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)
    - National Hydrography Dataset-20150901 1703-1 Tuesday, September 1, 2015
      2:05 pm | Eastern Daylight Time (Indiana, GMT-04:00)

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      PLAY RECORDING (57 min)
      https://usgs.webex.com/usgs/ldr.php?RCID=dc8ed053b176adb1968cad57eef23c4f

    - 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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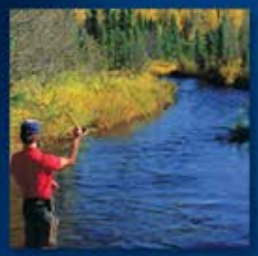

Hydrography TWG

Sept. 10, 2015

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.

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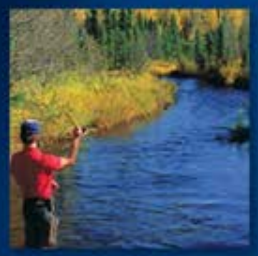
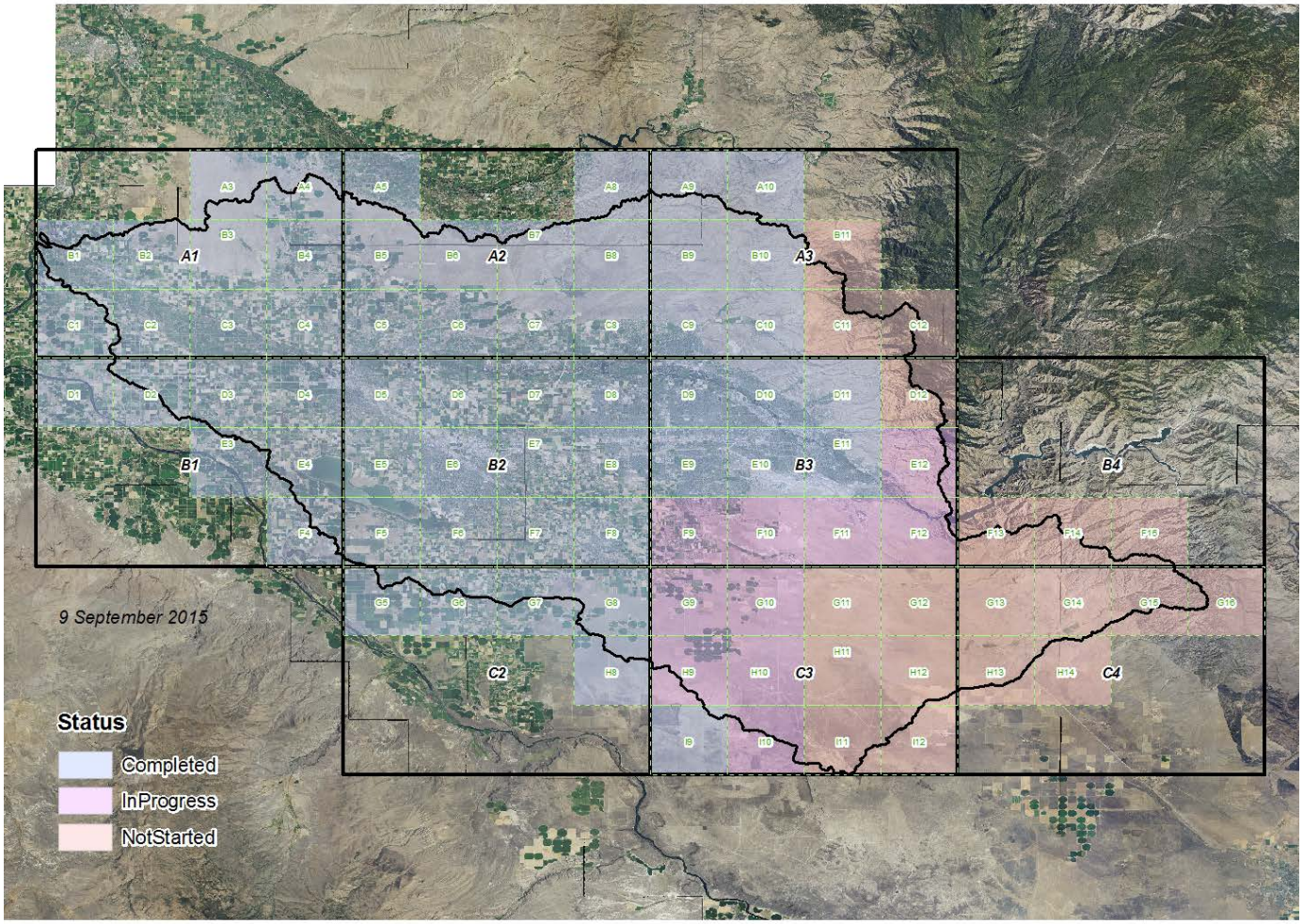


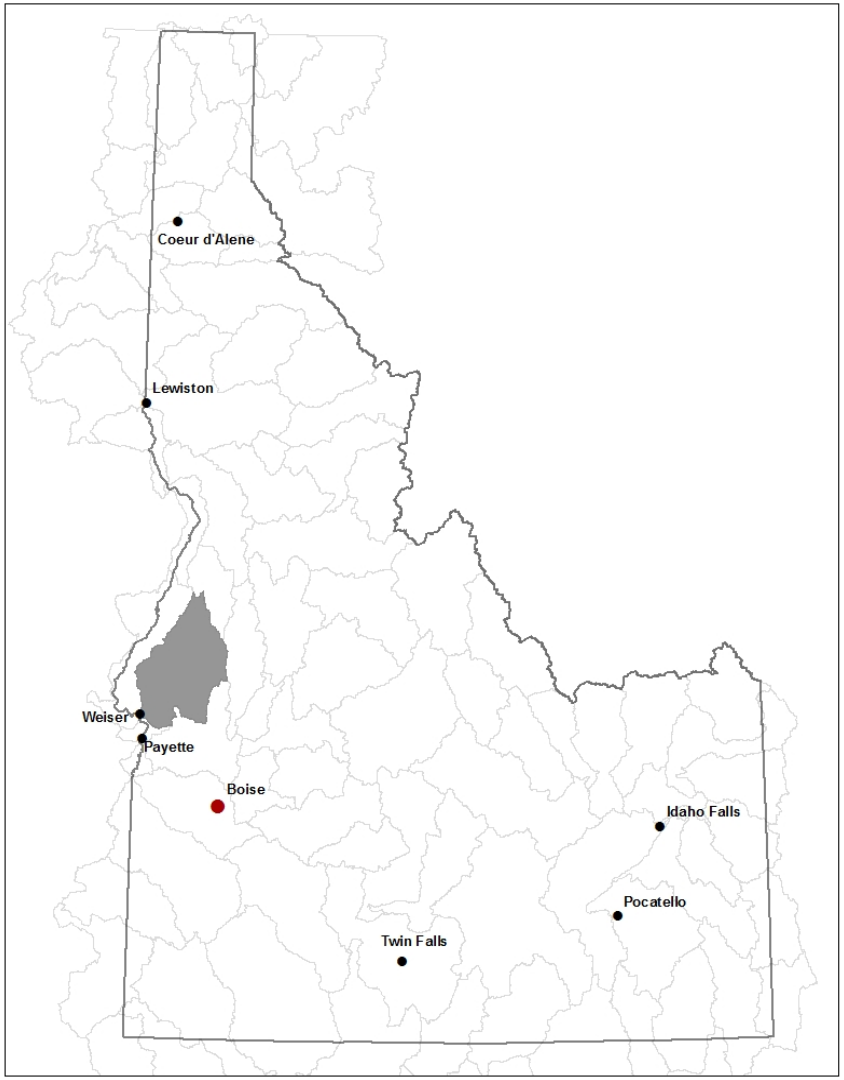
USFS Region 4 Updates

- Brain Teats, USFS

IDWR Update: Treasure Valley



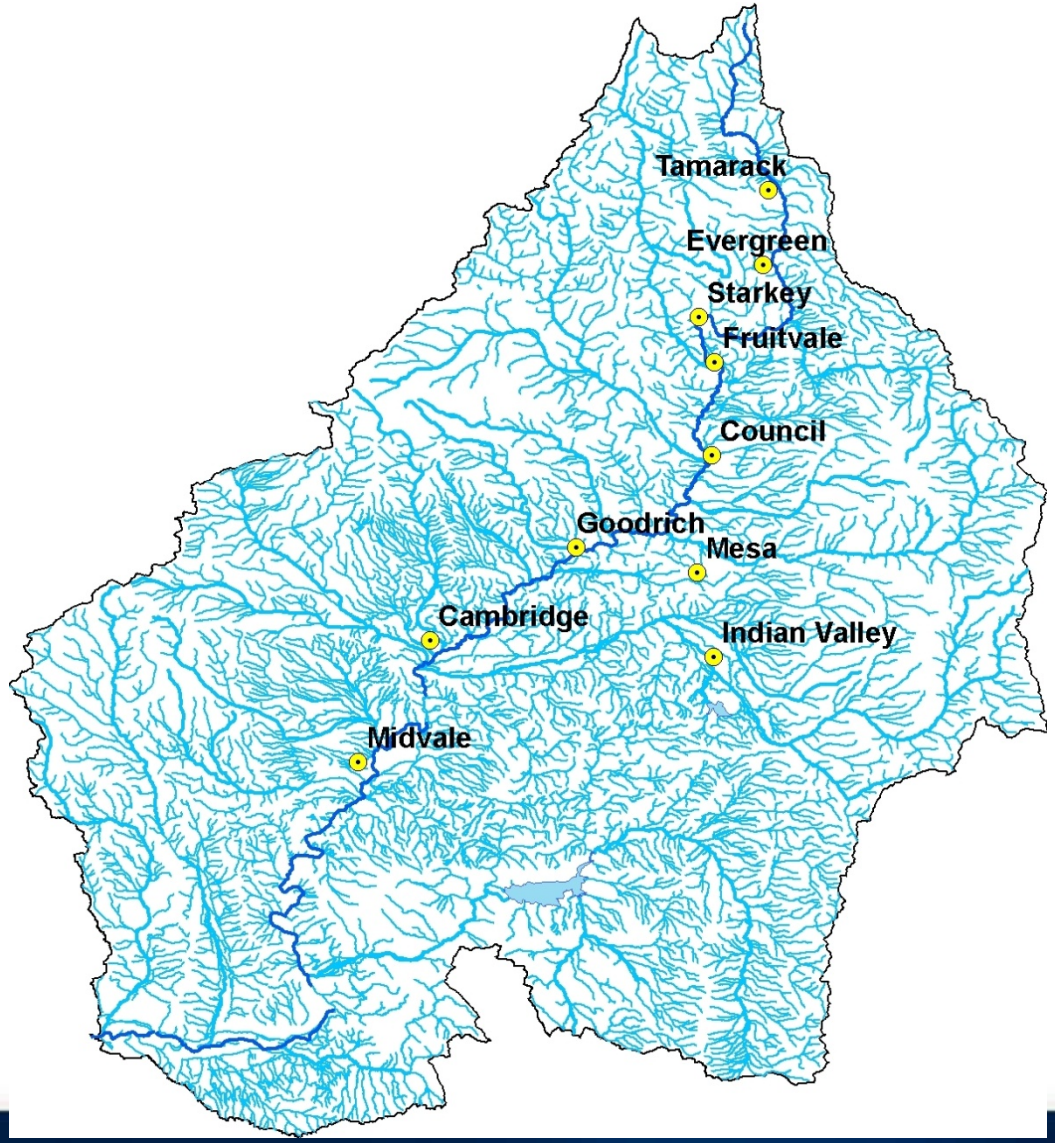
More Updates in The Lower Boise SubBasin (17050114)



IDWR/USGS Contracts: 2014-2015

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

Update the NHD in the Weiser Sub-Basin



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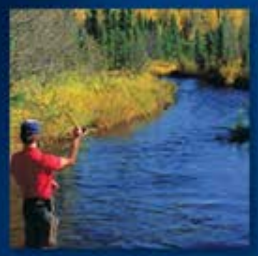

Updating the NHD in the Weiser Sub-Basin

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

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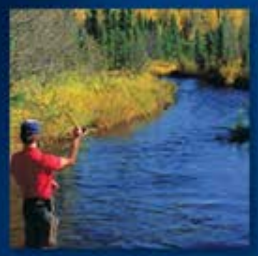


Updating the NHD in the Weiser Sub-Basin

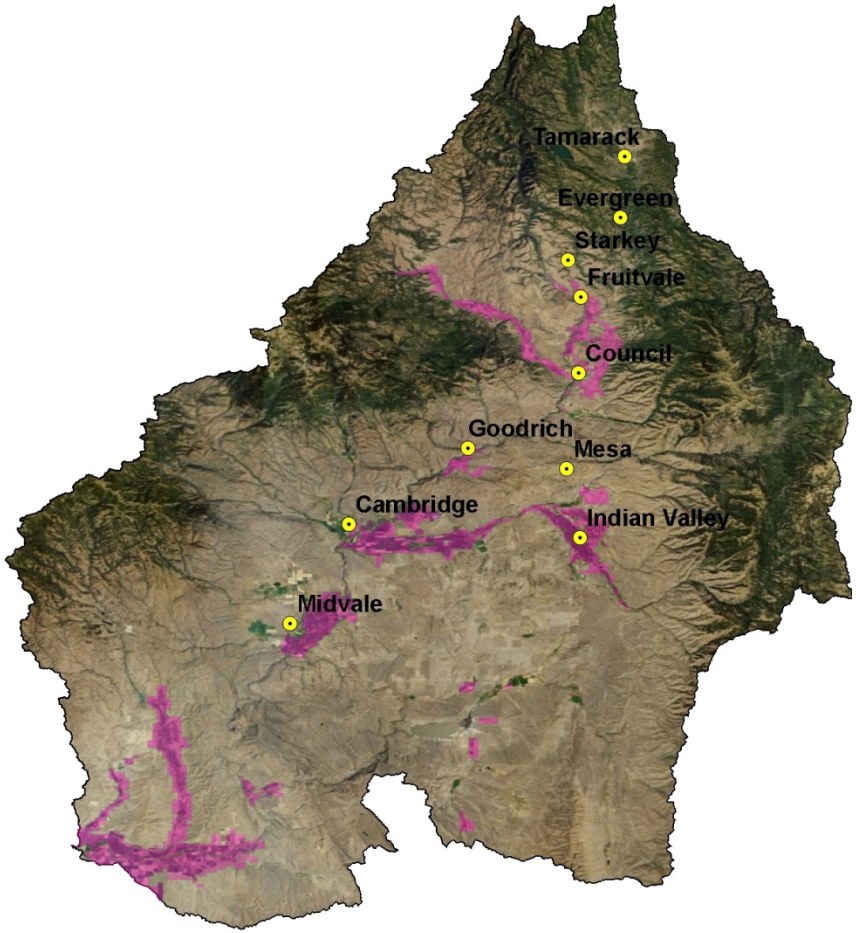
Update Flowline Feature Class:

- 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

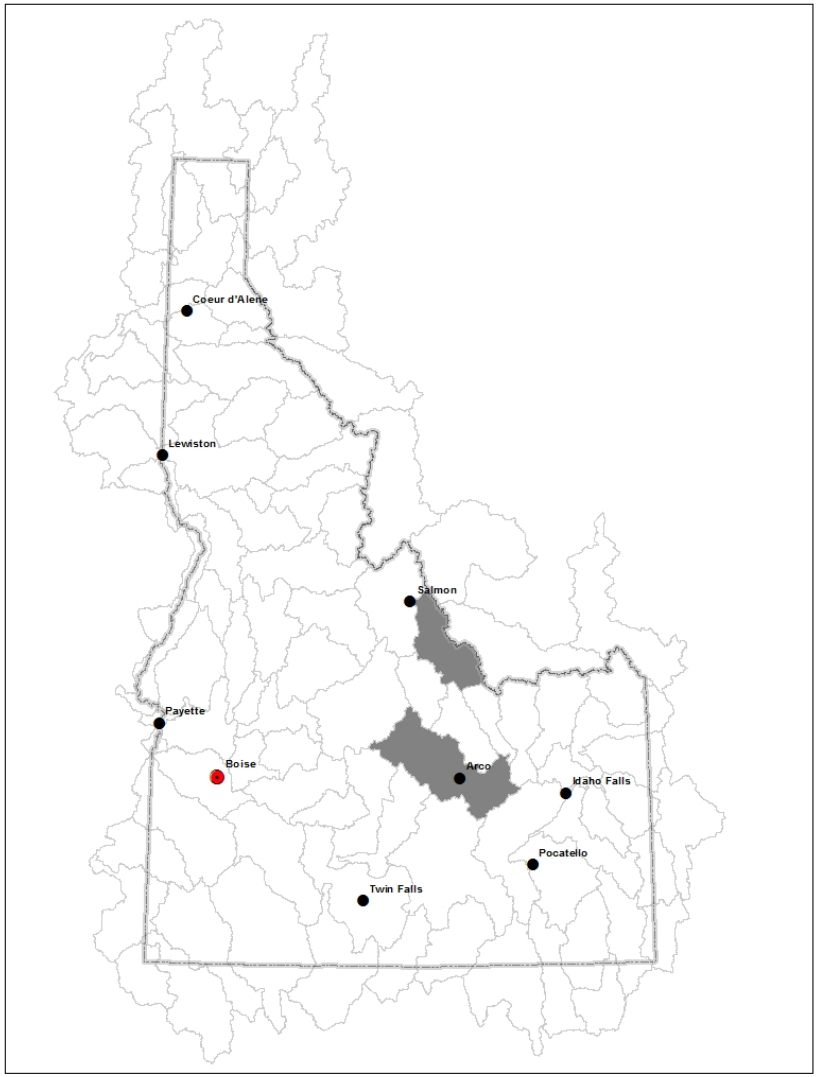


- **Updates were sent to 17 local Irrigation Entities and the Water Master**

- **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)**

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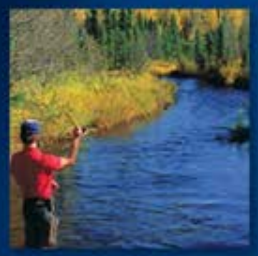
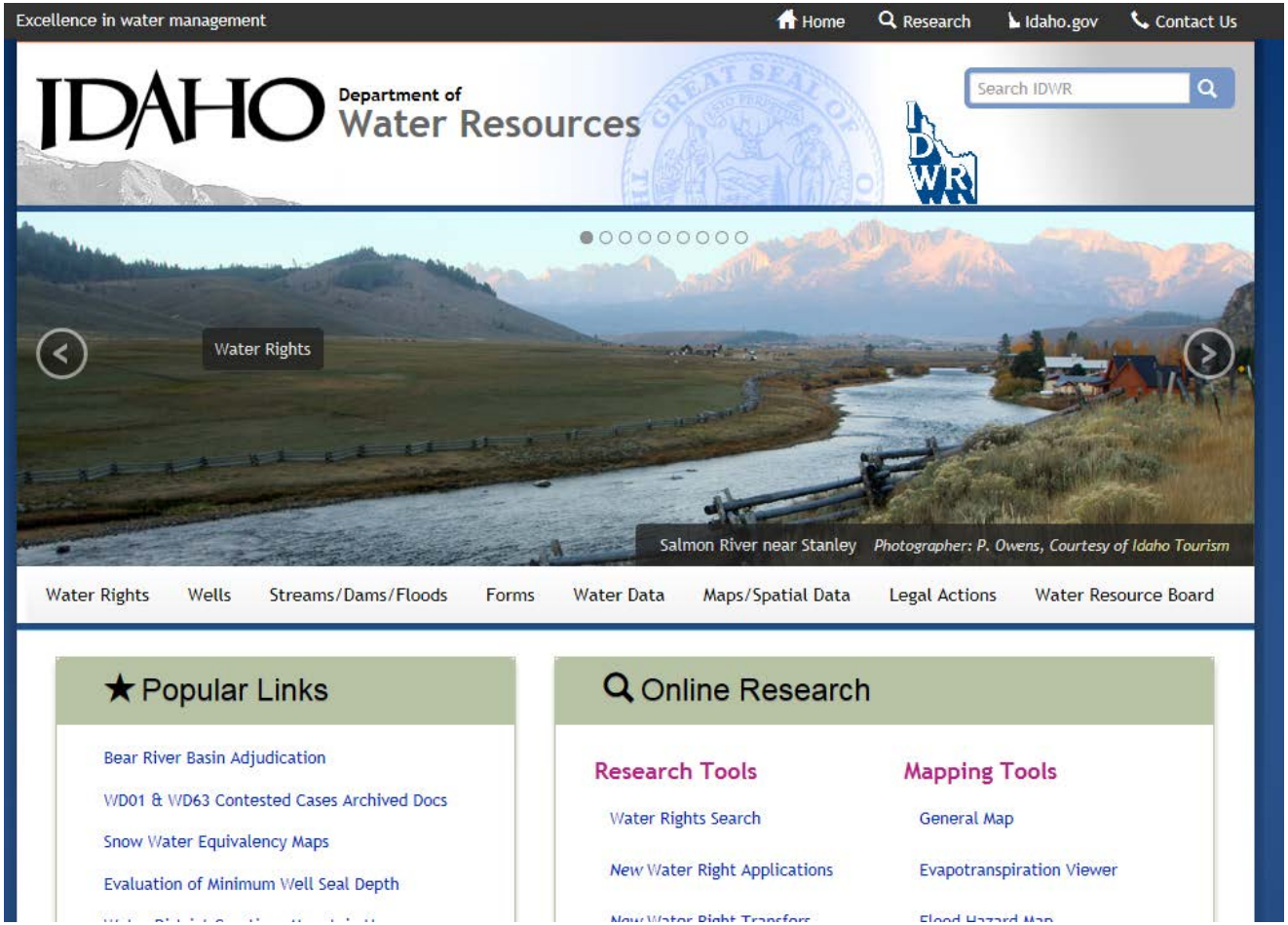


USGS Updates

- Hank Nelson USGS

IDWR Web Site Update

Moving to Mobile!



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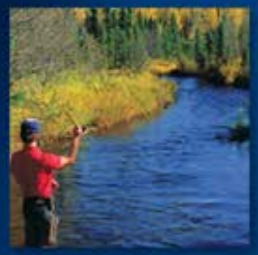

Intermittent/Perennial Streams

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

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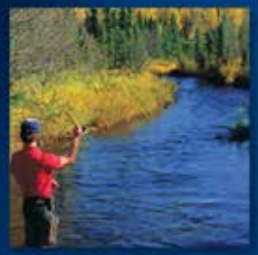
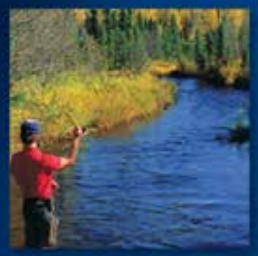


Other Business?



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

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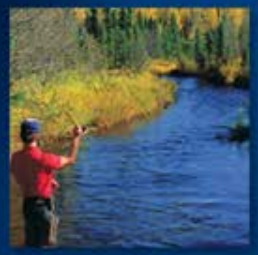

Next Meeting

Next TWG meeting March ?, 2016

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Linda Davis, Idaho Principal Data Steward Linda.Davis@idwr.idaho.gov

Website Information: http://idwr.idaho.gov/GIS/NHD/

QUESTIONS?