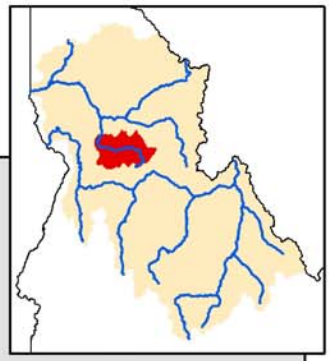
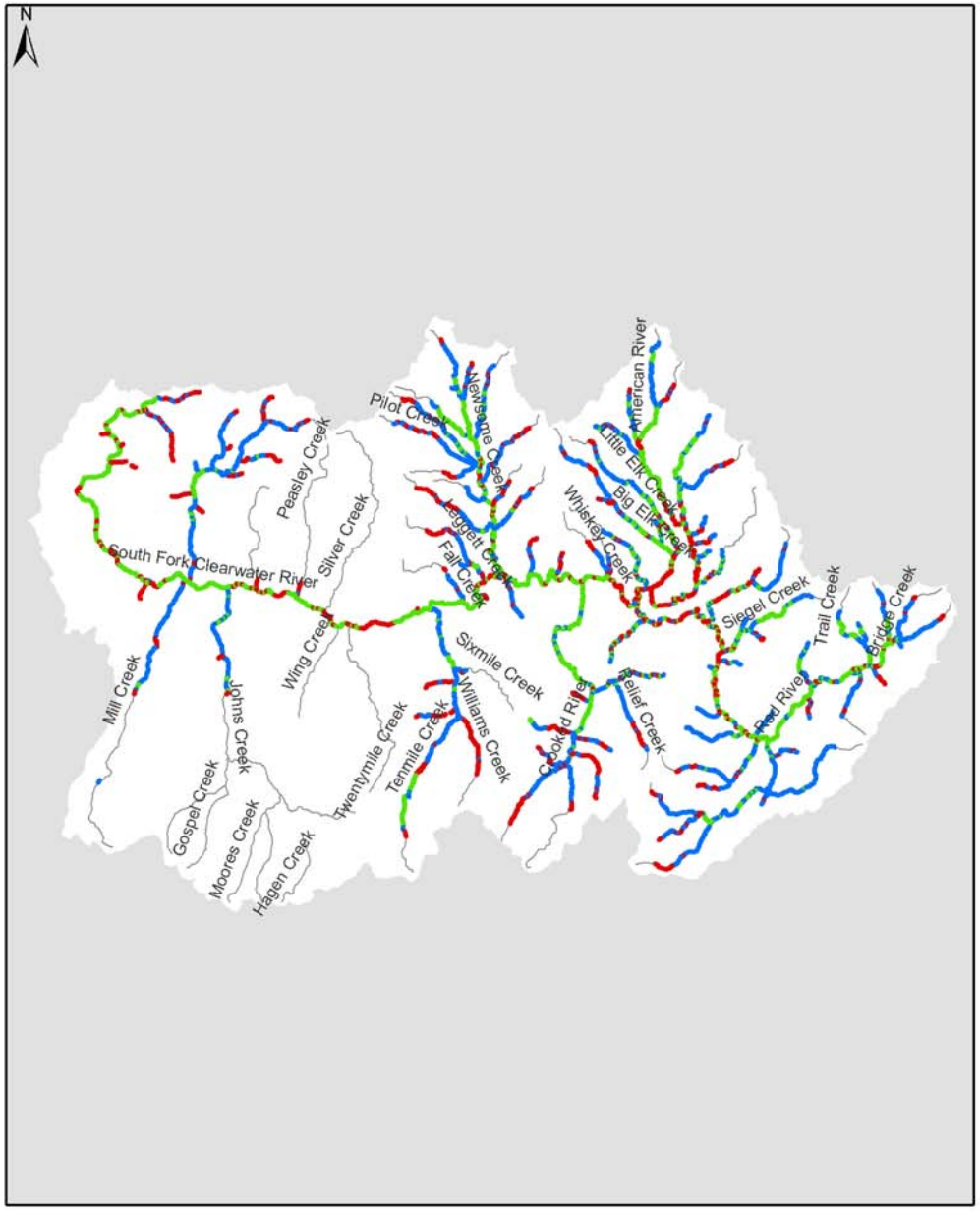
South Fork Clearwater River Steelhead population

Habitat and Spawning





Intrinsic potential for spawning and rearing

low — moderate — high

Spawning

B.L.M.

Private

Forest Service

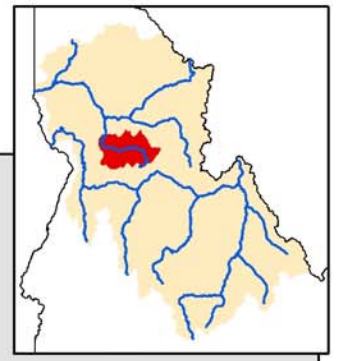
State of Idaho

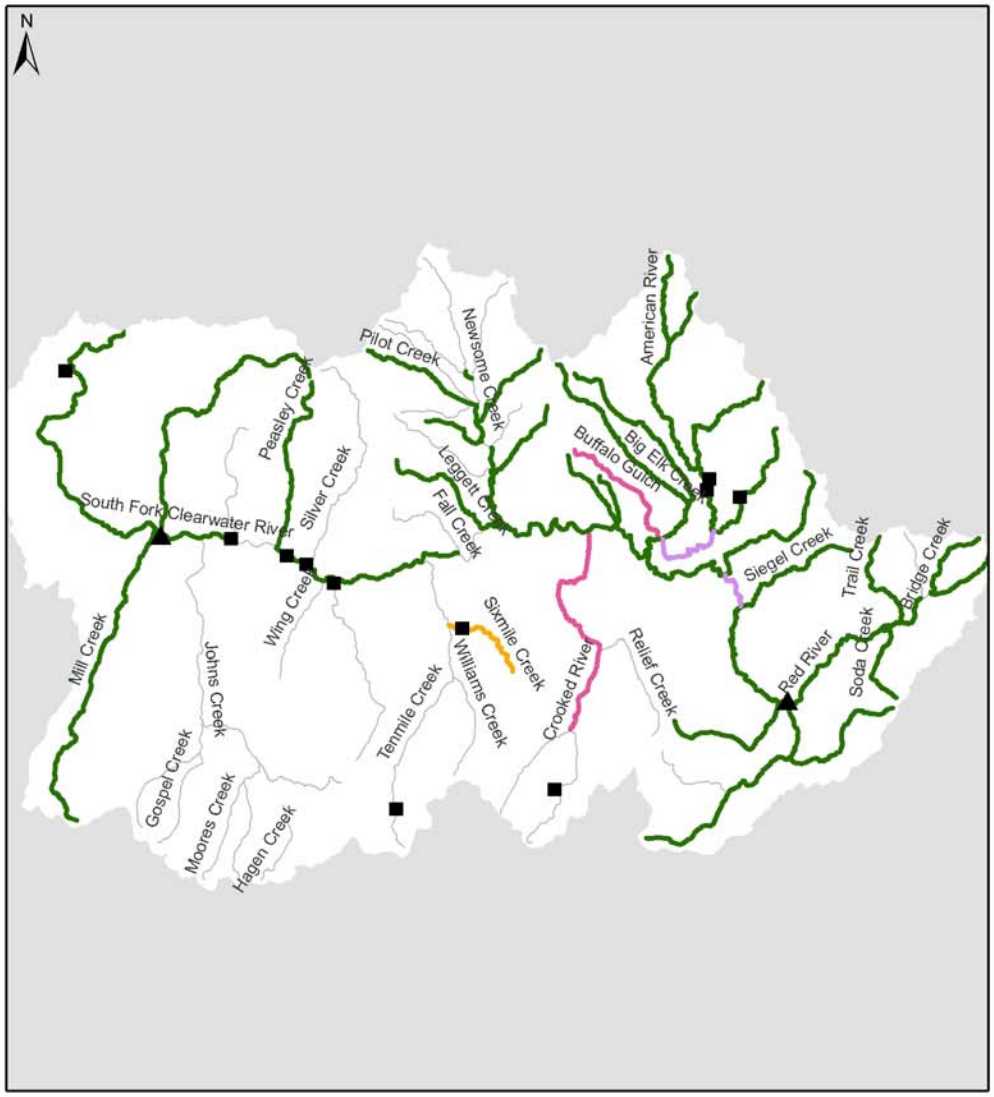
Data sources: NMFS, StreamNet.

South Fork Clearwater River
Steelhead population

Limiting Factors to Habitat

Key factors: temperature, siltation





IDFG constraints to steelhead habitat

- High Temperatures
- Sedimentation
- Passage Blocked
- Streambank Degradation

2002 303(d) listed streams:

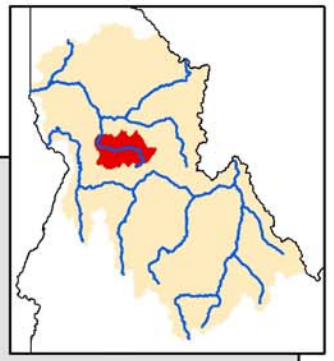
- Siltation, Temperature
- Temperature

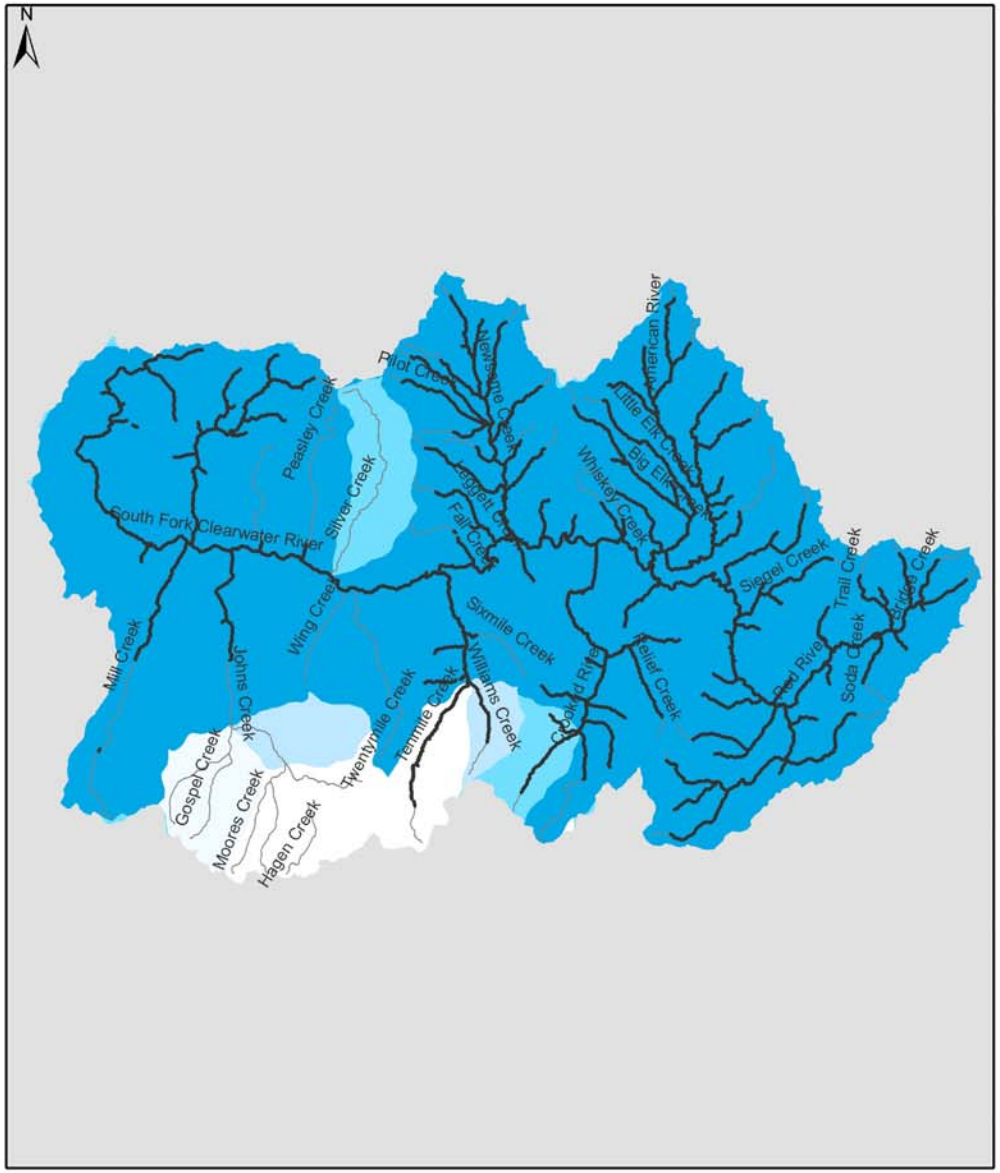
- ■ Fish passage barriers
- ▲ Hatchery release point

Data sources: NMFS, StreamNet, IDEQ, USFS.

South Fork Clearwater River Steelhead population

Threats





Road density

- very low
- low
- moderate
- high
- extremely high

Streams with intrinsic potential

Streams without intrinsic potential

Livestock grazing (AUMs)

- low
- moderate
- high

Data sources: NMFS, ICBEMP, IDWR.

Limiting Factors

IDEQ's 2002 303(d) listings

Water body	Cause	Length (miles)
American River - East Fork American River to mouth	Temperature	20.1
American River - source to East Fork American River	Temperature	39.3
Baldy Creek - source to mouth	Temperature	8.0
Bear Creek - source to mouth	Temperature	8.0
Beaver Creek - source to mouth	Siltation, Temperature	6.7
Big Elk Creek - source to mouth	Temperature	19.7
Bridge Creek - source to mouth	Temperature	7.2
Buffalo Gulch - source to mouth	Siltation, Temperature	6.5
Cougar Creek - source to mouth	Siltation, Temperature	17.1
Crooked River - confluence of West and East Fork Crooked Rivers to Relief Creek	Temperature	33.7
Crooked River - Relief Creek to mouth	Temperature	17.2
East Fork American River - source to mouth	Temperature	33.1
East Fork Crooked River - source to mouth	Temperature	12.0
Elk Creek - confluence of Big Elk and Little Elk Creeks to mouth	Temperature	4.4
Fall Creek - source to mouth	Temperature	7.8
Gospel Creek - source to mouth	Temperature	2.0
Haysfork Creek - source to mouth	Temperature	9.5
Johns Creek - Gospel Creek to mouth	Temperature	52.1
Johns Creek - Moores Creek to Gospel Creek	Temperature	18.9
Kirks Fork - source to mouth	Temperature	17.1
Leggett Creek - source to mouth	Temperature	11.9
Little Elk Creek - source to mouth	Temperature	12.7
Maurice Creek - source to mouth	Temperature	2.6
Meadow Creek - source to mouth	Temperature	47.7
Mill Creek - source to mouth	Temperature	44.7
Moose Butte Creek - source to mouth	Temperature	15.2
Mule Creek - source to mouth	Temperature	13.8
Newsome Creek - Beaver Creek to mouth	Siltation, Temperature	12.4
Newsome Creek - Mule Creek to Beaver Creek	Temperature	2.3
Newsome Creek - source to Mule Creek	Temperature	15.7
Nugget Creek - source to mouth	Siltation, Temperature	4.5
Otterson Creek - source to mouth	Temperature	6.2
Peasley Creek - source to mouth	Temperature	22.3
Pilot Creek - source to mouth	Temperature	10.4
Red Horse Creek - source to mouth	Temperature	14.0
Red River - source to South Fork Red River	Temperature	43.4
Red River - South Fork Red River to Siegel Creek	Siltation, Temperature	27.1
Red River - South Fork Red River to Siegel Creek	Temperature	16.5

StreamNet data

Stream Name	Constraint	Length (miles)
American R	Sedimentation	17.3
American R	Streambank Degradation	4.2
American R, E Fk	Sedimentation	6.5
American R, Kirks Fk	Sedimentation	6.8
Bear Cr	Sedimentation	4.3
Beaver Cr	Sedimentation	4.9
Big Elk Cr	Sedimentation	12.0
Bridge Cr	Sedimentation	4.0
Buffalo Gulch Cr	Instream Cover Poor	6.5
Clearwater R, S Fk	Sedimentation	42.0
Crooked R	Instream Cover Poor	11.7
Crooked R, E Fk	Steep Gradient	7.1
Crooked R, W Fk	Steep Gradient	12.4
Johns Cr	Steep Gradient	14.3
Leggett Cr	Sedimentation	6.1
Limber Luke Cr	Sedimentation	2.8
Little Elk Cr	Sedimentation	9.2
Maurice Cr	Sedimentation	2.6
Meadow Cr	Sedimentation	15.2
Mill Cr	Sedimentation	15.9
Moose Butte Cr	Sedimentation	6.7
Mule Cr	Steep Gradient	5.3
Newsome Cr	Sedimentation	7.7
Newsome Cr, W Fk	Steep Gradient	6.0
Peasley Cr	Sedimentation	9.0
Pilot Cr	Sedimentation	5.9
Red Horse Cr	Sedimentation	8.2
Red R	Sedimentation	26.0
Red R	Steep Gradient	4.5
Red R	Streambank Degradation	1.9
Red R, S Fk	Sedimentation	11.7
Red R, W Fk	Steep Gradient	4.3
Relief Cr	Steep Gradient	6.3
Sawmill Cr	Steep Gradient	3.6
Siegel Cr	Sedimentation	6.7
Sing Lee Cr	Sedimentation	3.1
Sixmile Cr	Passage Blocked	4.6
Soda Cr	Sedimentation	4.3

Red River- Siegel Creek to mouth	Temperature	24.9	Tenmile Cr	Steep Gradient	13.2
Relief Creek - source to mouth	Temperature	13.5	Trail Cr	Sedimentation	5.2
Sawmill Creek - source to mouth	Temperature	6.0	Trapper Cr	Sedimentation	6.6
Siegel Creek - source to mouth	Temperature	13.6	Whiskey Cr	Sedimentation	4.2
Silver Creek - source to mouth	Temperature	41.0			
Sing Lee Creek - source to mouth	Siltation, Temperature	4.5			
Sixmile Creek - source to mouth	Temperature	13.8			
Soda Creek - source to mouth	Temperature	8.0			
South Fork Clearwater River - confluence of American River and Red River to Crooked River	Siltation, Temperature	9.2			
South Fork Clearwater River - Crooked River to Tenmile Creek	Siltation, Temperature	40.2			
South Fork Clearwater River - Johns Creek to Butcher Creek	Siltation, Temperature	101.4			
South Fork Clearwater River - Tenmile Creek to Johns Creek	Siltation, Temperature	45.7			
South Fork Clearwater River - Tenmile Creek to Johns Creek	Temperature	4.1			
South Fork Red River - source to West Fork Red River	Temperature	7.9			
South Fork Red River - Trapper Creek to mouth	Temperature	6.4			
South Fork Red River - West Fork Red River to Trapper Creek	Temperature	7.9			
Tenmile Creek - Sixmile Creek to mouth	Temperature	6.4			
Tenmile Creek - source to Williams Creek	Temperature	21.7			
Tenmile Creek - Williams Creek to Sixmile Creek	Temperature	15.0			
Trail Creek - source to mouth	Temperature	9.4			
Trapper Creek - source to mouth	Temperature	13.8			
Twentymile Creek - source to mouth	Temperature	27.9			
West Fork Crooked River - source to mouth	Temperature	13.5			
West Fork Newsome Creek - source to mouth	Temperature	7.2			
West Fork Red River - source to mouth	Temperature	14.9			
Whiskey Creek - source to mouth	Temperature	4.2			
Williams Creek - source to mouth	Temperature	11.7			
Wing Creek - source to mouth	Temperature	11.0			

Idaho Department of Environmental Quality. 2006. 2002-2003 305(b) Integrated Report, vector data. Available through Inside Idaho: http://inside.uidaho.edu/geodata/find.htm

Idaho Department of Fish and Game. 1989. Habitat Quality for Smolt Density Model, vector data. Available through StreamNet: http://www.streamnet.org/