

Water Resource Committee Basin Study Kickoff Meeting

11/27/18

Background/History



• Colorado River supplies water to:

- 7 basin states and Mexico
- Approximately 40 million people
- Approximately 4 million acres of farmland

Colorado River Storage and Inflow



Values for Water Year 2018 are projected. Unregulated inflow is based on the latest CBRFC forecast dated June 18, 2018. Storage and percent capacity are based on the June 2018 24-Month Study.

Percentages on the light blue line represent percent of average unregulated inflow into Lake Powell for a given water year. The percent of average is based on the period of record from 1981-2010.

2007 Guideline Reductions to Arizona



Source: Paul Orme

Drought Contingency Plan Reductions



Source: Paul Orme



Basin Study

- CAP Ag Pool decline
- Shortage reductions
- Assured Water Supply Program
- Long-Term Planning



Eloy and Maricopa-Stanfield (EMS) Basin Study

Kick-Off Meeting

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Basin Study Agenda

- Overview of the Basin Study
- Administrative Details
- Review Tasks and Schedule
- Next Steps
- Questions/Discussion
- Next meeting

Overview of the Basin Study

- Study Area
- Plan of Study
- Goals and Objectives
- Study Constraints
- Previous Work
- Study Approach
- Roles and Responsibilities
- Final Report





EMS Basin Study Area



Plan of Study

- Describes specific tasks
- Responsible parties
- Associated cost, schedule, and proposed method

Goals and Objectives

- Develop a foundation for future water management
- Evaluate future water supply and demand imbalances
- Develop potential strategies to meet future demands
- Trade-Off Analysis

The Study will not:

- Provide recommendations
- Propose Federal support of any specific project, program or plan
- Commit Federal funds

Previous Work

30 reports cited in the Plan of Study from:

- Arizona Department of Water Resources
- Arizona Department of Environmental Quality
- Local Native American Communities
- Bureau of Reclamation
- Central Arizona Project

Study Management Structure

- Study Managers
- Project Team
- Sub-Teams
- Stakeholder Advisory Group

Decision Making Process

- Collaborative effort
- Day-to-day decisions
 - Project Managers
 - Supported by Project Team



- Incorporate feedback provided by stakeholders
- Important decisions made on a consensus basis

Final Report

Contain the following elements:

- Water supply and demand projections
- Changing water reality results
- Options for supplying improving adequate water
- Trade-off analysis
- Findings and conclusions



Administrative Details

- Monthly meetings for Project Team
- Location
- Sign-in sheets management
- Cost-share budget tracking

Project Website

• Pinal Partnership (PP) Webpage:

http://pinalpartnership.com/ems-basin-study/

- Meeting Notes and Agenda
- Action items included in invite with agenda



Study Tasks

| Study Task | Primary Responsibility |
|---|------------------------|
| 1. Climate Projections | Reclamation |
| 2. Supply and Demand Assessment | Study Participants |
| 3. Update Groundwater Model | Contractor |
| 4. Run Groundwater Model | Contractor |
| 5. Infrastructure Analysis | All |
| 6. Adaptation and Mitigation Strategies | All |
| 7. Economic Analysis of Strategies | Reclamation |
| 8. Basin Study Report | All |
| 9. Technical Sufficiency Review | Reclamation |
| 10. Communication and Outreach | All |
| 11. Management and Administration | Study Managers |

Study Approach





Schedule

| Section 5 Tasks | Description | Year 1 Starts Nov 2018 | | | Year 2 Starts Nov 2019 | | | | Year 3 Starts Nov 2020 | | | | |
|--------------------|---------------------------------------|---------------------------|-------------|-------------|---------------------------|-------------|-------------|-------------|---------------------------|-------------|-------------|-------------|-------------|
| | | Nov 2018 | Feb 2019 | May 2019 | Aug 2019 | Nov 2019 | Feb 2020 | May 2020 | Aug 2020 | Nov 2020 | Feb 2021 | May 2021 | Aug 2021 |
| 1 | Climate Change Analysis | | x | x | | | | | | | | | |
| 2 | Supply and Demand Assessment | х | х | x | х | | | | | | | | |
| 3 & 4 | Groundwater Model | | | x | x | x | x | | | x | | | |
| 5 | Conduct Infrastructure Analysis | | | | x | | | x | x | | | | |
| 6 | Adaptation & Mitigation Strategies | | | | | | | | x | х | | | |
| 7 | Conduct Economic Analysis | | | | | | | | | x | х | | |
| 8 | Basin Study Report | | | х | х | | x | | х | | x | x | x |
| 9 - 11 | Project Management / Admin | x | x | x | x | x | х | x | x | x | х | x | x |

Next Steps

- What is your role in the project?
- Supply and Demand Sub-Team
- Other Possible Sub-Teams
 - Groundwater modeling
 - Climate variation effects
 - Infrastructure analysis



Proposed Future Meetings

Project Team

Supply and Demand Sub-Team

Groundwater Sub-Team

Stakeholders

Tentative Dates Early Dec 2018

Early Dec 2018

Jan 2019 Spring 2019

Questions and Discussion



Thank You!

- Recap Action Items
- Sign-up for a Sub-Team
- PowerPoint will be available on the project website

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Project Website: http://pinalpartnership.com/ems-basin-study/

> Photo: 1st Place Winner: Water in Pinal County Sue Cullumber, "Ayers Lake at Sunset" Boyce Thompson Arboretum 22