RECLANATION Managing Water in the West

Henrys Fork Basin Study Workgroup Meeting 1/11/2011

In Cooperation with: Idaho Water Resource Board





Henrys Fork Watershed Council

and



U.S. Department of the Interior Bureau of Reclamation

Recap 1. Core Group

2. Three meetings - "reconnaissance" level analysis

3. Reconnaissance analysis complete August/September

4. Final study report – December 2012

Agenda – Overall

Needs Assessment
 Revised Screening Criteria
 Water Storage Presentation **
 Group Discussion

Agenda - Surface Water Storage

1. Review Criteria

Present Surface Water Storage Opportunities

 Apply Criteria
 Group Input & Feedback
 Discuss Other Opportunities

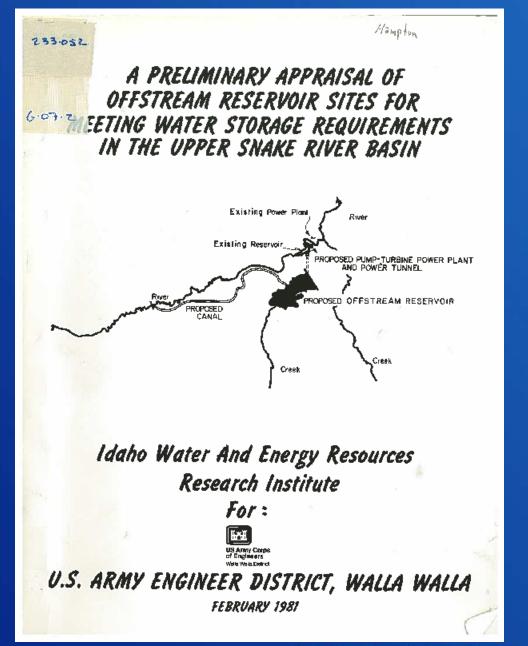
Screening Criteria – Available Information

1. Water Supply – Water availability, storage capacity

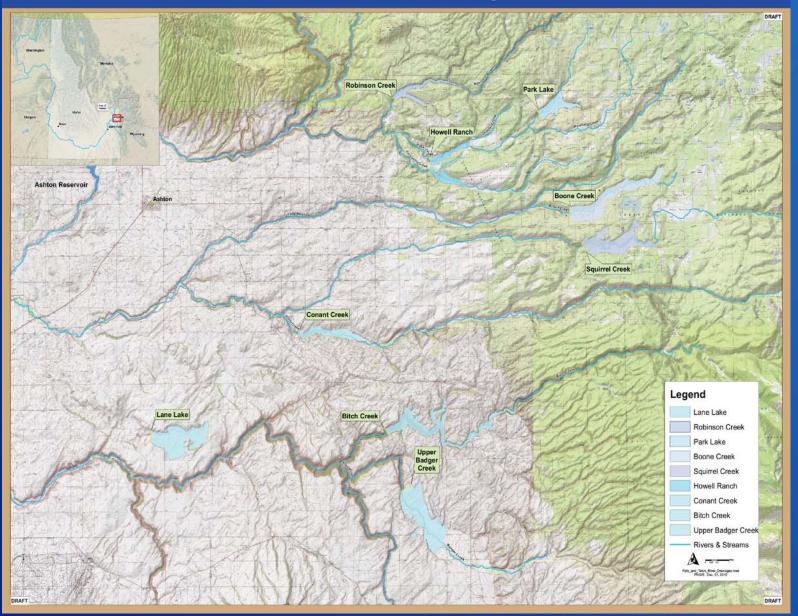
2. Water Rights – Not Yet Evaluated

3. Natural Environment – Impact to cold water fisheries, impact to potential wild and scenic

4. Socioeconomic Environment – Cost, hydroelectric potential, physical impacts



Falls River and Teton River Drainages



IWWRI 1981 Report

Name	Ac-Ft	Wat. Avail	Econ.	Impacts
Lane Lake	69,000	А	В	В
Bitch Creek	142,000	А	В	С
Lower Badger Creek	73,000	А	С	А
Upper Badger Creek	49,000	А	В	В
Conant Creek	40,000	А	С	С
Squirrel Creek	126,000	А	С	В
Boone Creek	83,000	А	С	Х
Robinson Creek	70,000	В	С	С
Howell Ranch	32,000	В	В	В
J Y Ranch	49,000	В	С	Х
Park Lake	37,000	В	С	Х
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Other Storage Opportunities

Name	Comments
Teton Dam	200,000 ac-ft active capacity Cost Indexing from 1991 Reappraisal ► 2010 Est. @ \$550 million
Raise Island Park Reservoir	Need group input
Raise Ashton Dam	Structure Under Modification – 1981 est. @ 29,000 ac-ft additional potential
Generic Reservoir In Flat Land	Estimated Storage Cost @ \$1,000 to \$3,000 per Ac-Ft



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TETON DAM REAPPRAISAL WORKING DOCUMENT

Bureau of Reclamation Boise, Idaho February, 1991

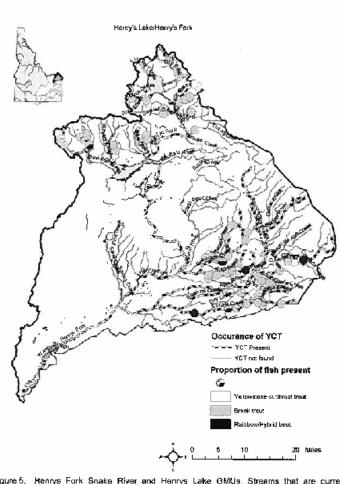
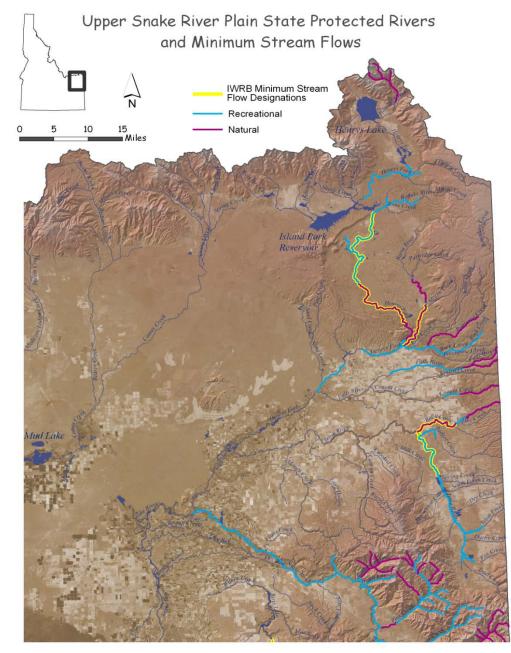
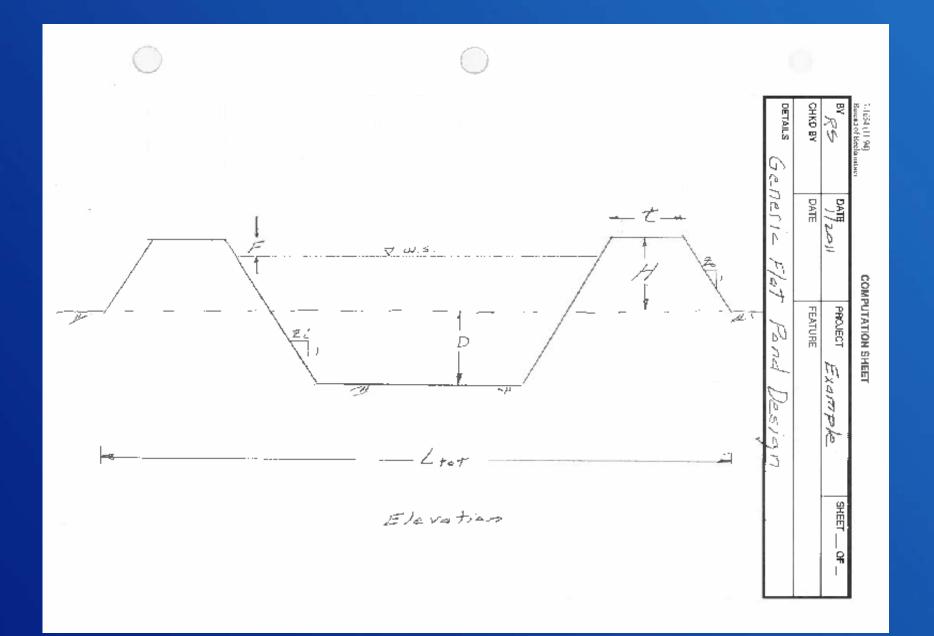


Figure 5. Henrys Fork Snake River and Henrys Lake GMUs. Streams that are currently thought to contain or lack YCT are labeled. Dots indicate survey sites from the Netive Salmonid Assessment project and depict what species were present at the site in proportion to their abundance. Any brown trout captured were not included in these plots.

ECLAMAT





Arthur V. Watkins Dam

West of Ogden Utah

215,120 ac-ft 36 ft at max dike

76,665 ft long = 14.5 miles

Off stream – Fed by canal



Lane Lake Opportunity Initial Analysis

Name	Opportunity	Concerns
Lane Lake	Water availability Off stream Hydroelectric potential Initial analysis shows low cost Location provides flexibility	Impact of water withdrawal Impact on land use Cost

High Watershed Opportunities Initial Analysis

Name	Opportunity	Concerns
High Watershed Storage Howell Ranch, Park Lake, Boone Creek, Squirrel Creek	Water availability Located high in watershed provides greater flexibility Relatively lower impact to fish passage	Impact of water withdrawal Impact on land use Cost Impact on fish passage

Generic Opportunity Initial Analysis

Name	Opportunity	Concerns
Generic Reservoir in Flat Land	Flexible May be reasonable cost	No location specified yet Impact on land use Cost Impact of water withdrawal

Teton Dam Opportunity Initial Analysis

Name	Opportunity	Concerns
Teton Dam	Water availability Large water storage Hydroelectric potential	Potential wild and scenic river Inundation of large amount of fish habitat High Cost History

Low Watershed Opportunities

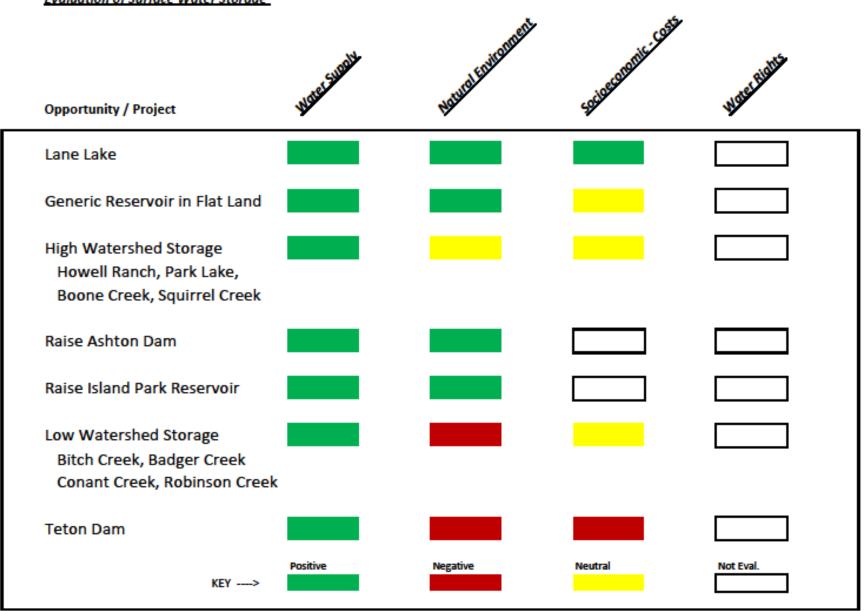
Initial Analysis

Name	Opportunity	Concerns
Low Watershed Storage	Water availability	Some potential wild and scenic river Inundation of large amount of fish habitat Documented Yellowstone
Bitch Creek, Badger Creek, Conant Creek, Robinson Creek		cutthroat trout

Dam Raise Opportunities Initial Analysis

Name	Opportunity	Concerns
Raise Ashton Dam	Water availability Existing reservoir	Project currently underway, Impact to residents
Raise Island Park Reservoir	Water availability Existing reservoir	Likely high cost High impact to residents





Input & Feedback

Other Opportunities to Consider ?