

Update the National Hydrography Database (NHD) in the Great Feeder Canal System

Introduction

The Great Feeder Canal system, located five miles east of the town of Ririe, Idaho, was dedicated in June, 1895. This canal system is the largest irrigating system in the Upper Snake River Valley and one of the largest systems in the West. It supplies water for twenty major canal systems, diverts up to one million acre-feet of water and has irrigated one hundred thousand or more acres of farmland. At one time, the head gate (116 feet from end to end) was said to be the largest in the US. Over the years, there has been a vast amount of construction and almost continual repair work on the canal system, and the current NHD does not reflect changes seen on the ground.

IDWR proposes to update the area indicated in the attached figure and submit all changes to the USGS for implementation in the NHD. IDWR proposes to update this areas in Idaho, using NAIP imagery and any available historical maps and local data. With this project, additional input will be solicited from local irrigation companies and interested stakeholders.

Benefits to the USGS and the NHD Community

Updated NHD in this area is important to cities, irrigation companies, state agencies, and federal partners that manage water within this Hydrologic Unit.

Proposed Work

- Use the 2011 NAIP imagery and historical maps to revise existing NHD.
- Solicit input from local irrigation entities and local land managers for clarification on names, vertical alignment and connectivity.
- Incorporate data from local irrigation entities to update hydrography.

Deliverables

- Send new or updated names to GNIS.
- Submit updates to the USGS for inclusion into the NHD.
- Prepare a short report on the project.

Canal Companies in the Great Feeder System

Burgess Canal & Irrigating Co.	Butler Island Canal Co.	Clark & Edwards Canal Co.	Dilts Irrigation Co. LTD	Enterprize Canal Co. LTD
Farmers Friend Irrigation Co LTD	Harrison Canal & Irrigation Co	Island Irrigation Co.	Labelle Irrigating Co.	Long Island Irrigation Co.
Lowder Slough	Parks & Lewisville	Progressive	Rigby Canal &	Rudy Irrigation

Canal Co.	Irrigation Co. Inc.	Irrigation Dist.	Irrigating Co. Inc.	Canal Co. LTD
North Rigby Irrigation & Canal Co. Inc.	West Labelle Irrigation Co. LTD			

Figure 1

