

Pilot Project: Integrate Framework Themes in High Resolution NHD

Partner: Idaho Department of Water Resources

Introduction

The NHD is one of many framework layers, but little work has been done to integrate this important spatial data layer with other framework data themes. Many spatial analyses require coordination of framework themes, including vertical and horizontal integration of these themes. This project will explore the relationships among the framework themes in Idaho and report on the challenges and procedures needed to integrate framework themes with high resolution NHD in a pilot subbasin in Idaho.

Benefits to the USGS and NHD Community

- Improved data integration in one subbasin that will provide a showcase subbasin for analysis across framework layers.
- This project will assess the methods and feasibility of integrating high resolution NHD with framework data layers. It will provide an estimate of the resources required to update the NHD and other framework data layers to acquire vertical and horizontal integration. Other States will be able to use this study to assess the feasibility and resources required to integrate framework data in their jurisdictions.

Tasks and deliverables

- **Tasks**
 - The Idaho Department of Water Resources (IDWR) will gather framework layers for a selected subbasin within Idaho and compare these layers for vertical and horizontal alignment.
 - IDWR will create links between the framework layers, primarily through event tables to link the high resolution NHD with the framework layers.
- **Deliverables**
 - IDWR will write a report documenting the integration process, the challenges it encountered, and an estimate for the resources required to apply the integration to the entire State of Idaho. Idaho will also update the high resolution NHD with any changes found during the integration process.