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Managing Water in the West

Henrys Fork Basin Study
February, 2013 Update

In Cooperation with:

Idaho Water Resource Board

and

Henrys Fork Watershed Council

U.S. Department of the Interior

Bureau of Reclamation

DRAFT Interim Report

Documents –

- Study Process
- Alternatives Considered
- Next Steps

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Further Storage Study Needs

- ✓ Compare Teton Dam alternative with other storage alternatives
- ✓ Reconfigure Lane Lake – Design/Costs
- ✓ Optimize Island Park Raise
- ✓ Hydrologic Impacts
- ✓ Environmental Impacts
- ✓ Water Availability

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Further Managed Recharge Study Needs

- ✓ None identified – State of Idaho to pursue current recharge program

Further Conservation Alternative Study Needs

- ✓ Automated Canals
- ✓ Irrigation Pipelines – North Freemont
- ✓ Hydrologic Impacts
- ✓ Environmental Impacts

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Further Municipal and Industrial Conservation Study Needs

- ✓ None identified – Individual cities to pursue as applicable

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Further Water Market Study Needs

- ✓ Investigate Use of Water Markets In Conjunction with Alternatives Evaluated

- ✓ Demand Reduction

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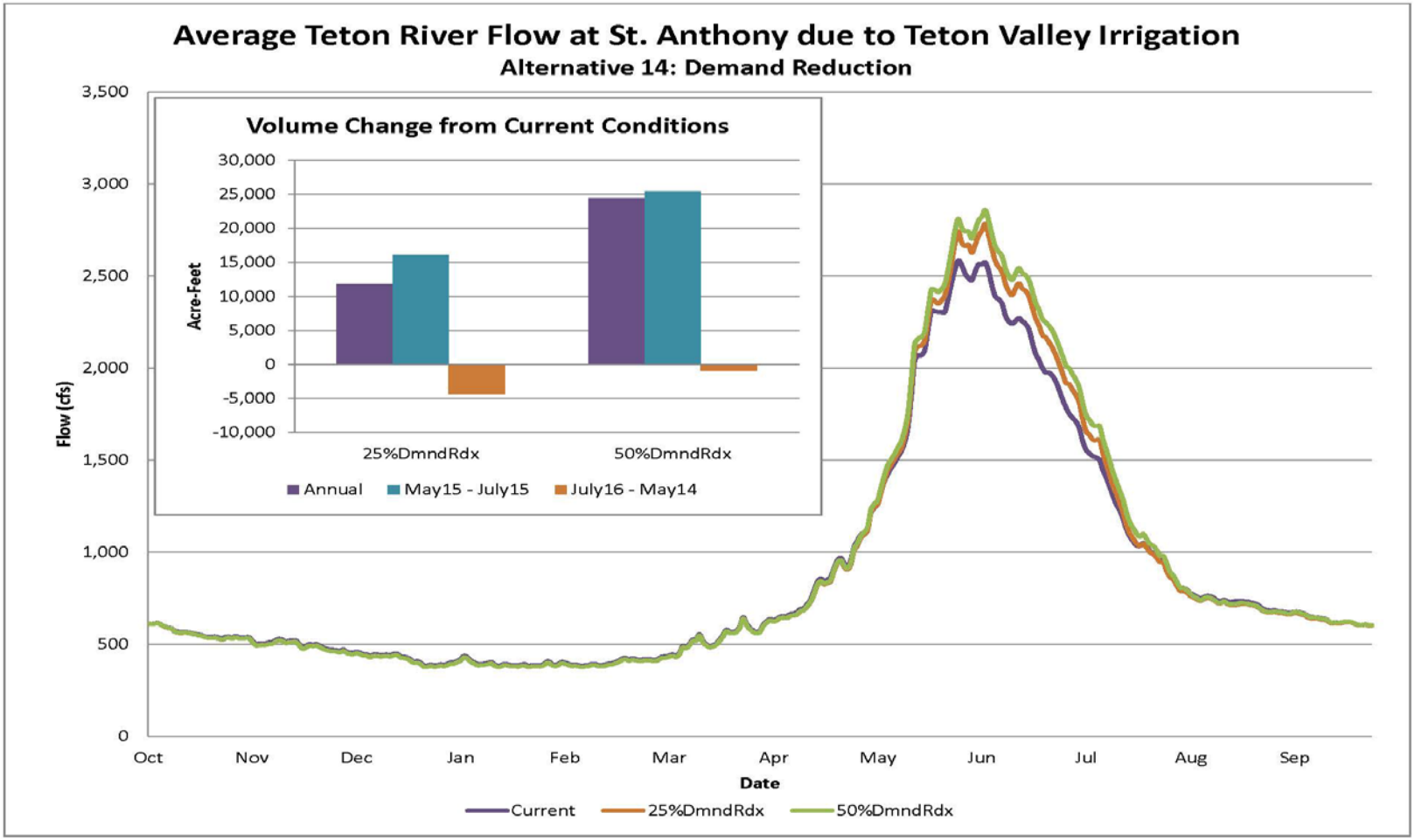
•Hydrologic / Hydraulic Modeling

- Impact of Alternatives on Water Budget
- Change in Hydrograph – Environmental Impacts
- Impact of Climate Change



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Basin Study – Solution vs. Constraints

Physical Hydrology / Hydraulics

Spread Sheet Analysis

✓ Assumptions/ Mgmt. Decisions

✓ Water Availability

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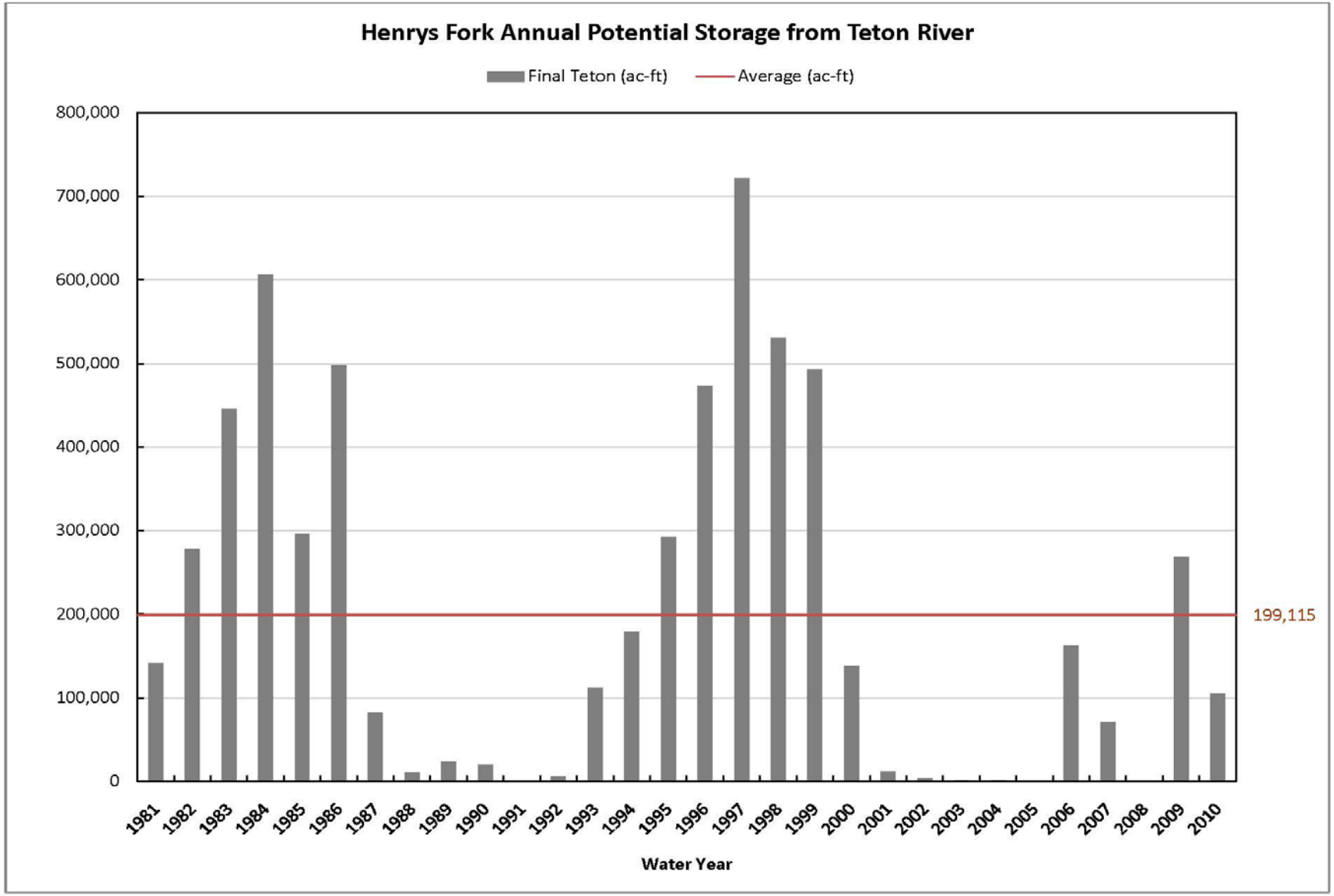

Assumes Unlimted Storage

Illustrative Example Only

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Illustrative Example

Minimum Flows		
Milner Dam	250	cfs
Rexburg Ga.Sta.	800	cfs
Teton Ga. Sta.	50	cfs

Storage Capacity Ac-Ft	Average Capture Ac-Ft	Percent
300,000	142,917	48%
200,000	108,106	54%
100,000	63,797	64%
50,000	33,916	68%

Teton Watershed

CADSWES

The Center for Advanced Decision Support for Water and Environmental Systems

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Climate and Hydrology Datasets for Use in the River Management Joint Operating Committee (RMJOC) Agencies' Longer-Term Planning Studies

Part IV – Summary

U.S. Department of the Interior
Bureau of Reclamation
Pacific Northwest Regional Office
Boise, Idaho
Technical Service Center
Denver, Colorado

U.S. Army Corps of Engineers
Northwestern Division
Portland District
Portland, Oregon

Bonneville Power Administration
Portland, Oregon

September 2011

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Climate Change – Scenarios

w/ each alternative

1. Average Year
2. Wet Year
3. Dry Year

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