



Noyo River Watershed

Area	Hydrologic Units	Calwater Subbasins ---	(Planning Watersheds)
72,271 Acres	18010108	1113200101	Redwood Creek (3361 Acres)
29,247 Hectares	4th Field HUC	1113200102	Olds Creek (6964 Acres)
113 Square Miles		1113200103	Hayworth Creek (7106 Acres)
	1113	1113200104	Middle Fork N. Fork Noyo River (4566 Acres)
Location	4th Field Calwater	1113200105	North Fork Noyo River (6516 Acres)
Mendocino County		1113200106	McMullen Creek (7065 Acres)
		1113200201	Little N. Fork (8431 Acres)
		1113200202	Duffy Gulch (5733 Acres)
		1113200301	Brandon Gulch (6445 Acres)
		1113200302	Parlin Creek (7572 Acres)
		1113200303	Kass Creek (3530 Acres)
		1113200403	Mouth of Noyo River (4982 Acres)

Species Potential	Miles of Streams with Species Present
Northern California Steelhead North-Central Coastal Diversity Stratum - Independent Population	<u>Steelhead</u> 91 NOAA Fisheries, Critical Habitat Redesignation, 2005
Central California Coast Coho Lost Coast-Navarro Point Diversity Stratum - Independent Population	<u>Coho</u> 79 CDFG, Coho Distribution, May 2007
California Coastal Chinook North-Central Coastal Diversity Stratum - Independent Population	<u>Chinook</u> 41 NOAA Fisheries, Critical Habitat Redesignation, 2005

Critical Habitat	
Northern California Steelhead	91 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)
California Coastal Chinook	41 Miles of Stream

Coho Intrinsic Potential	
Km of Historical Coho IP (21.5 C mask)	119
% of IP (21.5 C Mask) with Current Coho Distribution	69%

Spence, B. C., et al., 2008. A framework for assessing the viability of threatened and endangered salmon and steelhead in the North-Central California Coast Recovery Domain. NOAA Tech Memo NMFS-SWFSC-423.

Miles of Waterway ^A	Miles	Number of Dams ^C
Naturally Occurring Waterways		2
Intermittent Stream	244	1 - Impassable
Perennial Stream	96	1 - Temporal Barrier
Artificial Path	4	

^CPassage Assessment Database, Pacific States Marine Fisheries Commission, 2008

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

USGS Gaging Stations ^B	Number of Barriers ^C
11468500 Noyo River near Fort Bragg	36
	2 Dams
	11 Road Crossings (1 Partial, 10 Unknown passage status)
	8 Natural Barriers (Chutes, Falls, Log Jams, etc. (4 Impassable))
	12 Diversions

^CPassage Assessment Database, Pacific States Marine Fisheries Commission, 2008



EPA Total Maximum Daily Load Classification (**TMDL**)^l

High Priority - Sediment / Siltation

Sources: Silviculture, Nonpoint Source

^lState Water Resources Control Board, 2003

Average Annual **Precipitation**^E

57.4"

Average Annual **Precipitation Range**^E

40 - 75"

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

Roads ^A	(US Census Bureau (TIGER))	Miles
Roads in Watershed		
Primary Road / Highway		0
Secondary and connecting road, state highways		4
Local, neighborhood, and rural road, city street, unseparated		237
Vehicular trail, 4WD		5
Driveway or service road		3
Total Miles		

Road Density	(US Census Bureau (TIGER))	
Miles of Roads per SqMi of Watershed		2.2
Miles of Roads per SqMi of 100m Riparian Buffer*		2.3

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

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

Roads ^{A1}	(Timber Harvest Plans)	Miles
Roads in Watershed		
Abandoned Seasonal		2
Bridge		0
Existing Permanent (rocked)		109
Existing Seasonal		632
Existing Temporary & 4WD		16
Proposed Permanent (rocked)		0
Proposed Seasonal		47
Proposed Temporary & 4WD		5
Reconstructed Seasonal		1
Secondary Road (2-3 lanes)		22

Road Density	(Timber Harvest Plans)	
Miles of Roads per SqMi of Watershed		7.2
Miles of Roads per SqMi of 100m Riparian Buffer*		6.5

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

^{A1}California Department of Forestry, Timber Harvest Plans for Noyo Watershed, 2006

Slope ^D	Acres	Percent of watershed
Lands of 0-2 percent slope	925	1%
Lands of 2-4 percent slope	1,336	2%
Lands of 4-10 percent slope	2,840	4%
Lands of 10-15 percent slope	2,692	4%
Lands of 15-30 percent slope	15,241	21%
Lands of 30-60 percent slope	40,267	56%
Lands of 60-100 percent slope	8,787	12%
Lands of > 100 percent slope	192	0%

Elevation Range	6 - 3212 ft.	1.8 - 979 m
------------------------	--------------	-------------

^DSlope derived from USGS 10 meter Digital Elevation Models (DEM's)



Vegetation^G	Acres	Percent of watershed
Annual grassland	2728	4%
Barren	27	0%
Conifer Forest		
Closed-Cone-Pine-Cypress	890	1%
Douglas Fir	3,598	5%
Montane Hardwood-Conifer	796	1%
Redwood	51,447	71%
Hardwood Forest		
Montane Hardwood	9,131	13%
Montane Riparian	37	0%
Shrub	3,200	4%
Urban	405	1%
Water	54	0%

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

Erodability of Watershed^F	Acres	Percent of watershed
Not Ranked	28,317	39%
3	4,982	7%
5	275	0%
6	3,119	4%
8	35,576	49%

^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	58,449	81%
Barnum Timber	1,800	2%
Georgia Pacific	18,070	25%
Mendocino Redwoods	19,652	27%
Others	5,802	8%
State (Forestry)	14,060	19%

^HManagement Landscape, CA Department of Forestry, 2002 and US FWS (data supplied by major landowners who were undergoing an HCP), 2000

Area Under a Timber Harvest Plan^A past 10 years	Area Under a Timber Harvest Plan^A past 20 years
14,929 21% of watershed	43,362 60% of watershed

^ACalifornia Department of Forestry, Timber Harvest Plans for Noyo Watershed, 2006

Population^I	Housing^I
Total Population within the watershed -- 2,340 People	Total Housing Units within the watershed -- 1,143 Houses
	Housing Density
	0 to Less than 1 Housing Unit / 160 Acres 92%
	1 Unit / 160 Acres to 1 Unit / 20 Acres 6%
	1 Unit / 20 Acres to 1 Unit / 5 Acres 1%
	1 Unit / 5 Acres to 2 Units / Acre 1%
	2 Units / Acres to Greater than or Equal to 5 Units / Acre

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



Noyo River

Vegetation density and age class in the entire watershed

California Department of Forestry and Fire Protection; fveg02_2. Vector digital dataset. 100m Grid, 2002.

Acres

Size	Density	Agriculture	Barren	Conifer Forest	Conifer Woodland	Hardwood Forest	Hardwood Woodland	Herbaceous	Shrub	Urban	Water	Wetland	Grand Total by Size class
Not Determined	Not Determined		27					2859	512	57			
	S			2									
	P			2									
	M			2									
	D			10									
	Total		27	16				2859	512	57			3471
Seedling	S												
	P												
	M												
	D												
	Total												0
Sapling	S			82	284								
	P			111	516								
	M			2325	1646								
	D			5456	1127								
	Total			7974	3573								11547
Pole	S			141	215								
	P			255	225								
	M			1196	437								
	D			10285	2063								
	Total			11877	2940								14817
Small Tree	S			62	111								
	P			124	250								
	M			588	361								
	D			6467	1722			3198					
	Total			7241	2444			3198					12883
Medium/Large Tree	S			591									
	P			573									
	M			2113	7								
	D			22291	183								
	Total			25568	190								25758
Multi Layered	D			4013									
	Total			4013									4013
Grand Total by Species Type			27	56689	9147	2859	3198	512	57				72489

Percent

Size	Density	Agriculture	Barren	Conifer Forest	Conifer Woodland	Hardwood Forest	Hardwood Woodland	Herbaceous	Shrub	Urban	Water	Wetland	Grand Total by Size class
Not Determined	Not Determined		0%					4%		1%	0%		
	S			0%									
	P			0%									
	M			0%									
	D			0%		0%							
	Total		0%	0%	0%		4%		1%	0%		5%	
Seedling	S												
	P												
	M												
	D												
	Total												0%
Sapling	S			0%	0%								
	P			0%	1%								
	M			3%	2%								
	D			8%	2%								
	Total			11%	5%								16%
Pole	S			0%	0%								
	P			0%	0%								
	M			2%	1%								
	D			14%	3%								
	Total			16%	4%								20%
Small Tree	S			0%	0%								
	P			0%	0%								
	M			1%	0%								
	D			9%	2%			4%					
	Total			10%	3%		4%						18%
Medium/Large Tree	S			1%									
	P			1%									
	M			3%	0%								
	D			31%	0%								
	Total			35%	0%								36%
Multi Layered	D			6%									
	Total			6%									6%
Grand Total by Species Type			0%	78%	13%	4%	4%	1%	0%				100%

SIZE Description	Diameter at Breast Height (DBH)
Not Determined	N/A
Seedling	Less Than 1 inch
Sapling	1 to 6 inches
Pole	6 to 11 inches
Small Tree	11 to 24 inches
Medium/Large Tree	Greater Than 24 inches
Multi Layered	Size 5 Over Size 4 Or 3; Total Tree Crown Closure Greater Than 60%

SIZE (SHRUB) Desc.	Crown Decadence	DENSITY	Description
Not Determined	N/A		None
Seedling Shrub	Seedlings or sprouts < 3 years	S	10 to 24%
Young Shrub	None	P	25 to 39%
Mature Shrub	1 - 25%	M	40 to 59%
Decadent Shrub	> 25%	D	60 to 100%

Noyo River

Vegetation within Riparian Buffer (100 meter on either side of stream)

California Department of Forestry and Fire Protection; fveg02_2. Vector digital dataset. 100m Grid, 2002.

Acres

Size	Density	Agriculture	Barren	Conifer Forest	Conifer Woodland	Hardwood Forest	Hardwood Woodland	Herbaceous	Shrub	Urban	Water	Wetland	Grand Total by Size class
Not Determined	Not Determined		7.0					628.0	54.0	25.0			
	S			2.0									
	P												
	M			2.0									
	Total		7.0	4.0				628.0	54.0	25.0			718
Seedling	S												
	P												
	M												
	D												
	Total												0
Sapling	S			20.0	106.0								
	P			37.0	175.0								
	M			608.0	526.0								
	D			1707.0	390.0								
	Total			2372.0	1197.0								3569
Pole	S			52.0	84.0								
	P			106.0	42.0								
	M			343.0	133.0								
	D			3652.0	615.0								
	Total			4153.0	874.0								5027
Small Tree	S			20.0	35.0								
	P			35.0	91.0								
	M			141.0	124.0								
	D			2145.0	442.0			1110.0					
	Total			2341.0	692.0			1110.0					4143
Medium/Large Tree	S			232.0									
	P			245.0									
	M			729.0									
	D			9308.0	62.0								
	Total			10514.0	62.0								10576
Multi Layered	D			1404.0									
	Total			1404.0									1404
Grand Total by Species Type		0	7	20788	0	2825	0	628	1110	54	25	0	25437

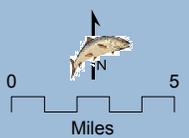
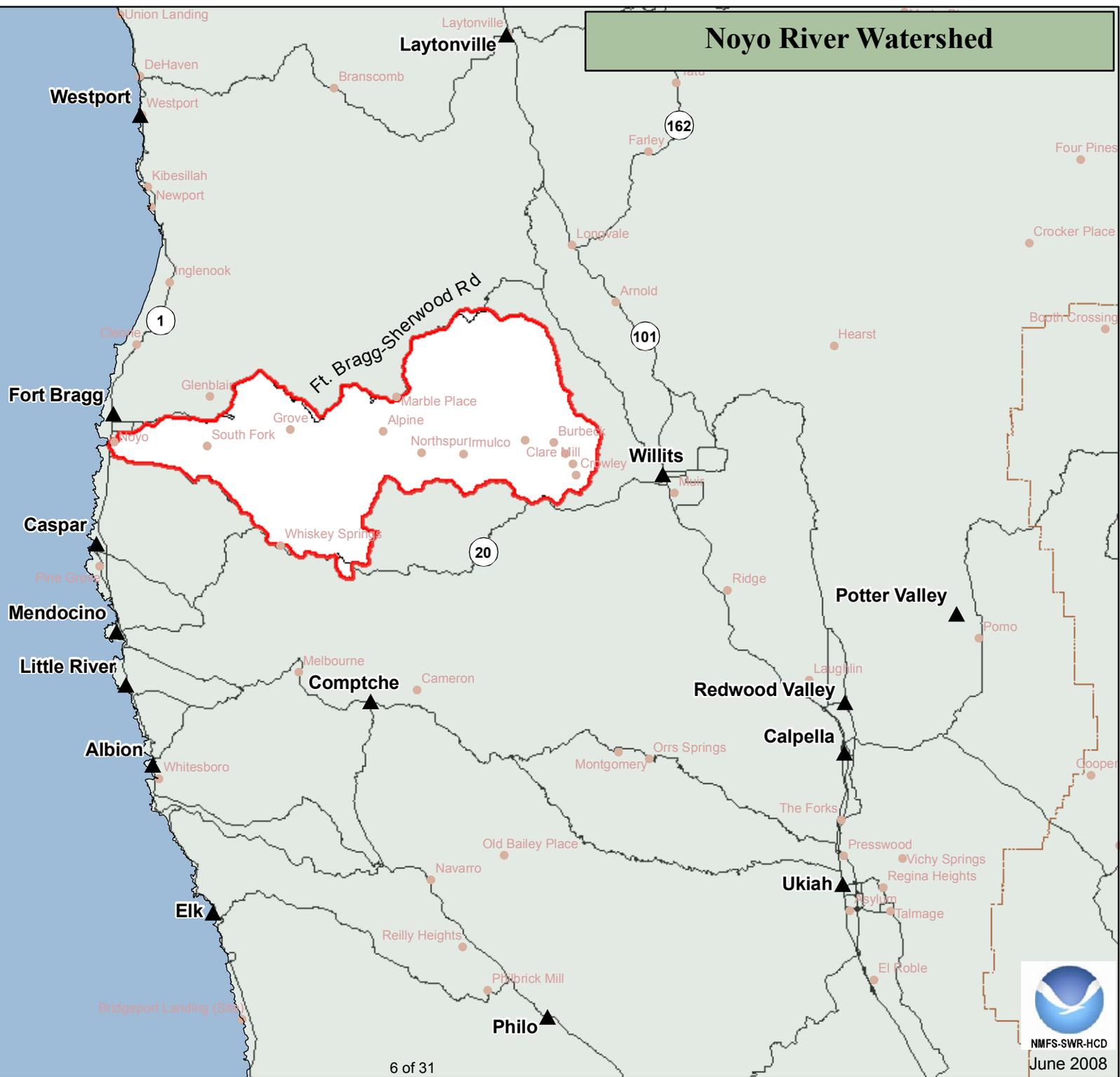
Percent

Size	Density	Agriculture	Barren	Conifer Forest	Conifer Woodland	Hardwood Forest	Hardwood Woodland	Herbaceous	Shrub	Urban	Water	Wetland	Grand Total by Size class
Not Determined	Not Determined		0%					2%	0%	0%			
	S			0%									
	P												
	M			0%									
	Total		0%					2%	0%	0%			3%
Seedling	S												
	P												
	M												
	D												
	Total												0%
Sapling	S			0%	0%								
	P			0%	1%								
	M			2%	2%								
	D			7%	2%								
	Total			9%	5%								14%
Pole	S			0%	0%								
	P			0%	0%								
	M			1%	1%								
	D			14%	2%								
	Total			16%	3%								20%
Small Tree	S			0%	0%								
	P			0%	0%								
	M			1%	0%								
	D			8%	2%			4%					
	Total			9%	3%		4%						16%
Medium/Large Tree	S			1%									
	P			1%									
	M			3%									
	D			37%	0%								
	Total			41%	0%								42%
Multi Layered	D			6%									
	Total			6%									6%
Grand Total by Species Type		0%	82%	0%	11%	0%	2%	4%	0%	0%	0%	0%	100%

SIZE	Description	Diameter at Breast Height (DBH)
Not Determined	N/A	
Seedling	Less Than 1 inch	
Sapling	1 to 6 inches	
Pole	6 to 11 inches	
Small Tree	11 to 24 inches	
Medium/Large Tree	Greater Than 24 inches	
Multi Layered	Size 5 Over Size 4 Or 3; Total Tree Crown Closure Greater Than 60%	

SIZE (SHRUB)	Desc.	Crown Decadence	DENSITY	Description
Not Determined	N/A			None
Seedling Shrub	Seedlings or sprouts < 3 years		S	10 to 24%
Young Shrub	None		P	25 to 39%
Mature Shrub	1 - 25%		M	40 to 59%
Decadent Shrub	> 25%		D	60 to 100%

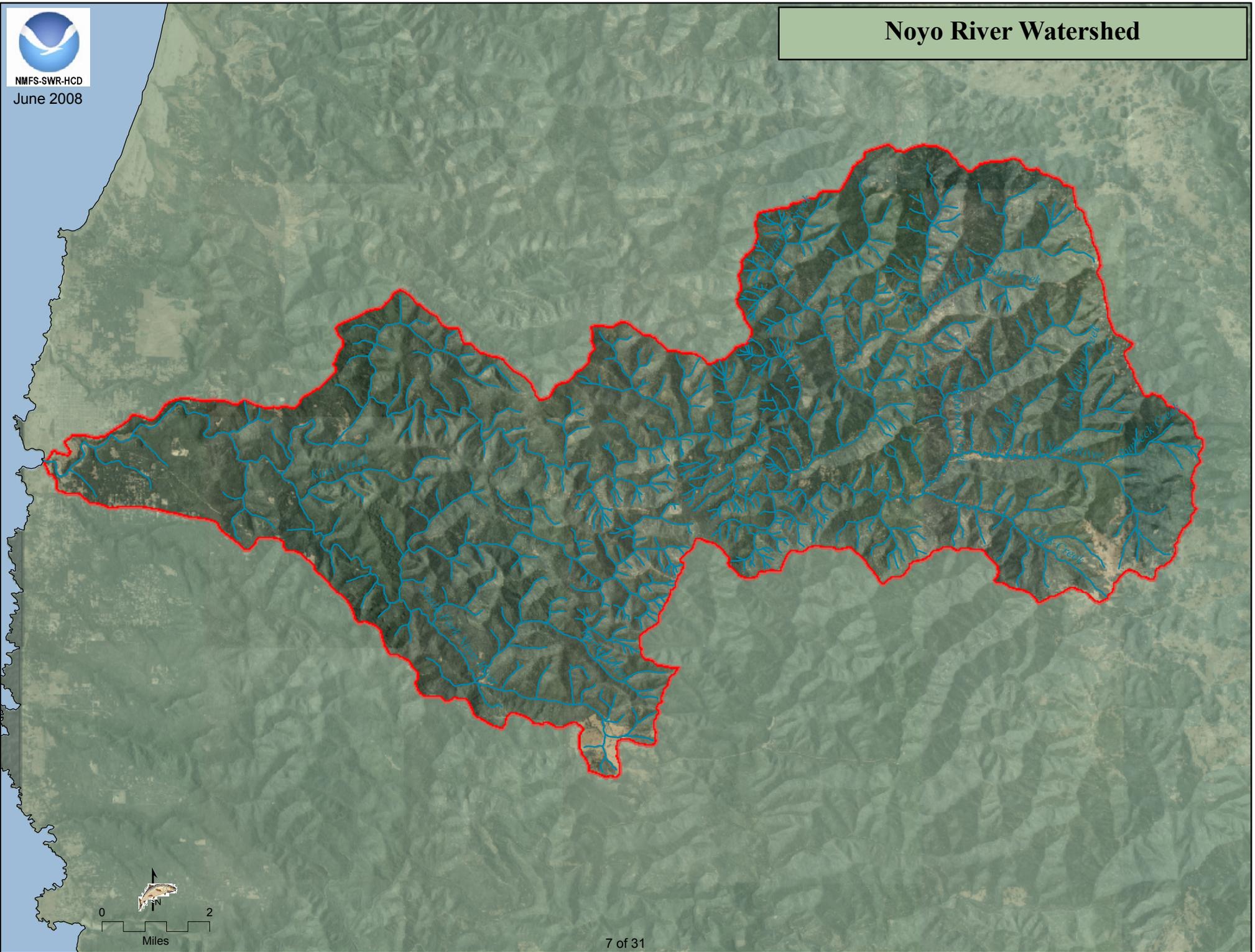
Noyo River Watershed





NMFS-SWR-HCD
June 2008

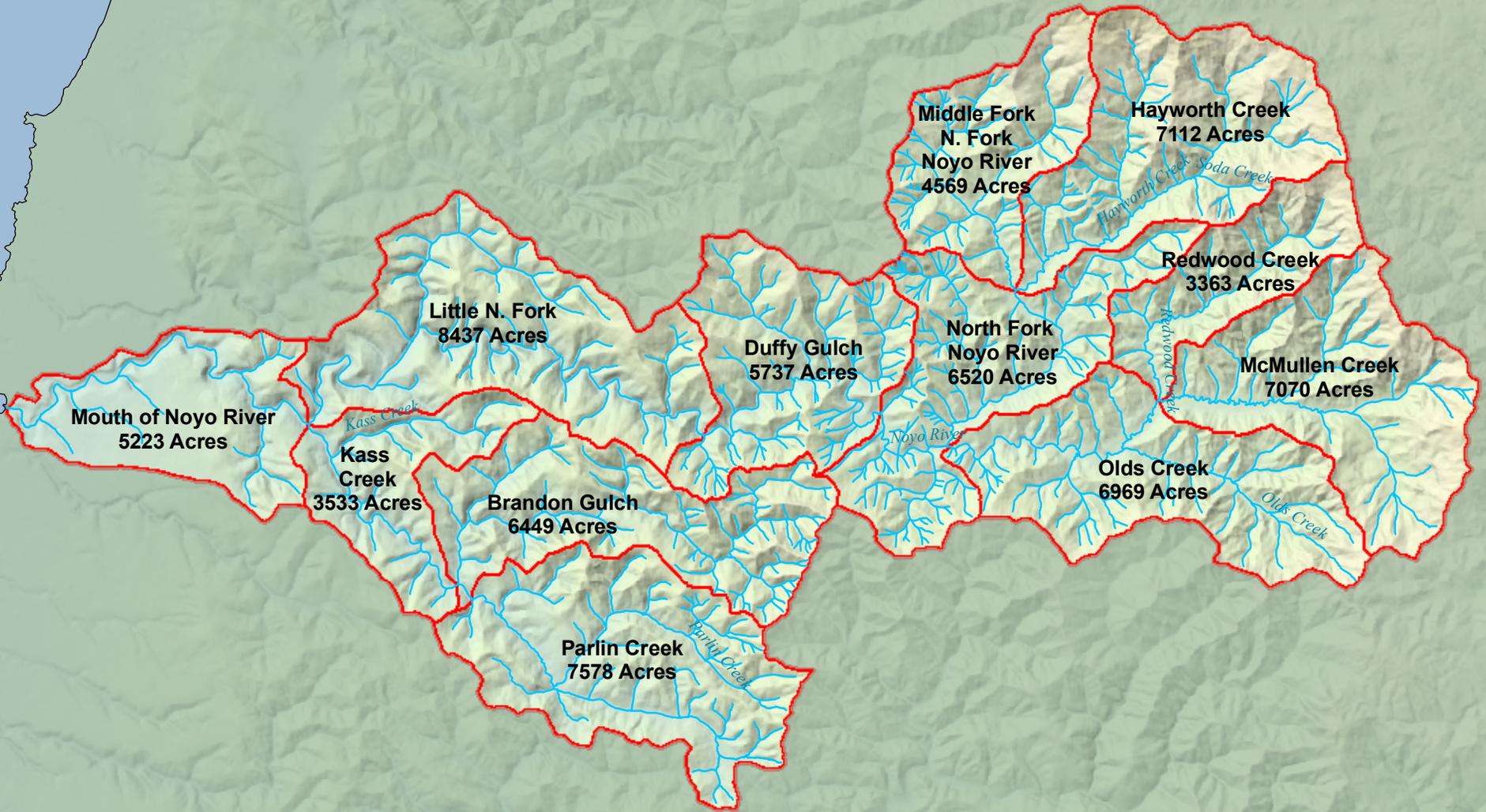
Noyo River Watershed





NMFS-SWR-HCD
June 2008

Noyo River Watershed CalWater Planning Watersheds

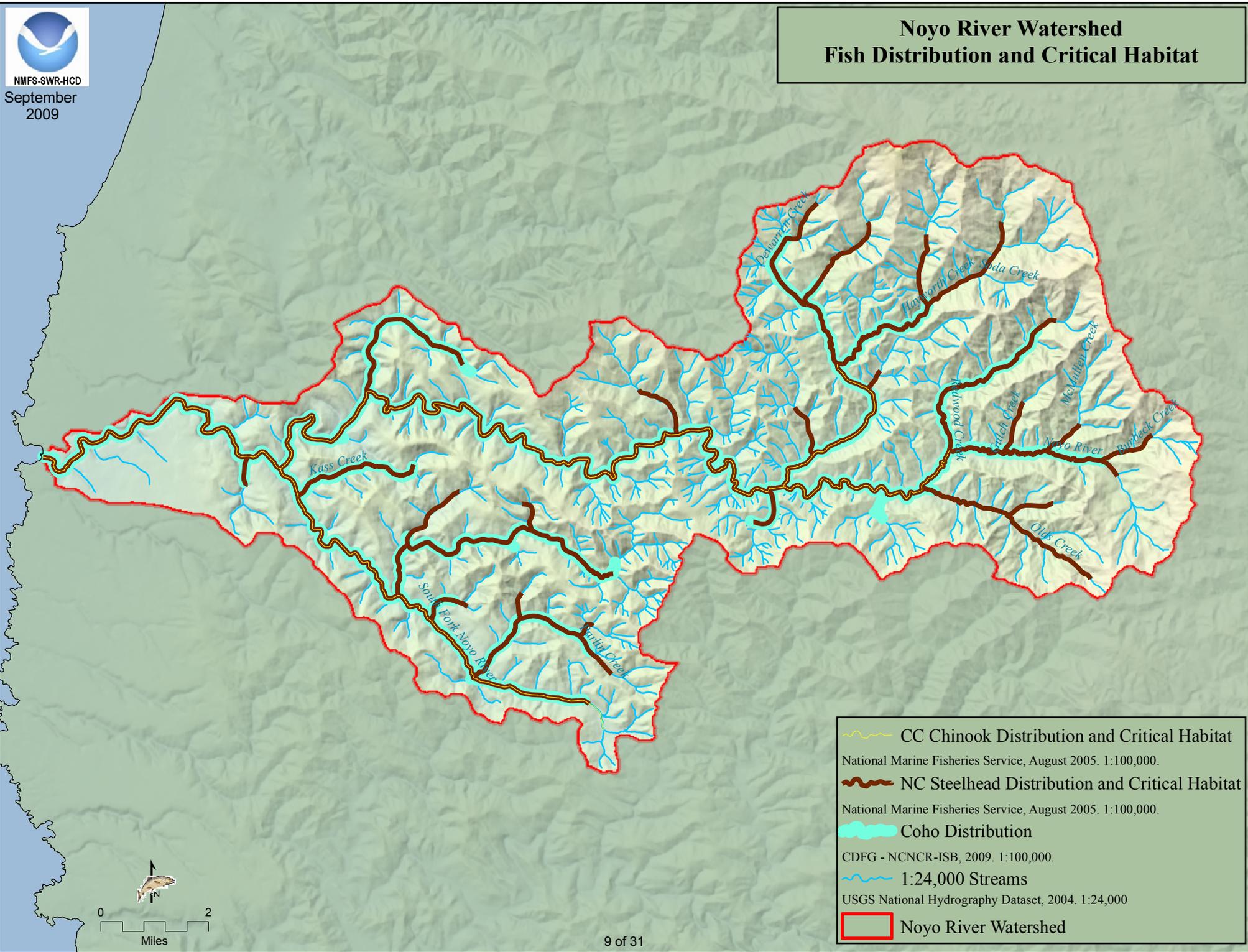




NMFS-SWR-HCD

September 2009

Noyo River Watershed Fish Distribution and Critical Habitat



-  CC Chinook Distribution and Critical Habitat
National Marine Fisheries Service, August 2005. 1:100,000.
-  NC Steelhead Distribution and Critical Habitat
National Marine Fisheries Service, August 2005. 1:100,000.
-  Coho Distribution
CDFG - NCNCR-ISB, 2009. 1:100,000.
-  1:24,000 Streams
USGS National Hydrography Dataset, 2004. 1:24,000
-  Noyo River Watershed





NMFS-SWR-HCD
June 2008

Noyo River Watershed Steelhead Current vs. Historical



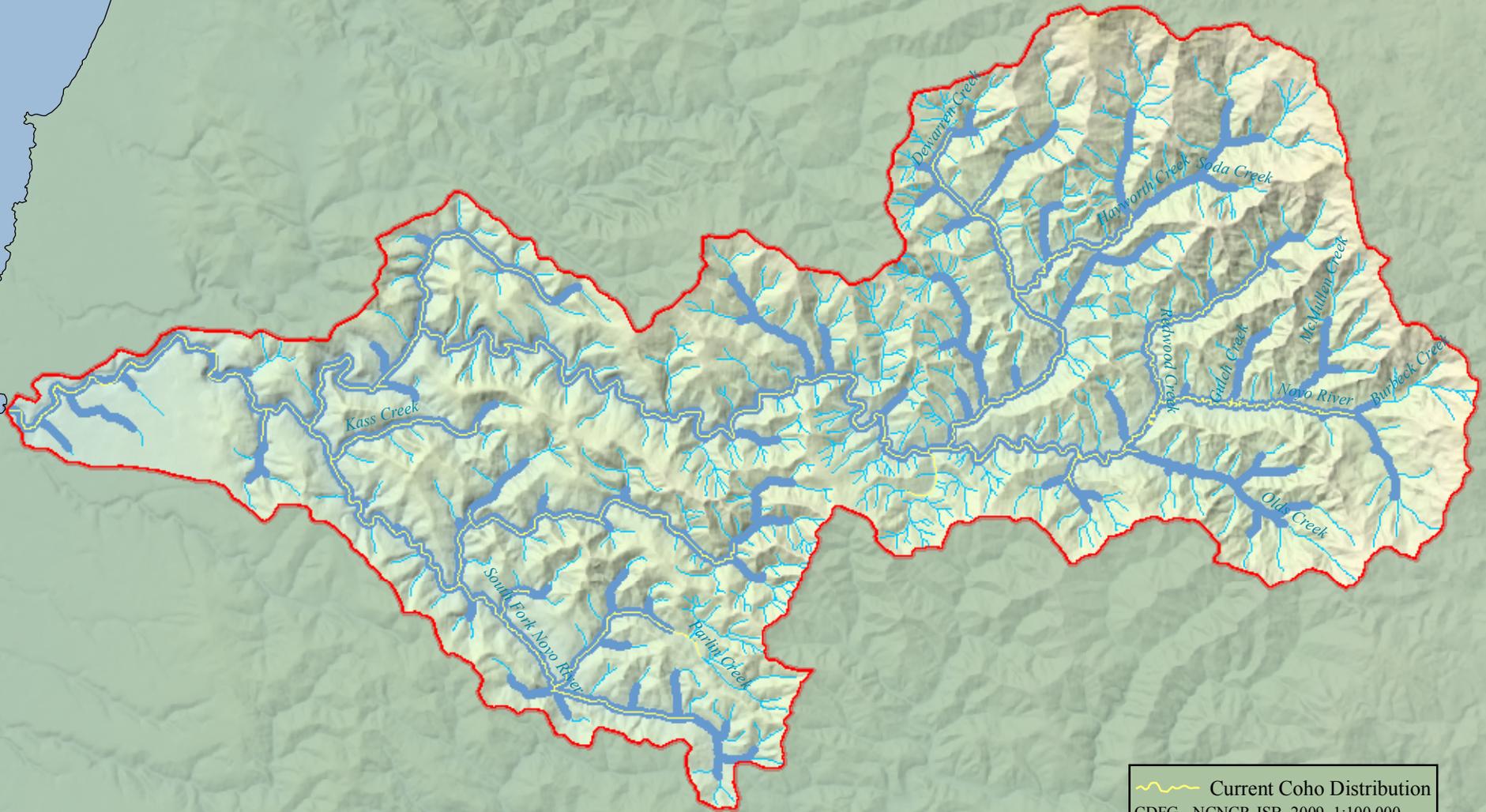
- Current NC Steelhead Distribution
National Marine Fisheries Service,
August 2005. 1:100,000.
- Steelhead Intrinsic Potential
NMFS SWR Fisheries Science Center, 2005.
Potential historical suitable habitat
- 1:24,000 Streams
USGS National Hydrography Dataset, 2004. 1:24,000
- Noyo River Watershed





NMFS-SWR-HCD
September
2009

Noyo River Watershed Coho Current vs. Historical



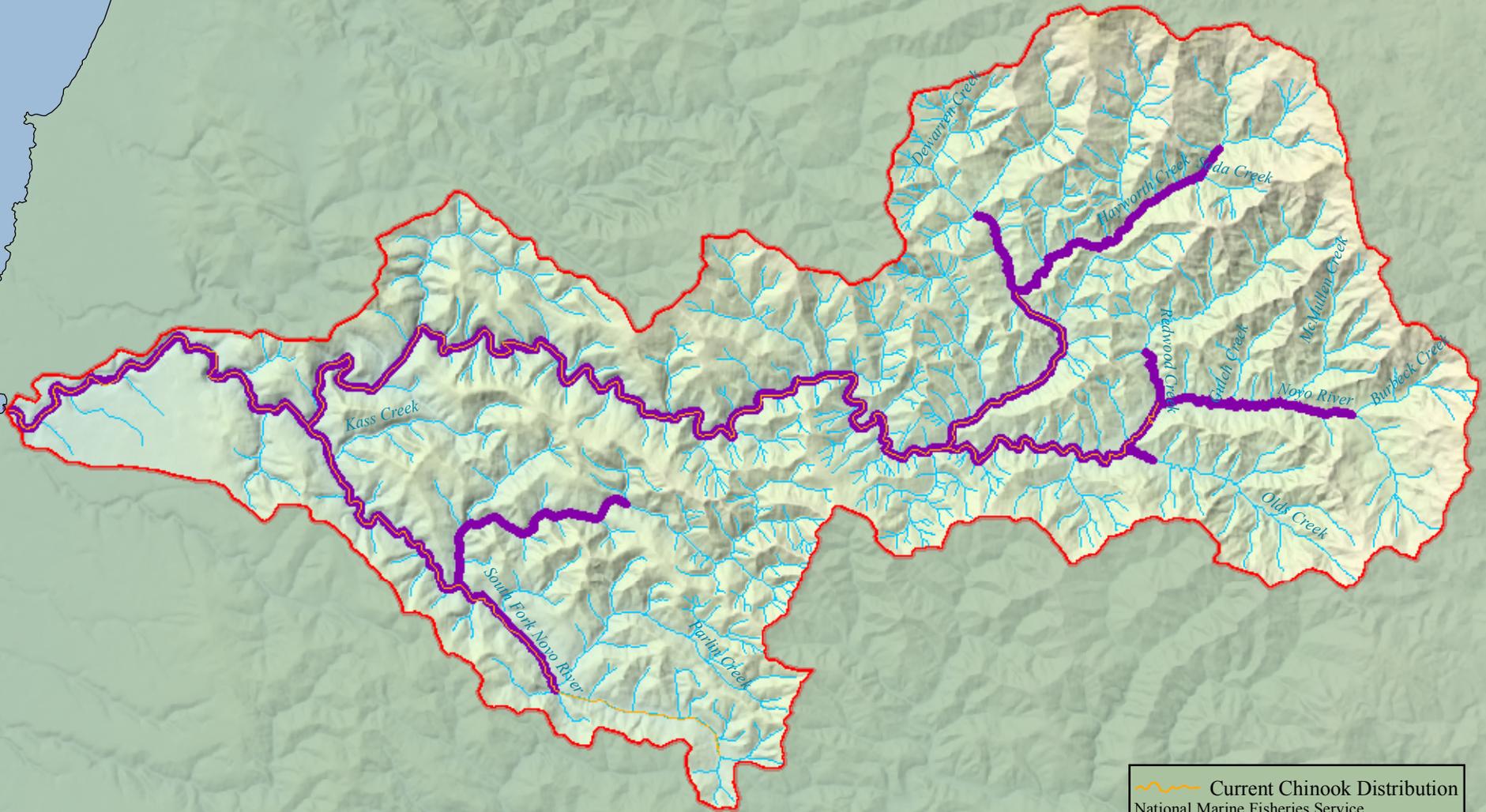
-  Current Coho Distribution
CDFG - NCNCR-ISB, 2009. 1:100,000.
-  Coho Intrinsic Potential
NMFS SWR Fisheries Science Center, 2005.
Potential historical suitable habitat
-  1:24,000 Streams
USGS National Hydrography Dataset,
2004. 1:24,000
-  Noyo River Watershed





NMFS-SWR-HCD
June 2008

Noyo River Watershed Chinook Current vs. Historical



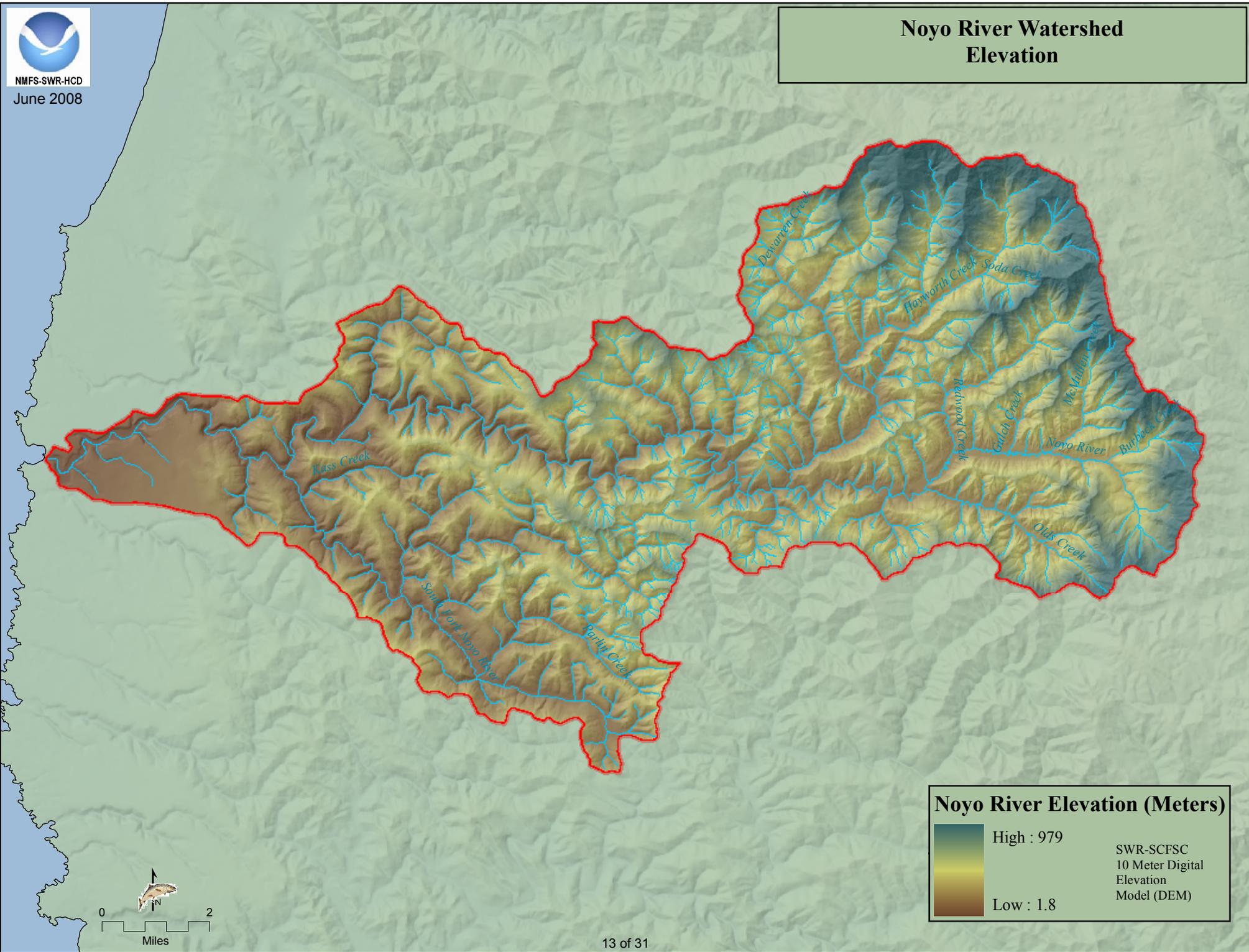
- Current Chinook Distribution
National Marine Fisheries Service,
August 2005. 1:100,000.
- Chinook Intrinsic Potential
NMFS SWR Fisheries Science Center, 2005.
Potential historical suitable habitat
- 1:24,000 Streams
USGS National Hydrography Dataset,
2004. 1:24,000
- Noyo River Watershed





NMFS-SWR-HCD
June 2008

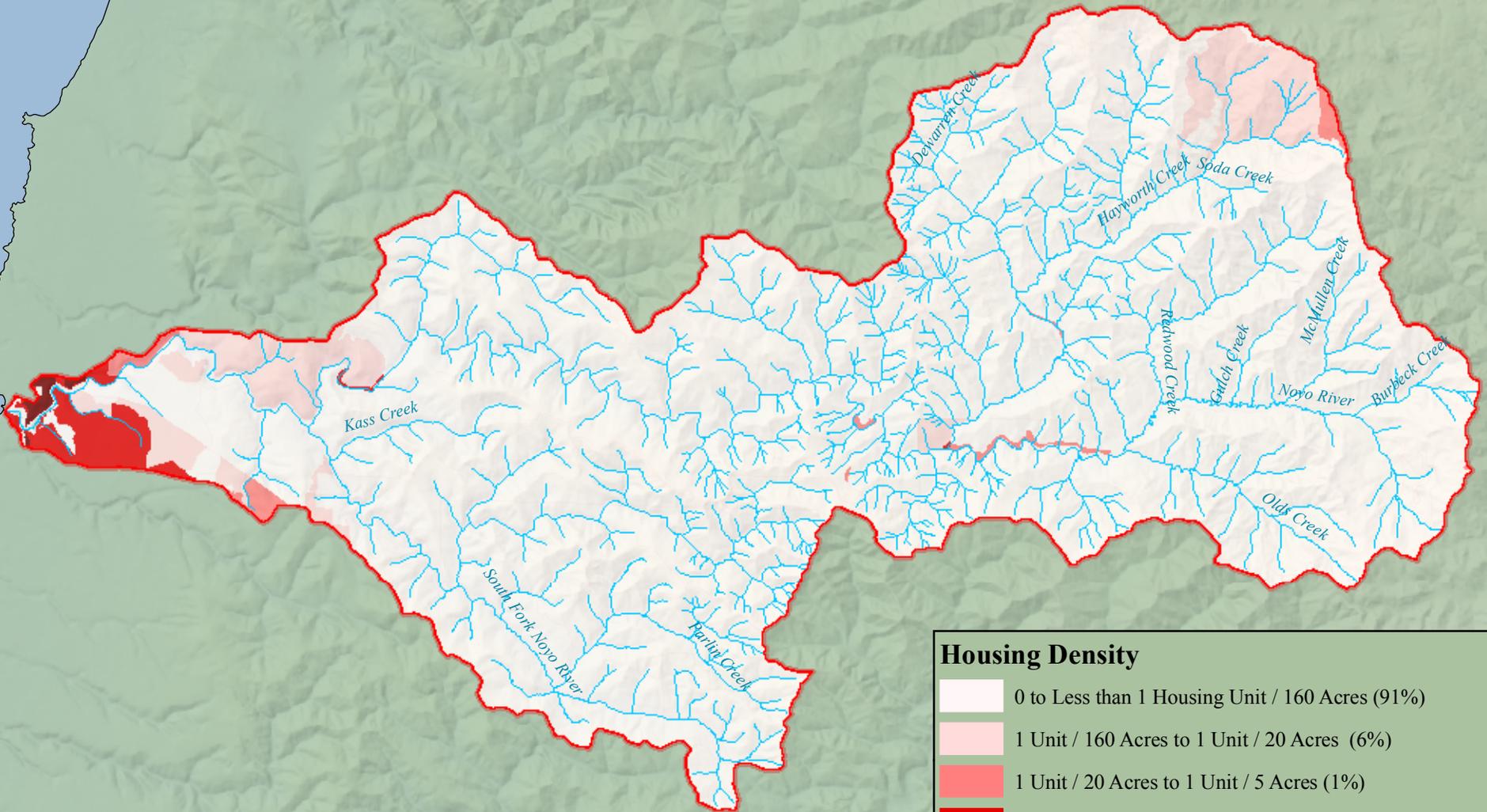
Noyo River Watershed Elevation





NMFS-SWR-HCD
June 2008

Noyo River Watershed Development



Housing Density

	0 to Less than 1 Housing Unit / 160 Acres (91%)
	1 Unit / 160 Acres to 1 Unit / 20 Acres (6%)
	1 Unit / 20 Acres to 1 Unit / 5 Acres (1%)
	1 Unit / 5 Acres to 2 Units / Acre (1%)
	2 Units / Acre to Greater than or Equal to 5 Units / Acre

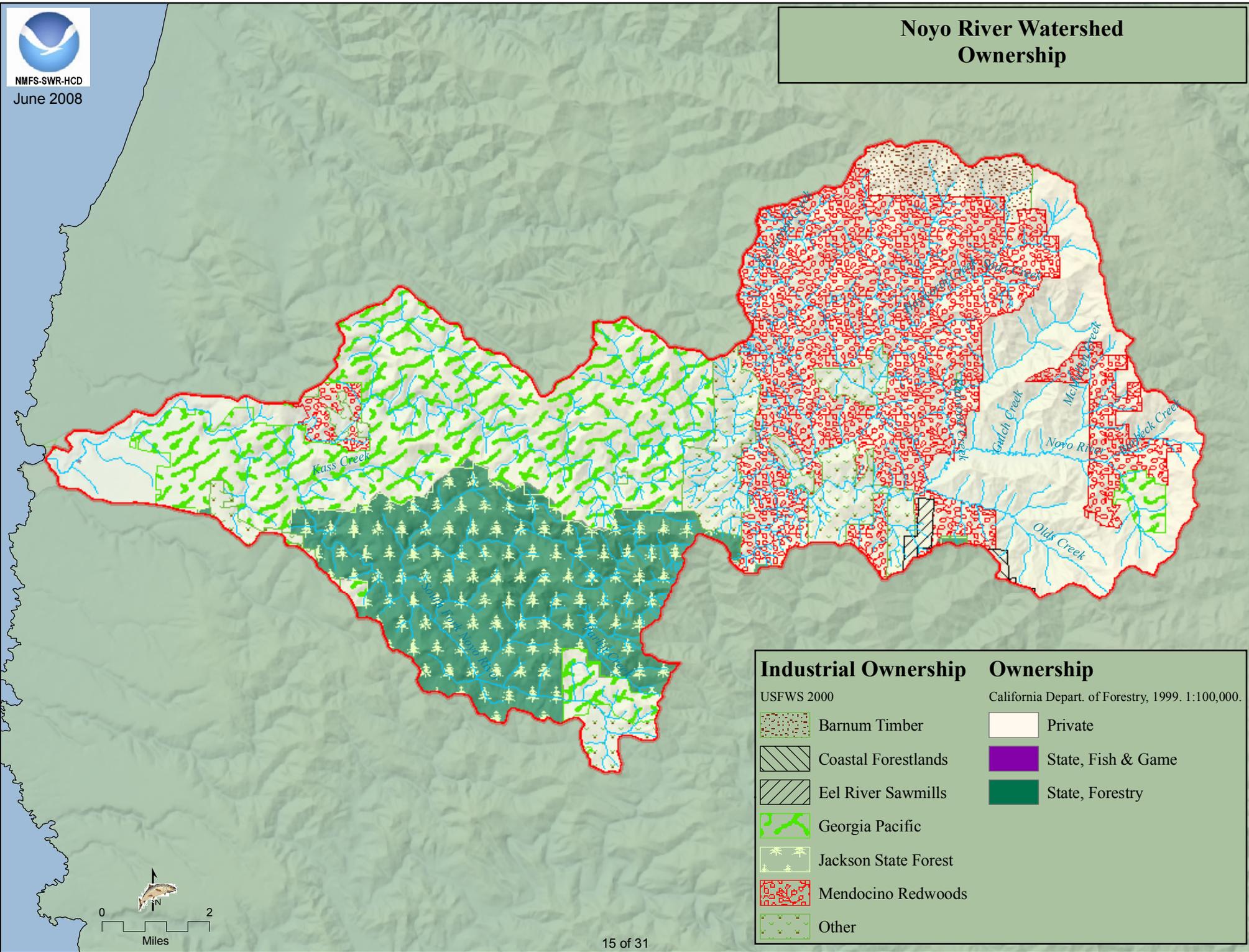
Population within the Watershed = 2,340 People
Houses within the Watershed = 1,143
California Department of Forestry, 2003. 1:100,000.





NMFS-SWR-HCD
June 2008

Noyo River Watershed Ownership



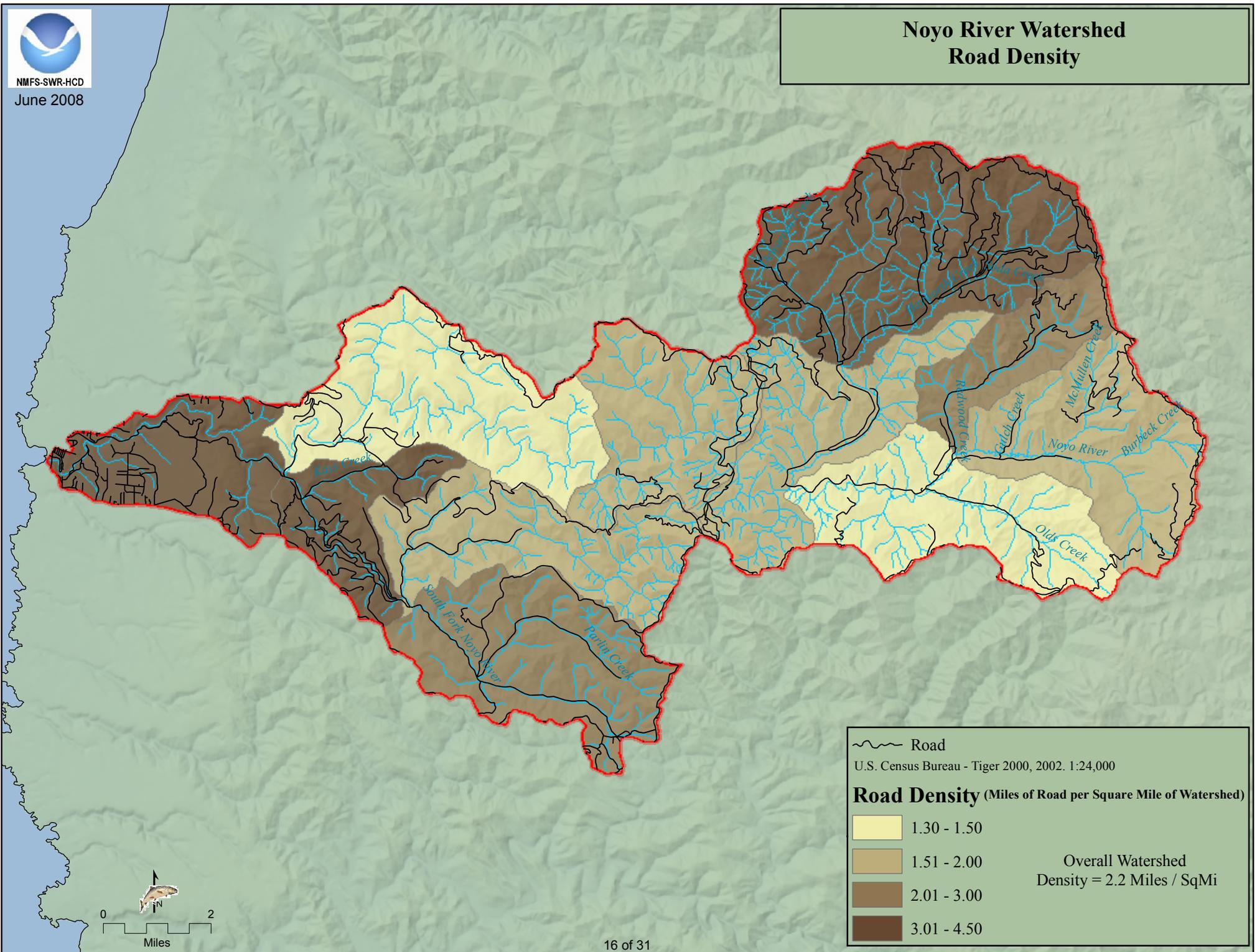
Industrial Ownership		Ownership	
USFWS 2000		California Dept. of Forestry, 1999. 1:100,000.	
	Barnum Timber		Private
	Coastal Forestlands		State, Fish & Game
	Eel River Sawmills		State, Forestry
	Georgia Pacific		
	Jackson State Forest		
	Mendocino Redwoods		
	Other		





NMFS-SWR-HCD
June 2008

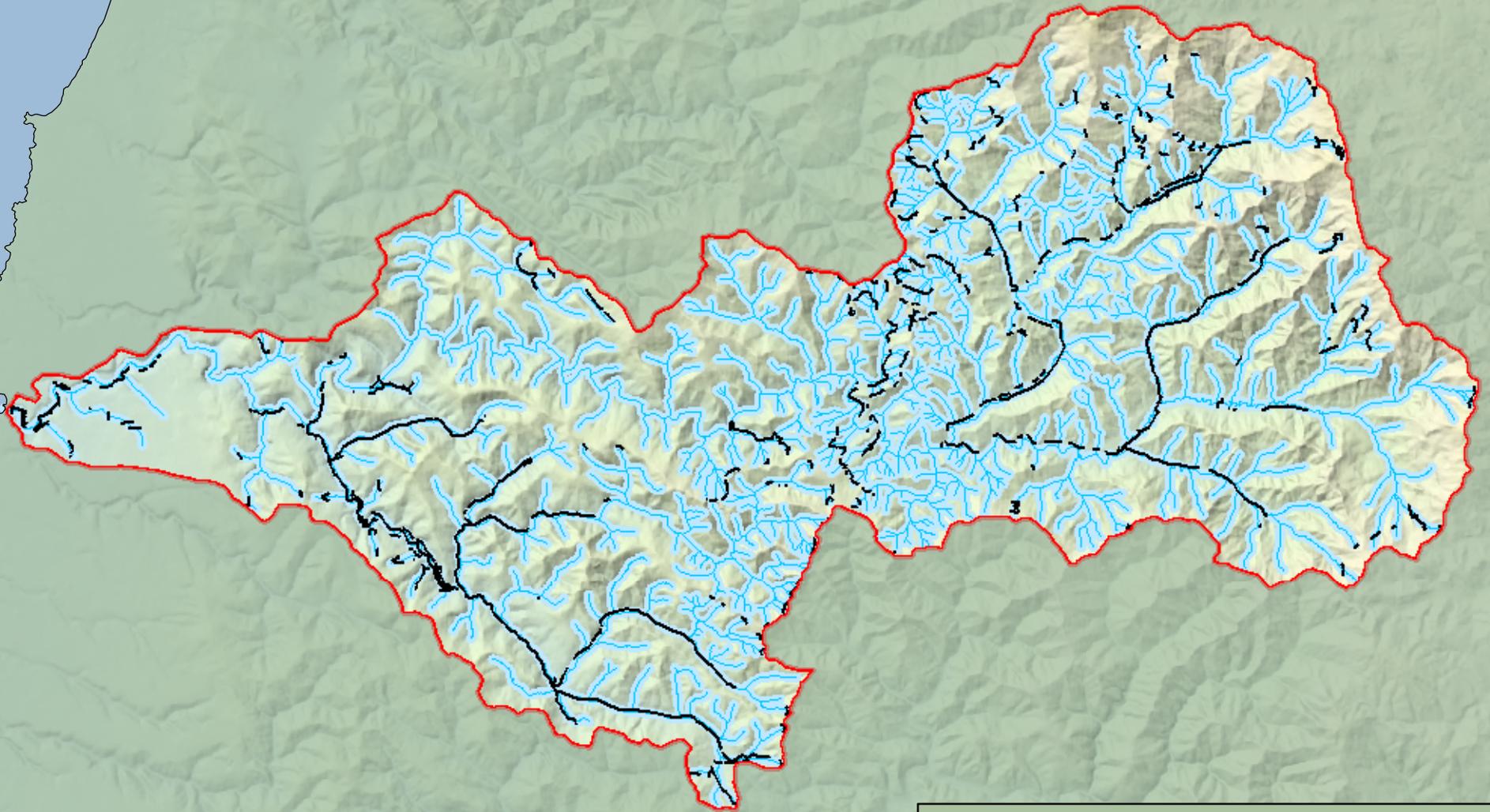
Noyo River Watershed Road Density





NMFS-SWR-HCD
June 2008

Noyo River Watershed Road Density in the Riparian Corridor



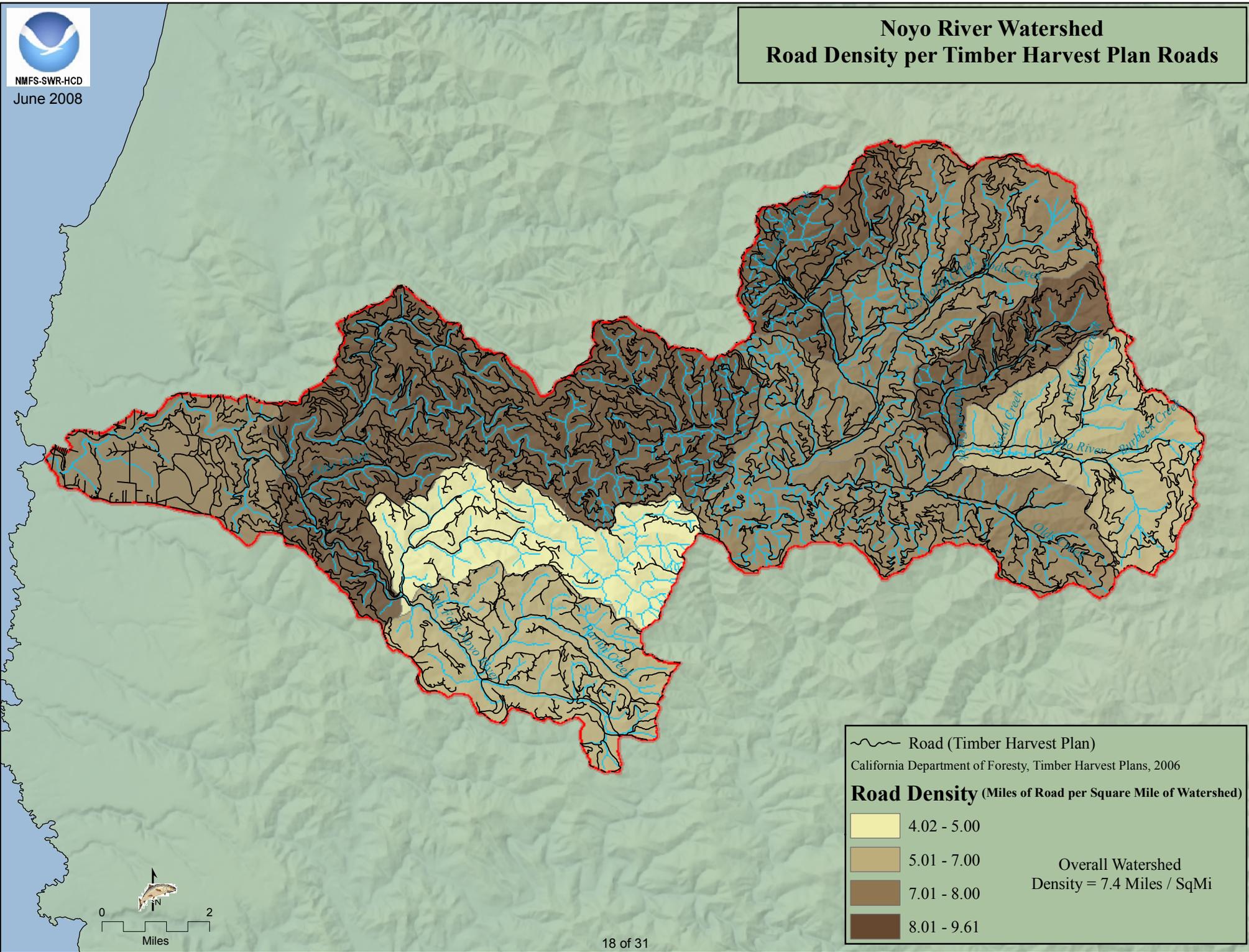
-  Road Segments within the 200 meter Riparian Corridor
U.S. Census Bureau - Tiger 2000, 2002. 1:24,000
 -  1:24,000 Streams
USGS National Hydrography Dataset, 2004. 1:24,000
 -  200 Meter Riparian Buffer (100 m on either side of stream centerline)
- Overall Riparian Corridor Density = 2.3 Miles / SqMi of Corridor





NMFS-SWR-HCD
June 2008

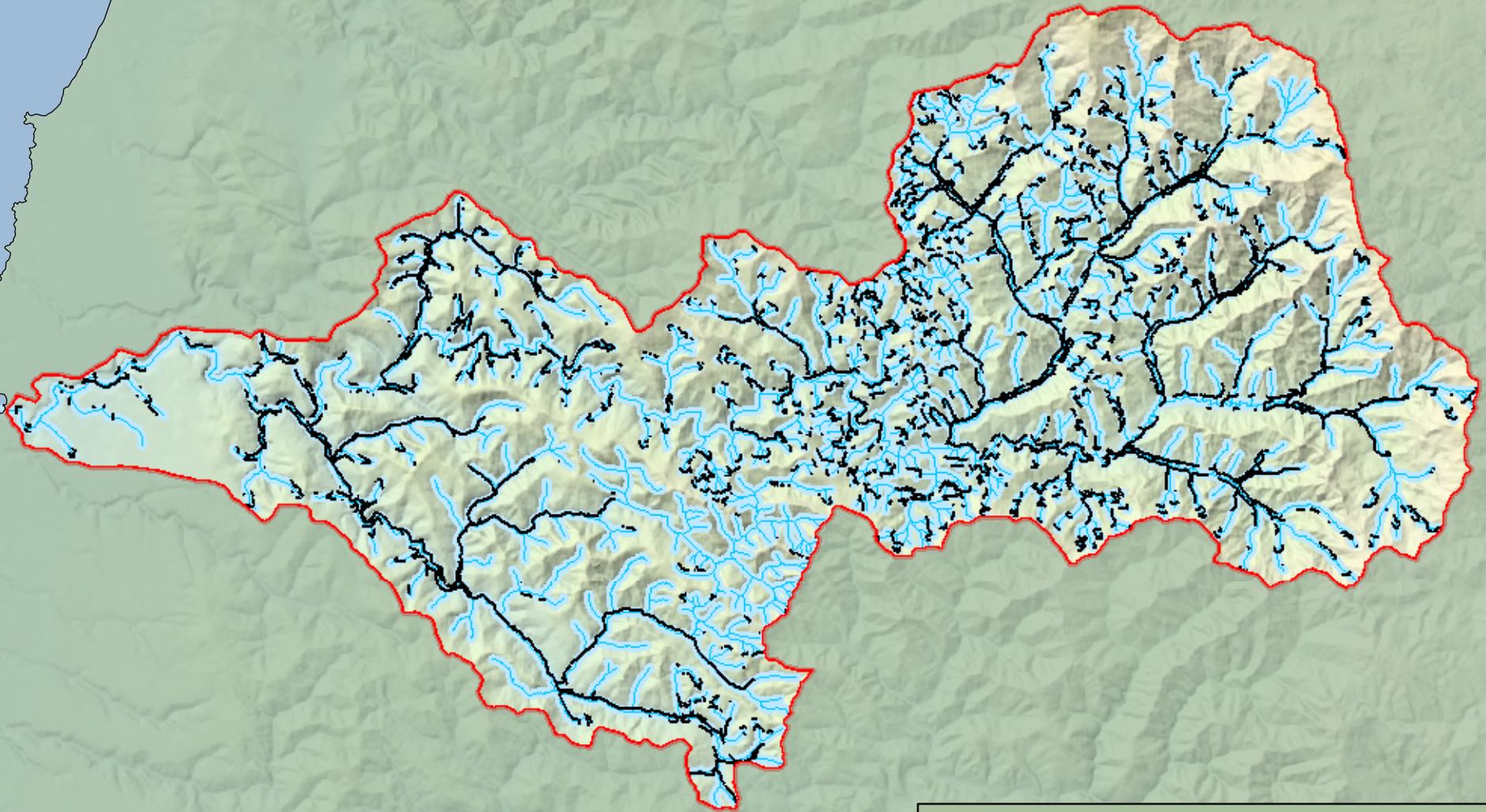
Noyo River Watershed Road Density per Timber Harvest Plan Roads





NMFS-SWR-HCD
June 2008

Noyo River Watershed Road Density in the Riparian Corridor per Timber Harvest Plan Roads



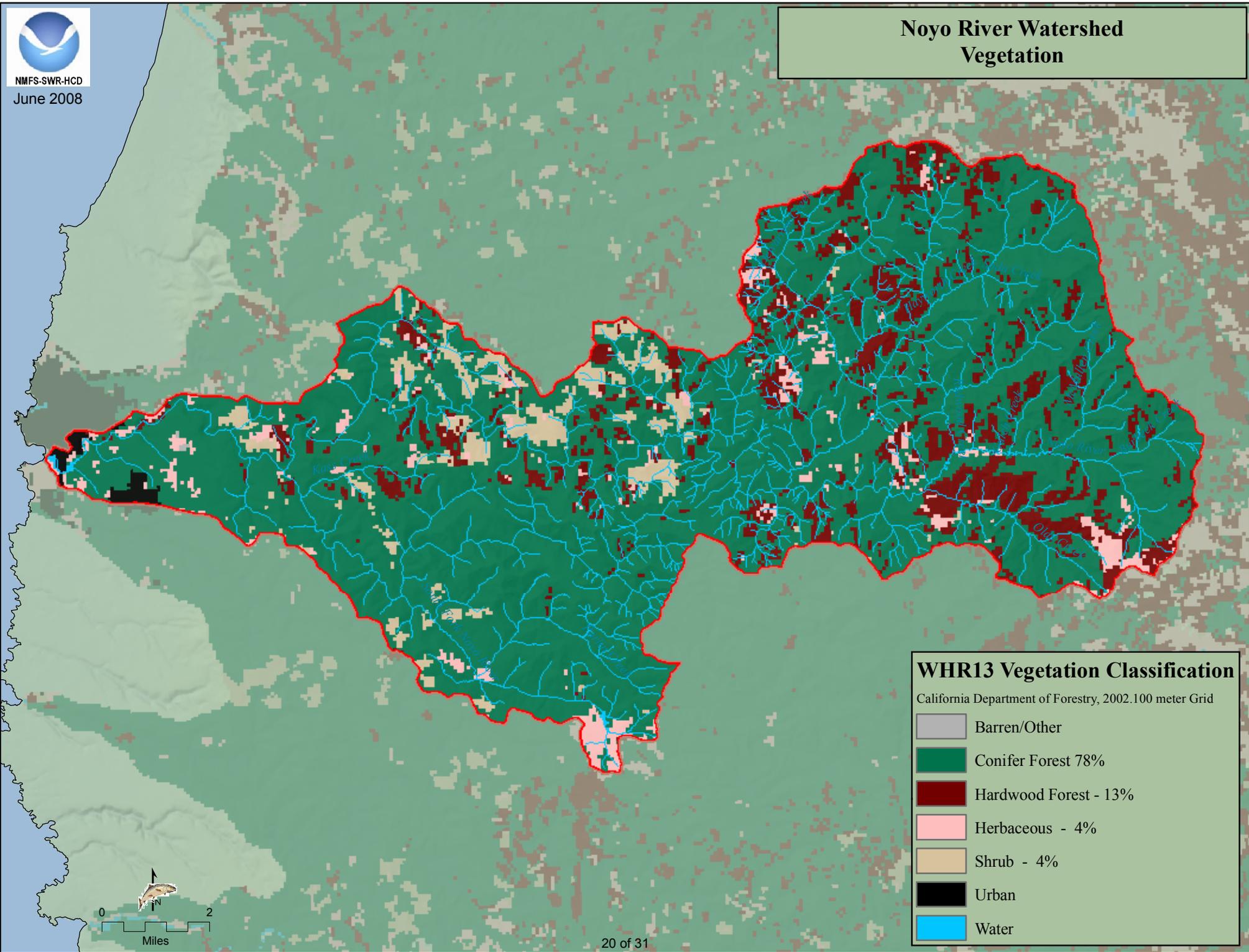
-  Road Segments within the 200 meter Riparian Corridor
California Department of Forestry, Timber Harvest Plans, 2006
 -  1:24,000 Streams
USGS National Hydrography Dataset, 2004. 1:24,000
 -  200 Meter Riparian Buffer (100 m on either side of stream centerline)
- Overall Riparian Corridor Density = 6.5 Miles / SqMi of Corridor





NMFS-SWR-HCD
June 2008

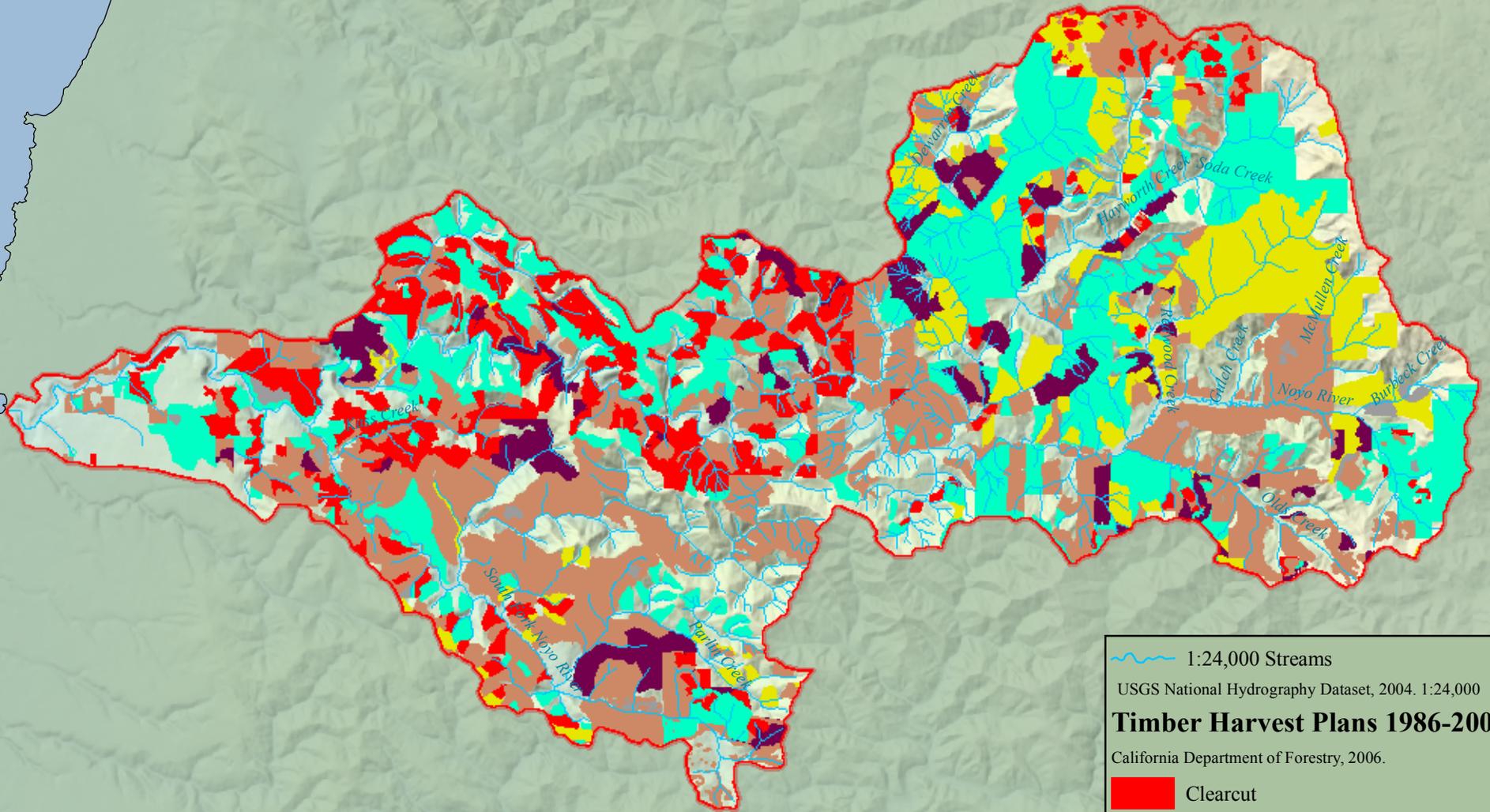
Noyo River Watershed Vegetation





NMFS-SWR-HCD
June 2008

Noyo River Watershed Timber Harvesting 1986-2006



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

Timber Harvest Plans 1986-2006
California Department of Forestry, 2006.

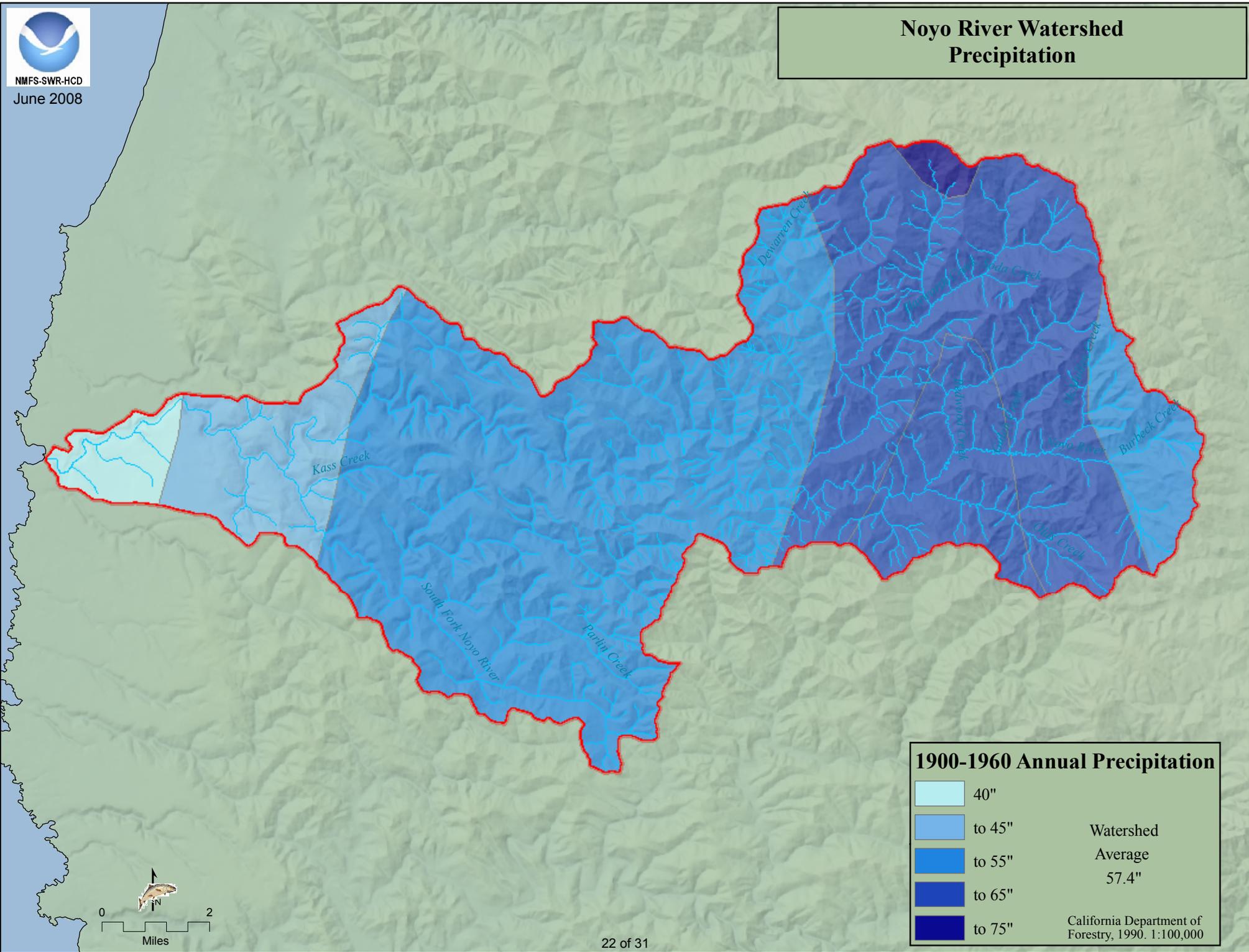
-  Clearcut
-  Uneven Age Removal
-  Even age Removal
-  Alternative Prescription
-  Transition
-  Out





NMFS-SWR-HCD
June 2008

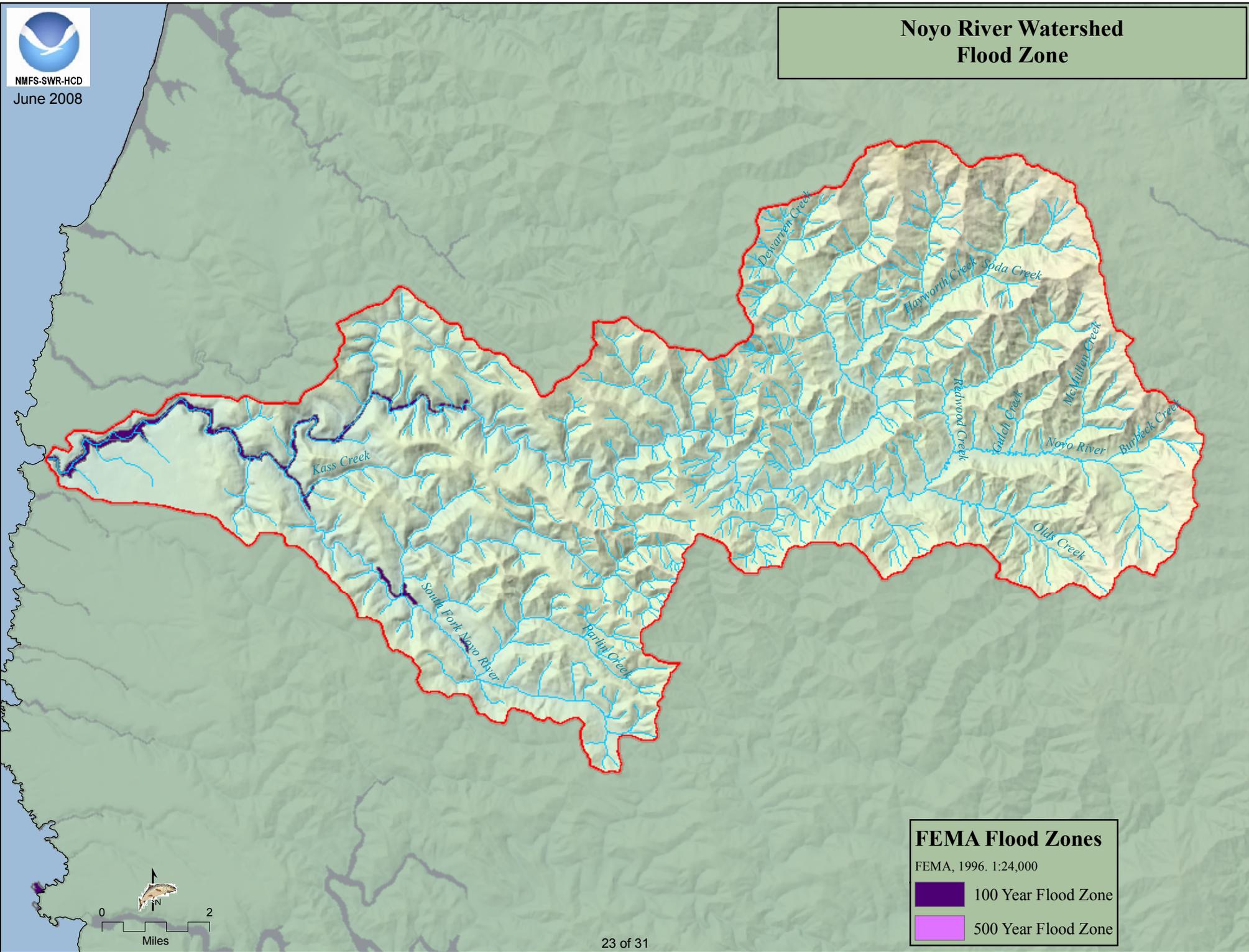
Noyo River Watershed Precipitation





NMFS-SWR-HCD
June 2008

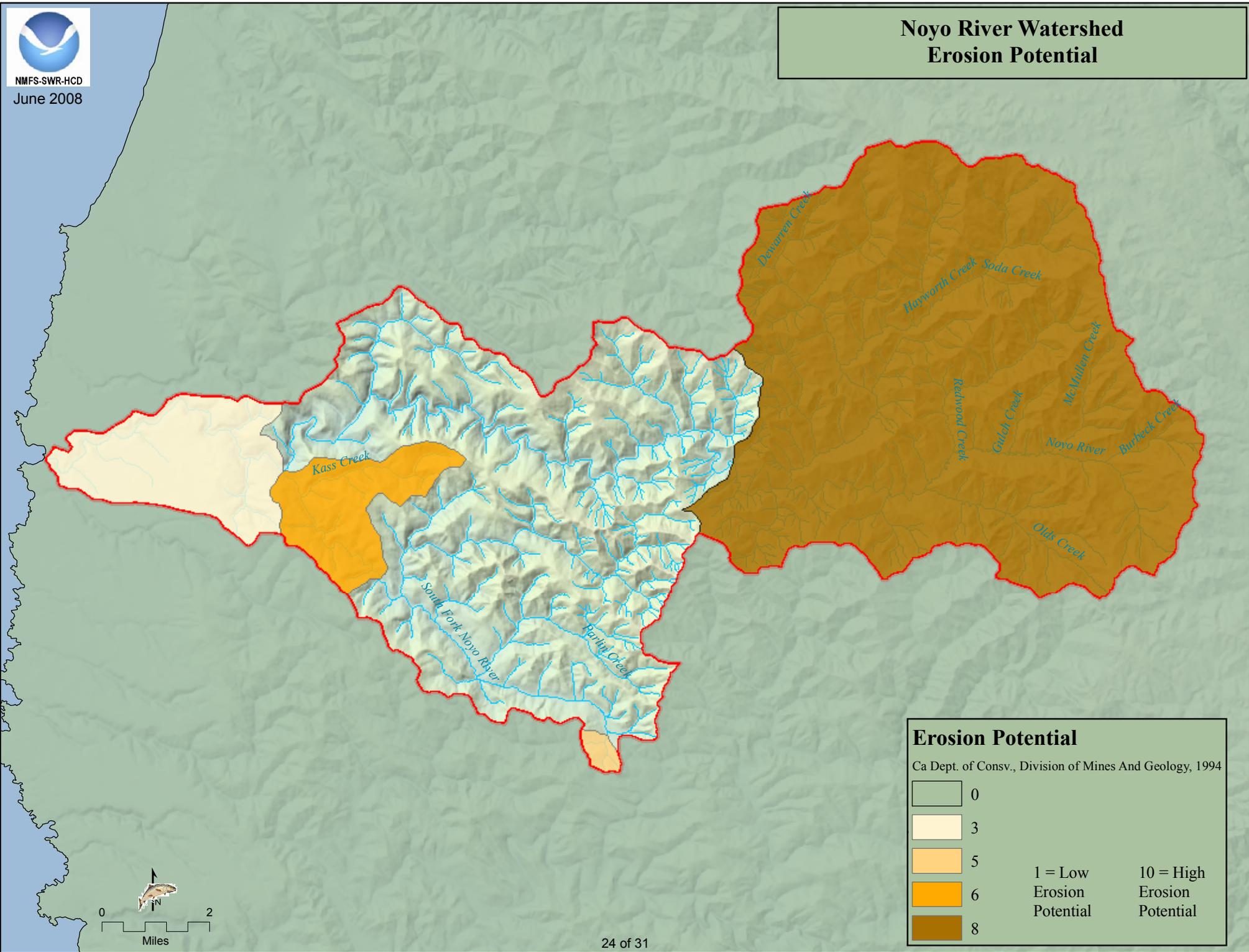
Noyo River Watershed Flood Zone





NMFS-SWR-HCD
June 2008

Noyo River Watershed Erosion Potential



Erosion Potential
Ca Dept. of Conserv., Division of Mines And Geology, 1994

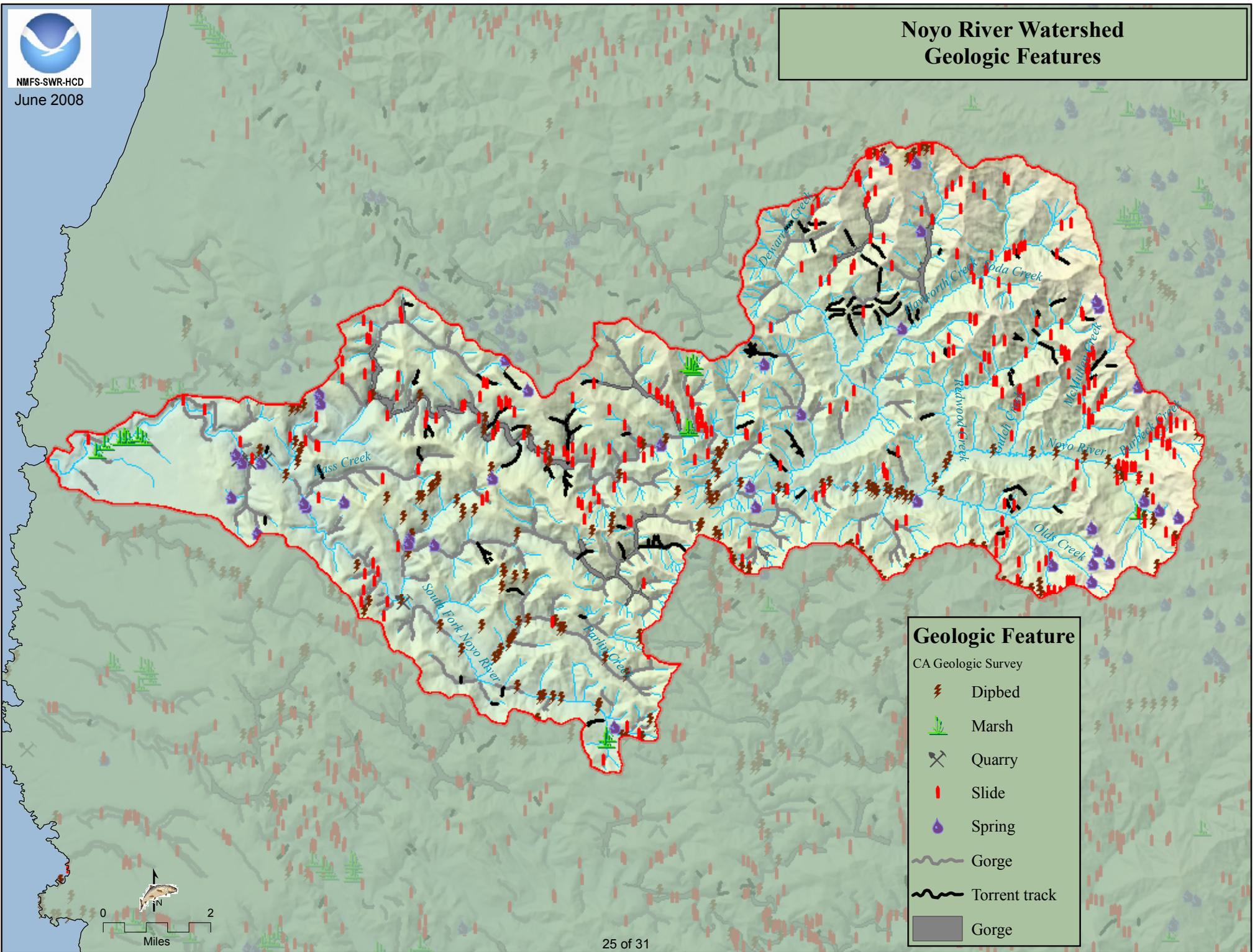
	0		
	3		
	5		
	6	1 = Low	10 = High
		Erosion	Erosion
	8	Potential	Potential





NMFS-SWR-HCD
June 2008

Noyo River Watershed Geologic Features



Geologic Feature

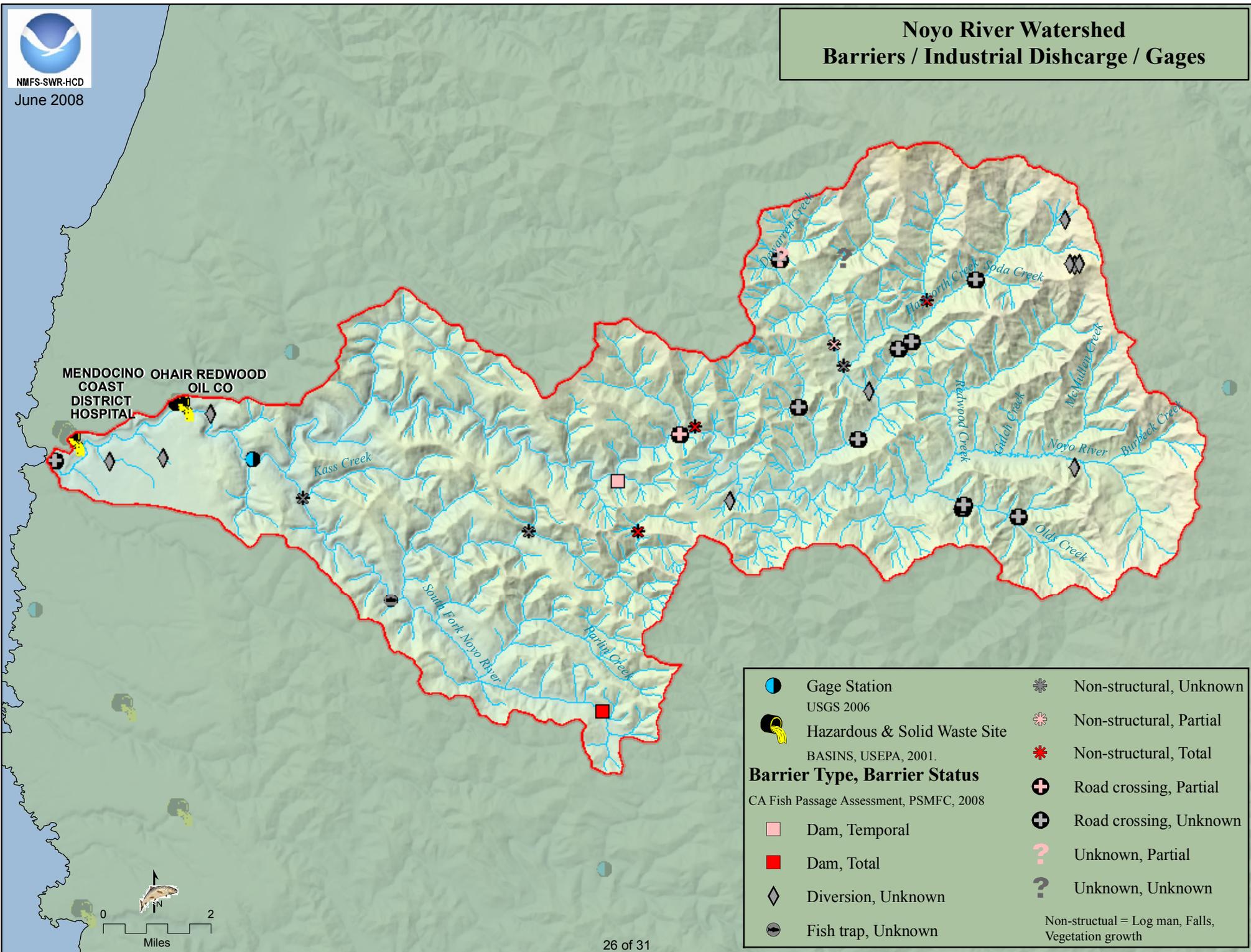
- CA Geologic Survey
- Dipped
 - Marsh
 - Quarry
 - Slide
 - Spring
 - Gorge
 - Torrent track
 - Gorge





NMFS-SWR-HCD
June 2008

Noyo River Watershed Barriers / Industrial Discharge / Gages

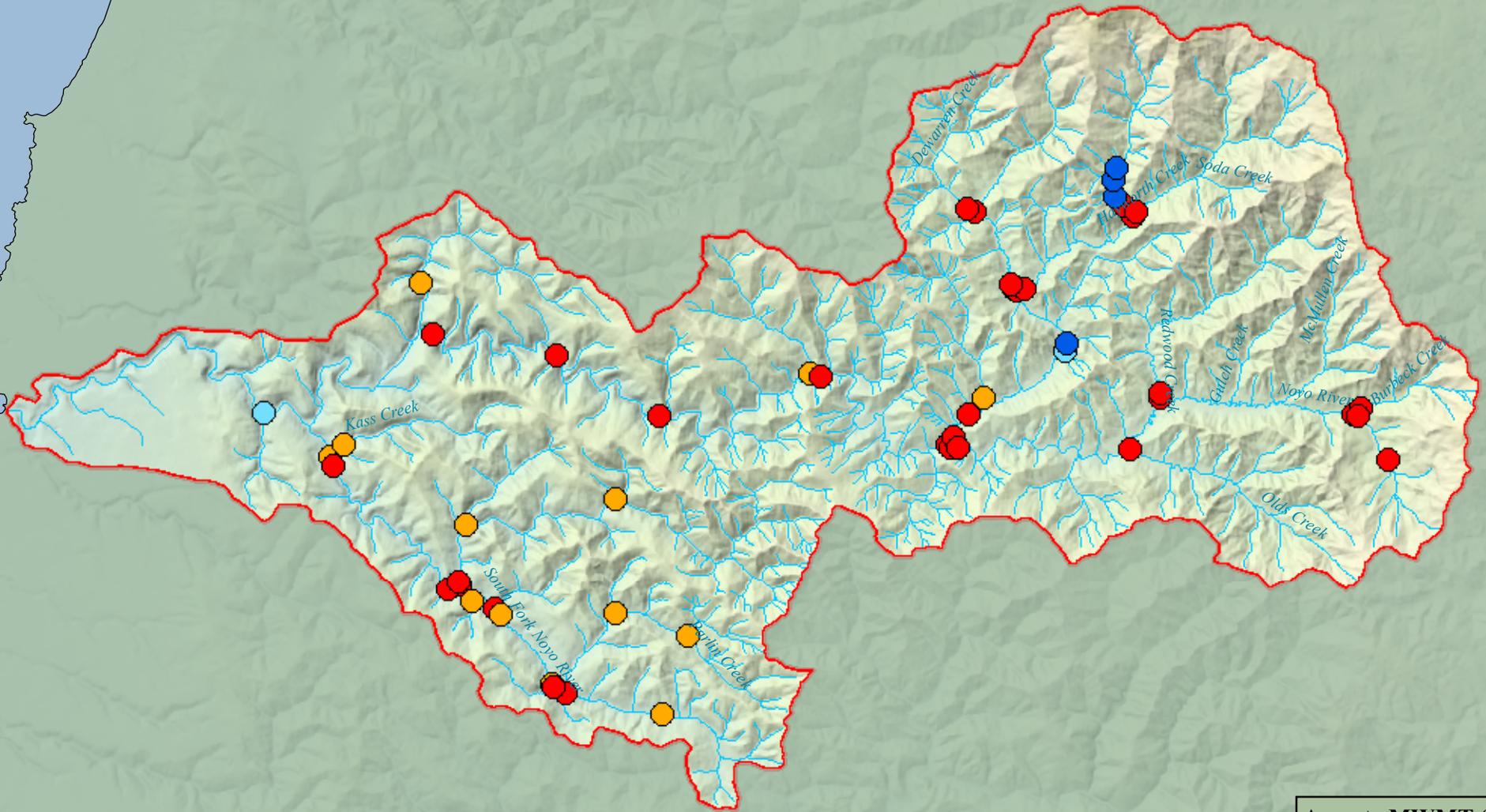


	Gage Station USGS 2006		Non-structural, Unknown
	Hazardous & Solid Waste Site BASINS, USEPA, 2001.		Non-structural, Partial
Barrier Type, Barrier Status CA Fish Passage Assessment, PSMFC, 2008			Non-structural, Total
	Dam, Temporal		Road crossing, Partial
	Dam, Total		Road crossing, Unknown
	Diversion, Unknown		Unknown, Partial
	Fish trap, Unknown		Unknown, Unknown
		Non-structural = Log man, Falls, Vegetation growth	



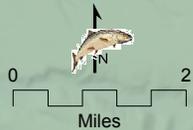
NMFS-SWR-HCD
June 2008

Noyo River Watershed In-stream Temperature



Average MWMT (° C)

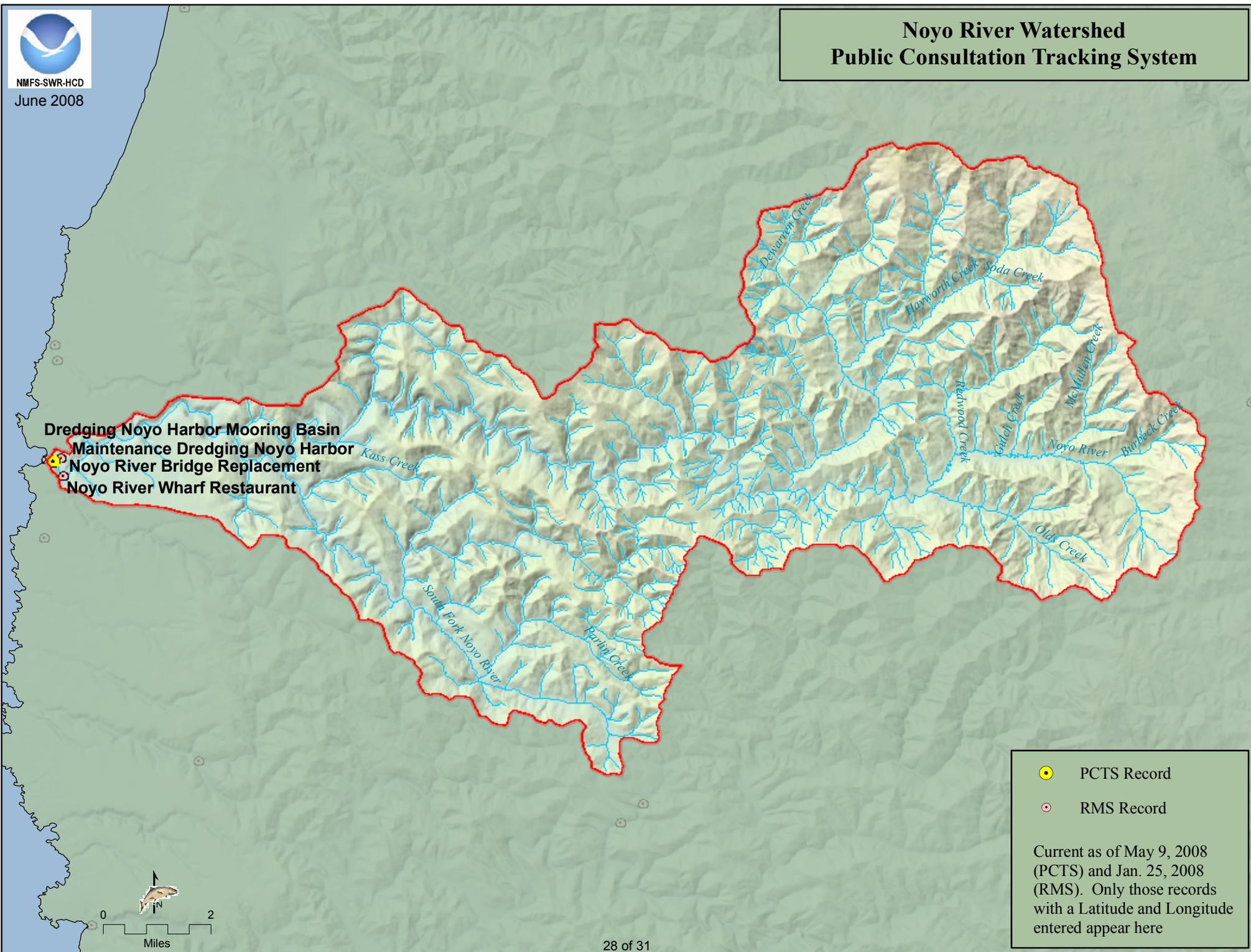
- 0 - 14
- 14 - 15
- 15 - 17
- 17 - 28





NMFS-SWR-HCD
June 2008

Noyo River Watershed Public Consultation Tracking System



References

Watersheds

calwater_ver2_2
vector digital data
California Watersheds (CALWATER 2.2)
California Department of Forestry and Fire
Protection
1:24,000
1999
<http://www.ca.nrcs.usda.gov/features/calwater/>

Distribution

Coho_Distribution
vector digital data
Eric Haney - CDFG - NCNCR-ISB
1:100,000
2006
Draft
<http://www.calfish.org/>

NC_Steelhead_Distribution_06_2005
vector digital data
National Marine Fisheries Service (NOAA
Fisheries)
1:100,000
August 2005
<http://swr.nmfs.noaa.gov/salmon/layers/finalgis.htm>

CC_Chinook_Distribution_06_2005
vector digital data
National Marine Fisheries Service (NOAA
Fisheries)
1:100,000
August 2005
<http://swr.nmfs.noaa.gov/salmon/layers/finalgis.htm>

Critical Habitat

CC_Chinook_ch_06_2005
vector digital data
National Marine Fisheries Service (NOAA
Fisheries)
1:100,000
August 2005
<http://swr.nmfs.noaa.gov/salmon/layers/finalgis.htm>

NC_Steelhead_ch_06_2005
vector digital data
National Marine Fisheries Service (NOAA
Fisheries)
1:100,000

August 2005
<http://swr.nmfs.noaa.gov/salmon/layers/finalgis.htm>

Hydrology

1801 NHD Flowline
vector digital data
National Hydrography Dataset High Resolution
United States Geological Survey
1:24,000
2004

Dams

Dams_2005
vector digital data
Goslin, M.,
Santa Cruz Fishery Science Center
National Marine Fisheries Service
2005
<http://swfsc.noaa.gov/>

Barriers and Diversions

pad_september2008
vector digital data
California Fish Passage Assessment Database
Pacific States Marine Fisheries Commission
September 2006
<http://www.calfish.org/>

Gaging Stations

USGS Streamgages
vector digital data
U.S. Geological Survey
Reston, Va
2006
http://water.usgs.gov/GIS/dsdl/USGS_Streamgages-NHD_Locations_Shape.zip

Total Maximum Daily Load (TMDL)

R1_rivers_2002 303d
vector digital data
State Water Resources Control Board (SWRCB)
California Environmental Protection Agency
2002

Precipitation

California Mean Annual Precipitation Zones, 1900-1960

Vector digital data

California Department of Forestry and Fire Protection 1990

1:100,000

<http://frap.cdf.ca.gov/data/frapgisdata/select.asp>

Roads

roads

vector digital data

Timber Harvest Plans

California Department of Forestry and Fire Protection

1:24,000

2006

TGRR00

vector digital data

Roads

United States Census Bureau

1:100000

2000

<http://www.census.gov/geo/www/tiger/>

Elevation

Dem_1_utm_f

Dem_2_utm_f

10 Meter Digital Elevation Model (DEM)

NOAA Fisheries, Santa Cruz Laboratory

2003

Vegetation

fveg02_2

raster digital data

Multi-source Land Cover Data

California Department of Forestry and Fire Protection

100 meter Grid

2002

<http://frap.cdf.ca.gov/data/frapgisdata/select.asp>

Erodability

Highly Erodible Watersheds

vector digital data

Department of Conservation, Division of Mines and Geology

Minimum Mapping Unit: Approximately 8000

Acres (20,000 Hectares)

1994

<http://gis.ca.gov/catalog/BrowseRecord.epl?id=380>

Land Ownership

GOVTOWNA

vector digital data

California Department of Forestry Forest and Rangeland Resources Assessment Program

Bureau of Land Management Surface Management

1:100,000

September 1999

<http://old.casil.ucdavis.edu/casil/gis.ca.gov/teale/govtowna/>

Timber Harvesting

thp_(year)

Annual Timber Harvest Plans

vector digital data

California Department of Forestry and Fire Protection

Santa Rosa, CA

1983-2001

Developed Area and Population

Census 2000 Block Data (Migrated)

vector digital data

California and the Department of Forestry and Fire Protection, FRAP

2003

1:100,000

<http://frap.cdf.ca.gov/data/frapgisdata/select.asp>

Imagery

naip_1-1_2n_s_ca045_2004_1 (Mendocino)

remote-sensing image

raster digital data

National Agriculture Imagery Program (NAIP)

USDA-FSA Aerial Photography Field Office

Salt Lake City, Utah

2004

<http://datagateway.nrcs.usda.gov/GatewayHome.html>

Historic Suitable Habitat (Coho, Chinook, Steelhead)

Intrinsic Potential Model

vector digital data

NOAA Fisheries

Santa Cruz Laboratory, Santa Cruz, CA

2005

<http://swfsc.noaa.gov/>

Forest Industrial Ownership

nwca_own

vector digital data

United States Fish and Wildlife Service

Arcata, CA

2000

Toxins

Hazardous_&_solid_waste_sites
Better Assessment Science Integrating point and
Nonpoint Sources (BASINS)
vector digital data
United States Environmental Protection Agency
2001
<http://www.epa.gov/waterscience/basins/>

Temperature

MWMT_20080117_selected_watersheds
Vector digital data
Sonoma Ecology Center
2008

Geologic Features

Geopoint
vector digital data
Department of Conservation, Division of Mines and
Geology
Minimum Mapping Unit: Approximately 8000
Acres (20,000 Hectares)
1994

Gorge
vector digital data
Department of Conservation, Division of Mines and
Geology
Minimum Mapping Unit: Approximately 8000
Acres (20,000 Hectares)
1994

Records Management System (RMS)

Public Consultation Tracking System (PCTS)

National Marine Fisheries Service
Oracle Databases
2008