

RECLAMATION
Managing Water in the West

Yankee Fork Tributary Assessment, Map Atlas



U.S. Department of the Interior
Bureau of Reclamation
Boise, Idaho

January 2012



MISSION STATEMENT

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

INTRODUCTION

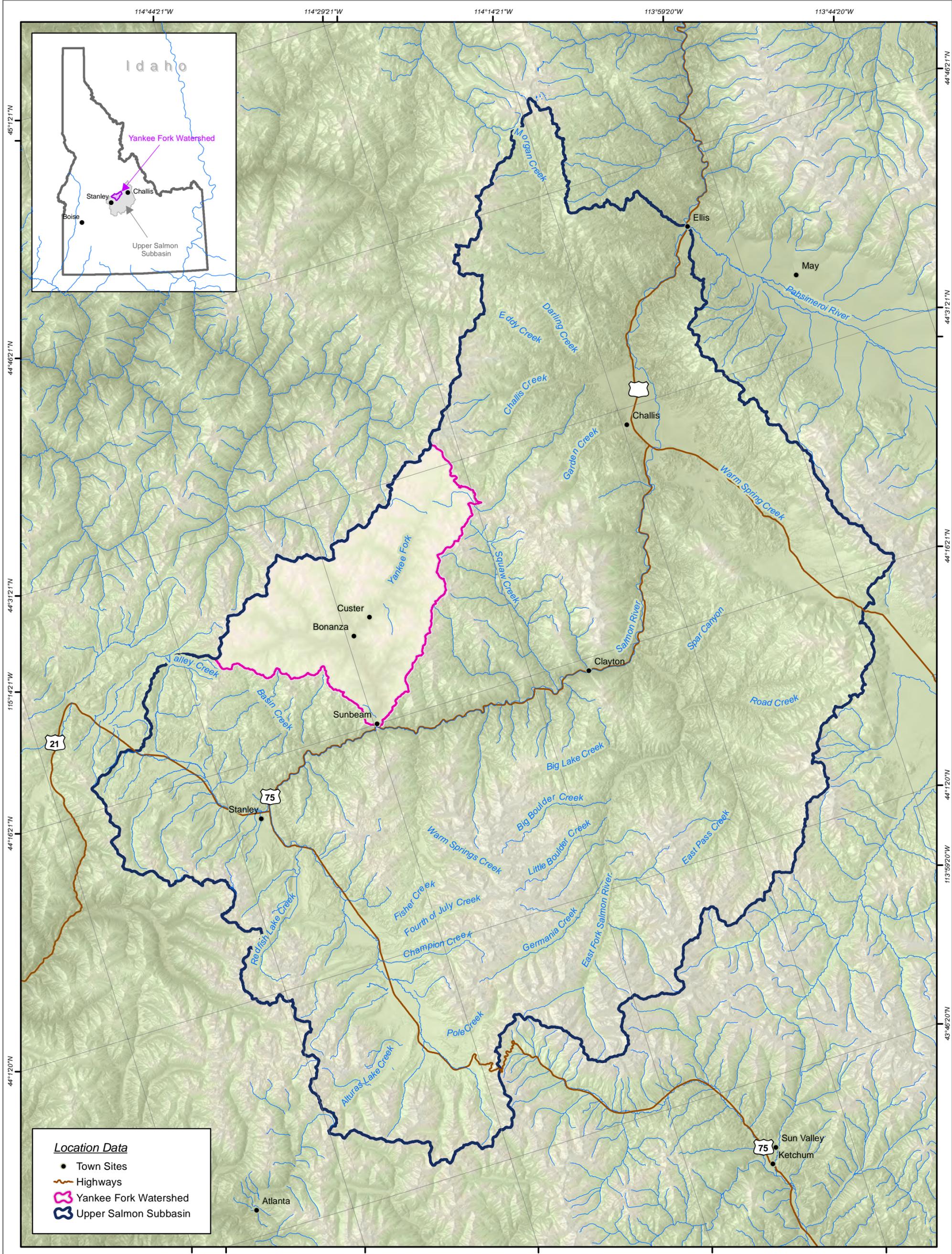
The *Yankee Fork Tributary Assessment Map Atlas* provides GIS-based maps that illustrate key results from geologic and geomorphic mapping, hydraulic and sediment analysis, and habitat features accomplished for the *Yankee Fork Tributary Assessment, Custer County, Idaho* (Reclamation, 2011). The assessment area covers approximately 13.5 miles of the Yankee Fork from just north of Polecamp Creek to just north of Eightmile Creek (river miles 2.9 to 16.4). This *Atlas* also includes several general maps that cover the entire Yankee Fork watershed based on ongoing mapping efforts by the U.S. Forest Service and information available from the U.S. Geological Survey.

Metadata for GIS-based mapping are provided in the related GIS files available for the *Tributary Assessment* report. The *Yankee Fork Map Atlas* was generated by PN Region GIS on behalf of the River Systems Analysis Group at the PN Region Office of the Bureau of Reclamation.

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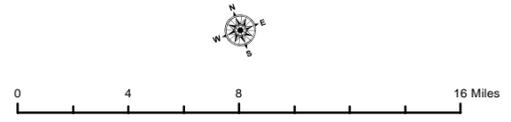
**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

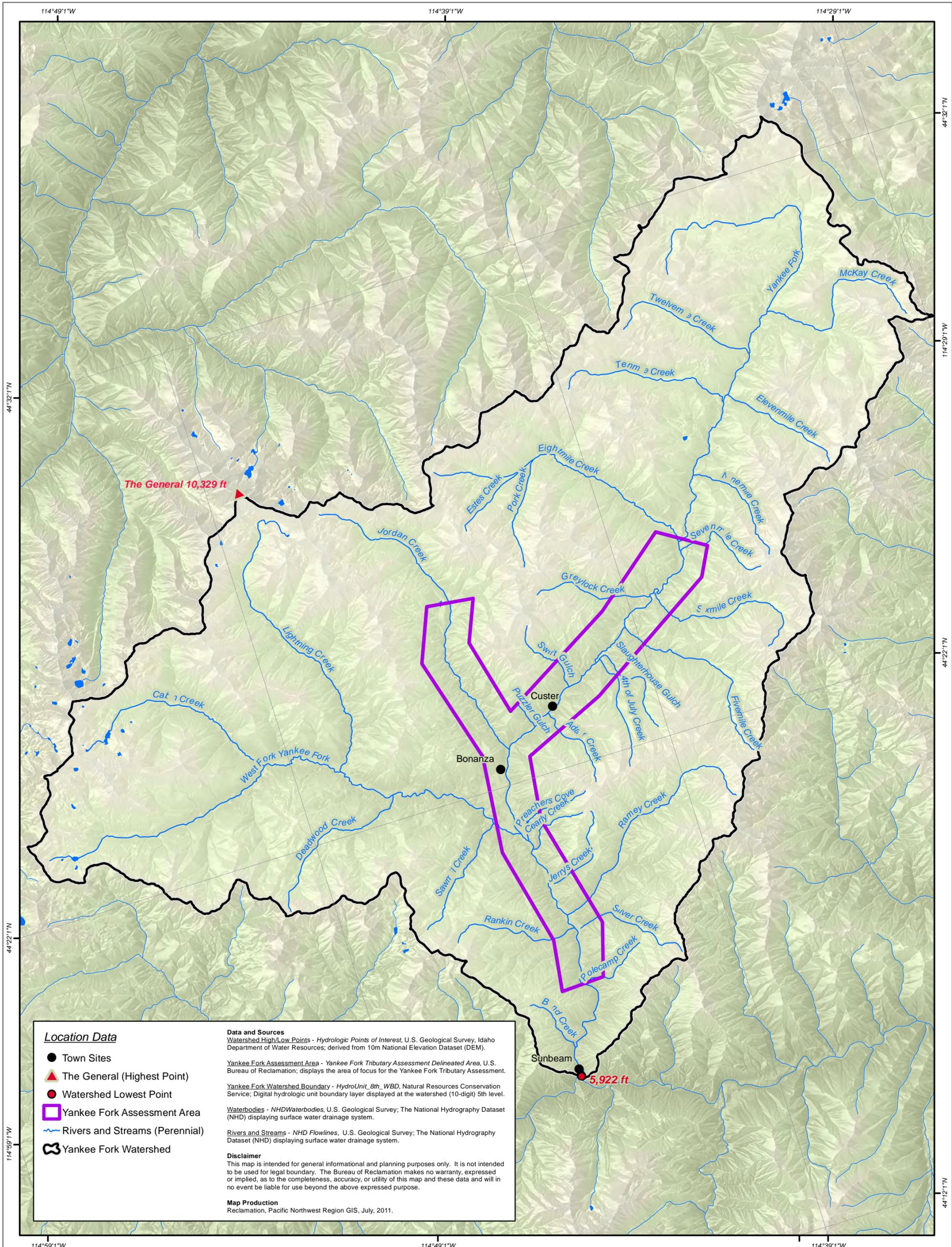
Watershed Location

Map 1

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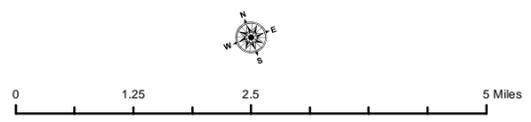


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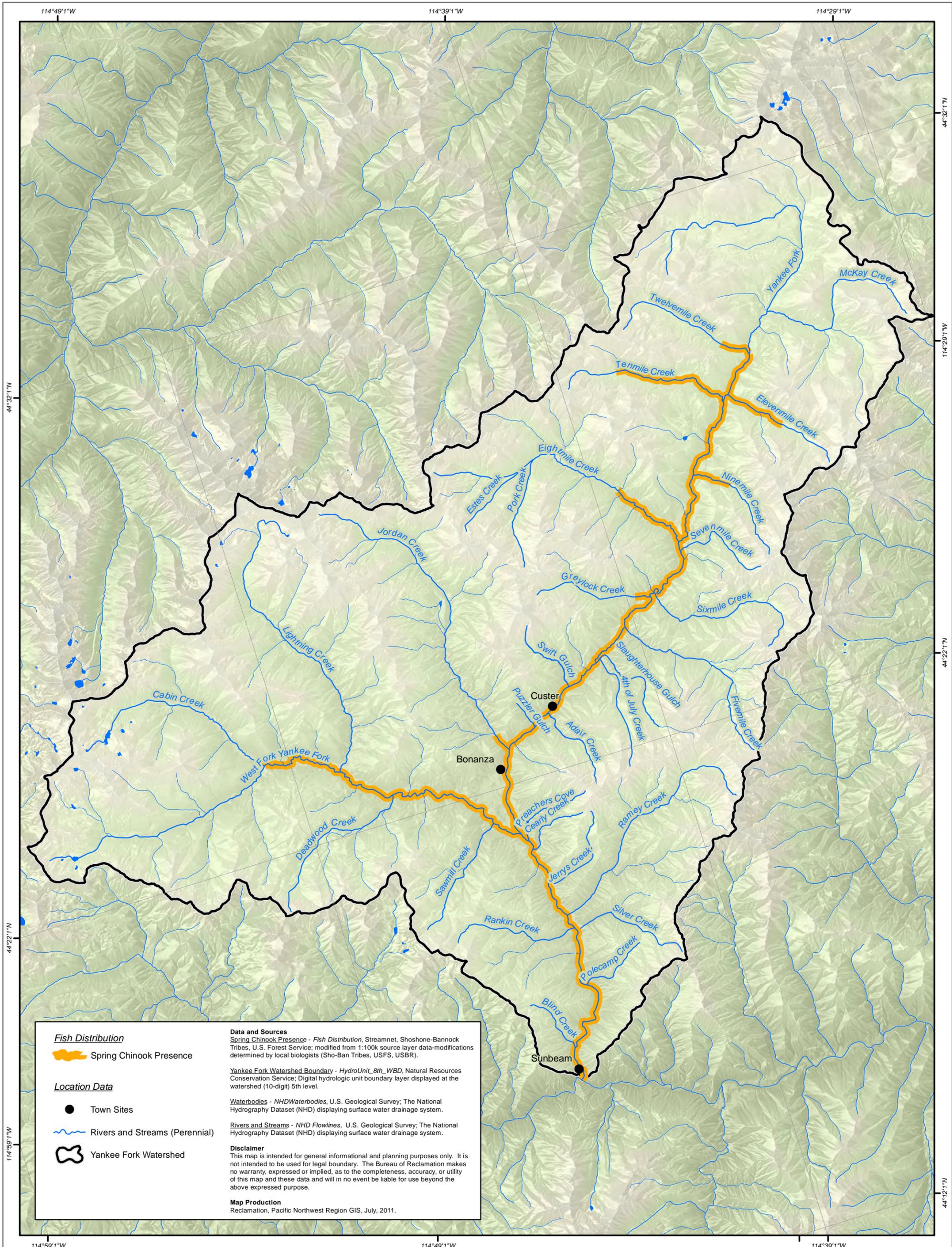
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Tributary Assessment Location

Map 2



July, 2011



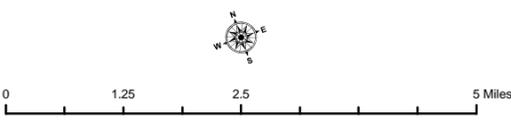
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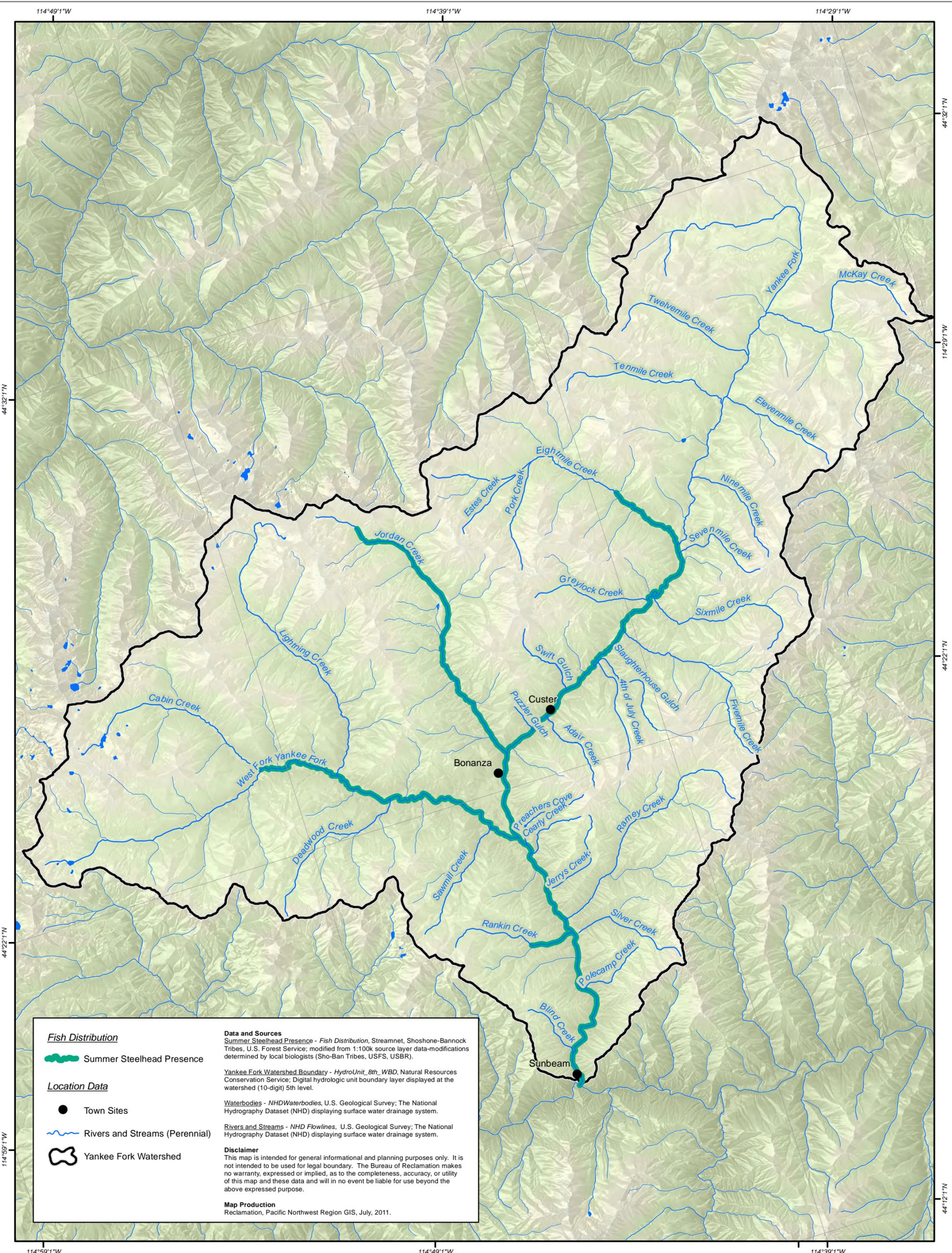
Spring Chinook Presence

Map 3

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Fish Distribution

Summer Steelhead Presence

Location Data

Town Sites

Rivers and Streams (Perennial)

Yankee Fork Watershed

Data and Sources
 Summer Steelhead Presence - Fish Distribution, Streamnet, Shoshone-Bannock Tribes, U.S. Forest Service; modified from 1:100k source layer data-modifications determined by local biologists (Sho-Ban Tribes, USFS, USBR).

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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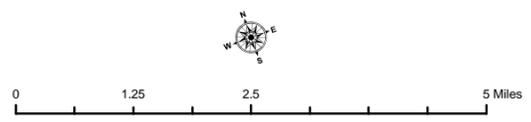
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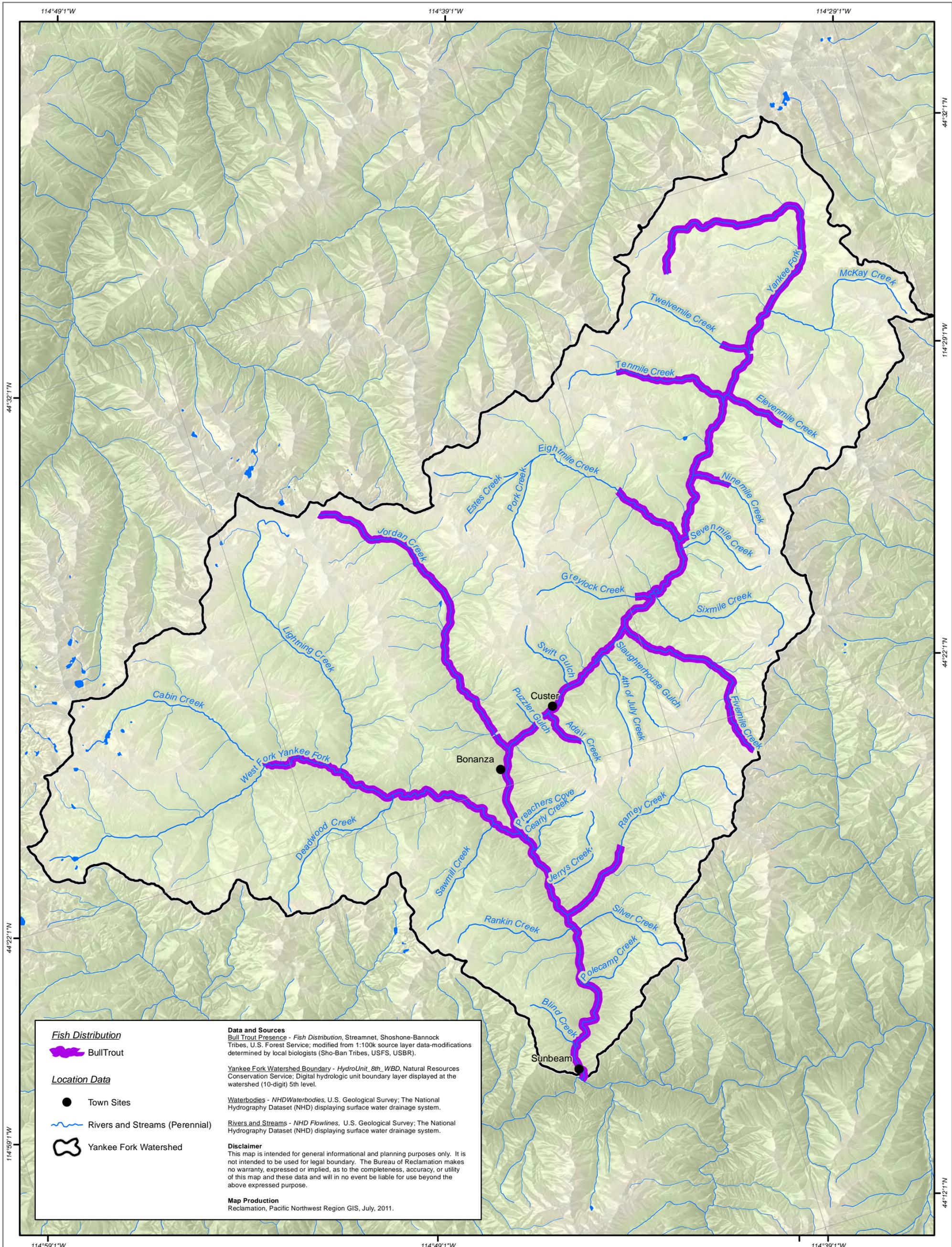
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Steelhead Presence

Map 4



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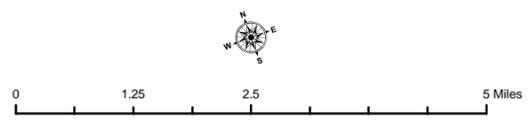


**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

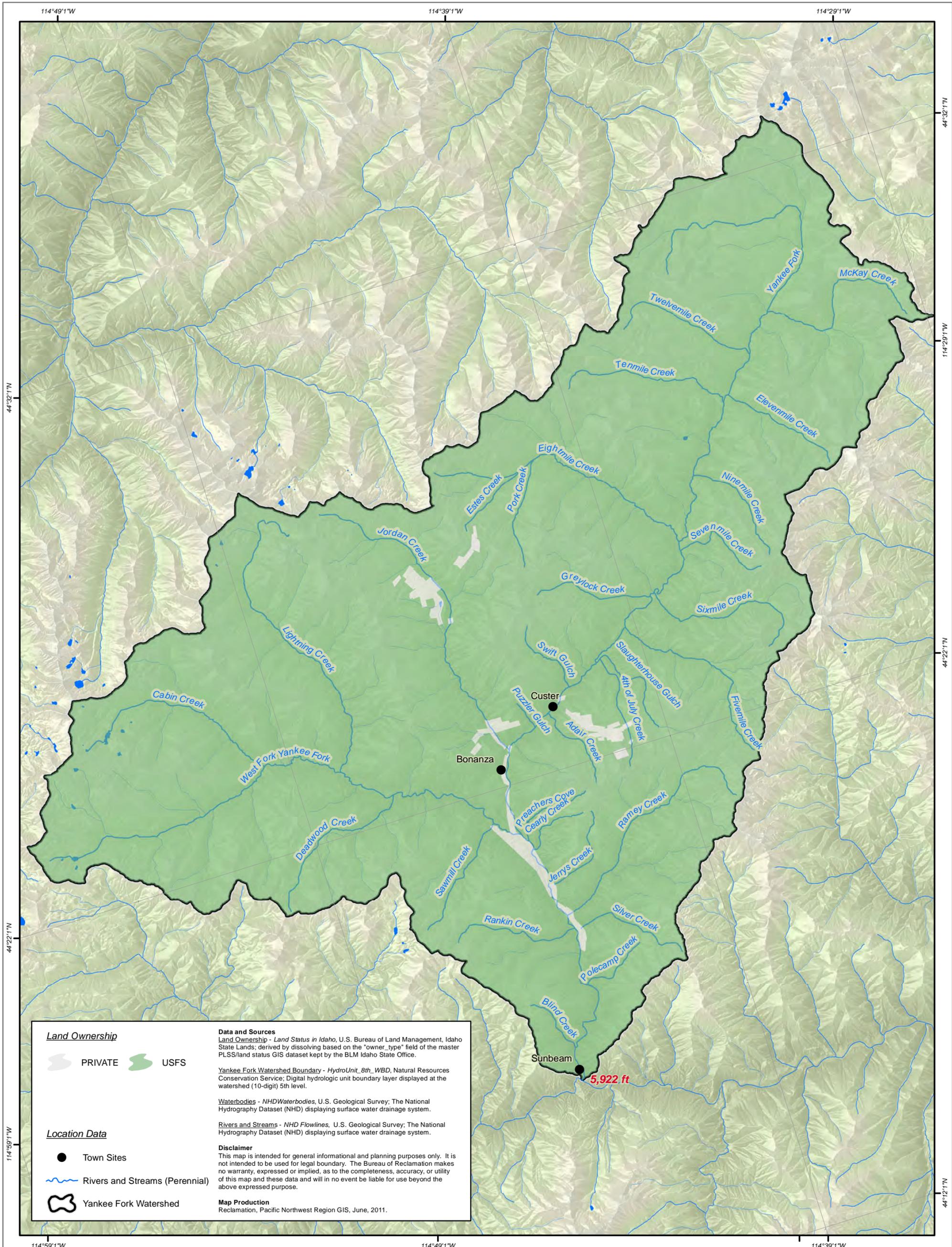
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Bull Trout Presence

Map 5



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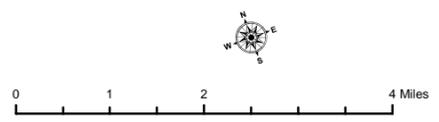


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

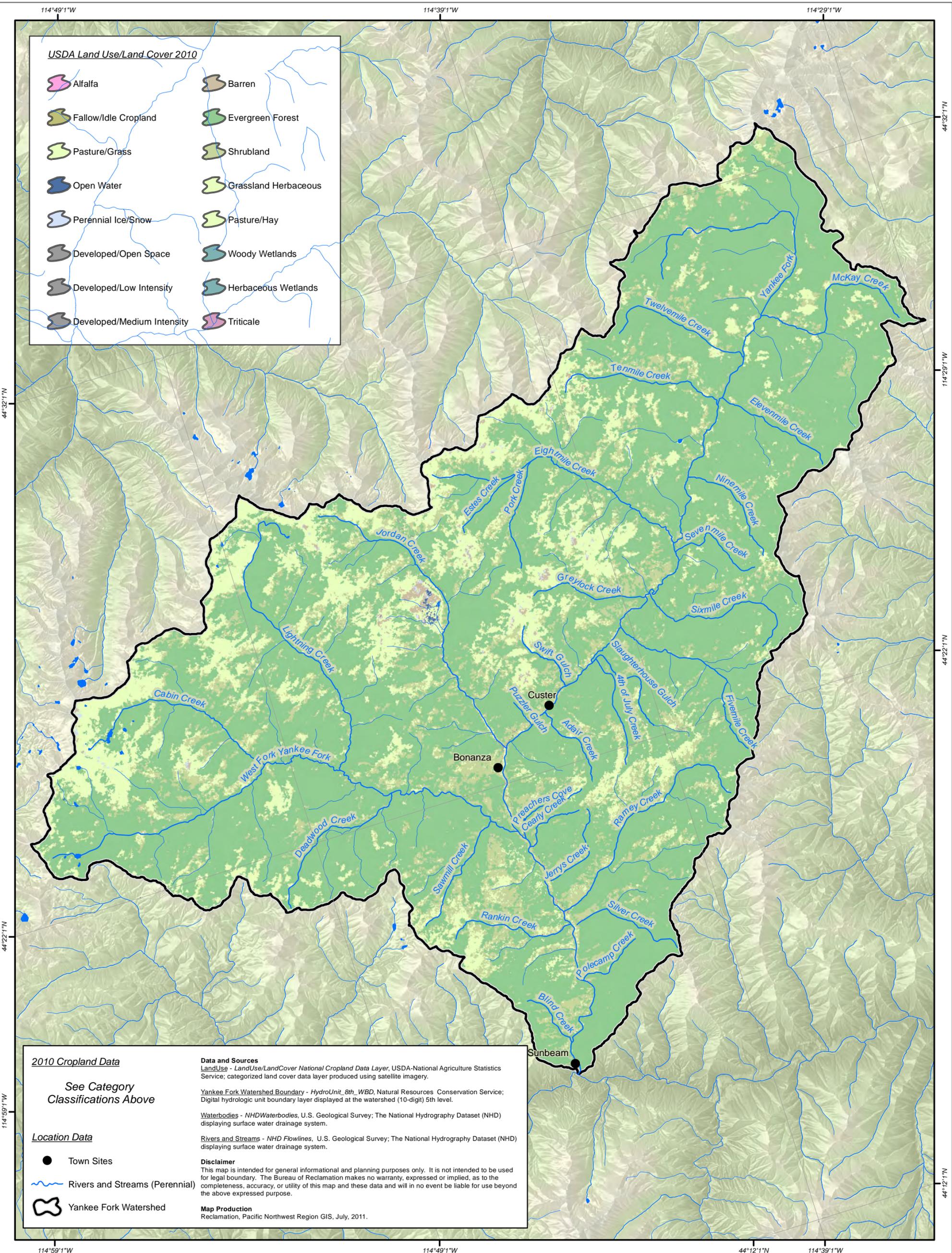
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Land Ownership

Map 6



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USDA Land Use/Land Cover 2010

Alfalfa	Barren
Fallow/Idle Cropland	Evergreen Forest
Pasture/Grass	Shrubland
Open Water	Grassland Herbaceous
Perennial Ice/Snow	Pasture/Hay
Developed/Open Space	Woody Wetlands
Developed/Low Intensity	Herbaceous Wetlands
Developed/Medium Intensity	Triticale

2010 Cropland Data

See Category Classifications Above

Location Data

- Town Sites
- Rivers and Streams (Perennial)
- Yankee Fork Watershed

Data and Sources
 LandUse - LandUse/LandCover National Cropland Data Layer, USDA-National Agriculture Statistics Service; categorized land cover data layer produced using satellite imagery.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

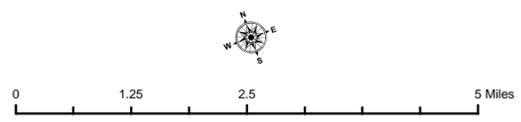
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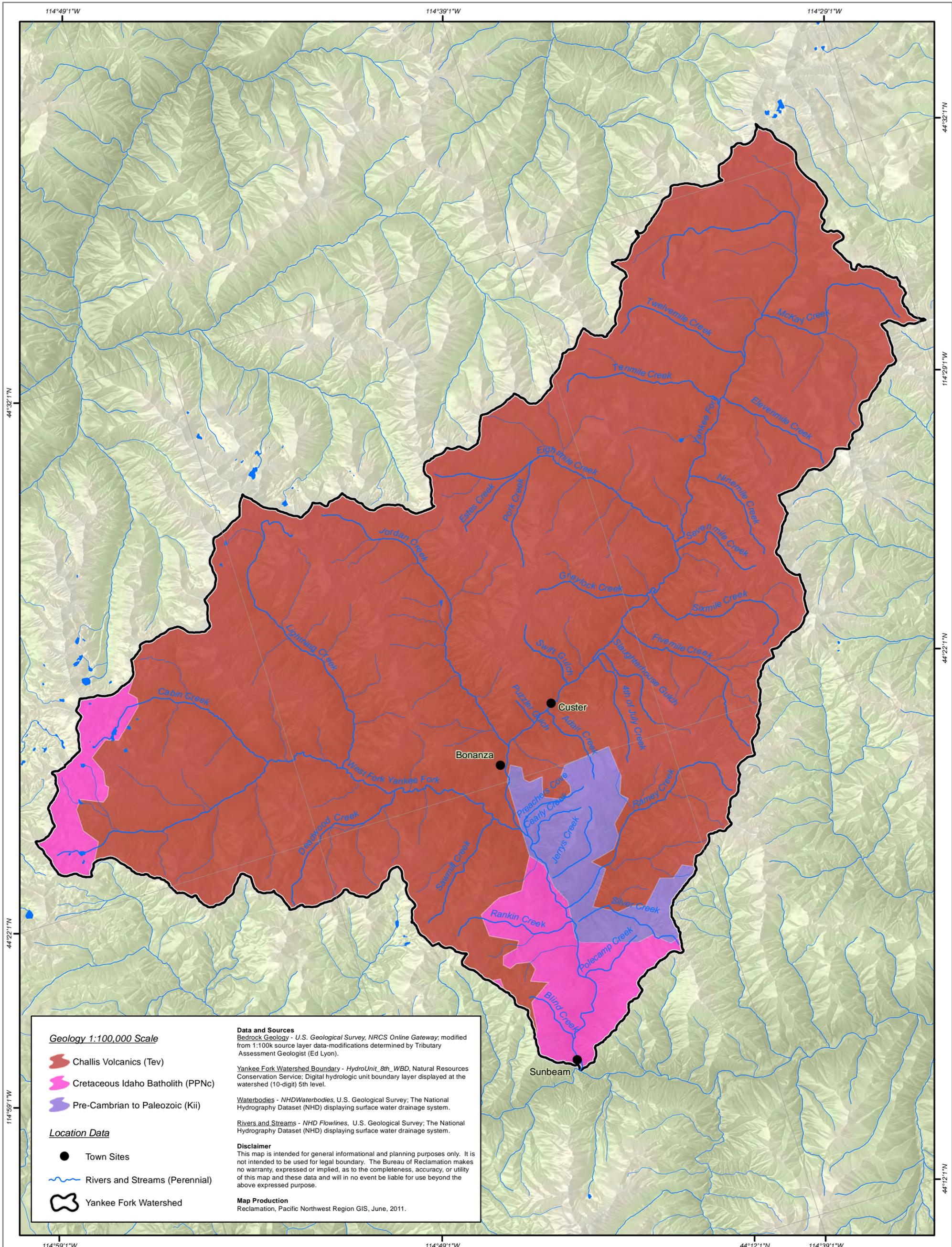
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 Upper Salmon Subbasin, Idaho**

Land Use/Land Cover

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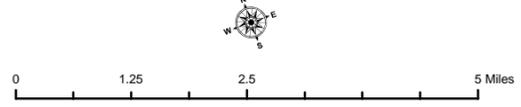


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

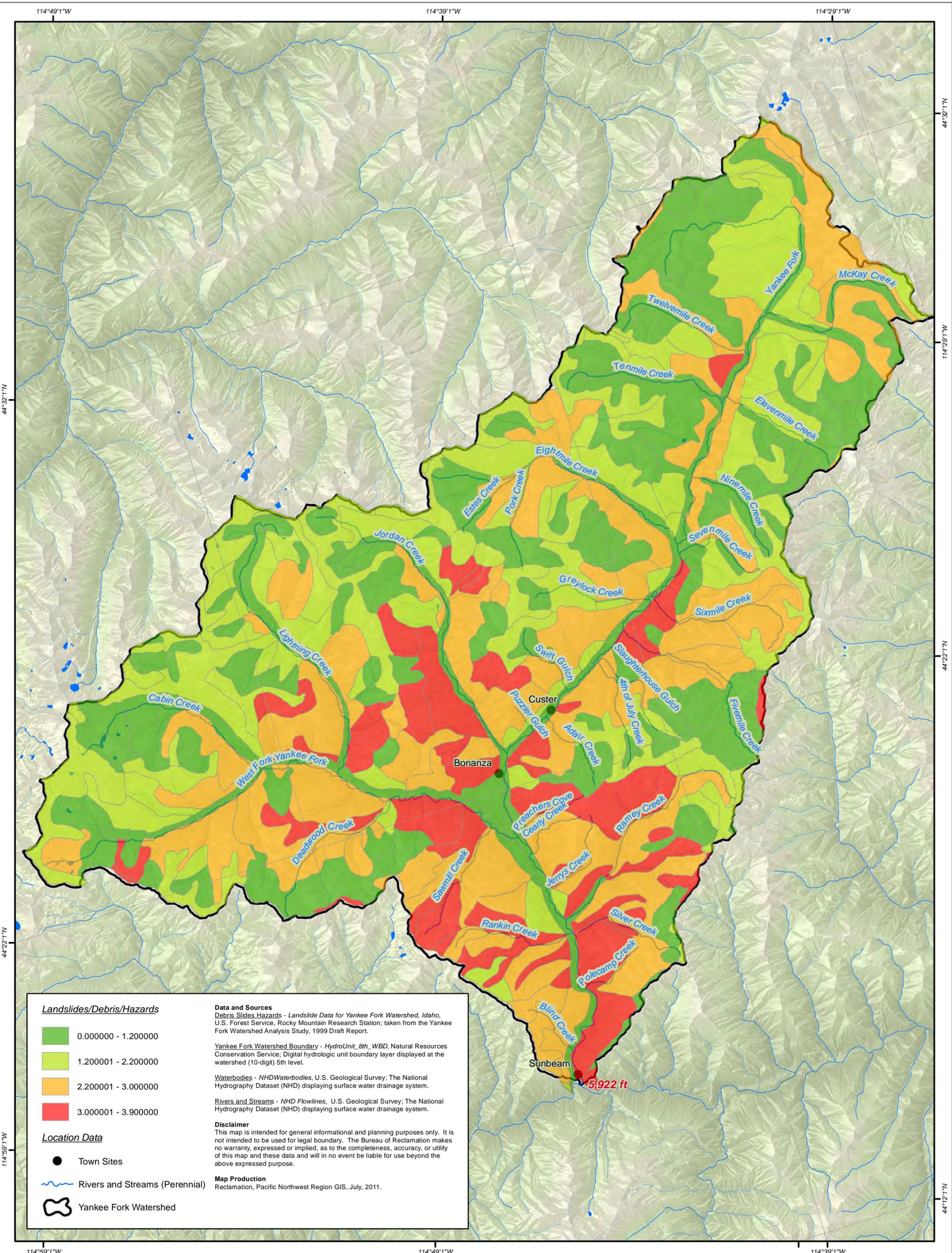
Bedrock Geology

Map 8

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Landslides/Debris/Hazards

- 0.000000 - 1.200000
- 1.200001 - 2.200000
- 2.200001 - 3.000000
- 3.000001 - 3.900000

Location Data

- Town Sites
- Rivers and Streams (Perennial)
- Yankee Fork Watershed

Data and Sources
 Debris Slides Hazards - *Landslide Data for Yankee Fork Watershed, Idaho*, U.S. Forest Service, Rocky Mountain Research Station; taken from the Yankee Fork Watershed Analysis Study, 1999 Draft Report.

Yankee Fork Watershed Boundary - *HydroUnit_8th_WBD*, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - *NHDWaterbodies*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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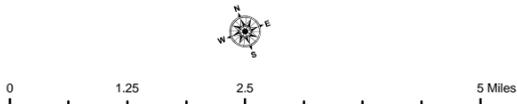
**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

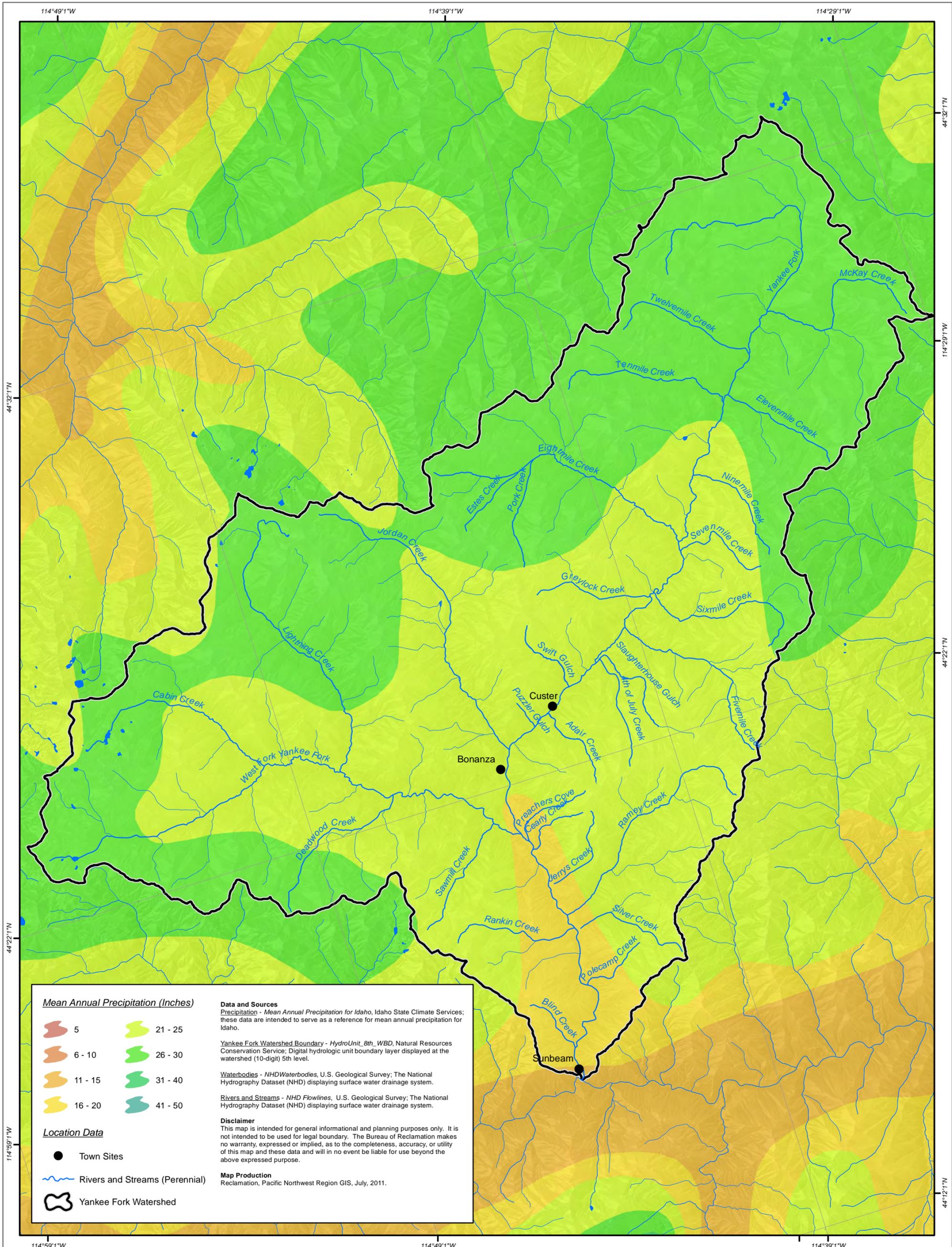
Landslides

Map 9

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Mean Annual Precipitation (Inches)

	5		21 - 25
	6 - 10		26 - 30
	11 - 15		31 - 40
	16 - 20		41 - 50

Location Data

- Town Sites
- Rivers and Streams (Perennial)
- Yankee Fork Watershed

Data and Sources
 Precipitation - Mean Annual Precipitation for Idaho, Idaho State Climate Services; these data are intended to serve as a reference for mean annual precipitation for Idaho.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

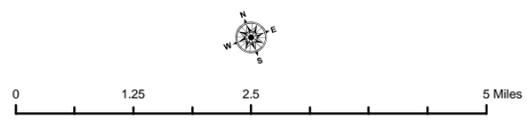
Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

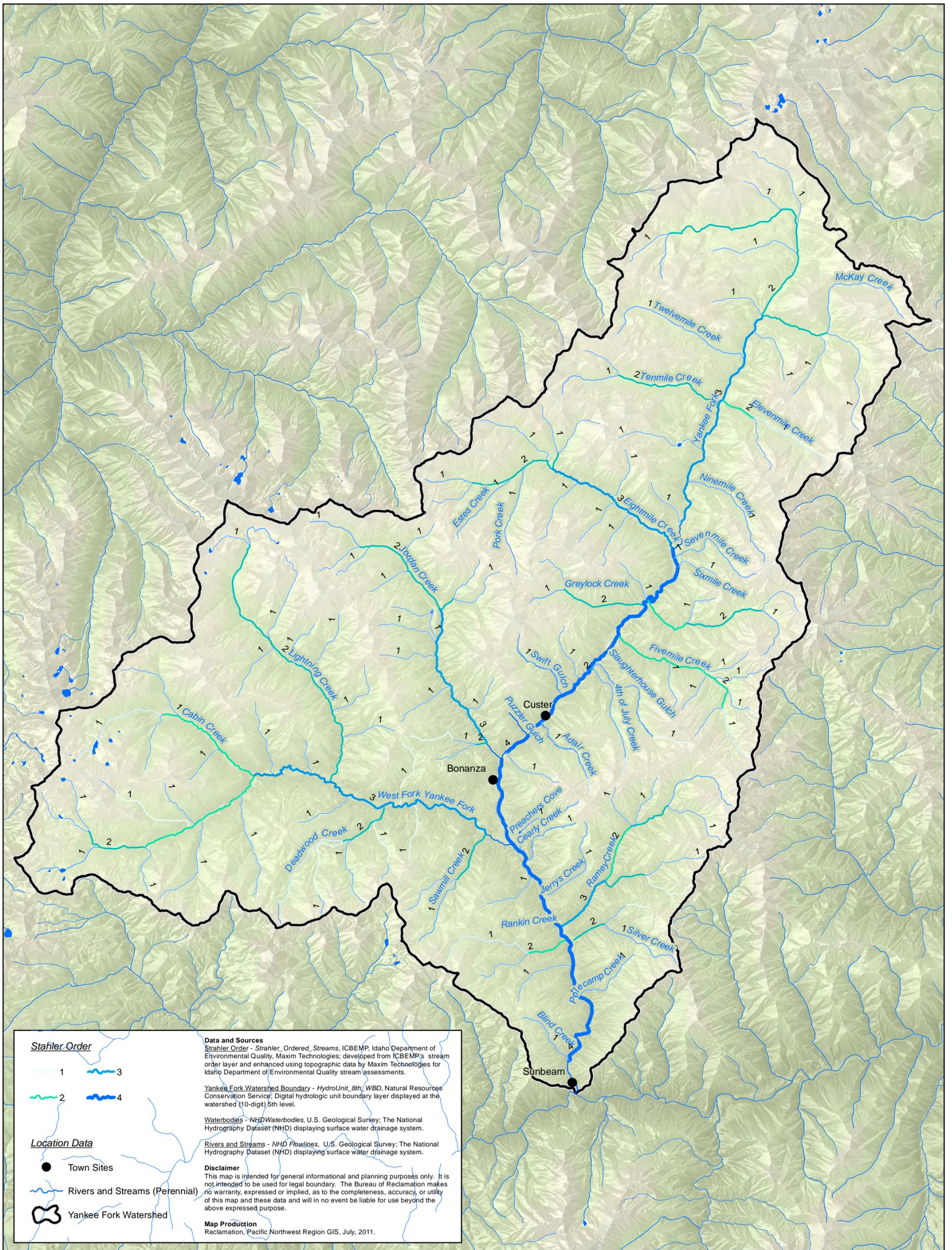
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 Upper Salmon Subbasin, Idaho**

Mean Annual Precipitation Isopluvial

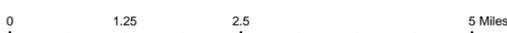


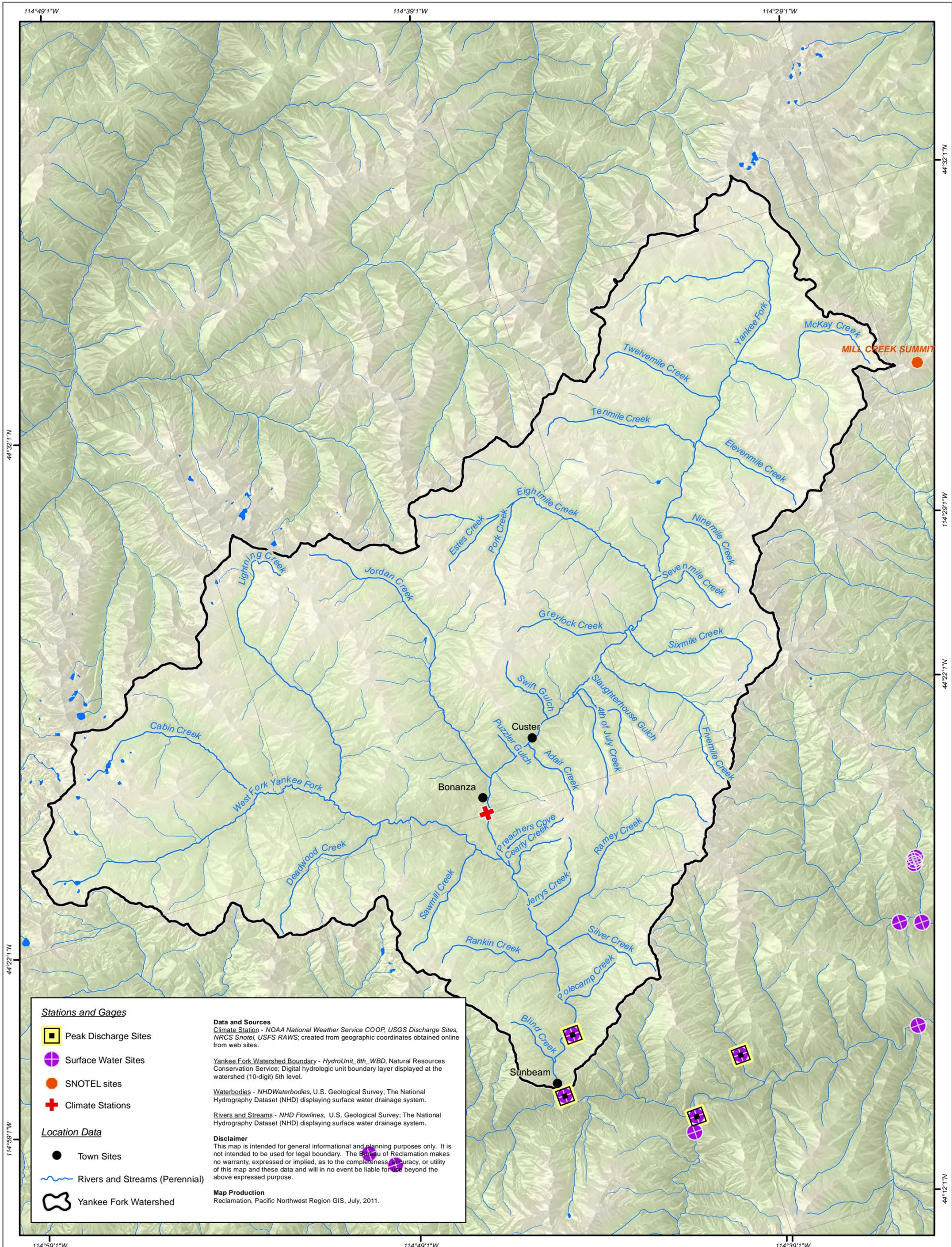


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Strahler Stream Order

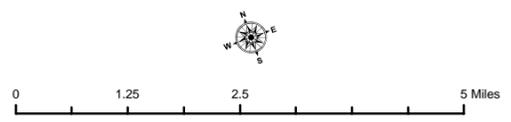


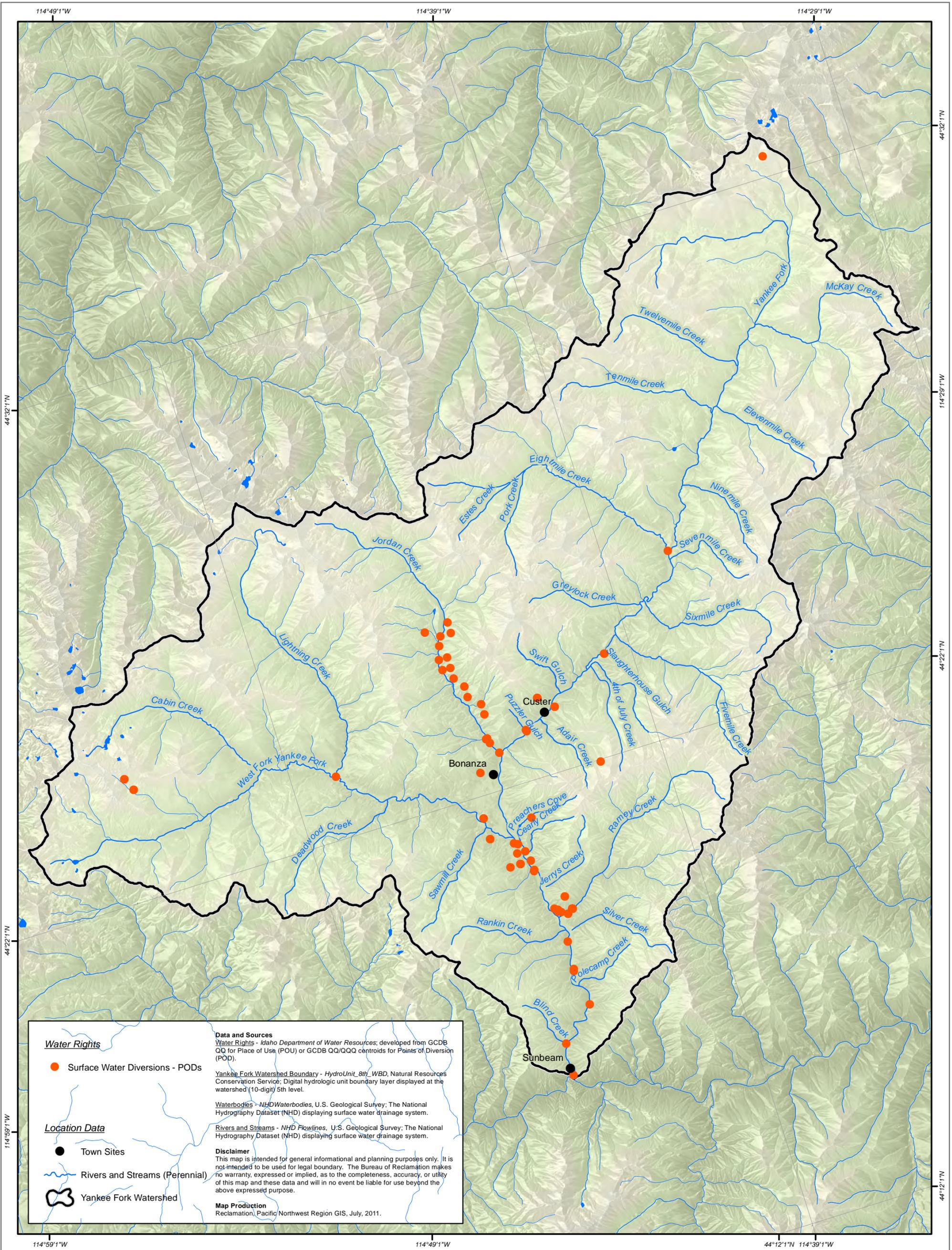


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Weather Stations and Stream Gages

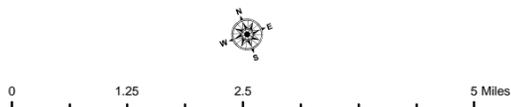


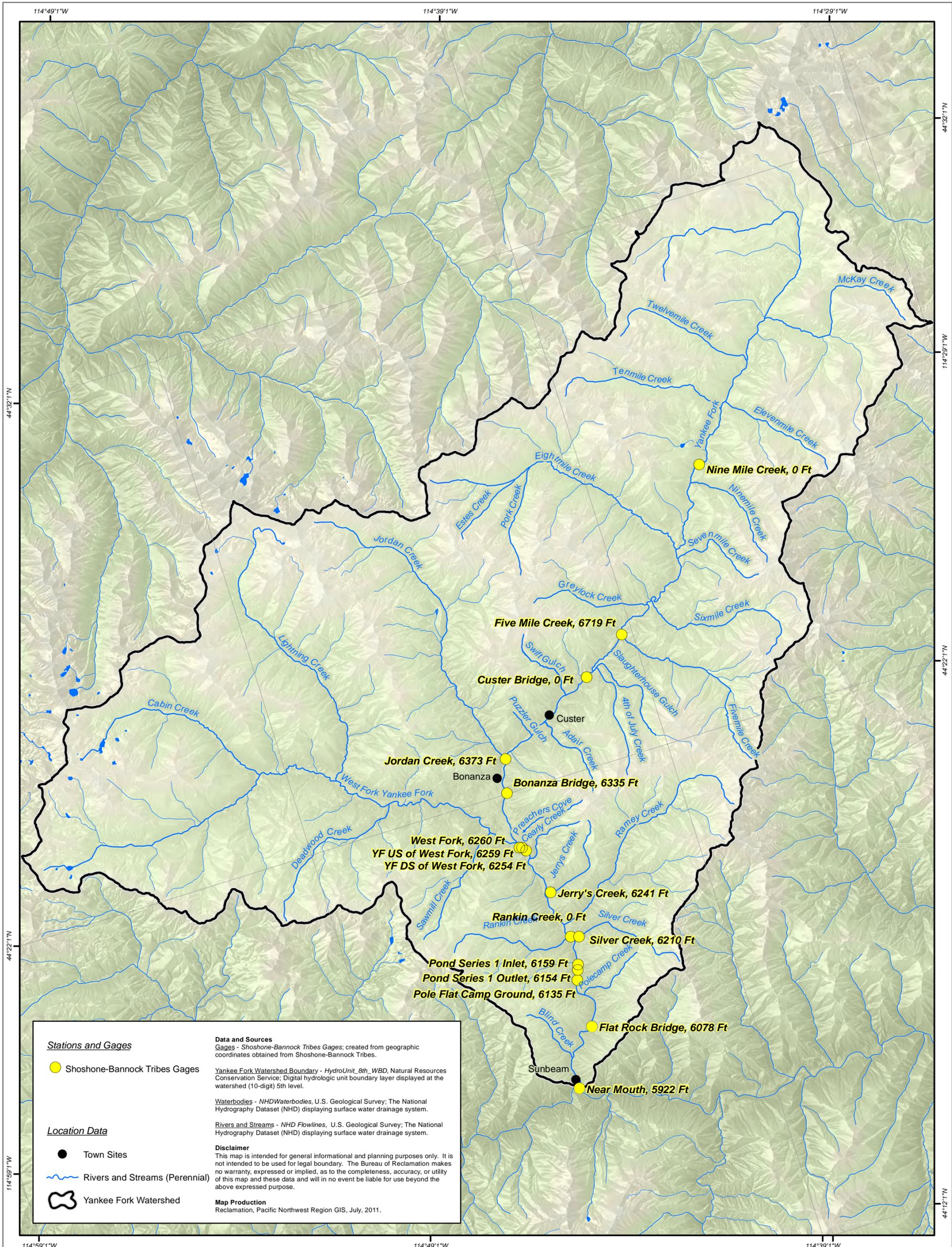


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Water Rights Points of Diversions





Stations and Gages

- Shoshone-Bannock Tribes Gages

Location Data

- Town Sites
- ~ Rivers and Streams (Perennial)
- ⬮ Yankee Fork Watershed

Data and Sources
 Gages - Shoshone-Bannock Tribes Gages; created from geographic coordinates obtained from Shoshone-Bannock Tribes.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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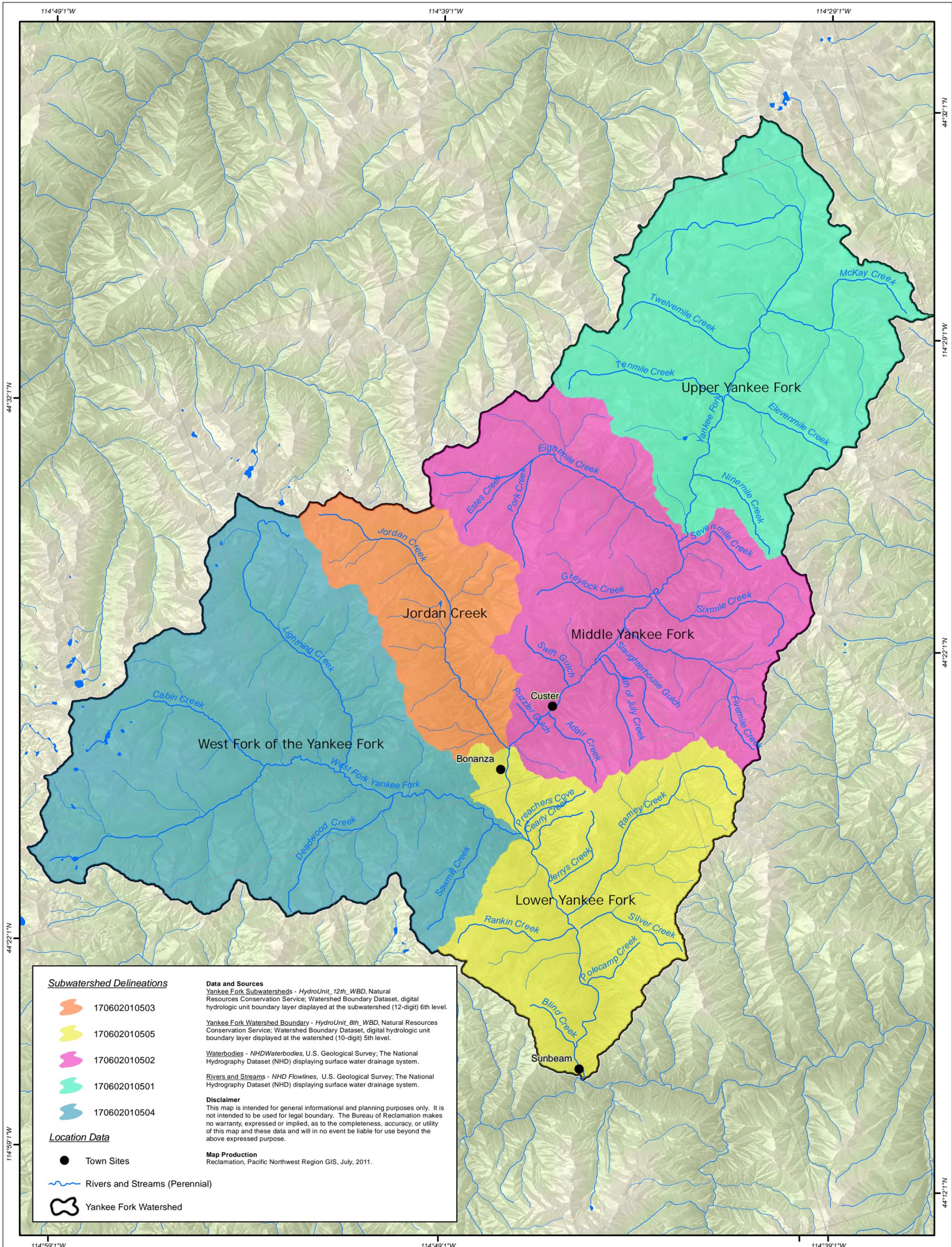
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Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Yankee Fork Watershed Shoshone-Bannock Gages

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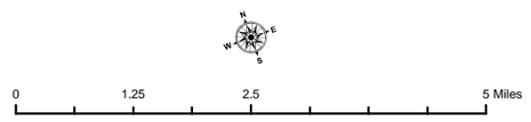


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Upper Salmon Subbasin, Idaho**

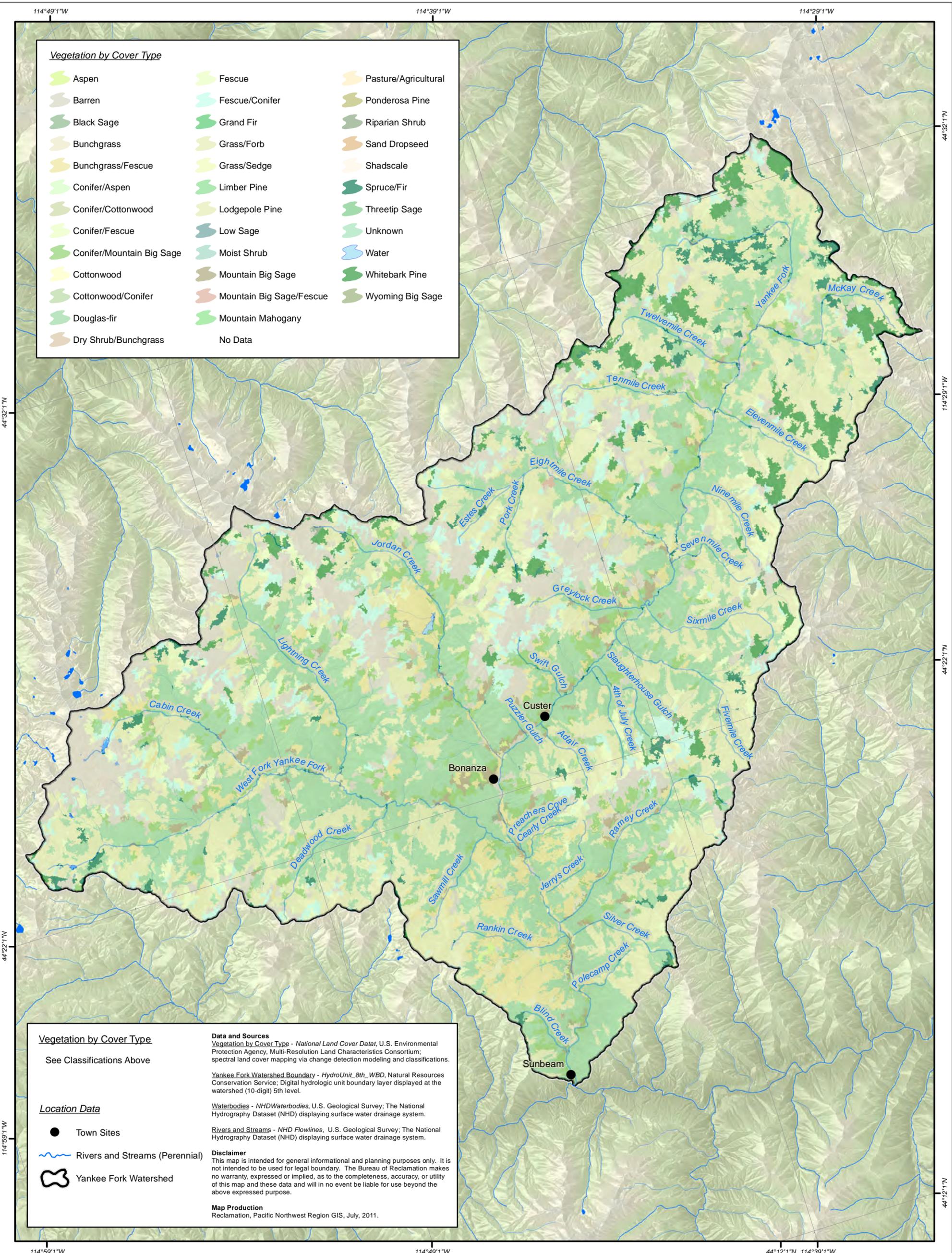
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Subwatersheds

Map 15



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Vegetation by Cover Type

Aspen	Fescue	Pasture/Agricultural
Barren	Fescue/Conifer	Ponderosa Pine
Black Sage	Grand Fir	Riparian Shrub
Bunchgrass	Grass/Forb	Sand Dropseed
Bunchgrass/Fescue	Grass/Sedge	Shadscale
Conifer/Aspen	Limber Pine	Spruce/Fir
Conifer/Cottonwood	Lodgepole Pine	Threetip Sage
Conifer/Fescue	Low Sage	Unknown
Conifer/Mountain Big Sage	Moist Shrub	Water
Cottonwood	Mountain Big Sage	Whitebark Pine
Cottonwood/Conifer	Mountain Big Sage/Fescue	Wyoming Big Sage
Douglas-fir	Mountain Mahogany	
Dry Shrub/Bunchgrass	No Data	

Vegetation by Cover Type
See Classifications Above

Location Data

- Town Sites
- ~ Rivers and Streams (Perennial)
- ⬮ Yankee Fork Watershed

Data and Sources
Vegetation by Cover Type - National Land Cover Data, U.S. Environmental Protection Agency, Multi-Resolution Land Characteristics Consortium; spectral land cover mapping via change detection modeling and classifications.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

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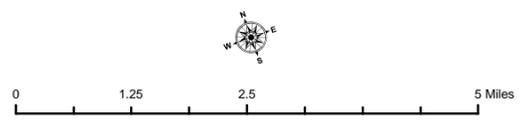
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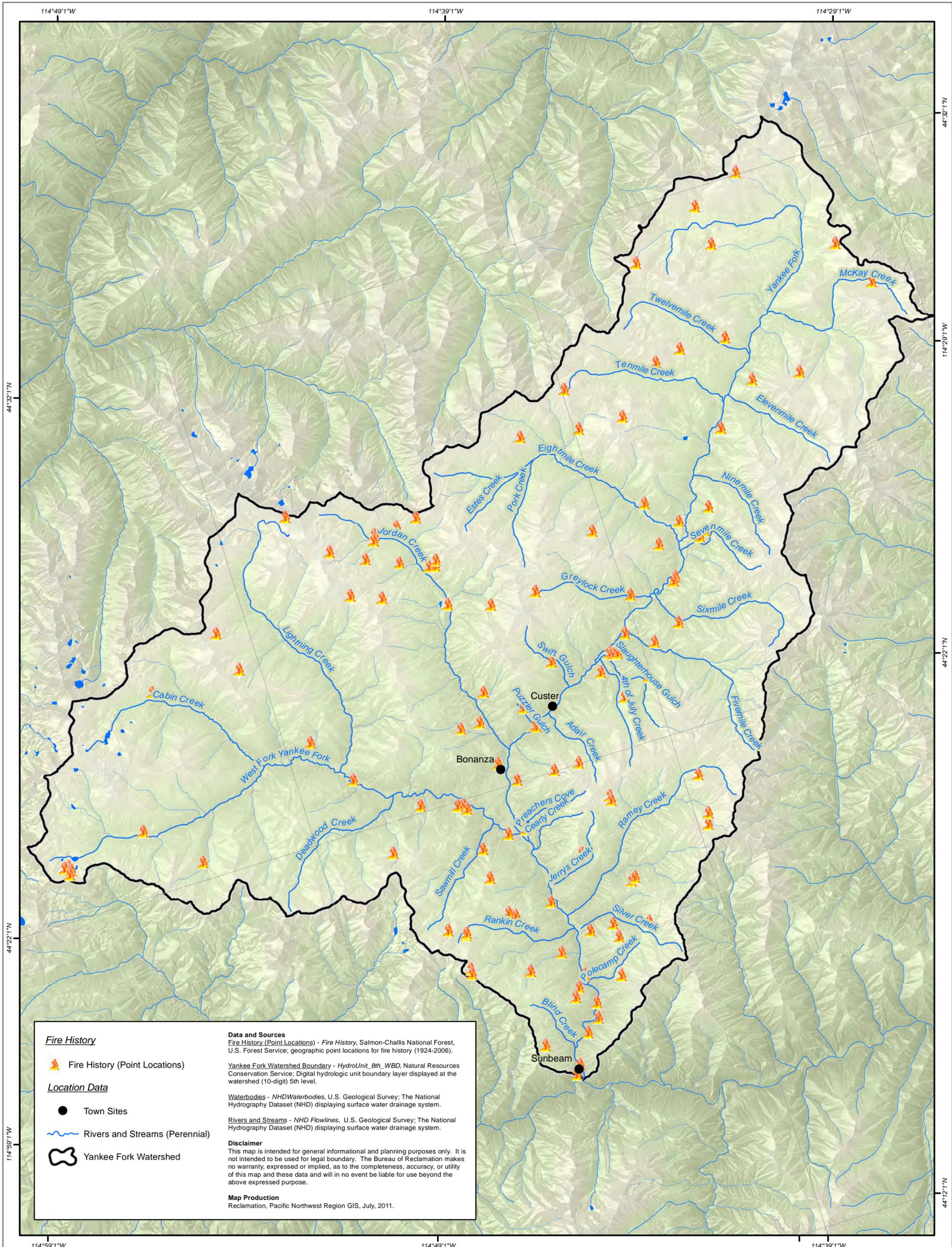
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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**



Vegetation by Cover Type

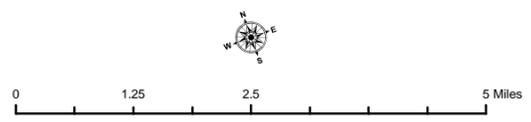


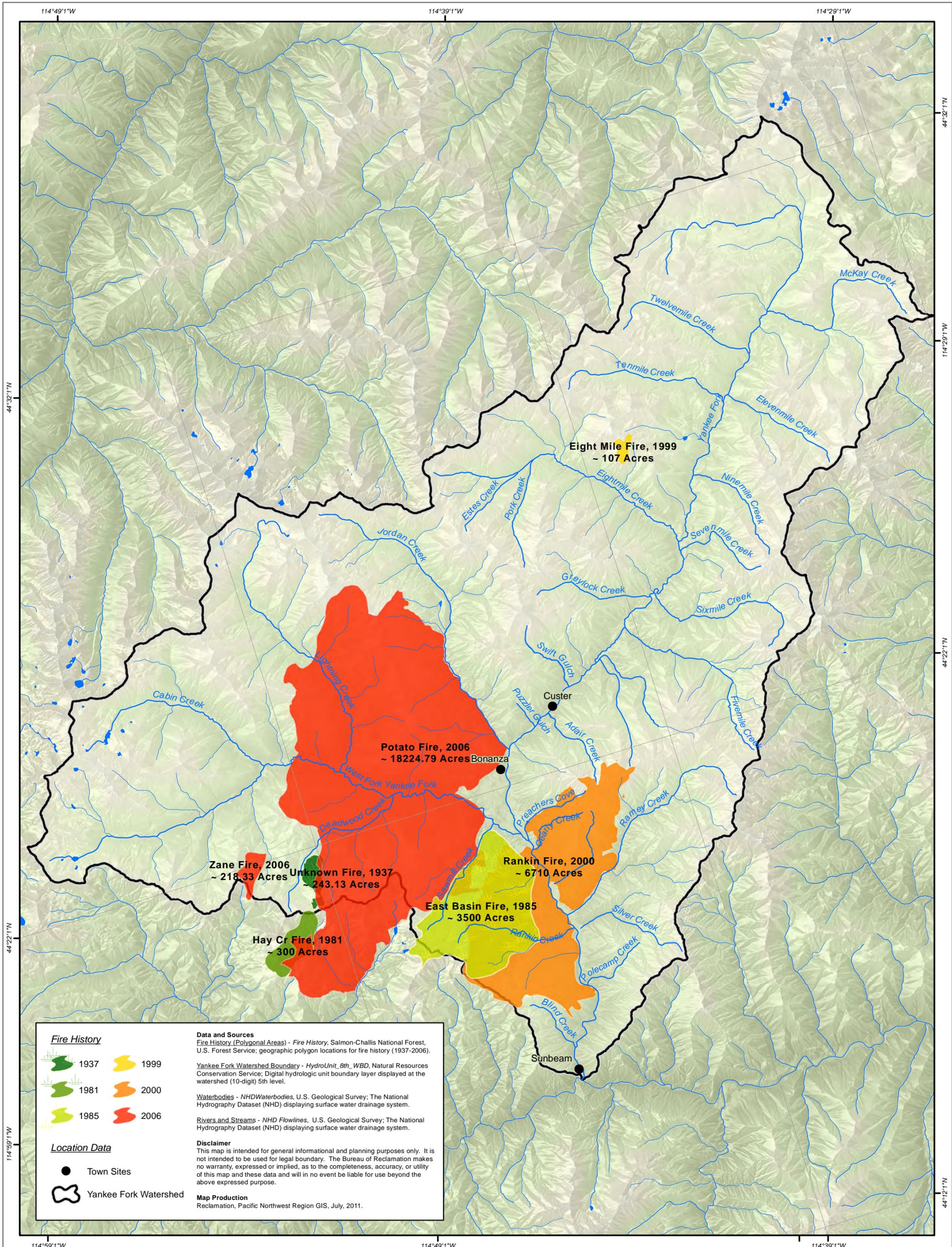


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

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Fire History (Point Locations)





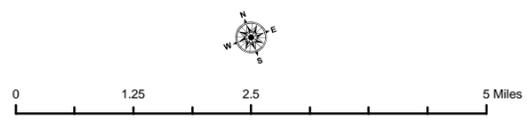
Fire History		Data and Sources Fire History (Polygonal Areas) - Fire History, Salmon-Challis National Forest, U.S. Forest Service; geographic polygon locations for fire history (1937-2006). Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level. Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system. Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.
1937	1999	
1981	2000	Disclaimer This map is intended for general informational and planning purposes only. It is not intended to be used for legal boundary. The Bureau of Reclamation makes no warranty, expressed or implied, as to the completeness, accuracy, or utility of this map and these data and will in no event be liable for use beyond the above expressed purpose. Map Production Reclamation, Pacific Northwest Region GIS, July, 2011.
1985	2006	
Location Data		
	Town Sites	
	Yankee Fork Watershed	

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

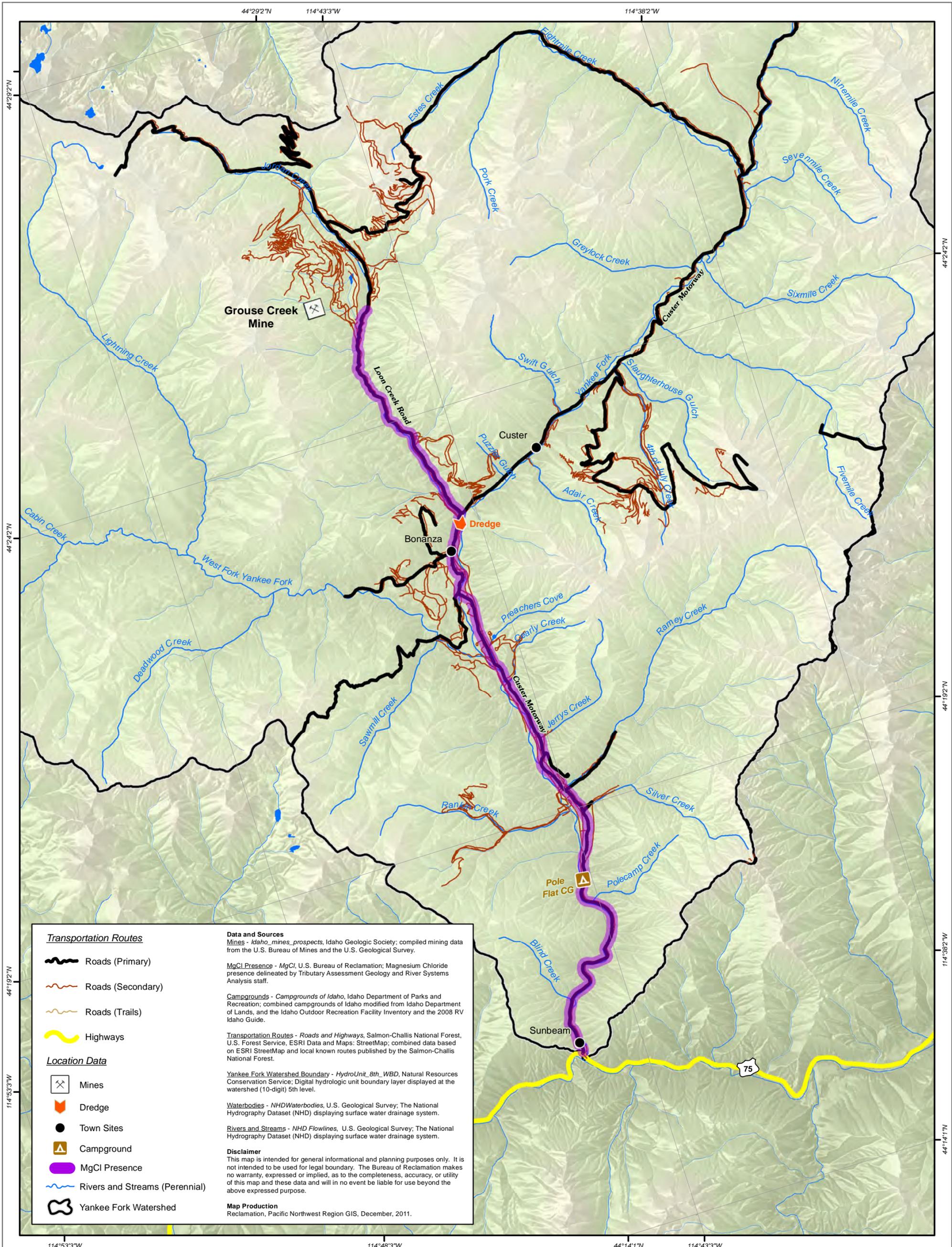
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Fire History

Map 18



July, 2011



Transportation Routes

- Roads (Primary)
- Roads (Secondary)
- Roads (Trails)
- Highways

Location Data

- Mines
- Dredge
- Town Sites
- Campground
- MgCl Presence
- Rivers and Streams (Perennial)
- Yankee Fork Watershed

Data and Sources

Mines - Idaho_mines_prospects, Idaho Geologic Society; compiled mining data from the U.S. Bureau of Mines and the U.S. Geological Survey.

MgCl Presence - MgCl, U.S. Bureau of Reclamation; Magnesium Chloride presence delineated by Tributary Assessment Geology and River Systems Analysis staff.

Campgrounds - Campgrounds of Idaho, Idaho Department of Parks and Recreation; combined campgrounds of Idaho modified from Idaho Department of Lands, and the Idaho Outdoor Recreation Facility Inventory and the 2008 RV Idaho Guide.

Transportation Routes - Roads and Highways, Salmon-Challis National Forest, U.S. Forest Service, ESRI Data and Maps: StreetMap; combined data based on ESRI StreetMap and local known routes published by the Salmon-Challis National Forest.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHDFlowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

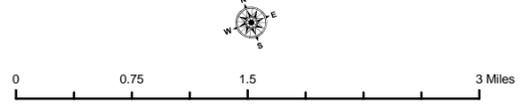
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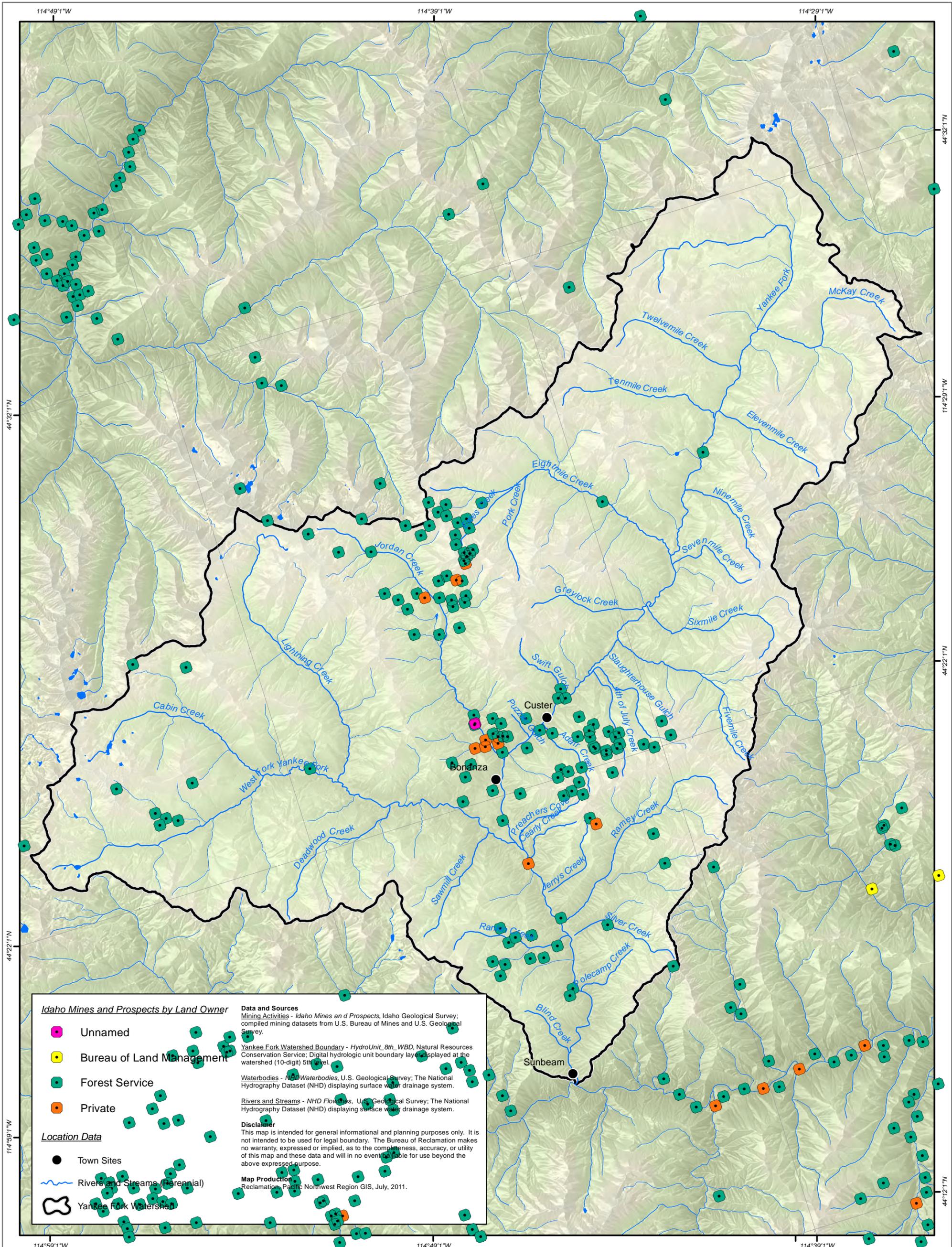
Map Production
Reclamation, Pacific Northwest Region GIS, December, 2011.

Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Roads and Magnesium Chloride Application

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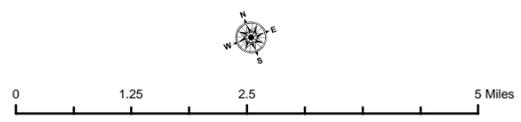
**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

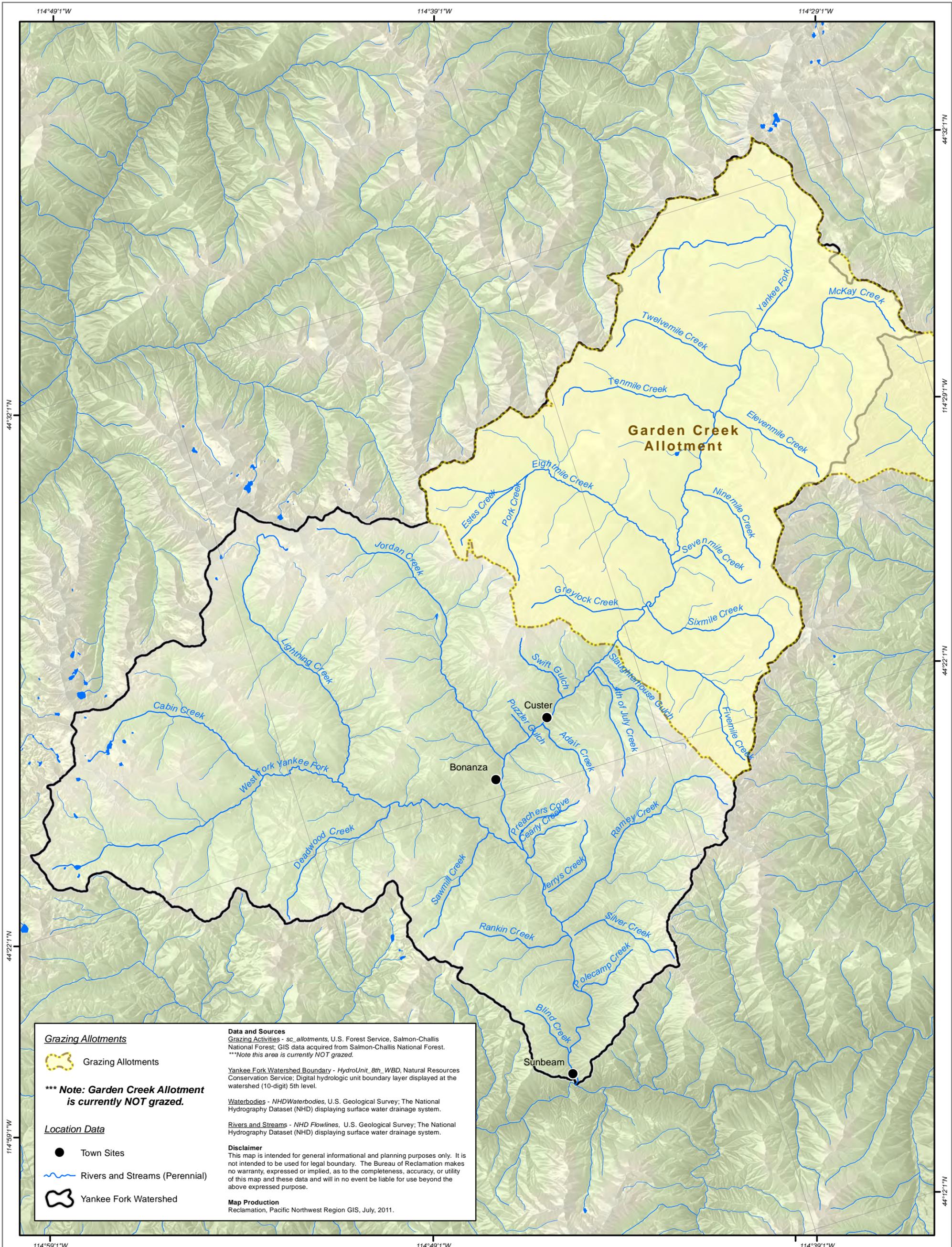
Mining Activities

Map 20

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Managing Water in the West

July, 2011





Grazing Allotments

Grazing Allotments

***** Note: Garden Creek Allotment is currently NOT grazed.**

Location Data

Town Sites

Rivers and Streams (Perennial)

Yankee Fork Watershed

Data and Sources
 Grazing Activities - sc_allotments, U.S. Forest Service, Salmon-Challis National Forest; GIS data acquired from Salmon-Challis National Forest.
 ***Note this area is currently NOT grazed.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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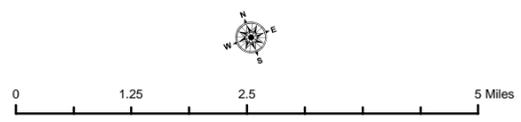
Map Production
 Reclamation, Pacific Northwest Region GIS, July, 2011.

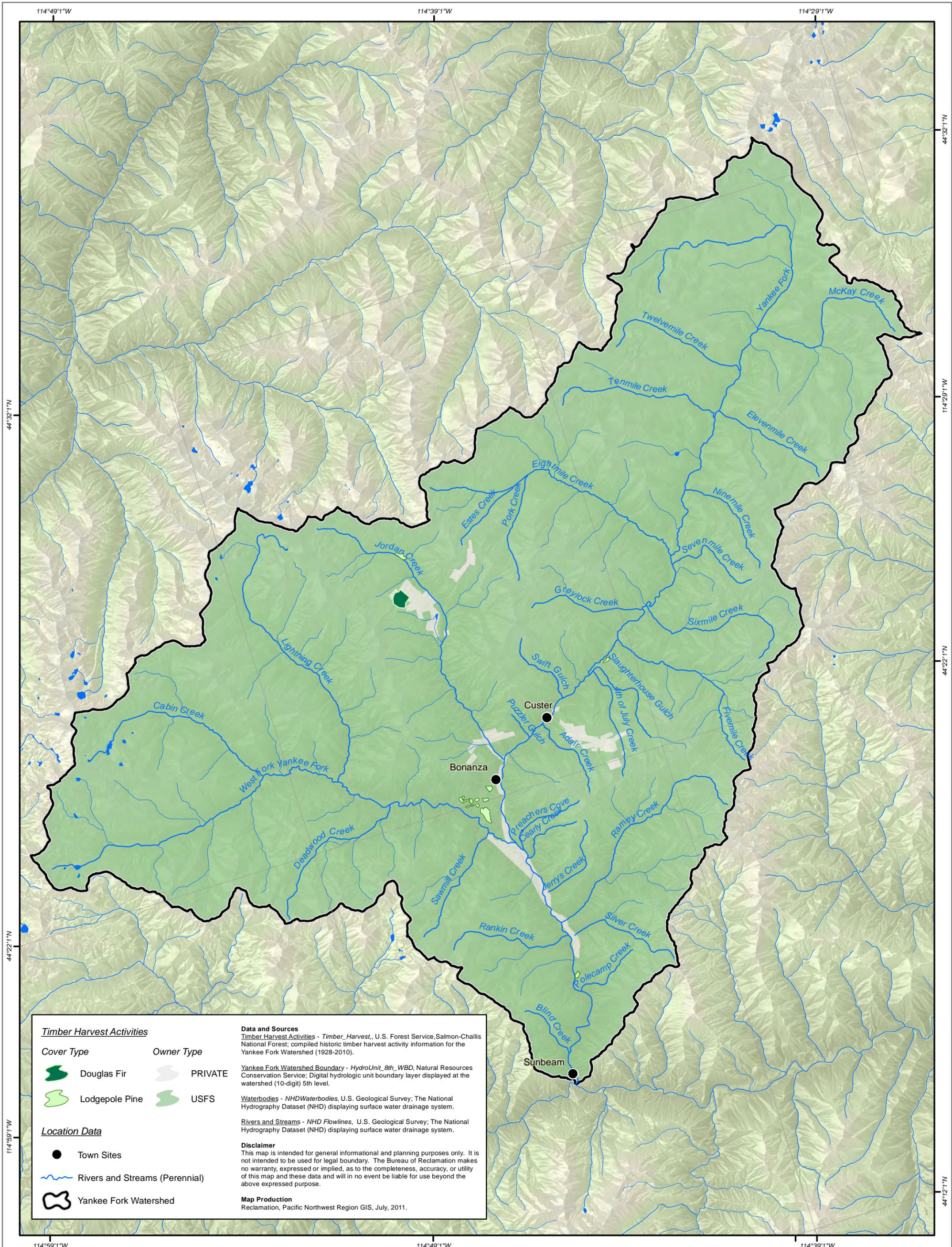
**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

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Managing Water in the West

Grazing Activities

Note: There are currently no grazing activities within the Yankee Fork Watershed.



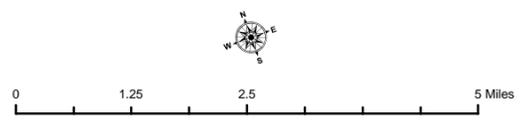


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

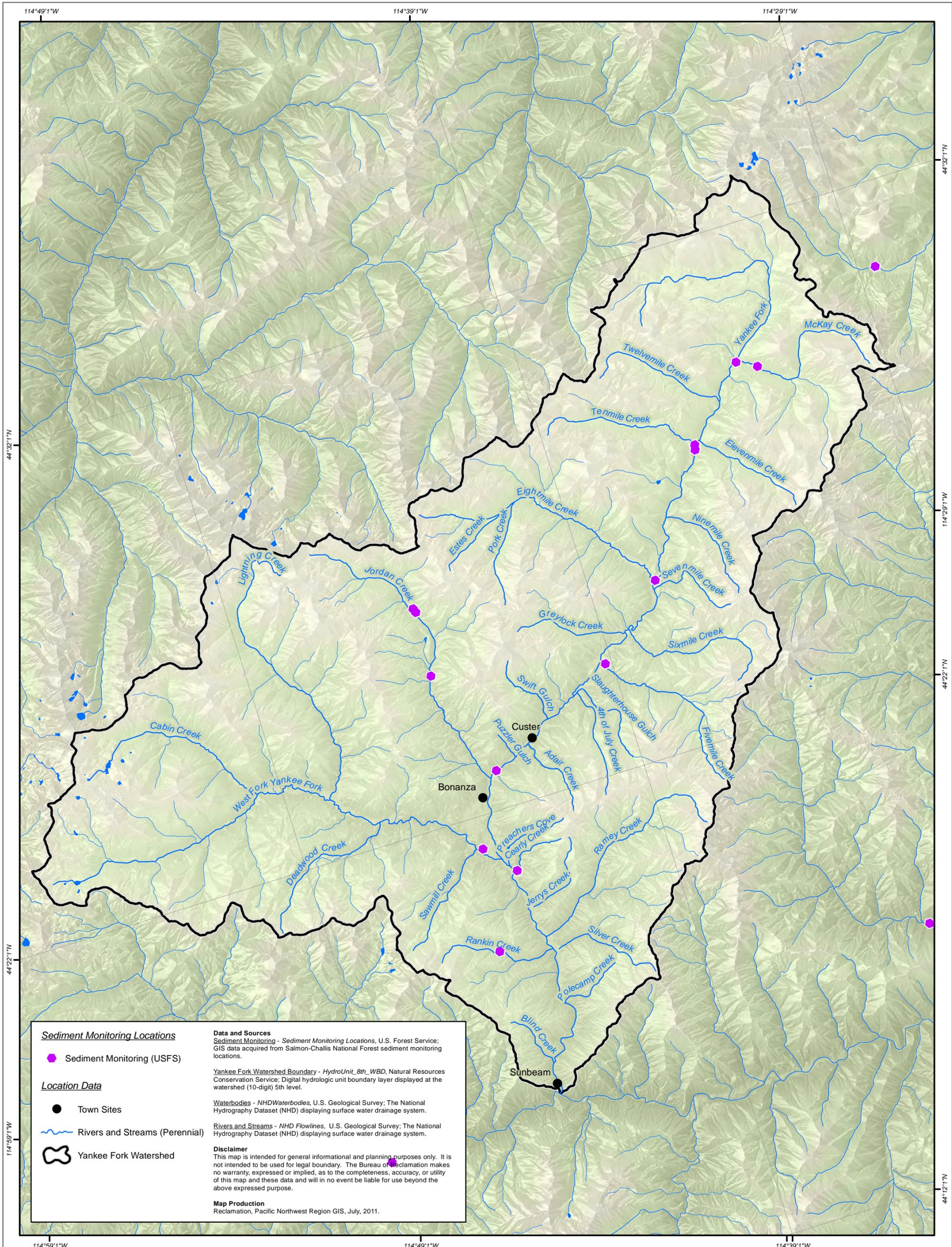
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Timber Harvest Activity

Map 22



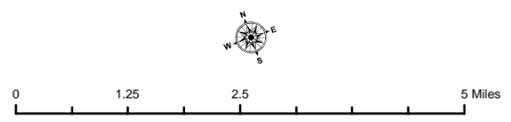
July, 2011

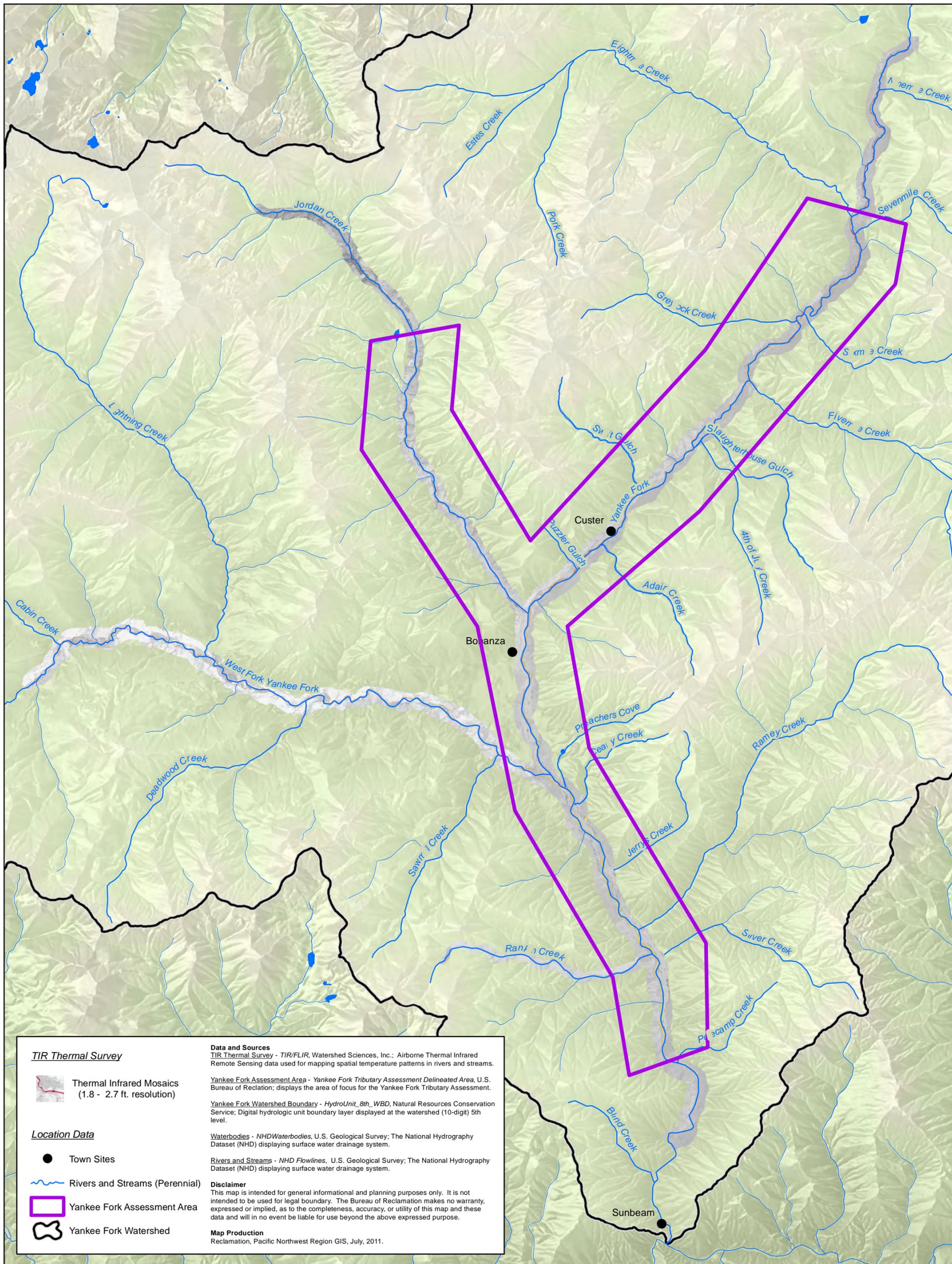


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

US Forest Service Sediment Monitoring Locations

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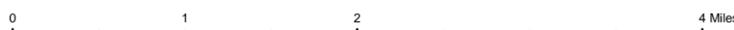


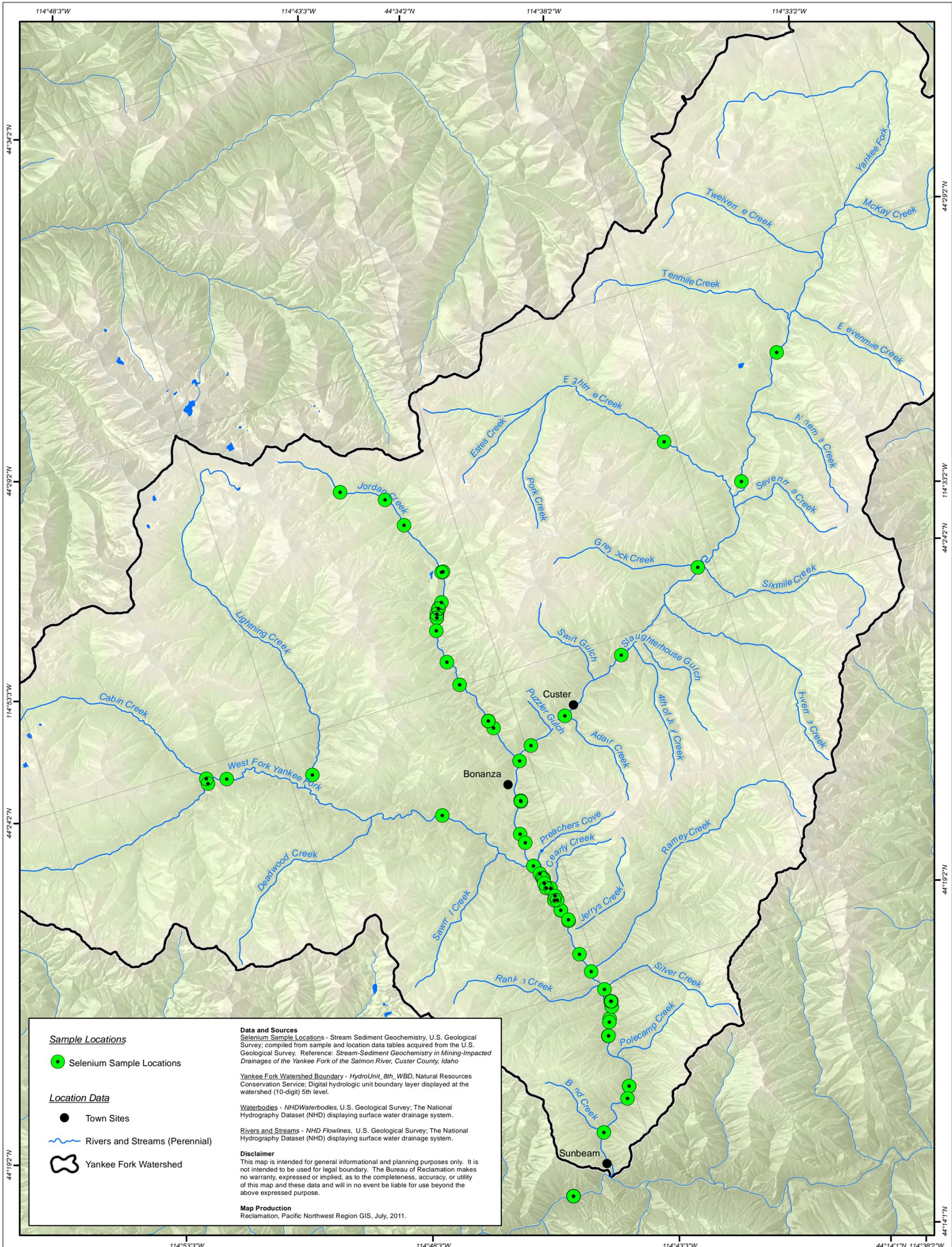


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Thermal Infrared (TIR) Mosaics





Sample Locations

● Selenium Sample Locations

Location Data

● Town Sites

~ Rivers and Streams (Perennial)

⬭ Yankee Fork Watershed

Data and Sources

Selenium Sample Locations - Stream Sediment Geochemistry, U.S. Geological Survey; compiled from sample and location data tables acquired from the U.S. Geological Survey. Reference: *Stream-Sediment Geochemistry in Mining-Impacted Drainages of the Yankee Fork of the Salmon River, Custer County, Idaho*

Yankee Fork Watershed Boundary - *HydroUnit_8th_WBD*, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - *NHDWaterbodies*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - *NHD Flowlines*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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Map Production

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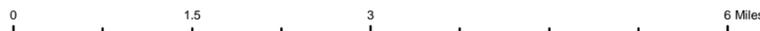
**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

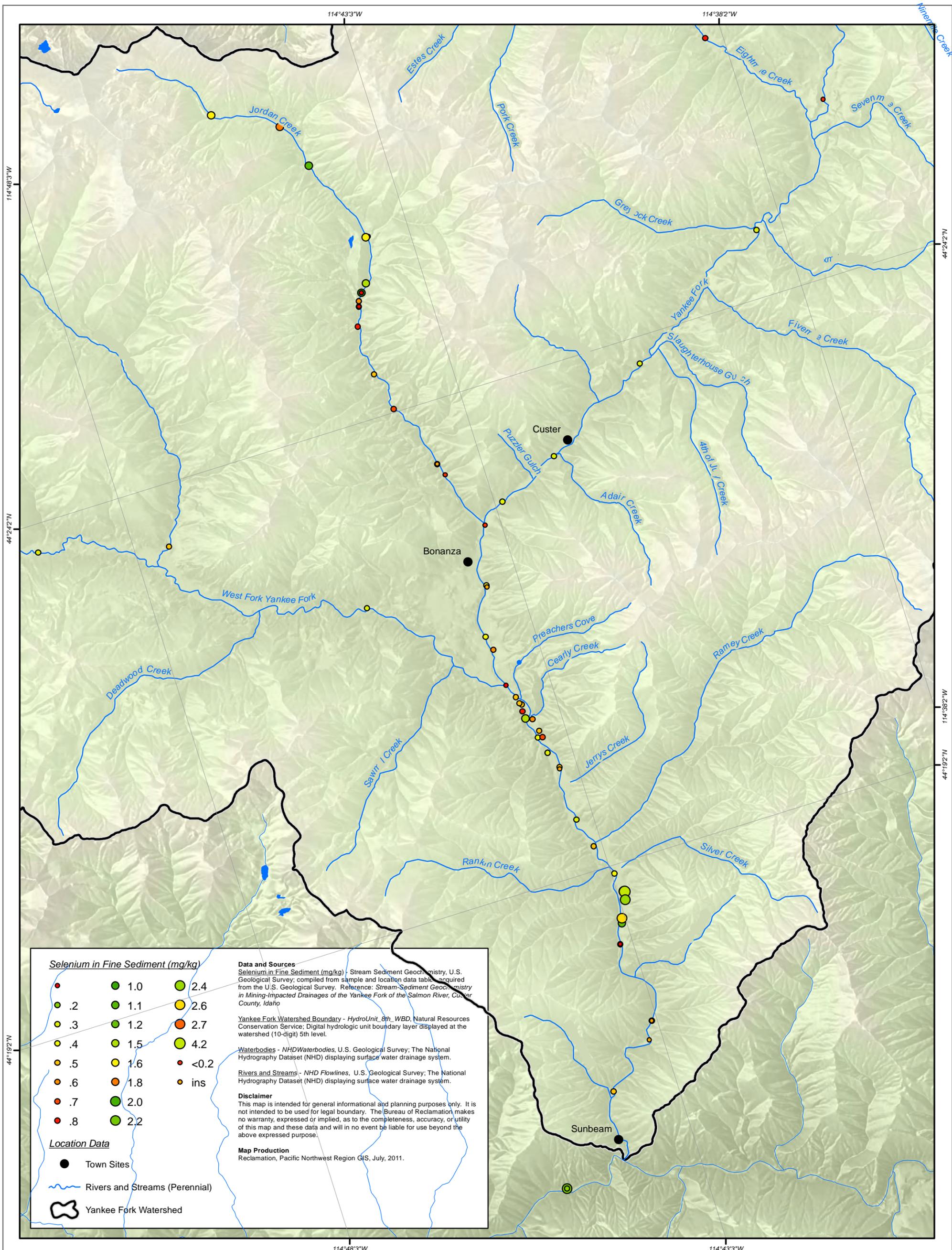
Selenium Sample Locations

Map 26

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Managing Water in the West

July, 2011

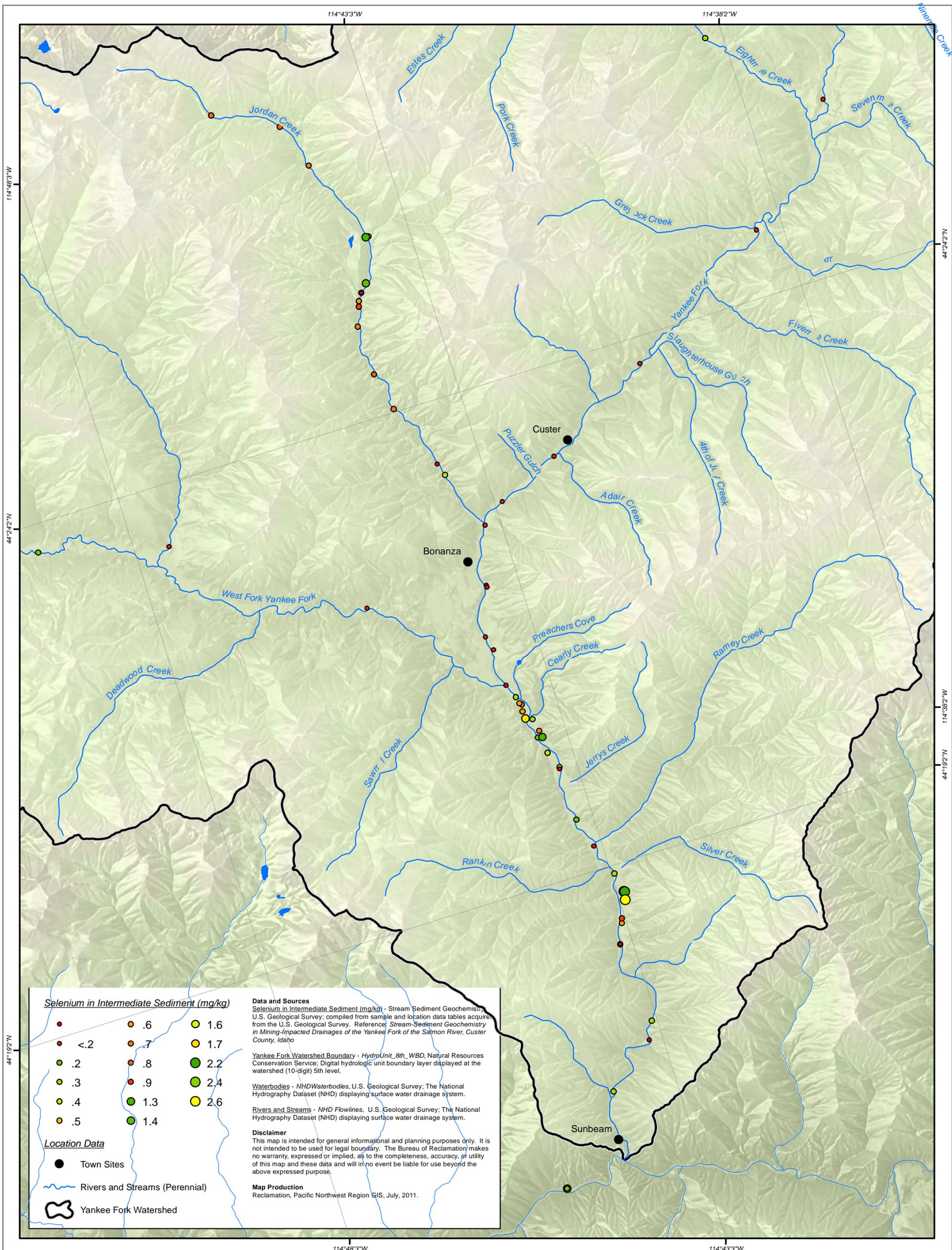




Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Selenium Concentration in Fine Sediment

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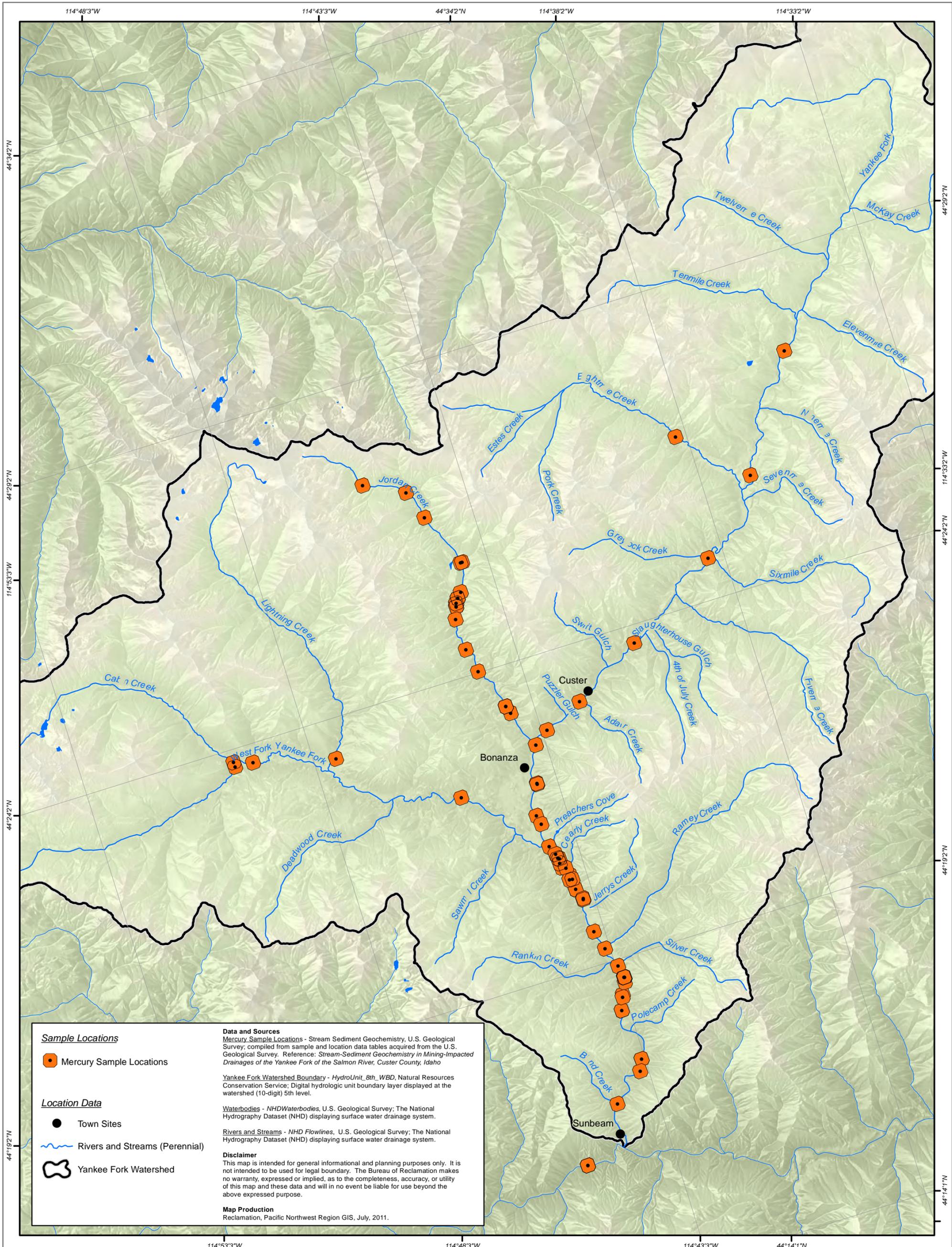


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Selenium Concentration in Intermediate Sediment





Sample Locations

- Mercury Sample Locations

Location Data

- Town Sites
- Rivers and Streams (Perennial)
- Yankee Fork Watershed

Data and Sources
 Mercury Sample Locations - Stream Sediment Geochemistry, U.S. Geological Survey; compiled from sample and location data tables acquired from the U.S. Geological Survey. Reference: *Stream-Sediment Geochemistry in Mining-Impacted Drainages of the Yankee Fork of the Salmon River, Custer County, Idaho*

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

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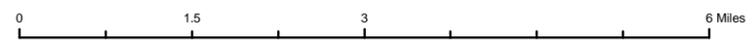
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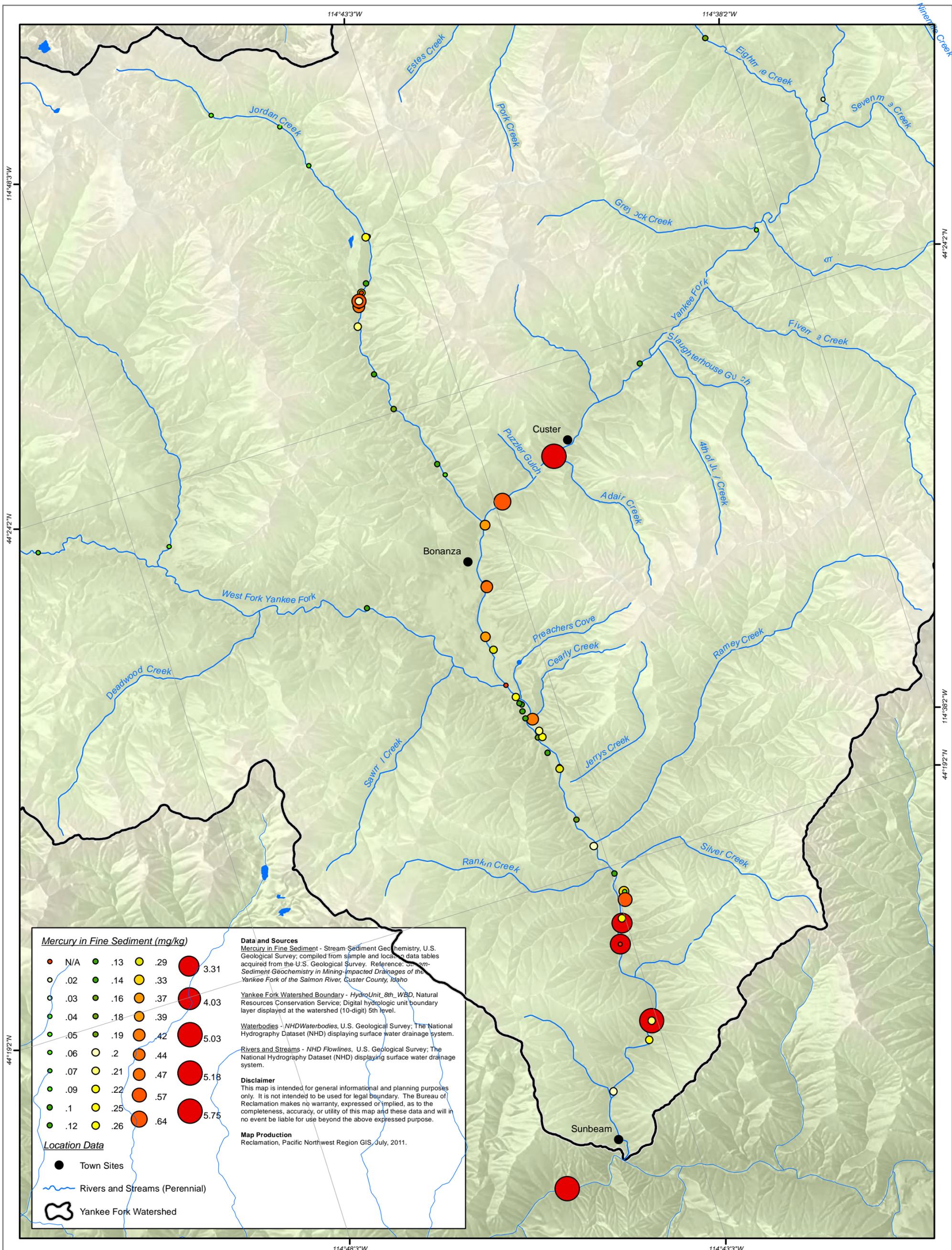
Map Production
 Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

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Mercury Sample Locations





Mercury in Fine Sediment (mg/kg)

● N/A	● .13	● .29	● 3.31
○ .02	● .14	● .33	● 4.03
○ .03	● .16	● .37	● 5.03
○ .04	● .18	● .39	● 5.18
○ .05	● .19	● .42	● 5.75
○ .06	○ .2	● .44	
○ .07	○ .21	● .47	
○ .09	○ .22	● .57	
○ .1	○ .25	● .64	
○ .12	○ .26		

Data and Sources
 Mercury in Fine Sediment - Stream Sediment Geochemistry, U.S. Geological Survey; compiled from sample and location data tables acquired from the U.S. Geological Survey. Reference: *Stream Sediment Geochemistry in Mining-Impacted Drainages of the Yankee Fork of the Salmon River, Custer County, Idaho*

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

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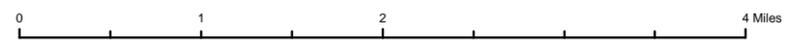
Map Production
 Reclamation, Pacific Northwest Region GIS July, 2011.

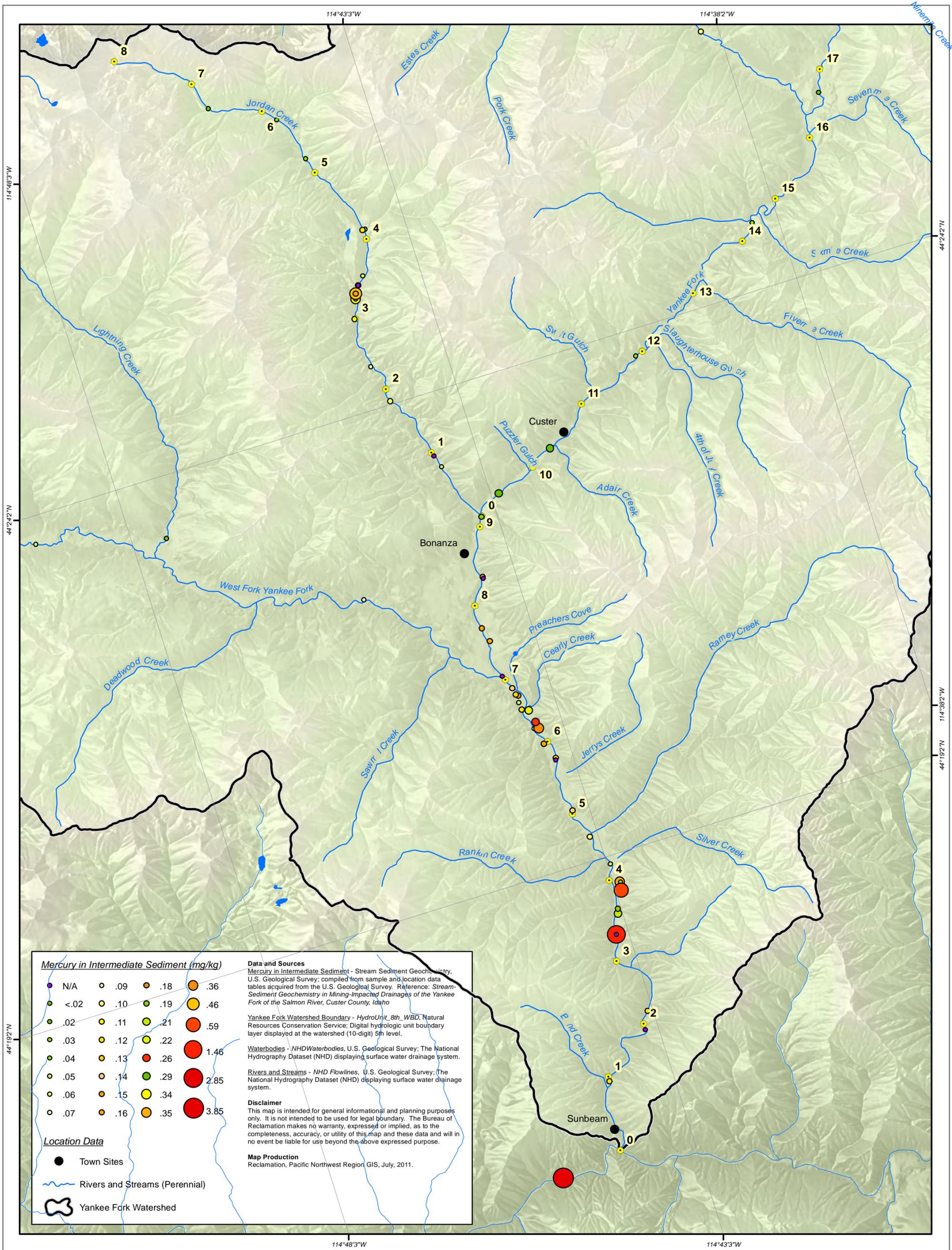
- Location Data**
- Town Sites
 - Rivers and Streams (Perennial)
 - ⬭ Yankee Fork Watershed

**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

Mercury Concentration in Fine Sediment

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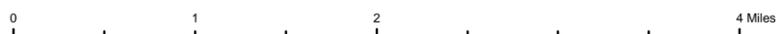


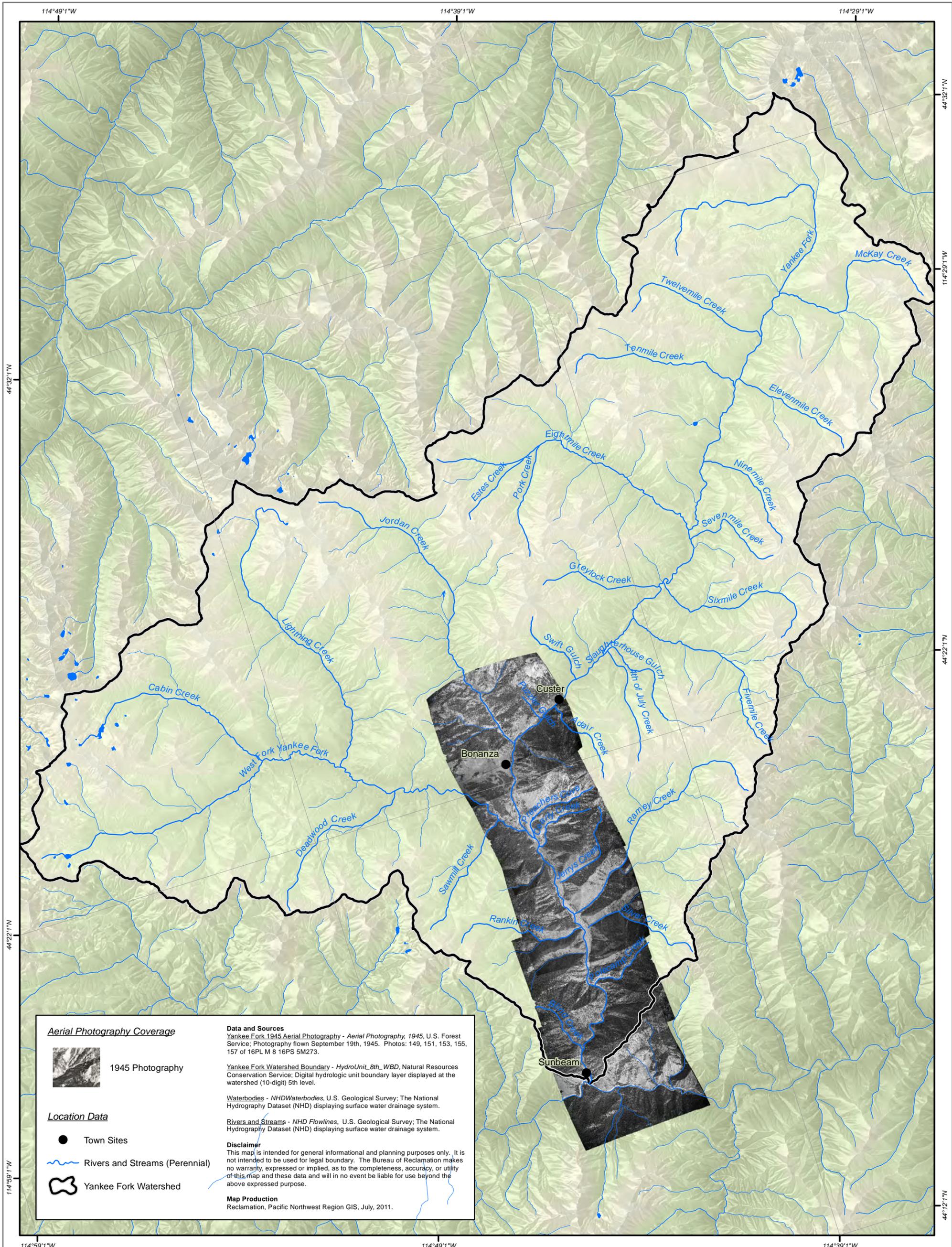


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

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Mercury Concentration in Intermediate Sediment





Aerial Photography Coverage

1945 Photography

Location Data

- Town Sites
- Rivers and Streams (Perennial)
- Yankee Fork Watershed

Data and Sources

Yankee Fork 1945 Aerial Photography - Aerial Photography, 1945, U.S. Forest Service; Photography flown September 19th, 1945. Photos: 149, 151, 153, 155, 157 of 16PL M 8 16PS 5M273.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

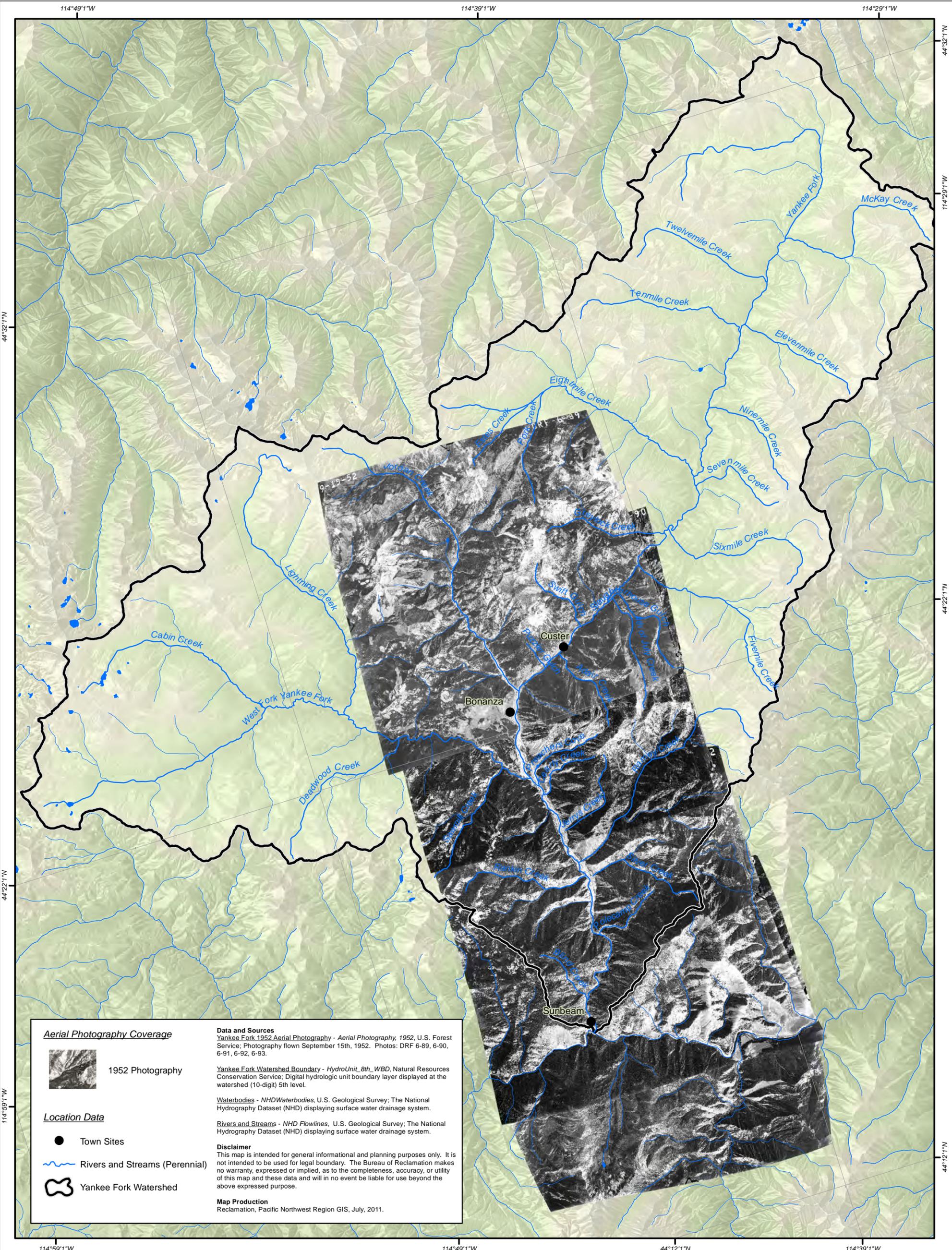
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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Aerial Photography Coverage ~ 1945

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Aerial Photography Coverage



1952 Photography

Location Data



Town Sites

Rivers and Streams (Perennial)



Yankee Fork Watershed

Data and Sources

Yankee Fork 1952 Aerial Photography - Aerial Photography, 1952, U.S. Forest Service; Photography flown September 15th, 1952. Photos: DRF 6-89, 6-90, 6-91, 6-92, 6-93.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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Disclaimer

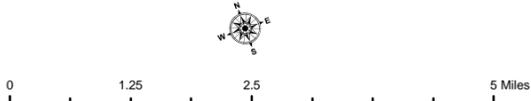
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Map Production

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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Aerial Photography Coverage ~ 1952



114°49'1"W

114°39'1"W

114°29'1"W

44°32'1"N

44°32'1"N

44°22'1"N

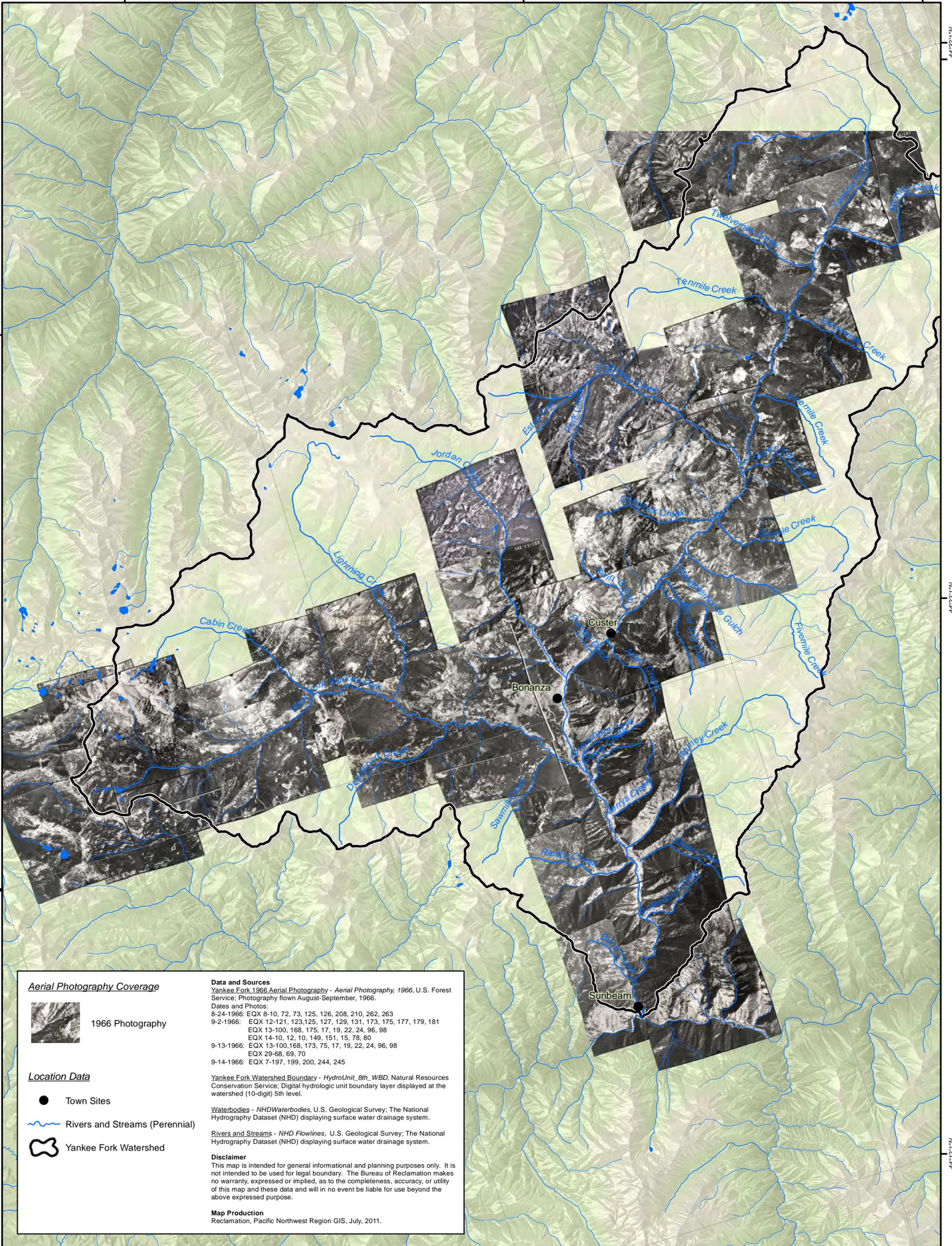
44°12'1"N

114°59'1"W

114°49'1"W

44°12'1"N

114°39'1"W



Aerial Photography Coverage



1966 Photography

Location Data

- Town Sites
- ~ Rivers and Streams (Perennial)
- ⬮ Yankee Fork Watershed

Data and Sources
Yankee Fork 1966 Aerial Photography - Aerial Photography, 1966, U.S. Forest Service; Photography flown August-September, 1966.

Dates and Photos:
 8-24-1966: EQX 8-10, 72, 73, 125, 126, 208, 210, 262, 263
 9-2-1966: EQX 12-121, 123, 125, 127, 129, 131, 173, 175, 177, 179, 181
 EQX 13-100, 168, 175, 17, 19, 22, 24, 96, 98
 EQX 14-10, 12, 10, 149, 151, 15, 78, 80
 9-13-1966: EQX 13-100, 168, 173, 75, 17, 19, 22, 24, 96, 98
 EQX 29-68, 69, 70
 9-14-1966: EQX 7-197, 199, 200, 244, 245

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

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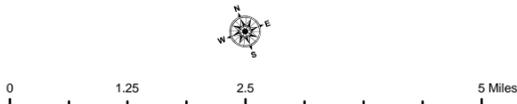
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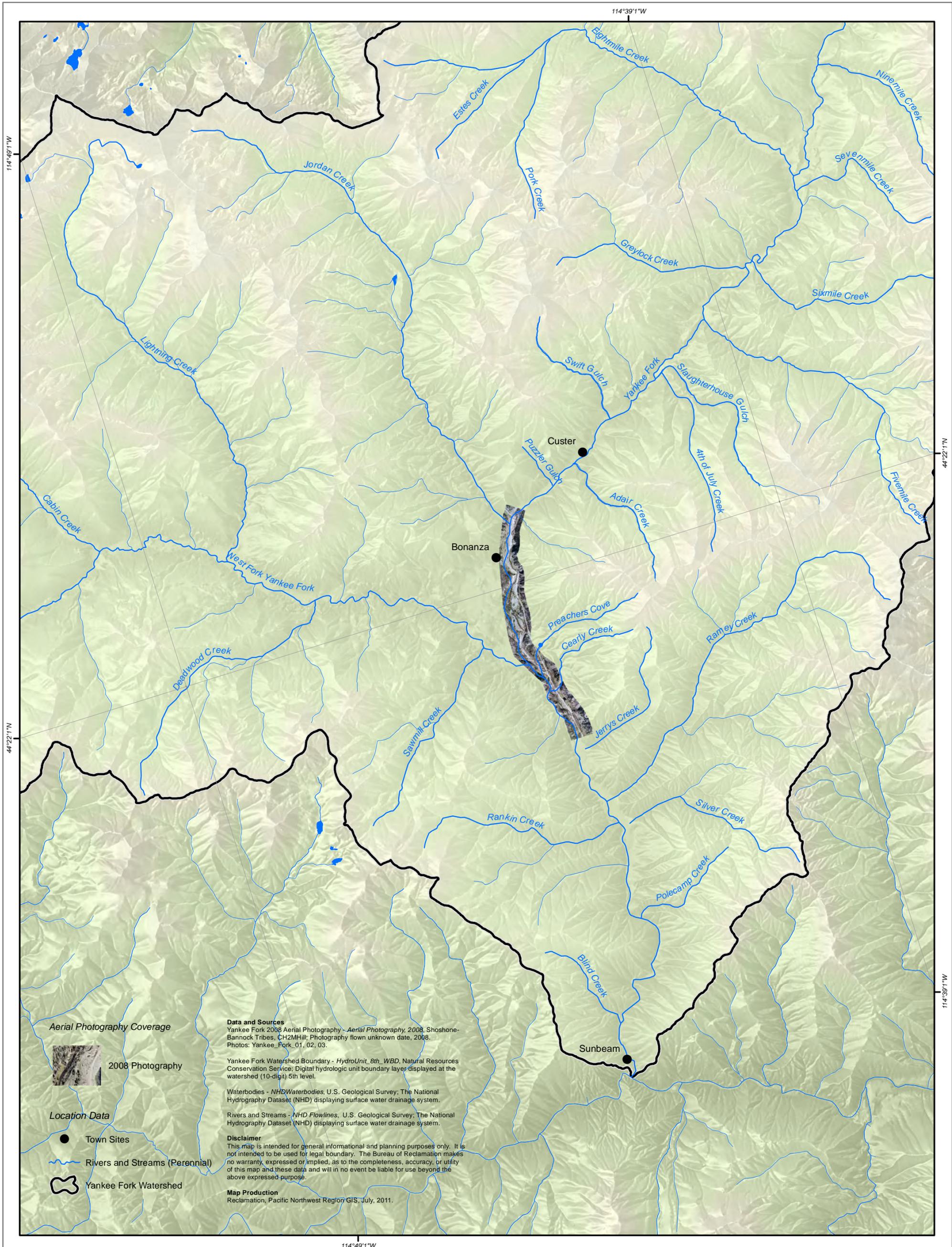
Map Production
Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Aerial Photography Coverage ~ 1966

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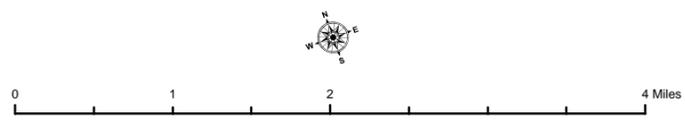


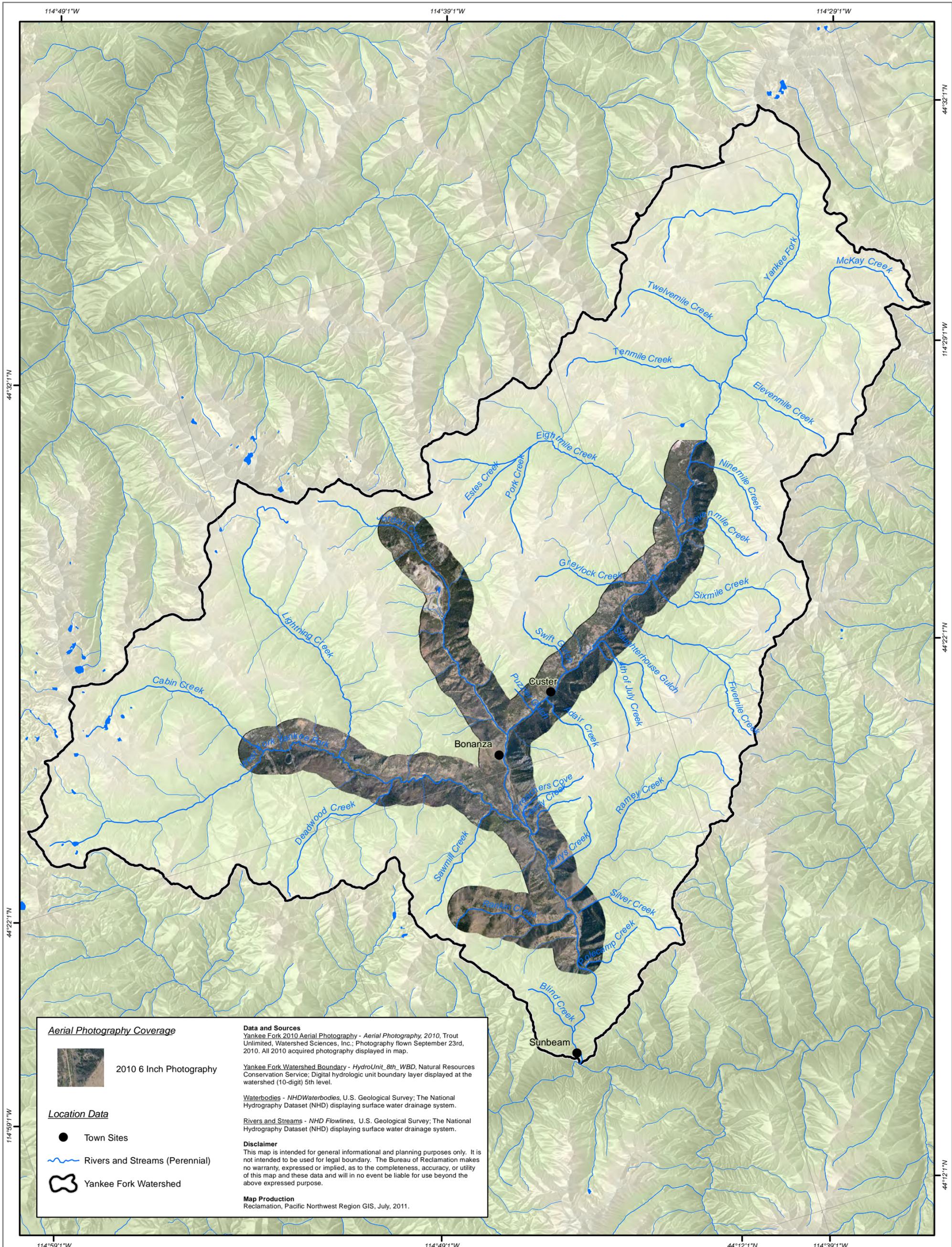


**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

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Aerial Photography Coverage ~ 2008





Aerial Photography Coverage

 2010 6 Inch Photography

Location Data

 Town Sites

 Rivers and Streams (Perennial)

 Yankee Fork Watershed

Data and Sources

Yankee Fork 2010 Aerial Photography - Aerial Photography, 2010, Trout Unlimited, Watershed Sciences, Inc.; Photography flown September 23rd, 2010. All 2010 acquired photography displayed in map.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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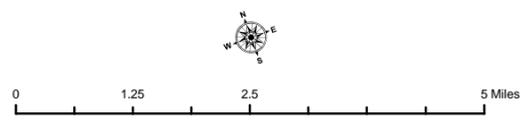
Map Production

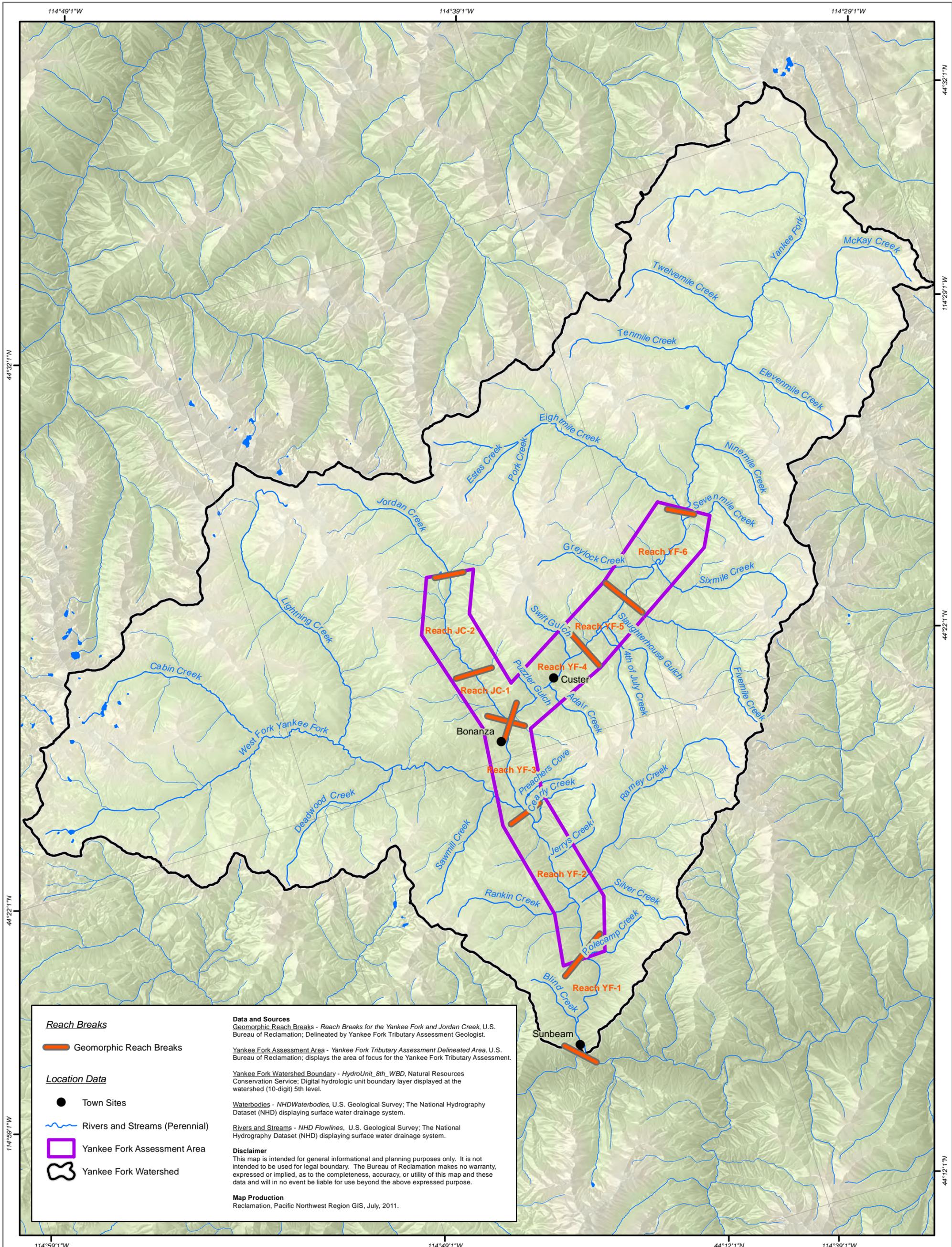
Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Aerial Photography Coverage ~ 2010

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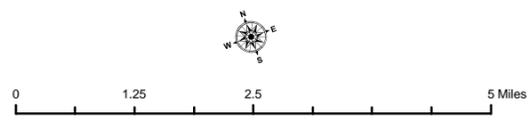


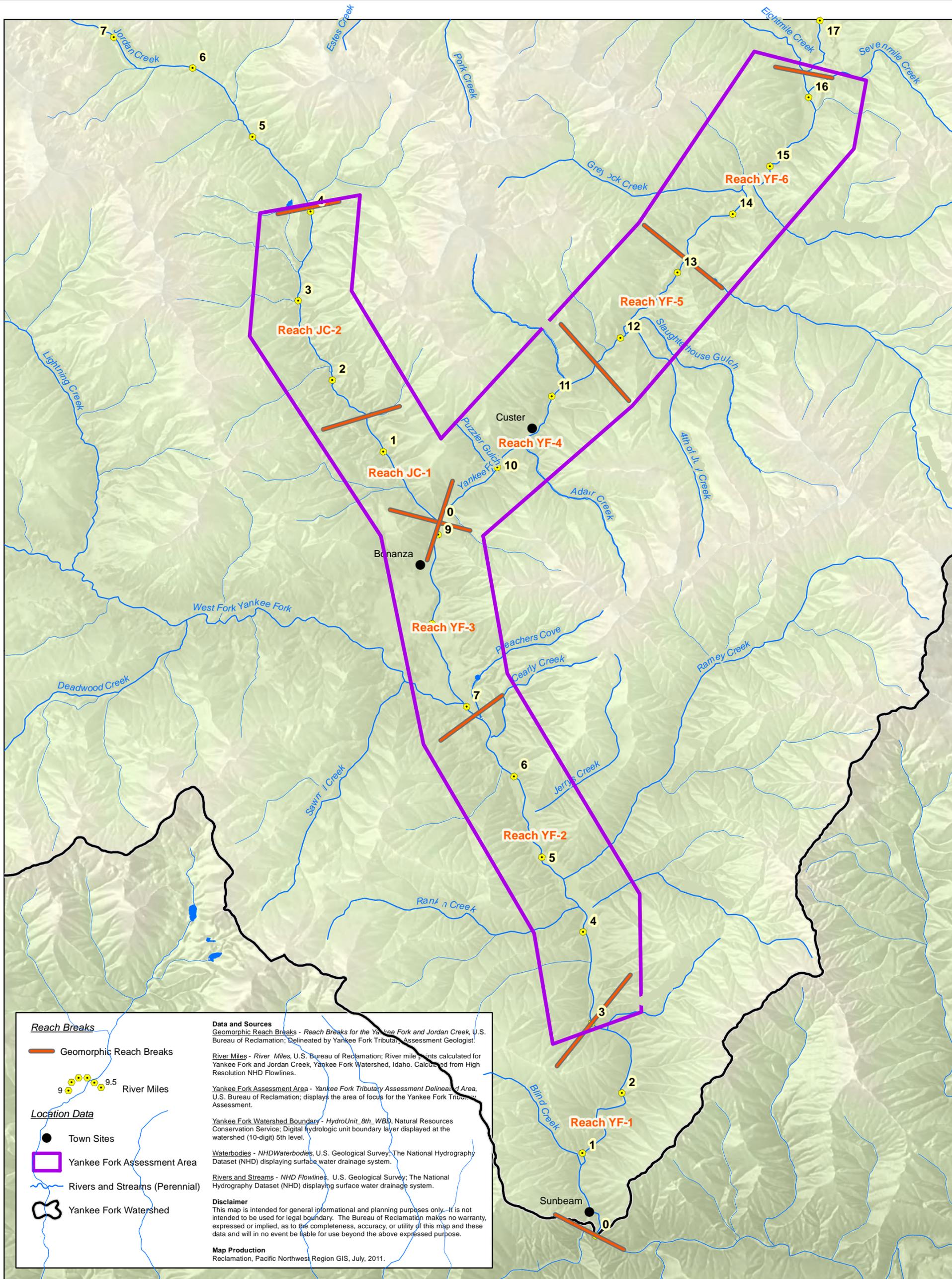


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Reach Breaks



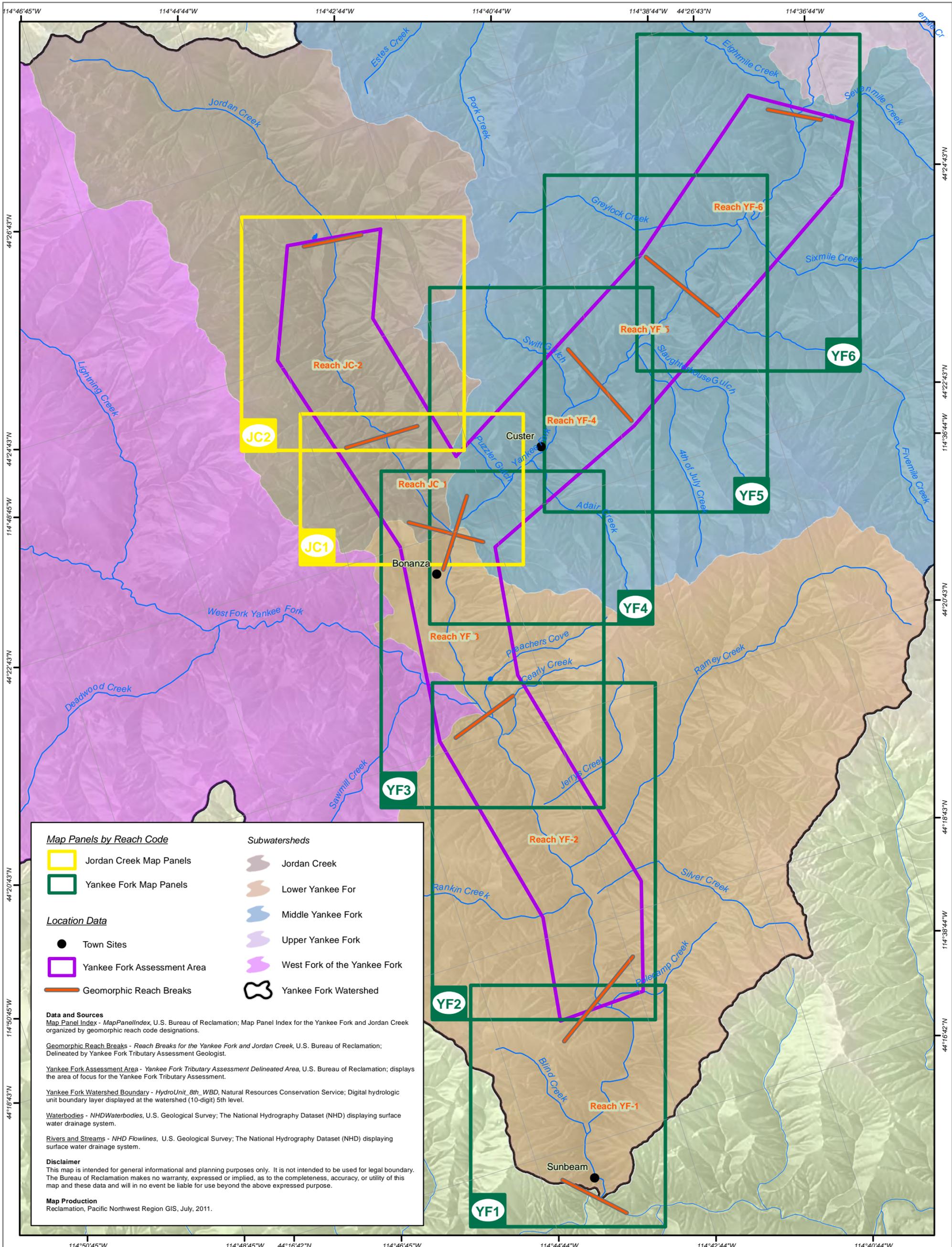


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Reach Breaks & River Miles

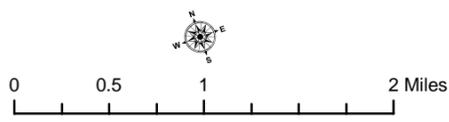


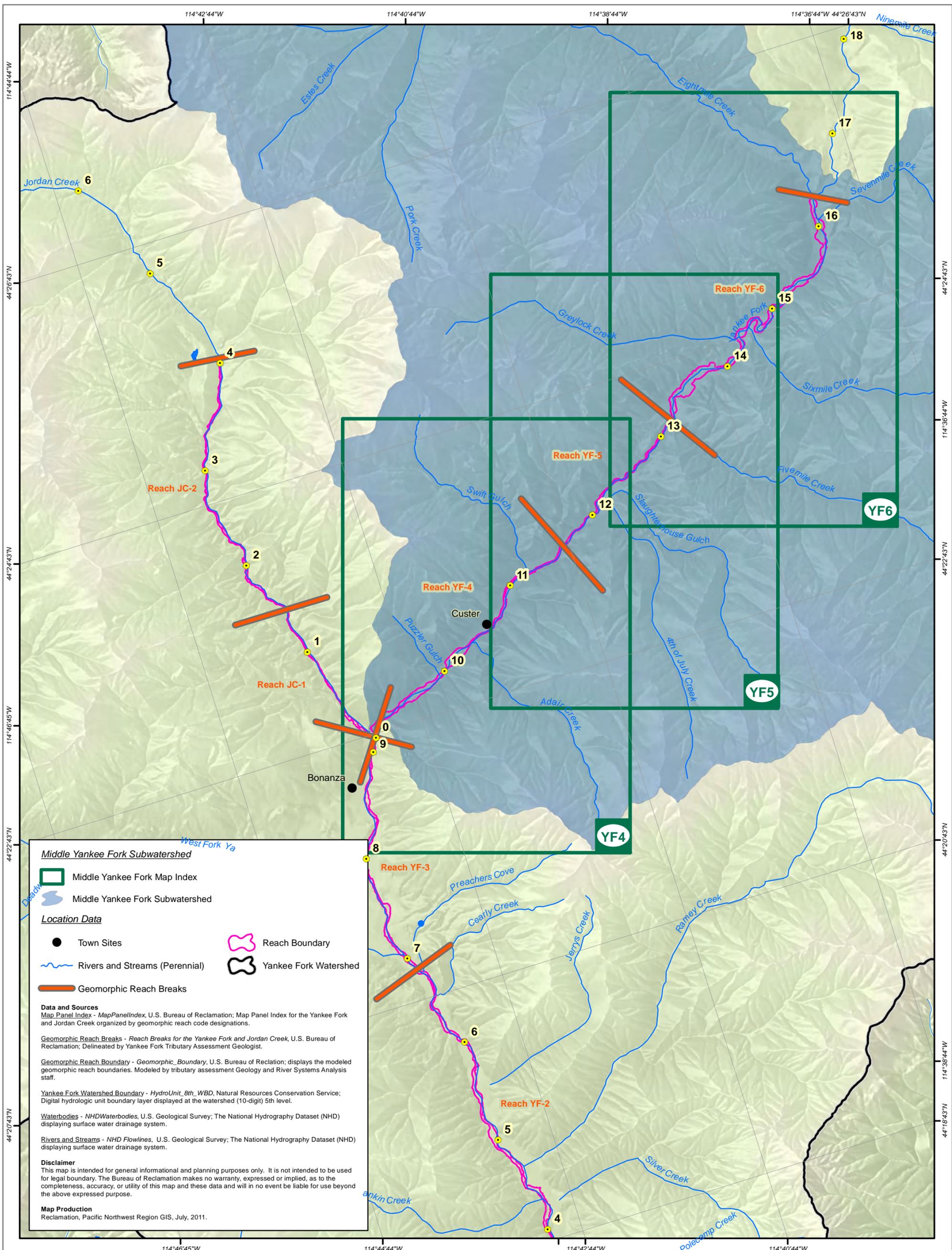


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Map Panel Index for Yankee Fork & Jordan Creek

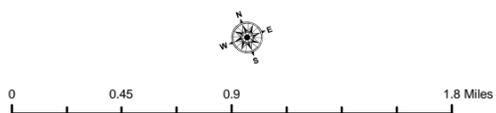


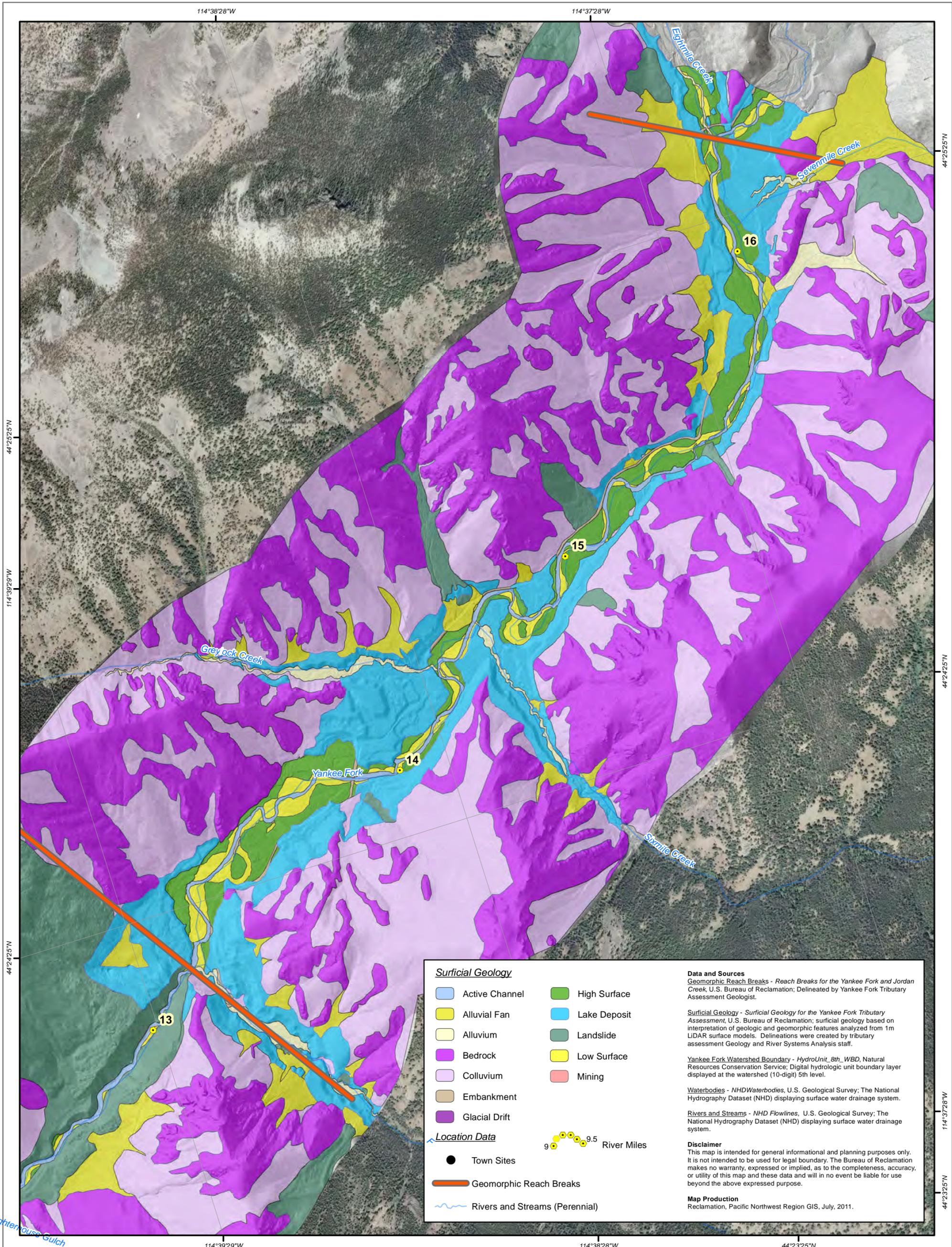


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Middle Yankee Fork Subwatershed Map Index

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Managing Water in the West





Surficial Geology

Active Channel	High Surface
Alluvial Fan	Lake Deposit
Alluvium	Landslide
Bedrock	Low Surface
Colluvium	Mining
Embankment	
Glacial Drift	

Location Data

- Town Sites
- Geomorphic Reach Breaks
- Rivers and Streams (Perennial)

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Surficial Geology - Surficial Geology for the Yankee Fork Tributary Assessment, U.S. Bureau of Reclamation; surficial geology based on interpretation of geologic and geomorphic features analyzed from 1m LIDAR surface models. Delineations were created by tributary assessment Geology and River Systems Analysis staff.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

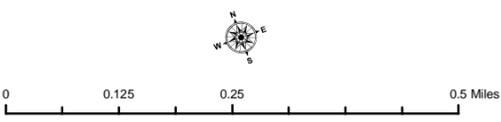
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Map Production
Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Middle Yankee Fork Surficial Geology - Panel YF6

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Managing Water in the West



114°38'28"W

114°37'28"W

Eightmile Creek

Sevenmile Creek

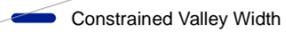
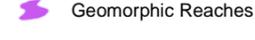
Graylock Creek

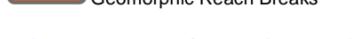
Yankee Fork

LiDAR 1m Bare Earth

Valley Characterization

Location Data

-  Valley Floor Width
-  Constrained Valley Width
-  Channel Widths
-  Geomorphic Reaches

-  Town Sites
-  Geomorphic Reach Breaks
-  Rivers and Streams (Perennial)

9 9.5 River Miles

Data and Sources

Geomorphic Reach Breaks - Reach Breaks or the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Geomorphic Reaches - Reaches_poly, U.S. Bureau of Reclamation; based on active channel, low surface, and high surface areas, hydrology, geomorphic constraints, geology and channel gradient. Created by tributary assessment Geology and River Systems Analysis staff.

Valley Floor Width - Valley_Floor_Widths, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Defined as measurements between valley walls. Created by tributary assessment Geology and River Systems Analysis staff.

Constrained Valley Width - ConValleyWidth, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Defined as area between geologic or geomorphic constrictions along the valley floor that restrict lateral channel migration. Created by tributary assessment Geology and River Systems Analysis staff.

Channel Widths - ChannelWidths, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Location of channel widths. Measurements between channel bank scarps. Created by tributary assessment Geology and River Systems Analysis staff.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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Map Production

Reclamation, Pacific Northwest Region GIS, July, 2011.

44°25'25"N

44°24'25"N

44°25'25"N

44°24'25"N

114°37'28"W

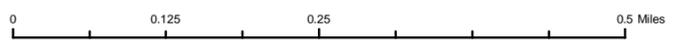
114°38'28"W

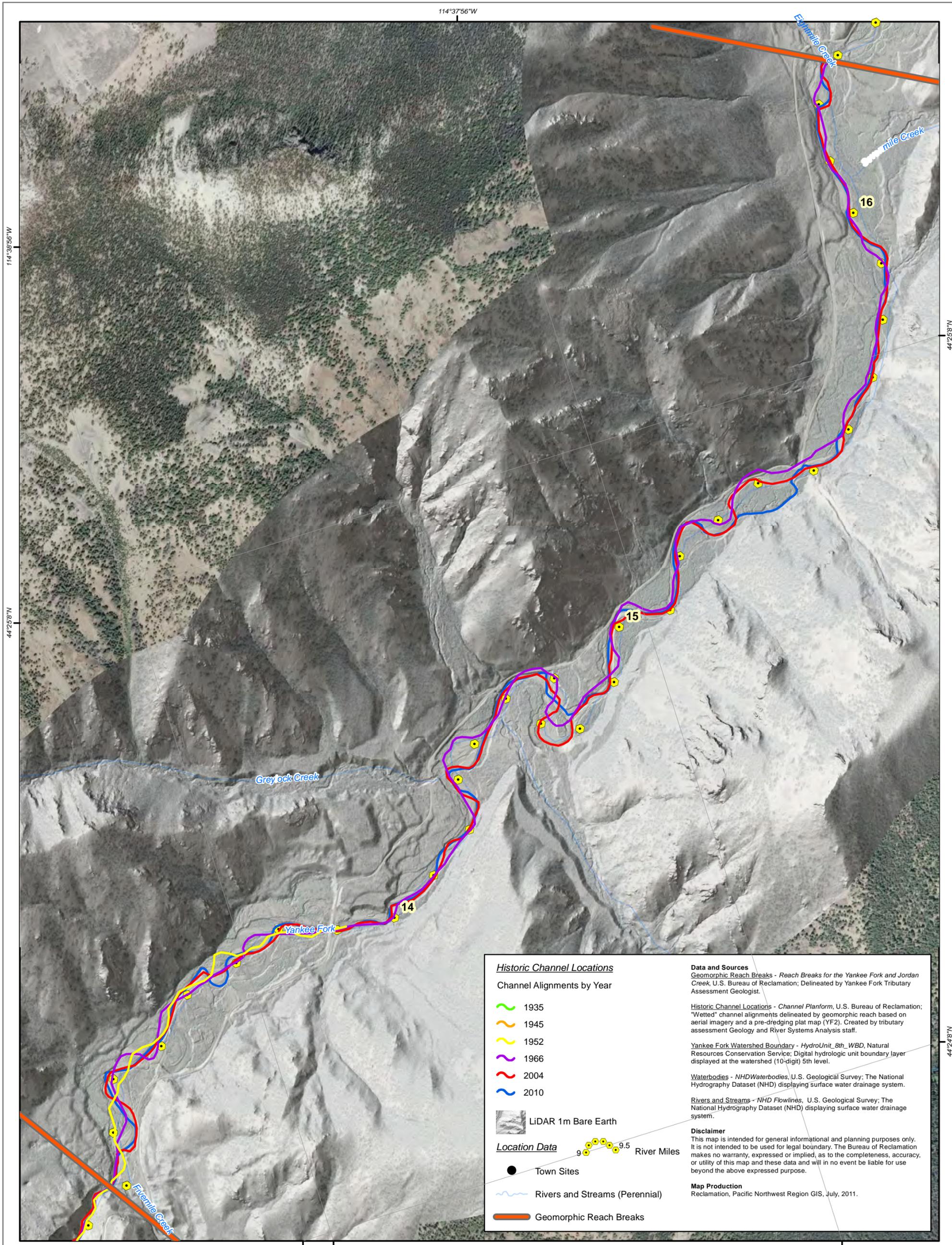
Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Middle Yankee Fork Valley Characteristics - Panel YF6

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Historic Channel Locations

Channel Alignments by Year

- 1935
- 1945
- 1952
- 1966
- 2004
- 2010

LiDAR 1m Bare Earth

Location Data

- Town Sites
- Rivers and Streams (Perennial)
- Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Locations - Channel Planform, U.S. Bureau of Reclamation; "Wetted" channel alignments delineated by geomorphic reach based on aerial imagery and a pre-dredging plat map (YF2). Created by tributary assessment Geology and River Systems Analysis staff.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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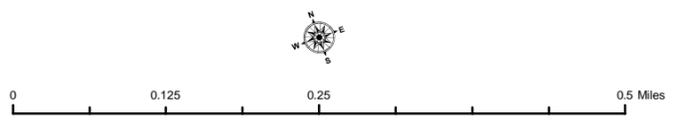
Map Production

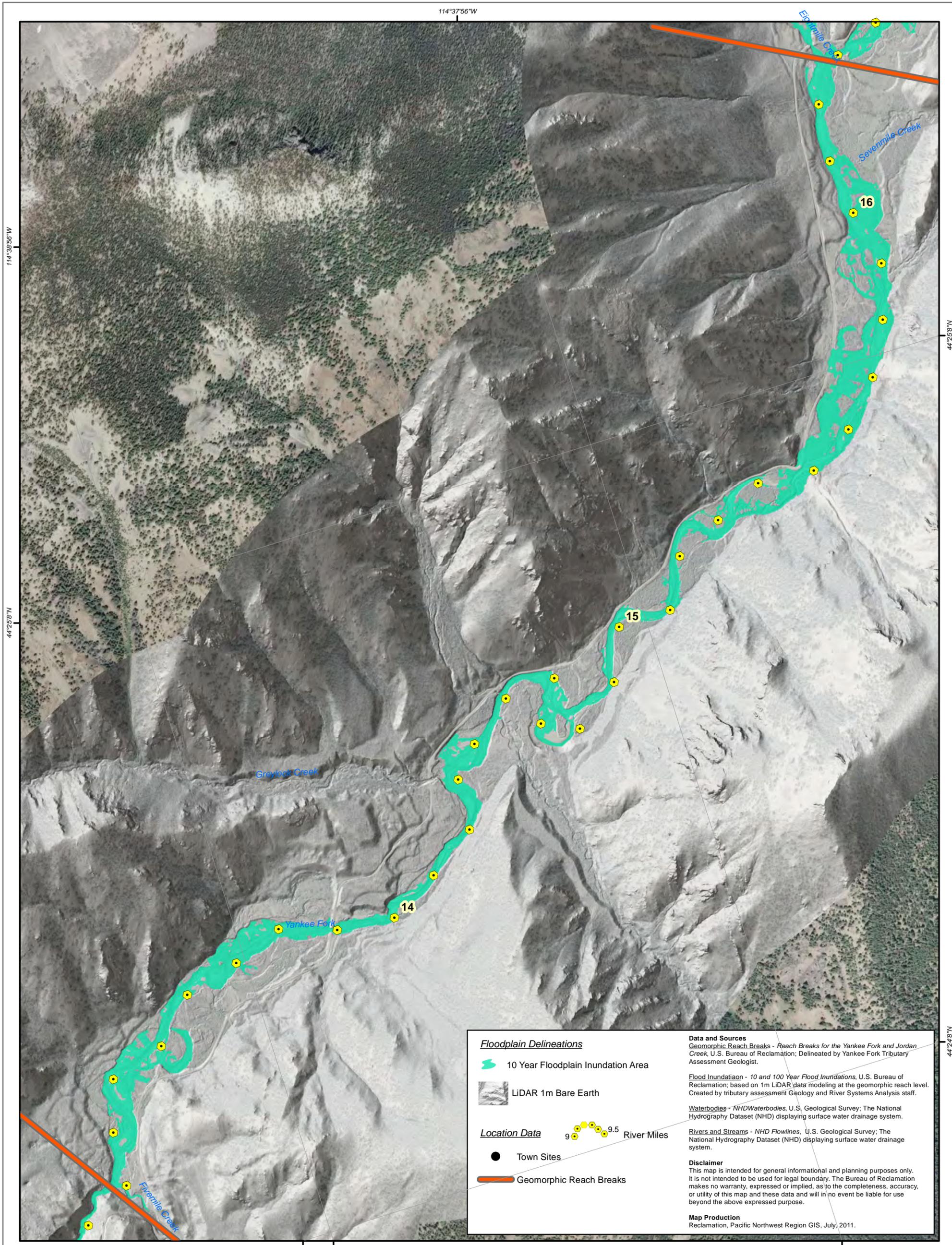
Reclamation, Pacific Northwest Region GIS, July, 2011.

Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho

Middle Yankee Fork Channel Planform - Panel YF6

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Floodplain Delineations

-  10 Year Floodplain Inundation Area
-  LiDAR 1m Bare Earth
- Location Data**
-  Town Sites
-  Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Flood Inundation - 10 and 100 Year Flood Inundations, U.S. Bureau of Reclamation; based on 1m LiDAR data modeling at the geomorphic reach level. Created by tributary assessment Geology and River Systems Analysis staff.

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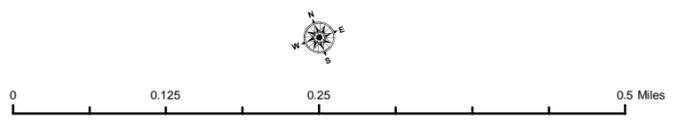
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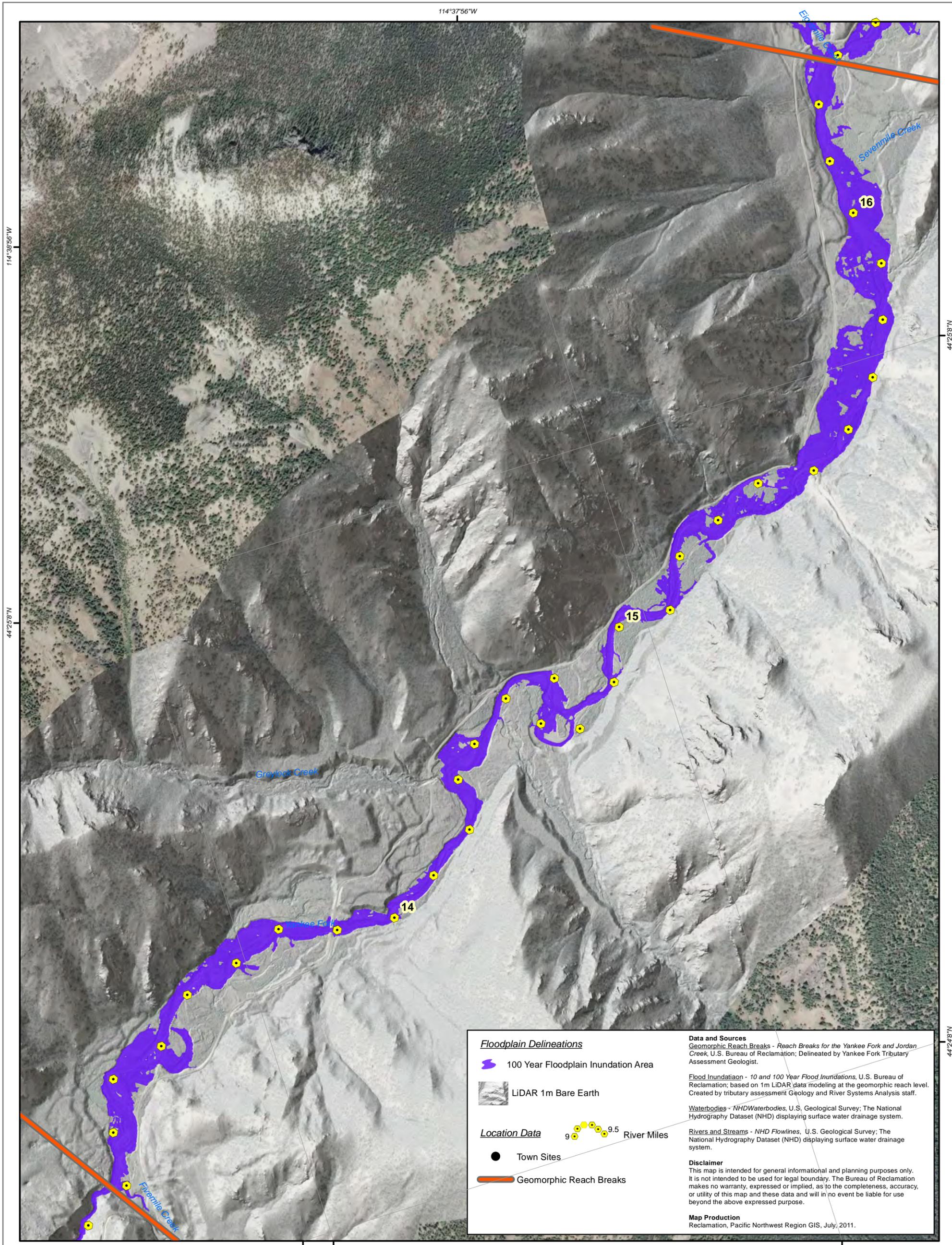
Map Production
Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

10-Year Floodplain Inundation - Panel YF6

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Floodplain Delineations

-  100 Year Floodplain Inundation Area
-  LiDAR 1m Bare Earth
- Location Data**
-  Town Sites
-  Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

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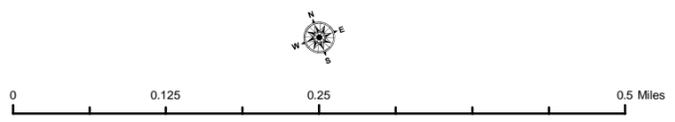
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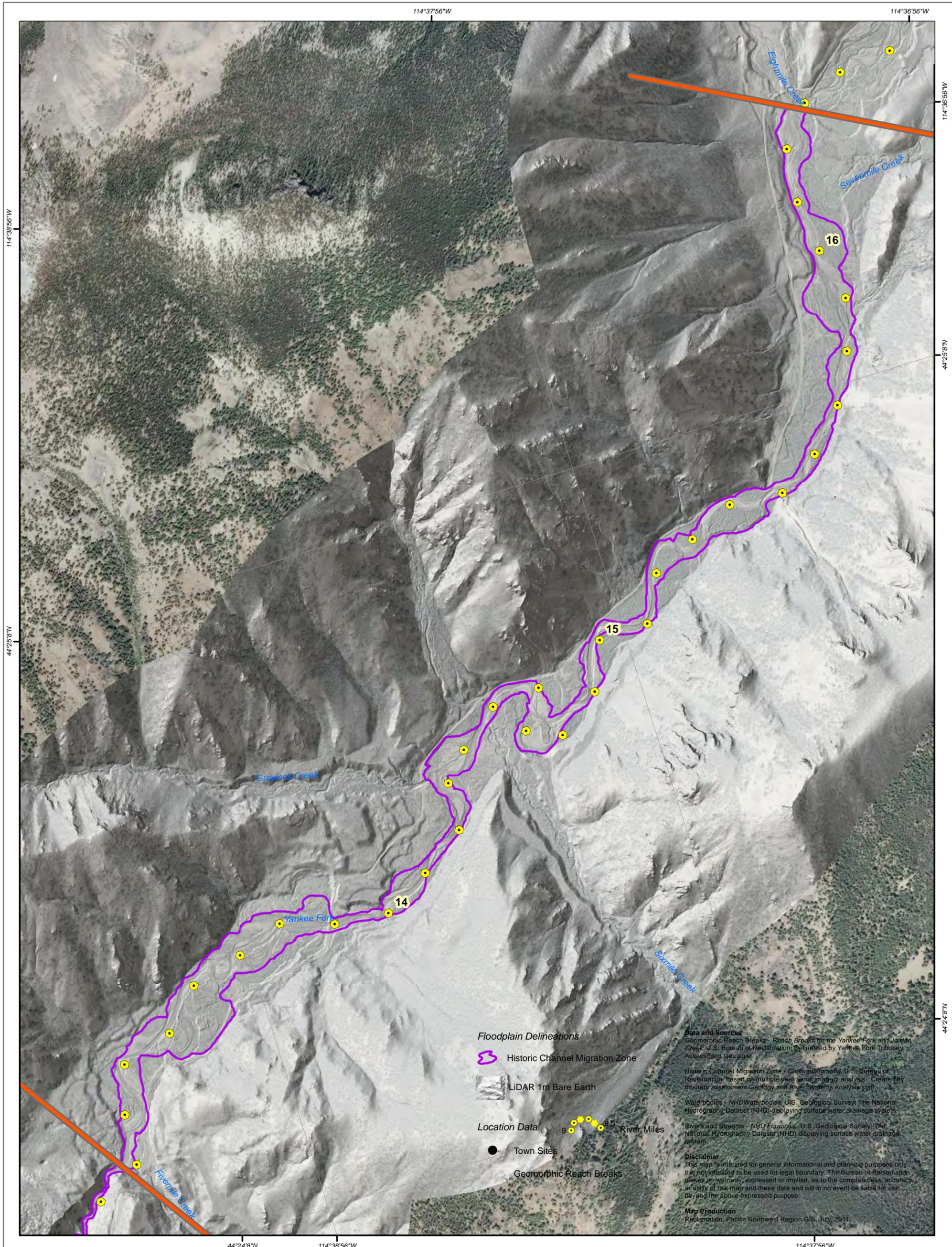
Map Production
Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

100-Year Floodplain Inundation - Panel YF6

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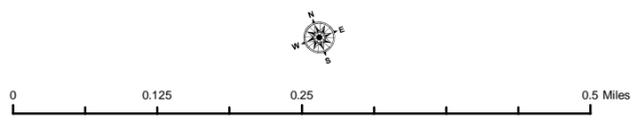




**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel YF6

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Managing Water in the West



114°40'29"W

114°39'29"W

44°24'25"N

44°24'25"N

44°23'25"N

44°23'25"N

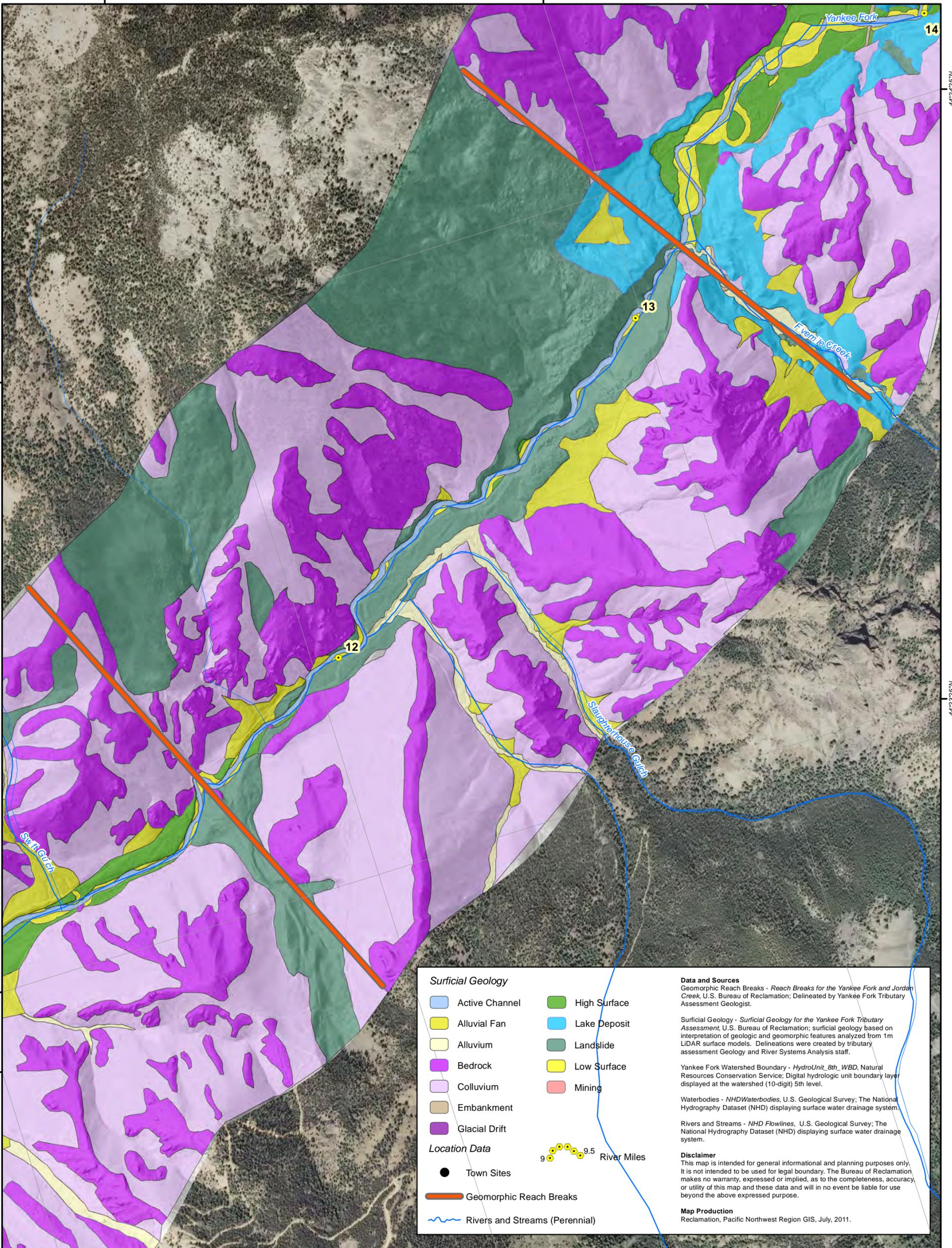
114°41'29"W

114°41'29"W

114°41'29"W

114°40'29"W

114°39'29"W

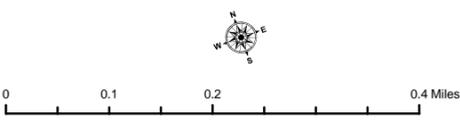


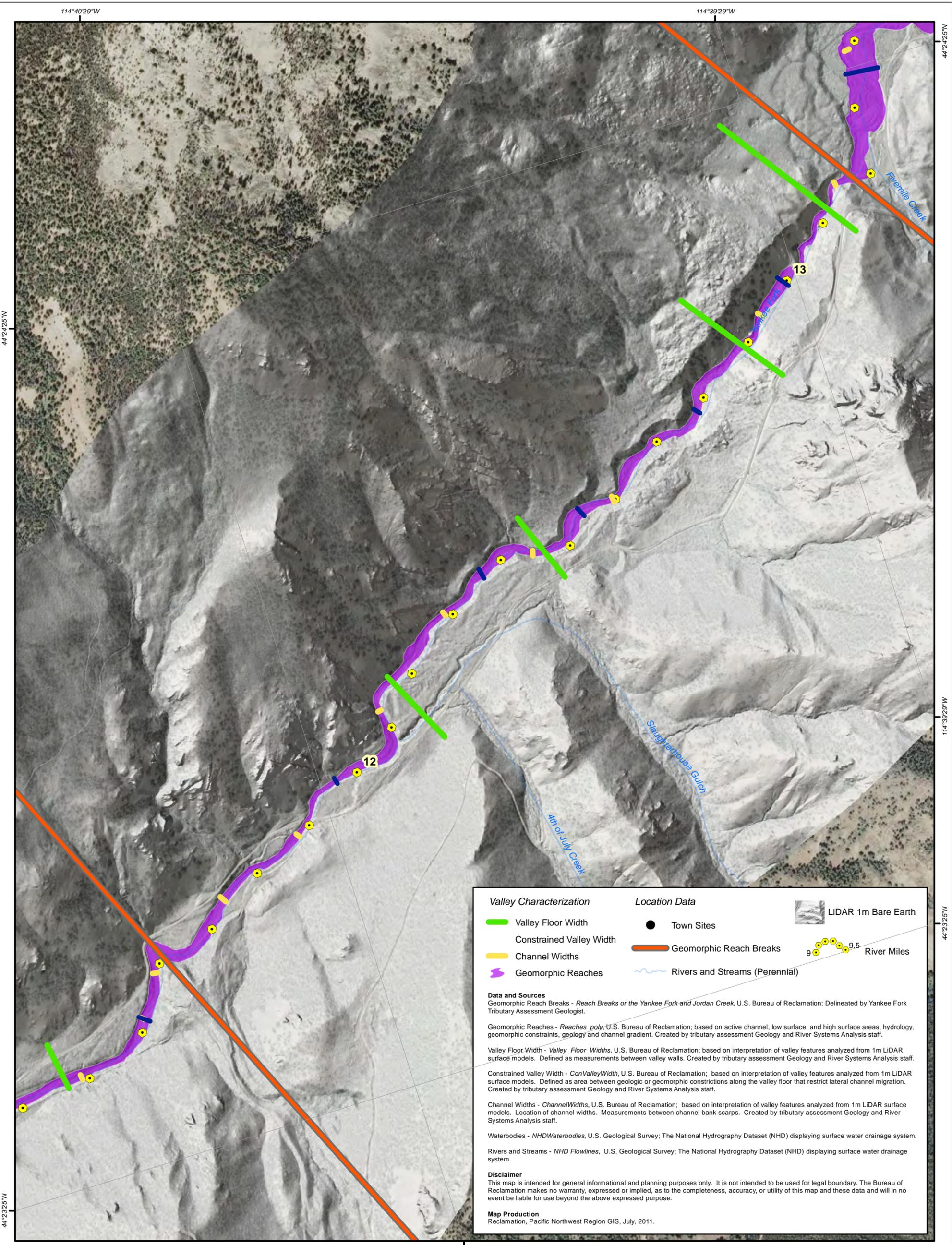
Surficial Geology		<p>Data and Sources</p> <p>Geomorphic Reach Breaks - <i>Reach Breaks for the Yankee Fork and Jordan Creek</i>, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.</p> <p>Surficial Geology - <i>Surficial Geology for the Yankee Fork Tributary Assessment</i>, U.S. Bureau of Reclamation; surficial geology based on interpretation of geologic and geomorphic features analyzed from 1m LIDAR surface models. Delineations were created by tributary assessment Geology and River Systems Analysis staff.</p> <p>Yankee Fork Watershed Boundary - <i>HydroUnit_8th_WBD</i>, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.</p> <p>Waterbodies - <i>NHDWaterbodies</i>, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.</p> <p>Rivers and Streams - <i>NHD Flowlines</i>, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.</p> <p>Disclaimer</p> <p>This map is intended for general informational and planning purposes only. It is not intended to be used for legal boundary. The Bureau of Reclamation makes no warranty, expressed or implied, as to the completeness, accuracy, or utility of this map and these data and will in no event be liable for use beyond the above expressed purpose.</p> <p>Map Production</p> <p>Reclamation, Pacific Northwest Region GIS, July, 2011.</p>
Active Channel	High Surface	
Alluvial Fan	Lake Deposit	
Alluvium	Landslide	
Bedrock	Low Surface	
Colluvium	Mining	
Embankment		
Glacial Drift		
Location Data		
Town Sites	9.5 River Miles	
Geomorphic Reach Breaks		
Rivers and Streams (Perennial)		

Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho

Middle Yankee Fork Surficial Geology - Panel YF5

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Managing Water in the West





Valley Characterization		Location Data	
Valley Floor Width	Town Sites	Geomorphic Reach Breaks	LIDAR 1m Bare Earth
Constrained Valley Width		Rivers and Streams (Perennial)	River Miles
Channel Widths			
Geomorphic Reaches			

Data and Sources
 Geomorphic Reach Breaks - *Reach Breaks or the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.
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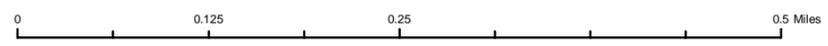
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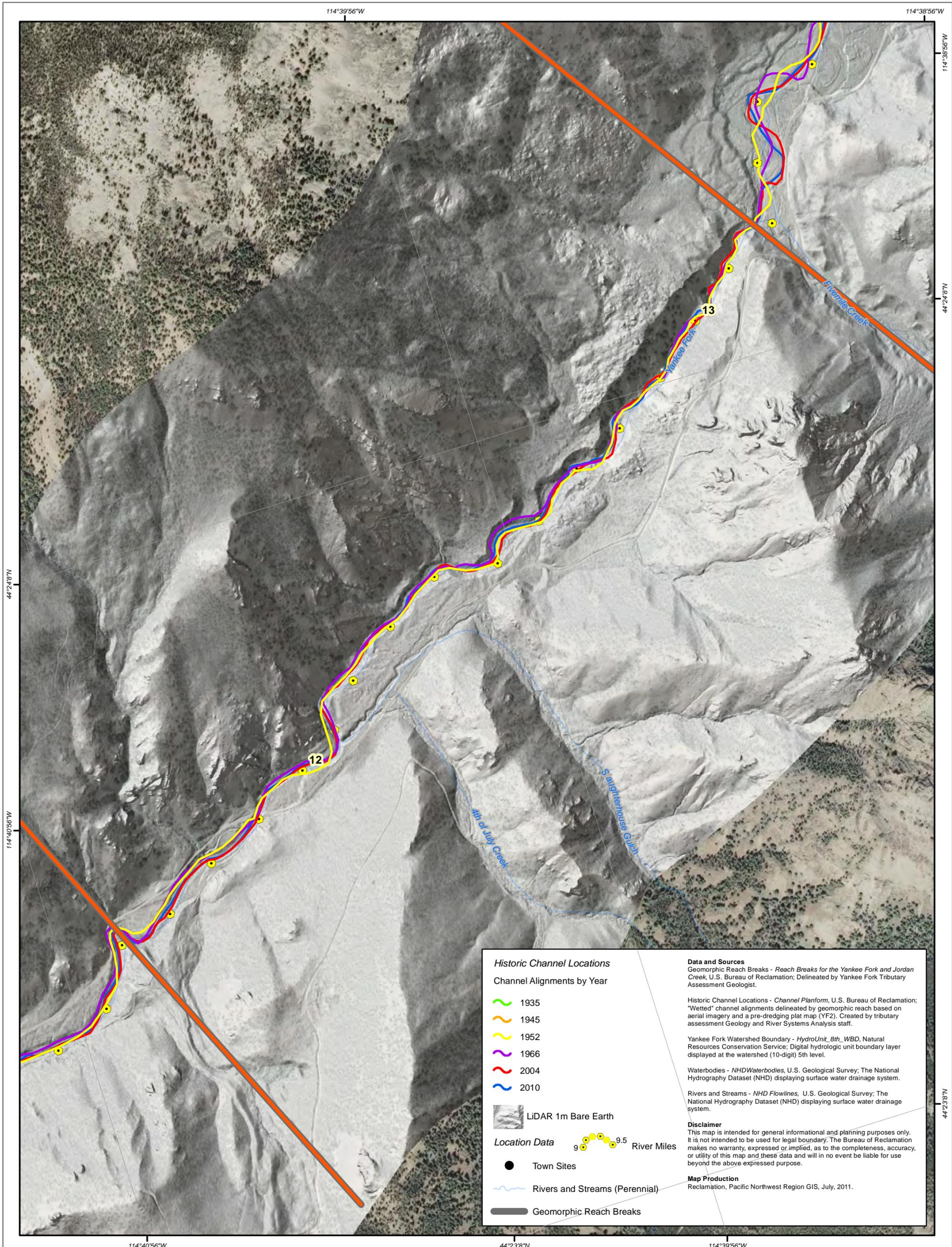
Map Production
 Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

Middle Yankee Fork Valley Characteristics - Panel YF5

RECLAMATION
Managing Water in the West





Historic Channel Locations
Channel Alignments by Year

- 1935
- 1945
- 1952
- 1966
- 2004
- 2010

LiDAR 1m Bare Earth

Location Data

- 9, 12, 13 River Miles
- Town Sites
- Rivers and Streams (Perennial)
- Geomorphic Reach Breaks

Data and Sources
Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Locations - *Channel Planform*, U.S. Bureau of Reclamation; "Wetted" channel alignments delineated by geomorphic reach based on aerial imagery and a pre-dredging plat map (YF2). Created by tributary assessment Geology and River Systems Analysis staff.

Yankee Fork Watershed Boundary - *HydroUnit_8th_WBD*, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

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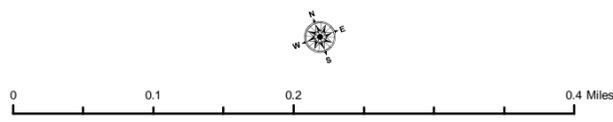
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Map Production
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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Middle Yankee Fork Channel Planform - Panel YF5

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Managing Water in the West



114°39'56"W

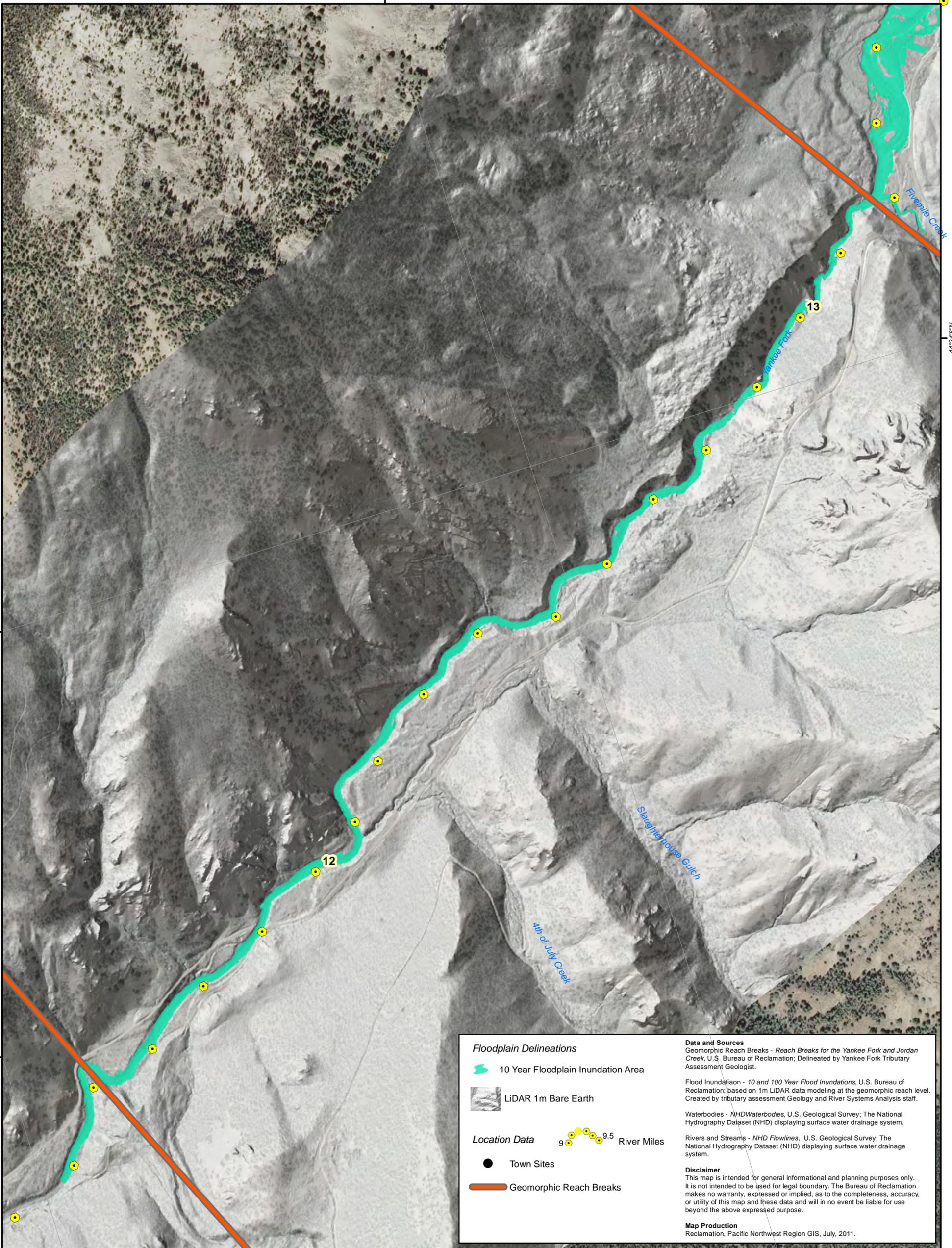
44°24'8"N

44°24'8"N

114°40'56"W

114°40'56"W

114°39'56"W



Floodplain Delineations

10 Year Floodplain Inundation Area

LiDAR 1m Bare Earth

Location Data River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

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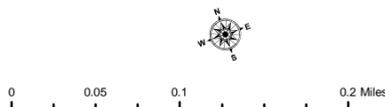
Map Production

Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

10-Year Floodplain Inundation - Panel YF5

RECLAMATION
Managing Water in the West



114°39'56"W

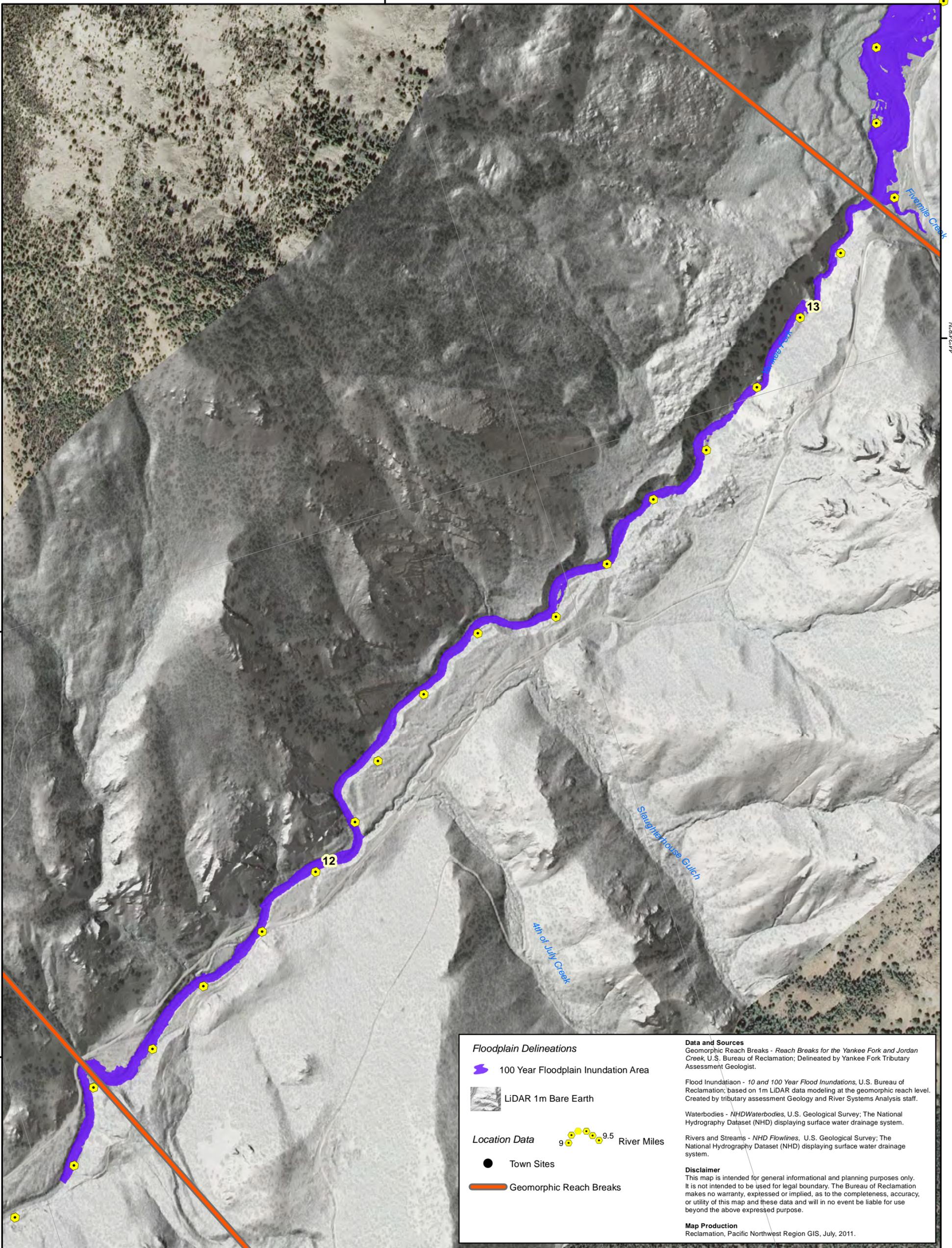
44°24'8"N

44°24'8"N

114°40'56"W

114°40'56"W

114°39'56"W



Floodplain Delineations

100 Year Floodplain Inundation Area

LiDAR 1m Bare Earth

Location Data 9, 9.5 River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

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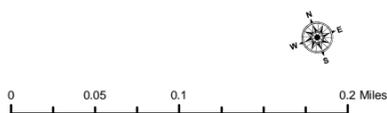
Map Production

Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

100-Year Floodplain Inundation - Panel YF5

RECLAMATION
Managing Water in the West

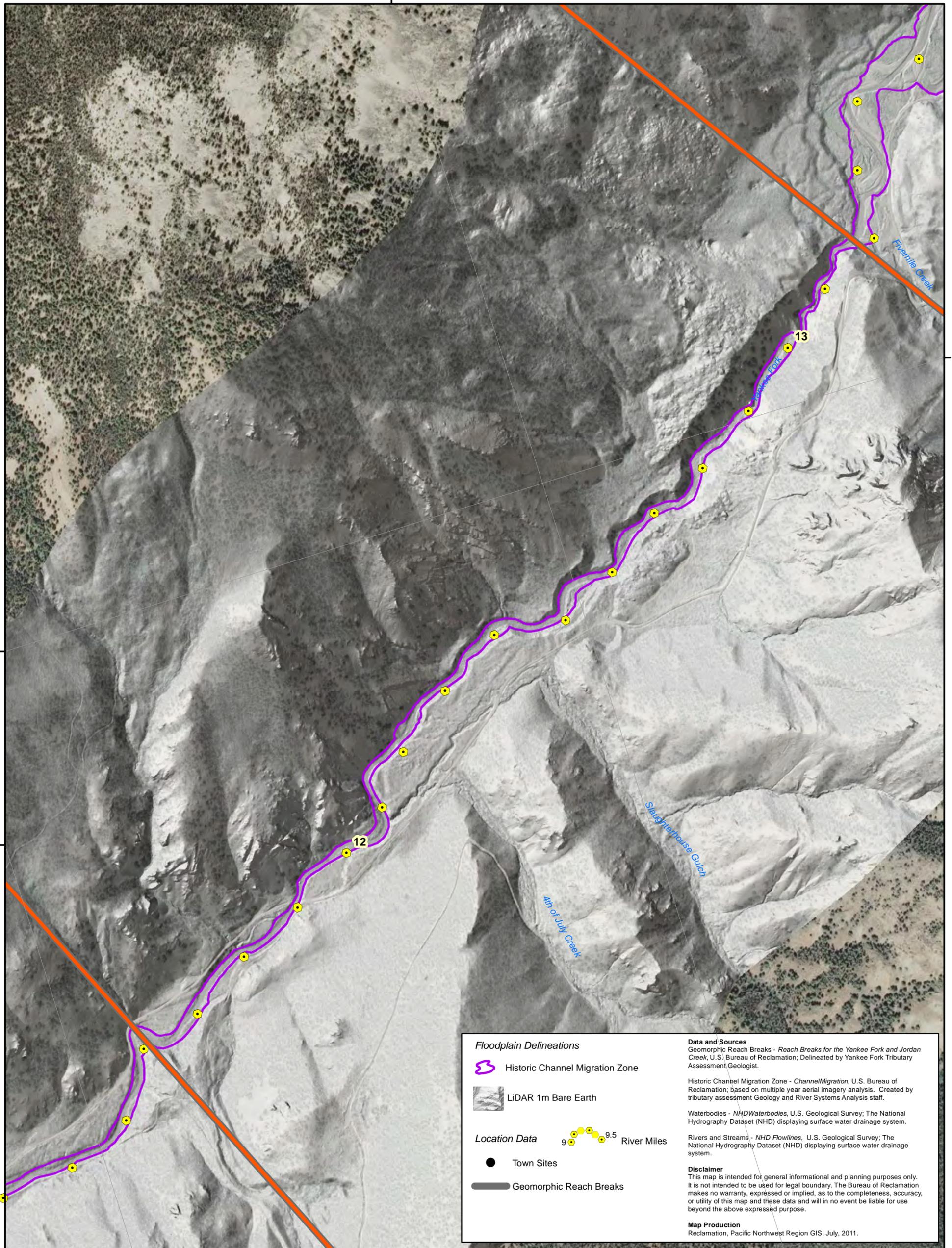


114°39'56"W

44°24'8"N

114°40'56"W

44°24'8"N



114°40'56"W

114°39'56"W

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel YF5

Floodplain Delineations

- Historic Channel Migration Zone
- LiDAR 1m Bare Earth

Location Data

- Town Sites
- Geomorphic Reach Breaks

Data and Sources
 Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Migration Zone - *Channel Migration*, U.S. Bureau of Reclamation; based on multiple year aerial imagery analysis. Created by tributary assessment Geology and River Systems Analysis staff.

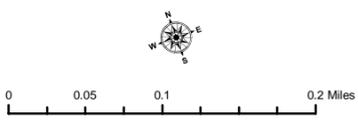
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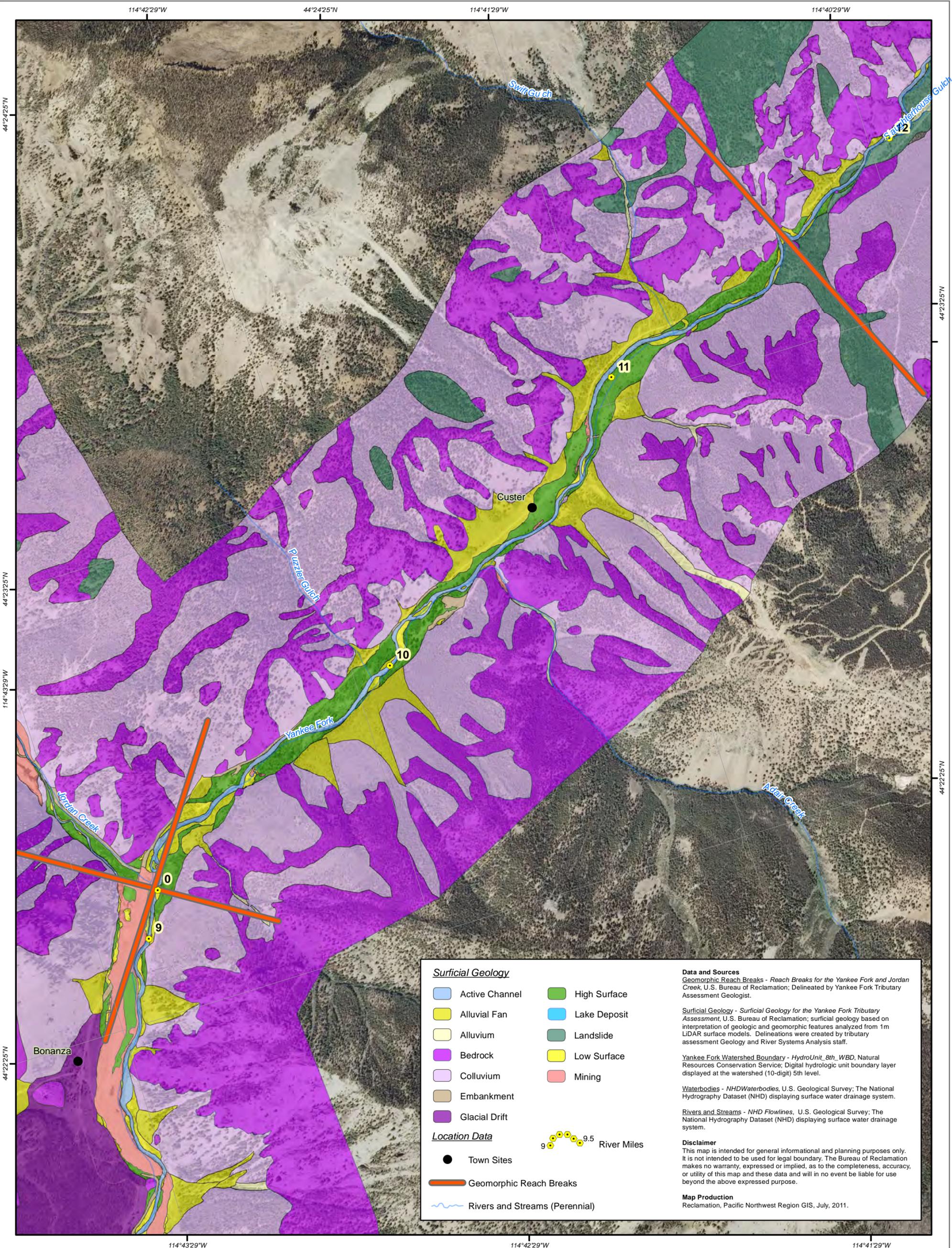
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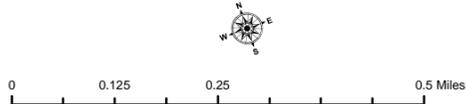


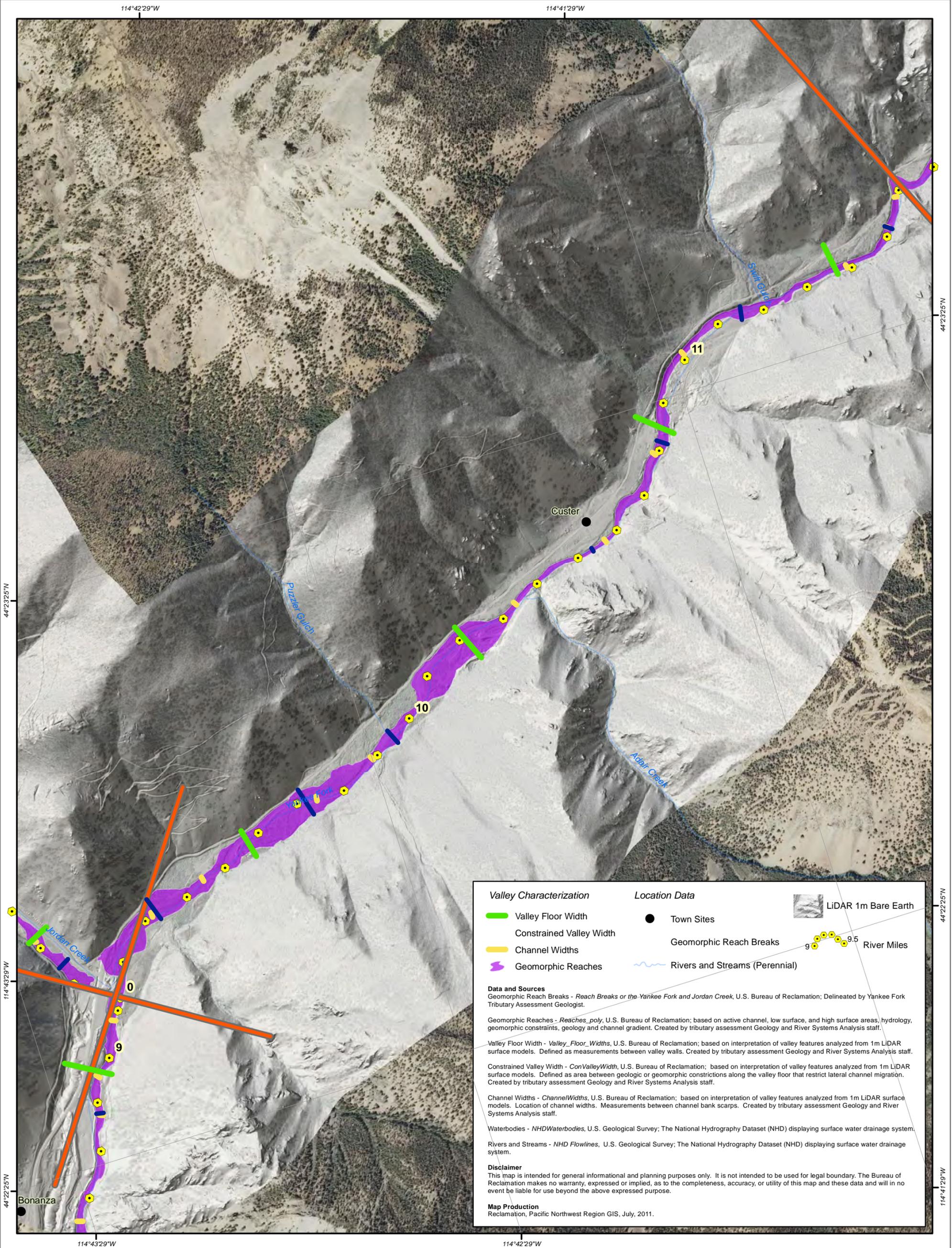


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Middle Yankee Fork Surficial Geology - Panel YF4

RECLAMATION
Managing Water in the West

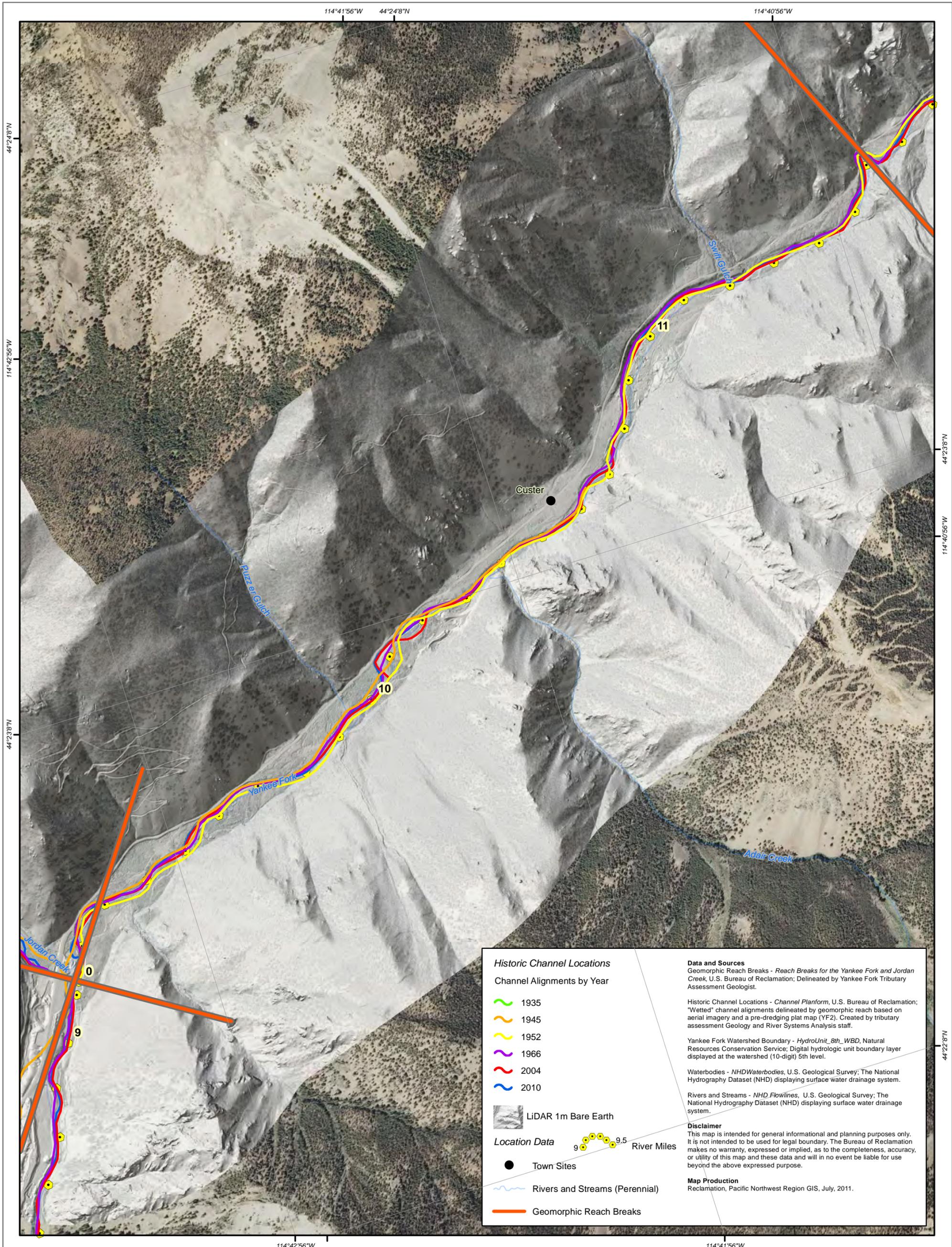




Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Middle Yankee Fork Valley Characteristics - Panel YF4

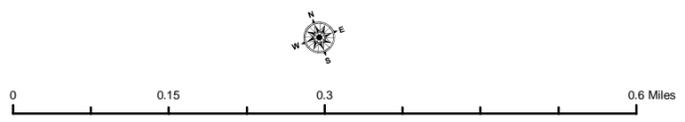
RECLAMATION
Managing Water in the West

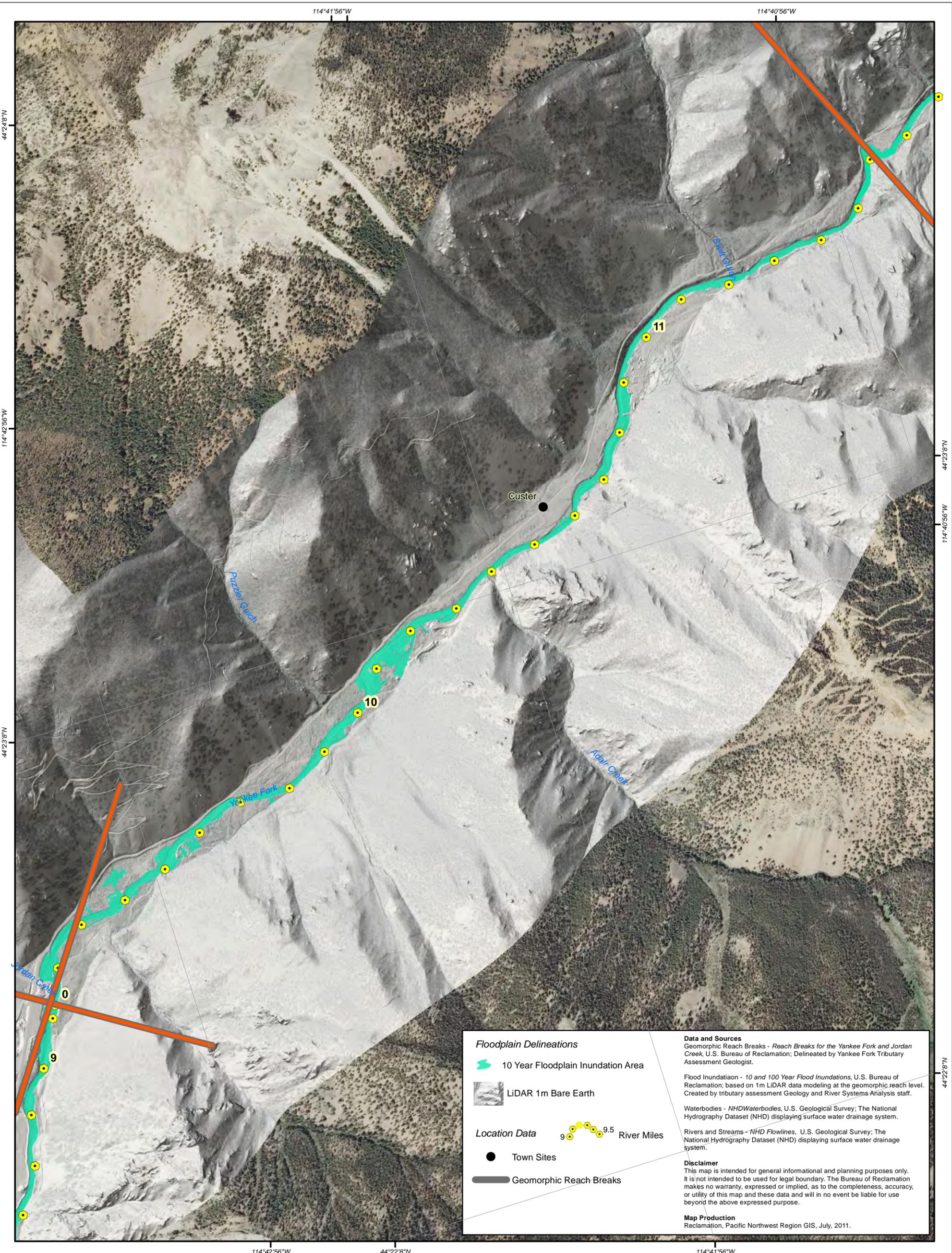


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Middle Yankee Fork Channel Planform - Panel YF4

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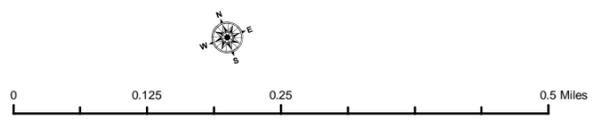


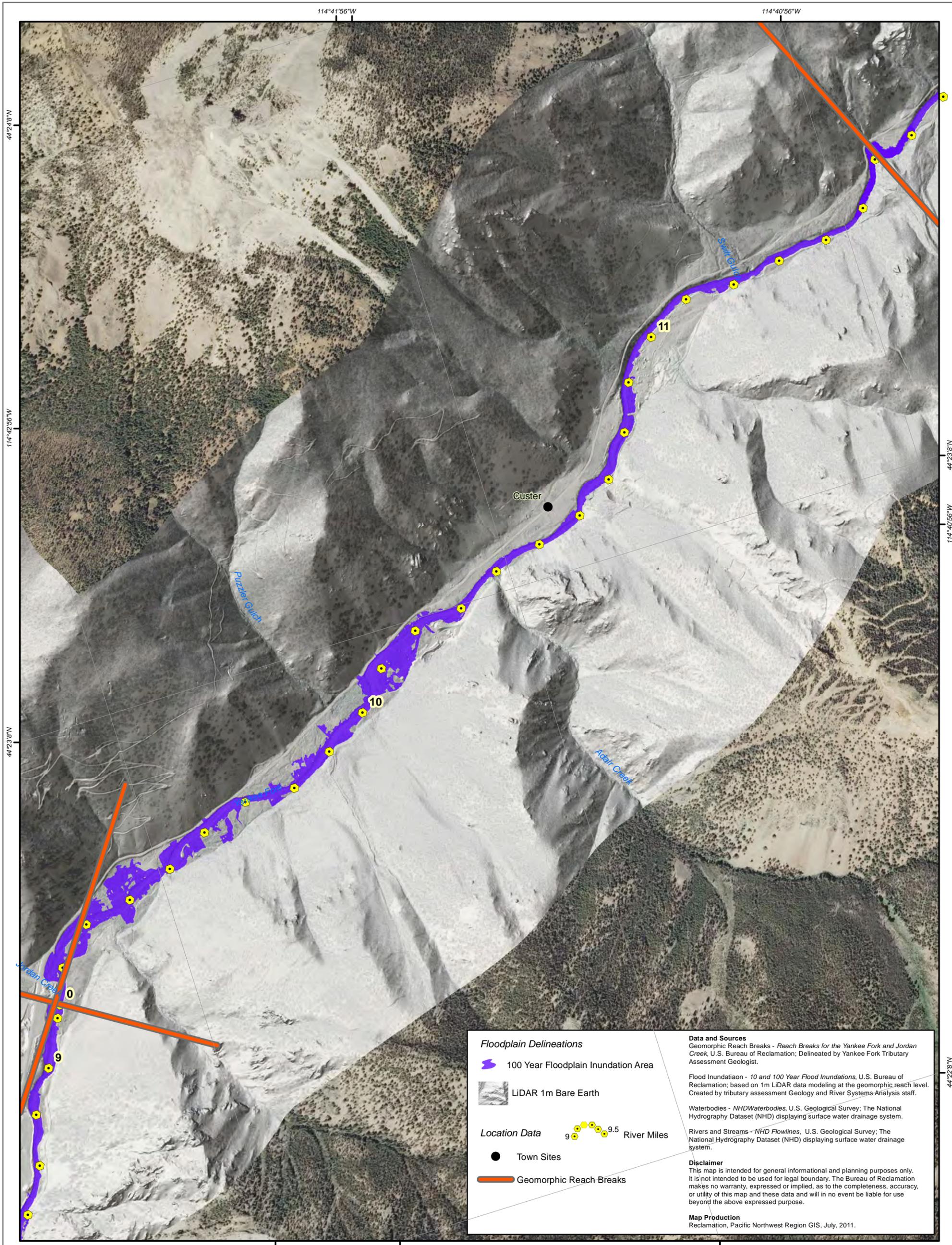


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

10-Year Floodplain Inundation - Panel YF4

RECLAMATION
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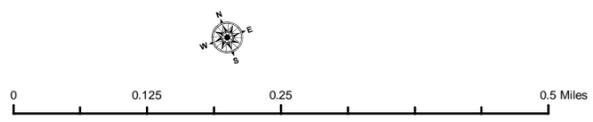


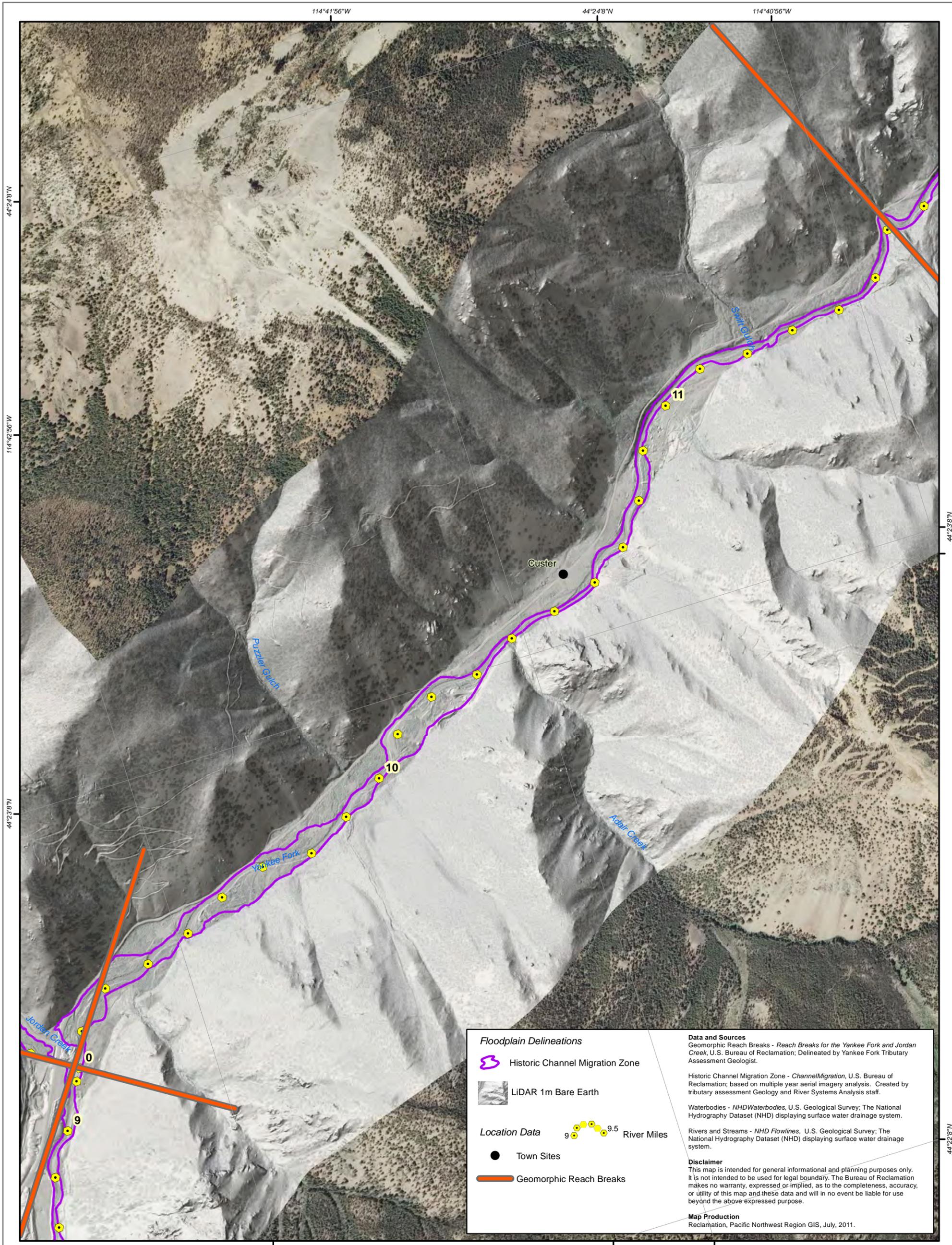


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

100-Year Floodplain Inundation - Panel YF4

RECLAMATION
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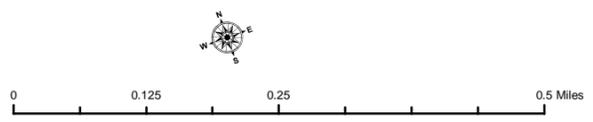


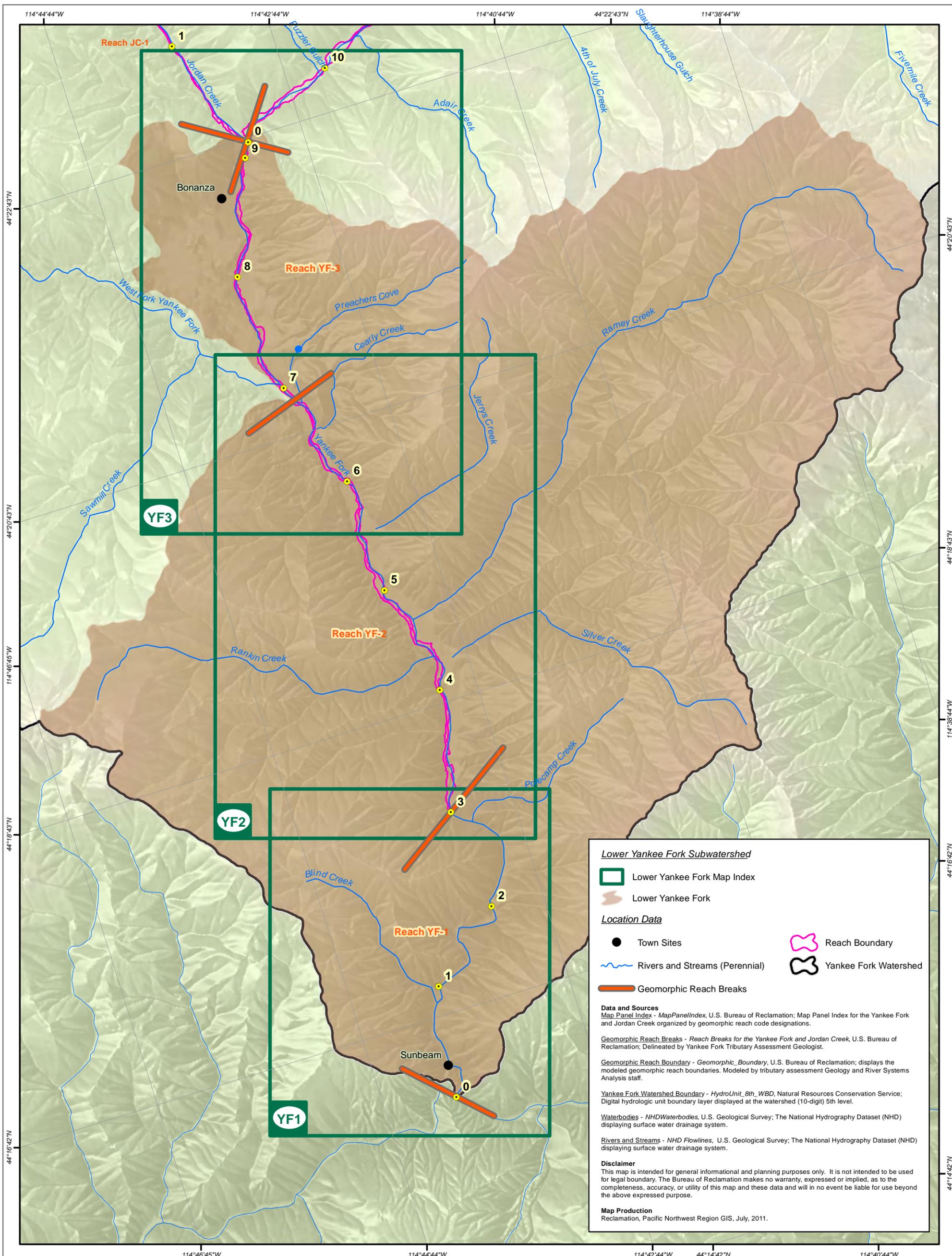


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel YF4

RECLAMATION
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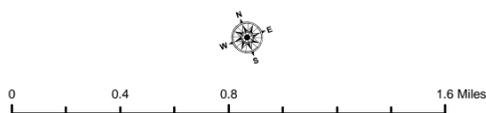


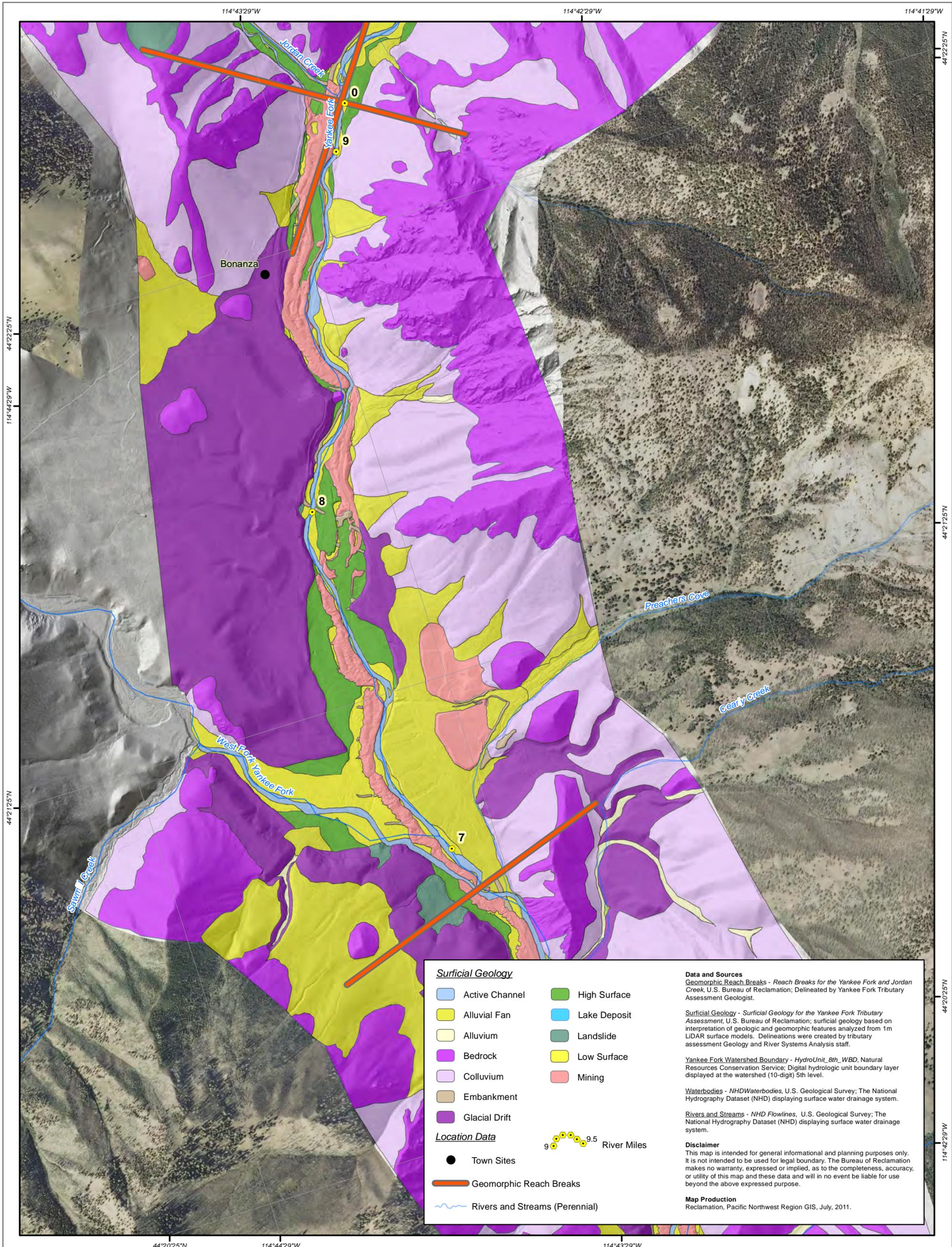


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Lower Yankee Fork Subwatershed Map Index

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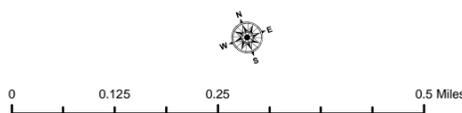


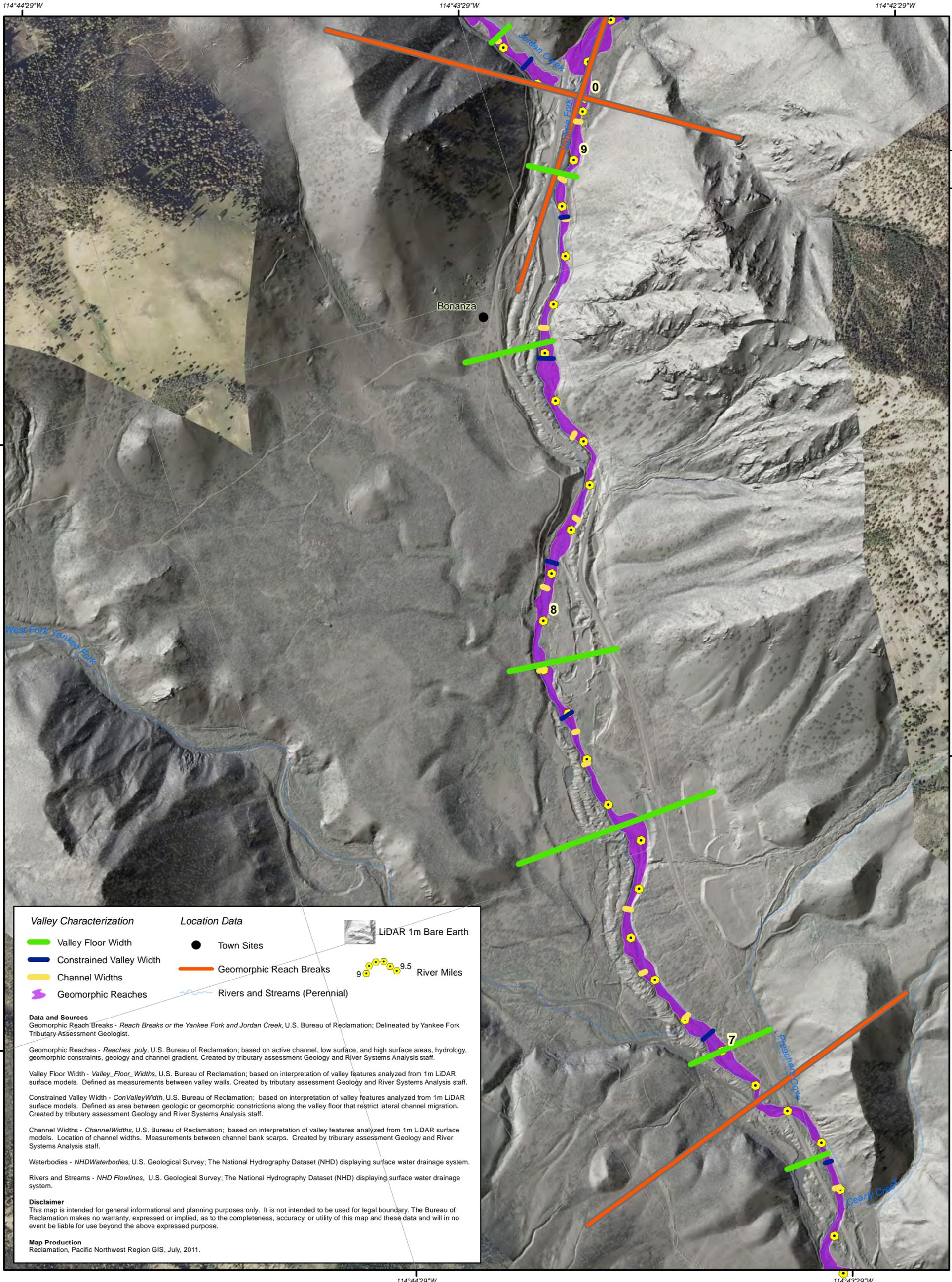
Surfacial Geology		<p>Data and Sources</p> <p>Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.</p> <p>Surfacial Geology - Surfacial Geology for the Yankee Fork Tributary Assessment, U.S. Bureau of Reclamation; surficial geology based on interpretation of geologic and geomorphic features analyzed from 1m LIDAR surface models. Delineations were created by tributary assessment Geology and River Systems Analysis staff.</p> <p>Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.</p> <p>Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.</p> <p>Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.</p> <p>Disclaimer</p> <p>This map is intended for general informational and planning purposes only. It is not intended to be used for legal boundary. The Bureau of Reclamation makes no warranty, expressed or implied, as to the completeness, accuracy, or utility of this map and these data and will in no event be liable for use beyond the above expressed purpose.</p> <p>Map Production</p> <p>Reclamation, Pacific Northwest Region GIS, July, 2011.</p>
Active Channel	High Surface	
Alluvial Fan	Lake Deposit	
Alluvium	Landslide	
Bedrock	Low Surface	
Colluvium	Mining	
Embankment		
Glacial Drift		
Location Data		
Town Sites	9.5 River Miles	
Geomorphic Reach Breaks		
Rivers and Streams (Perennial)		

Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho

Lower Yankee Fork Surfacial Geology - Panel YF3

RECLAMATION
Managing Water in the West





Valley Characterization		Location Data	
	Valley Floor Width		Town Sites
	Constrained Valley Width		Geomorphic Reach Breaks
	Channel Widths		Rivers and Streams (Perennial)
	Geomorphic Reaches		LiDAR 1m Bare Earth

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks or the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Geomorphic Reaches - *Reaches_poly*, U.S. Bureau of Reclamation; based on active channel, low surface, and high surface areas, hydrology, geomorphic constraints, geology and channel gradient. Created by tributary assessment Geology and River Systems Analysis staff.

Valley Floor Width - *Valley_Floor_Widths*, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Defined as measurements between valley walls. Created by tributary assessment Geology and River Systems Analysis staff.

Constrained Valley Width - *ConValleyWidth*, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Defined as area between geologic or geomorphic constrictions along the valley floor that restrict lateral channel migration. Created by tributary assessment Geology and River Systems Analysis staff.

Channel Widths - *ChannelWidths*, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Location of channel widths. Measurements between channel bank scarps. Created by tributary assessment Geology and River Systems Analysis staff.

Waterbodies - *NHDWaterbodies*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - *NHD Flowlines*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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Map Production

Reclamation, Pacific Northwest Region GIS, July, 2011.

Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Lower Yankee Fork Valley Characteristics - Panel YF3

RECLAMATION
Managing Water in the West

114°43'56"W

114°42'56"W

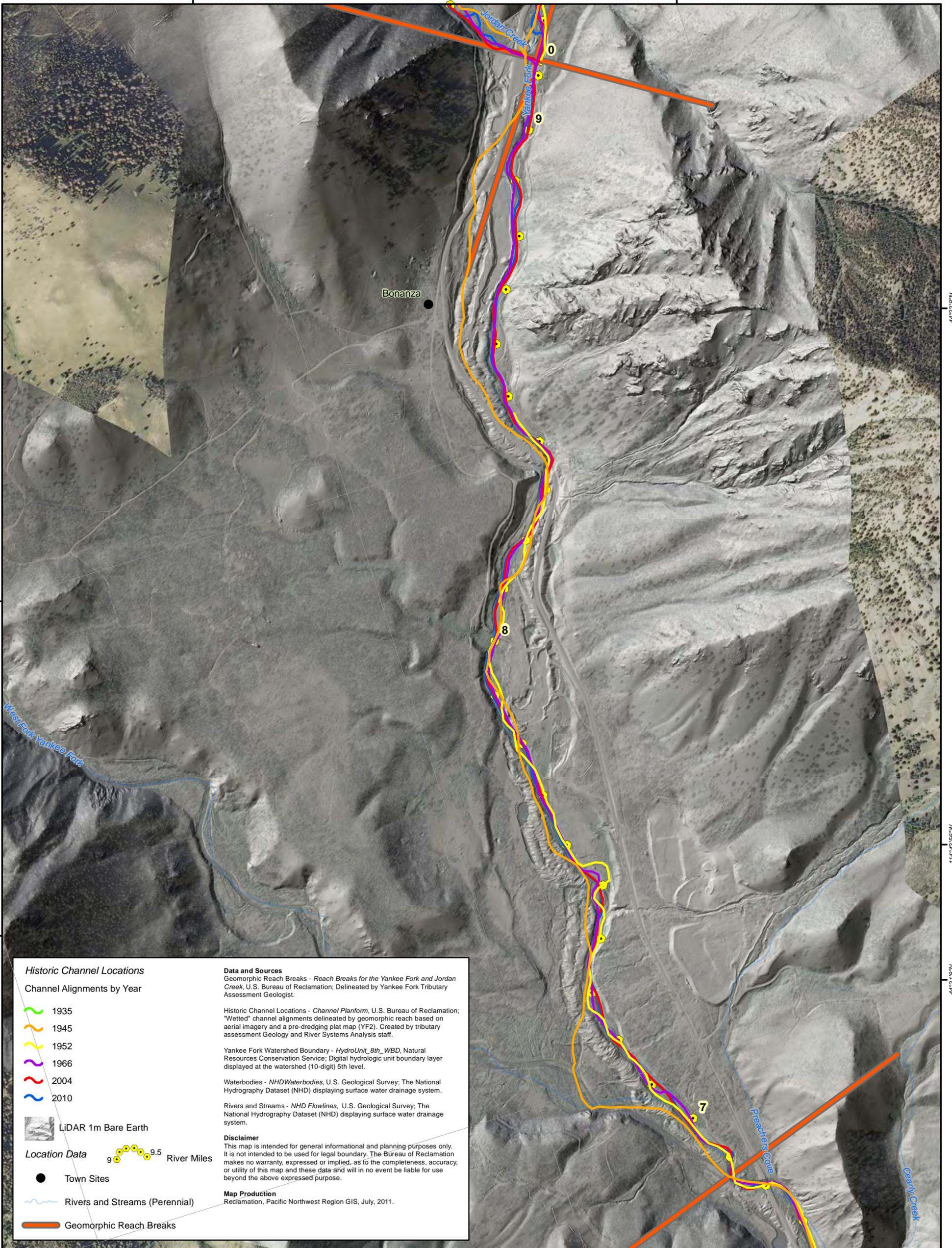
44°22'8"N

44°22'8"N

114°44'56"W

114°42'56"W

44°21'8"N



Historic Channel Locations

Channel Alignments by Year

-  1935
-  1945
-  1952
-  1966
-  2004
-  2010

 LiDAR 1m Bare Earth

Location Data  9.5 River Miles

 Town Sites

 Rivers and Streams (Perennial)

 Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Locations - *Channel Planform*, U.S. Bureau of Reclamation; "Wetted" channel alignments delineated by geomorphic reach based on aerial imagery and a pre-dredging plat map (YF2). Created by tributary assessment Geology and River Systems Analysis staff.

Yankee Fork Watershed Boundary - *HydroUnit_8th_WBD*, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - *NHDWaterbodies*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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Map Production

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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Lower Yankee Fork Channel Planform - Panel YF3

RECLAMATION
Managing Water in the West



0 0.125 0.25 0.5 Miles

114°43'56"W

114°42'56"W

44°22'8"N

44°22'8"N

114°44'56"W

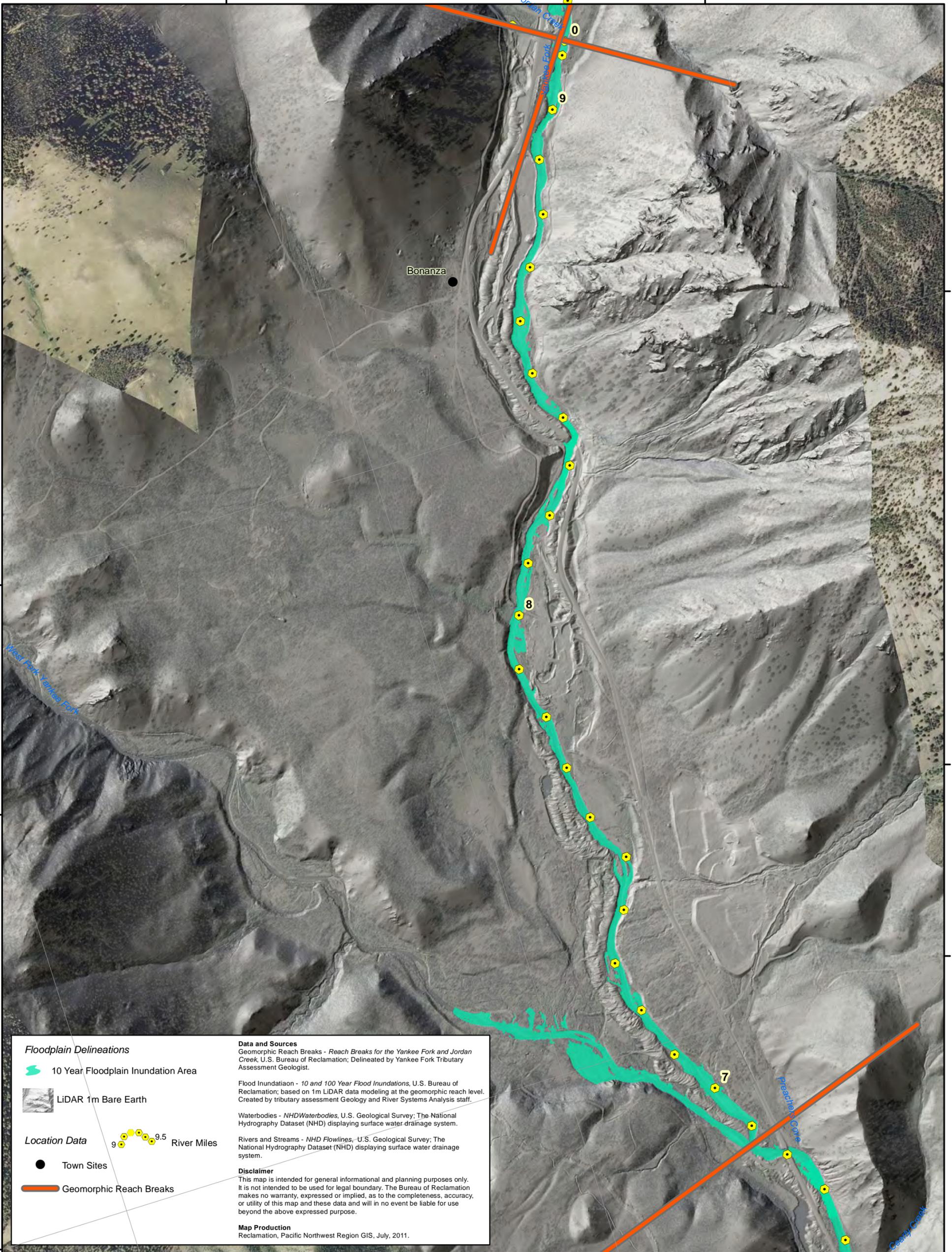
114°42'56"W

44°21'8"N

44°21'8"N

114°44'56"W

114°43'56"W



Floodplain Delineations

10 Year Floodplain Inundation Area

LiDAR 1m Bare Earth

Location Data 9.5 River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Flood Inundation - *10 and 100 Year Flood Inundations*, U.S. Bureau of Reclamation; based on 1m LiDAR data modeling at the geomorphic reach level. Created by tributary assessment Geology and River Systems Analysis staff.

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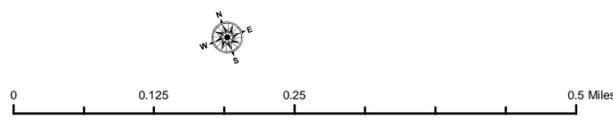
Map Production

Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

10-Year Floodplain Inundation - Panel YF3

RECLAMATION
Managing Water in the West



114°43'56"W

114°42'56"W

44°22'8"N

44°22'8"N

114°44'56"W

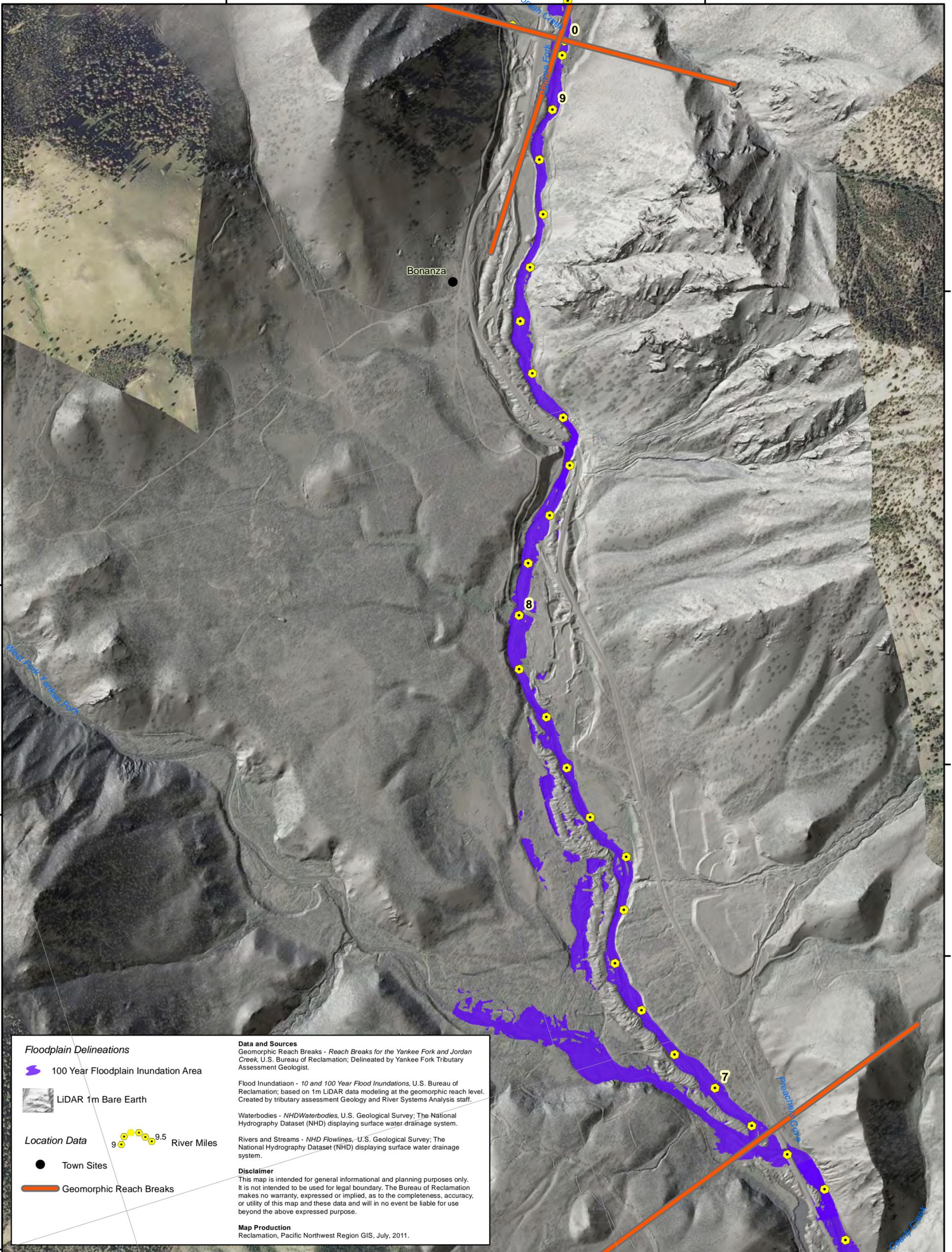
114°42'56"W

44°21'8"N

44°21'8"N

114°44'56"W

114°43'56"W



Floodplain Delineations

100 Year Floodplain Inundation Area

LiDAR 1m Bare Earth

Location Data River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

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Map Production

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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

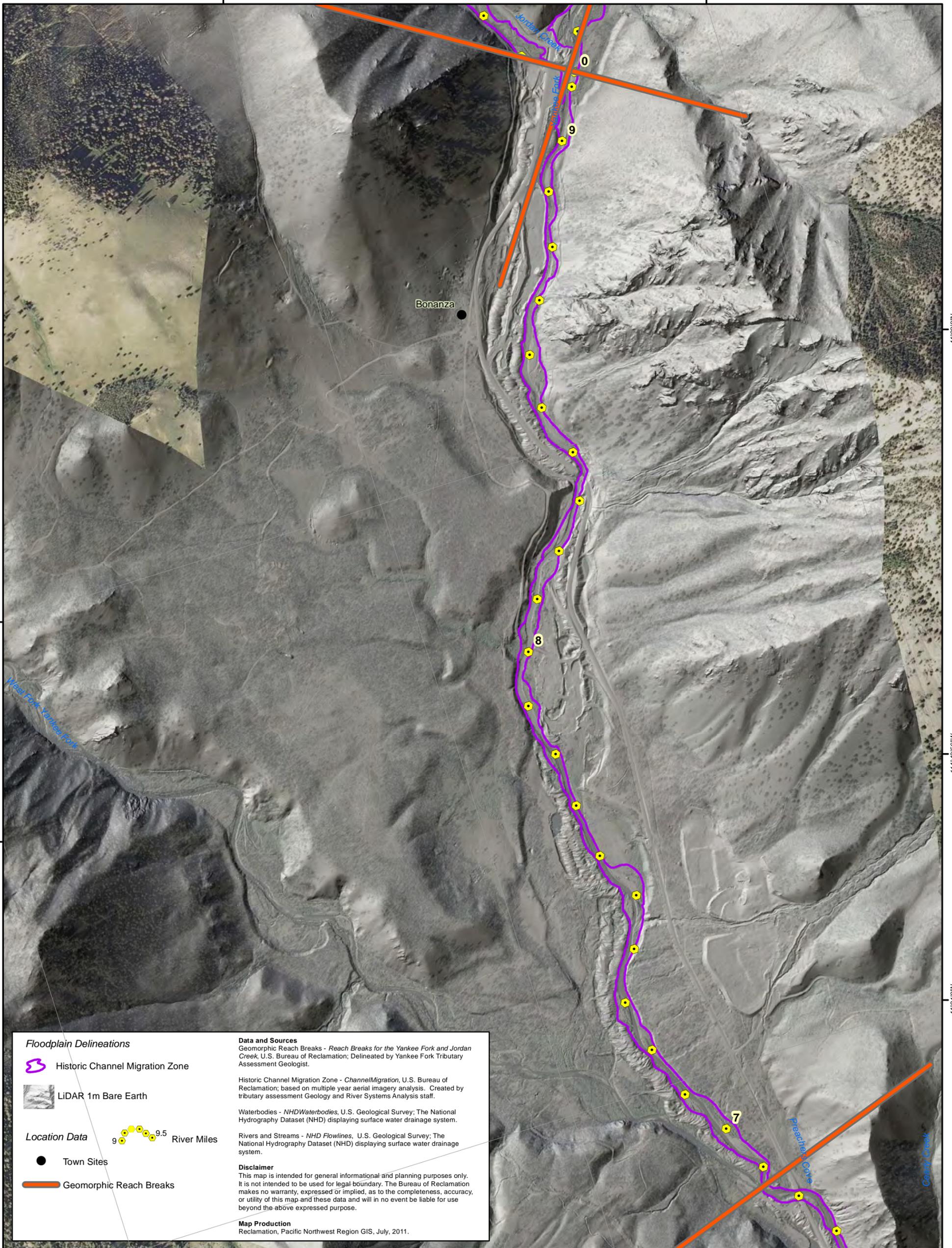
100-Year Floodplain Inundation - Panel YF3

RECLAMATION
Managing Water in the West



114°43'56"W

114°42'56"W



44°22'8"N

114°44'56"W

114°44'56"W

44°22'8"N

114°42'56"W

44°21'8"N

Floodplain Delineations

Historic Channel Migration Zone

LiDAR 1m Bare Earth

Location Data 9.5 River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Migration Zone - *ChannelMigration*, U.S. Bureau of Reclamation; based on multiple year aerial imagery analysis. Created by tributary assessment Geology and River Systems Analysis staff.

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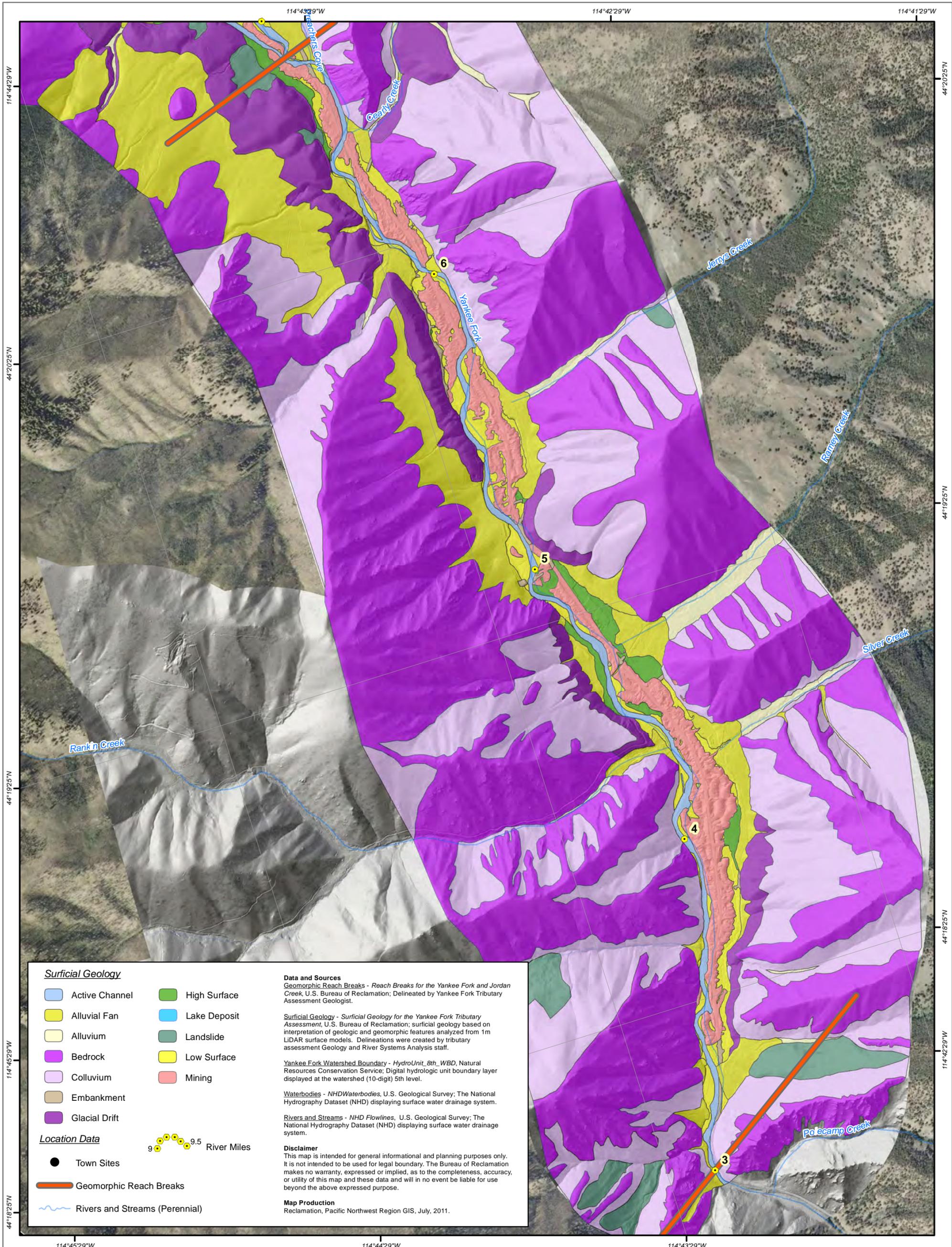
**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel YF3

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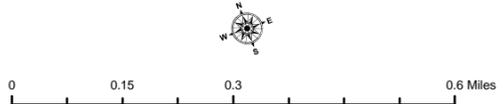
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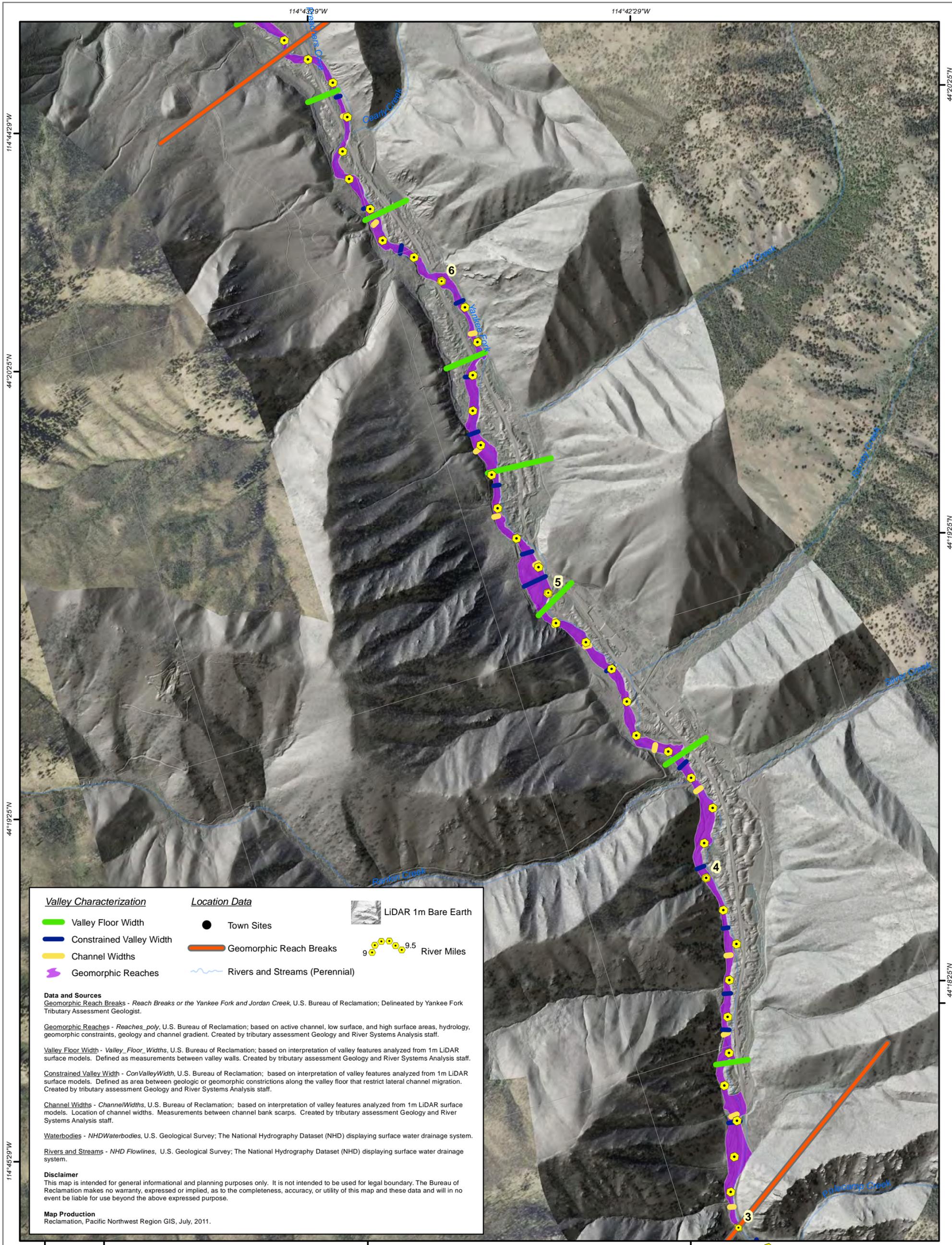


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Lower Yankee Fork Surfacial Geology - Panel YF2

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Valley Characterization

- █ Valley Floor Width
- █ Constrained Valley Width
- █ Channel Widths
- █ Geomorphic Reaches

Location Data

- Town Sites
- █ Geomorphic Reach Breaks
- ~ Rivers and Streams (Perennial)

LiDAR 1m Bare Earth
 9.5 River Miles

Data and Sources

Geomorphic Reach Breaks - Reach Breaks or the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Geomorphic Reaches - Reaches_poly, U.S. Bureau of Reclamation; based on active channel, low surface, and high surface areas, hydrology, geomorphic constraints, geology and channel gradient. Created by tributary assessment Geology and River Systems Analysis staff.

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Waterbodies - NHDWaterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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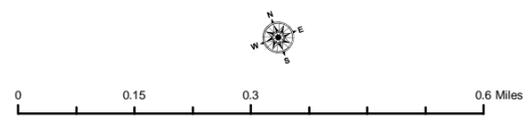
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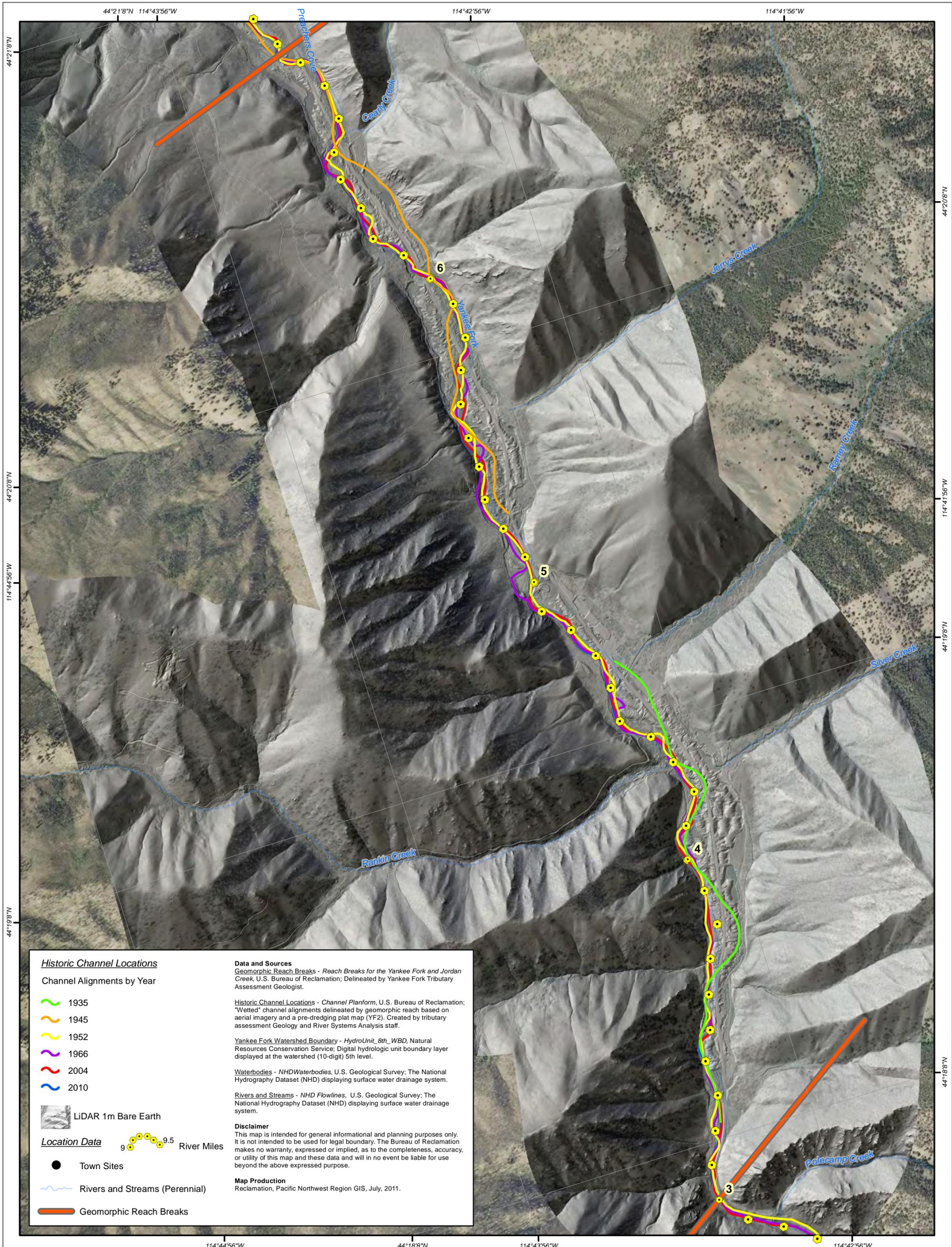
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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

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Lower Yankee Fork Valley Characteristics - Panel YF2





Historic Channel Locations

Channel Alignments by Year

-  1935
-  1945
-  1952
-  1966
-  2004
-  2010

 LiDAR 1m Bare Earth

Location Data  9.5 River Miles

-  Town Sites
-  Rivers and Streams (Perennial)
-  Geomorphic Reach Breaks

Data and Sources
 Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Locations - Channel Planform, U.S. Bureau of Reclamation; "Wetted" channel alignments delineated by geomorphic reach based on aerial imagery and a pre-dredging plat map (YF2). Created by tributary assessment Geology and River Systems Analysis staff.

Yankee Fork Watershed Boundary - HydroUnit_8th_WBD, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

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Rivers and Streams - NHD Flowlines, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

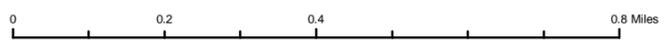
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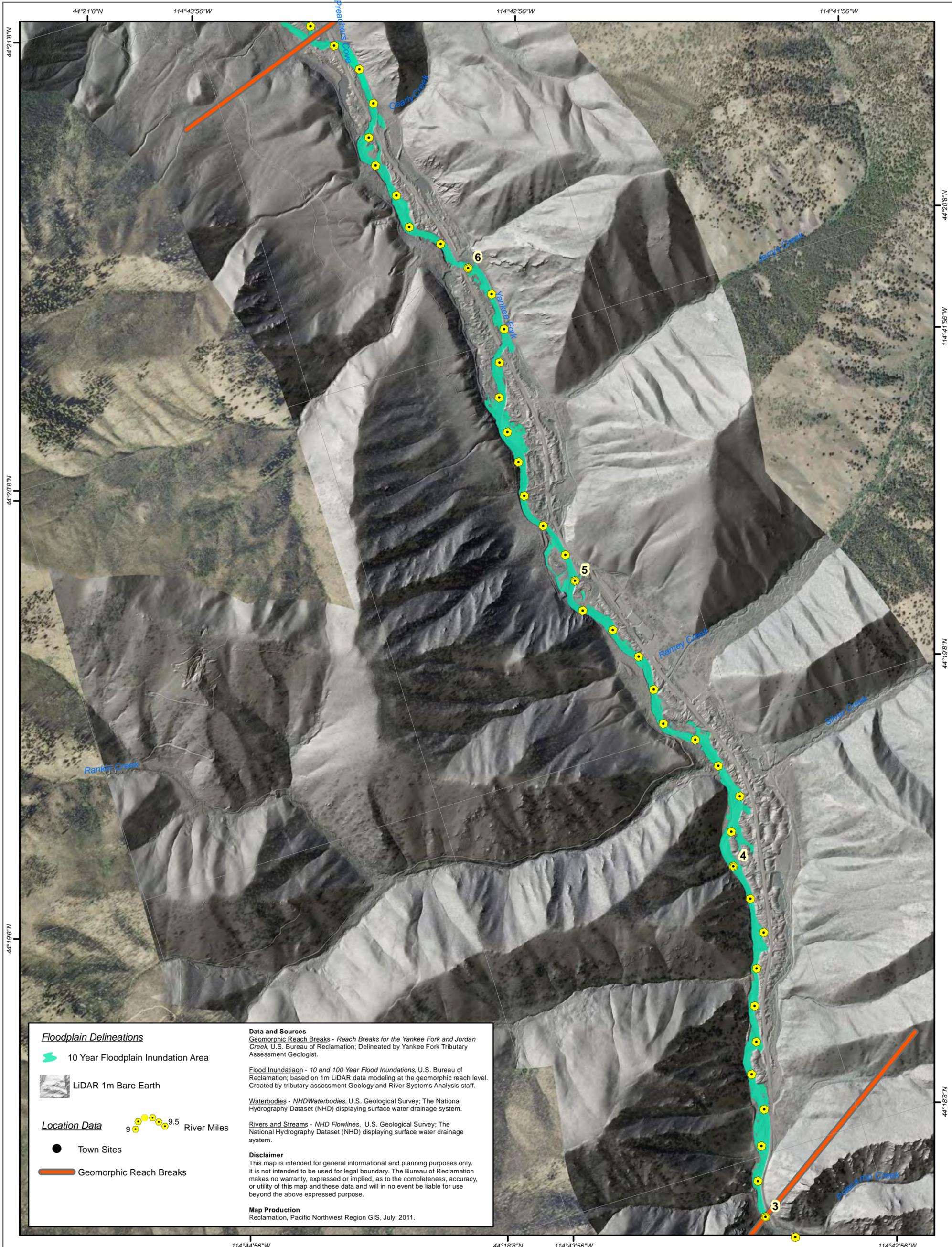
Map Production
 Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho**

Lower Yankee Fork Channel Planform - Panel YF2

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Managing Water in the West





Floodplain Delineations

10 Year Floodplain Inundation Area

LiDAR 1m Bare Earth

Location Data 9.5 River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

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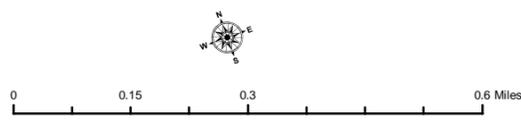
Map Production

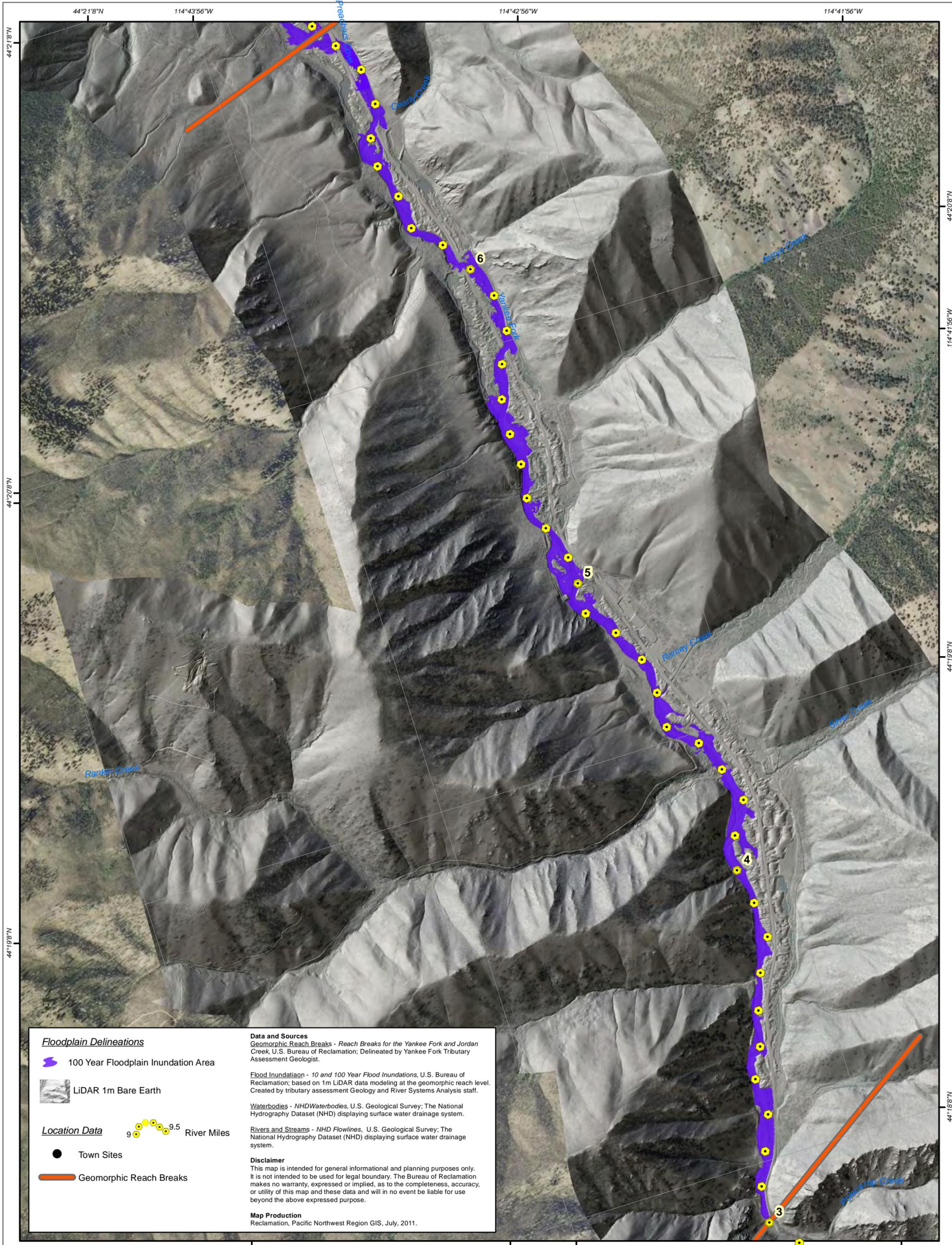
Reclamation, Pacific Northwest Region GIS, July, 2011.

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

10-Year Floodplain Inundation - Panel YF2

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Managing Water in the West





Floodplain Delineations

100 Year Floodplain Inundation Area

LiDAR 1m Bare Earth

Location Data River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

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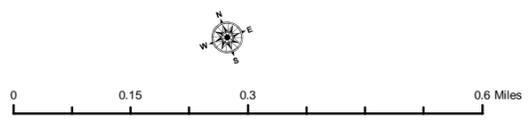
Map Production

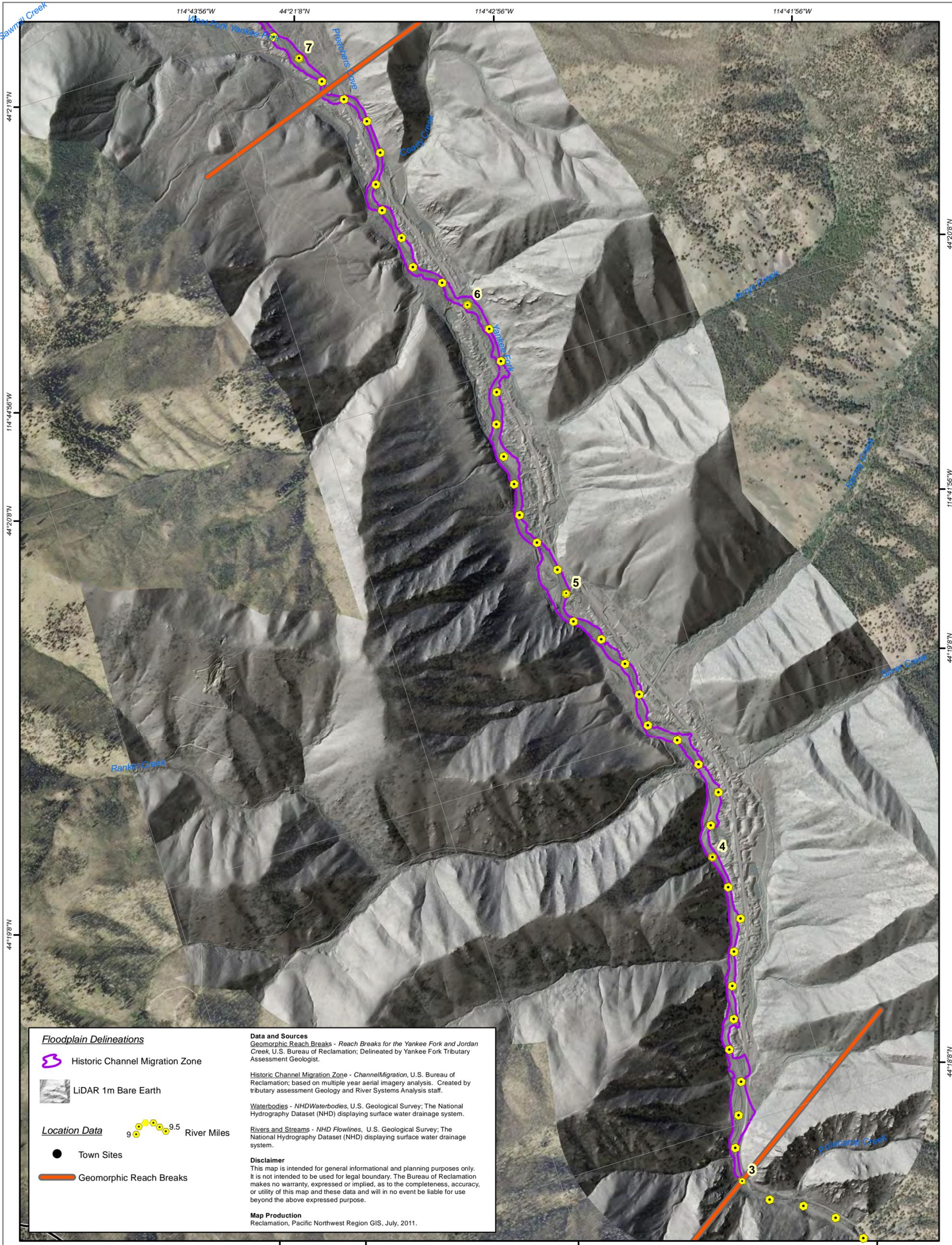
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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

100-Year Floodplain Inundation - Panel YF2

RECLAMATION
Managing Water in the West





Floodplain Delineations

Historic Channel Migration Zone

LiDAR 1m Bare Earth

Location Data 9.5 River Miles

Town Sites

Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - Reach Breaks for the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Migration Zone - Channel Migration, U.S. Bureau of Reclamation; based on multiple year aerial imagery analysis. Created by tributary assessment Geology and River Systems Analysis staff.

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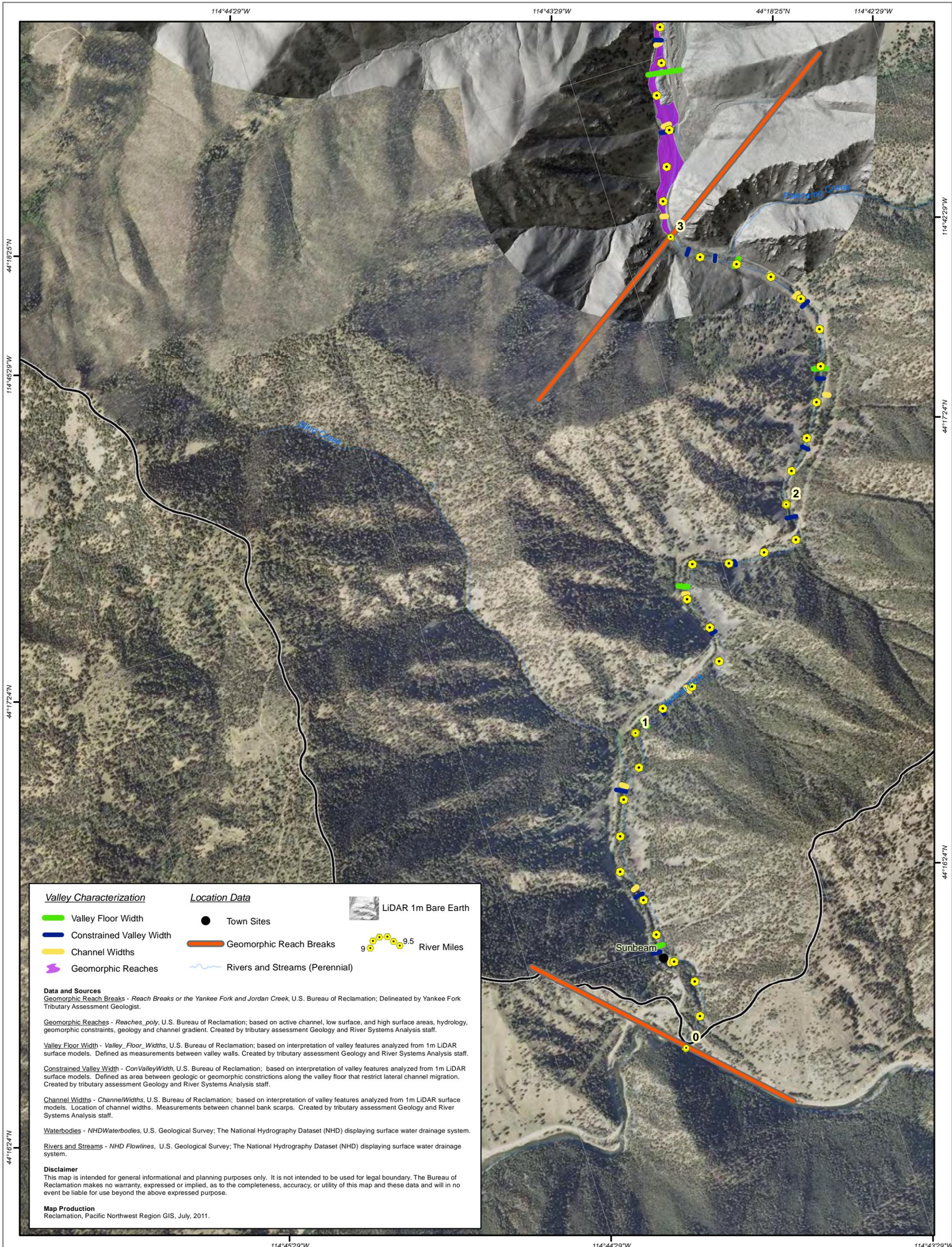
Map Production

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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel YF2

RECLAMATION
Managing Water in the West



Valley Characterization

- Valley Floor Width
- Constrained Valley Width
- Channel Widths
- Geomorphic Reaches

Location Data

- Town Sites
- Geomorphic Reach Breaks
- Rivers and Streams (Perennial)

Data and Sources

- Geomorphic Reach Breaks** - Reach Breaks or the Yankee Fork and Jordan Creek, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.
- Geomorphic Reaches** - Reaches_poly, U.S. Bureau of Reclamation; based on active channel, low surface, and high surface areas, hydrology, geomorphic constraints, geology and channel gradient. Created by tributary assessment Geology and River Systems Analysis staff.
- Valley Floor Width** - Valley_Floor_Widths, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Defined as measurements between valley walls. Created by tributary assessment Geology and River Systems Analysis staff.
- Constrained Valley Width** - ConValleyWidth, U.S. Bureau of Reclamation; based on interpretation of valley features analyzed from 1m LiDAR surface models. Defined as area between geologic or geomorphic constrictions along the valley floor that restrict lateral channel migration. Created by tributary assessment Geology and River Systems Analysis staff.
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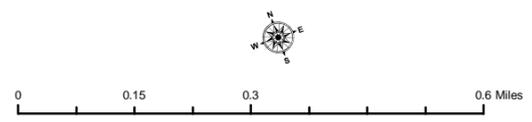
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Map Production
 Reclamation, Pacific Northwest Region GIS, July, 2011.

Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Managing Water in the West

Lower Yankee Fork Valley Characteristics - Panel YF1



114°43'56"W 44°18'8"N 114°42'56"W

44°18'8"N

114°44'56"W

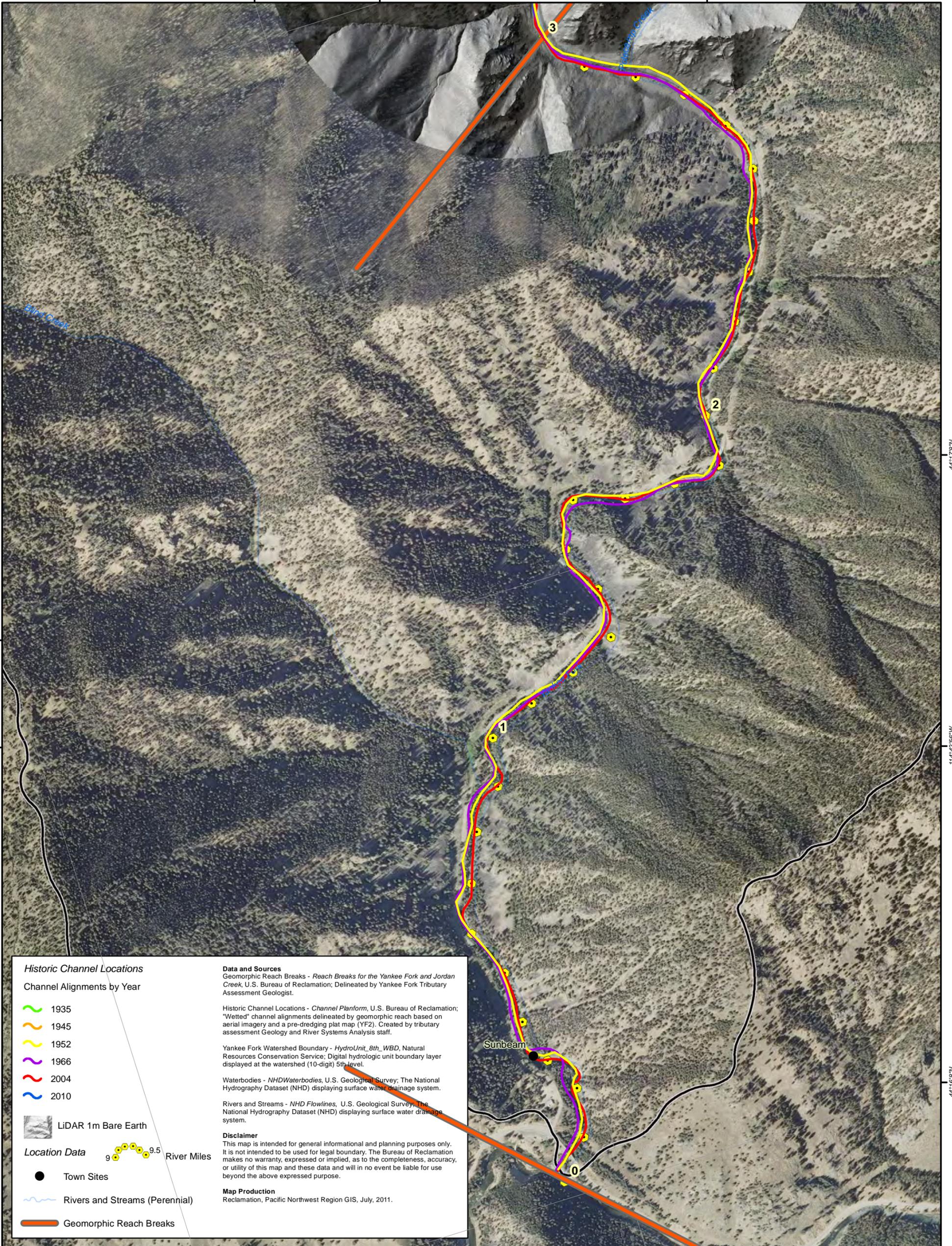
44°17'8"N

44°17'8"N

114°42'56"W

44°16'8"N

114°44'56"W 44°16'8"N 114°43'56"W



Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

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Lower Yankee Fork Channel Planform - Panel YF1



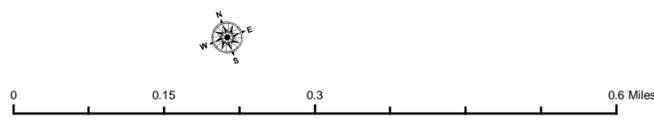
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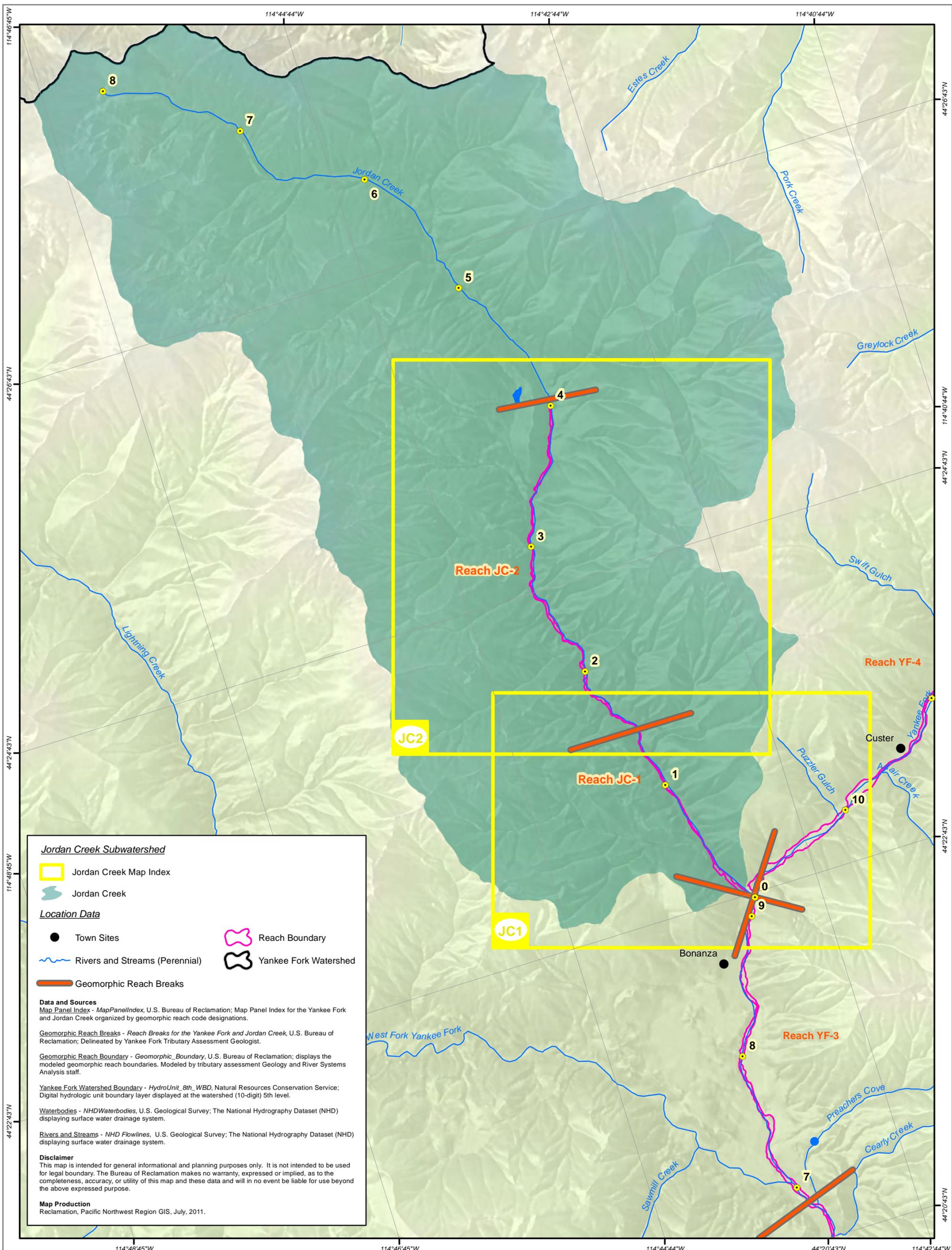


**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel YF1

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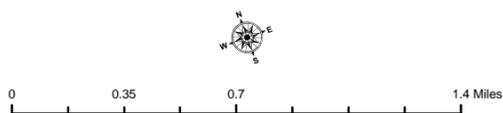


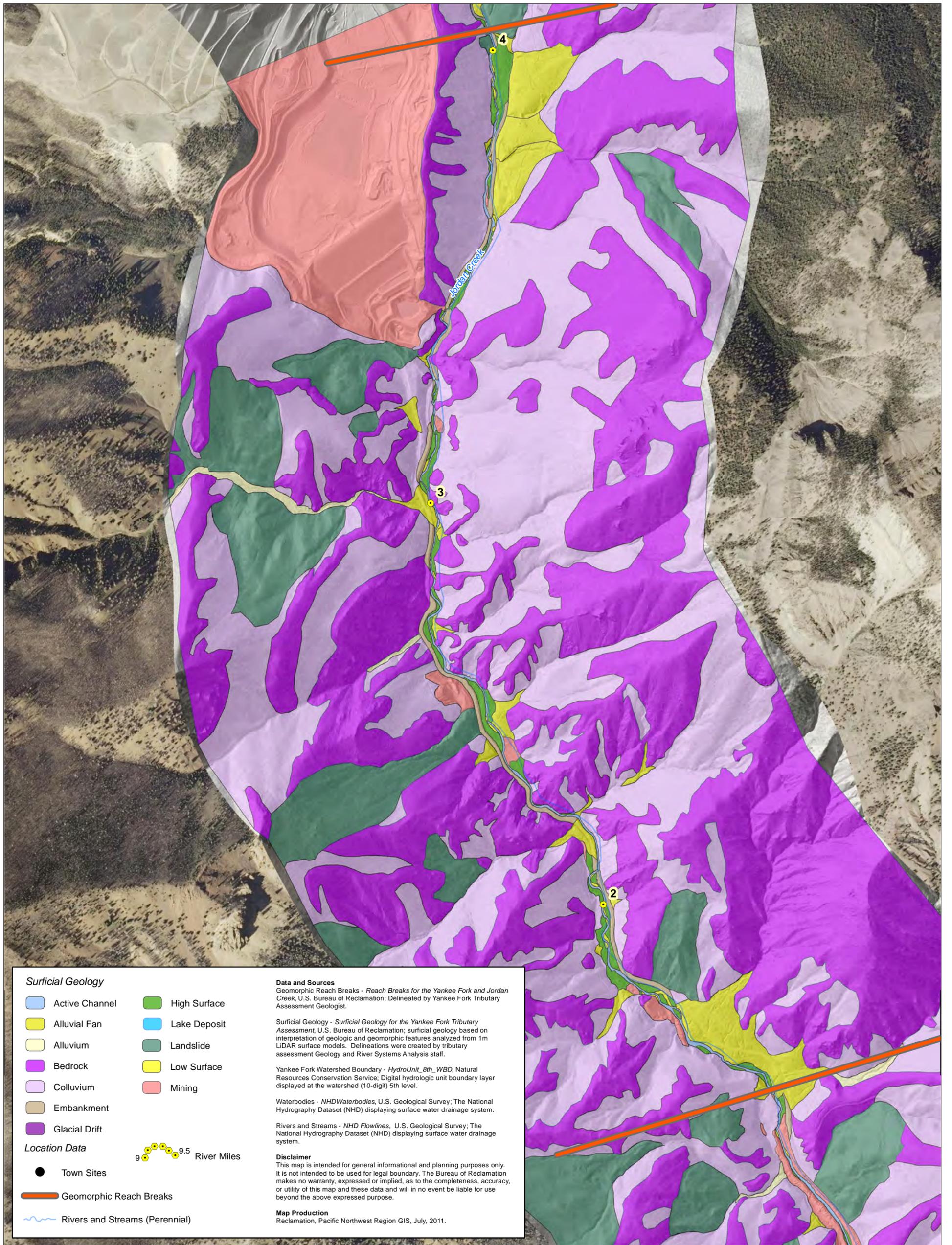


Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Jordan Creek Subwatershed Map Index

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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

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Jordan Creek Surficial Geology - Panel JC2





Valley Characterization

- Valley Floor Width
- Constrained Valley Width
- Channel Widths
- Geomorphic Reaches

Location Data

- Town Sites
- Geomorphic Reach Breaks
- Rivers and Streams (Perennial)

Data and Sources

- Geomorphic Reach Breaks - *Reach Breaks or the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.
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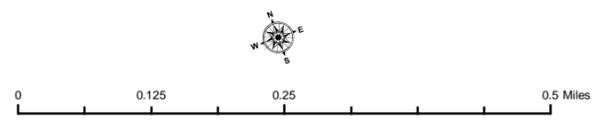
Map Production

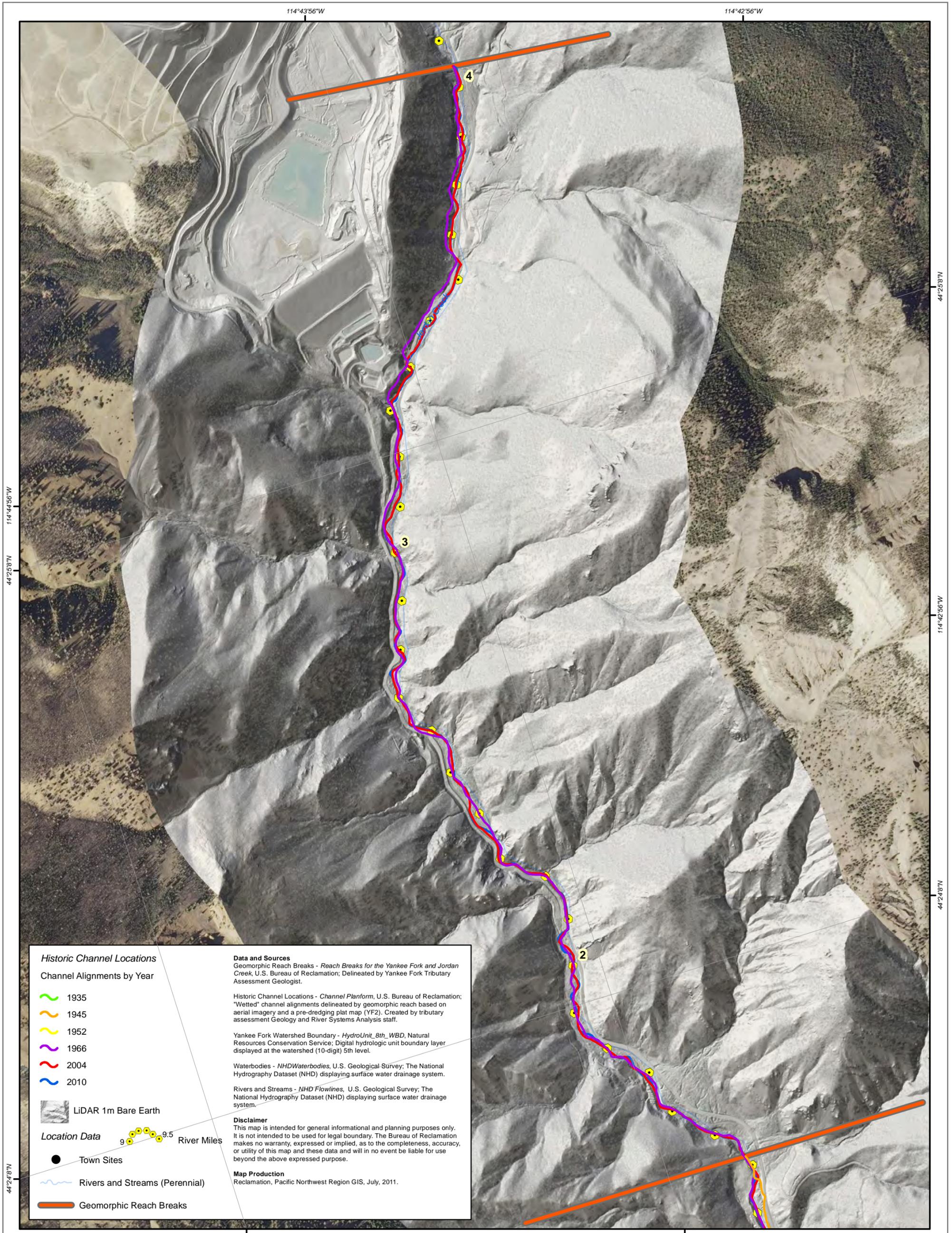
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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Jordan Creek Valley Characteristics - Panel JC2

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Historic Channel Locations

Channel Alignments by Year

-  1935
-  1945
-  1952
-  1966
-  2004
-  2010

 LiDAR 1m Bare Earth

Location Data  9 9.5 River Miles

-  Town Sites
-  Rivers and Streams (Perennial)
-  Geomorphic Reach Breaks

Data and Sources

Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Historic Channel Locations - *Channel Planform*, U.S. Bureau of Reclamation; "Wetted" channel alignments delineated by geomorphic reach based on aerial imagery and a pre-dredging plat map (YF2). Created by tributary assessment Geology and River Systems Analysis staff.

Yankee Fork Watershed Boundary - *HydroUnit_8th_WBD*, Natural Resources Conservation Service; Digital hydrologic unit boundary layer displayed at the watershed (10-digit) 5th level.

Waterbodies - *NHDWaterbodies*, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Jordan Creek Channel Planform - Panel JC2

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114°43'56"W

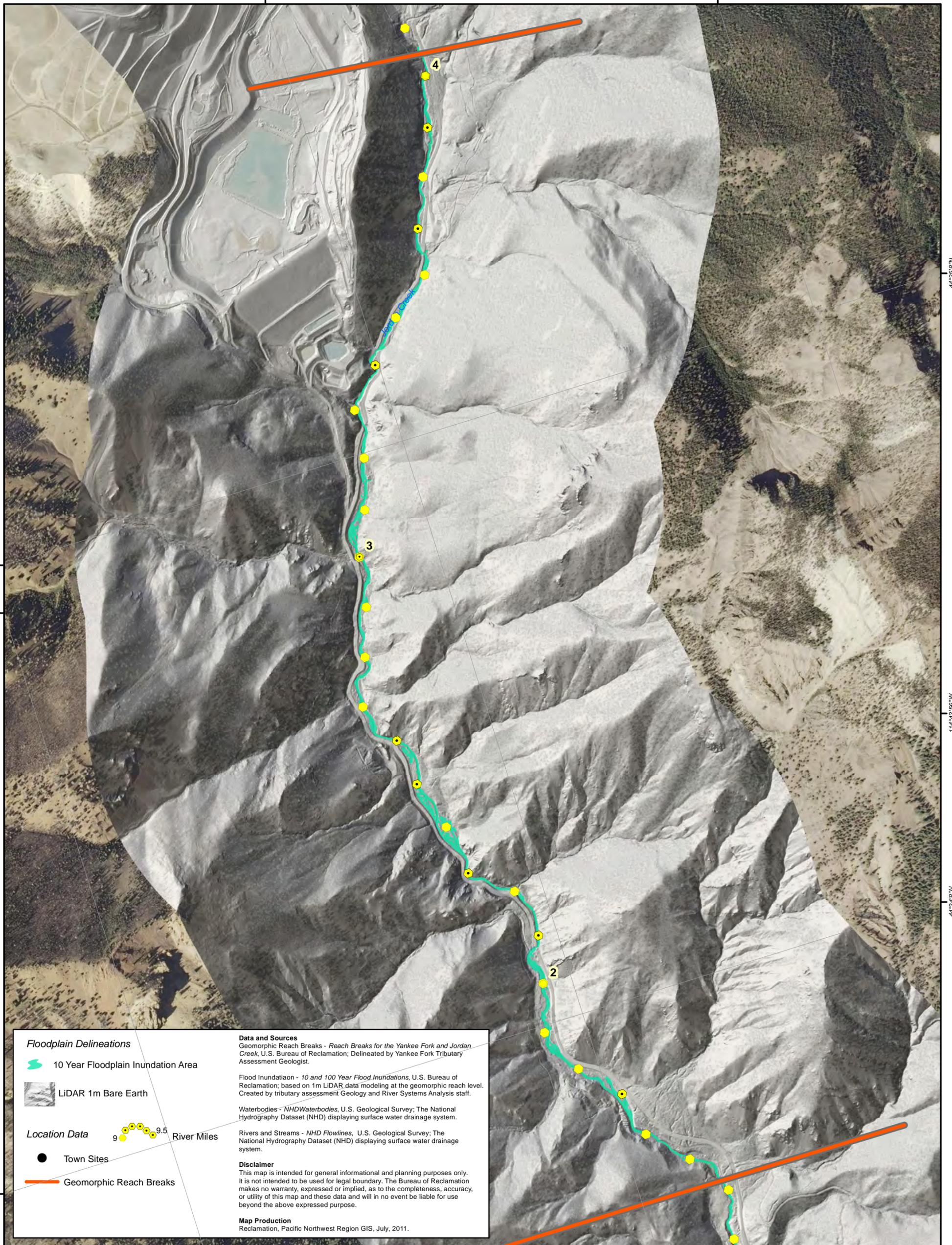
114°42'56"W

114°44'56"W 44°25'8"N

44°25'8"N

114°42'56"W

44°24'8"N



Floodplain Delineations

- 10 Year Floodplain Inundation Area
- LiDAR 1m Bare Earth

Location Data

- Town Sites
- Geomorphic Reach Breaks

Data and Sources
 Geomorphic Reach Breaks - *Reach Breaks for the Yankee Fork and Jordan Creek*, U.S. Bureau of Reclamation; Delineated by Yankee Fork Tributary Assessment Geologist.

Flood Inundation - 10 and 100 Year Flood Inundations, U.S. Bureau of Reclamation; based on 1m LiDAR data modeling at the geomorphic reach level. Created by tributary assessment Geology and River Systems Analysis staff.

Waterbodies - NHD Waterbodies, U.S. Geological Survey; The National Hydrography Dataset (NHD) displaying surface water drainage system.

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Yankee Fork Watershed Tributary Assessment
 Upper Salmon Subbasin, Idaho

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10-Year Floodplain Inundation - Panel JC2



0 0.125 0.25 0.5 Miles

114°43'56"W

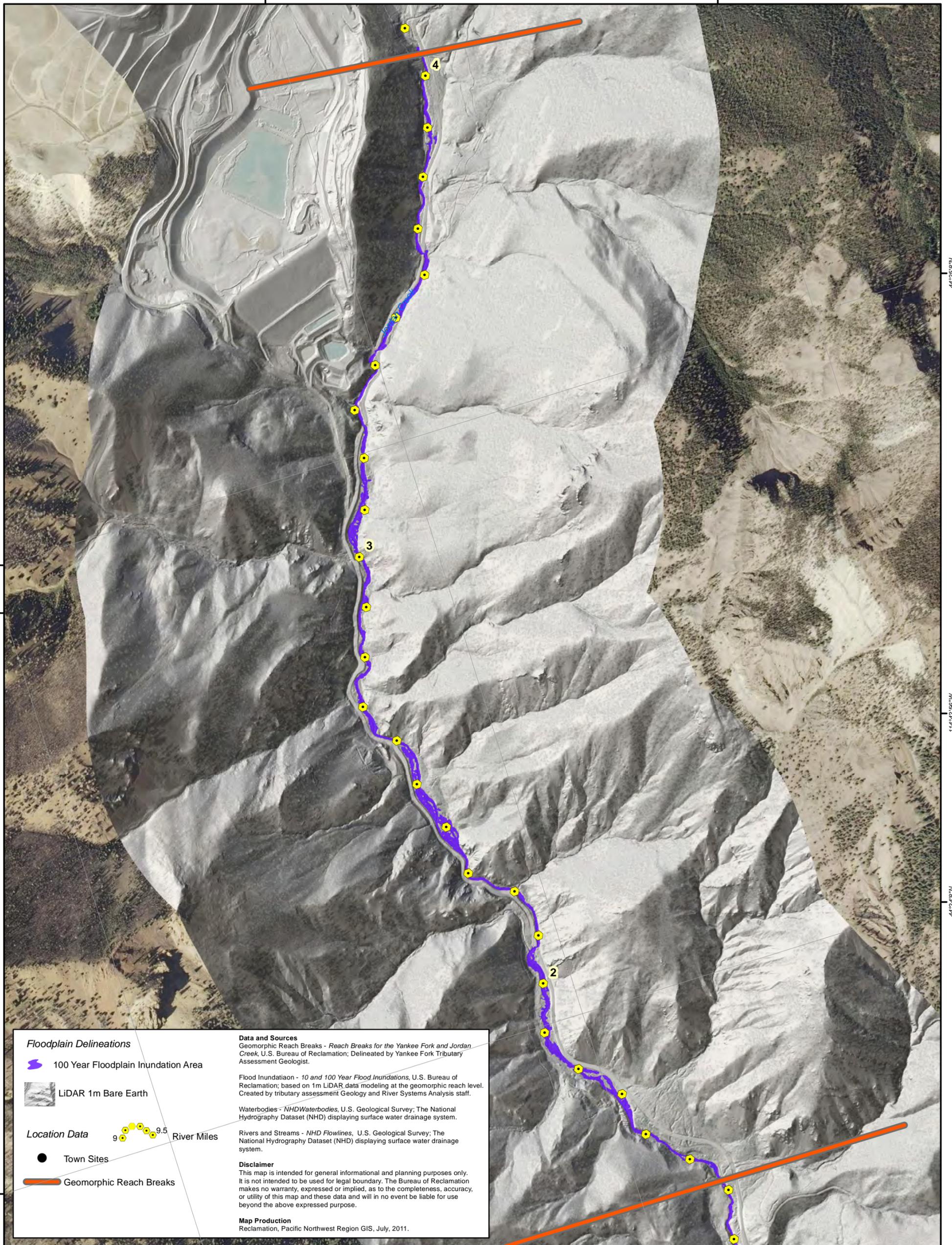
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114°44'56"W 44°25'8"N

44°25'8"N

114°42'56"W

44°24'8"N



**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

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100-Year Floodplain Inundation - Panel JC2





**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

Historic Channel Migration Zone - Panel JC2

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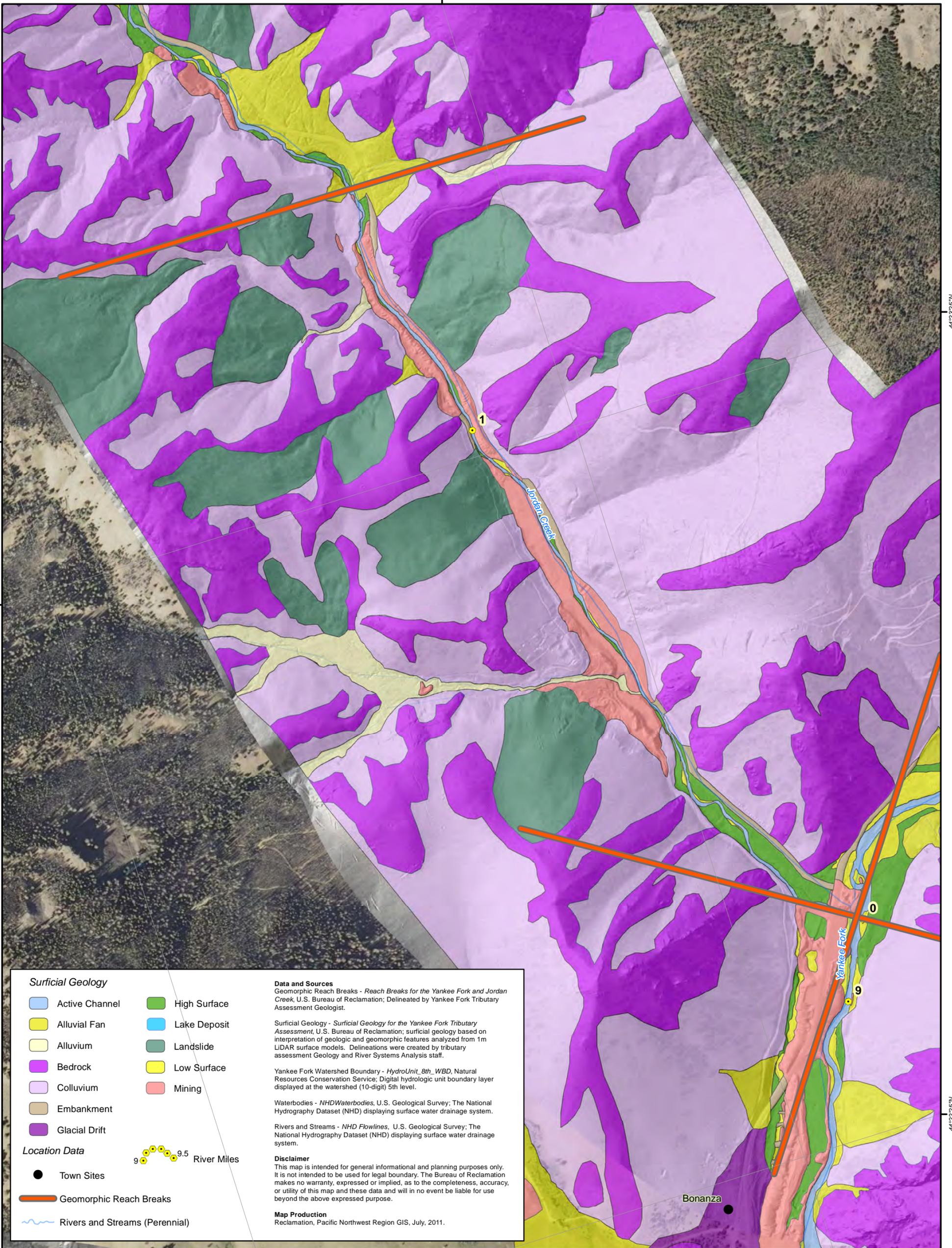
114°43'29"W

114°44'29"W

44°23'25"N

44°23'25"N

44°22'25"N



Surficial Geology

- Active Channel
- Alluvial Fan
- Alluvium
- Bedrock
- Colluvium
- Embankment
- Glacial Drift
- High Surface
- Lake Deposit
- Landslide
- Low Surface
- Mining

Location Data

- Town Sites
- Geomorphic Reach Breaks
- Rivers and Streams (Perennial)

9 9.5 River Miles

Data and Sources
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114°44'29"W

44°22'25"N

114°43'29"W

Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

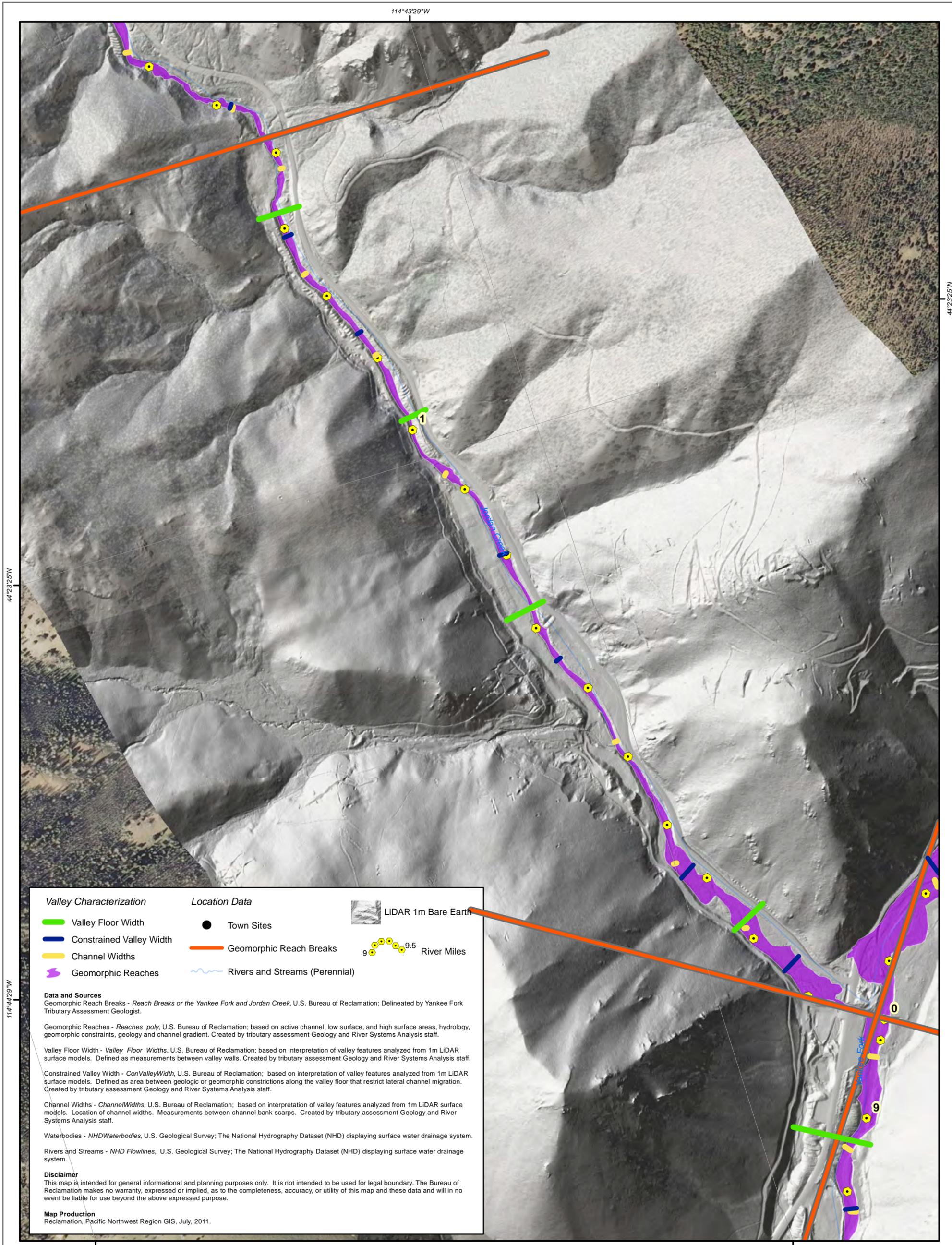
Jordan Creek Surficial Geology - Panel JC1

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Managing Water in the West



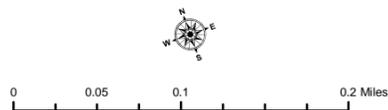
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Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

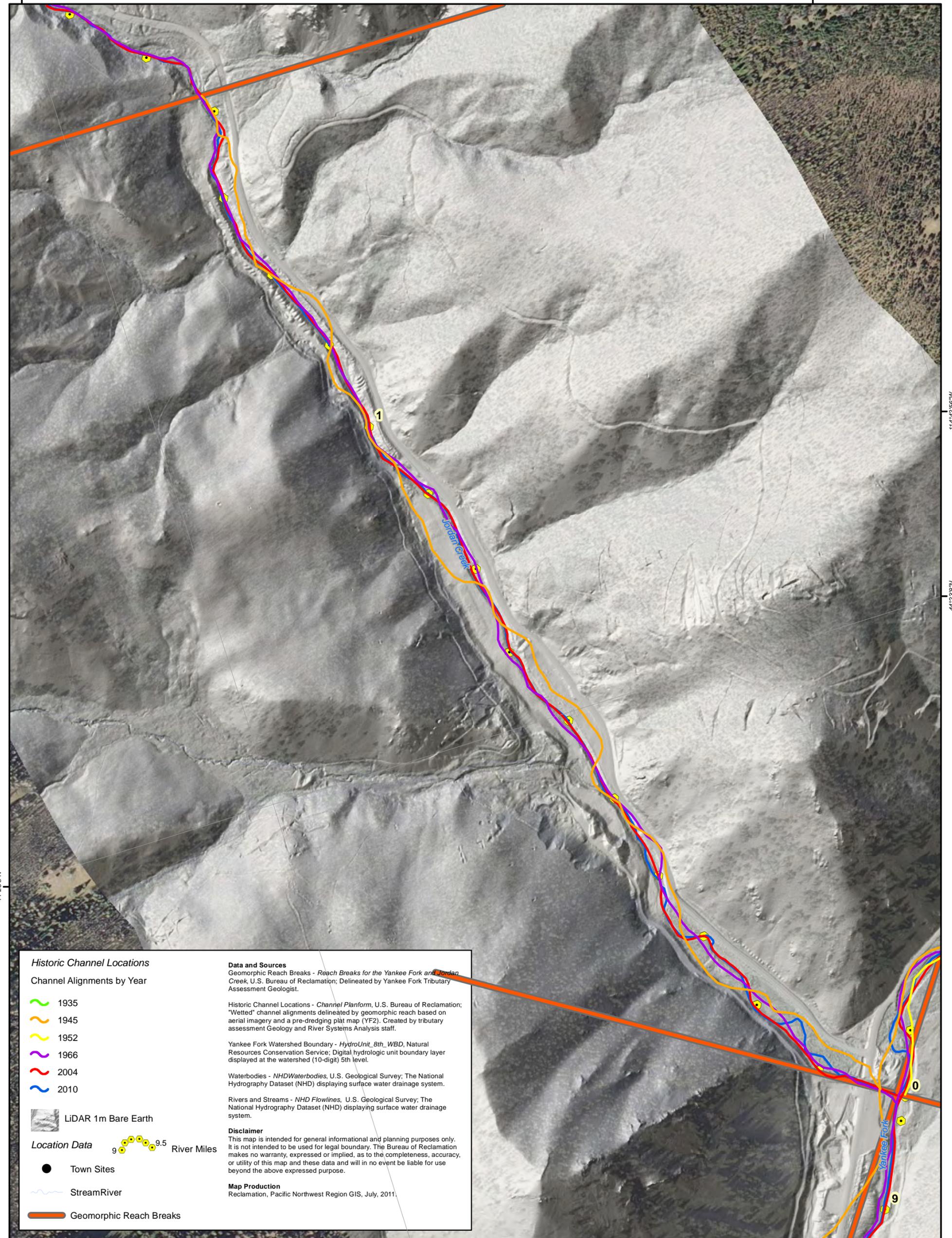
Jordan Creek Valley Characteristics - Panel JC1

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Managing Water in the West



114°43'56"W

114°42'56"W



44°23'8"N

114°42'56"W
44°23'8"N

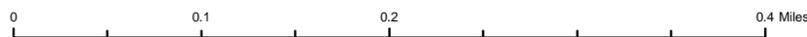
114°43'56"W

Yankee Fork Watershed Tributary Assessment Upper Salmon Subbasin, Idaho

Jordan Creek Channel Planform - Panel JC1

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114°42'56"W

114°43'56"W

114°42'56"W

44°23'8"N

44°23'8"N

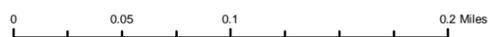


114°43'56"W

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

10-Year Floodplain Inundation - Panel JC1

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Managing Water in the West



114°42'56"W

114°43'56"W

114°42'56"W

114°42'56"W

44°23'8"N

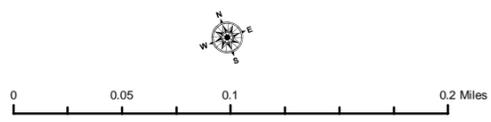


114°43'56"W

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

100-Year Floodplain Inundation - Panel JC1

RECLAMATION
Managing Water in the West



114°42'56"W

114°43'56"W

114°42'56"W

44°23'8"N

44°23'8"N



114°43'56"W

**Yankee Fork Watershed Tributary Assessment
Upper Salmon Subbasin, Idaho**

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Historic Channel Migration Zone - Panel JC1

