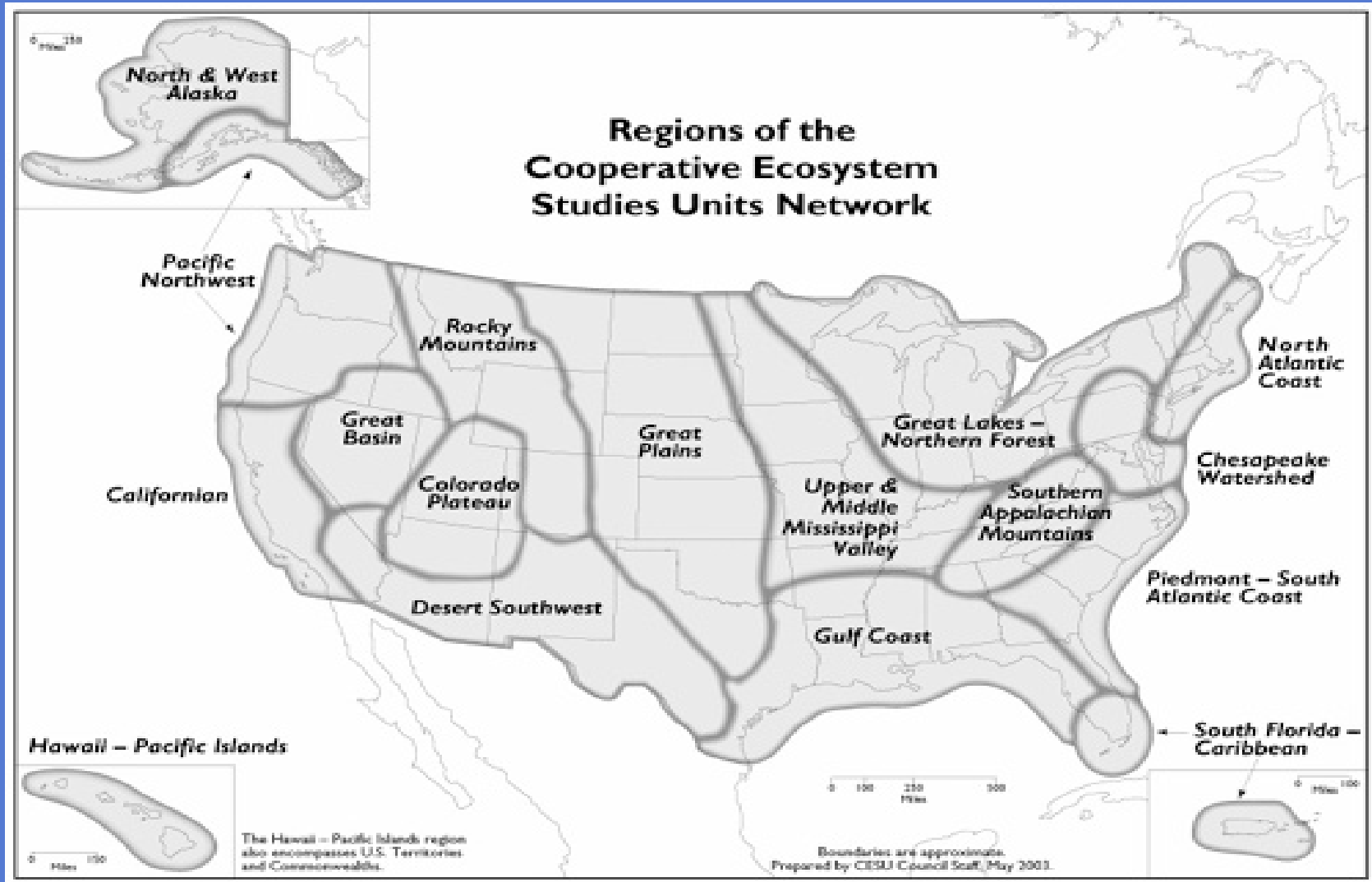
U.S. Department of the Interior
Bureau of Reclamation

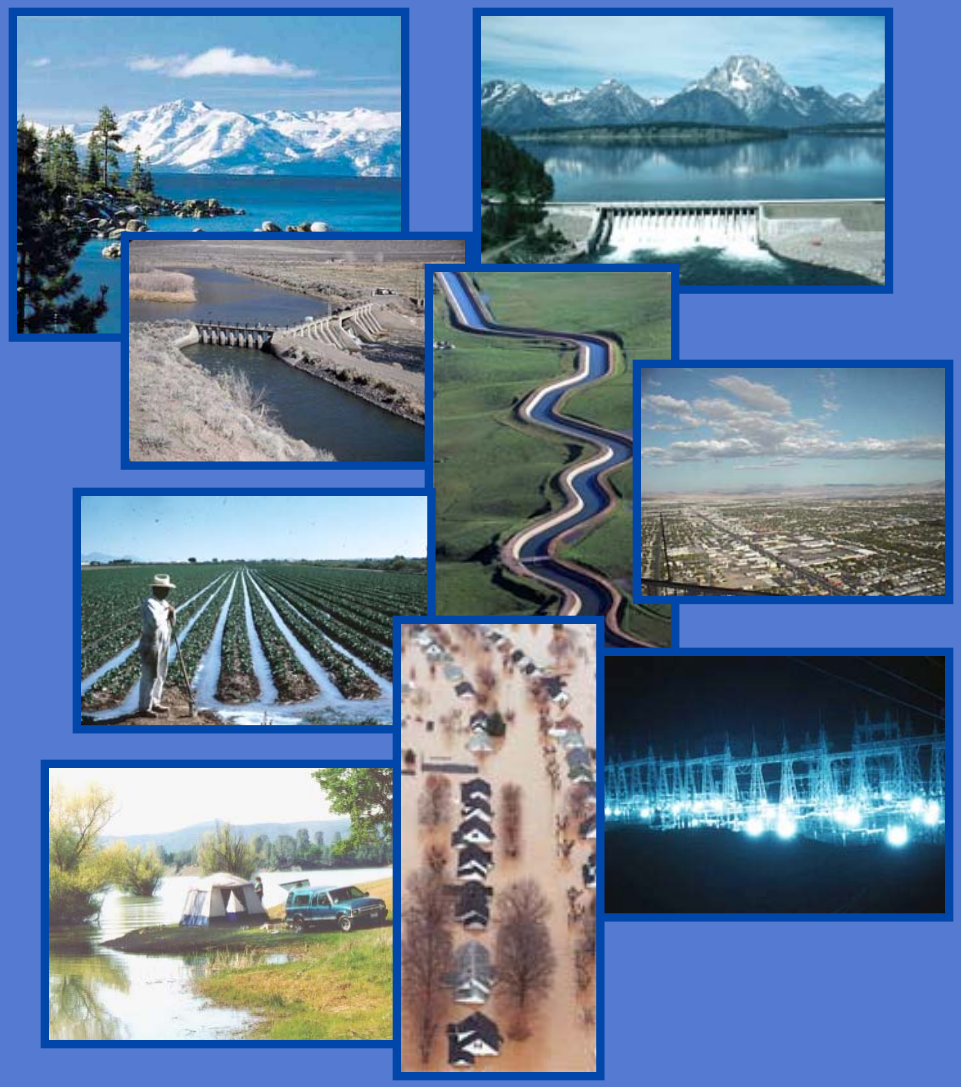
The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

RECLAMATION
Managing Water in the West

RECLAMATION



RECLAMATION



348 Reservoirs

245 Million acre-feet of water storage

254 Diversion dams

16,000 Miles of canals

$9 Billion annual agricultural benefits

M&I benefits to more than 31 million people

58 Hydropower facilities powering over 6 million homes

308 public recreation areas visited by more than 90 million people each year

More than $12 billion avoided flood damages since 1959

By its mere presence and ownership of facilities, Reclamation directly influences water use and supply patterns in most major western river basins

RECLAMATION

R&D Office Responsibility

- **Science and Technology Program**

  Internal R&D focused on Reclamation mission-core needs

- **Desalination and Water Purification Research Program**

  External R&D focused on National water supply needs

- **Commercialization and Cooperative R&D with Private Sector**

  Federal Technology Transfer Legislation

- **Cooperative Ecosystem Study Units**

  Integrates university scientific rigor and objectively into Reclamation science and R&D

- **By request, support Reclamation projects that have project specific science, or R&D activities. Project specific R&D and scientific studies are managed in the Regions.**

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Bureau of Reclamation
Science & Technology Program Roadmap

R&D³ Outputs that improve Knowledge & capabilities

- Water & Power Infrastructure Reliability & Safety
- Water Delivery Reliability
- Reservoir & River Operations Decision Support
- Water Supply Technologies

What researchers do

Coordination
Collaboration
Outreach
Partnerships
Deployment

Reclamation Resource Management Strategies that utilize R&D³ Outputs

- Implement and/or improve watershed and river system operational decision modeling
- Increase quantity and quality of water using desalination and other water purification technologies
- Develop and implement integrated invasive species management plans
- Implement improved water delivery technologies on Reclamation project lands
- Anticipate and address environmental concerns before water deliveries and supplies are impacted
- Implement methods that improve affordability, dependability, and lifecycle of hydropower, water storage, and delivery infrastructure
- Implement improved hydroelectric technologies and practices at Reclamation hydropower facilities
- Increase the use of water banks, water exchanges, and other best water management practices

What resource managers do

Toward meeting stakeholders' needs and taxpayer values

Reclamation End Outcomes

What researchers & resource managers cause to happen

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Prioritization Tools

1. Program Steering Team Priorities
2. Administration Priorities
3. Proposal Relevancy Ratings

How are the priority tools used?

1. **Budget Formulation**
2. **R&D Funding Decisions**

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Collaboration and Coordination with Universities, State and Other Federal Agencies

A few of the opportunities:

- ✓**Cooperative Ecosystem Study Units (CESU's)**
- ✓**External Proposal Peer Review**
- ✓Water Resources Research Institutes
- ✓National Science Foundation
- ✓Collaboration and Coordination Working Groups

Expectations: Leverage resources, avoid redundancy, integrates external scientific rigor and objectivity, speeds wide-spread deployment and use by involving stakeholders.

What Is The Characteristics We Should Seek In Our Researchers, Partners, and Collaborators?

An Objective and Passionate Pursuit of

WATER FOR THE WEST

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