

Hydrography TWG 9/10/2015 – Minutes

1) See Slide 3 – 3 changes made to the Hydrography Data Exchange Standard for Version 2.0

-there was no objection to send the standard to IGC-EC at the Sept. 17 meeting.

2) USFS Region 4 Updates – Brian Teats, USFS with support from Teresa

- Salmon Challis Forest
 - Checking all the named features on 7 ½ minute quad map and comparing the names to the NHD
 - Verify the name exists in GNIS, enter or correct name into GNIS
 - Working with a GNIS person to add or correct names in the database
 - Check out HUC the features exist in and make changes to the GNIS attributes
- There was a pilot done with Caribou Targee National Forest
 - Looking at the F-type, alignment and GNIS names
- Challenges
 - NHD Areas are not named but have F-type and F-code, while artificial paths are named, but don't have the F-type or F-code
 - Makes it difficult to query data for perennial streams
- Suggestion was put forwards that there needs to be a Standard for Stewardship document that details who to contact in case of issues with the NHD

3) USGS Updates – Hank Nelson, USGS

- GNIS Provisional Names ArcGis Add on – **Beta testing**
 - Use the toolbar to select a feature
 - Toolbar automatically selects every feature with the same reachcode
 - Question was put forward about splitting reachcodes. Hank responded that a new partition reach is available on the new toolbar
 - If a feature is selected that is already named tool will select all features with the same name
 - Use the opened window to submit a name
 - Have to fill in Editor Name, organization and documentation url (ex. State Map)
 - Suggestion was put forward for USGS to provide a place for people to upload their documentation in cases where there isn't a webmap
 - Suggestion was put forward that there should be a template for editors to load so they don't have to put in all their information every time
 - The submitted name goes into a temporary feature class for storage and will be added to the NHD if it is approved by the GNIS board
 - Editor should get an email when the name is approved

- USGS Website Updates
 - New map that shows sub-basins that are checked out with job numbers
 - Faster and more colorful
 - Has newest release of NHD Update Toolbar that runs on ArcGIS 10.2.2
 - Has a place to report bugs in the toolbar to USGS
 - Collect the error message
 - Stewardship page
 - Has a map that shows the POC regions
 - Can go to the updated user guide
 - Shows the NHD introduction and history
 - Houses the user guide to the new NHDToolbar 6.2.0
 - Step by step instructions on how to install ArcGIS and the new toolbar.
 - Step by step instructions in how to edit and go through quality checks
 - Contains an error list that tells you what the error is and how to fix it
 - New NHD Download Protocol
 - See Item 2 of Recording.
 - National Hydrography Dataset-20150901 1703-1 Tuesday, September 1, 2015
2:05 pm | Eastern Daylight Time (Indiana, GMT-04:00)
(1) Transition from ArcGIS 9.3.1 to 10.x - Jerry Ornelas - 10 min
(2) New NHD download protocol - Rob Dollison, Rick Brown, Jerry Ornelas - 15 min
(3) Intermittent to ephemeral conversion in the arid West - Keven Roth - 30 min

PLAY RECORDING (57 min)
<https://usgs.webex.com/usgs/ldr.php?RCID=dc8ed053b176adb1968cad57eef23c4f>
- USGS Staff Updates
 - WBD
 - Sue Buto is acting in the short term for Karen Hanson (Retired)
 - Kimberly Jones is acting for Steve Daw
 - NHD
 - No major changes

4) Intermittent/Perennial Streams – Linda Davis, IDWR

- See slide 15-17

- Kevin Roth USGS has proposed a ephemeral stream update methodology based on GNIS naming. (See Item 3 of Recording)

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- Some concerns
 - There is a large number of unnamed intermittent streams
 - Would like the field verification kept
 - There isn't a good way to delineate periodicity for streams
 - Please express further concerns on next Tuesday's NHD Advisory Team Call

5) IDWR Website Updates – Danielle Favreau, IDWR

- IDWR Website is now mobile friendly
- NHD is now located under Maps/Spatial Data
 - TWG, NHD, and WBD have their own tabs
 - Partner Project
 - Shows all IDWR projects
- GIS data has moved – this will probably break all saved links

6) IDWR NHD Update

Treasure Valley – Danielle Favreau, IDWR

- See slide 5
- ¾ of basin updated; including most populated areas and farmland
- Done by photo revision to 2013 NAIP imagery
- Next steps
 - Canal names
 - Contact local users for updates
- Ada County and Boise City contributed data

Weiser – Missy Harris, IDWR

- See slides 6-11
- Estimating time for updates
 - Look at population and percent of land under irrigation
 - National Agriculture Statistics crop data layer
 - Urban Areas from Census or GAP
 - Update time is affected by local updates

Upcoming IDWR Contracts – Danielle Favreau, IDWR

- See slide 12
 - Focusing on Geometry Edits

7) Old Business

- See slide 18



Hydrography TWG

Sept. 10, 2015





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AGENDA

- The State of Idaho Data Hydro. Exchange Standard
- **USFS Region 4 Updates**
 - Brian Teats, USFS
- IDWR Planned Updates
 - Weiser Updates
 - 2016 updates
- **USGS Update**
 - Hank Nelson, USGS
- New IDWR NHD/WBD Webpages
- Intermittent/ Perennial Streams
- Old Business
- Other Business
- Upcoming Events

Hydrography Data Exchange Standard

- Last Version for Comment:
 - Version 1.6
 - Comment Period
 - June 3, 2015 to Aug. 21, 2015
 - Only comment – change font of Appendix D
 - Version 1.6 to Version 2.0
 - move from DRAFT to FINAL
 - change font of Appendix D
 - Change “to be” to “was” on last paragraph Sec. 1.5
- Does Hydro. TWG agree to send to IGC-EC for a ratification vote?
- If yes, will go before IGC-EC at Sept. 17 meeting.

USFS Region 4 Updates

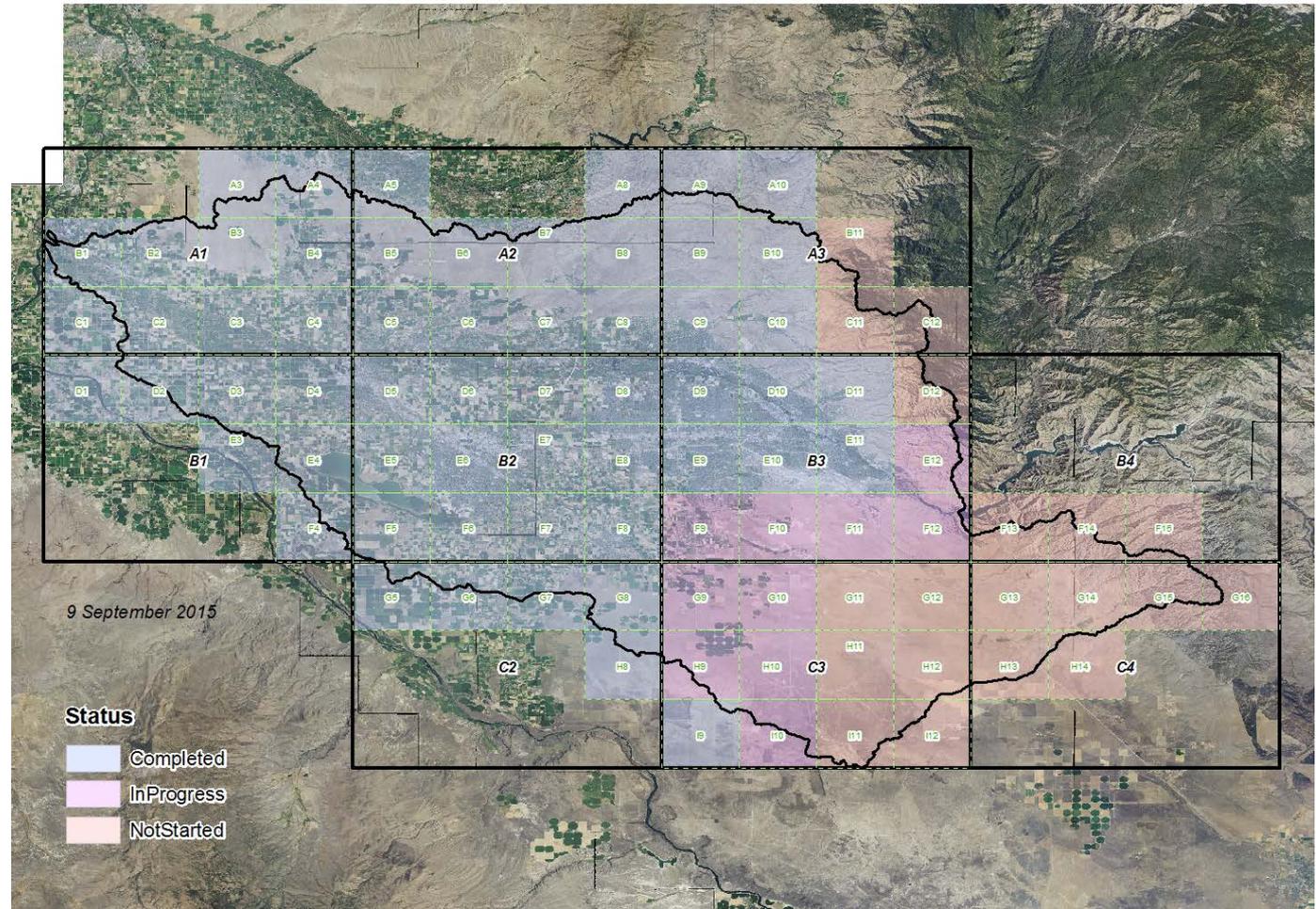


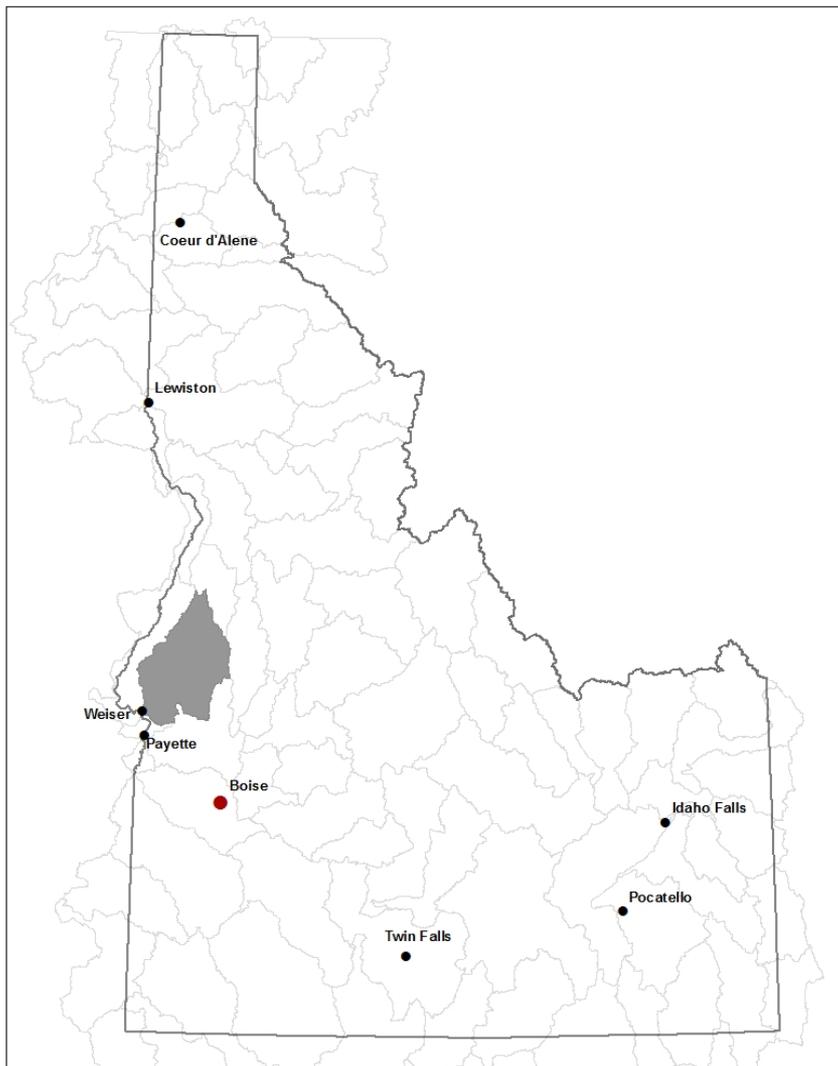
- Brain Teats, USFS



IDWR Update: Treasure Valley

**More Updates in
The Lower Boise
SubBasin
(17050114)**





IDWR/USGS Contracts: 2014- 2015

- Update the Weiser River SubBasin (17050124)

Update the NHD in the Weiser Sub-Basin



Updating the NHD in the Weiser Sub-Basin

Update Flowline Feature Class:

- Using NAIP 2013 imagery and IDWR Water Rights Database

• Update Area Feature Class :

- Using NAIP 2013 imagery

• Update Waterbody Feature Class:

- Using NAIP 2013 imagery

• All updates were digitized at 1:5000



Update the NHD in the Weiser Sub-Basin



Updating the NHD in the Weiser Sub-Basin

Update Flowline Feature Class:

- 18 Deleted, 177 Inserted, 590 Edited

• Update Area Feature Class :

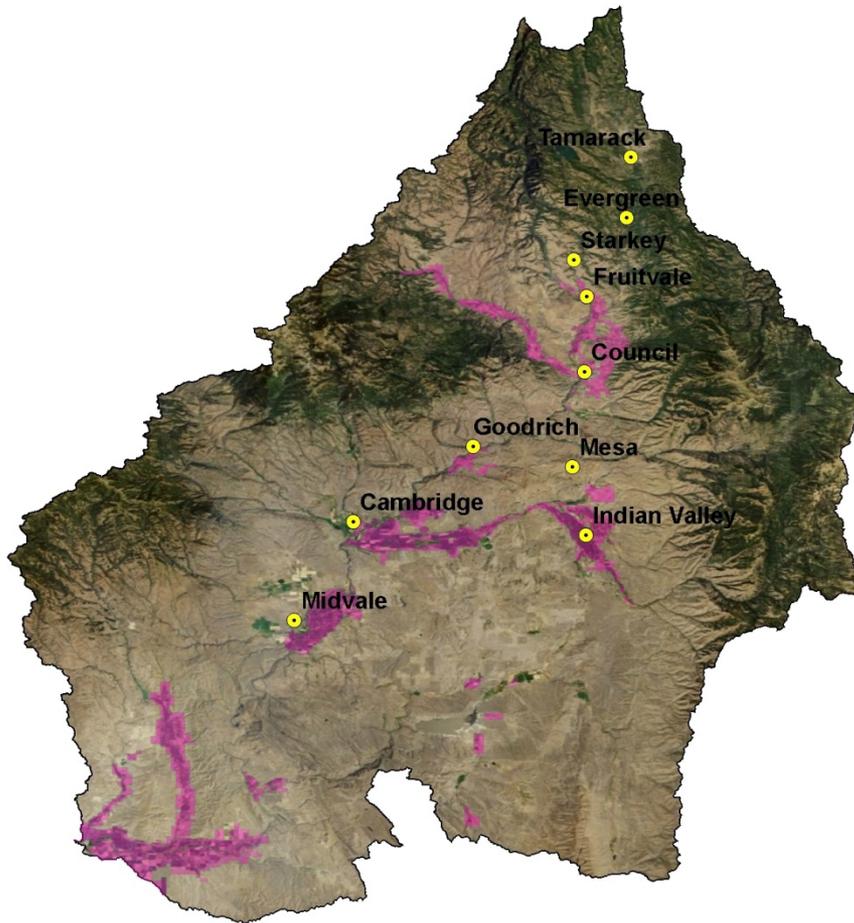
- 2 Edited

• Update Waterbody Feature Class:

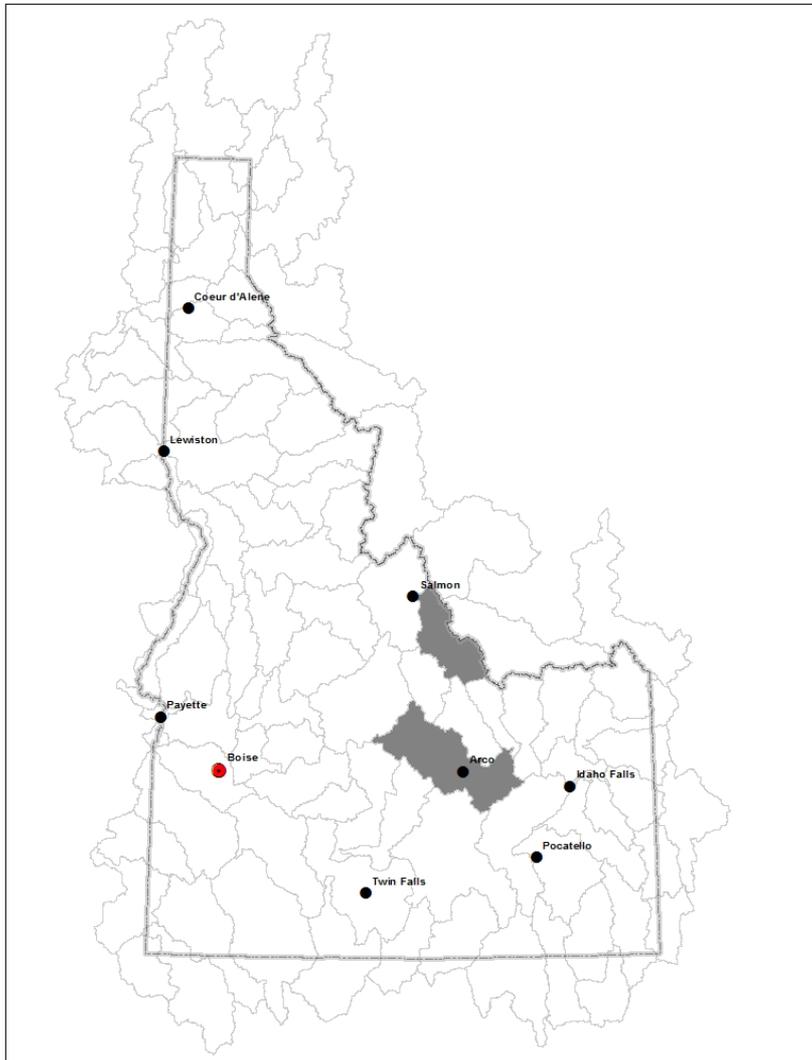
- 3 Deleted, 96 Inserted, 37 Edited



Updating the NHD in the Weiser Sub-Basin



- Updates were sent to 17 local Irrigation Entities and the Water Master
- Irrigation Entities cover 60760 out of 1078265 acres (17.75%)
- IDWR asked the entities to review:
 - Flow Direction
 - Canal Locations
 - Canal Names
- There will be more updates to the NHD once the local data is collected



IDWR/USGS Contracts: 2015- 2016

- Update the Big Lost SubBasin (17040218)
- Update the Lemhi SubBasin (17060204)



USGS Updates



- Hank Nelson USGS

IDWR Web Site Update

Moving to
Mobile!

The screenshot displays the IDWR website homepage with the following elements:

- Header:** "Excellence in water management" on the left; navigation links for Home, Research, Idaho.gov, and Contact Us on the right.
- Navigation Bar:** IDAHO Department of Water Resources logo on the left; a search bar labeled "Search IDWR" on the right.
- Hero Image:** A landscape photo of the Salmon River near Stanley with a "Water Rights" callout box. A caption at the bottom reads "Salmon River near Stanley Photographer: P. Owens, Courtesy of Idaho Tourism".
- Menu:** A horizontal navigation bar with links: Water Rights, Wells, Streams/Dams/Floods, Forms, Water Data, Maps/Spatial Data, Legal Actions, and Water Resource Board.
- Content Sections:**
 - ★ Popular Links:** Bear River Basin Adjudication, WD01 & WD63 Contested Cases Archived Docs, Snow Water Equivalency Maps, Evaluation of Minimum Well Seal Depth.
 - 🔍 Online Research:**
 - Research Tools:** Water Rights Search, New Water Right Applications, New Water Right Transfers.
 - Mapping Tools:** General Map, Evapotranspiration Viewer, Flood Hazard Map.

Intermittent/Perennial Streams



Perennial, intermittent and ephemeral

- Perennial – Contains water throughout the year, except for infrequent periods of severe drought.
- Intermittent – contains water for only part of the year, but more than just after rainstorms and at snowmelt.
- Ephemeral – Contains water only during or after a local rainstorm or heavy snowmelt.
- <http://nhd.usgs.gov/FeatureDirectory.pdf>

Perennial, intermittent and ephemeral

- In the NHD, in the digital conversion, the ephemeral streams were coded as intermittent.
- Some areas within Idaho have been updated with field verification.
- Incorrect coding can infer that there is more water available than actually present, especially in the arid west.
- Portions of New Mexico, Nevada, Colorado have worked with USGS to implement a process where unnamed intermittent streams are coded as ephemeral.

Old Business: Activities & Timeline

- Ratification of TIM Dataset Nominations
 - Done.
- Ratification of Hydrography Exchange Standard
 - Vote to IGC-EC Sept. 17
- Ratification of Stewardship Plans
 - On Hold.
- Updates/Development of NHD/WBD Edit Submission Guide
 - In Progress
- WBD Edits in Teton and South Fork Payette
 - In the works
- Stewardship
 - Submitting Names and Provisional Names Tool

Other Business?





Upcoming Events

- **GISPro/NWGIS/Intermountain GIS Conference**
 - October 18-22, 2015, Spokane WA
- **IGC – At GISPro Oct. 21, 2015**
- **AWRA Nov. 16-19, 2015 Denver, CO**



Next Meeting

Next TWG meeting March ?, 2016





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QUESTIONS?

