

## **Water Supply Performance Measures**

### ***Background***

CALFED is committed to implementing a balanced set of actions that contribute to meeting all Program objectives. In response to the 10-Year Action Plan, CALFED agencies agreed to develop a set of tangible indicators and performance measures they can monitor and report that demonstrate how well CALFED actions are meeting Program objectives.

### ***Defining Water Supply Performance Measures***

Historically, the CALFED Program objective for water supply reliability has been to “reduce the mismatch between Bay-Delta water supplies and current and projected beneficial uses dependent on the Bay-Delta system.” Another way to state the goal is to establish acceptable balance of Bay-Delta water used to protect resources within the Bay-Delta System with water used to meet demands outside the Bay Delta System. In order to assess how well Program actions are fulfilling the intent of this objective directly at least two things need to be considered: 1) some measure of the acceptable protection that is provided to beneficial uses in the Bay-Delta System that depend on water flow into or out of the Bay Delta system and (2) some measure of water supplies from the Bay-Delta for uses outside the Bay-Delta System.

The first measure can be assessed by determining the degree of compliance with established flow related standards or export limitations that have been established in water right decisions, Endangered Species Biological Opinions or other regulatory actions. It can also be assessed by evaluating how well programs like the Ecosystem Restoration Program are working to improve populations of at risk fish species in the Delta.

The second measure can be based on the amount of water diverted from the Delta for use outside of the Bay-Delta System. Of course, the amount of water diverted from the Delta for use outside of the Bay-Delta System does not provide a complete picture of water supply reliability for Delta water users who have multiple options to meet their demand for water. However, if CALFED agencies can improve the stability or certainty of Delta water supplies, Delta water users have the opportunity to better manage their diverse portfolios.

Since water from the Bay-Delta System is only one component within Delta water users' portfolios, the CALFED Program will not attempt to measure comprehensive end-user water supply reliability (including implementation of all water supply and other options available to local water management agencies).

## ***Recommended Strategic Objectives, Indicators, and Targets for the Water Supply Reliability Objective of the CALFED Program***

This section describes two proposed strategic objectives designed to provide a stable water supply from the Delta. The first strategic objective will be the focus of the CALFED Program, consistent with recommendations developed through the CALFED refocusing effort of 2005. The second strategic objective will be developed and evaluated primarily through the California Water Plan Update process, with significant coordination and communication between the Water Plan Update process and the CALFED Program.

### **Strategic Objective 1: Enhance Stability of Delta Water Supplies (CALFED Focus)**

The stability of water supplies for uses both within and exported from the Bay-Delta system is linked to the sustainability of the Delta ecosystem and Delta water quality for both aquatic species and municipal, industrial and agricultural uses. The following performance objectives describe how CALFED implementing agencies propose to measure progress toward enhancing long-term stability of Delta water supplies.

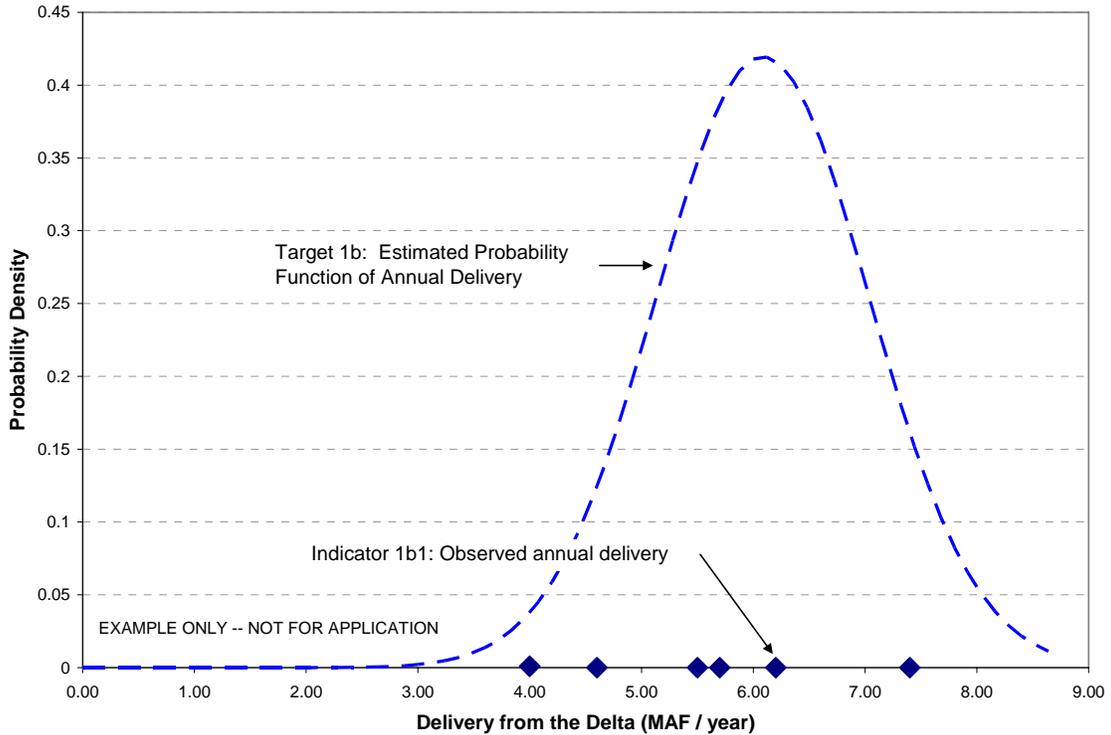
Performance Objective 1a: Provide water supply in sufficient quantity and timing to meet the regulatory baseline and additional contractual commitments for the protection of drinking water quality and ecosystem restoration. Water supplies for these purposes will be provided subject to the terms included in the Bay-Delta Water Quality Control Plan, ESA Biological Opinions, HCP and NCCP agreements, EWA Operating Principles agreement, and any other relevant regulations or agreements of the CALFED implementing agencies. These regulations and agreements should evolve based upon best available scientific understanding of the water supply needs to provide for water quality improvement and ecosystem restoration in the Bay-Delta system.

- Indicator 1a: The annual number of incidences when water quality, standards flow requirements, or other flow related agreements related to SWP and CVP operations throughout the Delta are not met.
- Target 1a: Zero incidences of not meeting water quality standards, flow requirements, or other flow related agreements throughout the Delta related to SWP and CVP operations.

**Performance Objective 1b:** Increase the certainty of Delta water deliveries relative to an estimated long-term delivery capability

- Indicator 1b1: Amount of water delivered in a water year.
- Indicator 1b2: A description of the conditions during the water year for each delivery (e.g. above average snowpack, salinity problems in Delta during July, etc.)
- Target 1b\*: Probability function for annual deliveries during some defined period of time (e.g., over next 10 years).

*\*Note: DWR and USBR might decide to prepare a target probability function that includes future CALFED actions.*



Performance Objective 1c: Increase the certainty of Delta water deliveries in the short-term. The primary component of water delivery certainty is the degree of confidence that a scheduled quantity of water will be delivered during the time planned (referred to here as delivery stability).

- Indicator 1c1: The amount of water scheduled to be delivered in the current year.
- Indicator 1c2: The amount of water actually delivered in the current year
- Indicator 1c3: The amount of uncompensated reductions in scheduled deliveries due to Delta export reductions to meet Endangered Species Act requirements or actions taken to protect at-risk Delta fish species during the current year.
- Target 1c: Zero uncompensated reductions in scheduled deliveries.

**Strategic Objective 2: End User Supply Reliability (To be administered by DWR and other agencies through the California Water Plan update process and coordinated with the CALFED Program)**

Long-term, sustainable, water supply reliability is best measured at the end user, capturing the balance of supply and demand considering all sources of supply and other water management strategies. DWR and other State agencies are encouraging the development of Integrated Regional Water Management Plans throughout California, as described in the 2005 California Water Plan Update. The water management goals and actions resulting from IRWM planning will be assessed on a statewide basis by DWR and other agencies through future California Water Plan Update processes. Specific indicators and targets will be developed in cooperation with local and regional agencies, in consideration of statewide and regional water management objectives. DWR and other agencies engaged in the California Water Plan Update process will also develop protocols to communicate information to and solicit input from the CALFED Program on a regular basis.

The CWPU process will host 8 regional workshops for the calendar year 2007. The workshops will capture California's hydrological, climatological and geographical diversity as they will be held in the following cities: Redding, Placerville, Oakland, Stockton, Bakersfield, Santa Barbara, Agua Caliente and San Diego. Sixteen additional regional workshops will be held throughout the state during calendar years 2008 and 2009.