

RECLAMATION

Managing Water in the West

New Surface Water Storage



U.S. Department of the Interior
Bureau of Reclamation

Reclamation Process

- Pre-appraisal Study (optional)
- Appraisal Study
- Authorization
- Feasibility Study/Environmental Compliance
- Contracts
- Construction

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Appraisal Study

- Broad, high level analysis
- Recommends further study or not
- Addresses water need and availability
- Identifies potential non-structural alternatives
- Identifies potential “show stoppers”
- Only rough cost estimates are not made– not firm

Feasibility Study/Environmental Compliance

- Provides all information necessary for Congressional Authorization
- Complies with NEPA and ESA
- Provides detailed cost estimates and plans
- Principles and Guidelines (P&Gs) Includes:
 - National Economic Development (NED)
 - Environmental Quality (EQ)
 - Regional Economic Development (RED)
 - Other Social Effects (OSE)

Time Frames

Step	Time	Cumulative
Appraisal Study	12-24 Months	1-2 Years
Feasibility Authorization	12-36 Months?	2-5 Years
Feasibility Study	36 Months or more	5-8 Years?
Environmental/regulatory Compliance	Overlaps w/above	
Construction Authorization	12-36 Months?	6-11 Years
Construction	5-8 Years?	11-19 Years???

Funding

Cost	Who Pays?
Appraisal Study	Usually Reclamation
Feasibility Study	50-50
Construction	Per Allocation

Sites of Interest

- Boise/Payette
- Minidoka Raise
- Teton

Boise/Payette

- Appraisal Study Completed in July 2006
- Identified 8 “Areas of Opportunity”
- Additional storage ranged from 50,000 to 400,000 acre-feet
- Appraisal level cost estimates were developed but only used for site comparison purposes
- Status: Waiting for cost sharing and Feasibility Authorization, then funding

Minidoka Raise

- Considered about 3 years ago
- Cost sharing partners did not come forward
- Reclamation is proceeding with repairs (no raise)
- Potential added storage was 55,000 acre-feet for a 5 foot dam raise
- Potential increased cost for full raise was more than \$100 Million (pre-appraisal grade estimate)
- Cost/acre-feet @ \$100,000,000 = \$1,800
- Best location on the River for new storage

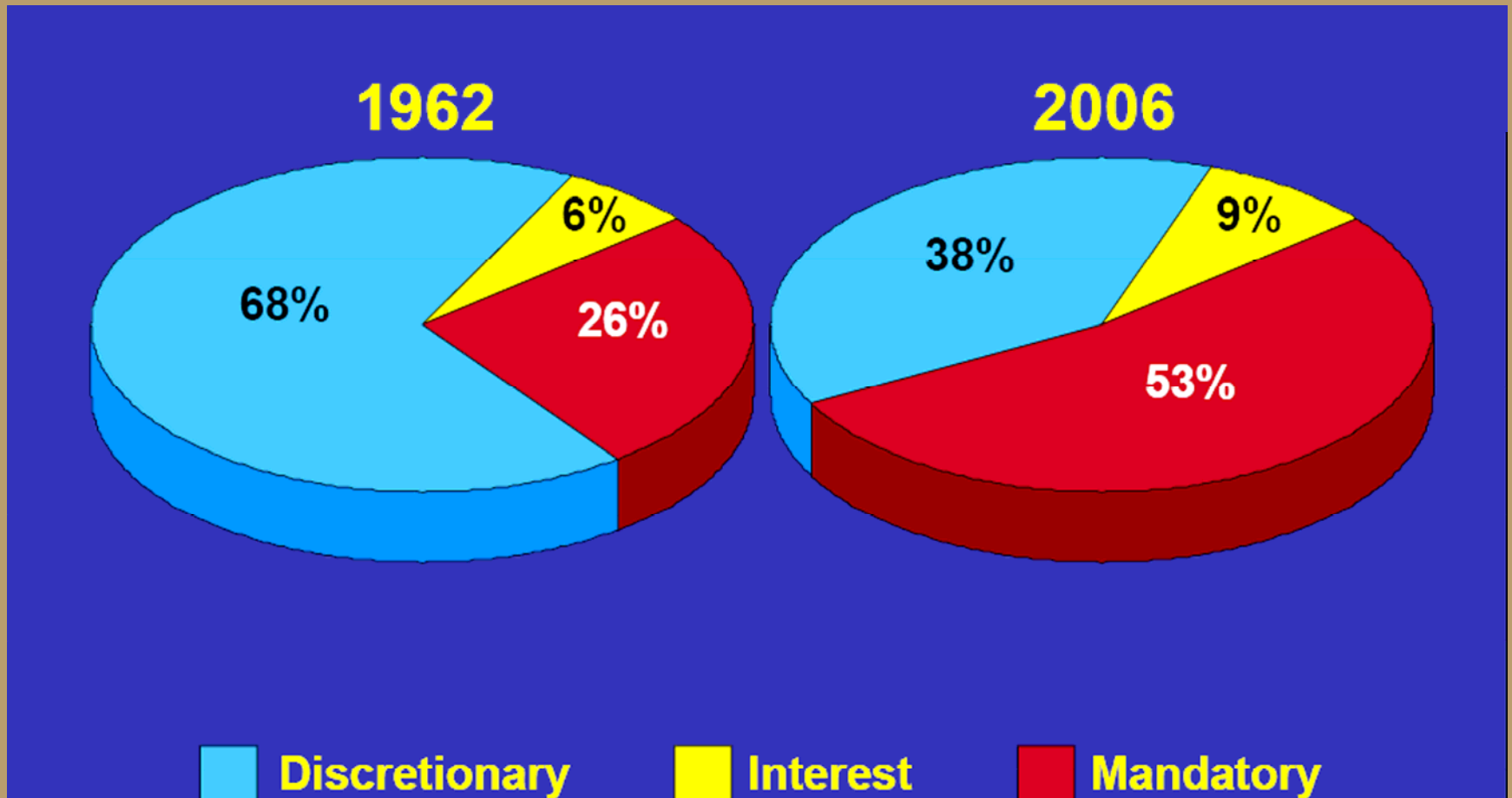
Teton

- Total capacity = 288,000 acre-feet
- Total cost (indexed 1990 estimates):
 - Rockfill Embankment Dam \$296 Million
 - Roller-Compacted Concrete \$464 Million
- Cost/Acre-Foot of yield (indexed):
 - Embankment \$3,950
 - Concrete \$6,300

What's going on next door?

- State of Washington has funded or is funding:
 - 50% of \$17 million spent on Yakima Storage Feasibility Study
 - Nearly 100% of pre-appraisal and appraisal costs of Columbia River Off-Channel Storage Study (About \$700,000)
 - About \$1 million (nearly 100%) of Potholes Supplemental Feed Route Study costs
 - 50% (\$4 million) of Odessa Sub-area Special Study

Spending by Category (OMB 2007)



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