201	Chileno Creek
Marin County		2201120202	Lower Walker Creek
		2201120203	Laguna Lake
		2201120303	Keys Creek

Species Potential	Miles of Streams with Species Present
Central California Coast Steelhead North Coastal Diversity Stratum - Potentially Independent Population	<u>Steelhead</u> 17 NOAA Fisheries, Critical Habitat Redesignation, 2005
Central California Coast Coho Coastal Diversity Stratum - Potentially Independent Population	<u>Coho</u> 16 CDFG, Coho Distribution, May 2007

Critical Habitat	
Central California Coast Steelhead	17 Miles of Stream
Central California Coast Coho	All accessible river reaches between Punta Gorda & San Lorenzo River including 2 San Francisco Bay streams: Arroyo Corte Madera del Presidio and Corte Madera Creek (64 FR 24049)

Miles of Waterway ^A	Miles	Number of Dams ^C
Naturally Occurring Waterways		3
Canal / Ditch		1 - Impassable
Intermittent Stream	92	2 - Unknown
Perennial Stream	29	
Artificial Path	8	

^CPassage Assessment Database, Pacific States Marine Fisheries Commission, 2005

^AUSGS National Hydrography Dataset, High Resolution, 2004. 1:24,000

USGS Gaging Stations ^B	Number of Barriers ^C
11460800 Walker Creek near Tomales	46
	3 Dams
	39 Water Rights Diversions (Unknown Passage Status)
	4 Road Crossings (1 Impassable)

^CPassage Assessment Database, Pacific States Marine Fisheries Commission, 2006

EPA Total Maximum Daily Load Classification (TMDL)^I
 Medium Priority - Mercury, Nutrients, Sediment (lower 16 miles)
 Sources: Surface Mining, Mine Tailings, Agriculture
^IState Water Resources Control Board, 2003

Appropriated Waterways^J
 Unmed Stream (SW 1/4, SW 1/4, Sec 32, T5N, R9W) from confluence of Walker Creek and Keyes Creek upstream is Fully Appropriated
^JCalifornia State Water Resources Control Board, 1998.



Average Annual Precipitation^E	Average Annual Precipitation Range^E
34"	27.5-35"

^ECalifornia Mean Annual Precipitation Zones, 1900-1960, CA Department of Forestry, 1990

Roads^A	Miles
Roads in Watershed	
Secondary and connecting road, state highways	3
Local, neighborhood, and rural road, city street, unseparated	97
Vehicular trail, 4WD	3
Driveway or service road	13
Total Miles	

Road Density	
Miles of Roads per SqMi of Watershed	1.5
Miles of Roads per SqMi of 100m Riparian Buffer*	3.6

*Buffer is 100 meters on either side of the stream centerline

^AU.S. Census Bureau - Tiger 2000, 2002. 1:24,000

Slope^D	Acres	Percent of watershed
Lands of 0-2 percent slope	1,848	4%
Lands of 2-4 percent slope	1,591	3%
Lands of 4-10 percent slope	5,697	12%
Lands of 10-15 percent slope	4,838	10%
Lands of 15-30 percent slope	13,791	29%
Lands of 30-60 percent slope	17,219	36%
Lands of 60-100 percent slope	2,945	6%
Lands of > 100 percent slope	7	0%

Elevation Range	3-1522 ft.	1-464 m
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^DSlope derived from USGS 10 meter Digital Elevation Models (DEM's)

Vegetation^G	Acres	Percent of watershed
Agriculture	1,893	4%
Annual grassland	29,129	61%
Barren / Other	37	0%
Conifer Forest		
Closed-Cone Pine- Cypress	86	0%
Douglas Fir	74	0%
Montane Hardwood-Conifer	2	0%
Hardwood Forest		
Montane Hardwood	8,271	17%
Montane Riparian	22	0%
Hardwood Woodland		
Coastal Oak Woodland	2,718	6%
Eucalytus	166	0%
Valley Foothill Riparian	507	1%
Shrub	4,028	8%
Urban	316	1%
Water	665	1%
Wetland	40	0%

^GMulti-source Land Cover Data (2002 v2), CA Department of Forestry, 2002. 100 meter Grid



Erodability of Watershed^F	Acres	Percent of watershed
Ranking = 3	4,266	9%
Ranking = 4	19,342	40%
Ranking = 5	24,179	50%
Unranked	149	0%

^FDepartment of Conservation, Division of Mines and Geology; minimum mapping unit: approx. 8000 acres
Watersheds were rated based on slope, precipitation, and lithologic susceptibility to failure. Total erosion potential is based on a combination of the landslide potential, debris slide potential, and the surface erosion potential. Rating 0-10 [0 = Low slide potential, 10 = High slide potential]

Land Ownership^H	Acres	Percent of watershed
Private	46,242	96%
Local (Water District)	1,108	2%
State	580	1%

^HManagement Landscape, CA Department of Forestry, 2002

Population^I	Housing^I
Total Population within the watershed -- 752 People	Total Housing Units within the watershed -- 307 Houses
	Housing Density
	0 to Less than 1 Housing Unit / 160 Acres 79%
	1 Unit / 160 Acres to 1 Unit / 20 Acres 20%
	1 Unit / 20 Acres to 1 Unit / 5 Acres 1%
	1 Unit / 5 Acres to 2 Units / Acre 0%
	2 Units / Acres to Greater than or Equal to 5 Units / Acre 0%

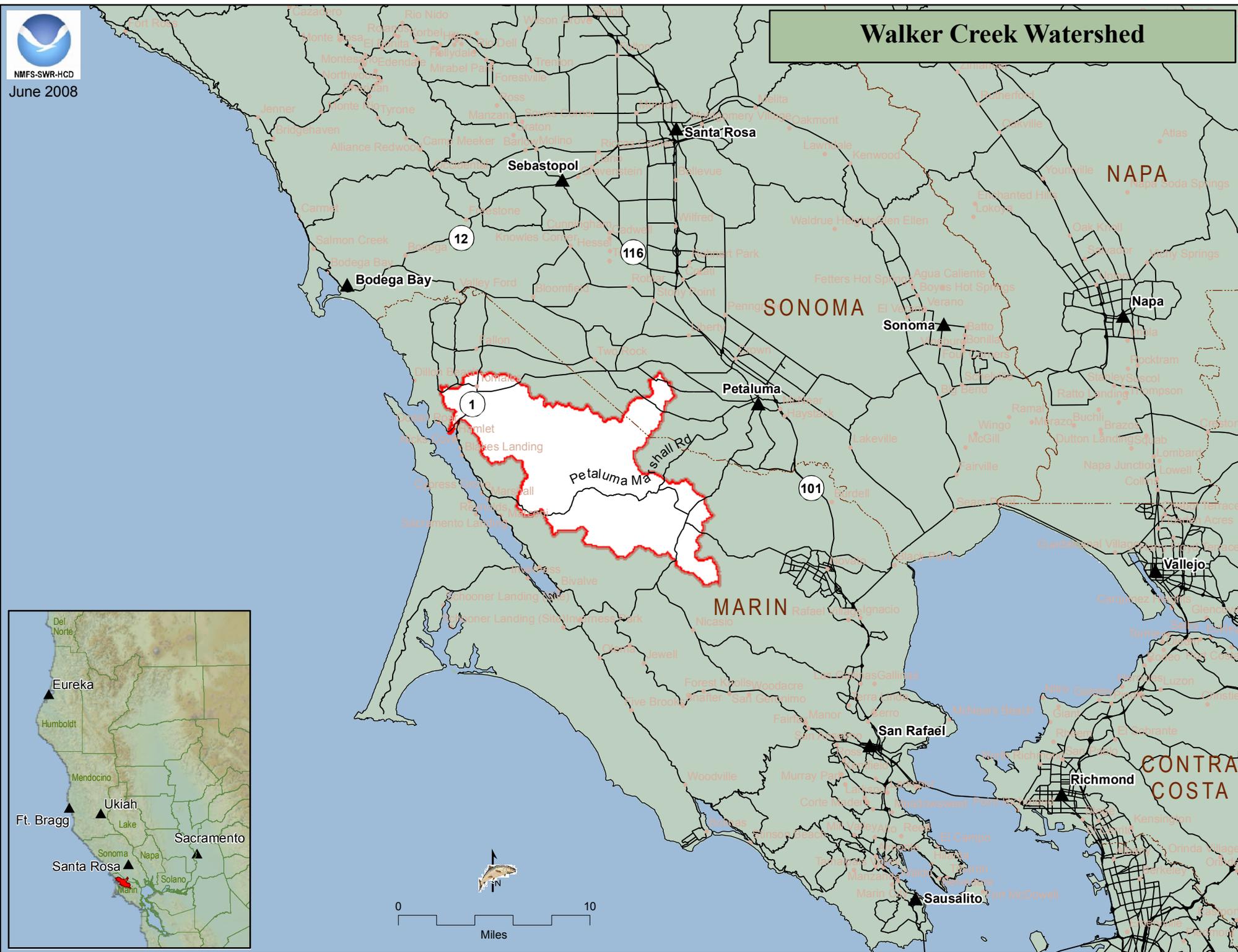
^ICensus 2000 Block Data (Migrated), CA Department of Forestry, 2003





NMFS-SWR-HCD
June 2008

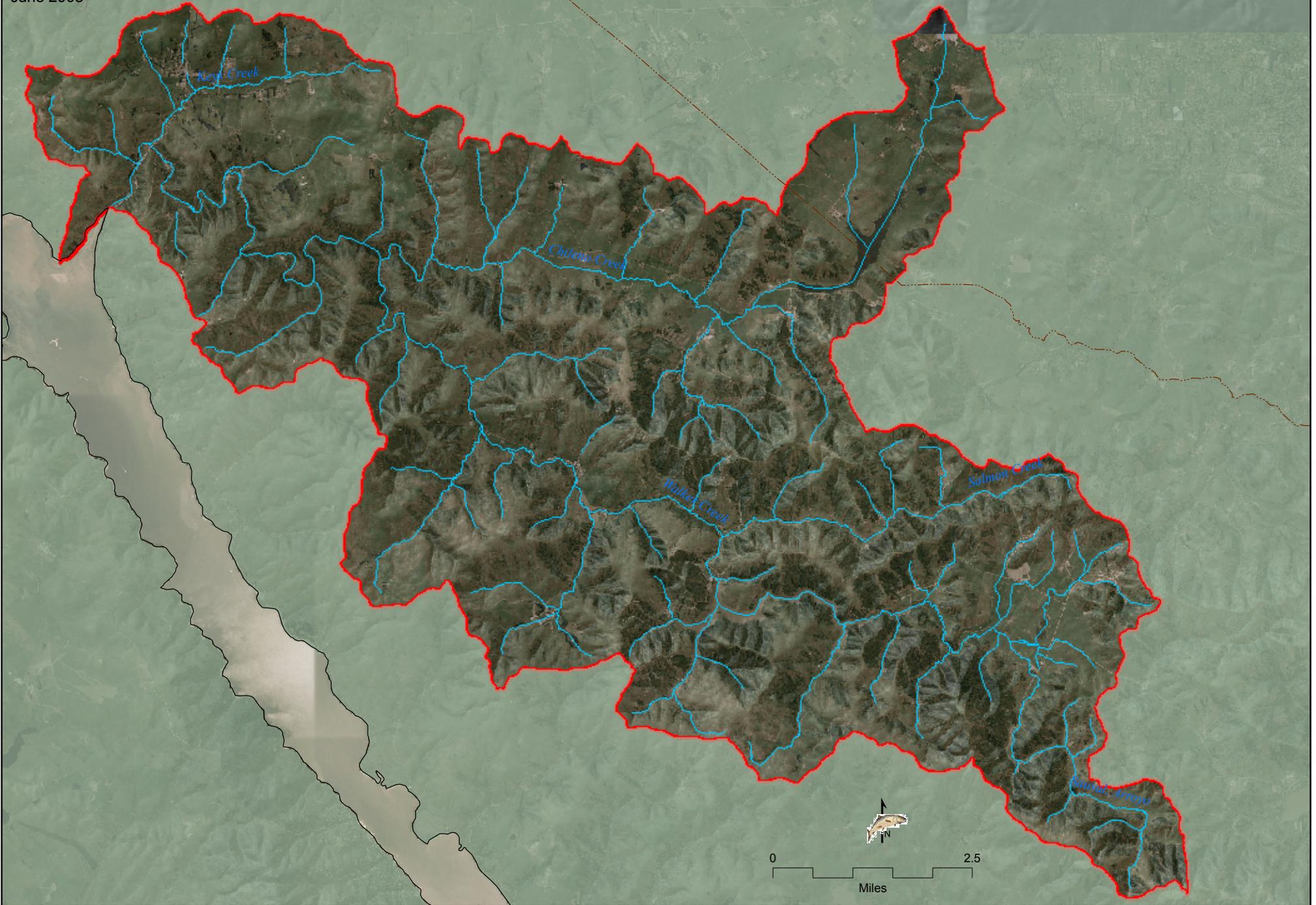
Walker Creek Watershed





NMFS-SWR-HCD
June 2008

Walker Creek Watershed





NMFS-SWR-HCD
June 2008

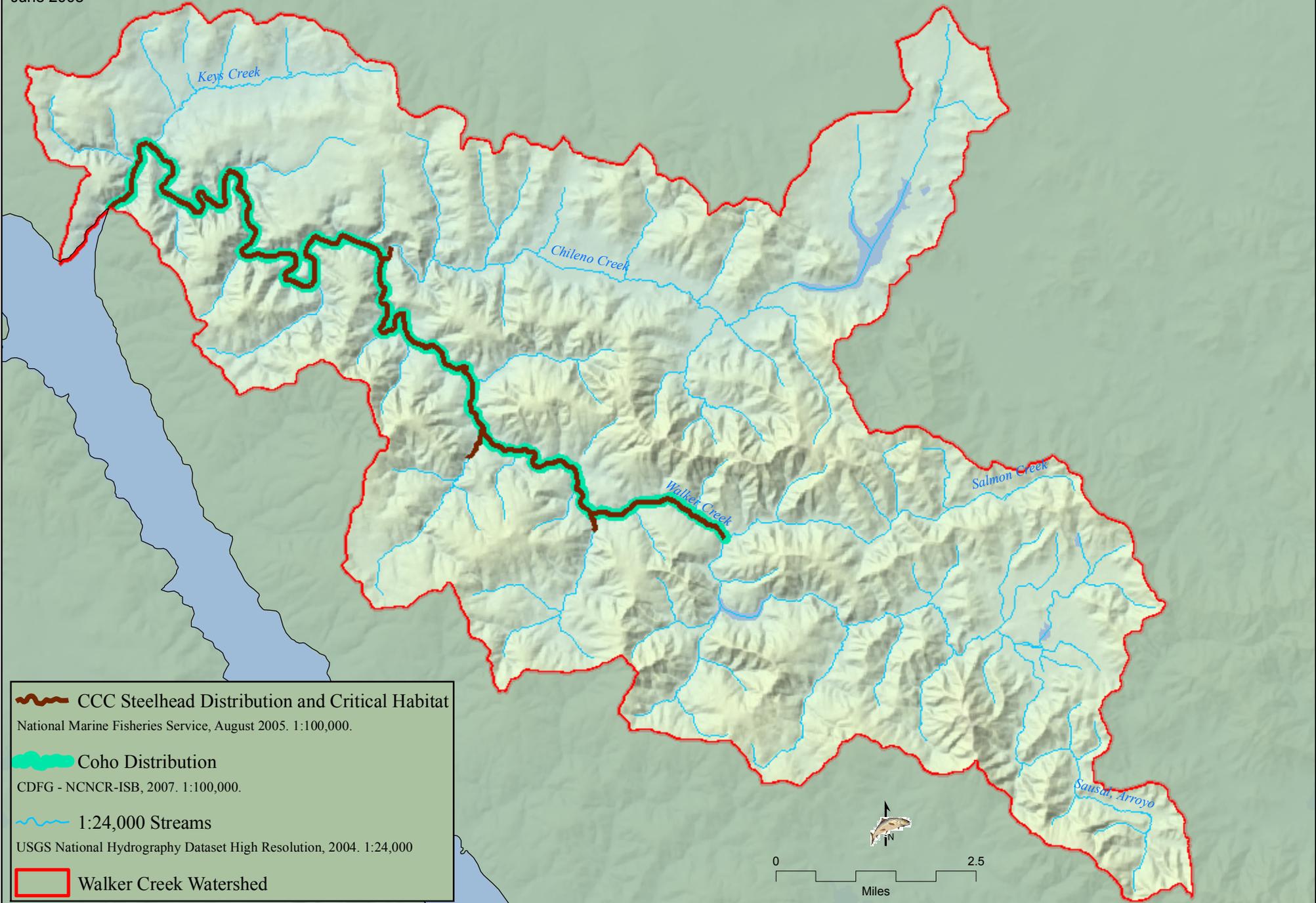
Walker Creek Watershed CalWater Planning Watersheds





NMFS-SWR-HCD
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Walker Creek Watershed Fish Distribution and Critical Habitat



 CCC Steelhead Distribution and Critical Habitat

National Marine Fisheries Service, August 2005. 1:100,000.

 Coho Distribution

CDFG - NCNCR-ISB, 2007. 1:100,000.

 1:24,000 Streams

USGS National Hydrography Dataset High Resolution, 2004. 1:24,000

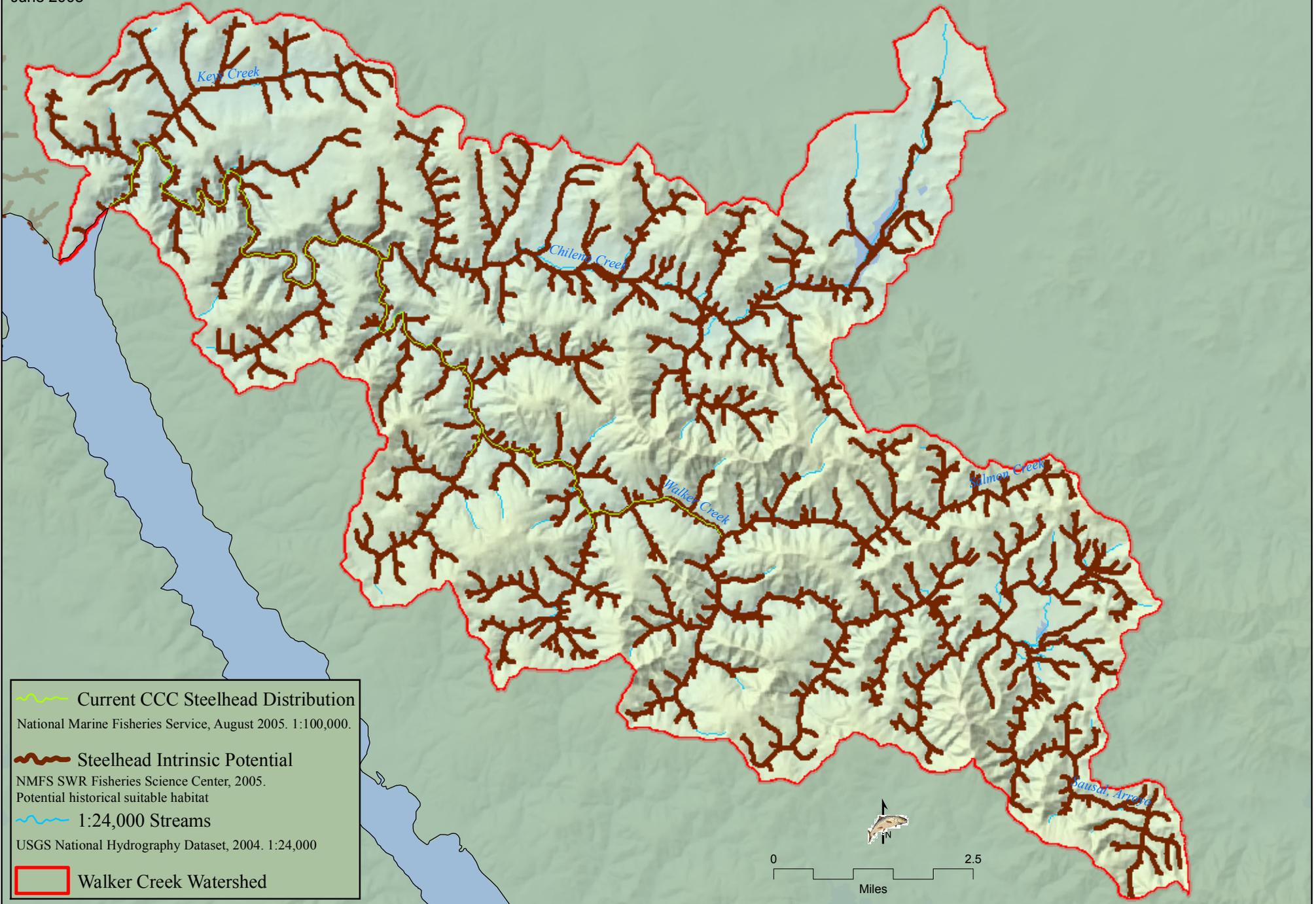
 Walker Creek Watershed





NMFS-SWR-HCD
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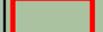
Walker Creek Watershed Steelhead Current vs. Historical



 Current CCC Steelhead Distribution
National Marine Fisheries Service, August 2005. 1:100,000.

 Steelhead Intrinsic Potential
NMFS SWR Fisheries Science Center, 2005.
Potential historical suitable habitat

 1:24,000 Streams
USGS National Hydrography Dataset, 2004. 1:24,000

 Walker Creek Watershed



NMFS-SWR-HCD

June 2008

Walker Creek Watershed Coho Current vs. Historical



 Current Coho Distribution

CDFG - NCNCR-ISB, 2007. 1:100,000.

 Coho Intrinsic Potential

NMFS SWR Fisheries Science Center, 2005.
Potential historical suitable habitat

 1:24,000 Streams

USGS National Hydrography Dataset, 2004. 1:24,000

 Walker Creek Watershed





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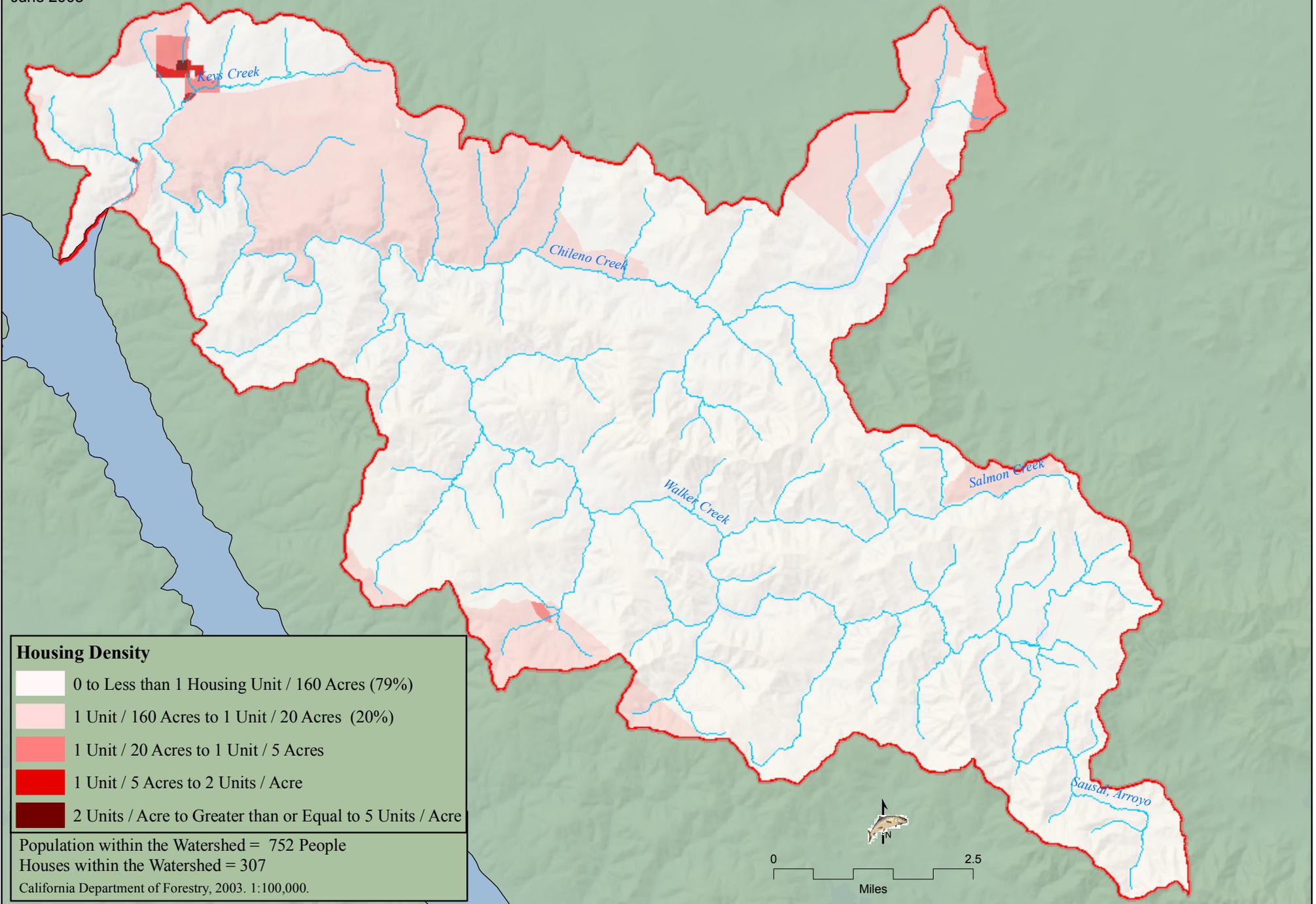
Walker Creek Watershed Elevation





NMFS-SWR-HCD
June 2008

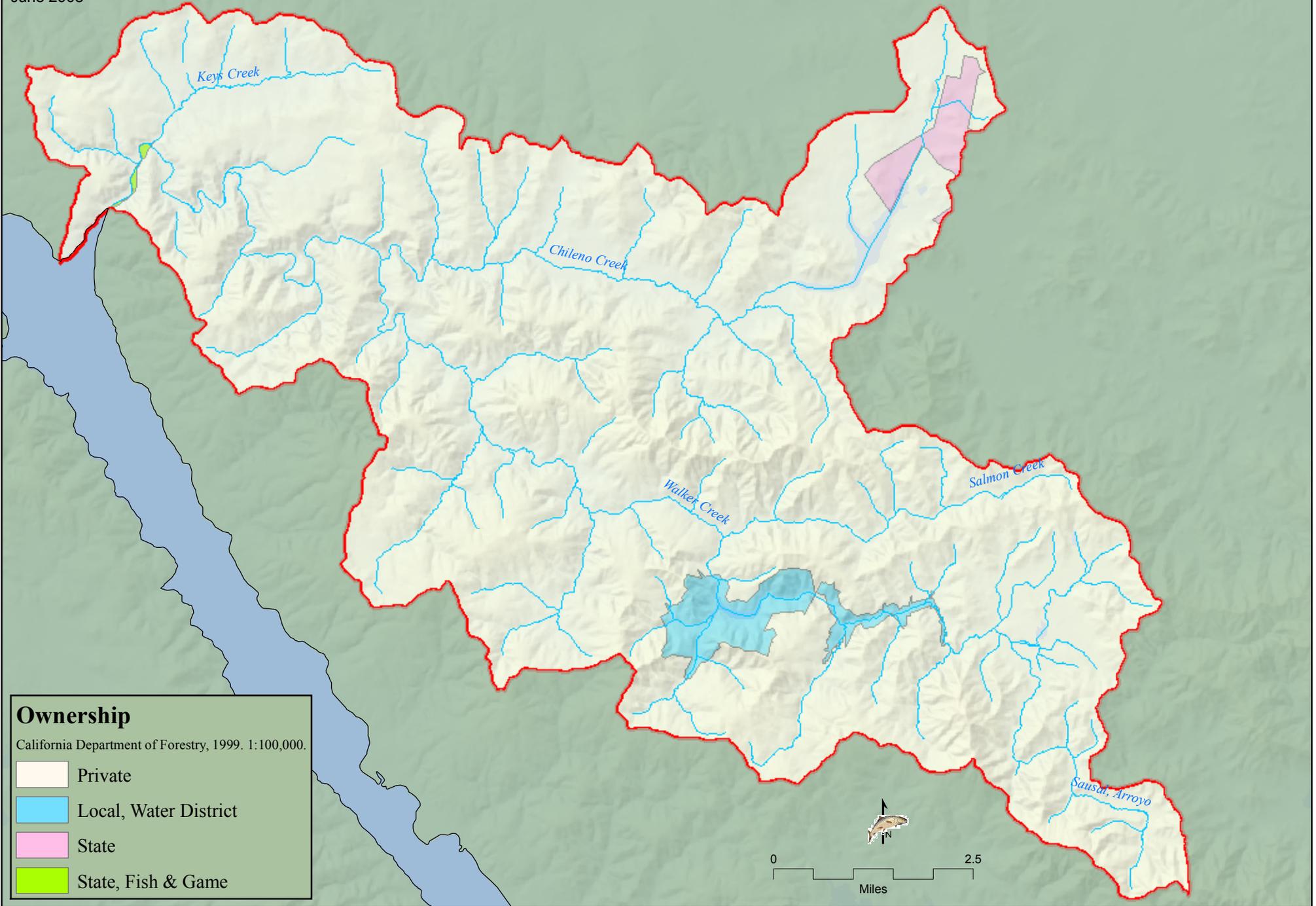
Walker Creek Watershed Development





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Walker Creek Watershed Ownership



Ownership

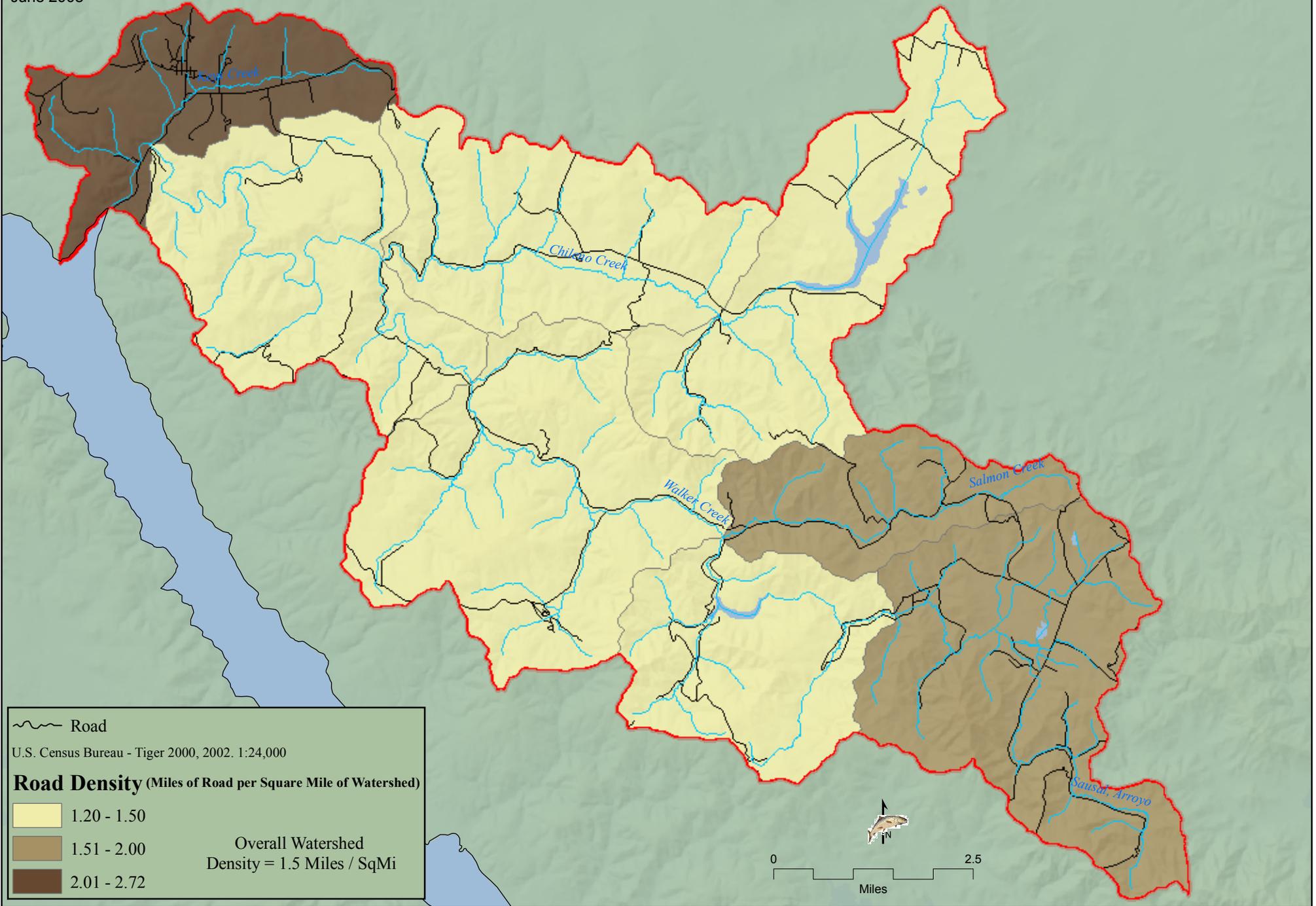
California Department of Forestry, 1999. 1:100,000.

- Private
- Local, Water District
- State
- State, Fish & Game



NMFS-SWR-HCD
June 2008

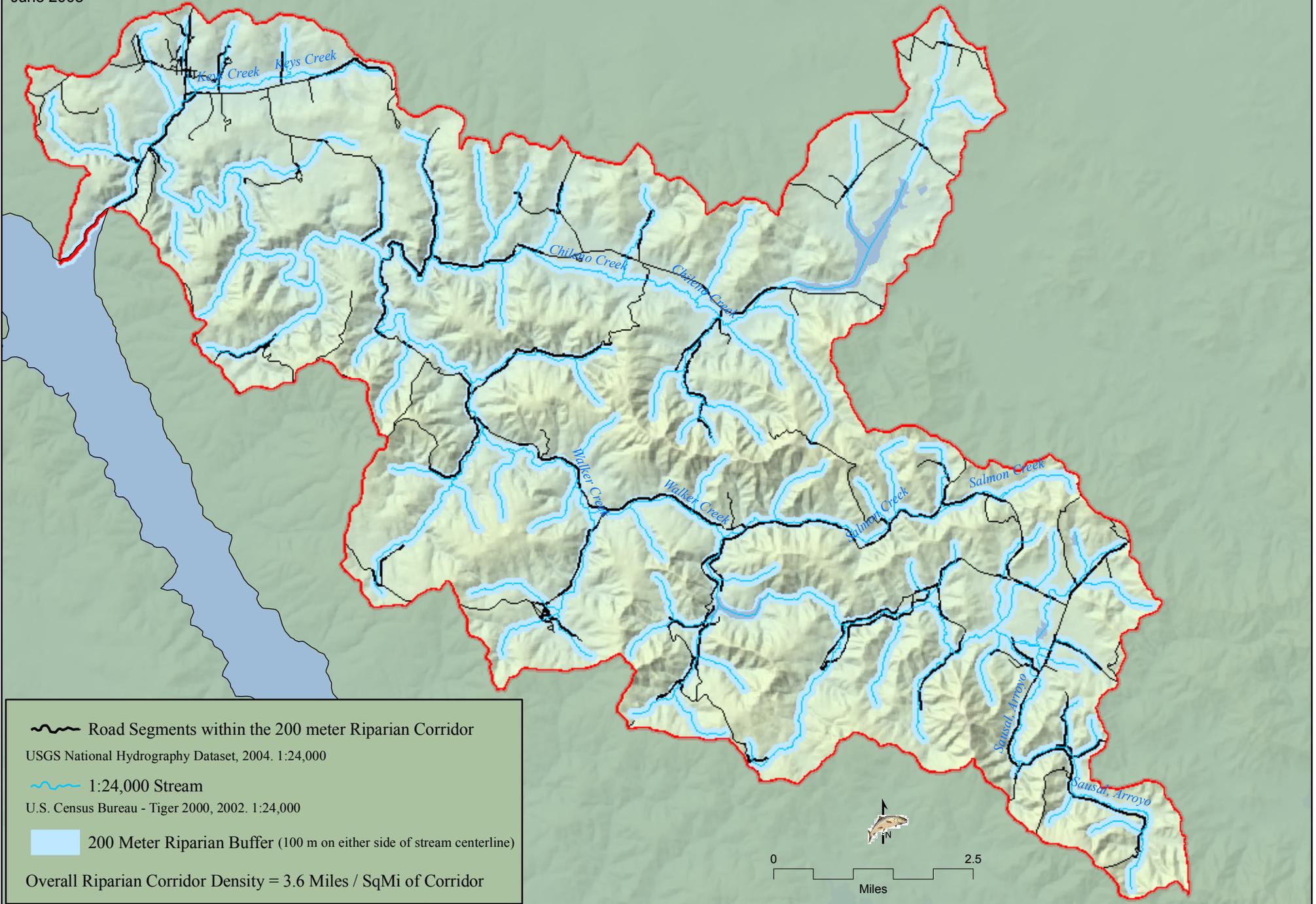
Walker Creek Watershed Road Density





NMFS-SWR-HCD
June 2008

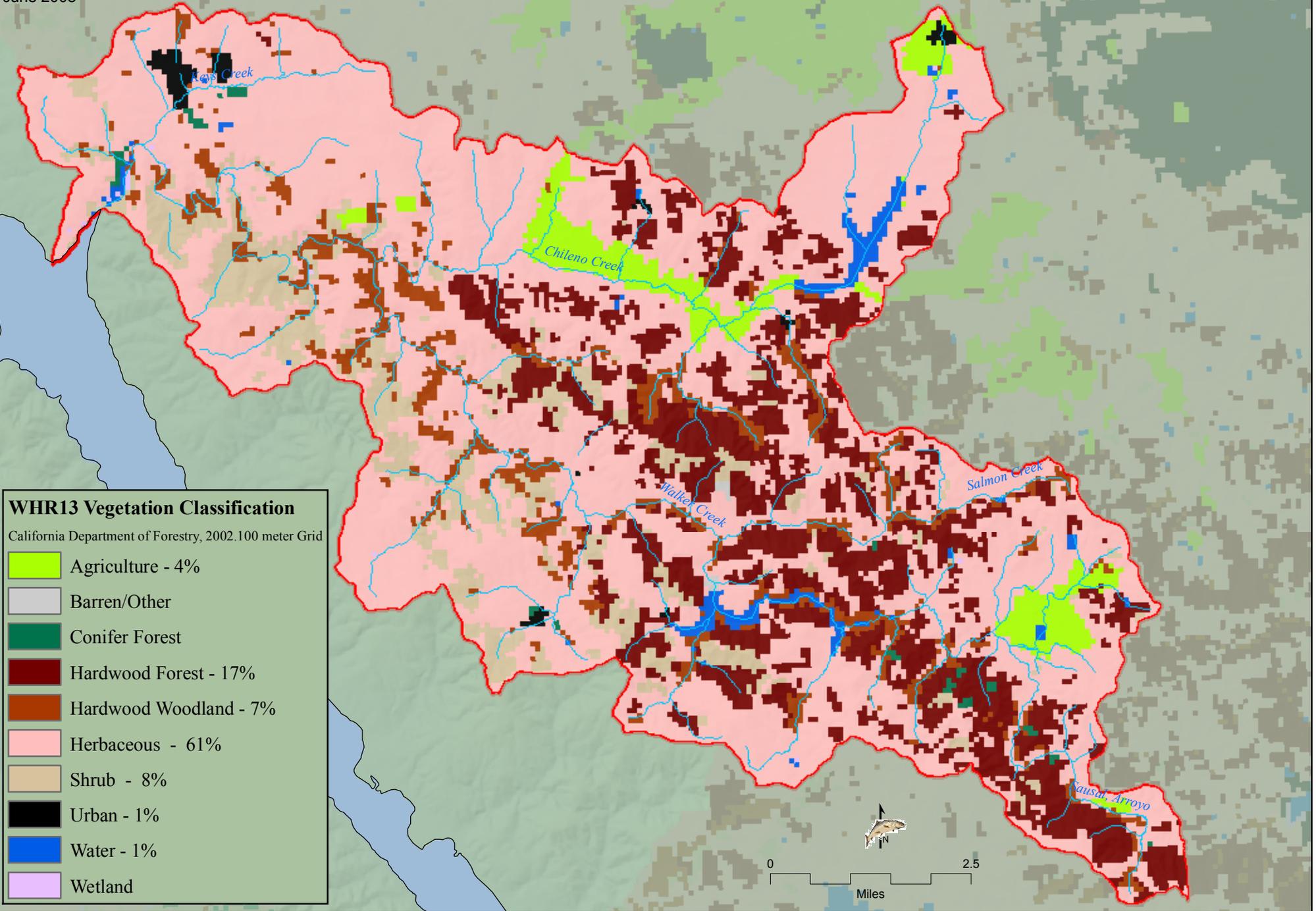
Walker Creek Watershed Road Density in the Riparian Corridor





NMFS-SWR-HCD
June 2008

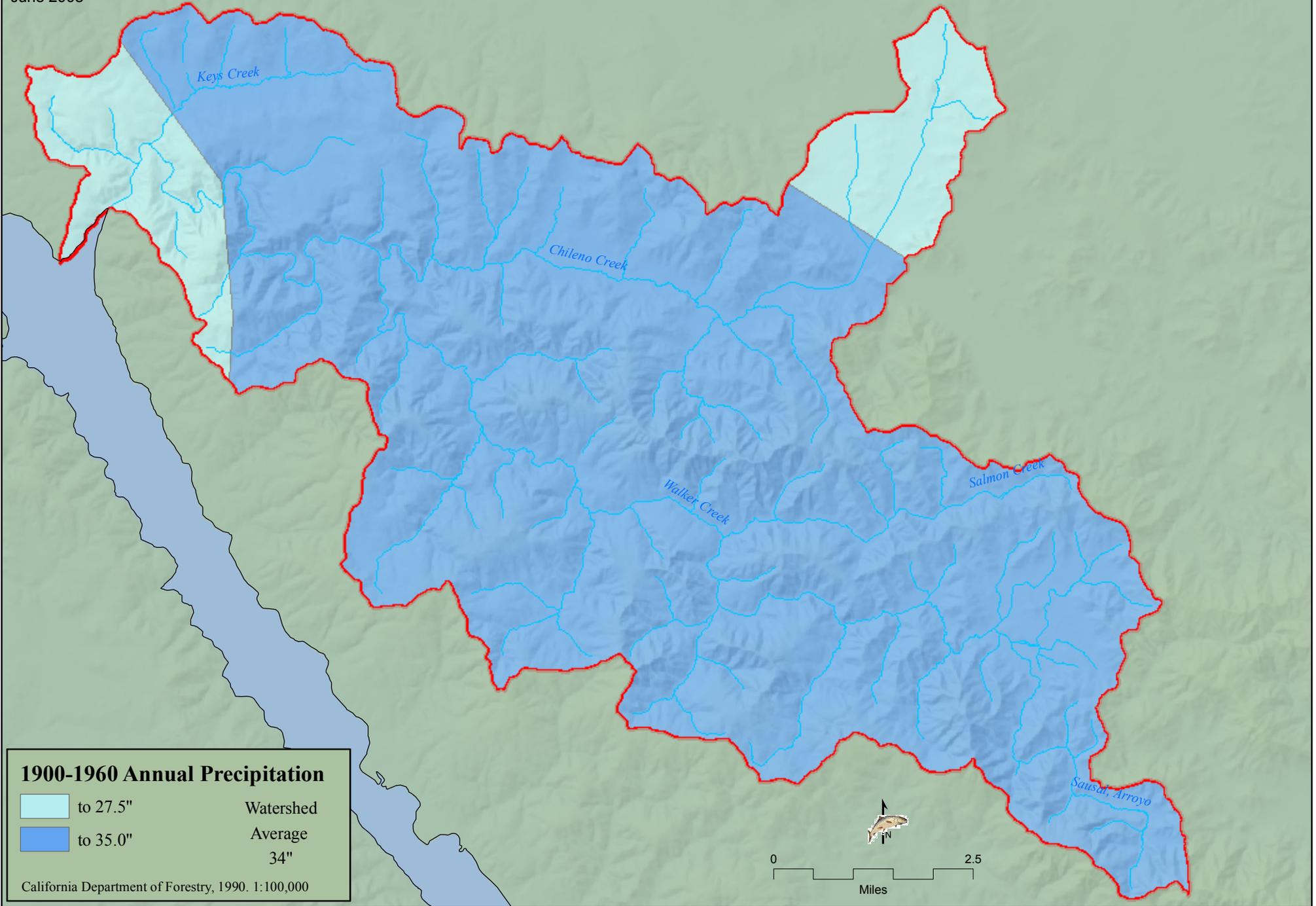
Walker Creek Watershed Vegetation





NMFS-SWR-HCD
June 2008

Walker Creek Watershed Precipitation





NMFS-SWR-HCD
June 2008

Walker Creek Watershed Flood Zone



FEMA Flood Zones

FEMA, 1996. 1:24,000

 100 Year Flood Zone



NMFS-SWR-HCD
June 2008

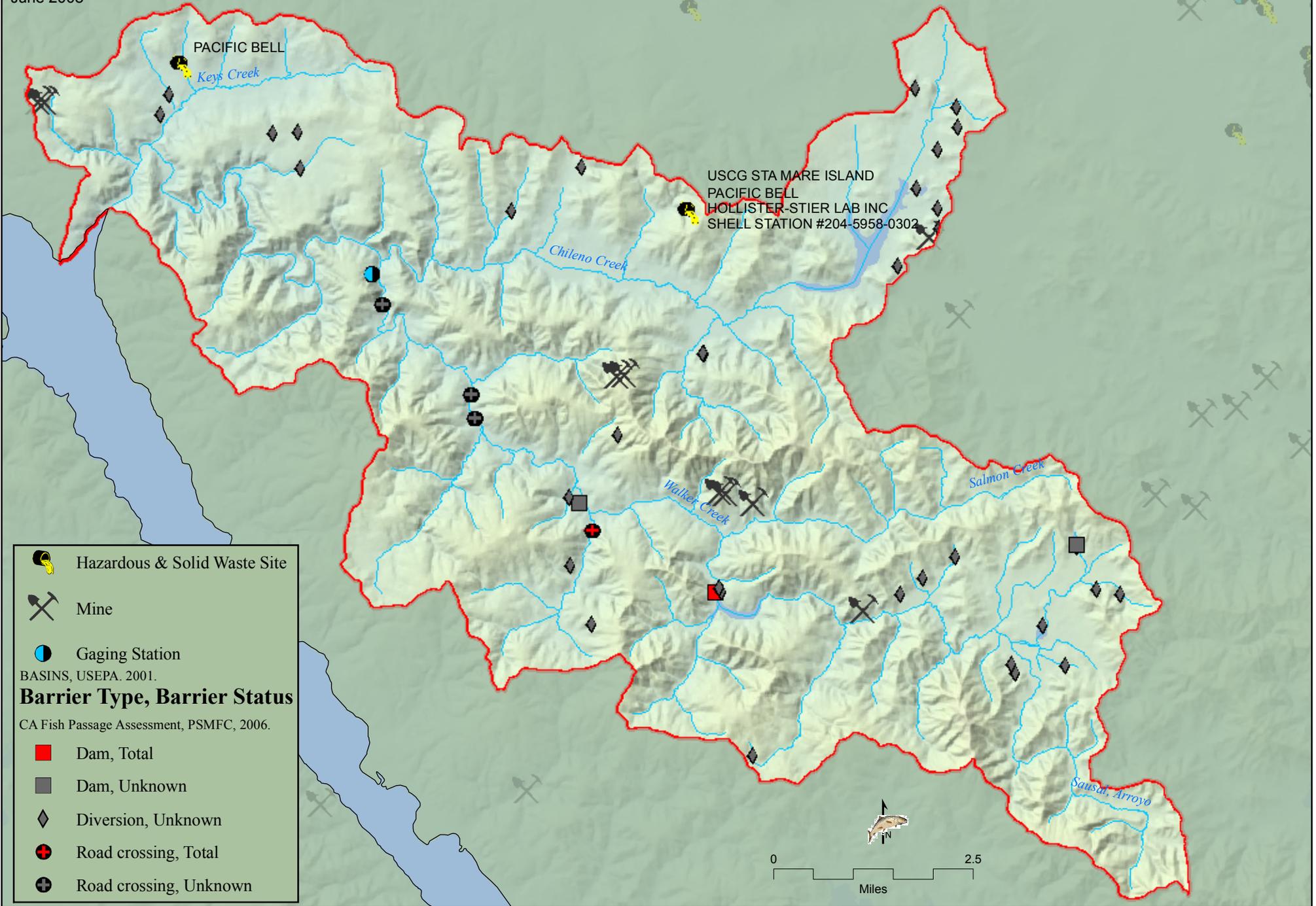
Walker Creek Watershed Erosion Potential





NMFS-SWR-HCD
June 2008

Walker Creek Watershed Barriers and Industrial Discharge





NMFS-SWR-HCD
June 2008

Walker Creek Watershed Public Consultation Tracking System



● RMS / PCTS Record

Current as of May 9, 2008 (PCTS)
and Jan. 25, 2008 (RMS).
Only those records with a
Latitude and Longitude
entered appear here

0 2.5
Miles

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Minimum Mapping Unit: Approximately 8000
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