BACKGROUND

Pursuant to section 3406(b)(2) of the Central Valley Project Improvement Act (CVPIA), the Secretary of the Interior must:

- dedicate and manage annually eight hundred thousand acre-feet of Central Valley Project yield for [1] the primary purpose of implementing the fish, wildlife, and habitat restoration purposes and measures authorized by this title; [2] to assist the State of California in its efforts to protect the waters of the San Francisco Bay/Sacramento-San Joaquin Delta Estuary; and [3] to help meet such obligations as may be legally imposed upon the Central Valley Project under State or Federal law following the date of enactment of this title, including but not limited to additional obligations under the Federal Endangered Species Act.


In SLDMWA, Judge Wanger stated that the “primary purpose” of CVPIA Section 3406(b)(2) “includes all those fish and wildlife restoration activities specifically described in section 3406(b),” including “water dedicated to accomplish the anadromous fish doubling goal set forth in section 3406(b)(1)” and “water needed to accomplish any of the other specifically enumerated programs listed in section 3406(b)(2).” SLDMWA, at 43 (underline in original). Judge Wanger also recognized that some WQCP and/or ESA actions “may serve the primary purpose of the CVPIA.” Id. at 47. Thus, “if an action taken under the WQCP and/or ESA predominantly contributes to one of the primary purpose programs (e.g., fish doubling), it must be counted toward the 800,000 AF limit.” Id. at 48. In so doing, Judge Wanger recognized that there may be some “primacy” to section 3406(b)(1) in relation to other stated purposes of section 3406(b), but he did not rule on that question. Id. at 45.

As explained in Interior’s May 2003 policy, “actions” in the context of (b)(2) accounting are computed increases in Central Valley Project (CVP) releases and decreases in CVP exports relative to hypothetical baseline operations. The hypothetical baseline operations reflect how the CVP would have been
operated experiencing WY 2015’s hydrology under the regulatory environment that existed at the time CVPIA was passed.

The CVP began Water Year (WY) 2015 on October 1, 2014 with low storage levels in Trinity, Shasta, Folsom, and New Melones reservoirs, ranging from 21% to 68% of the 15-year average. Subsequent precipitation in the winter and spring was well below average, and annual inflows to the CVP reservoirs ranged from 37% to 57% of the 15-year average. The Sacramento River basin and the San Joaquin River basin were both classified as Critically Dry, using D-1641 year type classifications, for WY 2015. Consistent with Section 3406(b)(2) of the CVPIA and Interior’s May 2003 (b)(2) Policy, the total (b)(2) water allocation was 600 thousand acre feet (TAF) during the 2015 water year. However, due to these historically dry hydrological conditions, Interior was only able to make approximately 200,000 AF of the 600,000 AF of CVPIA (b)(2) water available. The (b)(2) allocation was utilized for primary purpose fish actions, Endangered Species Act (ESA) requirements, and/or Water Quality Control Plan (WQCP) requirements.

CVP operations during the 2015 water year were subject to implementation of two biological opinions: (1) the United States Fish and Wildlife Service (FWS) Biological Opinion (BO) on the Coordinated Operations of the CVP and the State Water Project (SWP) for the protection of federally-listed delta smelt, issued in December 2008 (FWS BO), and (2) the National Marine Fisheries Service (NMFS) BO on the Long-term Operations of the CVP and SWP for the protection of listed salmonids and Green Sturgeon, issued in June 2009 (NMFS BO). Both biological opinions included a reasonable and prudent alternative (RPA) to avoid jeopardy to the subject species.

The purpose of this document is to explain Interior’s final accounting of fish actions covered by CVPIA Section 3406(b)(2) in water year 2015. The attached table, “Water Year 2015 Final CVP Accounting of (b)(2) Actions in TAF,” summarizes the fishery actions, including WQCP and ESA actions (relative to the hypothetical baseline operations) covered by CVPIA Section 3406(b)(2) in water year 2015. The table is based on the final daily accounting for water year 2015. This narrative, together with the attached table, constitutes Interior’s final accounting of fishery actions, including ESA and WQCP actions, covered by CVPIA Section 3406(b)(2) during water year 2015 and explains how Interior exercised its authority and discretion under CVPIA Section 3406(b)(2) during that same period.

**Water Year 2015 Fish Actions Covered By (b)(2) Water**

**October 2014:**

On the Stanislaus River, flows were augmented above the hypothetical baseline using approximately 19.1 TAF of (b)(2) water. Approximately 200-1200 cfs was maintained as specified in the flow schedule contained in the NMFS BO RPA III.1.3 for adult steelhead migration and to help meet AFRP flow objectives for fall-run Chinook migration and spawning. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).
November 2014:

On Clear Creek, flows were augmented above the hypothetical baseline using approximately 0.7 TAF of (b)(2) water. Approximately 175 cfs was maintained to help meet AFRP flow objectives for spring-run Chinook egg incubation and rearing, and improved instream conditions for spawning fall-run Chinook salmon. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

On the Sacramento River, flows were augmented above the hypothetical baseline using approximately 2.2 TAF of (b)(2) water. Approximately 4000 cfs was maintained to help meet AFRP flow objectives for fall-run and late-fall run Chinook salmon spawning and egg incubation and to benefit steelhead juveniles and pre-spawning adults. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

On the Stanislaus River, flows were augmented above the hypothetical baseline using approximately 9.1 TAF of (b)(2) water. Approximately 200-1200 cfs was maintained as specified in the flow schedule contained in the NMFS BO RPA III.1.3 for adult steelhead migration and spawning and to help meet AFRP flow objectives for fall-run Chinook migration and spawning. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

December 2014:

On Clear Creek, flows were augmented above the hypothetical baseline using approximately 4.6 TAF of (b)(2) water. Approximately 175 cfs was maintained to help meet AFRP flow objectives to benefit spring-run Chinook fry, steelhead juveniles and pre-spawning adults, and instream conditions for fall-run Chinook salmon spawning and egg incubation. These releases predominantly contributed to the primary purpose of Section 3406 (b)(2).

On the Sacramento River, flows were ramped down to minimum level more slowly than in the hypothetical baseline using approximately 3.8 TAF of (b)(2) water to help meet AFRP flow objectives for fall-run and late-fall run Chinook salmon spawning and egg incubation and to benefit steelhead juveniles and pre-spawning adults. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

On the American River, flows were augmented above the hypothetical baseline using approximately 4.6 TAF of (b)(2) water. Approximately 900-1000 cfs was maintained to help meet AFRP flow objectives for fall-run Chinook salmon spawning and egg incubation and to benefit steelhead juveniles and pre-spawning adults. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

In the Delta, from December 9-31, CVP exports were curtailed to an average of approximately 2685 cfs to assist in moderating flow and turbidity from both the Sacramento and San Joaquin Rivers into the central and south Delta to reduce the vulnerability of pre-spawning adult delta smelt and juvenile salmonid entrainment to the export facilities. During that period, CVP exports were reduced below
hypothesised baseline pumping levels by approximately 66.9 TAF. In the fourth year of a prolonged drought, overall Delta export strategies were discussed up to twice weekly by the State Water Resources Control Board’s (SWRCB) Real-time Drought Operations Management Team (RTDOMT), and specific daily Old and Middle River (OMR) flow targets were set by the five agency Directors (USFWS, USBR, DWR, NMFS, and CDFW). While neither the FWS nor the NMFS issued RPA determinations requiring these export reductions, the Projects pro-actively reduced export levels per the reasons specified above. As such, these export reductions contributed to meeting ESA goals and were accounted for as b2 actions.

**January 2015:**

On Clear Creek, flows were augmented above the hypothetical baseline using approximately 3.5 TAF of (b)(2) water. Approximately 180 cfs was maintained to help meet AFRP flow objectives to benefit spring-run Chinook juvenile rearing, steelhead juveniles and spawning adults, and instream conditions for fall-run Chinook egg incubation and juvenile rearing. These releases predominantly contributed to the primary purpose of Section 3406 (b)(2).

On the American River, flows were augmented above the hypothetical baseline using approximately 2.8 TAF of (b)(2) water. Approximately 900-1000 cfs was maintained to help meet AFRP flow objectives for fall-run Chinook salmon egg incubation and juvenile rearing and to benefit steelhead juveniles and spawning adults. Theses releases predominantly contributed to the primary purpose of Section 3406(b)(2).

On the Stanislaus River, flows were augmented above the hypothetical baseline using approximately 0.5 TAF of (b)(2) water. Approximately 600 cfs was released as specified in the flow schedule contained in the NMFS BO RPA III.1.3 to simulate natural variability in the winter hydrograph and to enhance access to varied rearing habitats for CV steelhead. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

In the Delta, from January 1-5, CVP exports were curtailed to an average of approximately 2730 cfs to assist in moderating flow and turbidity from both the Sacramento and San Joaquin Rivers into the central and south Delta to reduce the vulnerability of pre-spawning adult delta smelt and juvenile salmonid entrainment to the export facilities. During that period, CVP exports were reduced below hypothetical baseline pumping levels by approximately 14.6 TAF. As in December, overall Delta export strategies were discussed up to twice weekly by the SWRCB’s RTDOMT, and specific daily OMR flow targets were set by the five agency Directors. While neither the FWS nor the NMFS issued RPA determinations requiring these export reductions, the Projects pro-actively reduced export levels per the reasons specified above. As such, these export reductions contributed to meeting ESA goals and were accounted for as b2 actions.

**February 2015:**

On Clear Creek, flows were augmented above the hypothetical baseline using approximately 5.5 TAF of
(b)(2) water. Approximately 180 cfs was maintained to help meet AFRP flow objectives for fall-run Chinook salmon incubation, emergence, and rearing and steelhead spawning, incubation, and emergence. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

On the American River, flows were augmented above the hypothetical baseline using approximately 2.5 TAF of (b)(2) water. Approximately 900-1000 cfs was maintained to help meet AFRP flow objectives for fall-run Chinook salmon egg incubation and juvenile rearing and to benefit steelhead juveniles and spawning adults. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

In the Delta, from February 19-28, CVP exports were curtailed to an average of approximately 1,165 cfs to assist in managing OMR flows per the February 9 OMR drought flexibility request and February 10 FWS and NMFS response letters. During that period, CVP exports were reduced below hypothetical baseline pumping levels by approximately 56.8 TAF to reduce the vulnerability of adult and larval delta smelt and juvenile salmonids within the lower Sacramento and San Joaquin rivers to entrainment into the channels of the South Delta and at the pumps. As in December and January, overall Delta export strategies were discussed up to twice weekly by the SWRCB’s RTDOMT, and specific daily OMR flow targets were set by the five agency Directors. While neither the FWS nor the NMFS issued RPA determinations requiring these export reductions, the Projects pro-actively reduced export levels per the reasons specified above. As such, these export reductions contributed to meeting ESA goals and were accounted for as b2 actions.

March 2015:

On Clear Creek, flows were augmented above the hypothetical baseline using approximately 3.7 TAF of (b)(2) water. Approximately 180 cfs was maintained to help meet AFRP flow objectives for fall-run Chinook salmon rearing and steelhead incubation and emergence. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

On the Stanislaus River, flows were augmented above the hypothetical baseline using approximately 16.2 TAF of (b)(2) water. Approximately 200-1500 cfs was maintained as specified in the flow schedule contained in the NMFS BO RPA III.1.3 for steelhead juvenile outmigration and to help meet AFRP flow objectives for fall-run Chinook rearing and outmigration. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

In the Delta, from March 1-2, CVP exports were curtailed to an average of approximately 1,202 cfs to assist in managing OMR flows per the February 9 OMR drought flexibility request and February 10 FWS and NMFS response letters. During that period, CVP exports were reduced below hypothetical baseline pumping levels by approximately 6.5 TAF to reduce the vulnerability of adult and larval delta smelt and juvenile salmonids within the lower Sacramento and San Joaquin rivers to entrainment into the channels of the South Delta and at the pumps. As in December-February, overall Delta export strategies were discussed up to twice weekly by the SWRCB’s RTDOMT, and specific daily OMR flow targets were set by the five agency Directors. While neither the FWS nor the NMFS issued RPA determinations requiring
these export reductions, the Projects pro-actively reduced export levels per the reasons specified above. As such, these export reductions contributed to meeting ESA goals and were accounted for as b2 actions.

**April 2015:**

On the Stanislaus River, flows were augmented above the hypothetical baseline using approximately 0.7 TAF of (b)(2) water. On April 1-2, Goodwin releases were ramping down from the 1500 cfs peak in March to the 200 cfs base flow as specified in the flow schedule contained in the NMFS BO RPA III.1.3 for steelhead juvenile outmigration and to help meet AFRP flow objectives for fall-run Chinook rearing and outmigration. These releases predominantly contributed to the primary purpose of Section 3406(b)(2).

**May – September 2015:**

No (b)(2) actions