

Attendees

Danielle Favreau  
 Linda Davis  
 Karla Baker  
 Cyndi Coulter  
 Thomas Ritthaler  
 Genna Ashley  
 Dan Narsavage  
 Joey Diehl

Al Rea  
 Brock Dille  
 Sydney Lewis  
 Wendy Hawley  
 John Courtright  
 Sabine Krier  
 Missy Harris

USGS Updates (Danielle Favreau)

- August 13<sup>th</sup> was the 20<sup>th</sup> Anniversary of NHD
- Tools
  - NHD Tool
    - v. 6.1.0 is not good. If you installed it, uninstall it and use v. 6.0.1
    - March timeframe for the tools for 10.2
  - WBD edit tool v. 2.0 is available
    - 10.2 tool due in 2014
  - Both datasets (NHD and WBD) are packaged together, but have different tool sets and training available.
- Training – contact Danielle or Hank
  - TEM on Wednesdays @ 12:00PM EST (1<sup>st</sup> and 3<sup>rd</sup> Wednesdays)
    - Join myUSGS for call in information and agendas
      - [https://my.usgs.gov/confluence/login.action?os\\_destination=%2Fdashboard.action](https://my.usgs.gov/confluence/login.action?os_destination=%2Fdashboard.action)
  - Stewardship betasite – check out the tools, try something new, or just see how it works
    - <http://usgs-mrs.cr.usgs.gov/stewardbeta/>
  - Newsletters
    - [http://nhd.usgs.gov/newsletter\\_list.html](http://nhd.usgs.gov/newsletter_list.html)
    - June 2013 Newsletter – how wide is a double wide stream?
      - Refer to the Feature Catalog:  
[http://nhd.usgs.gov/userguide.html?url=NHD\\_User\\_Guide/Feature\\_Catalog/NHD\\_Feature\\_Catalog.htm](http://nhd.usgs.gov/userguide.html?url=NHD_User_Guide/Feature_Catalog/NHD_Feature_Catalog.htm)

Feature	Scale	Width, ft.	Feature	Scale	Width, ft.
NHDArea – S/R	1:24000	50	NHDWaterbody - Lake	1:24000	100
NHDArea – S/R	1:10000	20	NHDWaterbody - Lake	1:10000	40
NHDArea – S/R	1:5000	10	NHDWaterbody - Lake	1:5000	20

- Staff Changes
  - Sheri Schneider is the new liaison for NHD
    - Sheri is based in Portland. Her contact info is [sschneider@usgs.gov](mailto:sschneider@usgs.gov) 503-310-1531.
  - POC is still Hank Nelson, but he is very busy as the POC's have gone from 5 to 4.
  - WBD POC is Stephen Daw
- Digitize HUC at a common scale
  - 1:24000, 1:10000, 1:5000

#### TIM Framework Dataset Updates (Danielle Favreau)

- See powerpoint.
- Proposed guideline workflow for gold standard datasets
  - Outlines that TWG will present, review and approve or disapprove nominated datasets
  - Implies a data exchanges standard that TWG needs to codify
- Survey - closes Feb. 7
  - <https://www.surveymonkey.com/s/RXPVQ2Y>

#### Coeur d'Alene Tribe (Sabine Krier)

- Working on stream layers in reservation only
  - 340,000 acres
  - 4 subbasins (only part of them)
  - Using 1m LiDAR layer flown in 2005 and 1 ft. pictometry flown in 2011
- Have only done spatial/geometry edits
  - using NHD layers for map
  - will attach fisheries and other important features eventually
- Tools
  - Have had most problems with QC errors
    - Got most errors from splitting and merging features and relating to the related tables (Reach codes)
  - Have mostly modified existing lines, but have added some new
  - QC tools say there is an error but not what the error is or how to fix it. It is confusing.
- Problems
  - Had some problems downloading tools, but it was user error. They needed a license from NHD
  - Videos in the help menu are very helpful.
  - Will the 10.2 tools work for 10.2.1. Danielle doesn't know, but she will ask.

#### Contracts Updates (Danielle Favreau)

- See powerpoint.
- All the projects are posted on the IDWR website.
  - [http://www.idwr.idaho.gov/GeographicInfo/NHD/Projects/customized\\_tool.htm](http://www.idwr.idaho.gov/GeographicInfo/NHD/Projects/customized_tool.htm)

Strahler Stream Order Project (Danielle Favreau)

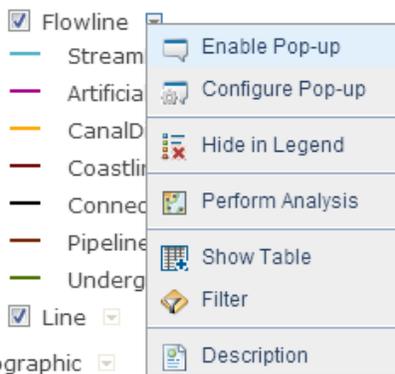
- will be bulk loaded into NHDFlowlineVAA table at end of the project
- See powerpoint

Ele/Hydro Project (Danielle Favreau)

- See powerpoint
- 3DEP= 3D Elevation Program
- Alaska is trying to update to 24K scale. Glaciers present a challenge as they move and water moves across them in changing patterns
- Congress is working on a 1m LiDAR program nationally (Al Rea, USGS)
  - Might make LiDAR products come down in prices

National map website has a link for web services has a NHD service. (Al Rea)

- You can find all the attributes, products and services.
- Here is a link to The National Map services list:
  - <http://viewer.nationalmap.gov/example/services/serviceList.html>
- About halfway down the list of Base Data Layers is the link to what I find is the most useful of the NHD map services:
  - <http://services.nationalmap.gov/ArcGIS/rest/services/nhd/MapServer>
- If you open this in ArcGIS.com, you'll find it displays at different scales nicely, and all the attributes are there. However, to see the attributes of a layer, you need to Enable the pop-up for that layer in ArcGIS.com. To do that, click the Details button in the upper left, next to the Basemap selector. In the Details pane, click on the Content tab. Click on the nhd layer to expand it, and do the same with the High Resolution layer. Click the down-arrow next to the Flowline layer, and choose Enable Pop-up, like this:



- Once you've done this, you can click on any flowline and the pop-up will show the attributes. You can enable pop-ups on the other layers, too.

#### The NHD Viewer (Al Rea)

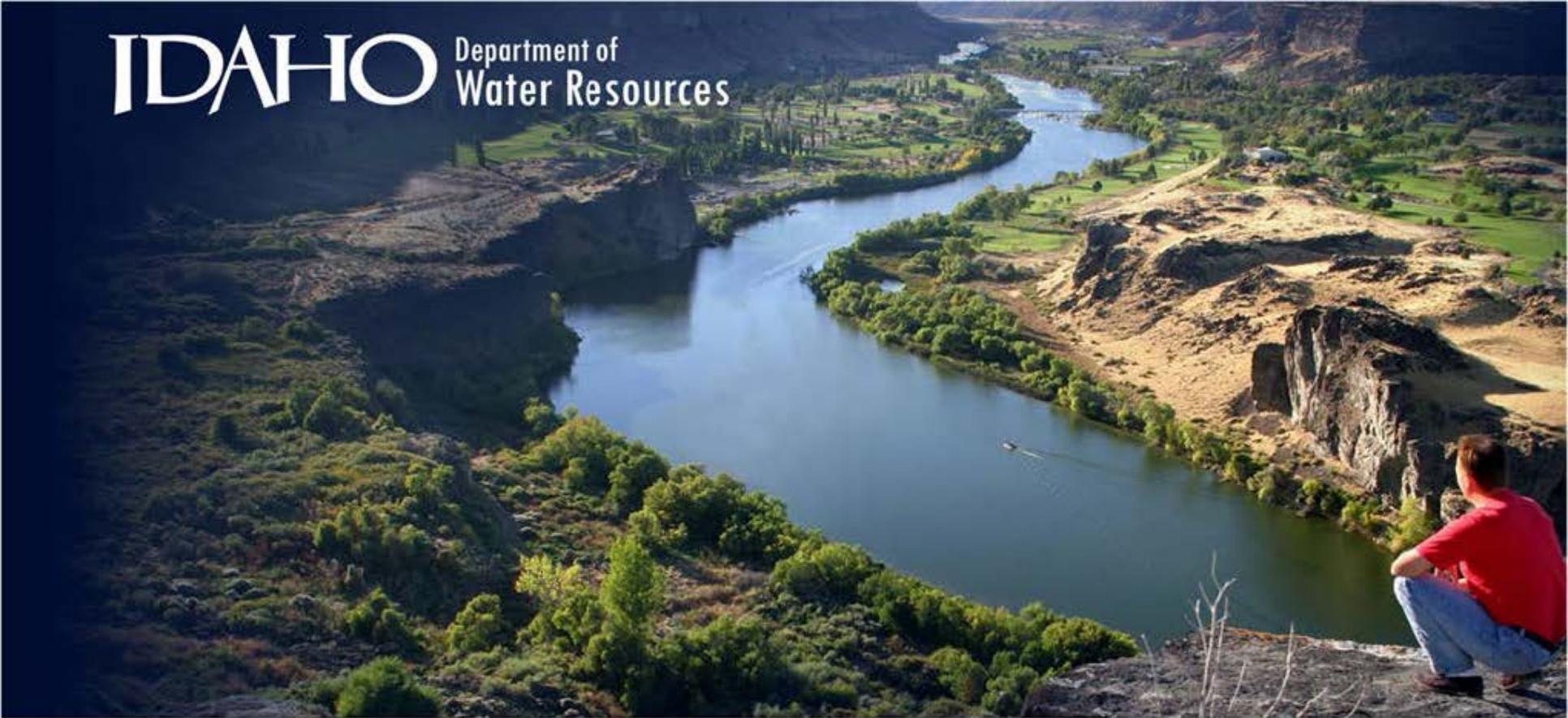
- <http://viewer.nationalmap.gov/viewer/nhd.html?p=nhd>
- Al is curious to hear any feedback people have about it, good, bad, or indifferent.
- Question: Do people find it useful, and if so, how do they use it?
- Ahrea@usgs.gov

#### Streamer (Danielle Favreau)

- [Nationalatlas.gov/streamer/streamer/welcome.html](http://Nationalatlas.gov/streamer/streamer/welcome.html)
- National Atlas Streamer Map is out there to look at.

#### Upcoming events (Danielle Favreau)

- See powerpoint
- Next Hydro TWG meeting probably in July – watch [gis.idaho.gov](http://gis.idaho.gov) for exact date



# TIM Framework Dataset Updates

Idaho Hydrography Technical Working Group Meeting – Jan. 29, 2014

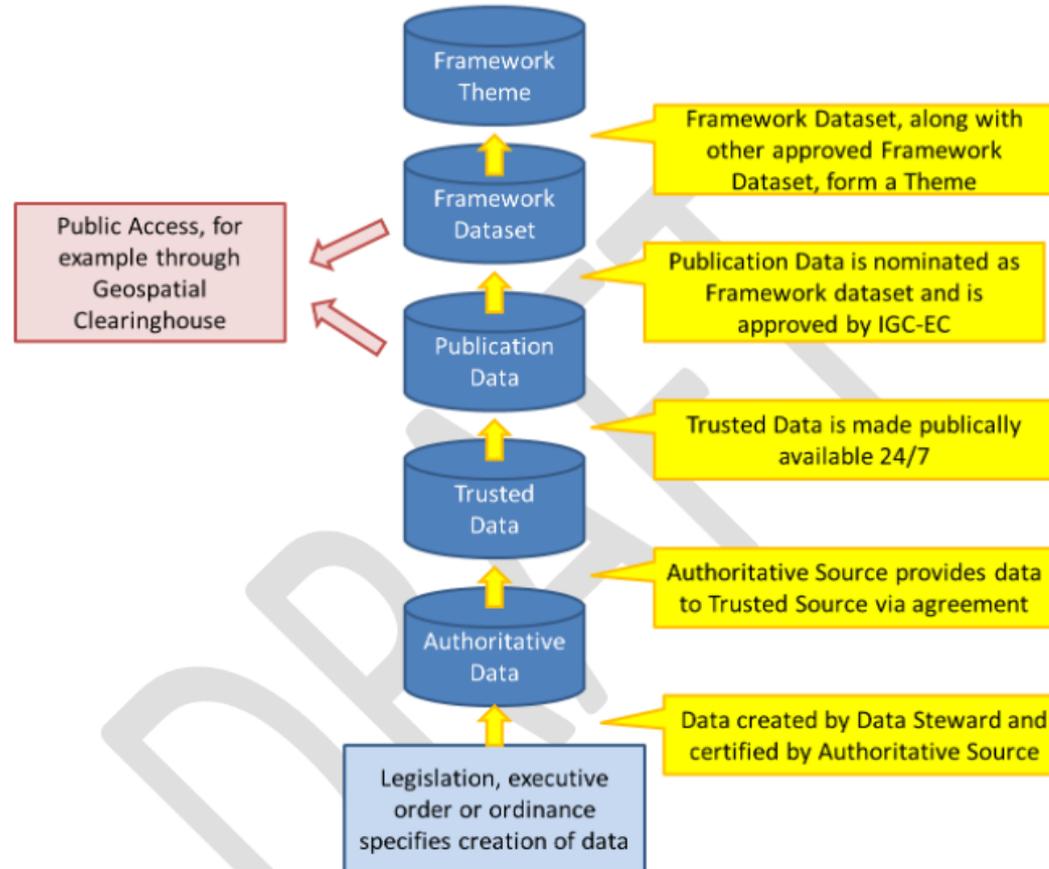
Idaho Department of Water Resources



VI. APPENDIX

Appendix A – Workflow for establishing TIM Framework Datasets

The  
Guideline



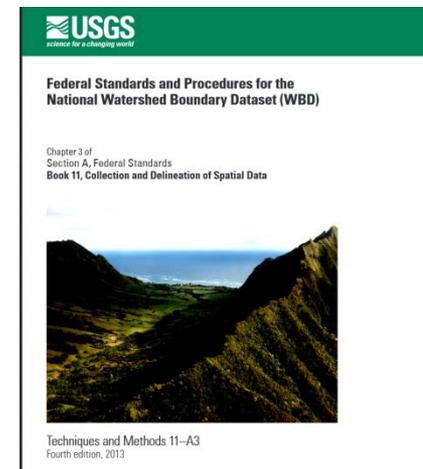
This diagram represents the basic workflow for recognizing a Framework Dataset as all or part of a TIM Framework Data Theme.

<http://www.tax.idaho.gov/ptt/gised/Misc/TIMFrameworkDataset.pdf>

## What does this mean for the Hydro TWG?

- Dataset Nominations
  - The TWG reviews all nominations
  - The TWG will recommend to approve or disapprove a nomination
  - The TWG arbitrates

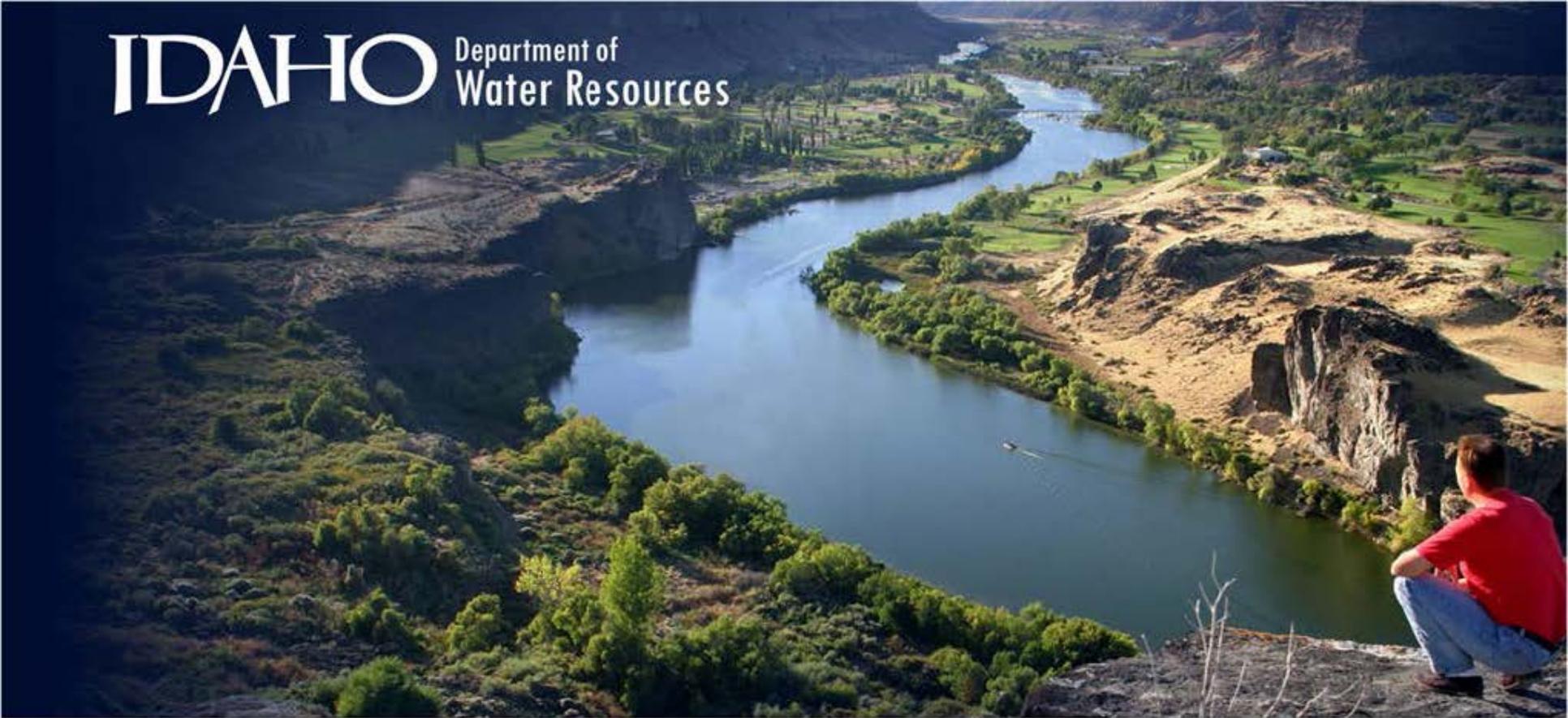
- Standards
  - Data Exchange Standard



## The Guideline Survey

<https://www.surveymonkey.com/s/RXPVQ2Y>

- <http://www.tax.idaho.gov/ptt/gised/Misc/TIMFrameworkDataset.pdf>
- Next IGC-EC Meeting: Feb. 20



# IDWR/USGS Contract Updates

Idaho Hydrography Technical Working Group Meeting – Jan. 29, 2014

Idaho Department of Water Resources



# ***IDWR/USGS Contracts: 2012-2013***

- **Update Spring Feature Class:**
  - Based on IDWR WR POD Data
- **Names Update:**
  - Using the IDWR Water Rights Database
- **Update the Treasure Valley**
- **Update NHD using Canal Company Data**
  - Watson Canal Co., Falls Irrigation District, Idaho  
Irrigation District

## Update the Spring Feature Class

	Number Reviewed
Permits	809
Recommendations	1485
Water Rights	33032

Potential Additions	NHD	GNIS
Permits	135	67
Recommendations	318	16
Water Rights	2101	1920



## Update Names the NHD based on Water Right Data

Initial analysis complete

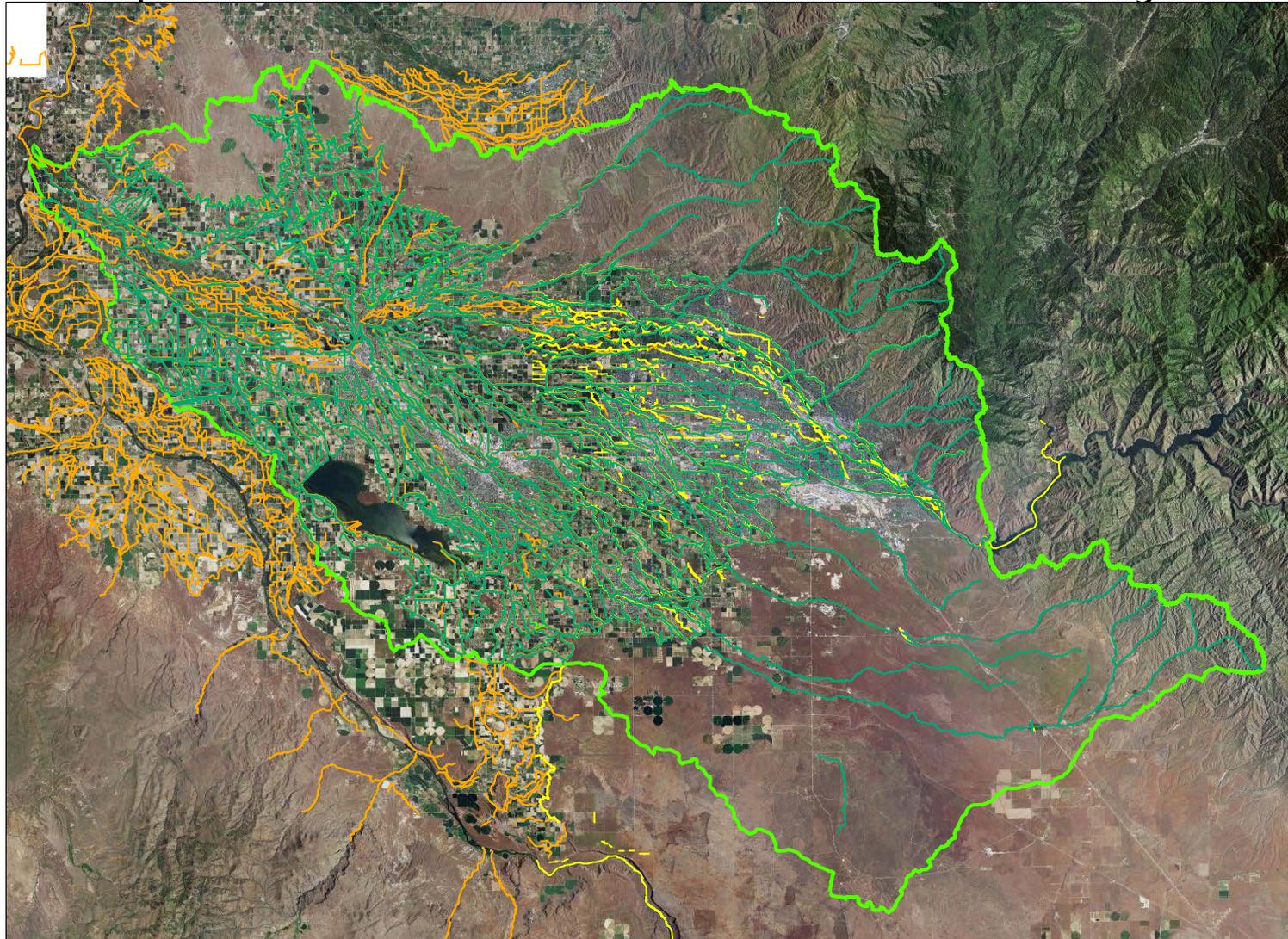
Rec. Review	WR Review
463	6732

Initial analysis incomplete

Rec. Review	WR Review
27	2133

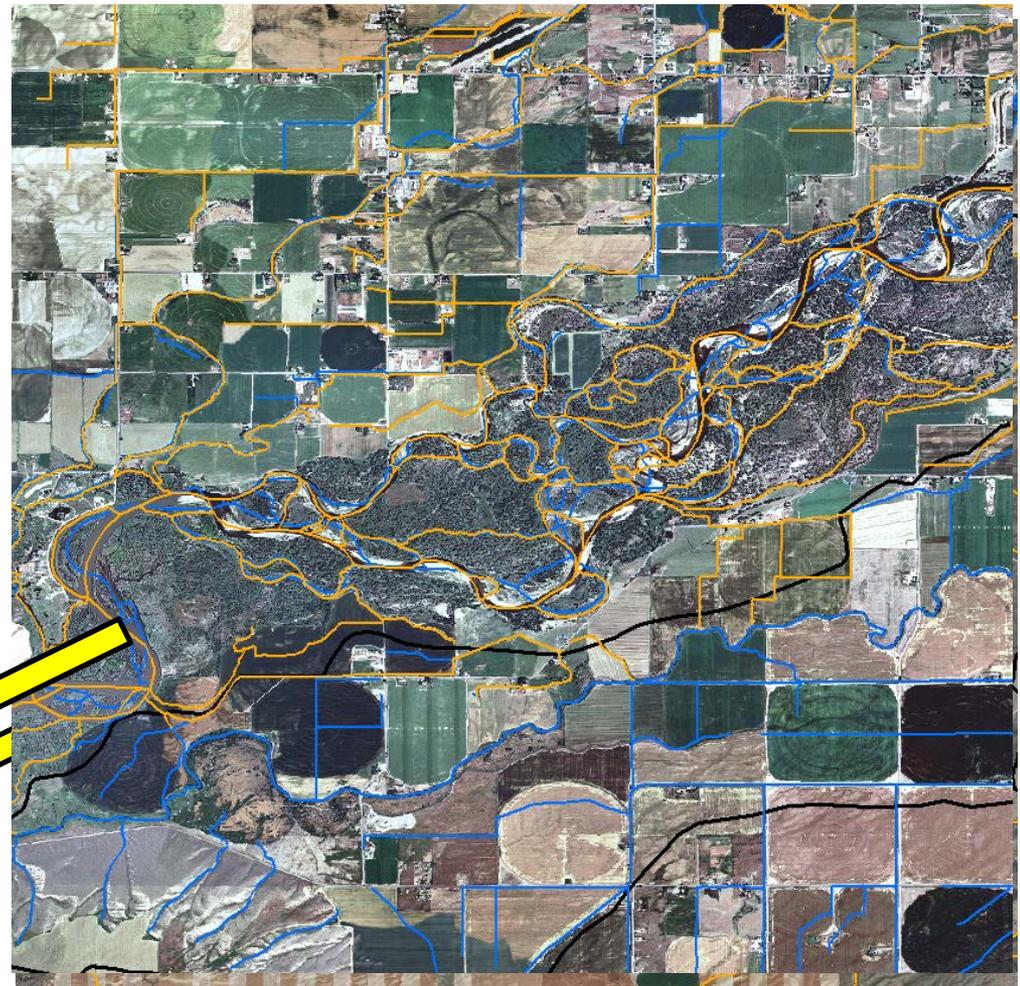
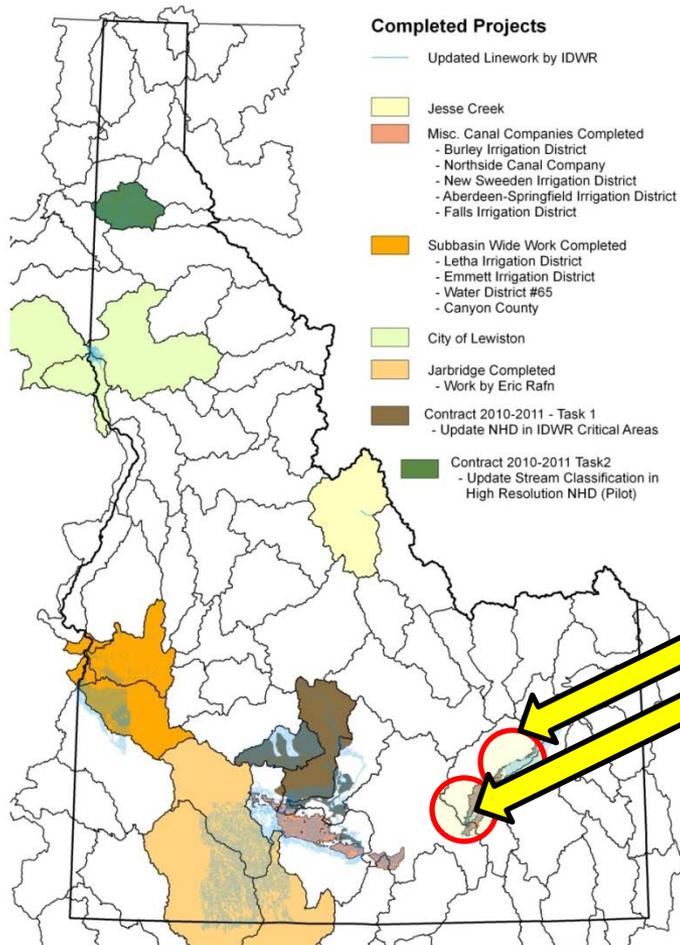


## Update the NHD in the Treasure Valley

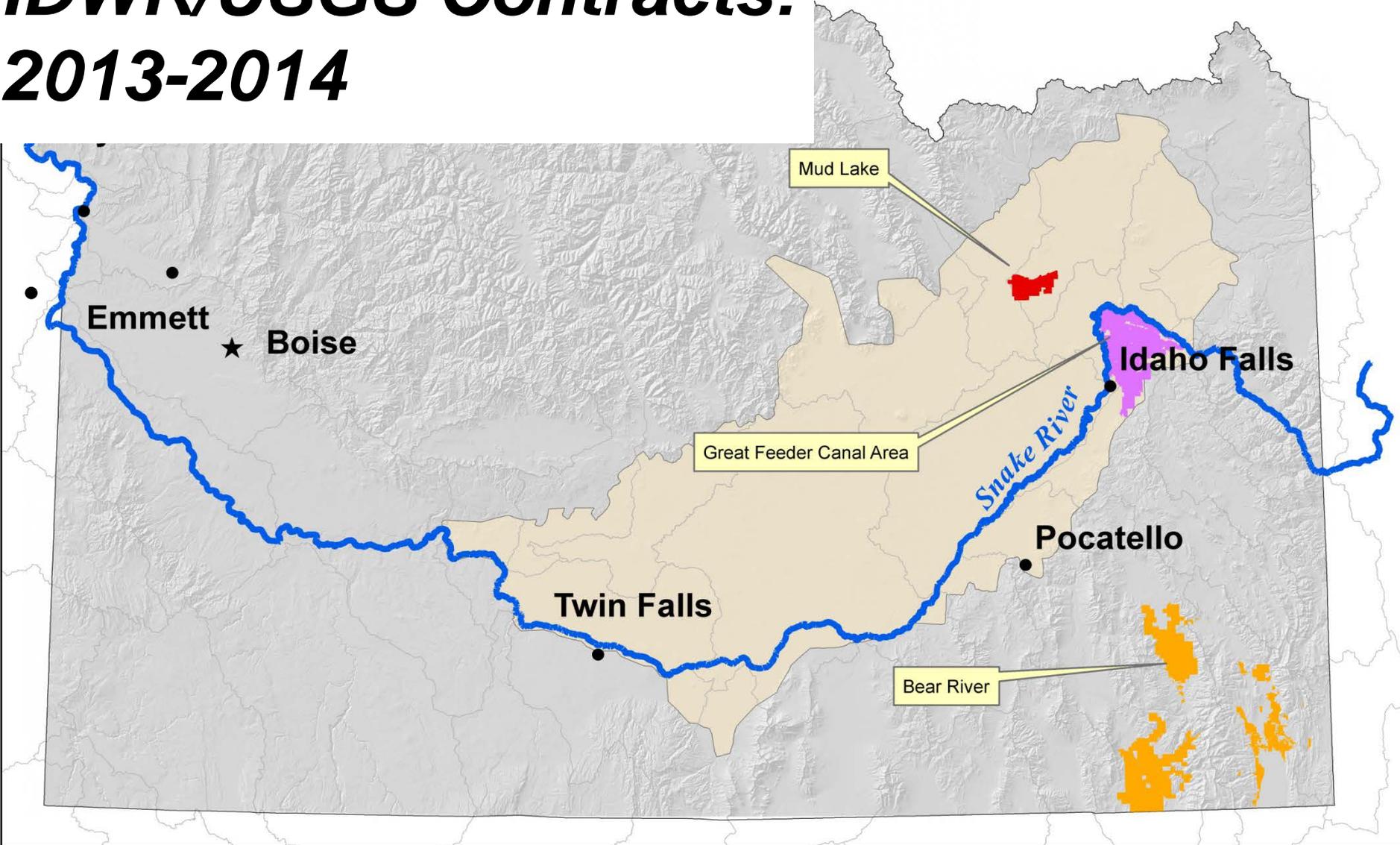


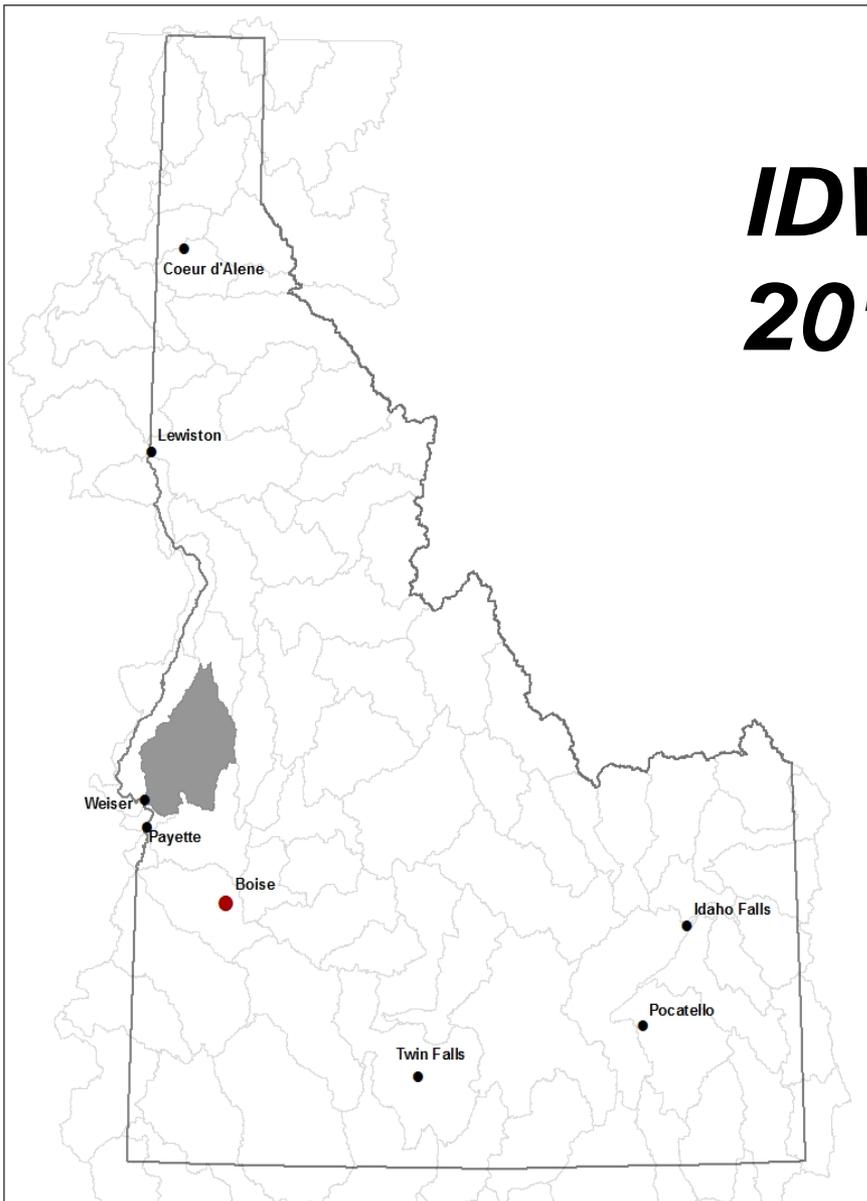
## Falls Irrigation District, Watson Canal Co.

NHD Updates  
January 2008 - Present



# ***IDWR/USGS Contracts: 2013-2014***





## ***IDWR/USGS Contracts: 2014-2015***

- **Update the Weiser River SubBasin (17050124)**

Google Custom Search

search

# IDAHO Department of Water Resources



A-Z Index

- Water Rights
- Wells
- Streams, Dams & Flooding
- Forms
- Water Data
- Maps & Spatial Data
- About IDWR

Maps National Hydrography Dataset

## National Hydrography Dataset & Watershed Boundary Dataset in Idaho

- General Information
- NHD
- WBD
- Projects

The Idaho Department of Water Resources is working cooperatively with several agencies on several National Hydrography Database and Watershed Boundary Dataset related projects. Please see the links for detailed overviews of projects.

- » Customized Tool for Collecting Limits
- » POD Events
- » Events Survey
- » Framework Integration
- » Idaho Pilot Project
- » Online NIID Editing Tool
- » Update NIID in Big Wood River Area (Water District 17)
- » Update Stream Classifications in Clear Fork Alene Lake Area (Hydrologic Unit 17010302)
- » Pilot Study of Creating High Resolution NHDPlus Data
- » Update NHD in the Treasure Valley
- » Update NHD Spring Feature Class
- » Update Names of NHD Flowlines
- » Update NHD in IDWR Critical Areas

### Contact Information:

**Danielle Favreau**  
Idaho NHD Technical Point of Contact  
Phone: (208) 287-1880

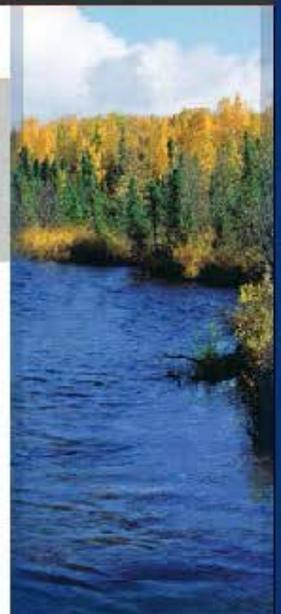
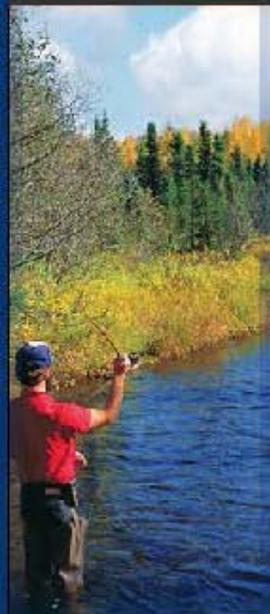
**Linda Davis**  
Idaho NIID Principal Steward  
Phone: (208) 287-4877

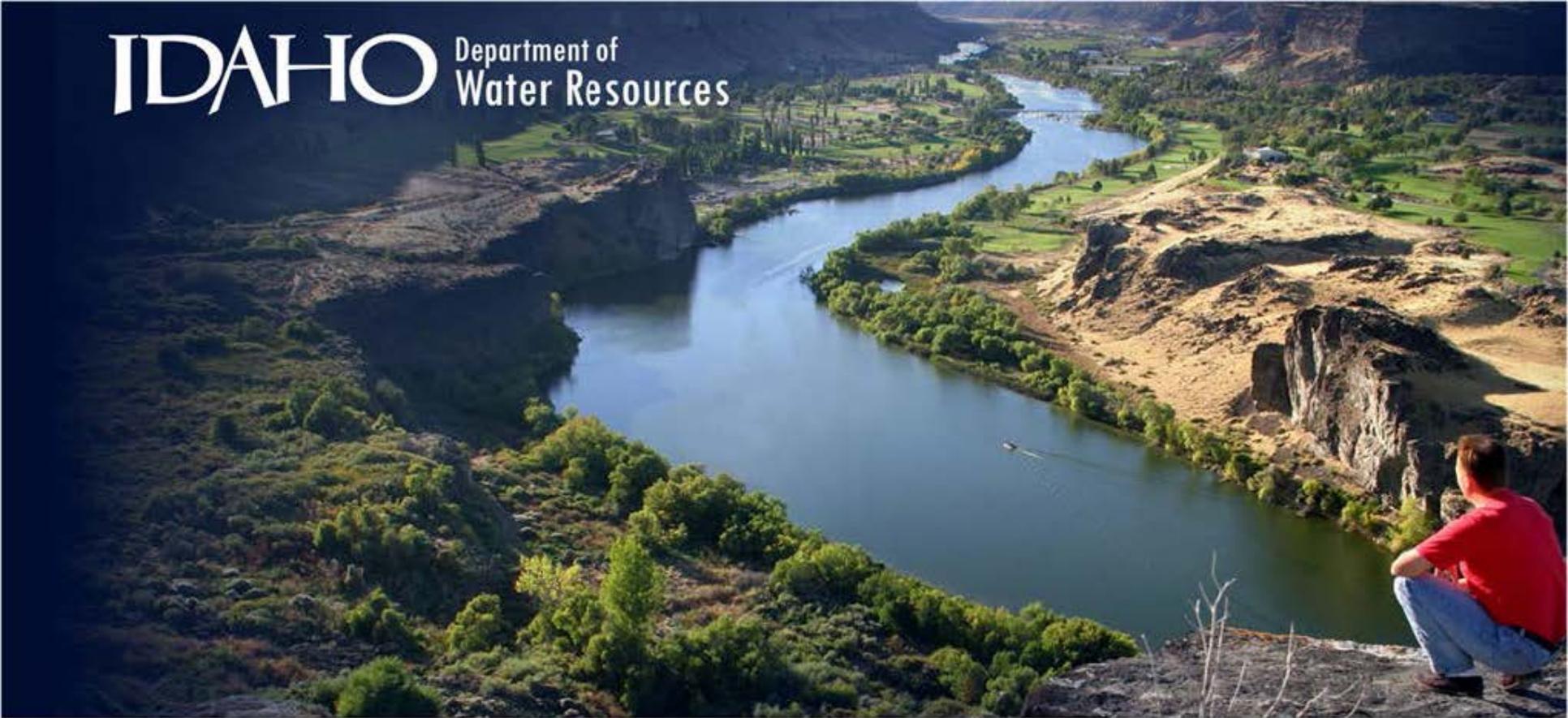
Idaho Department of Water Resources  
1027 East Front Street  
P.O. Box 103170  
 Boise, Idaho 83721-0170

For a list of contacts for neighboring states, as well as a list of contacts for specific regions or hydrologic units, please email [Danielle Favreau](mailto:Danielle.Favreau@idwr.idaho.gov).

### Links:

- » USGS National Hydrography Dataset
- » NRCS Watershed Boundary Dataset
- » EPA Watershed Assessment - Tracking & Environmental Results
- » USDA Forest Service
- » USDA Forest Service - Rocky Mountain Research Station
- » EPA - Locate Your Watershed
- » ArchHydro Data Model Download
- » NHD Plus
- » USGS Idaho Streamstats
- » ACWI Subcommittee on Spatial Water Data
- » USGS National Elevation Dataset
- » USGS GIS Data
- » Best of the Web - Water Resources
- » National Basin Delineation Project
- » BASINS
- » Digital Raster Graphics (DRG) at Inside Idaho





# NHD Projects from Other States or Federal Groups

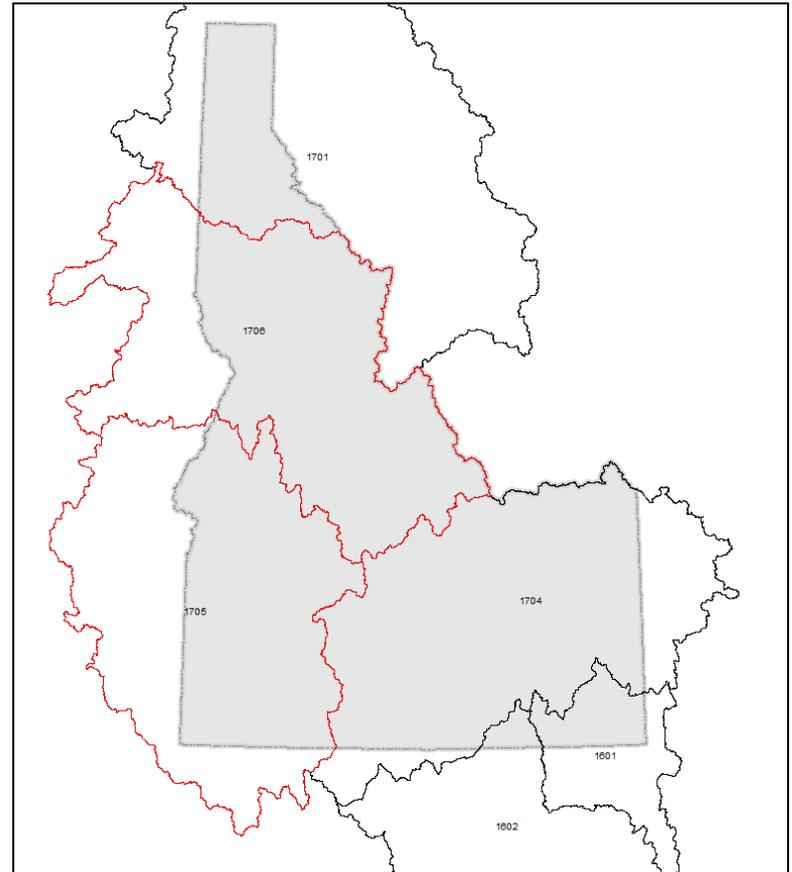
Idaho Hydrography Technical Working Group Meeting – Jan. 29, 2014

Idaho Department of Water Resources



## Strahler Stream Order Project

- HUs 1705 and 1706 done
- Bulk loaded in NHDFlowline VAA tables
- No plans for rest of Idaho
- By Jay Stevens  
GSTEVEN@BLM.GOV



## NHD work by USGS

- NHD Harmonization with Canada has been finished for the nation.
- Network Improvement Project – checking the Network – better tracing, connectivity. This work will help with move towards 24K NHD Plus.
- USTopo
- Improvements include Forest service roads and trails, structures, & improved NHD. The image base for the new maps is the 2013 NAIP.
- [http://store.usgs.gov/b2c\\_usgs/b2c/start/\(xcm=r3standardpitrex\\_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do)
  - NHD is part of the USTopo Program

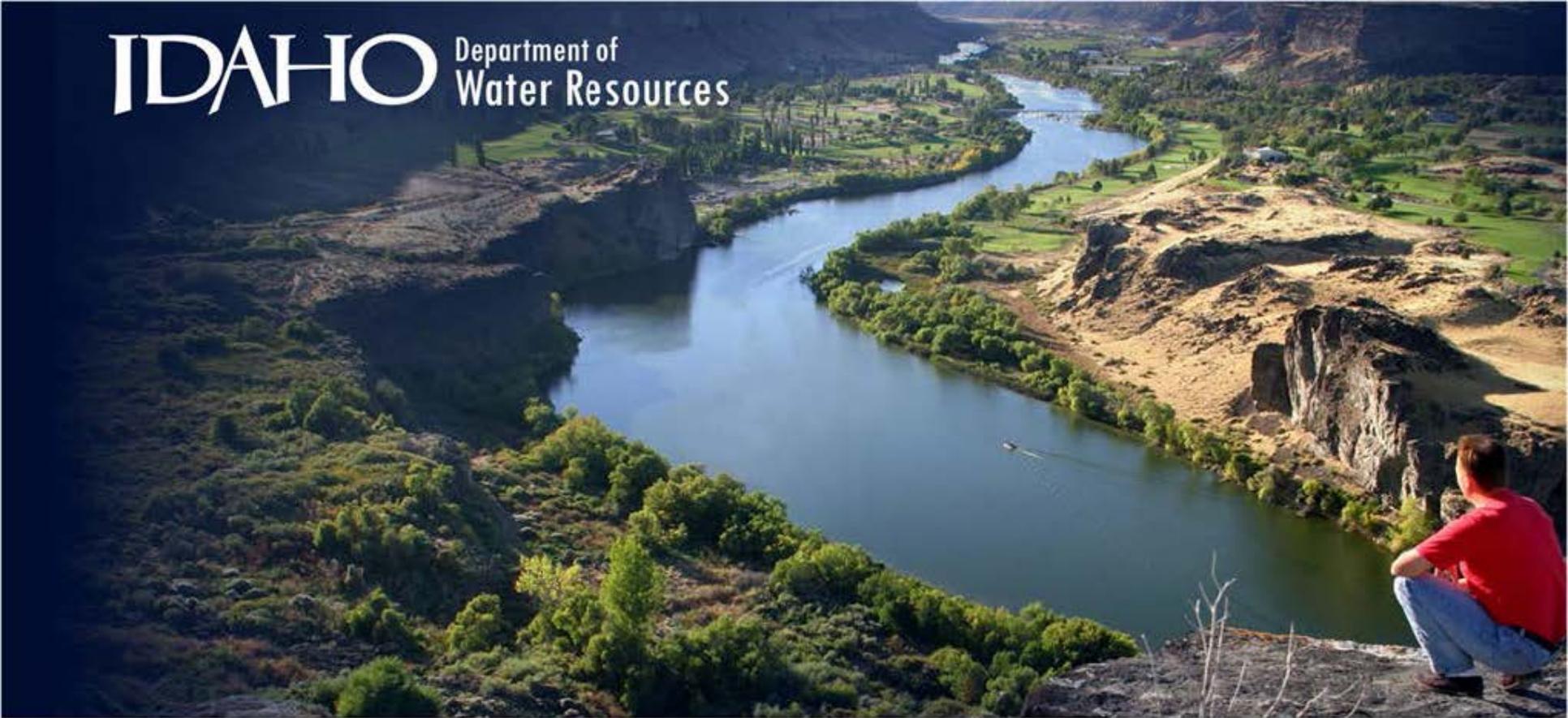
## Ele/Hydro

- Ele/Hydro integration – talks how best to integrate and update WBD/NHD with elevation data.
- 3DEP = NED
- Some LiDAR/NHD integration has been done by Oregon & South Carolina.
- Alaska using IFSAR. Hydro updates and Glacier RDI updates.

# Streamer

- A utility that allows you to trace a stream.
- Part of the National Map.
- [Nationalatlas.gov/streamer/streamer/welcome.html](http://Nationalatlas.gov/streamer/streamer/welcome.html)



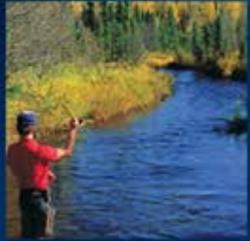


## Upcoming Events

Idaho Hydrography Technical Working Group Meeting – Jan. 29, 2014

Idaho Department of Water Resources





- NHD talks at the American Water Resources Association (AWRA) conference in Snowbird, UT in May
- Intermountain GIS Conference, Billings, MT, April 7-14
- NWGIS 2014, Lynnwood, WA Oct. 13-17



Contact Information:

Danielle Favreau, Idaho WBD & NHD Technical Point of Contact [Danielle.Favreau@idwr.idaho.gov](mailto:Danielle.Favreau@idwr.idaho.gov)

Linda Davis, Idaho Principal Data Steward [Linda.Davis@idwr.idaho.gov](mailto:Linda.Davis@idwr.idaho.gov)

Website Information: <http://www.idwr.idaho.gov/GeographicInfo/NHD/default.htm>

**QUESTIONS?**

