Agenda Overview

- Recapture / Recirculation
- Investment Strategy
- Lecture Series 1: Water Infrastructure Funding Opportunities
- Lecture Series 2: SJRRP Framework for Implementation Update
- Restoration Flows Guidelines
- Part III Projects
- Next Meeting Dates and Locations
Recapture / Recirculation
Long-term R&R EIS

• Planning and impacts analysis for WY 2018 and beyond.

• NEPA-only document
  – No clear CEQA lead
  – Prepare EIS compliant with CEQA Guidelines

• Alternatives Development Phase
  – Scoping meetings August 2015
R&R Plan

• Recirculation Chapter revised in 2013 with Friant Contractor input

• Focus for 2015: largely complete Delta Recapture Chapter and associated operations agreements

• Schedule
  - Revised Admin Draft Plan: May 2016
  - Draft Plan: July 2016
  - Final Plan: September 2016
Investment Strategy
Final Investment Strategy Report

- Final Report is complete
- Available on SJRRP website
Lecture Series 1: Water Infrastructure Funding Opportunities
Drought Response Program
FY 2015 Funding Opportunities

Sheri Looper
Resource Management Division
Overview

• Background

• FY 2015 Drought Funding Opportunity Announcements (FOA)
  – Allocation of Funding
  – Eligible Applicants
  – Resiliency Project Examples
  – Evaluation Criteria
  – Application Process

• Other Funding Opportunities
Reformulation of the Existing Drought Program

- Historically, most Drought Program funding was used for emergency response actions -- very little funding has been used for planning or to build long-term resilience to drought.

- New Drought Response Program will support a proactive approach for non-Federal partners to prepare for and respond to drought.
Reformulation of the Existing Drought Program

• According to FEMA, mitigation—taking steps ahead of time to prevent or lessen known impacts from a natural disaster—saved $4 for every $1 expended.

• Planning ahead is more efficient and effective than taking measures in a crisis.
## Funding Opportunity Announcements
### Allocation of Funding

<table>
<thead>
<tr>
<th>Element</th>
<th>FY15 Funding ($5M total)</th>
<th>50% Cost Share</th>
<th>Number of plans/projects</th>
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</thead>
<tbody>
<tr>
<td>Drought Contingency Planning</td>
<td>$1-2M depending on demand</td>
<td>Required, waiver available</td>
<td>5-10 (up to $200k per plan)</td>
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<tr>
<td>Drought Resiliency Projects</td>
<td>$2-3M depending on demand</td>
<td>Required</td>
<td>7-11 (up to $300k per project)</td>
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<tr>
<td>Program Element</td>
<td>Eligible Applicants</td>
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<tr>
<td>------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<tr>
<td>Drought Contingency Planning</td>
<td>States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority located within the 17 Western U.S. States and Hawaii</td>
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<td>Drought Resiliency Projects</td>
<td>States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority located in the western United States or Territories as identified in the Reclamation Act of June 17, 1902, as amended</td>
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</table>
Drought Contingency Planning

• Defined as actions taken by individuals, industry, government, and others before a drought occurs to mitigate impacts and conflicts.

• Comprehensive plan to address drought and plan in advance of a crisis.
  • How will you recognize the next drought in the early stages?
  • How will the drought affect you?
  • How can you protect yourselves?
Drought Contingency Planning Evaluation Criteria

• Need for a Drought Plan or Plan Update (40 points)
  – Status of existing drought plan and the drought risks to be addressed in the plan

• Diversity of Stakeholders (35 points)
  – Letters of support and proposed outreach efforts

• Project Implementation (20 points)
  – Implementation plan and availability of data, models, and qualified staff

• Nexus to the Bureau of Reclamation (5 points)
  – Connection to a Reclamation project or activity
Drought Resiliency FOA
Project Requirements

• Supported by an existing drought plan

• Projects that build resiliency to drought by:
  – increasing the reliability of water supplies;
  – improving water management
  – facilitating the sale, transfer, or exchange of water; and
  – providing benefits for fish and wildlife and the environment

• Completed within two years
## Drought Resiliency FOA – Example Projects

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>Infrastructure Improvements:</td>
<td>Lowering surface water intakes, develop/expand small-scale water storage, expand recharge programs, construct wells</td>
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<tr>
<td>Measurement, Modeling, and Monitoring</td>
<td>Water meters, online drought management tools, improved water models</td>
</tr>
<tr>
<td>Facilitating the Sale, Transfer, or Exchange of Water</td>
<td>Developing a water bank, or systems and programs that support water marketing, such as online tools that link buyers and sellers, or that help identify transfer priorities within a basin</td>
</tr>
<tr>
<td>Protection for fish and Wildlife and the Environment</td>
<td>Providing benefits for fish and wildlife and the environment: Installing fish screens and diversion structures, habitat management/ restoration</td>
</tr>
</tbody>
</table>
Drought Resiliency Projects
- Evaluation Criteria

• Project Benefits (35 points)
  – Project will make additional water supplies available, or improve operational flexibility or water management.

• Drought Planning and Preparedness (25 points)
  – Proposed project is supported in an existing drought plan

• Actual or Potential Drought Impacts (20 points)
  – Severity of ongoing/recent/projected drought in project area and existing or potential impacts (e.g., to public health, economic losses, environment or other impacts)

• Nexus to Reclamation (15 points)
  – Connection to a Reclamation project or activity

• Project implementation (5 points)
  – Implementation plan and schedule
Application Process

- Posted FOA on May 11, 2015
- 45-Day application period closing June 25, 2015
- Grants.gov
  - Drought Planning: R15AS00047
  - Drought Resiliency: R15AS00046
- ARC Review early July
- Selections announced in August, 2015
- Awards made prior to end of FY 2015
R15AS00047 or R15AS00046
VIEW GRANT OPPORTUNITY

R1SA00047
WaterSMART: Drought Contingency Planning Grants for Fiscal Year 2015
Department of the Interior
Bureau of Reclamation

SYNOPSIS DETAILS  VERSION HISTORY  RELATED DOCUMENTS  APPLICATION PACKAGE

Print Synopsis Details

The synopsis for this grant opportunity is detailed below. Following this paragraph, this synopsis contains all of the updates to this document that have been posted as of 5/11/2015. If updates have been made to the opportunity synopsis, update information is provided below the synopsis.

If you would like to receive notifications of changes to this grant opportunity, click send me change notification emails. The only thing you need to provide for this service is your email address. No other information is requested.

Any inconsistency between the original printed document and the disk or electronic document shall be resolved by giving precedence to the printed document.

<table>
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<th>General Information</th>
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<td>Opportunity Category: Discretionary</td>
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<td>Funding Instrument Type: Grant</td>
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<td>CFDA Number(s): 15.514 – Reclamation States Emergency Drought Relief</td>
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<td>Posted Date: May 11, 2015</td>
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<td>Creation Date: May 11, 2015</td>
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<td>Original Closing Date for Applications: June 25, 2015</td>
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<td>Estimated Total Program Funding: $2,000,000</td>
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<td>Award Ceiling: $200,000</td>
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<td>Award Floor: $0</td>
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Eligibility

Eligible Applicants: Others (see text field entitled “Additional Information on Eligibility” for clarification)

Additional Information on Eligibility: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority located in the Reclamation States or Hawaii.
VIEW GRANT OPPORTUNITY

R15AS00047
WatersMART: Drought Contingency Planning Grants for Fiscal Year 2015
Department of the Interior
Bureau of Reclamation

Download Opportunity Instructions and Application. You have chosen to download the application for the following opportunity.

CFDA Number: 15.514 - Reclamation States Emergency Drought Relief
Opportunity Number: R15AS00047
Competition ID:
Competition Title:
Agency: Bureau of Reclamation
Opening Date: 05/11/2015
Closing Date: 06/25/2015

Please review Applicant FAQs as you prepare and submit your application.

To download an application, you will need to submit an email address so that you can be notified of any changes to the application before the closing date. Your email address will allow us to email you in the event this opportunity is changed and republished on Grants.gov before its closing date.

Email: 
Confirm Email: 
No, I do not wish to provide my email address
Submit

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COMMUNITY: USA.gov Whitehouse.gov USASpending.gov SBA.gov FSRS.gov SAM.gov DUNS Request

GRANTS.GOV
1-800-518-4726
support@grants.gov
VIEW GRANT OPPORTUNITY

R15AS00047
WaterSMART: Drought Contingency Planning Grants for Fiscal Year 2015
Department of the Interior
Bureau of Reclamation

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Closing Date: 06/25/2015

Thank you for registering to receive notification of changes to this opportunity. Should any changes be made to the opportunity or its instructions you will be notified via e-mail at slooper@usbr.gov.

⚠️ Please review Applicant FAQs as you prepare and submit your application.

Download the instructions and the application by selecting the appropriate link below. Instructions will open directly in your browser and can be saved to your computer. Packages must be saved directly to the computer. You do not need Internet access to read the instructions or the application once you save them to your computer.

1. Download Application Instruction
2. Download Application Package
Other Reclamation Funding Opportunities

- Agricultural Water Conservation and Efficiency Grants
- Bay-Delta Restoration Water Use Efficiency Grants
- WaterSMART: Water and Energy Efficiency Grants
Other Funding Opportunities

- **CDFA**
  - STATE WATER EFFICIENCY AND ENHANCEMENT PROGRAM

- **USDA**
  - NRCS, EQIP

- **Ca.gov/drought**
  - California Drought Assistance Programs
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<tr>
<th>Agency Name</th>
<th>Programs Available</th>
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<td>California Department of Aging</td>
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<tr>
<td>California Department of Business Oversight</td>
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<td>Division of Financial Institutions</td>
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<td>State Banking</td>
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<td>California Department of Community Services and Development (CSD)</td>
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<td>Low-Income Home Energy Assistance Program (LIHEAP)</td>
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<td>California Department of Fish and Wildlife</td>
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<td>California Department of Food and Agriculture</td>
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<td>California Department of Health Care Services (DHCS)</td>
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<tr>
<td>Drought Housing Social Subsidies (DHSS)</td>
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<td>California Department of Public Health (CDPH)</td>
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<tr>
<td>Safe Drinking Water State Revolving Fund</td>
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<td>California Department of Public Health (CDPH)</td>
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<td>Prop 84 Part 2 Emergency Grant Funds Project</td>
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<td>California Department of Public Health (CDPH)</td>
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<td>Women, Infants, and Children (WIC) Supplemental Nutrition Program</td>
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<td>California Department of Social Services (CDSS)</td>
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<td>CalFresh</td>
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<td>Drought Emergency Food Assistance Program (DEAP)</td>
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<tr>
<td>Questions?</td>
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<td><strong>Drought FOAs</strong></td>
<td><strong>General</strong></td>
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<tr>
<td>Irene Hoiby</td>
<td>Sheri Looper</td>
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<td><a href="mailto:IHoiby@usbr.gov">IHoiby@usbr.gov</a></td>
<td><a href="mailto:slooper@usbr.gov">slooper@usbr.gov</a></td>
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<td>303-445-2025</td>
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Lecture Series 2:
Framework for Implementation Update
WHAT ARE WE DOING AND WHY?
Why are we Updating the Framework?

1. Common vision/path forward for implementing the Program

2. Identify Implementing Agencies roles and responsibilities with more accountability

3. Realistic schedules and funding outlooks so the Program can demonstrate success
Why bother?  
Why not let the Settlement fail?

Significant risks for all parties:

Reclamation - Judge continues remedy phase, orders flows  
- SWRCB includes instream flow requirements on water rights

NRDC - No channel improvement projects  
- No active fish reintroduction

Friant - Flow releases as ordered by Judge  
- No Water Management Goal projects  
- SWRCB instream flow requirements

Third Parties - Flow releases as ordered by Judge  
- No seepage, levee stability, third party protections and other infrastructure projects  
- Uncertain future California Fish and Game Code 5937 compliance at Mendota Dam and Sack Dam  
- SWRCB instream flow requirements
Actions Within the Scope

SJRRP Challenges and Problems?

Yes

Can Reclamation do something about it?

No

Yes

Outside of Scope of Framework

Within the Scope of Framework

None here

Great, We’re Done!
Will Not Consider...

- Changes to or violations of the Settlement
- Changes to or violations of the Act
- Changes to or anything inconsistent with Reclamation law or policy
- Anything that violates State or Federal law
- Returning to court for a “better” deal
- “Just get more money”
- Not implementing the entire Settlement or Settlement Act (no cherry picking actions)
- Miracles in addressing staffing, schedule, and process constraints
- Reclamation/Congress just go “fix it”
- Hoping it fixes itself
## Schedule of Key Actions

<table>
<thead>
<tr>
<th>2015-2019</th>
<th>2020-2024</th>
<th>2025-2029</th>
<th>2030+</th>
</tr>
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<tbody>
<tr>
<td><strong>Goal: 1,300 cfs Capacity in all Reaches</strong></td>
<td><strong>Goal: Increased Capacity</strong></td>
<td><strong>Goal: Phase 1 Projects Complete</strong></td>
<td><strong>Goal: All Remaining Projects Complete</strong></td>
</tr>
<tr>
<td>- Friant-Kern Capacity Restoration</td>
<td>- Part III / Financial Assistance for Groundwater Banks</td>
<td>- Reach 4B</td>
<td>- Ongoing Operations and Maintenance</td>
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<tr>
<td>- Madera Canal Capacity Restoration</td>
<td>- Reach 2B</td>
<td>- Mud and Salt Sloughs</td>
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<tr>
<td>- Mendota Pool Bypass</td>
<td>- Arroyo Canal and Sack Dam</td>
<td>- Seepage Projects to 4,500 cfs</td>
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<tr>
<td>- Conservation Facility</td>
<td>- Reach 4B Land Acquisition</td>
<td>- Levee Stability to 4,500 cfs</td>
<td></td>
</tr>
<tr>
<td>- Seepage Projects to 1,300 cfs</td>
<td>- Seepage Projects to 2,500 cfs</td>
<td></td>
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</tr>
</tbody>
</table>
Key Foundational Factors and Assumptions

• Around $50 million per year maximum additional federal appropriations
• Full Restoration Flows before Phase 2 projects are initiated
• Everyone gets better together
  – NRDC, Flows and fish in the river
  – Friant, Progress on WMG commensurate with increases of flows
  – 3rd Parties, Avoidance of “take” under ESA
• Only specific 3rd Party protections are required to be in place before actions are taken
5-Year Vision
5 Year Vision: Connectivity (FY 2015 – 2019)

- Flow connectivity and fish passage, such that adult and juvenile salmon can complete migration without human assistance
- Continue to implement Water Management Actions to reduce or avoid supply impacts to Friant Division contractors
5 Year Vision: Connectivity (FY 2015 – 2019)

Key Elements

- Seepage Projects and Levee Improvements to allow for flows up to 1,300 cfs
- Mendota Pool Bypass Completed
- Friant-Kern and Madera Canal Capacity Restoration
Flow Related Activities

• PEIS/R ROD Conservation Strategy and Mitigation Actions

• Seepage and Levee Stability to allow up to 1,300 cfs in Reach 2B
Channel and Structural Improvements

• **Mendota Pool Bypass**
  – Minimize trap and haul of fish

• **Reach 4B, Eastside Bypass/Mariposa Bypass EIS/R and Report to Congress**
  – Routing decision to determine bypass levee repairs

• **Passage at Key Barriers**
  – Minimize trap and haul of fish
Fish Reintroduction

- Construction & operation of Salmon Conservation and Research Facility
- Spring-run donor stock collection and tagging
- Trap and haul fish until Mendota Pool Bypass is completed
- Permit for use of wild stock
Water Management

• Continued Recapture and recirculation of Restoration Flows, RWA accounts

• Recapture and Recirculation Plan

• Recirculation EIS/R

• Friant-Kern and Madera Canal Capacity Restoration Projects

  – Construct ASAP to maximize funding value (costs not indexed)
10-Year Vision
10 Year Vision: Increased Capacity (FY 2020 – 2024)

• SJR Restoration Fund available without further appropriation in FY 2020
  – Level of construction action increases with available funding
  – Make all major project decisions and award funds
10 Year Vision: Increased Capacity (FY 2020 – 2024)

Key Elements

- Arroyo Canal Fish Screen & Sack Dam Fish Passage Construction

- Increase Reach 2B channel capacity to 4,500 cfs, levee construction

- Seepage Projects and Levee Improvements to allow for flows up to 2,500 cfs

- Continue implementing Water Management Goal
Flow Related Activities - 10 Year

- Conservation Strategy and Mitigation Actions from PEIS/R ROD
- Flow management and monitoring
- Seepage and Levee Stability
  - Can get flows to 2,500 cfs in all reaches
  - Better manage water temperatures and improve salmon survival
Channel and Structural Improvements - 10 Year

• 2B levee and channel improvements to 4,500 cfs
  – Relieves flow constraint in upper reaches
  – Full Spring pulses to Mendota Pool

• Land acquisition for Reach 4B, Eastside Bypass/Mariposa Bypass
  – Landowners likely prefer certainty of early land acquisition

• Construct Arroyo Canal Fish Screen/Sack Dam Fish Passage
  – Subsidence could further delay or increase costs

• Environmental Compliance for Salt and Mud Slough Seasonal Barriers
Fish Reintroduction - 10 Year

• Operation of Salmon Conservation and Research Facility
• Spring-run donor stock collection and tagging
• Prepare Report to Congress (Section 10011(d))

• Segregation Action Cost not included
• Water Management Goal Oversight
• Recapture and Recirculation Plan Implementation
• Award funding for Groundwater Banking facilities
• Any remaining actions on the Madera Canal Capacity Restoration Project
15-Year Vision
15 Year Vision: Conveyance
(FY 2025 – 2029)

• Increase capacity of all reaches to 4,500 cfs
• Reach 4B Project
• Continue to implement Water Management Actions to reduce or avoid supply impacts to Friant Division contractors
15 Year Vision: Conveyance (FY 2025 – 2029)

Key Elements

- Increase channel capacity to allow for flows up to 4,500 cfs
- Reach 4B Channel and Structural Improvements
- Reach 4B/ESB High Flow Routing
- Salt and Mud Slough Seasonal Barrier Projects
- Continue implementing Water Management Goal
15+ Year Vision
Beyond 15 Year Vision (FY 2030+): Monitoring, Maintenance and Final Project work

• Complete remaining construction actions
  – all Paragraph 11(b) projects
  – all Paragraph 12 projects, if any recommended

• Monitor and maintain system for long-term

• Phase out hatchery production
  – Phase out hatchery production and population augmentation
  – Monitor self-sustaining, naturally reproducing populations

• Continue implementing Water Management Goal
  – Continue recapture and recirculation, tracking and allocating RWA water
Beyond 15 Year Vision (FY 2030+): Monitoring and Maintenance

Key Elements

Chowchilla Bifurcation Fish Passage Construction

Gravel Pit Filling and/or isolation
Costs and Funding Sources
## Cost Summary

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<td><strong>Flow Actions</strong></td>
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<td>Conservation Strategy / Mitigation Measures</td>
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<td>Flows</td>
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<td>Passage at Key Barriers</td>
<td>Part of 4B</td>
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<td><strong>Fish Reintroduction</strong></td>
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<td>All Other Fish Reintroduction</td>
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<td>Conservation Facility</td>
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<td>Water Management Goal &amp; Friant Division Improvements</td>
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<td><strong>Total</strong></td>
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<td><strong>Total “Core” Projects</strong></td>
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<td>Levee Stability</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>$1,081</td>
<td>$1,539</td>
</tr>
</tbody>
</table>
Key Changes in Costs

• Program extended 10 years – increased Admin costs
• Reach 4B costs increased
• Seepage and Levee Stability costs increased
  – About $500M total
• Added in Paragraph 11(b) projects
• Costs now provided in 2015 dollars
# Funding Needs and Sources

(FY 2015 to FY 2029, in thousands)

<table>
<thead>
<tr>
<th>Funding Needs Remaining</th>
<th>Funds in 2015 Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Estimated Federal Funding Need</td>
<td>$1,095,081</td>
</tr>
<tr>
<td>Total Estimated State Funding Need</td>
<td>$137,277</td>
</tr>
<tr>
<td>Total Estimated State Funding Need with Levee Stability (non-SJRRP cost)</td>
<td>$306,677</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Funding Sources Remaining</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SJRR Fund (^1)</td>
<td>$356,730</td>
</tr>
<tr>
<td>CVP Restoration Fund ($2,448 annual when indexed to 2015)</td>
<td>$36,724</td>
</tr>
<tr>
<td>New Federal Appropriations (Part I)</td>
<td>$268,953</td>
</tr>
<tr>
<td>New Federal Appropriations (Part III)</td>
<td>$42,324</td>
</tr>
<tr>
<td>State Funding Remaining</td>
<td>$140,198</td>
</tr>
<tr>
<td>Total Estimated Remaining Funding Sources</td>
<td>$704,731</td>
</tr>
</tbody>
</table>

| Anticipated Federal Deficit                                  | $390,350               |
| Anticipated State Deficit                                    | -$2,921                |
| Anticipated Non-SJRRP State Funding Needs                   | $306,677               |
| **Anticipated State Deficit (if Levee Stability is a state SJRRP cost)** | **$303,756**           |

Note: 1. Includes estimated future Unreleased Restoration Flows sales, RWA sales, and Friant surcharge collections.
QUESTIONS?
Restoration Flows Guidelines
Restoration Flow Guidelines 2.0

• Procurement Request in progress for Contractor assistance with updating RFGs and other Water Management Goal support

• Outstanding Issues:
  – Forecasting Restoration Flows, including tools for mitigating uncertainty.
  – Gravelly Ford, minimum compliance point or flow target.
  – Managing flood management releases to best meet riparian recruitment needs.
5 year URFs Agreements Preliminary Schedule:

- Technical meetings: July/August 2015
- Develop Draft Agreements: August 2015
- Public Notice (if required): August 2015
- Negotiations: August/September 2015
- Final Agreement: October 2015
- NEPA compliance (if needed): August - November 2015
- Public Comment Period: October - December 2015
- Address comments; update Agreement: November/December 2015
- Execute Agreements: mid-January 2016
- Court Confirmation (if needed): January/February 2016
- Signed, sealed, delivered: February 28, 2016
Part III
Friant-Kern Canal Capacity Restoration

• Value Engineering Study – January 2015

• Re-evaluating options to:
  – Phase lining raise by check structure
  – Lower maximum design capacity
  – Target existing capacity bottlenecks

• Revising Schedule
Madera Canal Capacity Restoration

• Low-Flow Bypass Valve Project: VE Study June 1-5, 2015

• Feasibility Study:
  – focus on off-canal alternatives proposed by Chowchilla WD and Madera ID
  – Alternatives Analysis TM and Stakeholder Meeting, May 27, 2015
Friant-Kern Canal Reverse Flow Pump-Back Project

• Red Bluff pumps and motors purchased and transported to FWA storage facility

• $2.38M in drought funding announced in February 2015

• Concerns about water quality have delayed commitment of funds
Groundwater Financial Assistance

Tulare ID- Cordeniz Basin Construction & Exchange Program

- 60 acre basin
- Modifying Grant Scope
- Environmental Compliance complete Fall 2015
- Construction complete December 2016
Groundwater Financial Assistance

Pixley ID- Joint Groundwater Bank
- 560 acre bank with 4.5 mile pipeline to new FKC turnout
- Revising schedule

Porterville ID- In-Lieu Project
- Area #1: 1000 acres connected to Wood-Central Ditch
- Area #2: 650 acres connected to FKC
- Revising schedule

Shafter-Wasco ID- Madera Avenue Intertie
- Project modification proposed
Next Meetings
## Next Meetings

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>August 21, 2015</td>
<td>Visalia</td>
</tr>
</tbody>
</table>