

## **Minutes**

Hydrography Technical Working Group Meeting  
Idaho Department of Water Resources (Idaho Water Center)  
September 18<sup>th</sup>, 2014 9am MST

Attending: Anne Kawalec ( Ada County) , Angie Hopf (City of Caldwell) , Danielle Favreau ( IDWR) , Cyndi Coulter( IDFG) , Tim Williams(IDFG) , Sabine Krier ( Coeur d'Alene Tribe) , Linda Davis ( IDWR)  
Via phone: Jeff May ( ISU) , Matt Tenold (City of Meridian)

The primary topic of discussion are the Water Feature and Watershed Boundary Framework Dataset Nominations.

Power point was presented - See Attached

- 1) The nominations in particular any Exclusions
  - Because the TWG voted to nominate the entire Hydrography Dataset of the NHD, there are portions of the dataset that may not be the best representation, for example, the NHDPoint Feature Class that includes dams and well subtypes and the NHDWaterbody Feature Class includes Swamp/Marsh.
  - Exclusions mentioned were wells, dams, marshes, gages, bridges.
  - Exclusions best represented in the Hydro Standard , not in nomination document.
- 2) No additional modifications or voting needed to the Hydro Standard and/or other documents.
- 3) no other datasets were presented via web to announcements or at the twg meeting for nomination

TWG agrees to recommend the nomination and have it presented in Nov at IGC.

Group discussed that standards are the best available data – it may not be the most current data, but best publicly available for a statewide dataset. Disclaimers can be used to let people know the limits of the data and provide guidance for best use.

The two nominations are:

1. Hydrography Dataset of the National Hydrography Dataset (NHD) – Will represent the Water Features portion of the TIM Framework
2. Watershed Boundary Dataset (WBD) – Will represent the Watershed Boundary/Catchment portion of the TIM Framework.

Links to the Stewardship Plans and data exchange standards drafted by the Hydrography TWG for these nominations can be found here:

- Hydro Standard:  
[http://www.idwr.idaho.gov/GeographicInfo/NHD/pdfs/HydroStd\\_ver1\\_3\\_2014.pdf](http://www.idwr.idaho.gov/GeographicInfo/NHD/pdfs/HydroStd_ver1_3_2014.pdf)
- WBD Stewardship Standard:  
[http://www.idwr.idaho.gov/GeographicInfo/NHD/pdfs/StewardshipPlan\\_WBD\\_ver0\\_5.pdf](http://www.idwr.idaho.gov/GeographicInfo/NHD/pdfs/StewardshipPlan_WBD_ver0_5.pdf)
- NHD Stewardship Standard:  
[http://www.idwr.idaho.gov/GeographicInfo/NHD/pdfs/StewardshipPlan\\_NHD\\_ver0\\_5.pdf](http://www.idwr.idaho.gov/GeographicInfo/NHD/pdfs/StewardshipPlan_NHD_ver0_5.pdf)
- NHD Nominations Posting  
[http://www.idwr.idaho.gov/GeographicInfo/NHD/PDFs/Nomination\\_NHD.pdf](http://www.idwr.idaho.gov/GeographicInfo/NHD/PDFs/Nomination_NHD.pdf)

- WBD Nominations Posting

[http://www.idwr.idaho.gov/GeographicInfo/NHD/PDFs/Nomination\\_WBD.pdf](http://www.idwr.idaho.gov/GeographicInfo/NHD/PDFs/Nomination_WBD.pdf)

The plan is to present the nominations at the November IGC-EC meeting, Nov. 7, 2014, for a full vote.

Links to the Datasets:

<http://viewer.nationalmap.gov/viewer/> as part of the National Hydrography Dataset (NHD) – statewide downloadable extracts are available

Map Services:

NHD Base Map - Primary Tile Cache	<a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHD/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHD/MapServer</a>
USGS NHD Base Map - Below 18K Scale Dynamic	<a href="http://services.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHD/Large/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHD/Large/MapServer</a>
Hydrography (NHD) & WBD - Dynamic	<a href="http://services.nationalmap.gov/ArcGIS/rest/services/nhd/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/nhd/MapServer</a>

Other discussion:

- IDFG asked if historic channels are kept in the NHD. The NHD does keep track of edits but does not have historic channels in the time period needed.
- Need for streamlined GNIS submittal. Looking forward to upcoming changes in the NHD.
- Tentative Timeline for the release of the ArcGIS 10.2.2 NHDEdit Tools - Thanksgiving

Next Meeting:

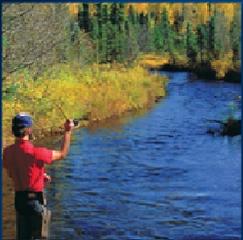
- TBD
- Next TWG meeting will be some date after the IGC November meeting.



# Hydrography TWG

September 18, 2014





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## AGENDA

- The Nominations
  - NHD
  - WBD
  - Exclusion Documentation?
  - Additional Modifications to Documents?
  - Discussion
- Other Datasets to Consider?
- Other Business?
- Next Meeting

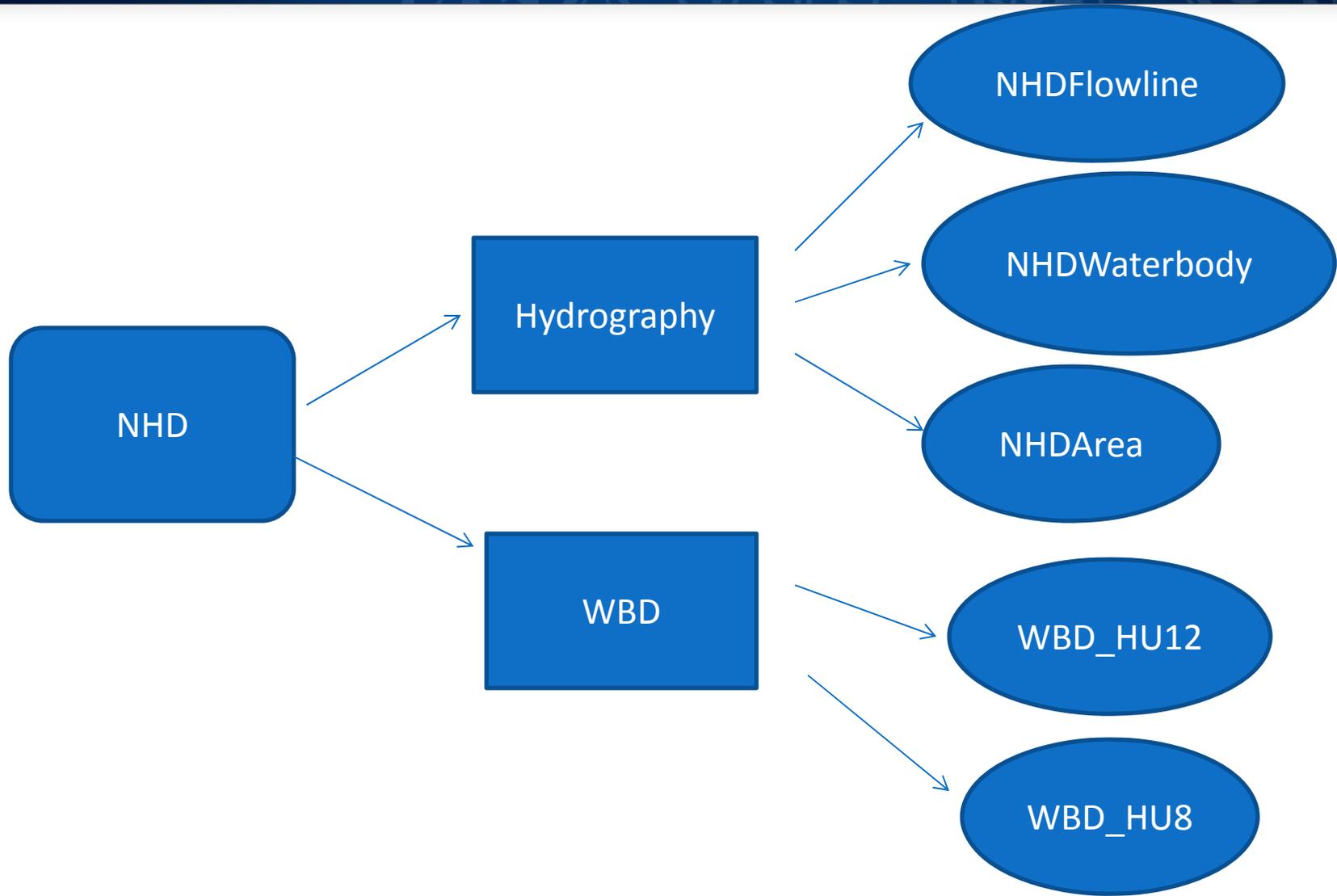
# Hydrography Framework Nomination

## **NHD - Hydrography**

- Developed in the 1990's.
- Represents the drainage network with features such as rivers, streams, canals, lakes, & ponds.
- Is a series of GIS feature classes
- Originally a combination of USGS hydrologic digital line graph files (DLG) and EPA reach files, version 3.0 (RF3). The USGS files were used for spatial accuracy and the EPA files were used for attribute information.

## **WBD**

- Developed since the 1970's
- Depicts drainage basins in the U.S.
- A Watershed Boundary  
Hydrologic Unit (HU) is a drainage area delineated to nest in a multi-level, hierarchical drainage system.
- A HU boundary is defined by hydrographic and topographic criteria that delineate an area of land upstream from a specific point on a river, stream or similar surface waters



Database

Dataset

Feature Class

# Hydrography Framework Nomination - NHD

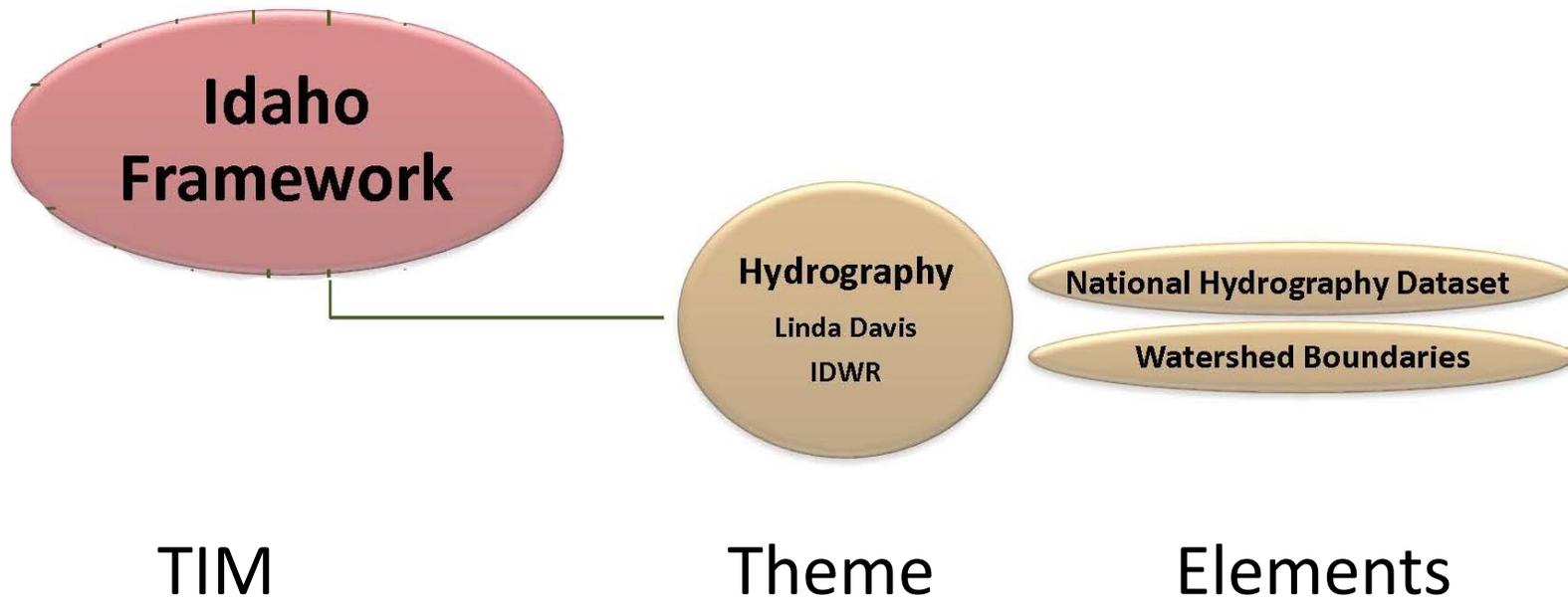
## Characteristics of a Framework Dataset

- Published by a Trusted Source
  - The National Map
- 1:24000 minimum
  - NHD Standard
- Statewide coverage
  - Yes
- Tie to National Dataset
  - Yes
- Complete Metadata
  - Feature Level and Dataset Level
- Documentation of Authoritative Sources
  - 1) OCIO Directive 2008-020 (Aug. 22, 2008) provides the method for defining an Authoritative Data Source (ADS) in support of the DOI Geospatial Modernization Blueprint
  - 2) The National Map is foundational to implementation of the DOI Geospatial Modernization Blueprint and is an recognized ADS.
  - 3) The NHD is the surface water component of the National Map.
  - 4) The Watershed Boundary Dataset is being developed under the leadership of the Subcommittee on Spatial Water Data, which is part of the Advisory Committee on Water Information and the Federal Geographic Data Committee

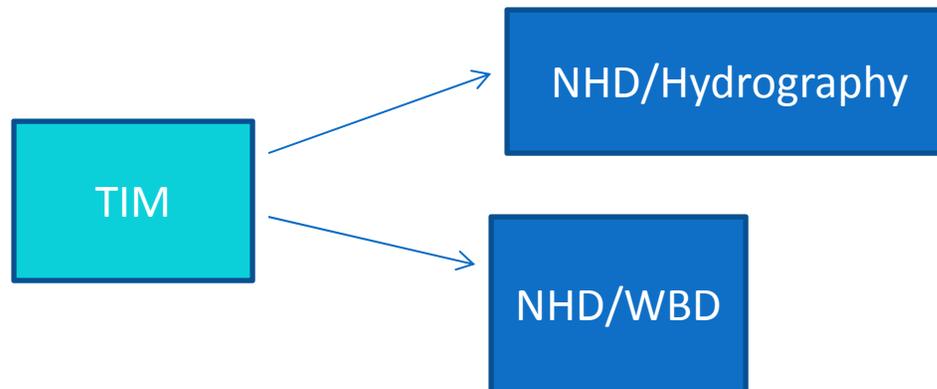
# Hydrography Framework Nomination - NHD

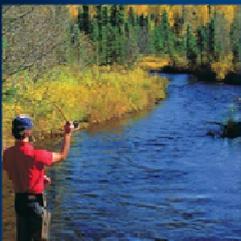
## Characteristics of a Framework Dataset

- In an approved and defined data exchange format
  - Hydrography Standard
    - National WBD & NHD Standards
    - Draft State Plan
- Detailed maintenance /update schedule
  - Stewardship Plan
    - National WBD & NHD Plans
    - Draft State Plan
- Historic Basis



# Nominate by Dataset





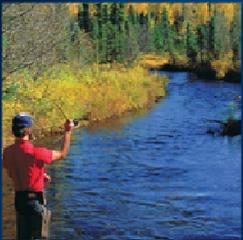
# Exclusions?

Name	Type
WBD_HU8	File Geodatabase Feature Class
WBD_HU6	File Geodatabase Feature Class
WBD_HU4	File Geodatabase Feature Class
WBD_HU2	File Geodatabase Feature Class
WBD_HU16	File Geodatabase Feature Class
WBD_HU14	File Geodatabase Feature Class
WBD_HU12	File Geodatabase Feature Class
WBD_HU10	File Geodatabase Feature Class

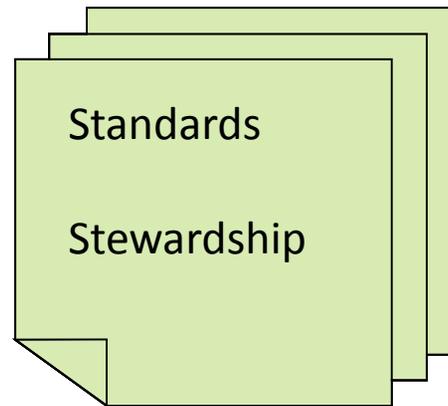
Name	Type
HYDRO_NET	File Geodatabase Geometric Netw...
HYDRO_NET_Junctions	File Geodatabase Feature Class
NHDArea	File Geodatabase Feature Class
NHDAreaEventFC	File Geodatabase Feature Class
NHDFlowline	File Geodatabase Feature Class
NHDLine	File Geodatabase Feature Class
NHDLineEventFC	File Geodatabase Feature Class
NHDPoint	File Geodatabase Feature Class
NHDPointEventFC	File Geodatabase Feature Class
NHDWaterbody	File Geodatabase Feature Class



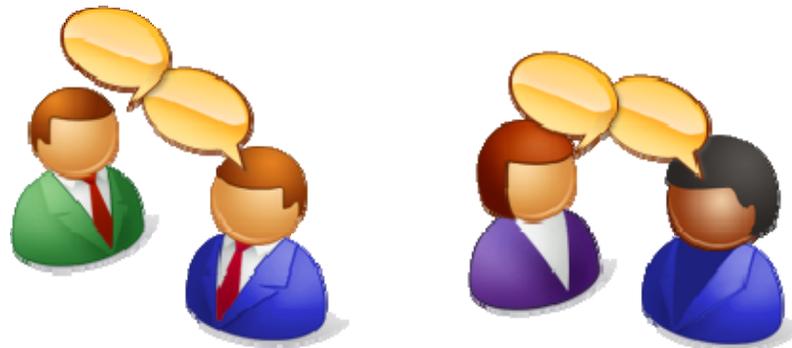
- [http://nhd.usgs.gov/NHDv2.2\\_poster\\_062614.pdf](http://nhd.usgs.gov/NHDv2.2_poster_062614.pdf)
- [http://www.oregon.gov/DAS/CIO/GEO/fit/hydrography/docs/ORHydroStandard\\_v2.pdf](http://www.oregon.gov/DAS/CIO/GEO/fit/hydrography/docs/ORHydroStandard_v2.pdf)
- [http://www.fgdc.gov/standards/projects/FGDC-standards-projects/framework-data-standard/GI\\_FrameworkDataStandard\\_Part6\\_Hydrography.pdf](http://www.fgdc.gov/standards/projects/FGDC-standards-projects/framework-data-standard/GI_FrameworkDataStandard_Part6_Hydrography.pdf)



# Document Modifications

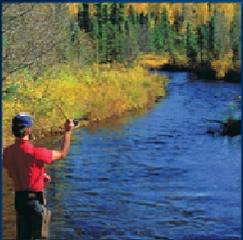


Discussions?



# Timeline

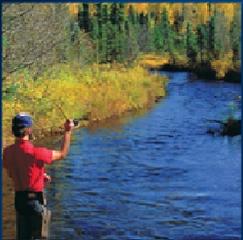
- A nomination was presented at July 24 TWG.
- Nomination went before IGC-EC on Aug. 21
- IGC-EC Chair sent to the nomination back to the TWG for formal recommendation
- TWG discussion Sept. 18
- TWG recommendation on nomination is presented to IGC-EC in November.
- If TWG recommends approval: Nomination presented to IGC for final vote and “framework stamp” at November IGC meeting.



## Other Datasets?

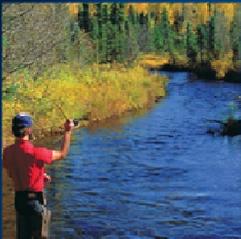
- Any from the floor?





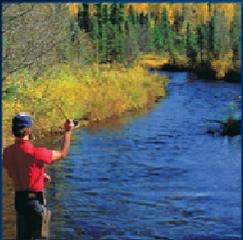
# Other Business?





## Upcoming Events

- **NWGIS** October 13-17, 2014 in Lynnwood, WA
- **AWRA** Nov. 3-6, 2014 Tyson's Corner, VA
- **IGC** Nov. 7 2014 Boise, ID
- **ASPRS** May 4-8, 2015 Tampa, FL
- **GISPro/NWGIS/Intermountain GIS Conference**
  - October 18-22, 2015, Spokane WA



# Next Meeting

Next IGC meeting  
November 7, 2014



# IDAHO Department of Water Resources



## Contact Information:

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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?

