



*Pudding Creek Watershed*

Area	Hydrologic Units	Calwater Subbasins ---	(Planning Watersheds)
11,271 Acres	18010108	1113200501	Little Valley Creek (3643 Acres)
4,561 Hectares	4th Field HUC	1113200508	Pudding Creek (7628 Acres)
18 Square Miles	1113		
<b>Location</b>		4th Field Calwater	
Mendocino County			

Species Potential	Miles of Streams with Species Present
Northern California <b>Steelhead</b> North-Central Coastal Diversity Stratum - Potentially Independent Population	<u>Steelhead</u> 18 NOAA Fisheries, Critical Habitat Redesignation, 2005
Central California Coast <b>Coho</b> Lost Coast-Navarro Point Diversity Stratum - Dependent Population	<u>Coho</u> 11 CDFG, Coho Distribution, May 2007
California Coastal <b>Chinook</b> North-Central Coastal Diversity Stratum - Dependent Independent Population	<u>Chinook</u> 0 NOAA Fisheries, Critical Habitat Redesignation, 2005

Critical Habitat	Miles of Stream
Northern California Steelhead	18 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	0 Miles of Stream

Coho Intrinsic Potential	Miles
Km of Historical Coho IP (21.5 C mask)	29
% of IP (21.5 C Mask) with Current Coho Distribution	44%

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 <sup>A</sup>	Miles	Number of Dams <sup>C</sup>
Naturally Occurring Waterways		2
Intermittent Stream	29	1 - Partial Barrier
Perennial Stream	10	1 - Unknow Barrier Status
Artificial Path	1	

<sup>C</sup>Passage Assessment Database, Pacific States Marine Fisheries Commission, 2005

<sup>A</sup>USGS National Hydrography Dataset, High Resolution, 2004. 1:24,000

USGS Gaging Stations <sup>B</sup>	Number of Barriers <sup>C</sup>
11468540	4
Pudding Creek near Fort Bragg	2 Dams 1 Diversion (Unknown Barrier Status) 1 Fish Passage Facility (Partial Barrier)

<sup>C</sup>Passage Assessment Database, Pacific States Marine Fisheries Commission, 2006



Average Annual **Precipitation**<sup>E</sup>

46"

Average Annual **Precipitation Range**<sup>E</sup>

40 - 55"

<sup>E</sup>California Mean Annual Precipitation Zones, 1900-1960, CA Department of Forestry, 1990

<b>Roads</b> <sup>A</sup>	<b>(US Census Bureau (TIGER))</b>	Miles
Roads in Watershed		
Primary Road / Highway		1
Secondary and connecting road, state highways		0
Local, neighborhood, and rural road, city street, unseparated		55
Vehicular trail, 4WD		0
Driveway or service road		0
<b>Total Miles</b>		

<b>Road Density</b>	<b>(US Census Bureau (TIGER))</b>	
Miles of Roads per SqMi of Watershed		3.1
Miles of Roads per SqMi of 100m Riparian Buffer*		3.7

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

<sup>A</sup>U.S. Census Bureau - Tiger 2000, 2002. 1:24,000

<b>Roads</b> <sup>A1</sup>	<b>(Timber Harvest Plans)</b>	Miles
Roads in Watershed		
Abandoned Seasonal		0
Bridge		
Existing Permanent (rocked)		37
Existing Seasonal		98
Existing Temporary & 4WD		1
Proposed Permanent (rocked)		1
Proposed Seasonal		4
Proposed Temporary & 4WD		0
Reconstructed Seasonal		
Secondary Road (2-3 lanes)		13

<b>Road Density</b>	<b>(Timber Harvest Plans)</b>	
Miles of Roads per SqMi of Watershed		8.6
Miles of Roads per SqMi of 100m Riparian Buffer*		7.9

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

<sup>A1</sup>California Department of Forestry, Timber Harvest Plans for Noyo Watershed, 2006

<b>Slope</b> <sup>D</sup>	Acres	Percent of watershed
Lands of 0-2 percent slope	891	8%
Lands of 2-4 percent slope	534	5%
Lands of 4-10 percent slope	1,044	9%
Lands of 10-15 percent slope	776	7%
Lands of 15-30 percent slope	2,810	25%
Lands of 30-60 percent slope	4,447	39%
Lands of 60-100 percent slope	750	7%
Lands of > 100 percent slope	21	0%

<b>Elevation Range</b>	0 - 1647 ft.	0 - 502 m
------------------------	--------------	-----------

<sup>D</sup>Slope derived from USGS 10 meter Digital Elevation Models (DEM's)

Vegetation <sup>G</sup>	Acres	Percent of watershed
Annual grassland	744	7%
Conifer Forest		
Closed Cone-Pine-Cypress	222	2%
Montane Hardwood-Conifer	32	0%
Redwood	8,305	74%
Hardwood Forest		
Montane Hardwood	432	4%
Montane Riparian	47	0%
Hardwood Woodland		
Eucalyptus	22	0%
Shrub	1,018	9%
Urban	423	4%

<sup>G</sup>Multi-source Land Cover Data (2002 v2), CA Department of Forestry, 2002. 100 meter Grid

Erodability of Watershed <sup>F</sup>	Acres	Percent of watershed
All of watershed is ranked as 3	11,271	100%

<sup>F</sup>Department 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 <sup>H</sup>	Acres	Percent of watershed
Private	12,208	100%

<sup>H</sup>Management Landscape, CA Department of Forestry, 2002

Area Under a Timber Harvest Plan <sup>A</sup> past 10 years	Area Under a Timber Harvest Plan <sup>A</sup> past 20 years
4,216 37% of watershed	6,899 61% of watershed

<sup>A</sup>California Department of Forestry, Timber Harvest Plans for Noyo Watershed, 2006

Population <sup>I</sup>	Housing <sup>I</sup>
Total Population within the watershed -- 2,307 People	Total Housing Units within the watershed -- 894 Houses
	Housing Density
	0 to Less than 1 Housing Unit / 160 Acres 51%
	1 Unit / 160 Acres to 1 Unit / 20 Acres 17%
	1 Unit / 20 Acres to 1 Unit / 5 Acres 26%
	1 Unit / 5 Acres to 2 Units / Acre 6%
	2 Units / Acres to Greater than or Equal to 5 Units / Acre 1%

<sup>I</sup>Census 2000 Block Data (Migrated), CA Department of Forestry, 2003



# Pudding Creek

## 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		2					766		1317	15		
	S												
	P												
	M			5									
Seedling	D			10			2						
	<b>Total</b>		2	15	0	2	766	1317	15				2117
	S												
	P												
Sapling	M												
	D												
	<b>Total</b>												0
	S			17		49							
Pole	P			59		72							
	M			682		79							
	D			534		40							
	<b>Total</b>			1292		240							1532
Small Tree	S			20		49							
	P			7		25							
	M			526		32							
	D			1233		64							
Medium/Large Tree	<b>Total</b>			1786		170	0						1956
	S			7		10							
	P			7		10							
	M			299		30	20						
Multi Layered	D			1451		25		1030					
	<b>Total</b>			1764		75	20	1030					2889
	S			62									
	P			47									
Multi Layered	M			502		5							
	D			2975									
	<b>Total</b>			3586		0	5						3591
	D			124									
Multi Layered	<b>Total</b>			124									124
	<b>Grand Total by Species Type</b>			2	8567	0	485	27	766	1030	1317	15	12209

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%

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%					6%		11%	0%		
	S												
	P												
	M			0%									
Seedling	D			0%		0%							
	<b>Total</b>			0%	0%	0%		6%	11%	0%			17%
	S												
	P												
Sapling	M												
	D												
	<b>Total</b>												0%
	S			0%		0%							
Pole	P			0%		1%							
	M			6%		1%							
	D			4%		0%							
	<b>Total</b>			11%		2%							13%
Small Tree	S			0%		0%							
	P			0%		0%							
	M			2%		0%	0%						
	D			12%		0%	0%		8%				
Medium/Large Tree	<b>Total</b>			14%		1%		8%					23%
	S			1%									
	P			0%									
	M			4%		0%							
Multi Layered	D			24%									
	<b>Total</b>			29%		0%							29%
	S												
	P												
Multi Layered	D			1%									
	<b>Total</b>			1%									1%
<b>Grand Total by Species Type</b>			0%	70%		4%	0%	6%	8%	11%	0%		100%

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%

# Pudding Creek

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							175.0	37.0				
	S												
	P												
	M			5.0									
Seedling	D			2.0									
	Total			7.0				175.0	37.0				219
	S												
	P												
Sapling	M												
	D												
	Total												0
	S			2.0	22.0								
Pole	P			5.0	12.0								
	M			121.0	15.0								
	D			114.0	5.0								
	Total			242.0	54.0								296
Small Tree	S				25.0								
	P				17.0								
	M			119.0	2.0	12.0							
	D			408.0	22.0								
Medium/Large Tree	Total			527.0	66.0	12.0							605
	S			2.0	7.0								
	P												
	M			72.0	17.0	7.0							
Multi Layered	D			430.0	5.0			299.0					
	Total			504.0	29.0	7.0		299.0					839
	S			25.0									
	P			5.0									
Grand Total by Species Type	M			121.0									
	D			922.0									
	Total			1073.0									1073
	S												
Multi Layered	P												
	M												
	D			62.0									
	Total			62.0									62
<b>Grand Total by Species Type</b>		0	0	2415	0	149	19	175	299	37	0	0	3094

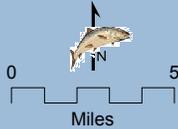
SIZE	Description	Diameter at Breast Height (DBH)
Not Determined		N/A
Seedling		Less Than 1 inch
Sapling		1 to 6 inches
Pole		6 to 11 inches
Small Tree		11 to 24 inches
Medium/Large Tree		Greater Than 24 inches
Multi Layered		Size 5 Over Size 4 Or 3; Total Tree Crown Closure Greater Than 60%

## 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							6%	1%				
	S												
	P												
	M			0%									
Seedling	D			0%									
	Total			0%				6%	1%				7%
	S												
	P												
Sapling	M												
	D												
	Total												0%
	S			0%	1%								
Pole	P			0%	0%								
	M			4%	0%	0%							
	D			4%	0%								
	Total			8%	2%								10%
Small Tree	S				1%								
	P				1%								
	M			4%	0%	0%							
	D			13%	1%								
Medium/Large Tree	Total			17%	2%	0%							20%
	S			0%	0%								
	P			0%	0%								
	M			2%	1%	0%							
Multi Layered	D			14%	0%			10%					
	Total			16%	2%	0%		10%					27%
	S			1%									
	P			0%									
Grand Total by Species Type	M			4%	0%								
	D			30%									
	Total			35%									35%
	S												
Multi Layered	P												
	M												
	D			2%									
	Total			2%									2%
<b>Grand Total by Species Type</b>		0%	0%	78%	0%	5%	1%	6%	10%	1%	0%	0%	100%

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%

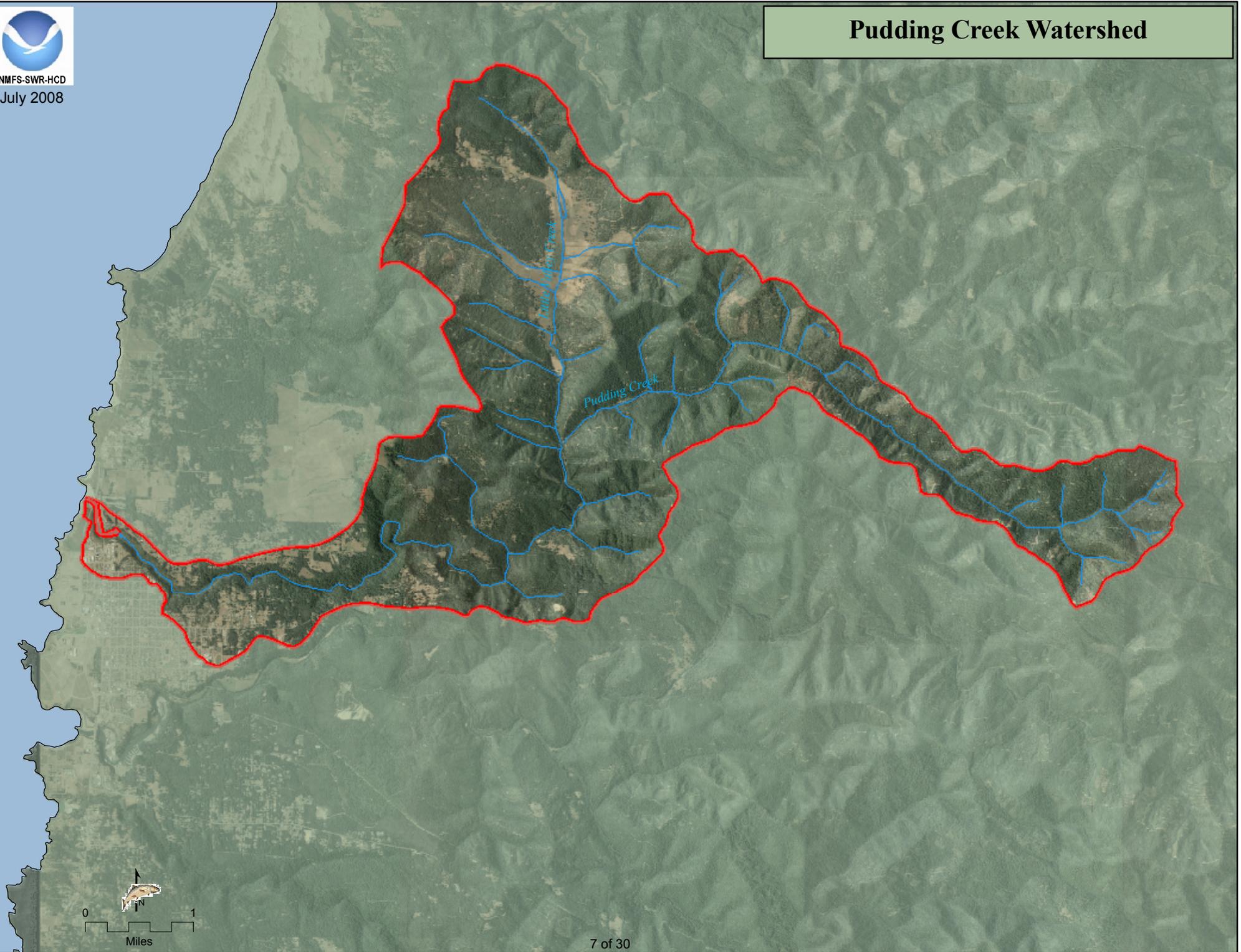
# Puttiding Creek Watershed





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed





NMFS-SWR-HCD  
July 2008

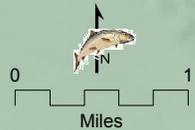
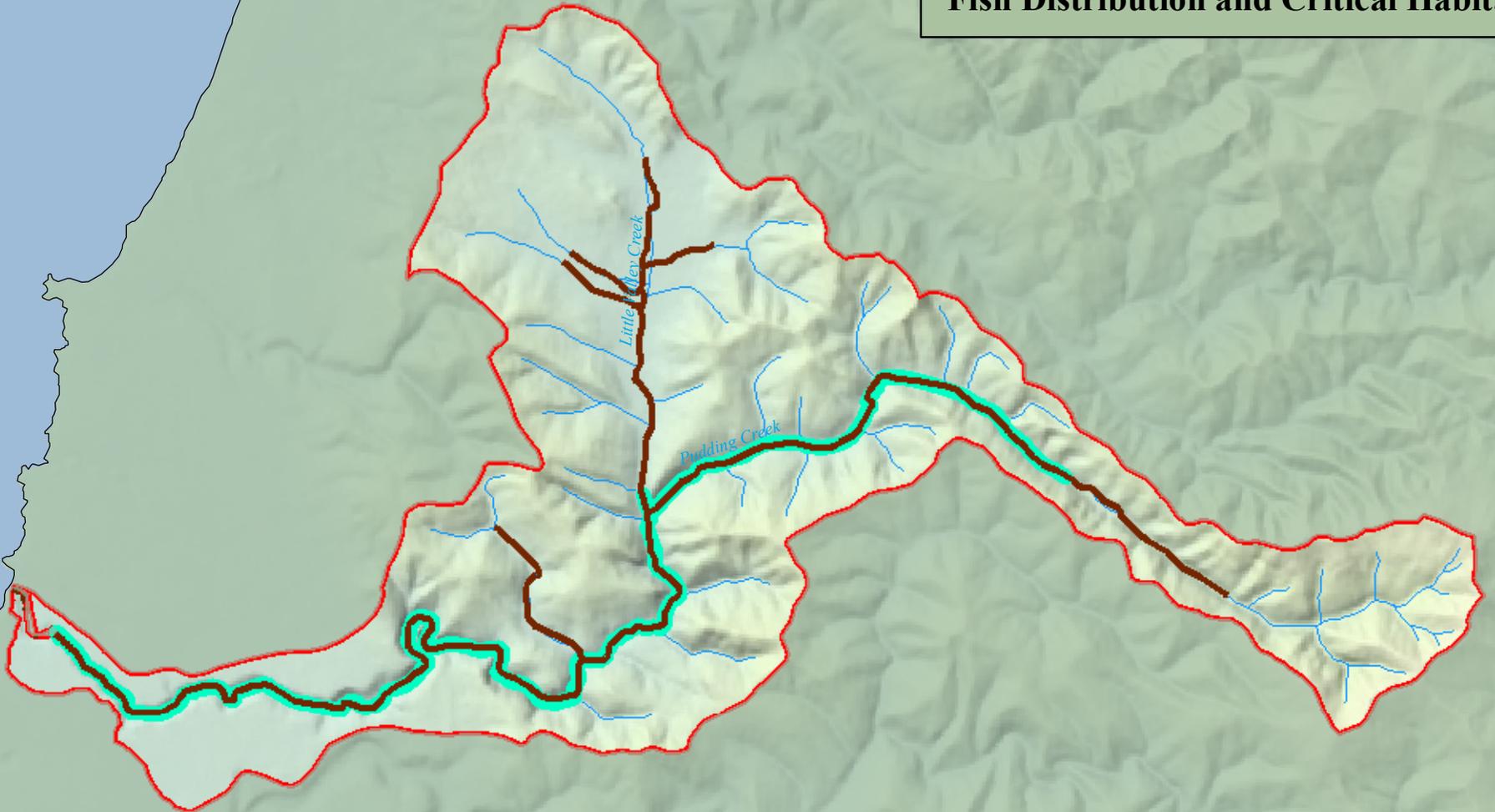
## Pudding Creek Watershed CalWater Planning Watersheds





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Fish Distribution and Critical Habitat

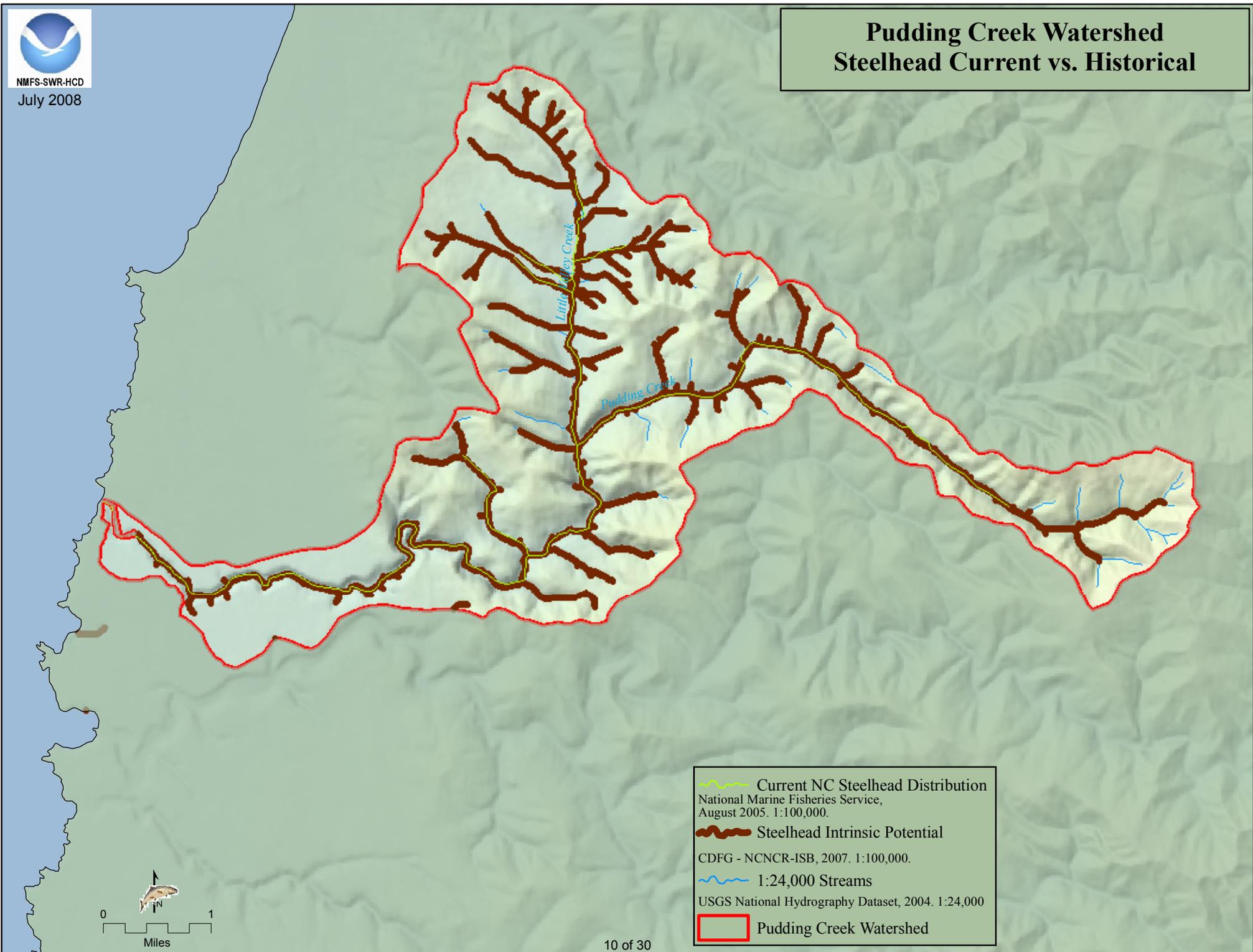


-  NC Steelhead Distribution and Critical Habitat  
National Marine Fisheries Service, August 2005. 1:100,000.
-  Coho Distribution  
CDFG - NCNCR-ISB, 2007. 1:100,000.
-  1:24,000 Streams  
USGS National Hydrography Dataset, 2004. 1:24,000
-  Pudding Creek Watershed



NMFS-SWR-HCD  
July 2008

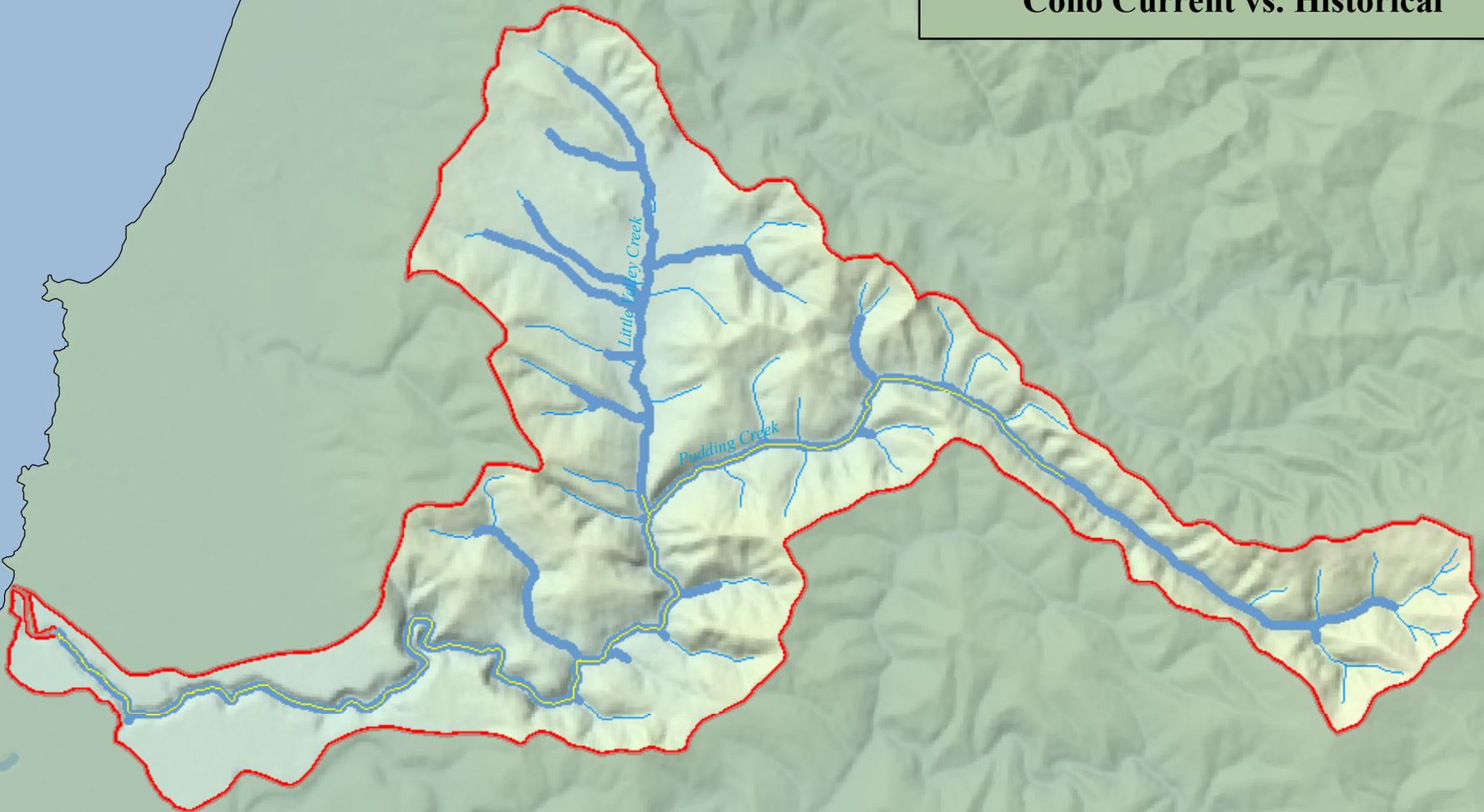
## Pudding Creek Watershed Steelhead Current vs. Historical



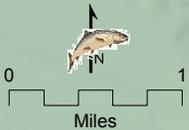


NMFS-SWR-HCD  
July 2008

## Pudding Creek Watershed Coho Current vs. Historical



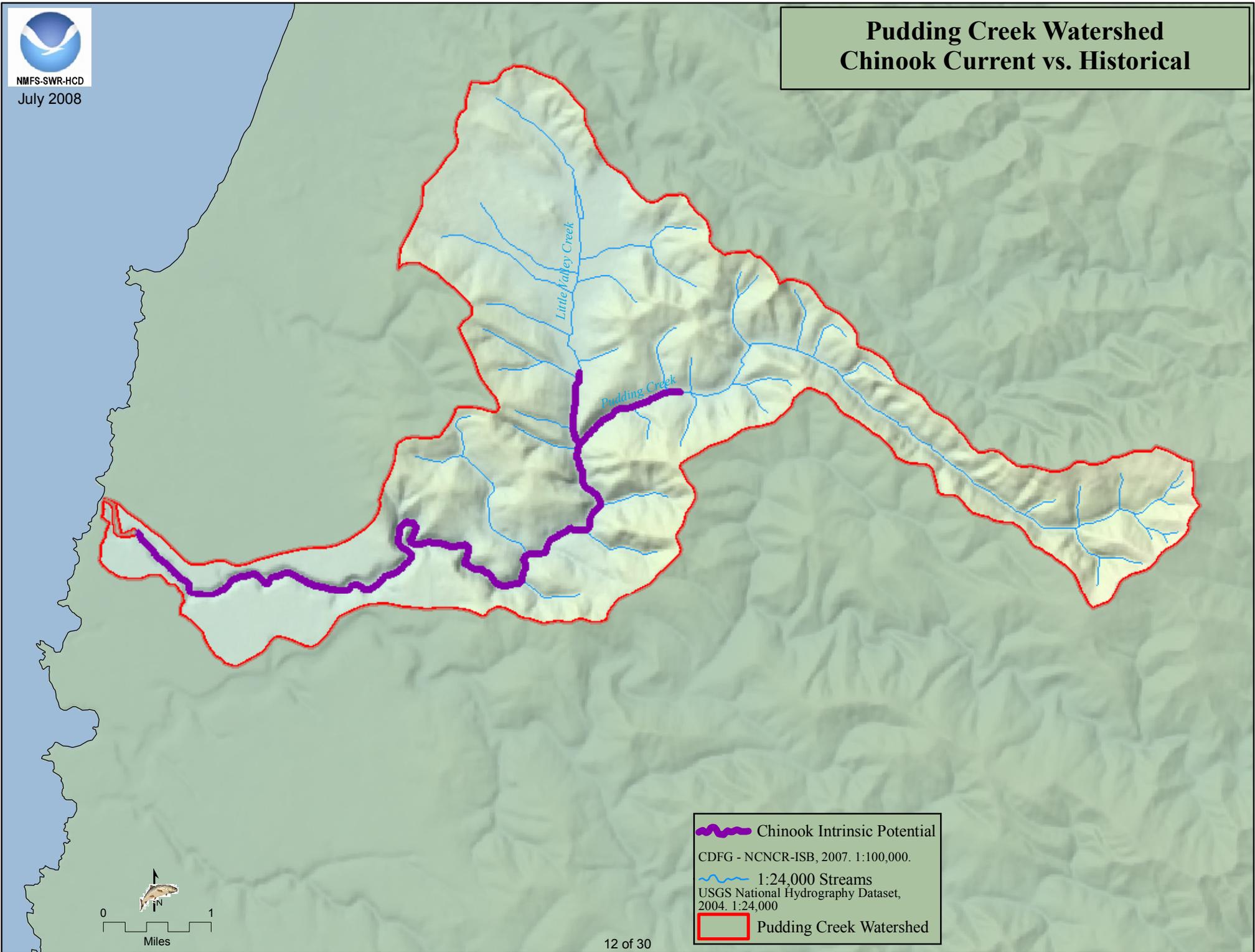
-  Current Coho Distribution  
National Marine Fisheries Service,  
August 2005. 1:100,000.
-  Coho Intrinsic Potential  
CDFG - NCNCR-ISB, 2007. 1:100,000.
-  1:24,000 Streams  
USGS National Hydrography Dataset,  
2004. 1:24,000
-  Pudding Creek Watershed





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Chinook Current vs. Historical

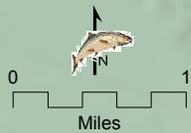


- Chinook Intrinsic Potential
- CDFG - NCNCR-ISB, 2007. 1:100,000.
- 1:24,000 Streams
- USGS National Hydrography Dataset, 2004. 1:24,000
- Pudding Creek Watershed



NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Elevation



## Pudding Creek Elevation (Meters)

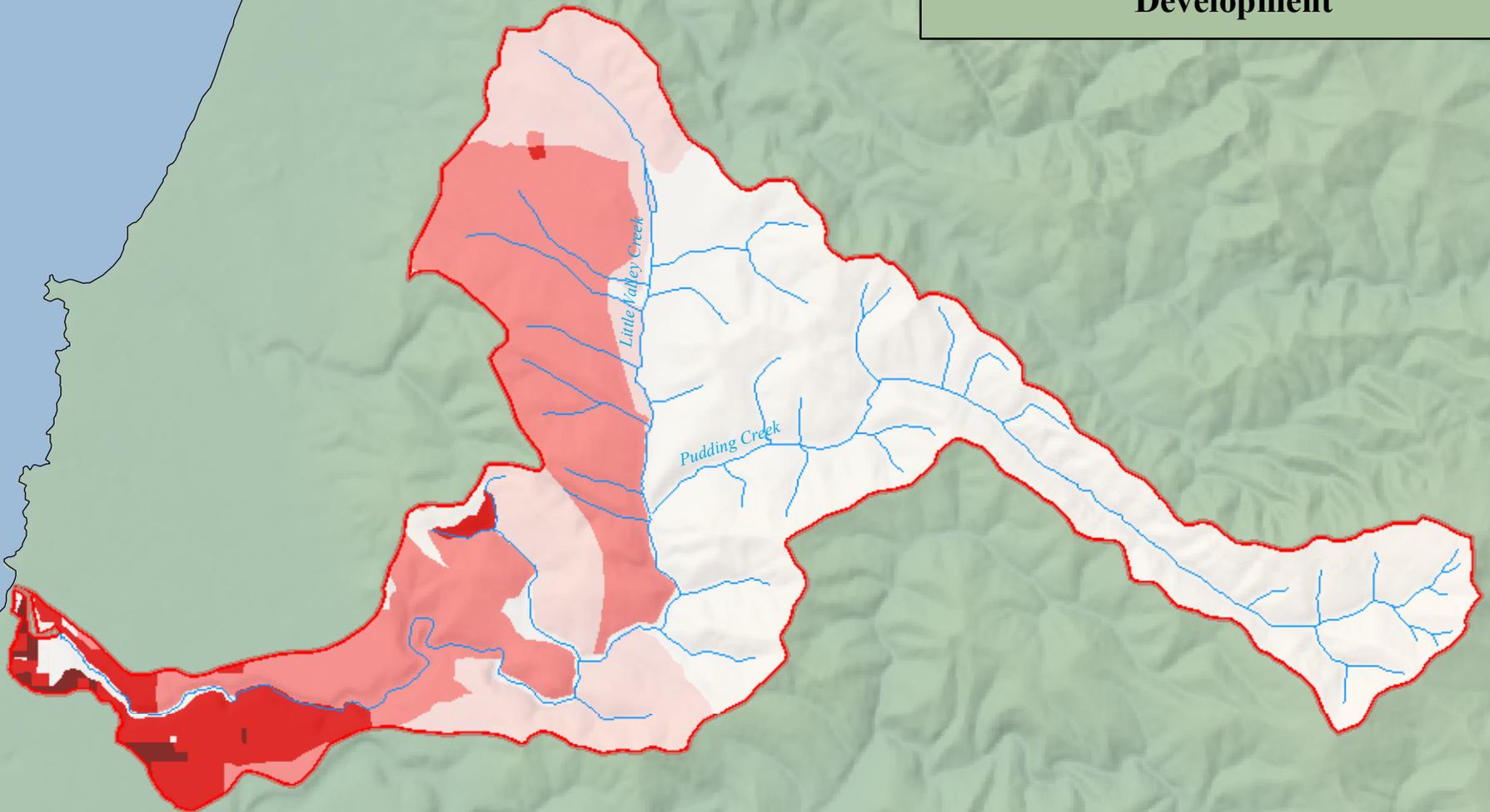


SWR-SCFSC  
10 Meter Digital  
Elevation  
Model (DEM)



NMFS-SWR-HCD  
July 2008

## Pudding Creek Watershed Development



### Housing Density

	0 to Less than 1 Housing Unit / 160 Acres (51%)
	1 Unit / 160 Acres to 1 Unit / 20 Acres (17%)
	1 Unit / 20 Acres to 1 Unit / 5 Acres (26%)
	1 Unit / 5 Acres to 2 Units / Acre (6%)
	2 Units / Acre to Greater than or Equal to 5 Units / Acre (1%)

Population within the Watershed = 2,307 People  
Houses within the Watershed = 894

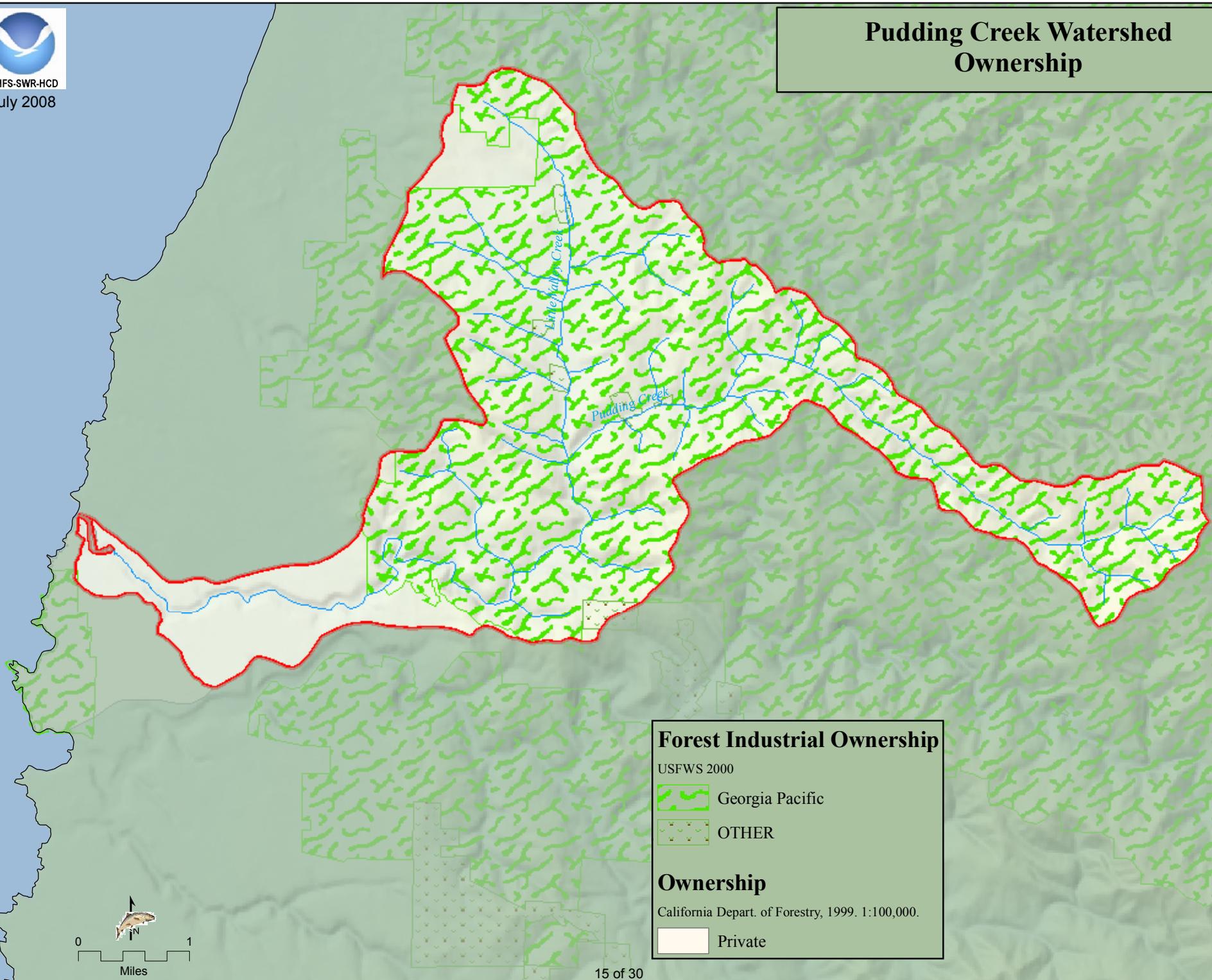
California Department of Forestry, 2003. 1:100,000.





NMFS-SWR-HCD  
July 2008

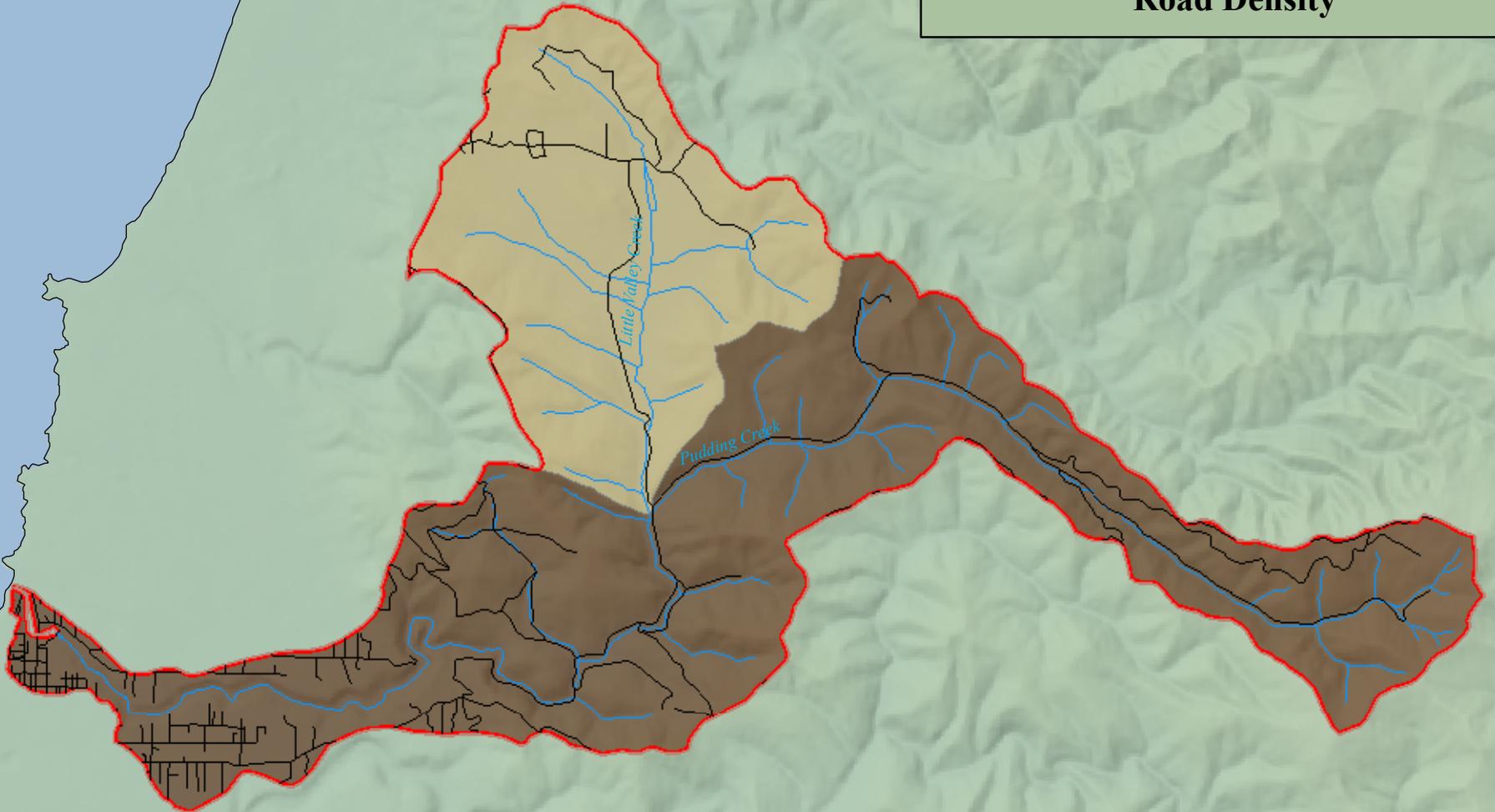
# Pudding Creek Watershed Ownership





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Road Density

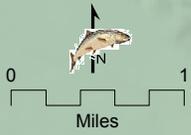


 Road  
U.S. Census Bureau - Tiger 2000, 2002. 1:24,000

**Road Density (Miles of Road per Square Mile of Watershed)**

	1.6
	4.0

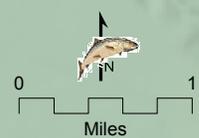
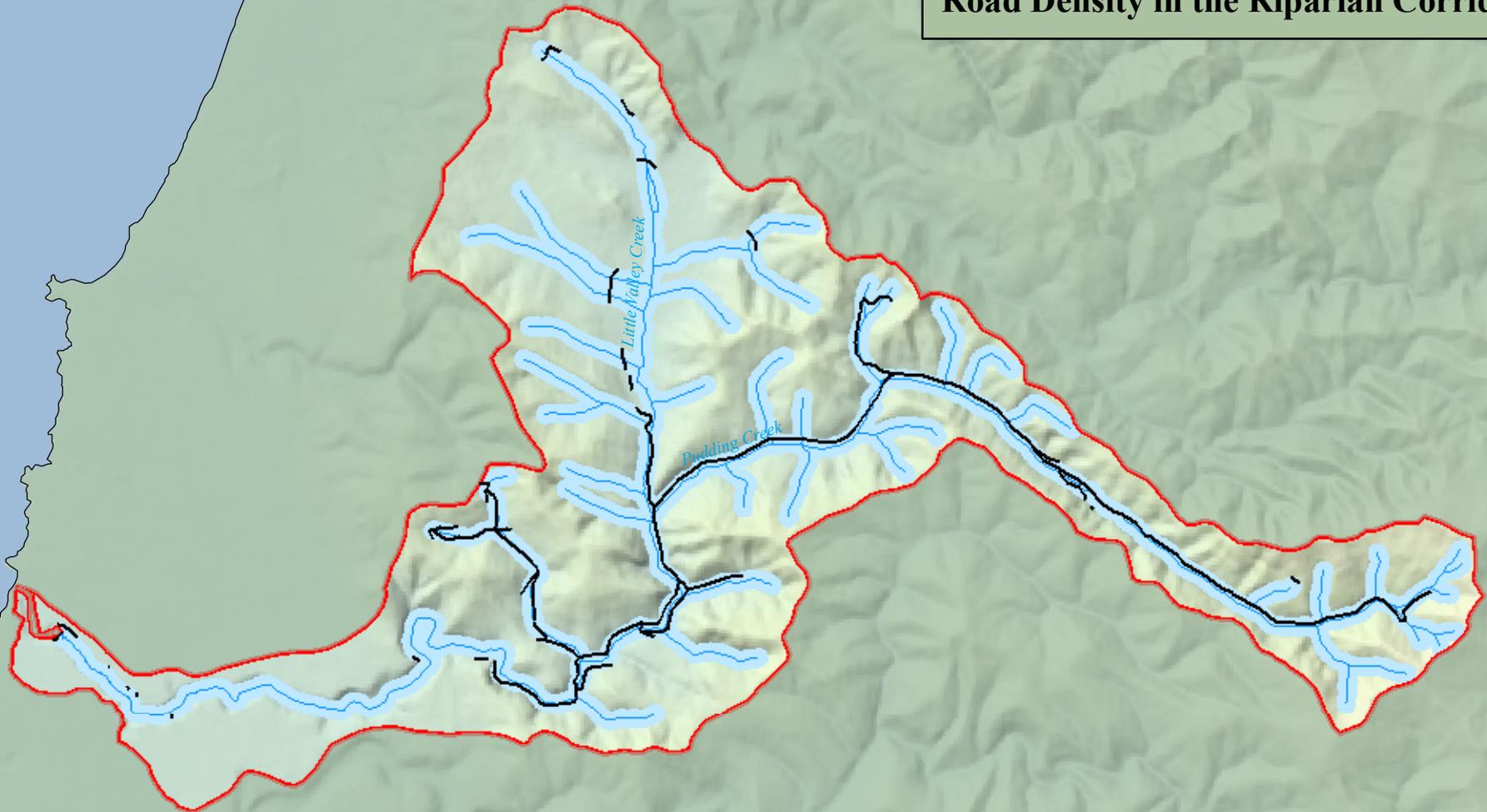
Overall Watershed  
Density = 3.1 Miles / SqMi





NMFS-SWR-HCD  
July 2008

# Pudding Creek 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

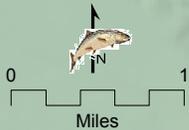
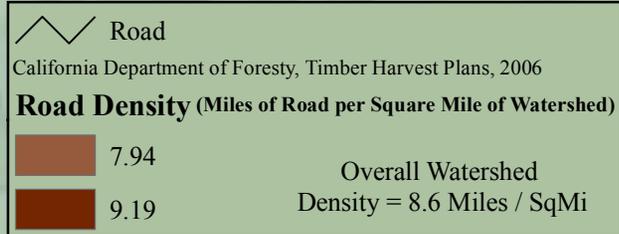
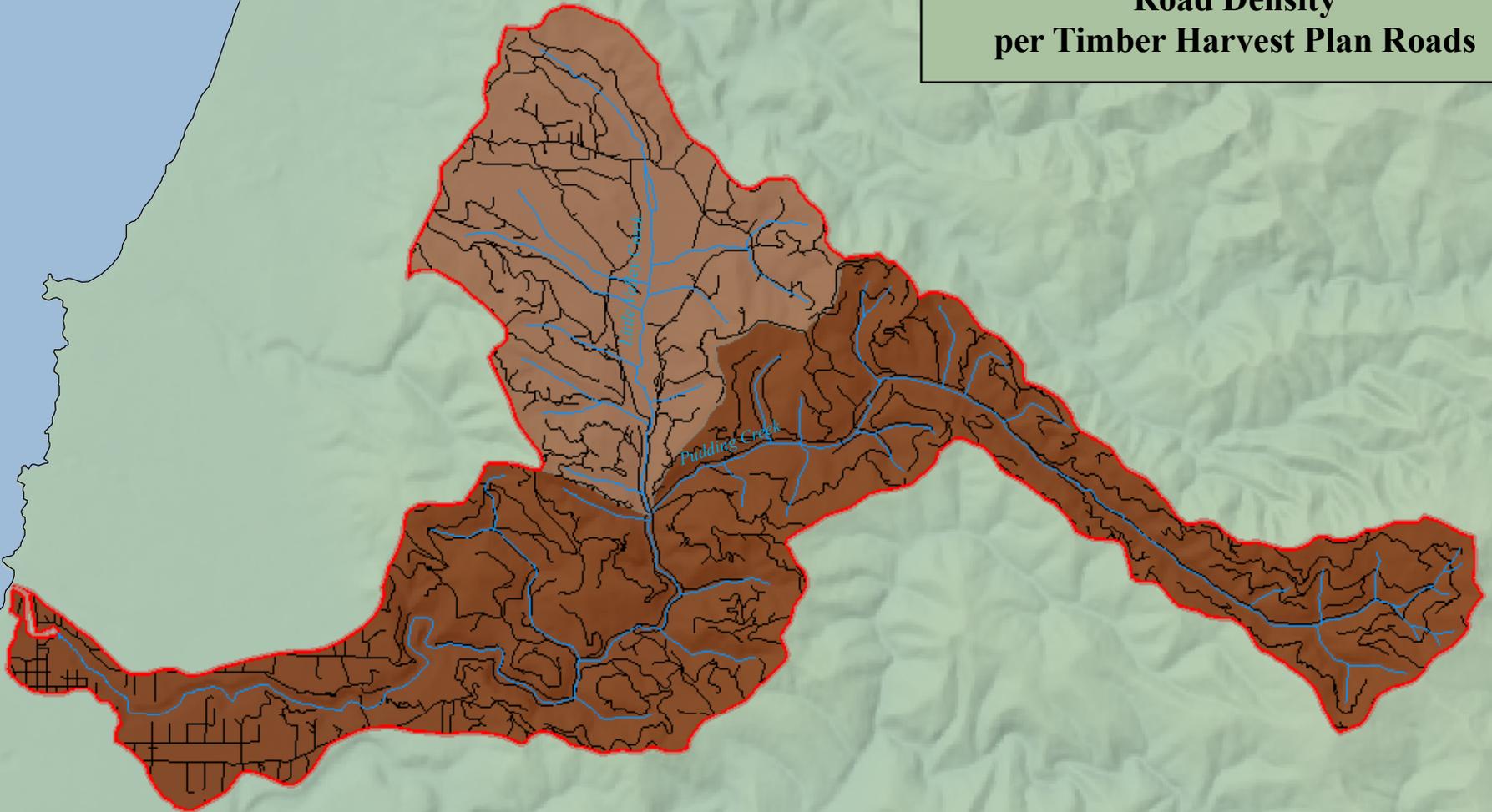
 200 Meter Riparian Buffer (100 m on either side of stream centerline)

Overall Riparian Corridor Density = 3.7 Miles / SqMi of Corridor



NMFS-SWR-HCD  
July 2008

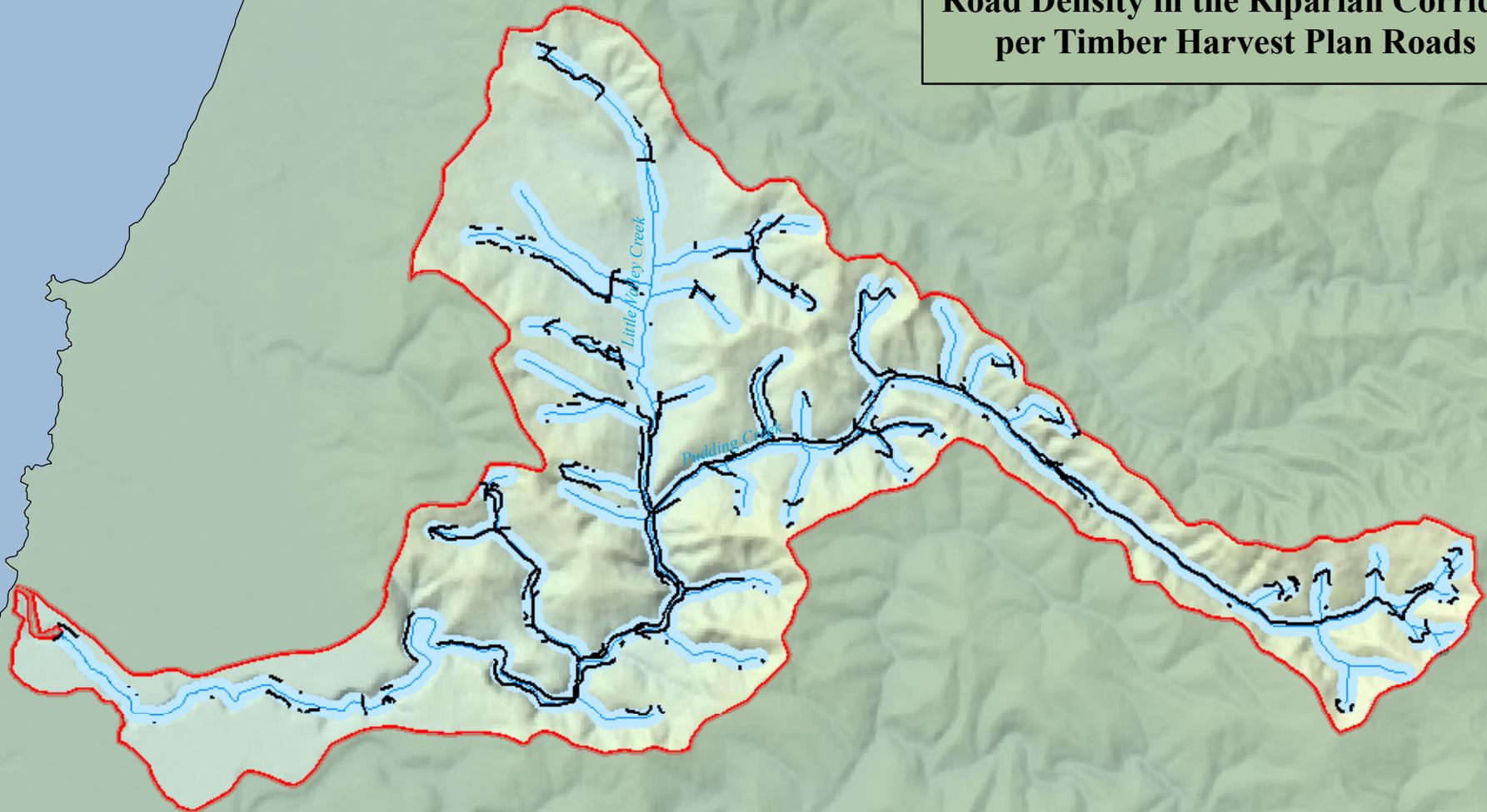
# Pudding Creek Watershed Road Density per Timber Harvest Plan Roads





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Road Density in the Riparian Corridor per Timber Harvest Plan Roads

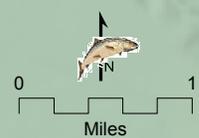


 Road Segments within the 200 meter Riparian Corridor  
California Department of Forestry, Timber Harvest Plans, 2006

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

 200 Meter Riparian Buffer (100 m on either side of stream centerline)

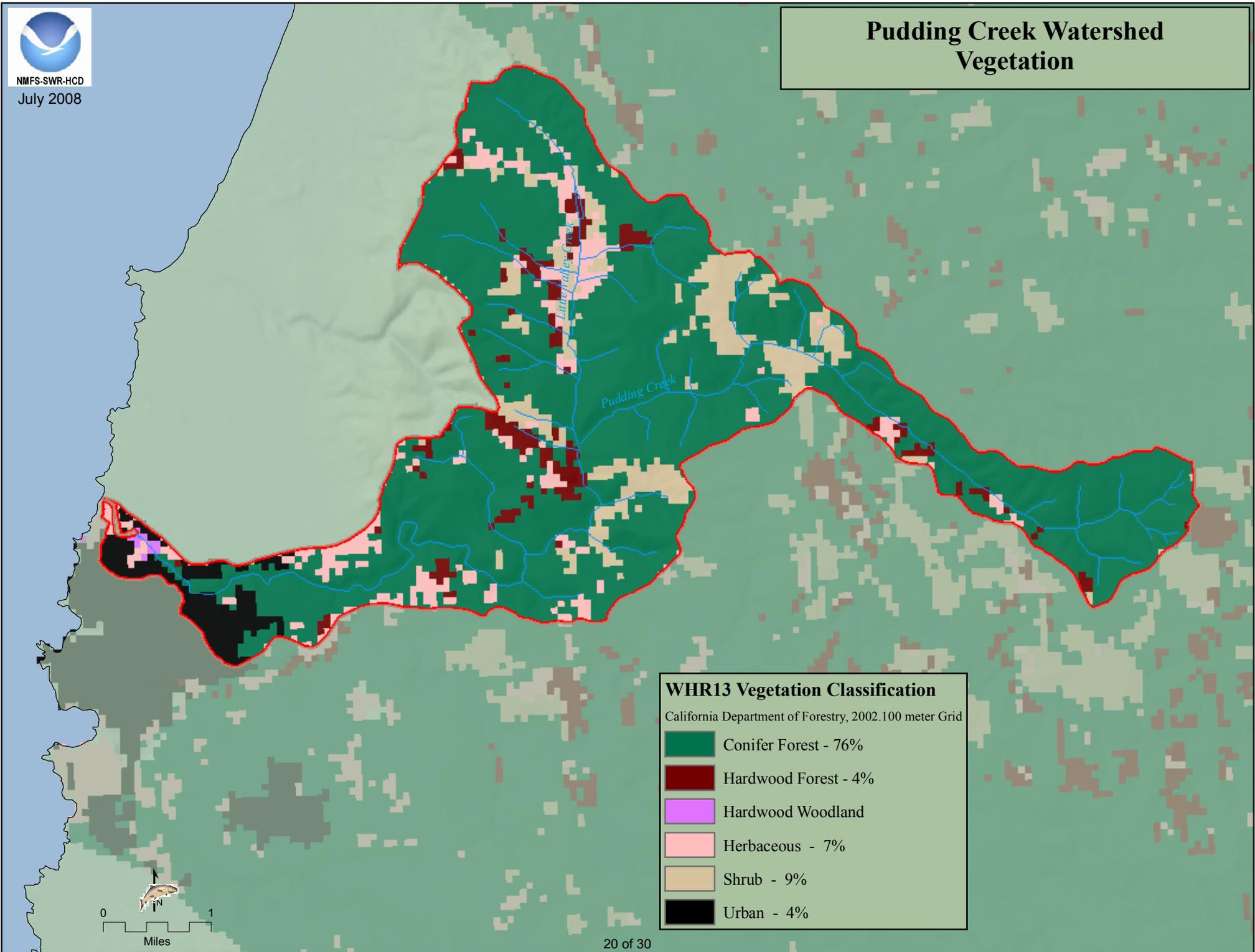
Overall Riparian Corridor Density = 7.9 Miles / SqMi of Corridor





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Vegetation



## WHR13 Vegetation Classification

California Department of Forestry, 2002.100 meter Grid

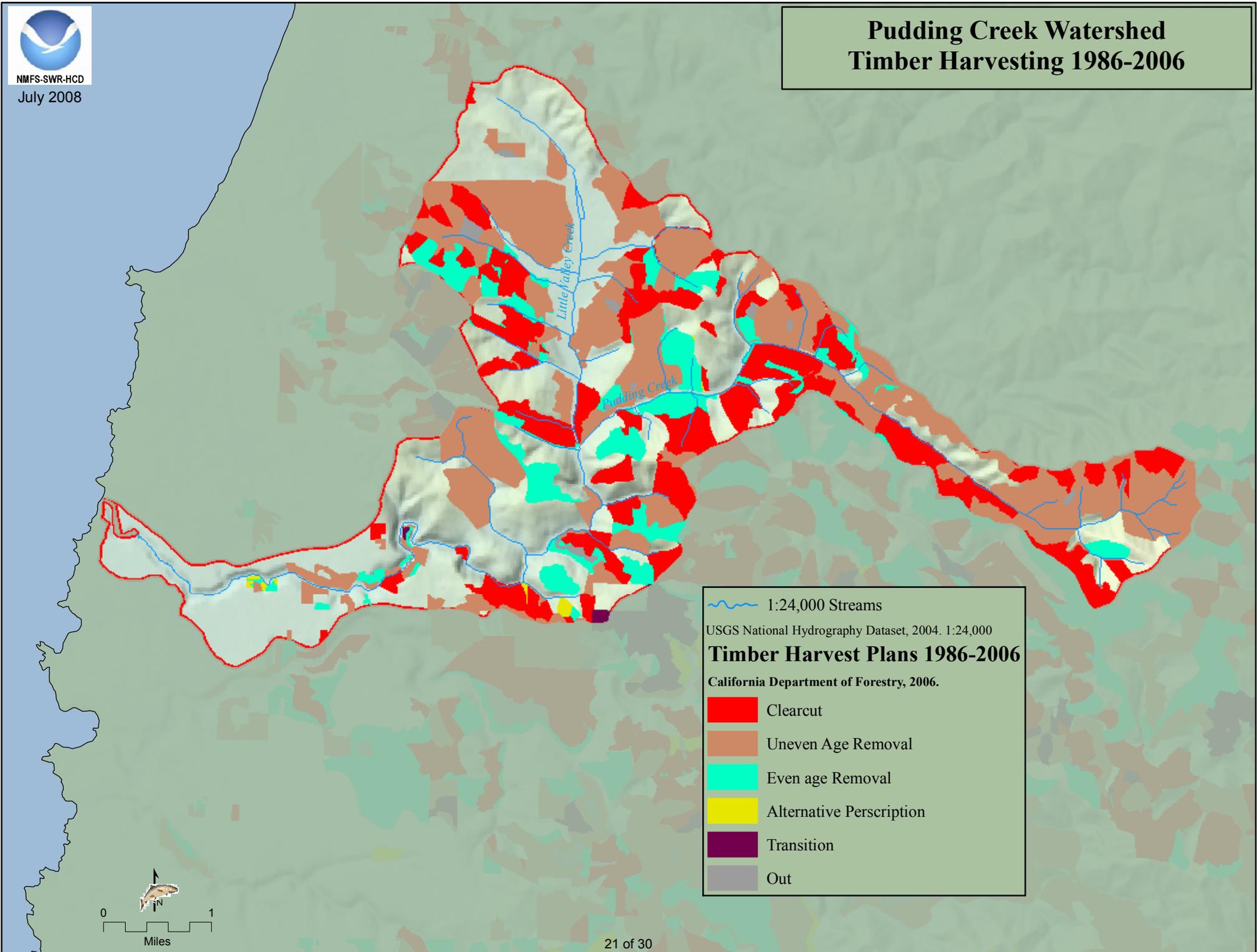
-  Conifer Forest - 76%
-  Hardwood Forest - 4%
-  Hardwood Woodland
-  Herbaceous - 7%
-  Shrub - 9%
-  Urban - 4%





NMFS-SWR-HCD  
July 2008

# Pudding Creek 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.

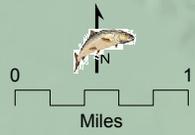
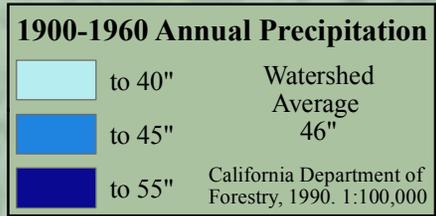
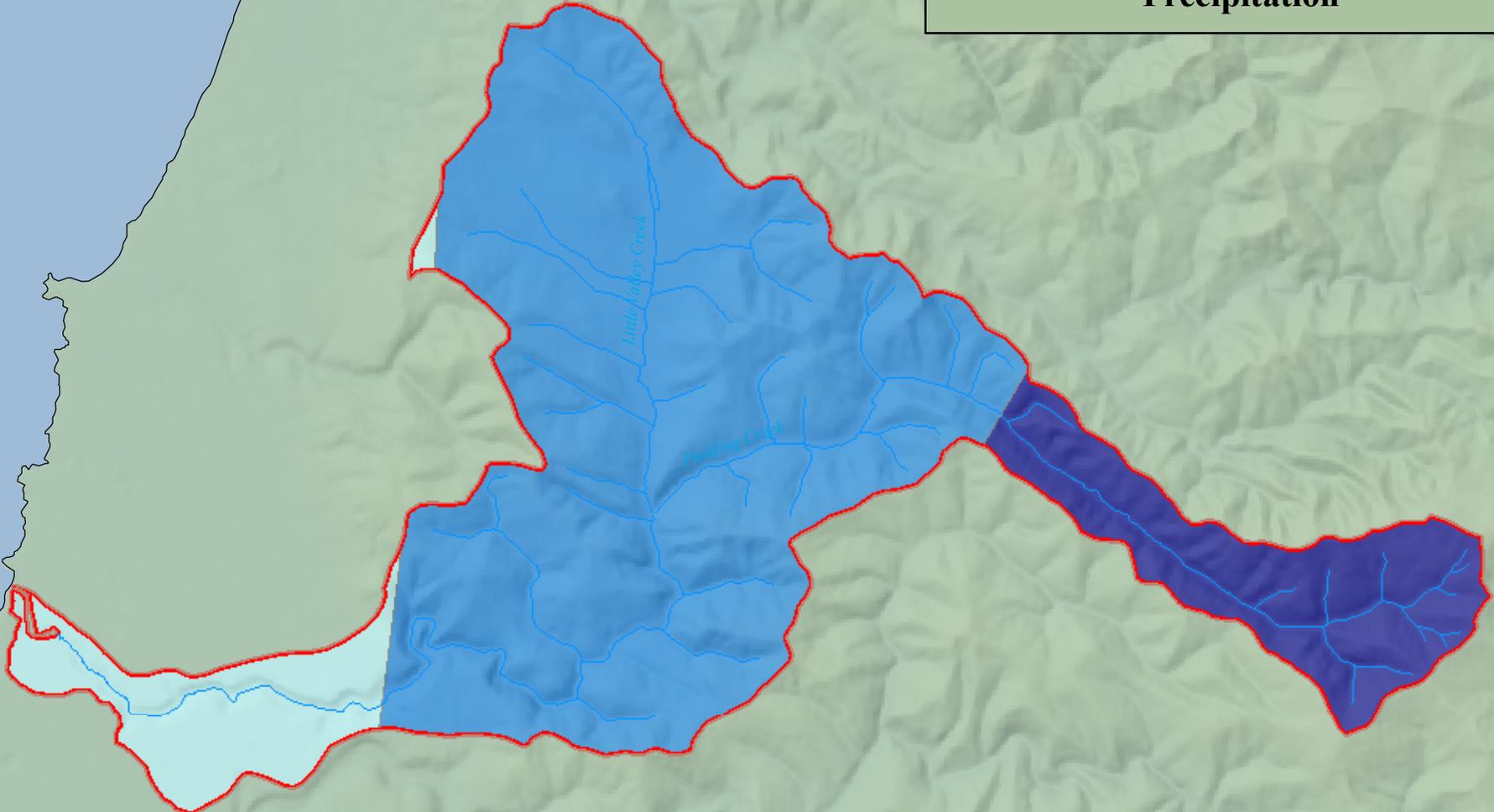
- Clearcut
- Uneven Age Removal
- Even age Removal
- Alternative Prescription
- Transition
- Out





NMFS-SWR-HCD  
July 2008

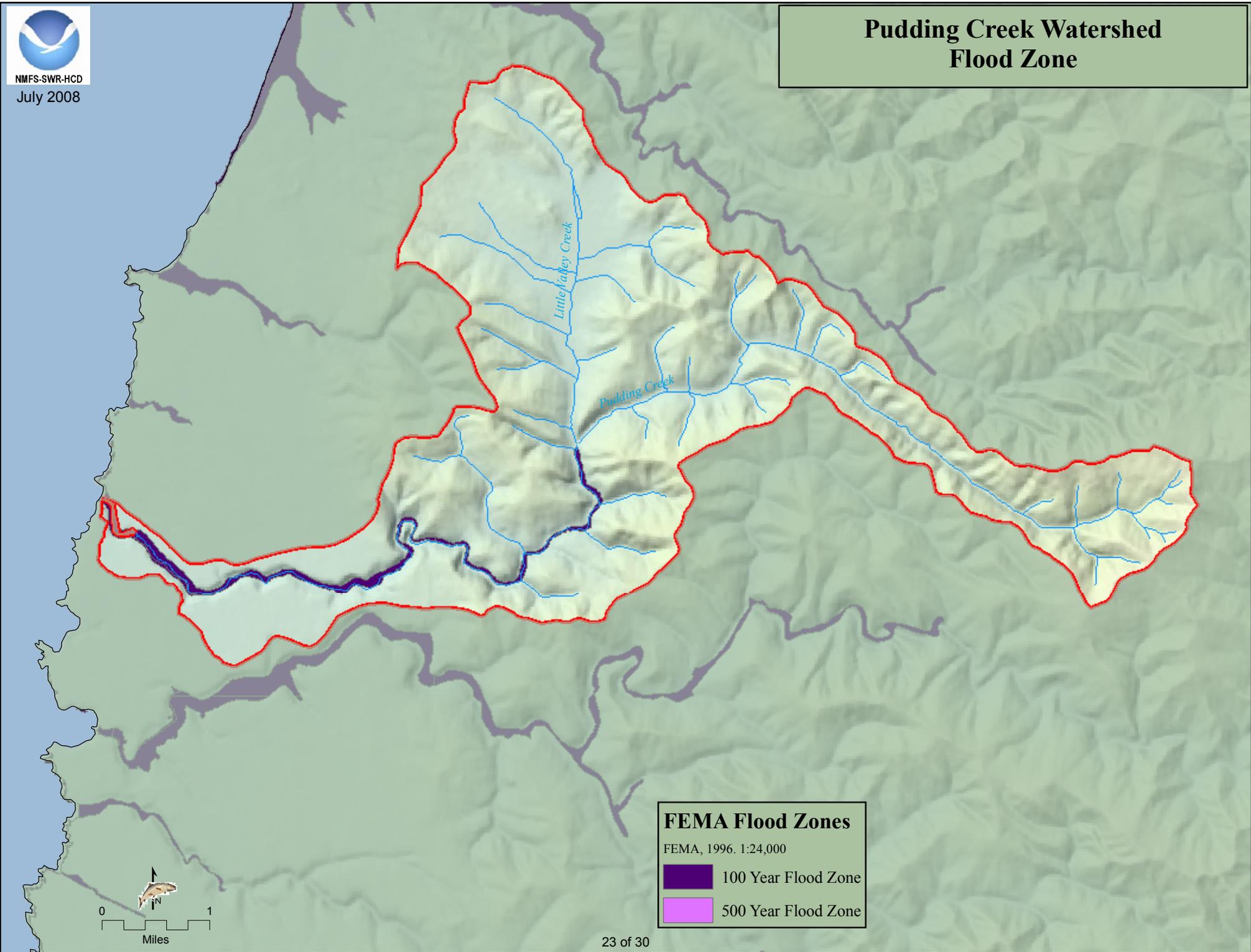
# Pudding Creek Watershed Precipitation





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Flood Zone



**FEMA Flood Zones**  
FEMA, 1996. 1:24,000

-  100 Year Flood Zone
-  500 Year Flood Zone

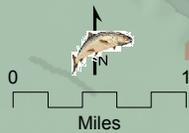


NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Geologic Features

**Geologic Feature**  
CA Geologic Survey

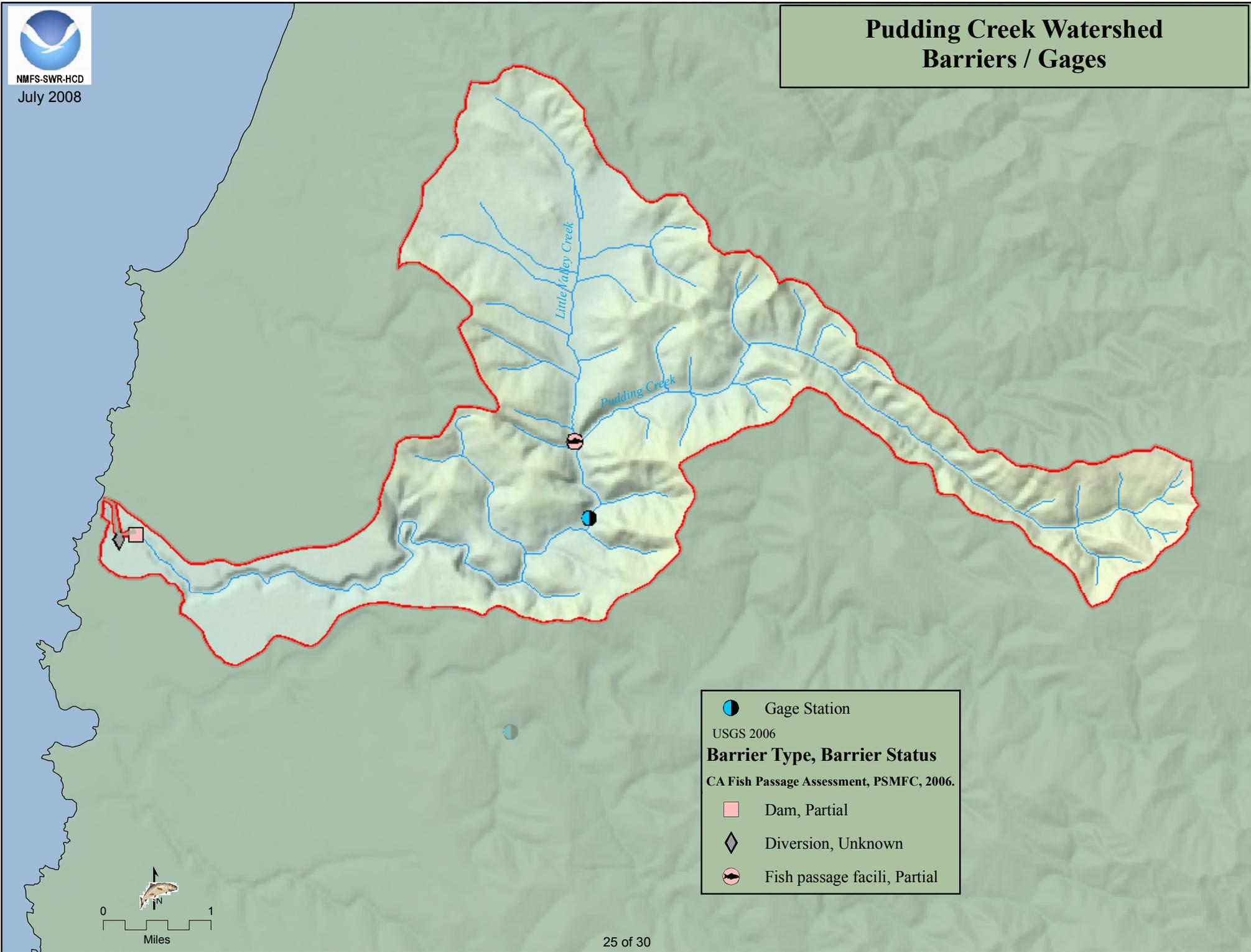
-  Dipbed
-  Marsh
-  Mine
-  Quarry
-  Slide
-  Spring
-  Spring-mineral
-  Gorge
-  Torrent track
-  Gorge





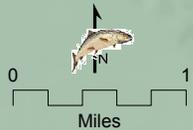
NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Barriers / Gages



● Gage Station  
USGS 2006  
**Barrier Type, Barrier Status**  
CA Fish Passage Assessment, PSMFC, 2006.

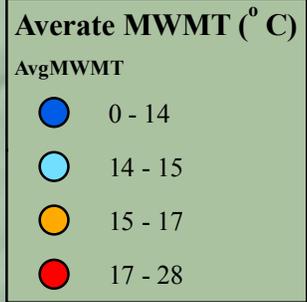
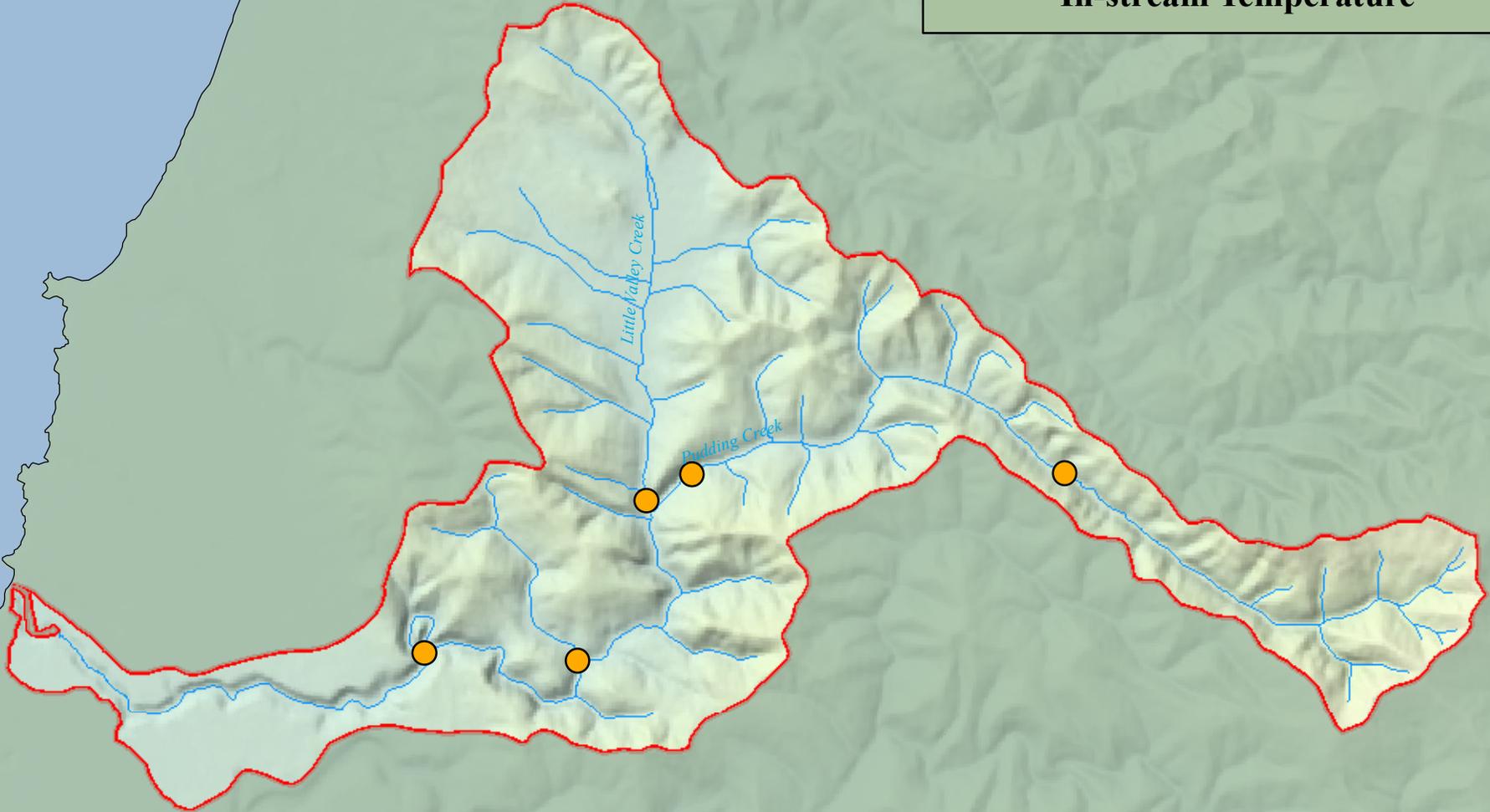
■	Dam, Partial
◇	Diversion, Unknown
●	Fish passage facility, Partial



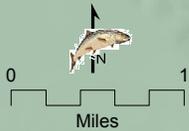


NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed In-stream Temperature



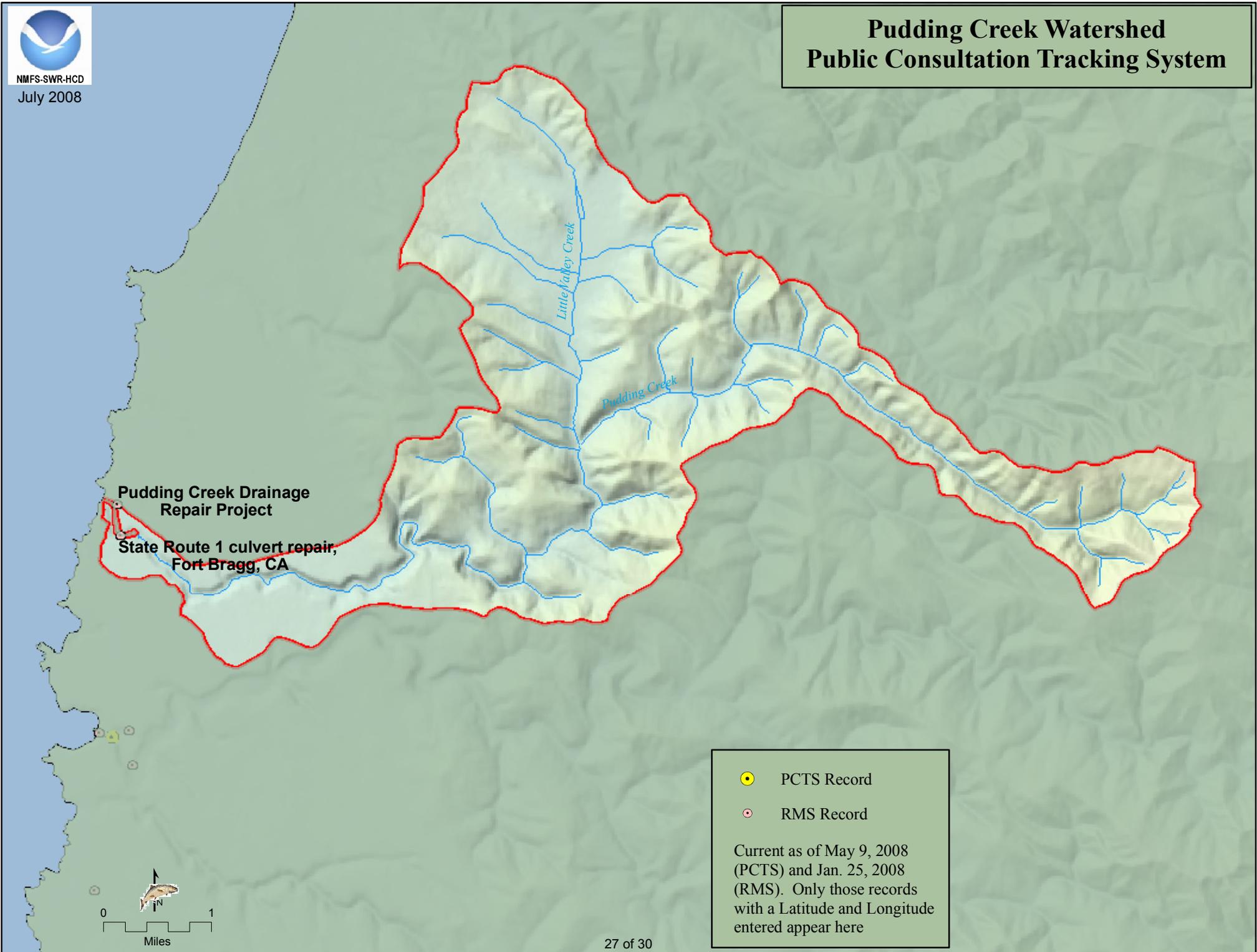
Sonoma Ecology Center, 2008.





NMFS-SWR-HCD  
July 2008

# Pudding Creek Watershed Public Consultation Tracking System

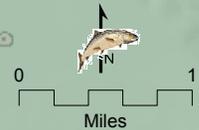


**Pudding Creek Drainage  
Repair Project**

**State Route 1 culvert repair,  
Fort Bragg, CA**

-  PCTS Record
-  RMS Record

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



## 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\_september2006  
vector digital data  
California Fish Passage Assessment Database  
Pacific States Marine Fisheries Commission  
September 2006  
<http://www.calfish.org/>

### **Gaging Stations**

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

### **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

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

### **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