

AMERICAN RIVER BASIN STUDY WORKSHOP #2 WORKBOOK

Workshop Participant Name, Agency/Affiliation:

BACKGROUND

The **American River Basin Study (ARBS)** will develop projections of future water supply and demand in the basin, including an assessment of risk to water supplies under uncertain future climate conditions, develop and refine basin-specific integrated water management strategies to improve regional water supply reliability, and improve the Bureau of Reclamation's flexibility in operating Folsom Reservoir to meet flow and water quality standards and also protect endangered fishery species in the lower American River.



REGIONAL WATER VULNERABILITIES

As part of the ARBS, the project team has identified seven vulnerabilities to the regional water system in the American River Basin. These vulnerabilities are listed in the table below.

Regional Water Vulnerabilities
Water supply-demand imbalance that varies geographically
Losing environmental protection of the Lower American River
Increased water supply shortage during intensified droughts
Lack of water security for small water systems and rural communities in foothills without alternative sources of water
Reduced level of flood protection in the Sacramento area during intensified flood conditions
Decreased surface water availability for direct use or in-lieu groundwater recharge that corrected regional groundwater overdraft condition since 1990s
Increased long-term water quality risks from wildfires due to intensified weather conditions and infestation
Water supply-demand imbalance that varies geographically
Losing environmental protection of the Lower American River

WORK GROUP INSTRUCTIONS

One of primary objectives of the ARBS is to identify water management strategies and actions that will remain functional across multiple future potential climate and socioeconomic conditions to 2100 AD. To this end, **the ARBS project team is seeking your help to identify potential measures the region could implement to address the water management vulnerabilities listed on Page 1 of this workbook.**

The project team has already identified an initial list of measures based on existing planning documents and other studies conducted in the American River Basin region. These measures have been organized into five key themes:

- Improve demand management
- Diversify water supplies
- Improve operational flexibility
- Improve resource stewardship
- Secure institutional agreements to enable flexibility

A brief description and a list of example measures for each them is provided on the following pages.

Each workgroup will have 10 minutes per theme to collaboratively identify potential adaptation measures that could address the regional water vulnerabilities. A

designated facilitator will lead the group in discussion. We ask that you help your group get through all five themes within the allotted time by staying on topic and keeping your suggestions concise. Your feedback throughout the discussion will be recorded by a designated notetaker. You may also write your input in this workbook and turn it in at the end of the workshop. At the end of the discussion, each group will summarize their discussion and share it with the rest of the workshop participants.

American River Basin Study Workshop #2
Addressing Potential Climate Change Effects on Water Management
October 15, 2019

WORKGROUP ROLES

Role	Responsibility
Facilitator	Each workgroup will have a designated facilitator. The facilitator's role is to keep the discussion on track and on time. The facilitator will also serve as the notetaker for the group.
Spokesperson	Each group will be asked to designate a spokesperson to summarize the group's discussion. The spokesperson can be the facilitator or workgroup participant.
Participant	Each workshop participant is responsible for engaging in the discussion and following the workshop guidelines, provided below.

HOW TO USE THIS WORKBOOK

This workbook is intended to serve as a guide to help you through each discussion, as well as a space for you to record or brainstorm your ideas or suggested measures. We encourage, but do not require, for you to submit your workbook to the project team at the end of the workshop. Each workbook will be reviewed for content that may be included in the ARBS. If you would like to share your workbook, please turn it in at the end of the workshop in the designated location at the welcome desk.

ADAPTATION MEASURE THEME #1: IMPROVE DEMAND MANAGEMENT

Actions to reduce or better manage water demand.

EXAMPLE MEASURES TO IMPROVE DEMAND MANAGEMENT

- Increase agricultural water use efficiency
- Increase urban water use efficiency

PROVIDE YOUR INPUT

What measures or actions could the region implement to improve demand management and address the regional water vulnerabilities identified on page 1?

MEASURES TO IMPROVE DEMAND MANAGEMENT ADAPTATION

Write your responses here.

ADAPTATION MEASURE THEME #2: DIVERSIFY WATER SUPPLIES

Actions to develop new sources or uses of water supplies.

EXAMPLE MEASURES TO DIVERSIFY WATER SUPPLIES

- Increase regional water reuse
- Stormwater capture
- Develop additional points of delivery and/or water rights
- Expand portfolio diversification for all agencies

PROVIDE YOUR INPUT

What measures or actions could the region implement to diversify water supplies and address the regional water vulnerabilities identified on page 1?

MEASURES TO DIVERSIFY WATER SUPPLIES

Write your responses here.

ADAPTATION MEASURE THEME #3: IMPROVE OPERATIONAL FLEXIBILITY

Actions to improve overall system adaptability, resiliency, and flexibility. (Includes all types of systems – statewide, local, regional. Facilitators should encourage participants to clarify what scale they are suggesting for the measure.)

EXAMPLE MEASURES TO IMPROVE OPERATIONAL FLEXIBILITY

- Structure flexible exchange
- Expand flexible conjunctive use
- Increase water storage and their integrated operation

PROVIDE YOUR INPUT

What measures or actions could the region implement to improve operational flexibility and address the regional water vulnerabilities identified on page 1?

MEASURES TO IMPROVE OPERATIONAL FLEXIBILITY

Write your responses here.

ADAPTATION MEASURE THEME #4: IMPROVE RESOURCE STEWARDSHIP

Actions to improve natural resources management related to water (headwaters and lower American River).

EXAMPLE MEASURES TO IMPROVE RESOURCE STEWARDSHIP

- Improve headwaters and forest health
- Improve lower American River conditions

PROVIDE YOUR INPUT

What measures or actions could the region implement to improve resource stewardship and address the regional water vulnerabilities identified on page 1?

MEASURES TO IMPROVE RESOURCE STEWARDSHIP

Write your responses here.

ADAPTATION MEASURE THEME #5: SECURE INSTITUTIONAL AGREEMENTS TO ENABLE FLEXIBILITY

Actions to develop policies, protocols, and agreements that enable the flexible and efficient management of the region's water resources.

EXAMPLE MEASURES TO SECURE INSTITUTIONAL AGREEMENTS TO ENABLE FLEXIBILITY

- Resolve all pending Federal contracts and agreements
- Regional framework for transparency

PROVIDE YOUR INPUT

What measures or actions could the region implement to secure institutional agreements and address the regional water vulnerabilities identified on page 1?

MEASURE TO SECURE INSTITUTIONAL AGREEMENTS TO ENABLE FLEXIBILITY

Write your responses here.

WORK GROUP SUMMARY

Each group will have 5 minutes to collaboratively choose 3 – 5 main points from the discussion they would like to share with the other workshop participants and ARBS project team. The intent is not to summarize every point that was made, but provide a high-level overview of the key points or measures the group discussed. The notetaker should record points on the flipchart.

Following this, each workgroup must select one individual in the group to be the designated spokesperson. The spokesperson can be the facilitator, notetaker, or another workgroup member. The spokesperson will have 5 minutes to share the workgroup's summary with the rest of the room.