

State of California
State Water Resources Control Board
DIVISION OF WATER RIGHTS
P.O. Box 2000, Sacramento, CA 95812-2000
Info: (916) 341-5300, FAX: (916) 341-5400, Web: <http://www.waterrights.ca.gov>

ENVIRONMENTAL INFORMATION
FOR PETITIONS
(THIS IS NOT A CEQA DOCUMENT)

APPLICATION NO. 18087 PERMIT NO. 13858 LICENSE NO. -

1. **DESCRIPTION OF PROPOSED CHANGES TO EFFECTUATE**
TEMPORARY WATER TRANSFER

Placer County Water Agency ("PCWA") proposes to transfer a total of 20,000 acre-feet ("AF") of water currently stored in its Middle Fork Project ("MFP") reservoirs on the Rubicon and American Rivers to the San Diego County Water Authority ("SDCWA") for domestic, municipal and industrial use within the service area of SDCWA. To accomplish the transfer, the following temporary changes in the place of use and points of redirection under PCWA's MFP water right permit are needed:

- 1) Allow temporary storage of Transfer Water in Folsom Reservoir.
- 2) Allow re-diversion of Transfer Water at the State Water Project's Clifton Court Forebay and Harvey O. Banks Pumping Plant.
- 3) Allow use of Transfer Water within the SDCWA service area.

Under the proposed transfer, PCWA could release 20,000 AF of Transfer Water from its Middle Fork Project reservoirs into the Middle Fork and North Fork American Rivers from May 1, 2009 through December 31, 2009, however, the main transfer period would likely be between June and September 2009. The released water would flow into Folsom Reservoir where it may be redirected and stored until the Transfer Water can be conveyed through, and diverted from, the Sacramento-San Joaquin Delta ("Delta"). SDCWA would withdraw the Transfer Water from Folsom Reservoir when it can be redirected at the State Water Project's ("SWP") Clifton Court Forebay and Banks Pumping Plant.

In order to facilitate this transfer, SDCWA may execute a Warren Act contract or other wheeling/storage agreement with the U.S. Bureau of Reclamation ("Reclamation"). Additionally, the California Department of Water Resources ("DWR") and Reclamation will coordinate SWP and Central Valley Project ("CVP") operations to convey the Transfer Water through the Delta. After diversion from the Delta, the Transfer Water

2009 MAY -6 PM 2:32
DIVISION OF WATER RIGHTS
SACRAMENTO, CALIFORNIA

will either be put to immediate use in the SDCWA service area, or stored in San Luis Reservoir or other SWP facilities for later use within the SDCWA service area.

PCWA proposes to release up to 20,000 acre-feet of water stored in its Middle Fork Project for transfer to the SDCWA ("Transfer Water"). The Transfer Water will be released from PCWA's Ralston Afterbay Reservoir on the Middle Fork of the American River to points of rediversion at the State Water Project's Clifton Court Forebay and Harvey O. Banks Pumping Plant. Conveyance of the Transfer Water will be scheduled in cooperation with DWR and Reclamation such that it will use available surplus release, pumping and transmission capacity and will not disrupt normal CVP or SWP operations.

PCWA has determined that it has at least 20,000 AF of surplus water stored in the Middle Fork Project. PCWA reached this conclusion by reviewing projected MFP inflow, storage, and operations data. Specifically, PCWA had approximately 222,200 AF of water in storage in its Middle Fork Project reservoirs as of 4/21/2009 (French Meadows and Hell Hole Reservoirs) and the projected runoff from 4/21/09 through the end of June is another 120,000 AF. This water is stored pursuant to a Federal Energy Regulatory Commission license (Project No. 2079) and water right permits nos. 13855, 13856, 13857, and 13858. The estimated total MFP water supply in 2009 is therefore about 342,200 AF. PCWA anticipates supplying the following quantities of water to its MFP customers in 2009: City of Roseville – 15,000 AF; San Juan Water District – 13,000 AF; and, Sacramento Suburban Water District – 13,000 AF. In addition, PCWA anticipates diverting 10,000 AF for its own retail customers in 2009. Deducting from the total supply the estimated 51,000 AF of consumptive demands within PCWA's MFP service area, and FERC's 50,000 AF required minimum combined reservoir carryover, leaves 241,200 AF available to be used for power generation or reserved as additional carryover storage for 2010, which is well above the proposed transfer amount of 20,000 AF.

This proposed transfer would require temporarily adding Reclamation's Folsom Lake facility and the SWP's Clifton Court Forebay and Banks Pumping Plant as new points of rediversion under Permits 18085 and 18087. The service area of SDCWA would be temporarily added to the place of use of Permits 18085 and 18087.

In order to refill Middle Fork Project reservoirs without injury to downstream vested rights following the transfer, PCWA will enter into a refill agreement with Reclamation, similar to refill agreements that PCWA and Reclamation have entered into in past years to facilitate other similar PCWA water transfers.

Only existing facilities will be utilized to accomplish this transfer. The project does not involve construction or modification of any facilities. Land uses within the PCWA and SDCWA service areas will not change as a result of this transfer. This transfer is critically needed to provide water supplies to SDCWA, which has experienced several years of below average rainfall and reduced water supply allocations due to a combination of dry hydrology and increased regulatory restrictions on SWP pumping. Because the proposed transfer is temporary, and because its purpose is drought relief to make up for these lost supplies, the proposed transfer will not result in additional land use changes.

(For more details see Petition)

2. COUNTY PERMITS

a. Contact your county planning or public works department and provide the following information:

Person contacted: N/A **Date of contact:** _____

Department: _____ **Telephone:** _____

County Zoning Designation:

Are any county permits required for your project?

No.

b. Have you obtained any of the required permits described above?

N/A

3. STATE/FEDERAL PERMITS AND REQUIREMENTS

a. Check any additional state or federal permits required for your project:

PCWA requires no additional state or federal permits. However, PCWA will enter into a reservoir refill agreement with Reclamation. Also, SDCWA may enter into a Warren Act contract or other wheeling/storage arrangement with Reclamation, as well as coordinate with DWR, Reclamation, and the Metropolitan Water District of Southern California ("Metropolitan"). This water transfer will be accomplished within the parameters of all applicable state and federal laws, regulations, and permits.

b. For each agency from which a permit is required, provide the following information:

N/A

c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed or bank of any stream or lake?

No.

d. Have you contacted the California Department of Fish and Game concerning your project?

Yes. A copy of this petition was sent to the Department of Fish and Game ("DFG") North Central Regional Manager Sandra Morey at 1701 Nimbus Road, Rancho Cordova,

CA 95670 Phone: (916) 358-2899, FAX: (916) 358-2899. PCWA has not received DFG's opinion regarding the project, but will provide this information to the appropriate State Water Resources Control Board ("SWRCB") staff when available. PCWA expects DFG to indicate that the transfer will not unreasonably affect fish or wildlife resources because very similar transfers have been done in the past with no adverse impacts identified by DFG. In fact, in the past DFG has advocated such transfers as part of the transfer of water to the CAL-FED Environmental Water Account ("EWA").

4. ENVIRONMENTAL DOCUMENTS

a. Has any California public agency prepared a CEQA environmental document for your project?

No. CEQA is not required for this proposed temporary water transfer because temporary water transfers under Water Code § 1725 are statutorily exempt from CEQA. (Water Code § 1729; CEQA Guidelines § 15282(u). However, see response to 4.c below regarding relevant environmental documents.

b. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency.

N/A

c. If NO, check the appropriate box and explain below, if necessary:

No environmental document pursuant to CEQA is required for the proposed water transfer that is the subject of this petition. Pursuant to Water Code § 1729, "a proposed temporary change under this article shall be exempt from the requirements of Division 13 (commencing with Section 21000) of the Public Resources Code." (See also CEQA Guidelines § 15282(u).)

A relevant environmental document prepared for a similar project is Reclamation's Finding of No Significant Impact ("FONSI") for the 2009 Drought Water Bank, dated April 14, 2009, and attached hereto as Attachment 1.

While this document analyzed a full scale Drought Water Bank project, which would be much larger and different scope and application, some of the analyses and conclusions generated pursuant to NEPA are applicable to this water transfer. Of particular relevance is the fact that a water transfer of 20,000 AF from PCWA's MFP was considered in the cumulative effects analysis.

5. WASTE/WASTE WATER

a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation?

No. This transfer project will not generate waste or wastewater containing sewage or chemicals of any kind. As explained in Section 8 of this Environmental Information Form, the amount of water proposed for transfer will only slightly increase baseline water flows in the American and Sacramento Rivers and in the Delta. This negligible increase will not cause erosion, turbidity, or sedimentation.

b. Will a waste discharge permit be required for your project?

No.

c. What method of treatment and disposal will be used?

N/A

6. ARCHEOLOGY

a. Have any archeological reports been prepared on this project?

No. The proposed transfer would not alter the existing physical conditions within the American and Sacramento Rivers, or the Delta, in any way that could impact or affect archeological resources within those watersheds.

b. Will you be preparing an archeological report to satisfy another public agency?

No. See response to Question 6a.

c. Do you know of any archeological or historic sites located within the general project area?

No. The project area is very large and there may be archeological or historic sites along the riverbanks or underwater in the American and Sacramento Rivers and in the Delta, as well as at Folsom Lake. However, as explained in response to Question 6a and elsewhere in this report and the associated application materials, this transfer project will cause no effects to any such resources within the project area.

7. ENVIRONMENTAL SETTING

Attach three complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the below-listed three locations. For time extension petitions, the photographs should document only those areas of the project that will be impacted during the requested extension period.

a) Along the stream channel immediately downstream from the proposed point(s) of diversion.

A map depicting PCWA's Middle Fork Project in relation to Folsom Reservoir is attached as Attachment 2 hereto. Because of the large geographic area within the scope

of PCWA's Middle Fork Project, and the distance between PCWA's reservoirs and Folsom Lake and the SWP's Delta pumping facilities, it is not practical to attach photographs. The general vegetation throughout the Middle Fork Project is described in Section 8 below. No vegetation within the PCWA service area from the MFP reservoirs to Folsom Lake and the Sacramento-San Joaquin Delta will be adversely affected by the slight increase in flows that may occur as a result of this transfer. In fact, these additional releases may benefit vegetation by providing slightly higher flows and correspondingly moister soils during this drier than average year.

The proposed points of rediversion are Folsom Lake and the SWP's Clifton Court Forebay and Banks Pumping Plant in the southwestern edge of the Sacramento-San Joaquin Delta. There is no stream channel immediately downstream of the SWP point of diversion because it is the beginning of the California Aqueduct, a man made conveyance facility. A map of the location of the SWP pumping facilities is attached as Attachment 3 hereto.

b) Along the stream channel immediately upstream from the proposed point(s) of diversion.

The stream channels immediately upstream from the SWP's Delta pumping facilities comprise various sloughs and channels in the Sacramento-San Joaquin Delta ("Delta"). (See Attachment 4.) Because of the large geographic area within the Delta, it is not practical to attach photographs. The Delta is an estuarine ecosystem of sloughs and channels that has been heavily modified by agriculture and other human uses for approximately 150 years. During the past 50 years in particular, the natural environment of the Delta has been significantly altered by the construction and maintenance of a vast network of flood control levees. Additionally, dredging and point and non-point water discharges to the Delta have also impacted the environmental setting of the Delta. Added to these physical effects are the serious adverse biological effects of numerous aquatic invasive species, including fish, invertebrates, and plants. No vegetation within the Sacramento-San Joaquin Delta should be adversely affected by the slight increase in flows that may occur as a result of this transfer.

c) At the place(s) where the water is to be used.

A map depicting the SDCWA service area is attached hereto as Attachment 5. Because of the large geographic area encompassed by this service area, it is not practical to attach photographs. Similarly, this area contains various diverse assemblages of native and non-native vegetation and associated habitat types. This water transfer will not affect these environmental resources. By providing additional water supplies during a period of water shortage, this transfer may provide water that supports vegetation, particularly man made habitats such as outdoor landscaping and urban parkways within the SDCWA service area.

8. ADDITIONAL CONSIDERATIONS

PCWA recognizes that the SWRCB serves an important public duty and must base its approval of this petition on a variety of factors including a determination that it is in the public's interest and that it will not injure other legal users of water or unreasonably affect fish wildlife and other instream beneficial uses. (Water Code § 1725.) PCWA provides the following environmental information to further assist and support the SWRCB in its determination that approval of the petition will not unreasonably affect fish, wildlife and other instream beneficial uses. Some of the conclusions and discussion in this section are supported by DWR's and Reclamation's analyses contained in Attachment 1.

The following table describes the major vegetation communities surrounding PCWA's MFP reservoirs and the Rubicon and American River sections that will carry released water: (See next page)

Vegetation Communities Commonly Occurring Within PCWA's MFP Project Area:

| | |
|------------------------------------|---|
| <u>Tree Dominated Communities</u> | <u>Shrub Dominated Communities</u> |
| Subalpine Conifer | Alpine Dwarf-Shrub |
| Red Fir | Low Sage |
| Lodgepole Pine | Bitterbrush ✓ |
| Mixed Conifer ✓ | Sagebrush ✓ |
| Sierran Mixed Conifer | Montane Chaparral |
| White Fir | Mixed Chaparral ✓ |
| Klamath Mixed Conifer | Chamise-Redshank Chaparral |
| Douglas-Fir ✓ | Coastal Scrub |
| Jeffrey Pine ✓ | Desert Succulent Shrub |
| Ponderosa Pine ✓ | Desert Wash |
| Eastside Pine | Desert Scrub |
| Redwood | Alkali Desert Scrub |
| Pinyon-Juniper | |
| Juniper | <u>Herbaceous Dominated Communities</u> |
| Aspen | Annual Grassland ✓ |
| Closed-Cone Pine-Cypress | Perennial Grassland |
| Montane Hardwood-Conifer | Wet Meadow |
| Montane Hardwood ✓ | Fresh Emergent Wetland ✓ |
| Valley Foothill Hardwood | Saline Emergent Wetland |
| Blue Oak Woodland ✓ | Pasture |
| Valley Oak Woodland ✓ | |
| Coastal Oak Woodland | <u>Aquatic Communities</u> |
| Valley Foothill Hardwood-Conifer ✓ | Riverine ✓ |
| Blue Oak-Digger Pine | Lacustrine ✓ |
| Eucalyptus | Estuarine |
| Montane Riparian | Marine |
| Valley Foothill Riparian | |
| Desert Riparian | <u>Developed Communities</u> |
| Palm Oasis | Cropland |
| Joshua Tree | Orchard-Vineyard |
| | Urban ✓ |

(Literature source: Mayer, K.E., and W.F. Laudenslayer, Jr., (eds). 1988. A Guide to Wildlife Habitats of California. California Department of Forestry and Fire Protection, Sacramento. 166 pp. (Note: You may view a copy of this document at our public counter at the address given at the top of this form or you may purchase a copy by calling the California Department of Fish and Game, Wildlife Habitat Relationships (WHR) Program at (916) 653-7203.)

Vegetation

No vegetation will be affected by the release of the additional water for this transfer. Therefore, wildlife habitat will not be affected by the proposed additional releases of Transfer Water from PCWA's reservoirs. Water use in the proposed new place of use

would support the same land-uses that currently exist within the SDCWA service area. This transfer will not cause additional acreage to be developed or put to use, and it will not cause a change or intensification in existing land uses. The transferred water will simply provide much needed water supplies this summer and fall that have been lost due to the synergistic effect of three consecutive years of dry hydrology and regulatory pumping restrictions on SWP and CVP operations.

Water Quality

The proposed transfer may improve water quality by slightly increasing flows and adding high quality snowmelt to existing water bodies. There is no evidence that the proposed transfer will negatively affect water quality in any unreasonable, significant, or measurable way.

When the Transfer Water is diverted at the SWP south Delta pumping facilities, all existing state and federal regulations will be complied with, including Decision 1641 and any related SWRCB orders, State and Federal endangered species acts and all biological opinions and take permits issued by the U.S. Fish and Wildlife Service and National Marine Fisheries Service. This compliance will further prevent impacts to water quality.

Wildlife and Fish Resources

Reclamation has agreed to implement the reasonable and prudent alternatives that will regulate CVP pumping in 2009, contained in the U.S. Fish and Wildlife Service's 2008 Biological Opinion on the effects of combined SWP and CVP operations on the Delta smelt. (Attachment 6.) DWR's SWP pumping must also comply with these reasonable and prudent alternatives. Additionally, there is close monitoring and coordination between DWR, Reclamation, USFWS, and the National Marine Fisheries Service ("NMFS"), and DFG regarding the effects of combined project operations on the host of species inhabiting the Delta and its tributaries. Similar coordination occurs on the lower American River. This allows the relevant agencies to quickly deal with circumstances as they arise, and to avoid significant impacts to species of special concern (i.e., listed and protected under state or federal laws).

Given the small amount of water involved in this transfer relative to the amount of water in the system and pumped by the projects, it is not expected that any fish species will be adversely affected by the proposed additional releases from PCWA's reservoirs. Almost identical change petitions and transfers have been granted by the SWRCB in the past to support acquisition of water assets by the EWA. For instance, in 2001 the SWRCB issued Order WR 2001-18-DWR, which approved the transfer of 20,000 AF from PCWA's Middle Fork Project reservoirs to the California Department of Water Resources to support the EWA. A copy of this order is attached as Attachment 7. Notably, that order found that because "the water proposed for transfer would temporarily benefit fishery resources by providing increased flows and decreased water temperatures in a critically dry year there is no apparent reason why increased flows during the summer would harm fishery resources." Similar circumstances exist this year,

and if the proposed transfer causes any effect on fish, the effect should be the same beneficial effect noted by the SWRCB during the 2001 transfer.

The amount of change in streamflow, water quality, timing of diversion or use, return flows, and effect on legal users of water will be minimal and will cause no adverse economic, physical, or environmental effects. PCWA's release of an additional 20,000 AF from the MFP is a small increment of the water that will be released from the MFP into Folsom Lake this year. Approximately 190,000 AF will be released from the MFP during the transfer period; therefore, the release of Transfer Water will increase the normal release by about 10%. After release, this additional 20,000 AF will flow first to Folsom Lake and then to points of redirection in the south Delta at the SWP pumping facilities. Once leaving Folsom Lake, the 20,000 AF of Transfer Water will comprise an increasingly miniscule increment of water when compared to the average flows in the lower American and Sacramento Rivers, and the Delta. Data from Reclamation's Central Valley Operations Office showing the average Delta outflow and CVP and SWP pumping during the May through October period support this conclusion.

Because Reclamation cannot finalize its official reports and flow calculations until months after the fact, data from May and June 2008 and July through October 2007 are used to illustrate likely baseline conditions to evaluate the potential effect of the proposed transfer. May through October is the relevant time period because water flows during this period are the most susceptible to operational changes as a result of water transfers. This is largely due to the fact that the normal winter storms that alter and often dominate the hydrology of the Delta and its tributaries do not usually occur until November and later; therefore, the Delta and its tributaries are largely controlled by water project operations before these storms occur.

The May – October data provided in this application are the most recent data for the relevant months provided by Reclamation's Central Valley Operations Office in its monthly reports (available at http://www.usbr.gov/mp/cvo/pub_rpts.html). Furthermore, these data are considered representative of likely conditions in 2009 because both 2007 and 2008 were similarly dry or critically dry years, much like 2009. Also, 2007 and 2008 were years in which the SWP and CVP were subject to restrictions on allowable reverse flows in Old and Middle Rivers, which restricted SWP and CVP Delta pumping in order to prevent "take" of the Delta smelt under the U.S. Endangered Species Act. Similar restrictions on reverse flows and related pumping constraints, imposed by the U.S. Fish and Wildlife Service, will likely apply in 2009 as well. Thus, these data provide the Board with information to review the proposed transfer in light of the potential hydrologic conditions likely to occur during the proposed transfer as required by Water Code § 1727(b)(1).

The following table, derived from data in Attachment 8, presents the average Delta outflow and pumping rates in cubic feet per second ("cfs") during the period May through October, which constitutes the primary portion of the proposed transfer period:

**2007-2008 Average Daily Delta Outflow and Combined SWP/CVP Pumping
in Acre-Feet per Day.***

| | May | June | July | August | September | October |
|---------------------------------------|--------|--------|--------|--------|-----------|---------|
| Lower American River (AF/day) | 2,592 | 6,795 | 7,464 | 5,631 | 3,431 | 2,636 |
| Sacramento River at Freeport (AF/day) | 17,077 | 21,996 | 37,753 | 34,016 | 31,023 | 21,253 |
| Delta Inflow (AF/day) | 25,614 | 26,976 | 41,983 | 38,261 | 34,793 | 25,479 |
| Combined SWP/CVP Pumping (AF/day) | 3,945 | 4,344 | 22,575 | 22,298 | 19,507 | 14,953 |
| Delta Outflow (AF/day) | 17,093 | 15,300 | 11,466 | 8,051 | 10,726 | 8,011 |

* Data from Reclamation operations reports (See Attachment 8 and text for explanation).

The 20,000 AF of Transfer Water will not be transferred all at once, but will be released from the MFP and conveyed across the Delta to the SWP pumping facilities over a period of time during the remainder of 2009, all within existing pumping and other regulatory constraints. As indicated from the table above, in comparison to the amount proposed for transfer, much larger volumes of water are expected to move through the American and Sacramento Rivers and the Delta. Thus, the transfer of an additional 20,000 AF would increase flows by only a very small amount of the total in any of the water bodies listed and would also cause only a very small increase to SWP Delta pumping. Thus, while the exact operations required to implement the proposed transfer cannot be stated with precision at this time, it is clear that the transfer will only negligibly affect streamflows, water quality, timing of diversion or use, return flows, and effect on legal users of water.

The hydrologic systems and project operations affected by this transfer experience wide fluctuations in river stages and pumping operations due to natural events and because of other water project operations such as compliance with D-1641. The data presented represent the low flow and low pumping circumstances that are likely to occur in 2009, but the fact that the river flows and pumping rates are greater in average and wetter years

also supports the conclusion that slightly increased flows, with a concomitant increase in SWP pumping rates, will not significantly or unreasonably affect streamflow, water quality, timing of diversion or use, return flows, or other legal users of water.

Because of the minimal changes in existing conditions, other legal users of water will not be adversely affected by this transfer project. The only effects of this transfer on other legal users of water will be a very slight increase in river flows from PCWA's MFP to the proposed points of redirection at the SWP delta pumping facilities. Furthermore, when the Transfer Water is diverted by the SWP south Delta pumping facilities, all existing state and federal regulations will be complied with, including Decision 1641, State and Federal endangered species acts, and all biological opinions and take permits.

The transfer period at issue here occurs during a time when delta smelt and longfin smelt are not at high risk of entrainment at the SWP pumps because during the July to September period when a majority of the Transfer Water is likely to be conveyed through the Delta, the majority of the populations of both species are further downstream at the confluence of the Sacramento and San Joaquin Rivers or in the Suisun Marsh or Napa River areas, all of which are beyond the zone of influence of the SWP pumps. This means that slightly increased SWP pumping will not have a meaningful effect on populations of these species.

Additionally, salmonid entrainment by the SWP is generally low or absent during the summer and early fall months during which time the majority of Transfer Water will be conveyed through the Delta and diverted for export to SDCWA. This is partially due to the fact that outmigrating smolts have already left the freshwater system by this time, and the projects do not entrain a high number of adult salmonids because they are strong swimmers able to avoid entrainment influences of SWP pumping. This fact, coupled with the fact that any SWP pumping will only be slightly increased and well within the range of current and past pumping rates and all regulatory requirements, leads to a conclusion that salmonids will not be unreasonably or significantly affected by the proposed transfer.

Other wildlife and plant species in the project area should not be affected by the slight changes in streamflows caused by this transfer.

CERTIFICATION

I hereby certify that the statements I have furnished above and in the attached exhibits are complete to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge.

Date: May 6, 2009

KRONICK, MOSKOVITZ, TIEDEMANN &
GIRARD
Attorneys for Placer County Water Agency

By: _____


Hanspeter Walter

FINDING OF NO SIGNIFICANT IMPACT

2009 DROUGHT WATER BANK

United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region
Sacramento, California

Recommended: Rebecca Victorine 4/14/09
Natural Resource Specialist Date

Concur: [Signature] 4/14/09
Program Manager Date

Concur: [Signature] 4/14/09
Program Management Branch Chief Date

Concur: [Signature] 4/14/09
Regional Environmental Affairs Officer Date

Approved: [Signature] 4/14/09
Regional Resources Manager Date

FONSI Number: 09-03-MP

2009 DROUGHT WATER BANK

Bureau of Reclamation
Mid-Pacific Region
Sacramento, California

BACKGROUND

Since 2007 and 2008 were critically dry years and reservoir storage levels are expected to be low in 2009, it is likely that some California water providers will need to supplement local and imported supplies with water transfers from willing sellers. Based on the initial water supply allocations from the CVP and SWP, the nature of the supply shortage will likely severely limit supply for existing agricultural use and limit supply for municipal needs including minimum health and safety requirements. To help facilitate the transfer of water throughout the State, the Department of Water Resources (DWR) proposes to initiate a 2009 Drought Water Bank (DWB). To implement the DWB, DWR will purchase water from willing sellers upstream of the Sacramento-San Joaquin Delta (Delta). This water will be conveyed, using State Water Project (SWP) or Central Valley Project (CVP) facilities, to water users that are at risk of experiencing water shortages in 2009 due to drought conditions and that require supplemental water supplies to meet anticipated demands. The Governor of California has requested emergency drought assistance under the Reclamation States Emergency Drought Relief Act of 1991 (Act), Public Law 102-250, as amended. The Commissioner of the Bureau of Reclamation (Reclamation) has determined that emergency drought assistance is merited. The Mid Pacific Region of Reclamation will participate in the DWB pursuant to Section 101 of the Act, to ensure that operations of the two projects can be coordinated effectively to maximize the ability of the DWB to move water from willing sellers to buyers to address critical water needs. Reclamation will review and approve, as appropriate, proposed transfers by CVP contractors in accordance with the Interim Guidelines for the Implementation of Water Transfers under the Central Valley Project Improvement Act (CVPIA).

Since the transfers Reclamation proposes to approve for the DWB represent only a portion of overall transfers supporting the DWB, the DWB is not dependent upon Reclamation's approval, and DWR would likely proceed with DWB transfers that do not require Reclamation's approval, the Proposed Action only includes those actions over which Reclamation has approval authority. The remainder of the transfers that could occur under the DWB are considered in the context of cumulative impacts.

Twenty CVP contractors have expressed interest in submitting proposals for transfer of water to DWR for the 2009 DWB. Subject to approval in accordance with the Interim Guidelines for the Implementation of Water Transfers under the CVPIA, as applicable, Reclamation proposes to approve these transfers. The proposed action would make water available to the DWB from willing sellers upstream of the Delta during the 2009 water year only. A total of up to 199,885 af of CVP water would be made available for transfer through a combination of crop idling, crop substitution, groundwater substitution, and

reservoir reoperation.

An environmental assessment (EA) was prepared to evaluate the potential environmental impacts associated with the proposed action and the no action alternative. The EA is attached for reference. The estimates analyzed in the EA reflect the potential upper limit of available water. However, actual transfers would depend on hydrology, DWB funding (interested buyers), and the amounts that sellers would ultimately have available for transfer in 2009, as well as compliance with CVPIA transfer requirements, as applicable.

Also, not all of the potential buyers analyzed in the EA may end up actually purchasing water from the DWB in 2009. It is anticipated that water made available to them from the DWB would be prioritized based on criteria DWR developed as follows: existing health and safety domestic needs, municipal supply subject to water shortage contingency plan measures, and agricultural irrigation for existing crops and livestock subject to water shortage contingency plan measures. Buyers' participation in the DWB will be subject to the terms identified in on DWR's DWB website (<http://www.water.ca.gov/drought/>), including meeting a needs assessment and having a plan with the goal of 20% reduction in water demand based on conservation efforts.

FINDINGS

In accordance with the National Environmental Policy Act of 1969, as amended, the Mid-Pacific Regional Office of the U.S. Bureau of Reclamation (Reclamation) has found that the approval of proposed transfers of CVP water in support of the 2009 DWB is not a major Federal action that would significantly affect the human environment. Therefore, an environmental impact statement is not required.

This finding of no significant impact is based on the following:

Surface Water Resources: Acquisition of water via crop idling would reduce water supply for Sacramento River users not participating in the DWB who rely on return flows from fields that, under the proposed action, would be idled. In order to minimize this impact, sellers would be required to maintain water levels in drainage systems that do not reduce supplies to downstream users.

Groundwater substitution could decrease water levels in neighboring surface water channels. Well reviews and monitoring programs will be implemented in accordance with all applicable local, regional and State regulations and basin management objectives to minimize this potential impact.

Acquisition of water via groundwater substitution or crop idling would change the rate and timing of flows in the Sacramento and Lower American Rivers. However, flow and temperature requirements, including Water Right Orders 90-5 and 91-1 temperature control planning requirements for the Sacramento River, will continue to be met under the proposed action, which would minimize the magnitude of such changes.

Transfer of stored reservoir water from Reclamation via Orland Unit Water Users Association could reduce carryover storage compared to the no action alternative. To avoid potential adverse effects, DWR and Reclamation will not approve reservoir reoperation transfers that would draw down reservoirs beyond historic operational levels. Additionally, the State Water Resources Control Board will review the proposed reservoir release to ensure that potential effects to supply or to other legal users will be minimized.

Water transfers will be conveyed through existing facilities. Water transfers involving conveyance through the Delta will be implemented within the operational parameters of the Biological Opinions on the Continued Long-term Operations of the CVP/SWP (Opinions) and any other regulatory restrictions in place at the time of implementation of the water transfers. Current Operational parameters applicable to conveyance of transfer water for the DWB include: a maximum amount of 600,000 acre feet per year is allowed for all types of water transfers; and transfer water will be conveyed during July through September only. Contract provisions of the SWP and CVP will be honored in determining access to Delta pumping capability if this capacity becomes constrained.

Under the Proposed Action, additional water supply would benefit water users who meet the previously mentioned critical needs criteria for existing uses only. Given these factors, the effects of the Proposed Action on surface water resources will not be significant.

Groundwater Resources: Crop idling and groundwater substitution transfers under the proposed action could affect groundwater resources, including changes in groundwater levels and related secondary effects. Also, groundwater pumping within the vicinity of a surface water body could change existing interactions between surface water and groundwater, potentially adversely affecting riparian habitat and downstream users. Excessive groundwater extraction from confined and unconfined aquifers could result in a lowering of groundwater levels and, in confined aquifers, a decline in water pressure, increasing the potential for subsidence. Changes in groundwater levels or in the prevailing groundwater flow regime could cause a change in groundwater quality through a number of mechanisms.

Well reviews and monitoring and mitigation plans will be implemented under the proposed action to minimize potential effects to groundwater resources. These reviews and plans will be required from sellers for review by DWR and Reclamation during the transfer approval process. DWR and Reclamation will be responsible for ensuring that well reviews and monitoring and mitigation plans are coordinated and implemented in conjunction with local ordinances, basin management objectives, and all other applicable regulations. Therefore, the Proposed Action will not have a significant adverse impact on groundwater resources.

Water Quality: Transfer of water via stored reservoir water, groundwater substitution and crop idling under the proposed action would alter surface water elevation and reservoir storage in Lake Shasta and Folsom Reservoir. However, any differences in water surface elevation and reservoir storage would not be of sufficient magnitude and frequency to affect water quality in such a way that would result in long-term adverse effects to designated beneficial uses, exceedance of existing regulatory standards or substantial degradation of water quality. Also, transfer of water under the proposed action via stored reservoir water, groundwater substitution, and crop idling under the proposed action would not substantially change Sacramento or Lower American River flows or water temperatures.

Because there would be little to no increase in sediment transport under the proposed action as compared to the no action alternative, there would be little to no decrease in the physiochemical qualities of surface water and adverse effects to designated beneficial uses, exceedance of existing regulatory standards, or substantial degradation of water quality would not be expected.

Because there would be less total leaching potential under the proposed action as compared to the no action alternative due to a decrease in applied irrigation water with crop idling, there would not be a decrease in water quality due to timing and application of water to the land as a result of crop idling. In fact, there would potentially be an improvement in the quality of surface water runoff returning to rivers and lakes.

Under the Proposed Action, there would be an increase in the amount of groundwater substituted for surface water under the proposed action, as compared to the no action alternative. However, this increase would be so small in comparison to the amount of surface water currently used to irrigate agricultural fields that the quality of the surface water, even after mixing with groundwater, would not be substantially decreased. The previously mentioned reviews, monitoring and mitigation plans that will be required of sellers will also minimize the potential for adverse effects to water quality from groundwater substitution under the proposed action.

Conveyance of transfer water under the Proposed Action will be implemented using standard CVP and SWP operating procedures designed to improve the water quality to users south and downstream of the Delta. Carriage water will be used to protect and maintain chloride concentrations in the Delta and Reclamation will only approve water transfers under the proposed action if they meet all of the required provisions of DWR's acceptance criteria governing conveyance of non-Project water through the California Aqueduct. Therefore, the proposed action would not have a significant adverse effect on water quality.

Geology and Soils: Water transfers via crop idling would result in temporary conversion of lands from rice crops to fallowed fields. However, the rice crop cycle and soil texture reduces the potential for erosion. Therefore, there would be little to no soil loss from wind erosion off the idled rice fields, and the proposed action would not significantly affect geology and soils.

Agriculture and Land Use: Water transfers via crop idling would temporarily alter agricultural land use conditions. However, temporal (one year) water transfers from the DWB are expected to contribute a relatively small amount of rice idling acreage in relation to the normal variation in planted rice acreage resulting from typical farming practices. To minimize potential adverse impacts to agricultural land use, proposed water transfers would be approved only if no more than 20 percent of rice fields would be idled cumulatively (from all sources of fallowing) in each county. If crop idling would change the classification of farmland to levels less than Prime Farmland, Farmland of Statewide Importance, or Unique Farmland under the Farmland Mapping and Monitoring Program and Prime Farmland under the Williamson Act, Reclamation would not approve transfer of water from that parcel. Therefore, the Proposed Action will not have a significant adverse impact on agriculture and land use.

Vegetation and Wildlife: Decreasing groundwater levels could reduce part of the water base for habitat. The well review and required monitoring and mitigation plans described in the groundwater section would minimize or avoid potential adverse effects to habitat from groundwater - surface water interaction.

Crop idling under the proposed action would reduce return flows, potentially affecting neighboring managed seasonal wetlands. As a part of the contractual agreements, DWR will require the willing seller of water for crop idling to maintain their drainage systems at a water level that will maintain existing wetlands and provide habitat for western pond turtle.

Crop idling of seasonally flooded agricultural land under the Proposed Action could reduce the amount of over winter forage for migratory birds. In order to limit reduction in the amount of over-winter forage for migratory birds, Reclamation will avoid or minimize actions near known wintering areas and areas that support core populations of special status species such as the black tern and greater sandhill crane. Therefore, the Proposed Action will not have a significant impact on vegetation and wildlife.

Fisheries: Potential changes in flows and water temperatures under the Proposed Action would not be of sufficient frequency or magnitude to affect Chinook salmon or steelhead adult immigration, spawning, egg incubation, and initial rearing, or juvenile rearing and emigration. Transfers involving conveyance through the Delta will be implemented within the operational parameters of the Biological Opinions on Continued Long-term Operations of the CVP/SWP. Water transfers under the Proposed Action will be implemented in accordance with meeting flow and temperature requirements on the

Sacramento River. Therefore, the Proposed Action will not have a significant impact on fisheries.

Special Status Species: In compliance with Section 7 of the Endangered Species Act, Reclamation conducted formal consultation with the Service on the Proposed Action. Reclamation has determined that the Proposed Action is not likely to adversely affect the San Joaquin kit fox and may adversely affect the giant garter snake (GGS).

The 2009 DWB will adopt the crop idling conservation measures from the Environmental Water Account (EWA) Biological Opinion (2004) with some modifications. The following conservation measures to protect the giant garter snake (GGS) will be incorporated into contracts between DWR and the water seller:

- The block size of idled rice parcels will be limited to 320 acres in size with no more than 20 percent of rice fields idled cumulatively (from all sources of fallowing) in each county, or area within 1 mile of the following refuge areas: Sacramento National Wildlife Refuge Complex (Sacramento, Delevan, Colusa, Sutter, Butte Sink and Llano Seco Unit), Gray Lodge Wildlife Area (WA), Upper Butte Basin WA, and Gilsizer Slough Conservation Easement. The 320-acre blocks will not be located on opposite sides of a canal or other waterway, and will not be immediately adjacent to another fallowed parcel (a checkerboard pattern is the preferred layout);
- Parcels participating in crop idling for the 2009 DWB will not include:
 - Lands between Refuges that serve as corridors: lands adjacent to Hunters and Logan Creeks between Sacramento National Wildlife Refuge (NWR) and Delevan NWR; the Colusa Basin drainage canal between Delevan and Colusa NWRs; Little Butte Creek between Llano Seco (NWR unit) and Upper Butte Basin WA; and Butte Creek between Upper Butte Basin and Gray Lodge WA;
 - Lands adjacent to Butte Creek, Colusa Drainage Canal, Gilsizer Slough, the land side of the Toe Drain along the Sutter Bypass, Willow Slough and Willow Slough Bypass in Yolo County, and
 - Lands in the Natomas Basin;
- The water seller will maintain a depth of at least two feet of water in the major irrigation and drainage canals (but never more than existing conditions) to provide movement corridors;
- Water will not be purchased from a field fallowed by another program in the two previous years;
- As part of a Giant Garter Snake Baseline Monitoring and Research Strategy for the development of a GGS Conservation Strategy, DWR and Reclamation

are proposing research goals to help quantify and evaluate the response of the GGS to riceland idling.

- In addition, during formal consultation with the Service, Reclamation has committed to implementing the following measures as described in the April 14, 2009 Biological Opinion:
 - Reclamation will work with DWR to document the compliance with the commitment to assure that idled parcels are no more than 320 acres in size, not located across a canal or other waterway, are not immediately adjacent to another fallowed parcel, and are distributed across the landscape in a checkerboard pattern.
 - Reclamation will reject parcels that do not conform to these criteria from participating in the DWB.
 - Reclamation will create maps showing the location of parcels enrolled to sell water to the DWB by rice fallowing or crop substitution which demonstrate compliance with the spatial criteria for fallowing rice. Reclamation will provide the maps to the Service by June 14, 2009.
 - Reclamation will gather information on the level of participation by DWB entities in the BMP's for giant garter snake.
 - Reclamation will provide this information to the Service at the end of August 2009.
 - Reclamation will submit a monthly compliance report prepared by DWR to the Sacramento Fish and Wildlife Office beginning thirty (30) calendar days from signing contracts to participate in the DWB. This report will detail: (i) total acreage affected and location where the fallowing occurred; (ii) confirmation that acreage fallowed conformed to the checkerboard pattern; (iii) confirmation that buffer zones have been complied with; (iv) confirmation that water levels are being maintained in ditches around affected fields; (v) occurrences of incidental take of any giant garter snake, if any; (vi) an explanation of failure to meet such measures, if any; and (vii) other pertinent information.

In their April 14, 2009 Biological Opinion (BO), the Service concurred that the Proposed Action is not likely to adversely affect the San Joaquin kit fox and determined that the proposed action is not likely to result in jeopardy to the giant garter snake (GGS). The proposed conservation measures that have been coordinated with the Service and will be incorporated into the Proposed Action will minimize adverse impacts to GGS populations by reducing stressors, and therefore the Proposed Action will not have a significant impact on GGS. The BO also determined that effects of the Proposed Action on delta smelt were included in the consultation for the Continued Long-term Operation

of the Central Valley Project and State Water Project, and that no additional adverse effects to delta smelt will occur beyond those evaluated in that consultation.

Air Quality: Increased groundwater pumping under the Proposed Action will increase NO_x emissions. Reclamation, DWR and willing sellers will work together to implement one, or a combination, of the following mitigation measures to reduce air quality impacts within their district: retrofit non-program pumps in amounts necessary to offset the maximum increases in project-related air pollutant emissions; or purchase offsets to compensate for producing project-related emissions. Inclusion of the proposed mitigation measures into the Proposed Action will ensure that the Proposed Action will be implemented in compliance with all applicable air quality standards, and therefore will not have a significant impact on air quality.

Power: The proposed action will not change the amount of water that is released from the reservoirs, but could alter the release pattern. Buyers will be responsible for covering any additional costs associated with changes in release patterns. The proposed action will result in an average electricity increase at the Project pumps during July, August, and September, depending on the amount of water actually transferred under the proposed action. In addition, groundwater wells in the Sacramento Valley will increase their use of electricity for water supply replacement. However, this increase in electricity use will represent less than 2 percent of the projected statewide electrical surplus during these months. Therefore, the Proposed Action will not have a significant impact on power.

Cultural Resources: Under the Proposed Action, Reclamation will not approve transfers that would drawdown reservoirs beyond historic operational levels. If reservoir operations remain within historic levels, then the proposed action will have no potential to affect historic properties pursuant to the regulations at 36 CFR Part 800.3(a)(1) resulting in no affect to cultural resources.

Indian Trust Assets: Based on the actions to be undertaken it is determined that there will be potential effects to Indian Trust Assets (ITAs). However, during the transfer approval process, if Reclamation identifies potential impacts to ITAs, tribal consultation will then precede any approval of a DWB groundwater transfer in the vicinity of the identified tribes and avoidance and mitigation measures will be collaboratively developed and implemented by sellers so that the Proposed Action will not have a significant impact on ITAs.

Socioeconomics: The maximum amount of water that will be made available by crop idling under the Proposed Action is 183,385 af. This equates to approximately 55,571 acres of crop idling. However, it is likely that the actual amount of water that is actually transferred via this method in 2009 will be less. This is a worst case scenario analysis. In order to avoid or decrease adverse social effects on community stability, Reclamation and DWR will not approve DWB water transfers via crop idling if more than 20 percent of recent harvested rice acreage in the county would be idled.

Therefore, the Proposed Action will not have a significant adverse impact on socioeconomics.

Environmental Justice: Because of the farmworker profile, crop idling could have disproportionate effects on low income and minority farmworkers. However, to minimize the potential for this effect, crop idling (from all sources) would be restricted to no more than 20% of rice acreage in any county. The proposed action also has the potential benefit of alleviating the need for some idling and or farm laborer job loss in areas receiving transfer water through the DWB. As the Proposed Action would not disproportionately expose low income or minority populations to adverse environmental or human health impacts, the Proposed Action would not have a significant environmental justice impact.

Climate Change: Since the proposed action would have no construction element and would use existing facilities within the range of normal operations, it would have no effect on climate change. As the proposed action is for a one year program, climate change is not expected to affect the proposed action.

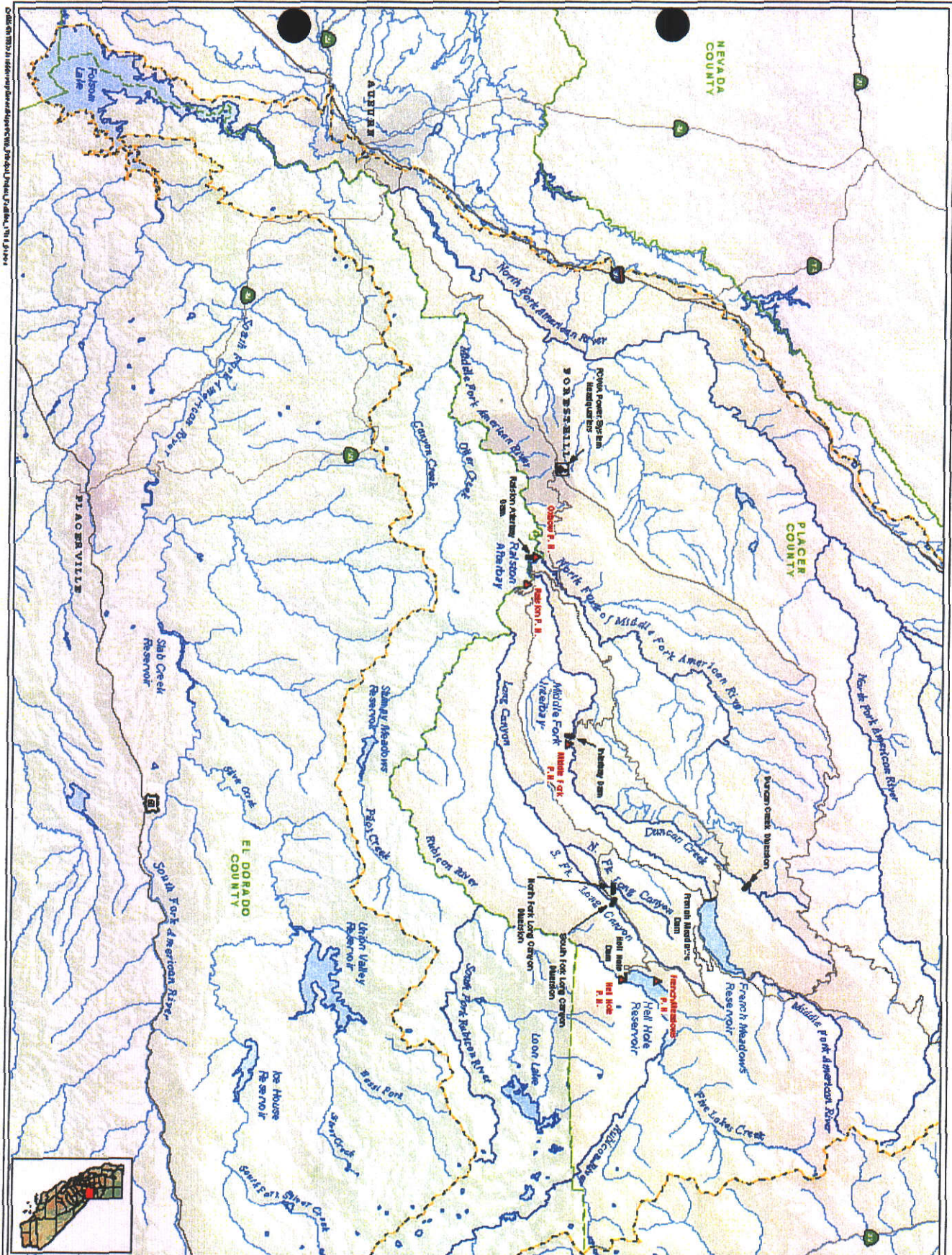
Aesthetics: The proposed action does not involve construction, introduction of new scenic features, or activities that would visually change the landscape for more than one season. The proposed action could, however, result in temporary changes or seasonal changes in the landscape. These changes would be minor, and thus the Proposed Action would not significantly impact aesthetics.

Cumulative Effects: Crop idling and groundwater substitution transfers have been implemented in previous drought response efforts, such as in the 1990's. Crop idling is also done on a regular basis as part of crop rotation and for other reasons, such as in response to hydrologic conditions, in the potentially affected areas. Groundwater use has also been implemented to supplement surface water in the past in many of the potentially affected areas, and other potential programs utilizing groundwater are described in the EA.

Fourteen non-CVP entities have indicated interest in providing water for the 2009 DWB. As previously described for potential CVP sellers, the EA analyzes estimates that reflect the potential upper limit of available water. From non-CVP sources, the DWB could potentially transfer up to 62,750 af from crop idling, 48,300 af from groundwater substitution, and 60,000 af from reservoir reoperation. Totals from all sources for the DWB would be up to 183,385 af from crop idling, 117,550 af from groundwater substitution, and 70,000 af from reservoir reoperation. The cumulative total amount potentially transferred under the DWB from all sources would be up to 370,935 af. All water transfers under the DWB will be implemented in accordance with requirements for meeting flow and temperature requirements on the Sacramento River. Also, all water transfers involving conveyance through the Delta will be implemented within the operational parameters of all applicable water quality standards and the Biological Opinions on Continued Long-term Operations of the CVP/SWP, including the limitations

of 600,000 af for all water transfers and transfer window of July through September.

Approval of the proposed water transfers under the DWB would not have highly controversial or uncertain environmental effects or involve unique or unknown environmental risks. Given the short-term nature of the proposed water transfer program, impacts to the previously discussed resource categories associated with the Proposed Action would be temporary in nature, and would not contribute to a cumulatively significant adverse impact when added to other past, present and reasonably foreseeable future actions.



© 2008 by The Nevada State Water Resources Center, University of Nevada, Reno, NV 95951

Project Related Facilities

- ▲ Power House
- Dam
- PCRM Power System Headquarters

Transportation

- Major Road
- Minor Road

Hydrography

- Watercourse
- Water body

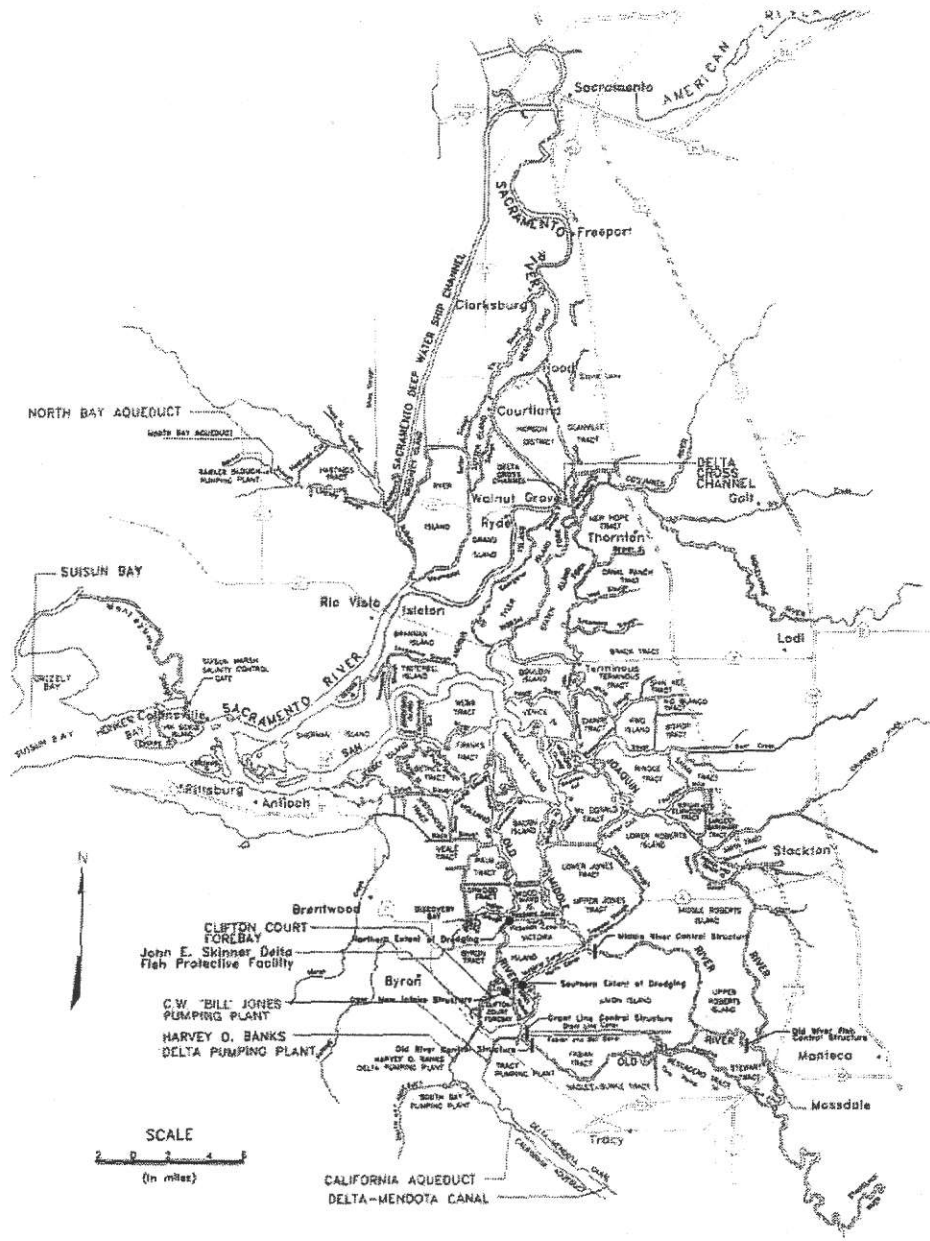
- North Fork American River Watershed

Designated Boundary

- County Boundary
- City Boundary












Placer County Water Agency
 Middle Fork American River Hydroelectric Project
 Figures X - X
Principal Project Facilities and Geographic Setting
 Prepared by: CA State Water Control
 March 2008

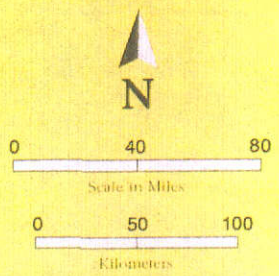


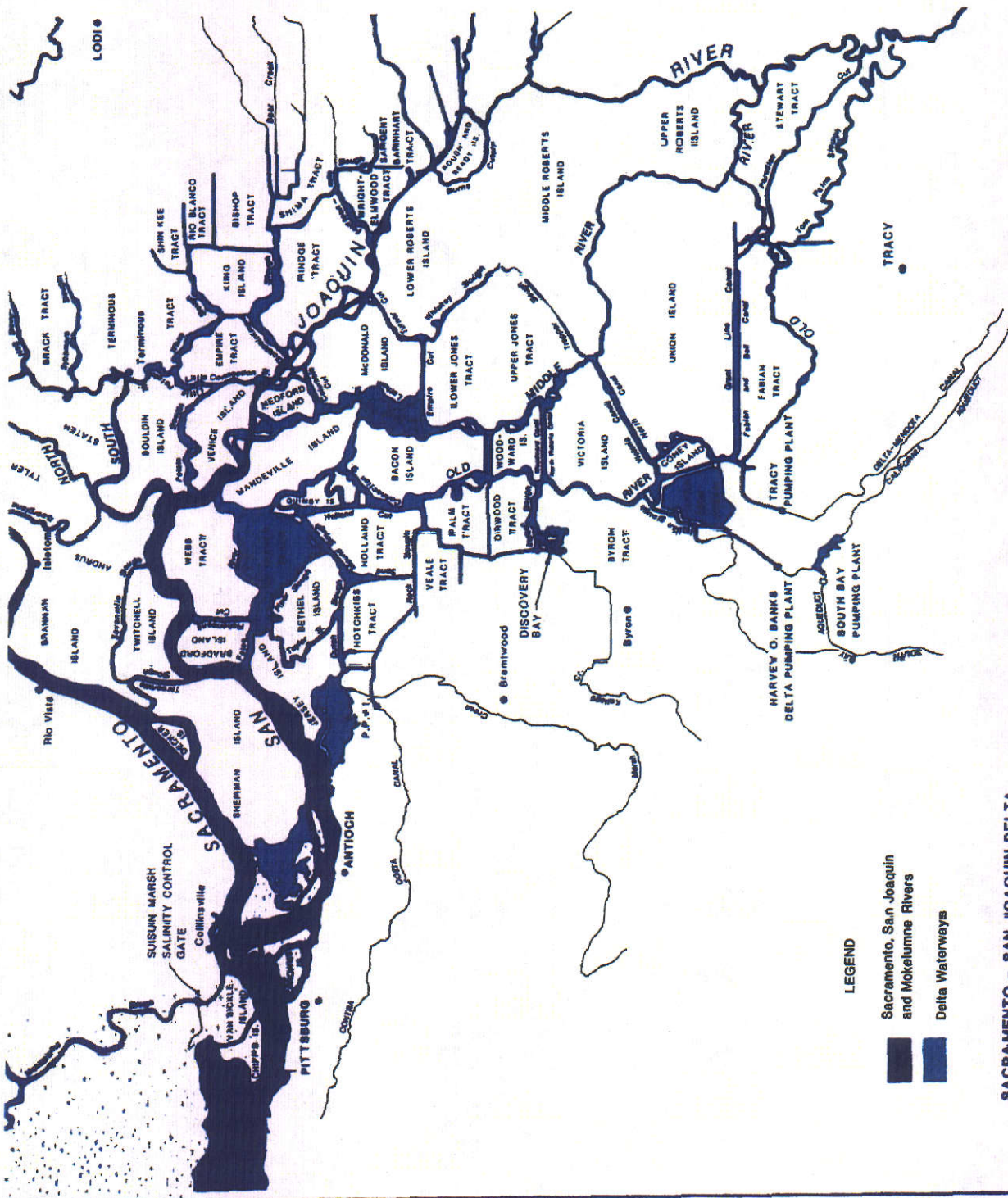
Sacramento-San Joaquin Delta

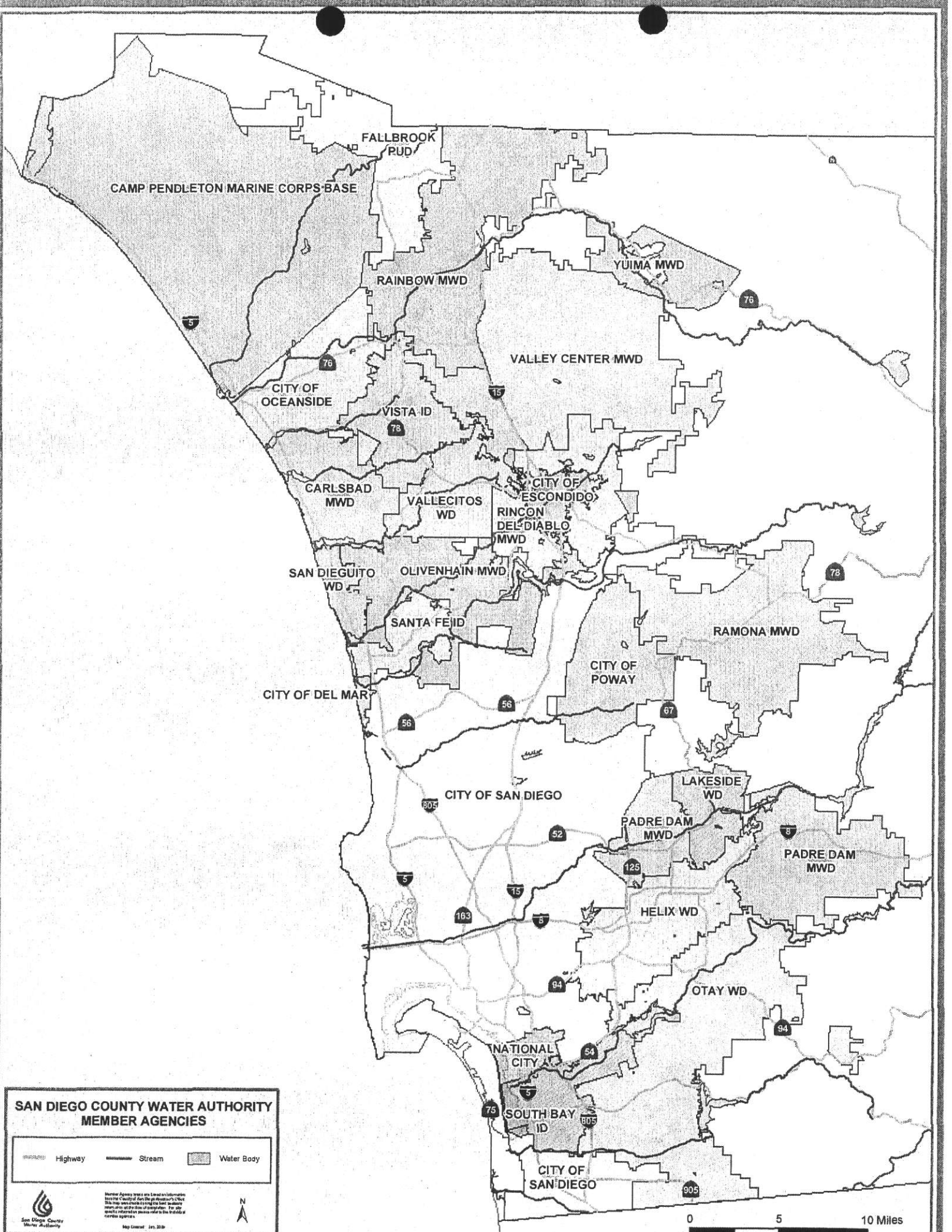
CALIFORNIA STATE WATER PROJECT

STATE WATER PROJECT (SWP) FACILITIES

-  RIVERS
-  LAKES
-  CVP CANALS AND AQUEDUCTS
-  SWP AQUEDUCT
-  LOCAL EXTENSION
-  STATE-FEDERAL WATER PROJECT
-  CVP FACILITIES
-  STATE WATER PROJECT FACILITIES
-  STATE-FEDERAL WATER PROJECT FACILITIES







**SAN DIEGO COUNTY WATER AUTHORITY
MEMBER AGENCIES**

 Highway
  Stream
  Water Body



Member Agency names are listed on information from the County of San Diego website. This map was created using the best available information and is not a guarantee. For all service information please refer to the individual member agencies.



Map Created: Jan. 2010

0 5 10 Miles



United States Department of the Interior

BUREAU OF RECLAMATION
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, California 95825-1898

IN REPLY
REFER TO:
MP-100
ENV-1.10

DEC 15 2008

RECEIVED

DEC 15 2008

SACRAMENTO FISH
& WILDLIFE OFFICE

MEMORANDUM

To: Regional Director, Region 8
U.S. Fish and Wildlife Service

From: Donald R. Glaser
Regional Director

Subject: Biological Opinion for Delta Smelt, Dated December 15, 2008

We are in receipt of the Biological Opinion regarding the effects of the continued long-term operation of the Central Valley Project (CVP) and State Water Project (SWP) on delta smelt dated December 15, 2008. We appreciate all the hard work of you and your staff in the Section 7 consultation and preparation of this document.

At this time, the Bureau of Reclamation provisionally accepts the Reasonable and Prudent Alternative (RPA) developed by the U.S. Fish and Wildlife Service (Service) and included in the Biological Opinion conditioned upon the further development and evaluation of the two RPA components directed at habitat. RPA Component 3, the fall action, and RPA Component 4, the tidal habitat restoration action, both need additional review and refinement before Reclamation will be able to determine whether implementation of these actions by the Projects is reasonable and prudent. Further, these actions have the potential to impact listed salmonids; thus, these actions need to be coordinated with the National Marine Fisheries Service (NMFS) through Reclamation's ongoing consultation with NMFS regarding the effects of long-term Project operations.

Reclamation recognizes and appreciates that these Components have been designed with flexibility, and that the adaptive management process described in the Component 3 is intended to refine the action; however, we believe that both Components need to be developed in more detail before Reclamation can unconditionally accept the RPA. Reclamation would like to continue to work with you and your staff regarding how these Components of the RPA will be implemented so that we can better understand the required changes in CVP and SWP operations. If Reclamation, in coordination with the Department of Water Resources, ultimately determines that these two Components are not reasonable and prudent, Reclamation will reinitiate consultation.

Reclamation will begin immediate implementation of the RPA by modifying operations as required to comply with the Biological Opinion. We will notify you as soon as we determine if we can unconditionally accept the Reasonable and Prudent Alternative, or whether reinitiation of consultation is warranted.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
ORDER WR 2001 - 18 - DWR

IN THE MATTER OF PERMITS 13856 AND 13858
(APPLICATIONS 18085 AND 18087)
TEMPORARY CHANGE INVOLVING THE TRANSFER OF
UP TO 20,000 ACRE-FEET OF WATER
TO CALFED'S ENVIRONMENTAL WATER ACCOUNT
ADMINISTERED BY THE DEPARTMENT OF WATER RESOURCES
UNDER PLACER COUNTY WATER AGENCY'S WATER RIGHT

ORDER AUTHORIZING TEMPORARY CHANGE IN PLACE OF USE,
PURPOSE OF USE, AND POINT OF REDIVERSION
BY THE CHIEF OF THE DIVISION OF WATER RIGHTS:

1.0 SUBSTANCE OF PETITION

On June 15, 2001,

Placer County Water Agency
c/o Einar Maisch, Dir. Strat. Serv.
144 Ferguson Road
Auburn, CA 95670

filed with the State Water Resources Control Board (SWRCB) a Petition for Temporary Change under Water Code section 1725, *et seq.* If approved, the service areas of the State Water Project and Central Valley Project would be temporarily added to the authorized place of use under water right permits 13856 and 13858 held by the Placer County Water Agency (PCWA). The approval would allow a transfer of 20,000 acre-feet of water under PCWA's water rights to CALFED's Environmental Water Account. The temporary change would be effective until December 31, 2001. The use of the transferred water would be administered by the Department of Water Resources as part of CALFED's Environmental Water Account.

2.0 BACKGROUND

2.1 Substance of PCWA's Permits Permit 13856 was issued to PCWA on January 10, 1963. Permit 13856 authorizes PCWA to divert up to 1225 cubic feet per second and collect to storage 249,000 acre-feet from November 1 to July 1 of each year for domestic, irrigation, industrial, municipal and recreational purposes.

Permit 13858 was issued to PCWA on January 10, 1963. Permit 13858 authorizes PCWA to divert up to 800 cubic feet per second and collect to storage 66,000 acre-feet from November 1 to July 1 of each year for domestic, irrigation, industrial, municipal and recreational purposes.

3.0 AVAILABILITY OF WATER FOR TRANSFER

PCWA estimates it will have approximately 186,300 acre-feet of water in storage by June 30, 2001, in its Middle Fork Project reservoirs (French Meadows and Hell Hole reservoirs). This water is stored pursuant to a Federal Energy Regulatory Commission license (Project No. 2079) and water right permits 13855, 13856, 13857, and 13858. Of this amount, 34,800 acre-feet is committed to be delivered to PCWA's contractors or is needed for delivery to PCWA's customers during the proposed transfer period. Of the remaining 151,500 acre-feet, 51,500 acre-feet will be used for power generation and 100,000 acre-feet is reserved for carryover storage for 2002, in the absence of the transfer. Minimum storage under FERC License 2079 is 50,000 acre-feet, leaving a surplus of 50,000 acre-feet available for transfer. PCWA proposes to transfer only 20,000 acre-feet of this surplus.

The 20,000 acre-feet proposed to be released for transfer to the Environmental Water Account is currently in storage and will not be released this year except to the extent the transfer petition is approved. The Department of Water Resources and the US Bureau of Reclamation have agreed that the release of this water from storage is "new water" which would not otherwise be available during this dry year.

In light of the above, I find in accordance with Water Code section 1727(b)(1) that the proposed transfer would not injure any legal user of the water and that the proposed temporary change of water rights involves only the amount of water that would have been consumptively used or stored in the absence of the temporary change.

4.0 ENVIRONMENTAL CONSIDERATIONS

In accordance with Water Code section 1729, temporary changes involving transfer of water are exempt from the requirements of the California Environmental Quality Act (Public Resources Code section 21000, et seq.). However, the SWRCB must consider potential impacts on fish, wildlife and other instream beneficial uses in accordance with Water Code section 1727(b)(2).

The proposed temporary change in place of use, purpose of use, and point of diversion involves water that was previously stored. Since the water proposed for transfer would temporarily benefit fishery resources by providing increased flows and decreased water temperatures in a critically dry year there is no apparent reason why increased flows during the summer would harm fishery resources.

In light of the above, I find that in accordance with Water Code section 1727(b)(2) that the proposed transfer would have no unreasonable effects on fish, wildlife or other instream beneficial uses.

5.0 COMMENTS RECEIVED ON THE PROPOSED TRANSFER/EXCHANGE

Only one comment by the United States Bureau of Reclamation (USBR) was received by the July 19, 2001 deadline date. USBR approved of the transfer and agreed that the transfer would not adversely affect the water rights or operations of the CVP provided PCWA adheres to the refill agreement criteria established by Contract No. 01-WC-20-2034.

6.0 TRANSFER ALLOCATION

The amount authorized for transfer under the submitted petition is 20,000 acre-feet. PCWA has until December 31, 2001 to transfer the above water. Any water transferred prior to the date of this order and after December 31, 2001 is not authorized.

7.0 SWRCB'S DELEGATION OF AUTHORITY

On April 29, 1999, the SWRCB adopted Resolution 99-031, continuing the delegation of authority to approve petitions for temporary changes to the Chief of the Division of Water Rights, provided the necessary statutory findings can be made.

8.0 CONCLUSIONS

There is adequate information in the Division's files to make the evaluation required by Water Code section 1727; and therefore I find as follows:

1. The proposed temporary change will not injure any legal user of the water.
2. The proposed temporary change will not unreasonably affect fish, wildlife, or other instream beneficial uses.
3. The proposed transfer involves only an amount of water that would have been consumptively used or stored in the absence of the temporary change.

ORDER

NOW, THEREFORE, IT IS ORDERED that the petition for temporary change in the point of diversion, place of use and purpose of use under Placer County Water Agency's Permits 13856 and 13858 of up to 20,000 acre-feet of water is approved.

All existing terms and conditions of the subject permit remain in effect, except as temporarily amended by the following provisions:

1. The transfer shall be carried out between the issuance date of this order and December 31, 2001.

2. For the purposes of this transfer, the place of use shall be temporarily changed as follows:

The authorized place of use is temporarily expanded to include the service areas of the State Water Project and Central Valley Project as shown on maps on file with the SWRCB.

3. For the purposes of this transfer, Permits 13856 and 13858 are temporarily amended to include the following additional points of diversion:

Harvey O. Banks Pumping Plant within the NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Projected section 20, T1S, R3E, MDB&M.

CVP Pumping Plant within the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Projected section 31, T1S, R4E, MDB&M.

4. For the purposes of this transfer, Permits 13856 and 13858 are temporarily amended to include fish and wildlife enhancement.
5. Within 60 days of the completion of the transfer/exchange, but no later than April 1, 2002, the permittee shall provide to the Chief of the Division of Water Rights a report describing the use of the water transferred pursuant to this Order. The report shall include a summary showing the monthly amounts of water actually transferred under this Order.

The report should include the following information:

- a. General locations where the transferred water was used;
 - b. The monthly amounts of water each location received; and
 - c. The average application rate of water in the locations.
6. Permittee shall comply with all existing operation standards at the point of diversion including those contained in Water Right Decision 1641, other applicable water right permits, licenses or orders, and applicable conditions set forth in biological opinions established under the State or Federal Endangered Species Acts.
 7. The refill criteria set forth under contract No. 01-WC-20-2034 between PCWA and USBR dated July 3, 2001, shall govern the conditions which refill occurs for the transferred storage allowed in this order.
 8. Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges under this transfer and temporary change Order, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the SWRCB in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

The continuing authority of the SWRCB also may be exercised by imposing specific requirements over and above those contained in this Order to minimize waste of water and to meet reasonable water requirements without unreasonable draft on the source.

9. This Order does not authorize any act which results in the taking of a threatened or endangered species or any act which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code sections 2050 to 2097) or the federal Endangered Species Act (16 U.S.C.A. sections 1531 to 1544). If a "take" will result from any act authorized under this temporary transfer, the Permittee shall obtain authorization for an incidental take permit prior to construction or operation.

Permittee shall be responsible for meeting all requirements of the applicable Endangered Species Act for the temporary transfer authorized under this Order.

10. I reserve jurisdiction to supervise the transfer, exchange and use of water under this Order, and to coordinate or modify terms and conditions, for the protection of vested rights, fish, wildlife, instream beneficial uses and the public interest as future conditions may warrant.

David L. Buehler
for Harry M. Schueller, Chief
Division of Water Rights

Dated: August 2, 2001



State Water Resources Control Board



Winston H. Hickox
Secretary for
Environmental
Protection

Division of Water Rights
1001 I Street, 14th Floor • Sacramento, California 95814 • (916) 341-5300
Mailing Address: P.O. Box 2000 • Sacramento, California • 95812-2000
FAX (916) 341-5400 • Web Site Address: <http://www.swrcb.ca.gov>
Division of Water Rights: <http://www.waterrights.ca.gov>

Gray Davis
Governor

In Reply Refer
to: 333:BRC:18085,18087

AUG 02 2001

Placer County Water Agency
c/o Elinar Maisch, Dir. Strat. Serv.
144 Ferguson Road
Auburn, CA 95670

Dear Ms. Maisch:

PERMITS 13856 AND 13858 (APPLICATIONS 18085 AND 18087)
UPPER AMERICAN RIVER IN PLACER COUNTY

Enclosed is a copy of the Order approving temporary changes in the point of redirection, purpose of use, and place of use in response to Placer County Water District's request for a temporary transfer of water under Water Code section 1725, et seq. This transfer of water is limited to a period commencing on the date of the Order through December 31, 2001.

Should you have any questions, please contact Brian Coats, the staff person assigned to this project at (916) 341-5311.

Sincerely,

David R. Beinger
for Harry M. Schueller, Chief
Division of Water Rights

Enclosure

cc: (See attached list)

Placer County Water Agency
c/o Elinar Maisch, Dir. Strat. Serv.
Page 2

CC Mailing List:

Department of Water Resources
c/o Dan Flory
P.O. Box 942836
Sacramento, CA 94236-001

Kronick, Moskovitz, Tiedemann and Girard
c/o Janet Goldsmith
400 Capitol Mall, 27th Floor
Sacramento, CA 95814-3363

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

May 2008

Estimated numbers are in bold italic print

| Date | DELTA INFLOW | | | | | | | | NDCU | DELTA EXPORTS | | | | | | OUTFLOW INDEX | | | Export/Inflow | | | |
|----------------|------------------------------------|-------------------|------------------------------|------------------------------------|--|------------------|--------------------|--------------------------|---------------|---------------------------|----------------|--------------------------|----------------------------|--------------|---------------------------|---------------------------|----------------|----------------|----------------|---------------|---------------|---------------|
| | Sacto R @Freeport -prev day- | SRTP -prev wk- | Yolo + Misc -prev day- | East Side Streams -prev day- | S. Joaquin River@Vernalis -prev day- | 7-day Average | Monthly Average | Total Delta Inflow | | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) |
| 1-May-08 | 8,241 | 210 | 715 | 696 | 2,997 | 3,099 | 2,987 | 12,859 | 2,000 | 803 | 537 | 177 | 85 | 85 | 1,518 | 1,467 | 9,341 | 9,737 | 9,341 | 9.8% | 11.4% | 9.9% |
| 2-May-08 | 8,138 | 209 | 716 | 669 | 2,987 | 3,073 | 3,008 | 12,719 | 2,000 | 696 | 835 | 189 | 60 | 88 | 1,748 | 1,465 | 8,970 | 9,405 | 9,156 | 11.6% | 11.2% | 10.0% |
| 3-May-08 | 8,127 | 207 | 689 | 633 | 3,029 | 3,057 | 3,019 | 12,685 | 2,050 | 695 | 837 | 206 | 50 | 86 | 1,774 | 1,468 | 8,862 | 9,146 | 9,058 | 11.7% | 11.0% | 10.2% |
| 4-May-08 | 7,828 | 206 | 676 | 620 | 3,041 | 3,036 | 3,029 | 12,371 | 2,100 | 690 | 838 | 216 | 50 | 88 | 1,782 | 1,531 | 8,489 | 8,909 | 8,915 | 11.9% | 11.7% | 10.9% |
| 5-May-08 | 6,993 | 204 | 663 | 623 | 3,057 | 3,021 | 3,031 | 11,540 | 2,100 | 688 | 842 | 216 | 85 | 84 | 1,745 | 1,530 | 7,695 | 8,623 | 8,671 | 12.5% | 12.0% | 11.1% |
| 6-May-08 | 7,120 | 203 | 656 | 641 | 3,043 | 3,040 | 3,047 | 11,663 | 2,100 | 690 | 844 | 209 | 53 | 84 | 1,774 | 1,531 | 7,789 | 8,490 | 8,524 | 12.7% | 12.4% | 11.3% |
| 7-May-08 | 7,766 | 201 | 654 | 650 | 3,126 | 3,063 | 3,063 | 12,397 | 2,150 | 686 | 843 | 208 | 67 | 90 | 1,761 | 1,531 | 8,487 | 8,519 | 8,519 | 11.8% | 12.3% | 11.5% |
| 8-May-08 | 8,287 | 200 | 643 | 639 | 3,155 | 3,097 | 3,084 | 12,924 | 2,150 | 682 | 842 | 203 | 56 | 90 | 1,772 | 1,533 | 9,002 | 8,471 | 8,579 | 11.4% | 12.0% | 11.6% |
| 9-May-08 | 7,970 | 200 | 657 | 635 | 3,231 | 3,134 | 3,106 | 12,693 | 2,200 | 699 | 843 | 200 | 63 | 89 | 1,770 | 1,536 | 8,723 | 8,435 | 8,595 | 11.7% | 11.6% | 11.7% |
| 10-May-08 | 8,060 | 200 | 680 | 638 | 3,283 | 3,163 | 3,120 | 12,861 | 2,200 | 694 | 843 | 203 | 50 | 91 | 1,781 | 1,538 | 8,880 | 8,438 | 8,624 | 11.6% | 11.6% | 11.9% |
| 11-May-08 | 7,875 | 200 | 668 | 633 | 3,246 | 3,216 | 3,148 | 12,622 | 2,250 | 684 | 842 | 203 | 50 | 92 | 1,771 | 1,536 | 8,601 | 8,454 | 8,622 | 11.7% | 11.6% | 11.9% |
| 12-May-08 | 7,358 | 200 | 642 | 589 | 3,429 | 3,277 | 3,175 | 12,218 | 2,300 | 686 | 840 | 204 | 53 | 89 | 1,765 | 1,530 | 8,153 | 8,519 | 8,583 | 12.1% | 11.8% | 11.9% |
| 13-May-08 | 8,019 | 200 | 636 | 607 | 3,472 | 3,305 | 3,186 | 12,934 | 2,300 | 688 | 838 | 199 | 66 | 85 | 1,745 | 1,526 | 8,889 | 8,676 | 8,606 | 11.3% | 11.7% | 11.8% |
| 14-May-08 | 8,195 | 200 | 611 | 586 | 3,317 | 3,317 | 3,190 | 12,909 | 2,350 | 690 | 839 | 223 | 76 | 83 | 1,760 | 1,527 | 8,799 | 8,721 | 8,620 | 11.3% | 11.5% | 11.7% |
| 15-May-08 | 8,458 | 200 | 619 | 570 | 3,240 | 3,315 | 3,191 | 13,087 | 2,350 | 699 | 843 | 241 | 92 | 107 | 1,798 | 1,533 | 8,939 | 8,712 | 8,641 | 11.1% | 11.2% | 11.6% |
| 16-May-08 | 8,203 | 200 | 647 | 583 | 3,215 | 3,294 | 3,188 | 12,848 | 2,400 | 489 | 835 | 245 | 89 | 144 | 1,824 | 1,485 | 8,824 | 8,726 | 8,653 | 9.6% | 10.7% | 11.0% |
| 17-May-08 | 7,450 | 200 | 669 | 632 | 3,138 | 3,273 | 3,183 | 12,089 | 2,450 | 697 | 840 | 245 | 0 | 92 | 1,875 | 1,468 | 7,764 | 8,567 | 8,600 | 12.7% | 11.1% | 11.3% |
| 18-May-08 | 7,032 | 200 | 723 | 673 | 3,100 | 3,221 | 3,177 | 11,728 | 2,450 | 690 | 843 | 245 | 50 | 98 | 1,826 | 1,465 | 7,452 | 8,403 | 8,537 | 12.6% | 11.6% | 11.4% |
| 19-May-08 | 7,668 | 200 | 778 | 651 | 3,068 | 3,175 | 3,175 | 12,365 | 2,500 | 695 | 847 | 245 | 100 | 83 | 1,771 | 1,538 | 8,094 | 8,394 | 8,513 | 11.7% | 12.3% | 11.9% |
| 20-May-08 | 7,608 | 200 | 852 | 602 | 3,147 | 3,136 | 3,169 | 12,409 | 2,550 | 522 | 846 | 245 | 93 | 90 | 1,610 | 1,481 | 8,249 | 8,303 | 8,500 | 10.3% | 11.5% | 11.1% |
| 21-May-08 | 7,662 | 200 | 895 | 567 | 3,046 | 3,080 | 3,153 | 12,370 | 2,550 | 873 | 847 | 221 | 97 | 95 | 1,940 | 1,544 | 7,880 | 8,172 | 8,471 | 13.1% | 11.7% | 11.5% |
| 22-May-08 | 9,517 | 200 | 888 | 527 | 2,844 | 2,996 | 3,129 | 13,976 | 2,600 | 695 | 847 | 210 | 102 | 97 | 1,747 | 1,544 | 9,629 | 8,270 | 8,523 | 10.3% | 11.2% | 11.4% |
| 23-May-08 | 10,560 | 200 | 860 | 509 | 2,632 | 2,869 | 3,091 | 14,761 | 2,650 | 1,495 | 976 | 214 | 142 | 107 | 2,850 | 1,911 | 9,461 | 8,361 | 8,564 | 15.8% | 13.1% | 14.0% |
| 24-May-08 | 10,124 | 200 | 841 | 492 | 2,243 | 2,702 | 3,043 | 13,900 | 2,700 | 1,495 | 1,052 | 205 | 76 | 98 | 2,775 | 2,187 | 8,425 | 8,456 | 8,558 | 17.8% | 14.6% | 16.2% |
| 25-May-08 | 11,267 | 200 | 827 | 489 | 1,932 | 2,532 | 2,996 | 14,715 | 2,750 | 1,062 | 1,045 | 185 | 76 | 87 | 2,304 | 2,375 | 9,661 | 8,771 | 8,602 | 13.8% | 15.8% | 17.5% |
| 26-May-08 | 10,712 | 200 | 788 | 510 | 1,879 | 2,354 | 2,954 | 14,089 | 2,750 | 1,499 | 1,048 | 180 | 76 | 90 | 2,742 | 2,401 | 8,597 | 8,843 | 8,602 | 17.5% | 16.3% | 17.7% |
| 27-May-08 | 9,751 | 200 | 739 | 489 | 1,900 | 2,176 | 2,911 | 13,079 | 2,800 | 1,038 | 1,044 | 201 | 0 | 80 | 2,363 | 2,246 | 7,916 | 8,796 | 8,577 | 15.9% | 15.7% | 16.7% |
| 28-May-08 | 9,918 | 200 | 704 | 500 | 1,805 | 2,012 | 2,868 | 13,127 | 2,850 | 1,175 | 1,045 | 202 | 123 | 66 | 2,366 | 2,283 | 7,911 | 8,800 | 8,553 | 16.0% | 16.5% | 16.8% |
| 29-May-08 | 9,880 | 200 | 706 | 472 | 1,696 | 1,881 | 2,828 | 12,954 | 2,900 | 1,188 | 1,040 | 201 | 76 | 89 | 2,442 | 2,177 | 7,612 | 8,512 | 8,520 | 16.6% | 16.2% | 16.0% |
| 30-May-08 | 10,396 | 200 | 759 | 483 | 1,709 | 1,798 | 2,789 | 13,547 | 2,950 | 1,498 | 1,047 | 219 | 74 | 131 | 2,821 | 2,331 | 7,776 | 8,271 | 8,496 | 18.2% | 17.0% | 16.9% |
| 31-May-08 | 10,742 | 200 | 794 | 489 | 1,662 | 1,748 | 2,750 | 13,887 | 3,000 | 1,199 | 1,043 | 224 | 50 | 112 | 2,528 | 2,338 | 8,359 | 8,262 | 8,491 | 15.8% | 16.9% | 17.0% |
| Total | 266,925 | 6,240 | 22,395 | 18,097 | 86,669 | 89,459 | 94,785 | 400,328 | 75,450 | 26,793 | 27,556 | 6,585 | 2,179 | 2,893 | 61,648 | 53,534 | 263,228 | 267,163 | 267,814 | 401.8% | 397.2% | 397.4% |
| Average | 8,610 | 201 | 722 | 584 | 2,796 | 2,886 | 3,058 | 12,914 | 2,434 | 864 | 889 | 212 | 70 | 93 | 1,989 | 1,727 | 8,491 | 8,618 | 8,618 | 13.0% | 12.8% | 12.8% |

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

June 2008

Estimated numbers are in bold italic print

| Date | DELTA INFLOW | | | | | | | | | DELTA EXPORTS | | | | | | | OUTFLOW INDEX | | | Export/Inflow | | |
|----------------|----------------------|--------------|----------------|----------------------|---------------------------|------------------|--------------------|--------------------------|----------------|---------------------------|----------------|--------------------------|----------------------------|--------------|---------------------------|---------------------------|----------------|----------------|----------------|---------------|---------------|---------------|
| | Sacto R @Freeport | SRTP | Yolo + Misc | East Side Streams | S. Joaquin River@Vernalis | 7-day Average | Monthly Average | Total Delta Inflow | NDCU | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) |
| | -prev day- | -prev wk- | -prev day- | -prev day- | -prev day- | | | | | | | | | | | | | | | | | |
| 1-Jun-08 | 10,754 | 200 | 797 | 496 | 1,583 | 1,694 | 1,505 | 13,830 | 3,050 | 987 | 1,054 | 368 | 50 | 92 | 2,450 | 2,276 | 8,330 | 8,072 | 8,330 | 14.4% | 16.1% | 16.4% |
| 2-Jun-08 | 11,333 | 200 | 802 | 494 | 1,505 | 1,637 | 1,504 | 14,334 | 3,100 | 986 | 1,042 | 376 | 112 | 86 | 2,377 | 2,104 | 8,857 | 8,109 | 8,594 | 13.4% | 14.5% | 14.9% |
| 3-Jun-08 | 11,230 | 200 | 800 | 372 | 1,502 | 1,581 | 1,473 | 14,104 | 3,150 | 988 | 1,048 | 375 | 76 | 92 | 2,426 | 2,035 | 8,528 | 8,196 | 8,572 | 13.9% | 13.9% | 14.2% |
| 4-Jun-08 | 10,487 | 200 | 788 | 338 | 1,412 | 1,528 | 1,436 | 13,225 | 3,200 | 778 | 979 | 373 | 76 | 99 | 2,153 | 1,940 | 7,872 | 8,191 | 8,397 | 12.7% | 13.3% | 13.4% |
| 5-Jun-08 | 10,719 | 200 | 812 | 306 | 1,324 | 1,472 | 1,412 | 13,361 | 3,250 | 797 | 858 | 364 | 78 | 98 | 2,058 | 1,816 | 8,053 | 8,254 | 8,328 | 11.8% | 12.8% | 12.6% |
| 6-Jun-08 | 10,517 | 200 | 870 | 296 | 1,316 | 1,411 | 1,383 | 13,199 | 3,300 | 789 | 858 | 399 | 17 | 114 | 2,144 | 1,686 | 7,755 | 8,251 | 8,232 | 12.3% | 12.3% | 11.9% |
| 7-Jun-08 | 10,560 | 200 | 850 | 291 | 1,236 | 1,350 | 1,350 | 13,137 | 3,350 | 794 | 851 | 390 | 35 | 114 | 2,113 | 1,649 | 7,674 | 8,153 | 8,153 | 12.2% | 12.1% | 11.8% |
| 8-Jun-08 | 10,348 | 200 | 818 | 308 | 1,152 | 1,307 | 1,331 | 12,826 | 3,400 | 990 | 853 | 401 | 45 | 110 | 2,309 | 1,711 | 7,117 | 7,979 | 8,023 | 14.0% | 12.9% | 12.5% |
| 9-Jun-08 | 9,239 | 200 | 779 | 308 | 1,204 | 1,263 | 1,316 | 11,730 | 3,450 | 586 | 851 | 392 | 143 | 110 | 1,796 | 1,641 | 6,484 | 7,640 | 7,852 | 11.0% | 12.5% | 11.8% |
| 10-Jun-08 | 8,554 | 200 | 773 | 291 | 1,195 | 1,224 | 1,299 | 11,013 | 3,500 | 197 | 425 | 332 | 59 | 114 | 1,009 | 1,300 | 6,504 | 7,351 | 7,717 | 5.1% | 10.3% | 9.3% |
| 11-Jun-08 | 9,610 | 200 | 790 | 302 | 1,140 | 1,193 | 1,281 | 12,042 | 3,550 | 197 | 427 | 253 | 78 | 124 | 923 | 894 | 7,569 | 7,308 | 7,704 | 4.5% | 6.9% | 6.1% |
| 12-Jun-08 | 9,990 | 200 | 775 | 325 | 1,107 | 1,156 | 1,263 | 12,397 | 3,600 | 193 | 423 | 242 | 89 | 134 | 902 | 620 | 7,895 | 7,285 | 7,720 | 4.2% | 4.6% | 4.2% |
| 13-Jun-08 | 10,436 | 200 | 794 | 348 | 1,060 | 1,153 | 1,259 | 12,838 | 3,650 | 398 | 854 | 315 | 86 | 124 | 1,605 | 831 | 7,583 | 7,261 | 7,709 | 9.1% | 6.0% | 5.7% |
| 14-Jun-08 | 10,408 | 200 | 801 | 341 | 1,210 | 1,192 | 1,271 | 12,960 | 3,700 | 398 | 859 | 412 | 76 | 124 | 1,716 | 1,042 | 7,544 | 7,242 | 7,697 | 9.1% | 7.5% | 7.4% |
| 15-Jun-08 | 10,516 | 200 | 818 | 326 | 1,426 | 1,225 | 1,282 | 13,288 | 3,750 | 390 | 857 | 426 | 76 | 120 | 1,718 | 1,252 | 7,820 | 7,343 | 7,706 | 8.8% | 9.0% | 9.1% |
| 16-Jun-08 | 11,103 | 200 | 812 | 318 | 1,438 | 1,266 | 1,294 | 13,871 | 3,800 | 988 | 857 | 444 | 100 | 116 | 2,306 | 1,449 | 7,765 | 7,526 | 7,709 | 12.6% | 10.2% | 10.6% |
| 17-Jun-08 | 10,829 | 200 | 832 | 277 | 1,478 | 1,294 | 1,297 | 13,616 | 3,850 | 992 | 856 | 394 | 67 | 120 | 2,295 | 1,647 | 7,471 | 7,664 | 7,695 | 13.1% | 11.5% | 12.2% |
| 18-Jun-08 | 11,013 | 200 | 834 | 251 | 1,339 | 1,342 | 1,305 | 13,637 | 3,900 | 997 | 853 | 406 | 67 | 115 | 2,304 | 1,847 | 7,433 | 7,644 | 7,681 | 13.1% | 12.9% | 13.8% |
| 19-Jun-08 | 11,090 | 200 | 846 | 215 | 1,440 | 1,323 | 1,285 | 13,791 | 3,950 | 796 | 928 | 412 | 94 | 119 | 2,163 | 1,808 | 7,678 | 7,613 | 7,681 | 11.8% | 12.7% | 13.4% |
| 20-Jun-08 | 11,415 | 200 | 818 | 231 | 926 | 1,278 | 1,265 | 13,590 | 4,000 | 795 | 1,018 | 421 | 93 | 129 | 2,271 | 1,796 | 7,319 | 7,576 | 7,662 | 12.7% | 12.5% | 13.3% |
| 21-Jun-08 | 12,165 | 200 | 826 | 290 | 897 | 1,199 | 1,247 | 14,378 | 4,050 | 789 | 1,019 | 439 | 76 | 123 | 2,294 | 1,782 | 8,034 | 7,646 | 7,680 | 12.0% | 12.2% | 13.0% |
| 22-Jun-08 | 12,566 | 200 | 840 | 311 | 877 | 1,122 | 1,231 | 14,794 | 4,100 | 980 | 1,024 | 439 | 50 | 156 | 2,548 | 1,875 | 8,146 | 7,692 | 7,701 | 13.2% | 12.6% | 13.7% |
| 23-Jun-08 | 12,343 | 200 | 840 | 294 | 894 | 1,041 | 1,217 | 14,571 | 4,100 | 1,198 | 1,018 | 438 | 41 | 154 | 2,768 | 2,009 | 7,703 | 7,683 | 7,701 | 14.9% | 13.4% | 14.6% |
| 24-Jun-08 | 12,562 | 200 | 839 | 258 | 914 | 984 | 1,206 | 14,773 | 4,150 | 1,185 | 1,491 | 440 | 55 | 125 | 3,165 | 2,299 | 7,438 | 7,679 | 7,890 | 17.7% | 15.3% | 16.5% |
| 25-Jun-08 | 12,551 | 200 | 842 | 253 | 938 | 912 | 1,195 | 14,784 | 4,200 | 1,184 | 1,014 | 448 | 61 | 122 | 2,707 | 2,363 | 7,877 | 7,742 | 7,698 | 14.5% | 15.7% | 16.7% |
| 26-Jun-08 | 12,120 | 200 | 860 | 286 | 939 | 923 | 1,187 | 14,405 | 4,200 | 998 | 1,013 | 446 | 68 | 125 | 2,514 | 2,295 | 7,691 | 7,744 | 7,698 | 13.5% | 15.2% | 16.0% |
| 27-Jun-08 | 11,925 | 200 | 837 | 320 | 999 | 941 | 1,181 | 14,281 | 4,250 | 987 | 1,020 | 433 | 66 | 123 | 2,497 | 2,072 | 7,534 | 7,775 | 7,692 | 13.6% | 13.9% | 14.3% |
| 28-Jun-08 | 11,639 | 200 | 812 | 320 | 1,026 | 956 | 1,174 | 13,997 | 4,250 | 974 | 1,021 | 423 | 50 | 120 | 2,488 | 2,005 | 7,259 | 7,664 | 7,676 | 13.9% | 13.7% | 13.8% |
| 29-Jun-08 | 12,118 | 200 | 792 | 321 | 980 | 971 | 1,168 | 14,411 | 4,300 | 1,019 | 1,020 | 406 | 50 | 123 | 2,518 | 2,014 | 7,593 | 7,585 | 7,673 | 13.8% | 13.8% | 13.8% |
| 30-Jun-08 | 12,569 | 200 | 785 | 286 | 1,003 | 988 | 1,164 | 14,843 | 4,300 | 1,189 | 1,535 | 411 | 117 | 114 | 3,132 | 2,253 | 7,411 | 7,543 | 7,665 | 17.6% | 15.1% | 15.3% |
| Total | 332,709 | 6,000 | 24,482 | 9,373 | 35,462 | 36,925 | 38,779 | 408,026 | 112,400 | 24,539 | 27,925 | 11,838 | 2,153 | 3,541 | 65,690 | 52,311 | 229,936 | 231,410 | 236,037 | 364.6% | 365.4% | 372.4% |
| Average | 11,090 | 200 | 816 | 312 | 1,182 | 1,231 | 1,293 | 13,601 | 3,747 | 818 | 931 | 395 | 72 | 118 | 2,190 | 1,744 | 7,665 | 7,714 | 236,037 | 12.2% | 12.2% | 12.4% |

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

July 2007

Estimated numbers are in bold italic print

| Date | DELTA INFLOW | | | | | | | | | DELTA EXPORTS | | | | | | | OUTFLOW INDEX | | | Export/Inflow | | |
|----------------|----------------------|--------------|----------------|----------------------|-------------------|---------------|----------------|----------------|---------------------------|----------------|--------------------------|----------------------------|--------------|---------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | Sacto R @Freeport | SRTP | Yolo + Misc | East Side Streams | S. Joaquin River@ | Vernalis | Total Delta | NDCU | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) | |
| | -prev day- | -prev wk- | -prev day- | -prev day- | -prev day- | Average | Average | | | | | | | | | | | | | | | Total Inflow |
| 1-Jul-07 | 18,552 | 209 | 658 | 313 | 1,224 | 1,299 | 1,288 | 20,956 | 4,300 | 6,668 | 3,926 | 418 | 76 | 136 | 11,072 | 7,099 | 5,584 | 7,349 | 5,584 | 50.2% | 36.3% | 41.1% |
| 2-Jul-07 | 19,165 | 209 | 658 | 332 | 1,288 | 1,287 | 1,293 | 21,652 | 4,300 | 6,382 | 4,452 | 426 | 110 | 133 | 11,281 | 8,952 | 6,071 | 7,196 | 5,827 | 49.5% | 42.9% | 50.5% |
| 3-Jul-07 | 19,933 | 208 | 657 | 325 | 1,297 | 1,243 | 1,191 | 22,420 | 4,350 | 5,339 | 4,442 | 428 | 82 | 135 | 10,261 | 10,402 | 7,809 | 7,291 | 6,488 | 43.3% | 47.6% | 57.3% |
| 4-Jul-07 | 20,001 | 208 | 652 | 295 | 987 | 1,190 | 1,133 | 22,143 | 4,350 | 5,593 | 4,385 | 431 | 86 | 135 | 10,458 | 10,197 | 7,335 | 7,298 | 6,700 | 44.7% | 45.8% | 54.8% |
| 5-Jul-07 | 19,563 | 207 | 652 | 312 | 960 | 1,143 | 1,103 | 21,694 | 4,400 | 5,611 | 4,440 | 430 | 60 | 134 | 10,555 | 9,937 | 6,740 | 7,205 | 6,708 | 46.1% | 44.6% | 52.4% |
| 6-Jul-07 | 18,367 | 207 | 652 | 324 | 983 | 1,104 | 1,084 | 20,533 | 4,400 | 5,830 | 4,358 | 386 | 75 | 132 | 10,631 | 10,072 | 5,502 | 6,898 | 6,507 | 49.3% | 46.6% | 52.4% |
| 7-Jul-07 | 17,706 | 206 | 649 | 325 | 989 | 1,062 | 1,062 | 19,875 | 4,400 | 5,025 | 4,346 | 403 | 71 | 127 | 9,831 | 9,870 | 5,645 | 6,384 | 6,384 | 46.8% | 47.3% | 50.8% |
| 8-Jul-07 | 17,819 | 206 | 635 | 344 | 929 | 1,013 | 1,048 | 19,933 | 4,400 | 5,780 | 4,344 | 425 | 60 | 121 | 10,610 | 9,894 | 4,923 | 6,289 | 6,201 | 50.5% | 48.9% | 50.2% |
| 9-Jul-07 | 17,616 | 206 | 621 | 332 | 948 | 977 | 1,047 | 19,723 | 4,400 | 5,990 | 4,354 | 442 | 10 | 117 | 10,893 | 9,947 | 4,430 | 6,055 | 6,004 | 52.4% | 49.9% | 50.0% |
| 10-Jul-07 | 17,300 | 206 | 613 | 313 | 1,045 | 969 | 1,036 | 19,477 | 4,400 | 5,990 | 4,406 | 436 | 84 | 128 | 10,877 | 10,288 | 4,200 | 5,539 | 5,824 | 53.0% | 51.9% | 51.3% |
| 11-Jul-07 | 17,888 | 206 | 604 | 301 | 929 | 974 | 1,032 | 19,928 | 4,400 | 6,661 | 4,385 | 434 | 59 | 128 | 11,549 | 10,595 | 3,979 | 5,060 | 5,656 | 55.1% | 53.5% | 52.2% |
| 12-Jul-07 | 18,139 | 206 | 608 | 304 | 992 | 978 | 1,030 | 20,249 | 4,400 | 6,456 | 4,386 | 416 | 79 | 124 | 11,303 | 10,761 | 4,546 | 4,746 | 5,564 | 53.2% | 53.7% | 52.4% |
| 13-Jul-07 | 19,317 | 206 | 595 | 306 | 1,013 | 981 | 1,029 | 21,437 | 4,400 | 5,946 | 4,391 | 412 | 0 | 126 | 10,874 | 10,741 | 6,163 | 4,841 | 5,610 | 48.2% | 52.1% | 51.7% |
| 14-Jul-07 | 19,739 | 206 | 578 | 302 | 1,011 | 999 | 1,030 | 21,836 | 4,400 | 6,927 | 4,365 | 407 | 50 | 130 | 11,779 | 10,823 | 5,657 | 4,843 | 5,613 | 51.5% | 50.9% | 51.7% |
| 15-Jul-07 | 19,418 | 206 | 555 | 319 | 1,053 | 1,016 | 1,033 | 21,551 | 4,400 | 7,158 | 4,354 | 419 | 50 | 132 | 12,012 | 11,047 | 5,739 | 4,873 | 5,582 | 53.2% | 51.0% | 52.7% |
| 16-Jul-07 | 19,763 | 206 | 541 | 342 | 1,069 | 1,024 | 1,037 | 21,921 | 4,400 | 7,147 | 4,353 | 422 | 197 | 132 | 11,857 | 11,435 | 5,664 | 5,050 | 5,587 | 51.6% | 52.1% | 54.2% |
| 17-Jul-07 | 19,535 | 206 | 539 | 330 | 1,102 | 1,034 | 1,035 | 21,712 | 4,400 | 7,163 | 4,376 | 431 | 79 | 128 | 12,019 | 11,517 | 5,293 | 5,206 | 5,569 | 52.8% | 52.5% | 54.7% |
| 18-Jul-07 | 19,905 | 206 | 529 | 286 | 997 | 1,027 | 1,030 | 21,923 | 4,400 | 7,167 | 4,382 | 427 | 80 | 121 | 12,017 | 11,529 | 5,506 | 5,424 | 5,566 | 52.3% | 52.2% | 54.7% |
| 19-Jul-07 | 19,708 | 206 | 556 | 275 | 946 | 1,024 | 1,028 | 21,691 | 4,400 | 6,960 | 4,367 | 432 | 54 | 112 | 11,816 | 11,472 | 5,475 | 5,557 | 5,561 | 52.0% | 52.4% | 54.7% |
| 20-Jul-07 | 19,763 | 206 | 521 | 279 | 988 | 1,017 | 1,024 | 21,757 | 4,350 | 7,178 | 4,363 | 414 | 53 | 126 | 12,029 | 11,472 | 5,378 | 5,445 | 5,552 | 52.8% | 52.4% | 54.5% |
| 21-Jul-07 | 19,960 | 206 | 519 | 292 | 963 | 1,001 | 1,020 | 21,940 | 4,350 | 6,274 | 4,391 | 238 | 50 | 131 | 10,984 | 11,178 | 6,606 | 5,580 | 5,602 | 48.4% | 51.0% | 52.8% |
| 22-Jul-07 | 20,370 | 206 | 525 | 314 | 941 | 995 | 1,021 | 22,356 | 4,350 | 7,160 | 4,379 | 207 | 50 | 131 | 11,827 | 11,248 | 6,179 | 5,729 | 5,628 | 51.4% | 50.9% | 52.7% |
| 23-Jul-07 | 20,302 | 206 | 528 | 327 | 1,030 | 986 | 1,022 | 22,393 | 4,350 | 7,175 | 4,385 | 241 | 114 | 128 | 11,814 | 11,255 | 6,229 | 5,810 | 5,655 | 51.1% | 50.3% | 52.2% |
| 24-Jul-07 | 19,958 | 206 | 548 | 311 | 1,036 | 1,006 | 1,027 | 22,059 | 4,350 | 7,170 | 4,418 | 238 | 58 | 128 | 11,896 | 11,562 | 5,813 | 5,884 | 5,661 | 52.3% | 51.6% | 53.1% |
| 25-Jul-07 | 19,300 | 206 | 536 | 286 | 1,140 | 1,034 | 1,031 | 21,468 | 4,300 | 6,584 | 4,458 | 239 | 58 | 125 | 11,348 | 11,397 | 5,820 | 5,929 | 5,667 | 51.2% | 51.5% | 52.1% |
| 26-Jul-07 | 18,887 | 206 | 536 | 291 | 1,140 | 1,050 | 1,034 | 21,060 | 4,300 | 7,084 | 4,443 | 223 | 60 | 126 | 11,816 | 11,386 | 4,944 | 5,853 | 5,640 | 54.4% | 52.8% | 52.0% |
| 27-Jul-07 | 18,652 | 206 | 536 | 287 | 1,100 | 1,061 | 1,034 | 20,781 | 4,300 | 7,177 | 4,467 | 214 | 64 | 132 | 11,926 | 11,404 | 4,555 | 5,735 | 5,600 | 55.7% | 53.8% | 52.2% |
| 28-Jul-07 | 18,490 | 206 | 532 | 288 | 1,040 | 1,072 | 1,033 | 20,556 | 4,250 | 7,125 | 4,427 | 218 | 60 | 126 | 11,836 | 11,574 | 4,470 | 5,430 | 5,559 | 55.9% | 55.4% | 53.2% |
| 29-Jul-07 | 18,430 | 206 | 528 | 288 | 1,019 | 1,078 | 1,035 | 20,471 | 4,250 | 7,144 | 4,464 | 217 | 76 | 126 | 11,876 | 11,601 | 4,345 | 5,168 | 5,517 | 56.3% | 56.0% | 53.5% |
| 30-Jul-07 | 18,449 | 206 | 526 | 276 | 1,071 | 1,085 | 1,036 | 20,528 | 4,250 | 7,186 | 4,434 | 239 | 52 | 126 | 11,933 | 11,593 | 4,345 | 4,899 | 5,478 | 56.4% | 56.2% | 53.7% |
| 31-Jul-07 | 18,049 | 206 | 543 | 268 | 1,082 | 1,066 | 1,036 | 20,148 | 4,200 | 7,173 | 4,420 | 231 | 66 | 119 | 11,878 | 11,607 | 4,070 | 4,650 | 5,433 | 57.2% | 56.5% | 54.0% |
| Total | 590,044 | 6,398 | 17,930 | 9,487 | 32,312 | 32,795 | 32,919 | 656,171 | 134,900 | 204,222 | 135,862 | 10,944 | 2,124 | 3,951 | 352,855 | 333,858 | 168,416 | 179,215 | 179,526 | 1598.5% | 1570.3% | 1625.7% |
| Average | 19,034 | 206 | 578 | 306 | 1,042 | 1,058 | 1,062 | 21,167 | 4,352 | 6,588 | 4,383 | 353 | 69 | 127 | 11,382 | 10,770 | 5,433 | 5,781 | 5,781 | 51.6% | 50.7% | 52.4% |

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

August 2007

Estimated numbers are in bold italic print

| Date | DELTA INFLOW | | | | | | | | | DELTA EXPORTS | | | | | | | OUTFLOW INDEX | | | Export/Inflow | | |
|-----------|------------------------------------|-------------------|------------------------------|------------------------------------|---|------------------|--------------------|--------------------------|---------|---------------------------|----------------|--------------------------|----------------------------|-------|---------------------------|---------------------------|---------------|--------------|----------------|---------------|--------------|---------------|
| | Sacto R @Freeport -prev day- | SRTP -prev wk- | Yolo + Misc -prev day- | East Side Streams -prev day- | S. Joaquin River@Vernalis -prev day- | 7-day Average | Monthly Average | Total Delta Inflow | NDCU | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) |
| 1-Aug-07 | 17,397 | 206 | 528 | 300 | 1,013 | 1,033 | 906 | 19,444 | 4,200 | 7,144 | 4,413 | 230 | 42 | 119 | 11,865 | 11,590 | 3,379 | 4,301 | 3,379 | 59.2% | 57.6% | 54.4% |
| 2-Aug-07 | 17,218 | 206 | 525 | 312 | 905 | 1,016 | 942 | 19,166 | 4,200 | 7,173 | 4,458 | 242 | 87 | 127 | 11,912 | 11,594 | 3,054 | 4,031 | 3,216 | 60.2% | 58.9% | 54.9% |
| 3-Aug-07 | 16,959 | 207 | 534 | 327 | 979 | 1,006 | 952 | 19,006 | 4,150 | 7,164 | 4,459 | 238 | 53 | 127 | 11,934 | 11,604 | 2,921 | 3,798 | 3,118 | 60.9% | 60.1% | 55.5% |
| 4-Aug-07 | 17,347 | 207 | 553 | 335 | 973 | 1,011 | 978 | 19,415 | 4,150 | 5,959 | 4,452 | 256 | 50 | 128 | 10,744 | 11,222 | 4,521 | 3,805 | 3,469 | 53.4% | 58.1% | 54.1% |
| 5-Aug-07 | 17,138 | 207 | 557 | 365 | 1,056 | 1,018 | 1,006 | 19,323 | 4,100 | 7,167 | 4,459 | 215 | 50 | 125 | 11,915 | 11,220 | 3,308 | 3,657 | 3,437 | 59.9% | 58.0% | 54.7% |
| 6-Aug-07 | 16,574 | 207 | 559 | 389 | 1,116 | 1,018 | 1,019 | 18,845 | 4,100 | 7,171 | 4,385 | 199 | 0 | 123 | 11,877 | 11,197 | 2,868 | 3,446 | 3,342 | 61.3% | 58.2% | 55.4% |
| 7-Aug-07 | 17,508 | 208 | 550 | 372 | 1,087 | 1,026 | 1,026 | 19,725 | 4,050 | 7,178 | 4,372 | 204 | 50 | 123 | 11,827 | 11,577 | 3,848 | 3,414 | 3,414 | 58.3% | 59.8% | 57.7% |
| 8-Aug-07 | 17,579 | 208 | 533 | 317 | 1,069 | 1,051 | 1,033 | 19,706 | 4,050 | 7,172 | 4,434 | 212 | 69 | 126 | 11,875 | 11,570 | 3,781 | 3,472 | 3,460 | 58.5% | 59.4% | 58.0% |
| 9-Aug-07 | 17,333 | 208 | 515 | 292 | 1,077 | 1,070 | 1,041 | 19,425 | 4,000 | 7,171 | 4,461 | 203 | 59 | 124 | 11,900 | 11,596 | 3,525 | 3,539 | 3,467 | 59.6% | 58.8% | 58.4% |
| 10-Aug-07 | 17,901 | 208 | 571 | 318 | 1,110 | 1,083 | 1,044 | 20,108 | 4,000 | 7,169 | 4,444 | 191 | 74 | 130 | 11,860 | 11,617 | 4,248 | 3,729 | 3,545 | 57.4% | 58.5% | 58.6% |
| 11-Aug-07 | 18,316 | 208 | 621 | 324 | 1,068 | 1,072 | 1,038 | 20,537 | 3,950 | 6,573 | 4,430 | 175 | 76 | 126 | 11,229 | 11,416 | 5,358 | 3,848 | 3,710 | 53.2% | 56.7% | 57.6% |
| 12-Aug-07 | 18,092 | 208 | 621 | 344 | 975 | 1,055 | 1,035 | 20,240 | 3,950 | 7,155 | 4,423 | 152 | 50 | 125 | 11,805 | 11,398 | 4,485 | 4,016 | 3,775 | 57.0% | 55.8% | 57.6% |
| 13-Aug-07 | 18,417 | 208 | 627 | 355 | 1,001 | 1,051 | 1,036 | 20,608 | 3,900 | 7,164 | 4,373 | 130 | 65 | 125 | 11,726 | 11,373 | 4,982 | 4,318 | 3,868 | 55.7% | 55.3% | 57.4% |
| 14-Aug-07 | 18,721 | 208 | 640 | 330 | 1,056 | 1,041 | 1,034 | 20,955 | 3,850 | 7,177 | 4,422 | 155 | 42 | 122 | 11,833 | 11,571 | 5,272 | 4,522 | 3,968 | 55.1% | 55.9% | 58.3% |
| 15-Aug-07 | 18,489 | 208 | 642 | 316 | 1,002 | 1,019 | 1,026 | 20,657 | 3,850 | 7,187 | 4,441 | 155 | 32 | 122 | 11,872 | 11,588 | 4,935 | 4,687 | 4,032 | 56.1% | 55.6% | 58.2% |
| 16-Aug-07 | 18,438 | 208 | 654 | 318 | 919 | 986 | 1,017 | 20,537 | 3,800 | 7,174 | 4,453 | 137 | 57 | 126 | 11,833 | 11,618 | 4,904 | 4,884 | 4,087 | 56.3% | 55.9% | 58.1% |
| 17-Aug-07 | 18,274 | 208 | 665 | 314 | 878 | 963 | 1,011 | 20,339 | 3,800 | 7,175 | 4,443 | 132 | 81 | 127 | 11,795 | 11,624 | 4,744 | 4,954 | 4,126 | 56.7% | 56.4% | 57.7% |
| 18-Aug-07 | 17,756 | 208 | 661 | 322 | 909 | 963 | 1,009 | 19,856 | 3,750 | 7,167 | 4,444 | 126 | 53 | 122 | 11,806 | 11,618 | 4,300 | 4,803 | 4,135 | 58.2% | 57.1% | 57.6% |
| 19-Aug-07 | 16,743 | 208 | 646 | 320 | 975 | 963 | 1,008 | 18,892 | 3,700 | 7,176 | 4,420 | 123 | 50 | 123 | 11,792 | 11,608 | 3,400 | 4,648 | 4,097 | 61.1% | 58.6% | 57.6% |
| 20-Aug-07 | 16,887 | 208 | 629 | 326 | 1,004 | 965 | 1,011 | 19,054 | 3,700 | 7,171 | 4,313 | 124 | 0 | 122 | 11,729 | 11,564 | 3,625 | 4,454 | 4,073 | 60.3% | 59.8% | 57.5% |
| 21-Aug-07 | 16,819 | 208 | 640 | 302 | 1,069 | 973 | 1,013 | 19,038 | 3,650 | 7,168 | 4,391 | 114 | 12 | 123 | 11,784 | 11,547 | 3,604 | 4,216 | 4,051 | 60.7% | 60.7% | 57.6% |
| 22-Aug-07 | 16,281 | 208 | 642 | 286 | 1,054 | 980 | 1,012 | 18,471 | 3,600 | 7,173 | 4,446 | 108 | 42 | 128 | 11,812 | 11,554 | 3,059 | 3,948 | 4,006 | 62.7% | 61.2% | 57.9% |
| 23-Aug-07 | 16,202 | 208 | 655 | 292 | 972 | 999 | 1,011 | 18,329 | 3,600 | 7,169 | 4,429 | 94 | 53 | 129 | 11,767 | 11,592 | 2,962 | 3,671 | 3,960 | 63.0% | 62.1% | 58.3% |
| 24-Aug-07 | 16,226 | 208 | 661 | 285 | 1,008 | 1,017 | 1,013 | 18,388 | 3,550 | 7,171 | 4,488 | 87 | 54 | 129 | 11,821 | 11,625 | 3,017 | 3,424 | 3,921 | 63.1% | 62.9% | 58.7% |
| 25-Aug-07 | 16,341 | 208 | 670 | 296 | 1,040 | 1,025 | 1,013 | 18,555 | 3,500 | 5,996 | 4,392 | 87 | 50 | 125 | 10,549 | 11,215 | 4,506 | 3,453 | 3,944 | 55.7% | 60.6% | 57.0% |
| 26-Aug-07 | 16,354 | 208 | 666 | 321 | 1,029 | 1,035 | 1,016 | 18,578 | 3,450 | 5,998 | 4,408 | 84 | 50 | 127 | 10,567 | 10,818 | 4,561 | 3,619 | 3,968 | 55.7% | 58.2% | 55.4% |
| 27-Aug-07 | 16,297 | 208 | 639 | 318 | 1,073 | 1,035 | 1,017 | 18,535 | 3,450 | 5,502 | 4,381 | 84 | 0 | 123 | 10,090 | 10,226 | 4,985 | 3,815 | 4,006 | 53.3% | 54.9% | 52.8% |
| 28-Aug-07 | 16,117 | 208 | 606 | 305 | 1,066 | 1,017 | 1,014 | 18,302 | 3,400 | 5,494 | 4,372 | 77 | 46 | 120 | 10,017 | 10,052 | 4,885 | 3,998 | 4,037 | 53.7% | 54.2% | 52.4% |
| 29-Aug-07 | 15,997 | 208 | 603 | 299 | 934 | 1,009 | 1,011 | 18,041 | 3,350 | 5,490 | 4,417 | 76 | 27 | 126 | 10,082 | 9,886 | 4,609 | 4,219 | 4,057 | 54.8% | 53.9% | 52.1% |
| 30-Aug-07 | 15,928 | 208 | 581 | 273 | 915 | 996 | 1,008 | 17,905 | 3,300 | 5,488 | 4,443 | 72 | 55 | 125 | 10,072 | 9,901 | 4,533 | 4,444 | 4,073 | 55.2% | 54.5% | 52.6% |
| 31-Aug-07 | 16,000 | 208 | 587 | 291 | 918 | 977 | 1,005 | 18,004 | 3,250 | 5,496 | 4,394 | 74 | 62 | 133 | 10,035 | 9,909 | 4,719 | 4,687 | 4,084 | 54.6% | 54.8% | 53.1% |
| Total | 531,649 | 6,440 | 18,781 | 9,864 | 31,250 | 31,474 | 31,305 | 597,984 | 117,350 | 209,731 | 137,059 | 4,555 | 1,494 | 3,871 | 353,723 | 348,489 | 126,911 | 125,821 | 117,836 | 1790.9% | 1792.5% | 1747.5% |
| Average | 17,150 | 208 | 606 | 318 | 1,008 | 1,015 | 1,010 | 19,290 | 3,785 | 6,766 | 4,421 | 147 | 48 | 125 | 11,410 | 11,242 | 4,094 | 4,059 | | 57.8% | 57.8% | 56.4% |

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

September 2007

Estimated numbers are in bold italic print

| Date | DELTA INFLOW | | | | | | | | NDCU | DELTA EXPORTS | | | | | | OUTFLOW INDEX | | | Export/Inflow | | | |
|----------------|------------------------------------|-------------------|------------------------------|------------------------------------|---|---------------|--------------------|--------------------------|---------------|---------------------------|----------------|--------------------------|----------------------------|--------------|---------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | Sacto R @Freeport -prev day- | SRTP -prev wk- | Yolo + Misc -prev day- | East Side Streams -prev day- | S. Joaquin River@Vernalis 7-day Average | | Monthly Average | Total Delta Inflow | | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) |
| 1-Sep-07 | 16,200 | 208 | 589 | 310 | 905 | 962 | 924 | 18,212 | 3,200 | 5,989 | 4,373 | 80 | 50 | 130 | 10,522 | 10,061 | 4,490 | 4,685 | 4,490 | 56.6% | 55.5% | 54.2% |
| 2-Sep-07 | 16,500 | 208 | 610 | 323 | 924 | 948 | 948 | 18,565 | 3,200 | 5,989 | 4,379 | 83 | 50 | 128 | 10,529 | 10,207 | 4,836 | 4,724 | 4,663 | 55.6% | 55.6% | 55.1% |
| 3-Sep-07 | 16,800 | 207 | 610 | 336 | 971 | 953 | 999 | 18,924 | 3,150 | 5,988 | 4,367 | 83 | 50 | 128 | 10,514 | 10,361 | 5,260 | 4,762 | 4,862 | 54.4% | 55.5% | 56.0% |
| 4-Sep-07 | 16,300 | 207 | 590 | 326 | 1,103 | 963 | 1,002 | 18,526 | 3,100 | 5,990 | 4,365 | 70 | 36 | 130 | 10,518 | 10,359 | 4,908 | 4,765 | 4,874 | 55.7% | 55.2% | 56.1% |
| 5-Sep-07 | 16,000 | 207 | 566 | 318 | 1,008 | 968 | 991 | 18,099 | 3,050 | 5,991 | 4,350 | 64 | 34 | 130 | 10,501 | 10,350 | 4,548 | 4,756 | 4,808 | 56.9% | 55.7% | 56.2% |
| 6-Sep-07 | 16,500 | 207 | 549 | 314 | 950 | 979 | 992 | 18,520 | 3,000 | 5,985 | 4,405 | 60 | 55 | 127 | 10,522 | 10,362 | 4,997 | 4,823 | 4,840 | 55.8% | 56.1% | 56.2% |
| 7-Sep-07 | 16,862 | 206 | 515 | 291 | 993 | 997 | 997 | 18,867 | 2,950 | 5,989 | 4,386 | 62 | 50 | 127 | 10,513 | 10,369 | 5,405 | 4,921 | 4,921 | 54.7% | 55.8% | 56.1% |
| 8-Sep-07 | 16,856 | 206 | 533 | 264 | 1,027 | 1,012 | 1,001 | 18,886 | 2,900 | 5,990 | 4,361 | 63 | 50 | 129 | 10,493 | 10,372 | 5,493 | 5,064 | 4,992 | 54.5% | 55.0% | 56.0% |
| 9-Sep-07 | 17,220 | 206 | 521 | 236 | 1,035 | 1,022 | 1,005 | 19,218 | 2,900 | 5,989 | 4,406 | 75 | 38 | 125 | 10,557 | 10,374 | 5,761 | 5,196 | 5,077 | 53.9% | 54.4% | 55.9% |
| 10-Sep-07 | 17,040 | 206 | 508 | 240 | 1,036 | 1,015 | 1,010 | 19,030 | 2,850 | 5,993 | 4,319 | 71 | 50 | 126 | 10,458 | 10,353 | 5,722 | 5,262 | 5,142 | 53.9% | 54.1% | 55.7% |
| 11-Sep-07 | 17,106 | 206 | 505 | 241 | 1,053 | 1,012 | 1,008 | 19,111 | 2,800 | 5,991 | 4,407 | 66 | 35 | 124 | 10,553 | 10,369 | 5,758 | 5,383 | 5,198 | 54.2% | 54.0% | 55.6% |
| 12-Sep-07 | 16,801 | 206 | 500 | 235 | 991 | 1,015 | 1,005 | 18,733 | 2,750 | 4,992 | 4,352 | 63 | 15 | 116 | 9,508 | 10,018 | 6,475 | 5,659 | 5,304 | 49.8% | 52.7% | 53.6% |
| 13-Sep-07 | 16,049 | 206 | 474 | 232 | 970 | 1,009 | 1,001 | 17,931 | 2,700 | 4,992 | 4,358 | 63 | 53 | 116 | 9,477 | 9,698 | 5,754 | 5,767 | 5,339 | 51.8% | 52.0% | 51.9% |
| 14-Sep-07 | 16,746 | 206 | 453 | 238 | 953 | 994 | 995 | 18,596 | 2,650 | 4,999 | 4,328 | 63 | 27 | 113 | 9,476 | 9,340 | 6,470 | 5,919 | 5,420 | 50.0% | 50.5% | 49.9% |
| 15-Sep-07 | 16,606 | 206 | 429 | 235 | 920 | 986 | 994 | 18,396 | 2,600 | 4,993 | 4,363 | 59 | 25 | 115 | 9,504 | 9,344 | 6,292 | 6,033 | 5,478 | 50.7% | 50.8% | 49.9% |
| 16-Sep-07 | 15,970 | 206 | 424 | 239 | 980 | 983 | 995 | 17,819 | 2,600 | 4,985 | 4,328 | 60 | 30 | 114 | 9,456 | 9,332 | 5,763 | 6,033 | 5,496 | 52.1% | 50.9% | 50.0% |
| 17-Sep-07 | 16,316 | 206 | 399 | 234 | 1,011 | 980 | 997 | 18,166 | 2,550 | 4,486 | 4,005 | 55 | 62 | 117 | 8,601 | 9,053 | 7,015 | 6,218 | 5,585 | 46.4% | 49.7% | 48.6% |
| 18-Sep-07 | 15,977 | 206 | 385 | 208 | 1,032 | 977 | 996 | 17,808 | 2,500 | 4,484 | 4,157 | 56 | 23 | 118 | 8,792 | 8,815 | 6,516 | 6,327 | 5,637 | 48.4% | 48.9% | 47.4% |
| 19-Sep-07 | 15,363 | 206 | 433 | 181 | 971 | 972 | 993 | 17,154 | 2,450 | 4,490 | 4,342 | 56 | 45 | 120 | 8,963 | 8,655 | 5,741 | 6,222 | 5,642 | 51.2% | 48.6% | 46.7% |
| 20-Sep-07 | 14,877 | 206 | 467 | 174 | 938 | 968 | 990 | 16,663 | 2,450 | 4,496 | 4,300 | 57 | 25 | 106 | 8,333 | 8,756 | 5,280 | 6,154 | 5,624 | 52.6% | 50.7% | 47.6% |
| 21-Sep-07 | 15,828 | 206 | 447 | 185 | 926 | 968 | 986 | 17,592 | 2,400 | 4,495 | 4,356 | 62 | 3 | 104 | 9,014 | 8,826 | 6,178 | 6,112 | 5,651 | 50.3% | 51.4% | 48.3% |
| 22-Sep-07 | 15,321 | 206 | 417 | 181 | 920 | 964 | 985 | 17,045 | 2,350 | 5,490 | 4,271 | 76 | 15 | 105 | 9,927 | 9,136 | 4,768 | 5,895 | 5,610 | 57.2% | 53.3% | 50.4% |
| 23-Sep-07 | 14,907 | 206 | 364 | 199 | 950 | 976 | 990 | 16,626 | 1,209 | 5,034 | 4,287 | 79 | 25 | 100 | 9,476 | 9,311 | 5,941 | 5,920 | 5,625 | 55.9% | 54.4% | 51.9% |
| 24-Sep-07 | 14,547 | 206 | 316 | 190 | 1,096 | 992 | 996 | 16,355 | 1,159 | 4,494 | 4,294 | 96 | 0 | 99 | 8,983 | 9,290 | 6,213 | 5,805 | 5,649 | 53.7% | 55.6% | 52.4% |
| 25-Sep-07 | 14,395 | 206 | 281 | 186 | 1,139 | 1,012 | 1,001 | 16,207 | 1,109 | 5,499 | 4,325 | 95 | 15 | 101 | 10,005 | 9,311 | 5,093 | 5,602 | 5,627 | 60.5% | 56.7% | 53.1% |
| 26-Sep-07 | 14,306 | 206 | 250 | 190 | 1,115 | 1,026 | 1,002 | 16,067 | 1,109 | 5,493 | 4,340 | 123 | 13 | 93 | 10,036 | 9,482 | 4,922 | 5,485 | 5,600 | 61.1% | 58.4% | 54.7% |
| 27-Sep-07 | 13,849 | 206 | 278 | 189 | 1,034 | 1,037 | 1,002 | 15,556 | 1,059 | 5,975 | 4,358 | 147 | 12 | 107 | 10,577 | 9,997 | 3,920 | 5,291 | 5,538 | 66.4% | 62.6% | 58.2% |
| 28-Sep-07 | 13,296 | 206 | 330 | 187 | 1,003 | 1,055 | 1,004 | 15,022 | 2,200 | 5,493 | 4,318 | 155 | 22 | 114 | 10,058 | 9,992 | 2,764 | 4,803 | 5,439 | 65.2% | 64.2% | 59.1% |
| 29-Sep-07 | 11,997 | 206 | 438 | 185 | 1,051 | 1,081 | 1,008 | 13,877 | 2,150 | 3,968 | 4,300 | 154 | -20 | 147 | 8,549 | 9,471 | 3,178 | 4,576 | 5,361 | 59.4% | 63.8% | 57.1% |
| 30-Sep-07 | 12,707 | 206 | 446 | 184 | 1,132 | 1,091 | 1,013 | 14,675 | 2,150 | 5,489 | 4,303 | 149 | 0 | 99 | 10,040 | 9,290 | 2,485 | 4,082 | 5,265 | 66.7% | 63.9% | 56.8% |
| Total | 469,242 | 6,188 | 13,627 | 7,051 | 30,138 | 29,918 | 29,829 | 526,246 | 73,245 | 160,231 | 129,803 | 2,442 | 932 | 3,508 | 295,053 | 290,654 | 157,949 | 162,244 | 159,757 | 1656.0% | 1646.3% | 1600.6% |
| Average | 15,641 | 206 | 454 | 235 | 1,005 | 997 | 994 | 17,542 | 2,441 | 5,341 | 4,327 | 81 | 31 | 117 | 9,835 | 9,688 | 5,265 | 5,408 | | 55.2% | 54.9% | 53.4% |

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

October 2007

Estimated numbers are in bold italic print

| Date | DELTA INFLOW | | | | | | | | NDCU | DELTA EXPORTS | | | | | | | OUTFLOW INDEX | | | Export/Inflow | | |
|----------------|------------------------------------|-------------------|------------------------------|------------------------------------|---|------------------|--------------------|--------------------------|---------------|---------------------------|----------------|--------------------------|----------------------------|--------------|---------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | Sacto R @Freeport -prev day- | SRTP -prev wk- | Yolo + Misc -prev day- | East Side Streams -prev day- | S. Joaquin River@Vernalis -prev day- | 7-day Average | Monthly Average | Total Delta Inflow | | Clifton Court (CLT) | Tracy (TRA) | Contra Costa (CCC) | Byron Bethany (BBID) | NBA | Total Delta Exports | 3-day Avg TRA & CLT | NDOI daily | 7-day Avg | Monthly Avg | Daily (%) | 3 Day (%) | 14 Day (%) |
| 1-Oct-07 | 12,207 | 206 | 393 | 180 | 1,166 | 1,107 | 1,248 | 14,152 | 2,150 | 4,497 | 4,322 | 148 | 0 | 76 | 9,042 | 8,959 | 2,960 | 3,618 | 2,960 | 62.3% | 62.9% | 55.8% |
| 2-Oct-07 | 12,176 | 205 | 345 | 810 | 1,248 | 1,116 | 1,212 | 14,784 | 2,700 | 4,494 | 4,331 | 147 | 18 | 54 | 9,009 | 9,145 | 3,675 | 3,415 | 3,318 | 59.8% | 62.9% | 57.7% |
| 3-Oct-07 | 12,011 | 204 | 300 | 483 | 1,175 | 1,130 | 1,187 | 14,173 | 2,050 | 3,995 | 4,323 | 104 | 16 | 66 | 8,472 | 8,654 | 3,651 | 3,233 | 3,429 | 58.6% | 60.1% | 55.3% |
| 4-Oct-07 | 11,794 | 203 | 276 | 328 | 1,138 | 1,146 | 1,169 | 13,739 | 2,050 | 3,498 | 4,274 | 147 | 7 | 79 | 7,991 | 8,305 | 3,698 | 3,202 | 3,496 | 56.5% | 58.3% | 53.8% |
| 5-Oct-07 | 11,793 | 202 | 269 | 310 | 1,113 | 1,149 | 1,149 | 13,687 | 2,000 | 3,498 | 4,263 | 131 | 24 | 94 | 7,961 | 7,950 | 3,726 | 3,339 | 3,542 | 56.5% | 57.2% | 52.4% |
| 6-Oct-07 | 12,385 | 201 | 265 | 292 | 1,073 | 1,149 | 1,146 | 14,216 | 2,000 | 2,991 | 4,357 | 112 | 0 | 95 | 7,556 | 7,627 | 4,660 | 3,551 | 3,728 | 51.7% | 54.9% | 51.0% |
| 7-Oct-07 | 11,917 | 200 | 305 | 289 | 1,131 | 1,155 | 1,155 | 13,842 | 1,950 | 2,998 | 4,345 | 111 | 15 | 75 | 7,513 | 7,484 | 4,379 | 3,821 | 3,821 | 52.9% | 53.7% | 50.7% |
| 8-Oct-07 | 11,575 | 199 | 313 | 258 | 1,209 | 1,150 | 1,162 | 13,554 | 1,950 | 2,995 | 4,270 | 112 | 50 | 68 | 7,395 | 7,319 | 4,209 | 4,000 | 3,870 | 53.2% | 52.6% | 50.2% |
| 9-Oct-07 | 11,464 | 199 | 314 | 250 | 1,209 | 1,145 | 1,160 | 13,436 | 1,950 | 2,992 | 4,276 | 111 | 0 | 60 | 7,439 | 7,292 | 4,047 | 4,053 | 3,889 | 54.1% | 53.4% | 50.7% |
| 10-Oct-07 | 10,750 | 198 | 306 | 250 | 1,143 | 1,139 | 1,154 | 12,648 | 1,900 | 2,990 | 4,257 | 111 | 12 | 58 | 7,404 | 7,260 | 3,344 | 4,009 | 3,835 | 57.2% | 54.8% | 51.4% |
| 11-Oct-07 | 11,540 | 199 | 286 | 270 | 1,097 | 1,139 | 1,150 | 13,392 | 302 | 3,498 | 4,259 | 113 | 8 | 58 | 7,921 | 7,424 | 5,169 | 4,219 | 3,956 | 57.9% | 56.4% | 53.2% |
| 12-Oct-07 | 11,629 | 199 | 225 | 253 | 1,112 | 1,149 | 1,149 | 13,418 | 302 | 3,486 | 4,230 | 111 | 6 | 47 | 7,869 | 7,573 | 5,247 | 4,436 | 4,064 | 57.5% | 57.5% | 54.7% |
| 13-Oct-07 | 10,750 | 199 | 196 | 264 | 1,145 | 1,182 | 1,165 | 12,554 | -1,751 | 3,489 | 4,181 | 112 | 5 | 43 | 7,820 | 7,714 | 6,485 | 4,697 | 4,250 | 61.1% | 58.7% | 56.1% |
| 14-Oct-07 | 10,632 | 199 | 147 | 265 | 1,356 | 1,211 | 1,183 | 12,599 | -1,801 | 3,497 | 4,202 | 111 | 0 | 63 | 7,873 | 7,695 | 6,527 | 5,004 | 4,413 | 61.1% | 59.8% | 56.6% |
| 15-Oct-07 | 10,515 | 199 | 112 | 255 | 1,412 | 1,238 | 1,197 | 12,493 | -1,801 | 3,498 | 4,290 | 103 | 4 | 80 | 7,967 | 7,719 | 6,327 | 5,306 | 4,540 | 62.3% | 61.5% | 57.3% |
| 16-Oct-07 | 9,880 | 199 | 102 | 252 | 1,400 | 1,268 | 1,207 | 11,833 | -204 | 2,996 | 4,222 | 96 | 7 | 65 | 7,371 | 7,569 | 4,666 | 5,395 | 4,548 | 60.9% | 61.5% | 57.1% |
| 17-Oct-07 | 9,858 | 199 | 86 | 248 | 1,357 | 1,309 | 1,218 | 11,748 | -432 | 2,987 | 4,225 | 83 | 5 | 63 | 7,352 | 7,406 | 4,829 | 5,607 | 4,565 | 61.3% | 61.5% | 56.6% |
| 18-Oct-07 | 10,330 | 199 | 20 | 250 | 1,384 | 1,378 | 1,238 | 12,183 | 1,572 | 3,489 | 4,212 | 82 | 8 | 64 | 7,840 | 7,377 | 2,771 | 5,264 | 4,465 | 63.2% | 61.8% | 56.8% |
| 19-Oct-07 | 10,608 | 199 | 20 | 253 | 1,589 | 1,461 | 1,264 | 12,669 | 1,572 | 3,492 | 4,251 | 93 | 6 | 69 | 7,900 | 7,552 | 3,197 | 4,972 | 4,398 | 61.1% | 61.9% | 58.5% |
| 20-Oct-07 | 10,175 | 199 | 0 | 263 | 1,726 | 1,510 | 1,286 | 12,363 | 1,572 | 2,987 | 4,247 | 93 | 0 | 72 | 7,398 | 7,560 | 3,393 | 4,530 | 4,348 | 58.5% | 60.9% | 59.2% |
| 21-Oct-07 | 10,306 | 199 | 0 | 275 | 1,703 | 1,550 | 1,305 | 12,483 | 1,572 | 2,981 | 4,238 | 91 | 0 | 54 | 7,364 | 7,399 | 3,547 | 4,104 | 4,310 | 57.8% | 59.2% | 58.4% |
| 22-Oct-07 | 10,068 | 199 | 0 | 277 | 1,688 | 1,591 | 1,323 | 12,232 | 1,800 | 2,990 | 4,209 | 104 | 0 | 73 | 7,376 | 7,217 | 3,056 | 3,637 | 4,253 | 58.9% | 58.4% | 57.4% |
| 23-Oct-07 | 10,372 | 199 | 0 | 271 | 1,690 | 1,638 | 1,338 | 12,532 | 1,750 | 2,498 | 4,220 | 112 | 24 | 82 | 6,888 | 7,045 | 3,894 | 3,527 | 4,237 | 53.4% | 56.7% | 56.3% |
| 24-Oct-07 | 10,401 | 199 | 0 | 259 | 1,683 | 1,685 | 1,354 | 12,542 | 1,750 | 2,498 | 4,278 | 126 | 10 | 91 | 6,984 | 6,898 | 3,808 | 3,381 | 4,219 | 54.0% | 55.4% | 55.1% |
| 25-Oct-07 | 9,940 | 199 | 0 | 251 | 1,716 | 1,720 | 1,373 | 12,106 | 1,750 | 2,495 | 4,241 | 135 | 14 | 98 | 6,955 | 6,743 | 3,401 | 3,471 | 4,187 | 55.5% | 54.3% | 54.2% |
| 26-Oct-07 | 9,597 | 199 | 0 | 269 | 1,834 | 1,752 | 1,395 | 11,899 | 1,750 | 2,495 | 4,253 | 121 | 8 | 103 | 6,965 | 6,754 | 3,184 | 3,469 | 4,148 | 56.6% | 55.4% | 54.8% |
| 27-Oct-07 | 9,414 | 199 | 0 | 285 | 1,951 | 1,821 | 1,425 | 11,849 | 1,750 | 1,992 | 4,202 | 101 | 0 | 103 | 6,398 | 6,559 | 3,701 | 3,513 | 4,131 | 52.3% | 54.8% | 53.5% |
| 28-Oct-07 | 9,385 | 199 | 0 | 284 | 2,186 | 1,909 | 1,456 | 12,054 | 1,750 | 1,994 | 4,202 | 114 | 0 | 95 | 6,405 | 6,379 | 3,899 | 3,563 | 4,123 | 51.4% | 53.4% | 52.2% |
| 29-Oct-07 | 9,953 | 199 | 0 | 290 | 2,302 | 1,997 | 1,485 | 12,744 | 1,700 | 2,497 | 4,253 | 81 | 17 | 106 | 6,920 | 6,380 | 4,124 | 3,716 | 4,123 | 52.8% | 52.2% | 52.1% |
| 30-Oct-07 | 8,951 | 199 | 0 | 283 | 2,304 | 2,083 | 1,512 | 11,737 | 1,700 | 2,498 | 4,257 | 106 | 13 | 106 | 6,954 | 6,567 | 3,083 | 3,600 | 4,088 | 57.4% | 53.8% | 53.6% |
| 31-Oct-07 | 9,788 | 199 | 4 | 273 | 2,290 | 2,172 | 1,539 | 12,554 | 1,700 | 2,991 | 4,200 | 115 | 7 | 99 | 7,398 | 6,899 | 3,456 | 3,550 | 4,068 | 57.2% | 55.8% | 56.1% |
| Total | 332,164 | 6,197 | 4,284 | 9,040 | 46,530 | 44,149 | 39,306 | 398,215 | 38,402 | 96,296 | 131,891 | 3,438 | 282 | 2,360 | 233,703 | 230,426 | 126,111 | 125,201 | 125,321 | 1774.9% | 1781.6% | 1698.6% |
| Average | 10,715 | 200 | 138 | 292 | 1,501 | 1,424 | 1,268 | 12,846 | 1,239 | 3,106 | 4,255 | 111 | 9 | 76 | 7,539 | 7,433 | 4,068 | 4,039 | | 57.3% | 57.5% | 54.8% |

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

MAY 2008

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: August 18, 2008

| DAY | ELEV | STORAGE | | COMPUTED* INFLOW C.F.S. | POWER | RELEASE - C.F.S. | | | EVAPORATION | | PRECIP INCHES |
|------------------|--------|-----------------|-------------------------|-------------------------------|---------------|------------------|----------|------------------|--------------|-------------|------------------|
| | | 1000 IN LAKE | ACRE- FEET CHANGE | | | RIVER SPILL | OUTLET | PUMPING PLANT | C.F.S. | INCHES | |
| 1 | 421.43 | 536.8 | +3.0 | 2,917 | 1,115 | 0 | 0 | 236 | 59 | .21 | .00 |
| 2 | 421.78 | 539.8 | +2.9 | 2,903 | 1,130 | 0 | 0 | 243 | 64 | .23 | .00 |
| 3 | 422.15 | 545.8 | +3.1 | 2,916 | 1,079 | 0 | 0 | 240 | 42 | .15 | .00 |
| 4 | 422.60 | 549.6 | +3.8 | 3,194 | 991 | 0 | 0 | 245 | 56 | .20 | .00 |
| 5 | 422.86 | 551.7 | +2.2 | 2,442 | 1,034 | 0 | 0 | 253 | 56 | .20 | .00 |
| 6 | 423.39 | 556.2 | +4.5 | 3,660 | 1,111 | 0 | 0 | 235 | 60 | .21 | .00 |
| 7 | 423.97 | 561.1 | +4.9 | 4,169 | 1,399 | 0 | 0 | 237 | 60 | .21 | .00 |
| 8 | 424.62 | 566.7 | +5.5 | 3,831 | 733 | 0 | 0 | 240 | 63 | .22 | .00 |
| 9 | 425.01 | 570.0 | +3.3 | 3,095 | 1,106 | 0 | 0 | 251 | 60 | .21 | .00 |
| 10 | 425.45 | 573.8 | +3.8 | 3,207 | 976 | 0 | 0 | 259 | 63 | .22 | .00 |
| 11 | 425.88 | 577.5 | +3.7 | 3,380 | 1,191 | 0 | 0 | 259 | 64 | .22 | .00 |
| 12 | 426.34 | 581.5 | +4.0 | 3,394 | 1,068 | 0 | 0 | 253 | 64 | .22 | .00 |
| 13 | 426.75 | 585.0 | +3.6 | 3,180 | 1,045 | 0 | 0 | 257 | 84 | .29 | .00 |
| 14 | 427.15 | 588.5 | +3.5 | 3,146 | 1,028 | 0 | 0 | 272 | 90 | .31 | .00 |
| 15 | 427.47 | 591.3 | +2.8 | 3,274 | 1,512 | 0 | 0 | 274 | 76 | .26 | .00 |
| 16 | 428.17 | 597.4 | +6.1 | 4,522 | 1,040 | 0 | 0 | 284 | 103 | .35 | .00 |
| 17 | 428.79 | 602.9 | +5.5 | 4,125 | 989 | 0 | 0 | 284 | 94 | .32 | .00 |
| 18 | 429.42 | 608.5 | +5.6 | 4,370 | 1,203 | 0 | 0 | 296 | 53 | .18 | .00 |
| 19 | 429.90 | 612.8 | +4.3 | 3,582 | 1,040 | 0 | 0 | 291 | 98 | .33 | .00 |
| 20 | 430.33 | 616.6 | +3.8 | 3,290 | 995 | 0 | 0 | 276 | 78 | .26 | .00 |
| 21 | 430.47 | 617.9 | +1.3 | 2,680 | 1,696 | 0 | 0 | 258 | 93 | .31 | .00 |
| 22 | 430.60 | 619.0 | +1.2 | 2,344 | 1,394 | 0 | 0 | 263 | 99 | .33 | .00 |
| 23 | 430.64 | 619.4 | +0.4 | 1,896 | 1,372 | 0 | 0 | 278 | 66 | .22 | .00 |
| 24 | 430.67 | 619.7 | +0.3 | 1,964 | 1,572 | 0 | 0 | 244 | 12 | .04 | .05 |
| 25 | 430.73 | 620.2 | +0.5 | 2,324 | 1,761 | 0 | 0 | 238 | 54 | .18 | .00 |
| 26 | 430.74 | 620.3 | +0.1 | 1,873 | 1,515 | 0 | 0 | 253 | 60 | .20 | .00 |
| 27 | 430.78 | 620.6 | +0.4 | 1,992 | 1,496 | 0 | 0 | 262 | 54 | .18 | .18 |
| 28 | 430.65 | 619.5 | -1.2 | 1,531 | 1,801 | 0 | 0 | 254 | 63 | .21 | .00 |
| 29 | 430.64 | 619.4 | -0.1 | 2,055 | 1,776 | 0 | 0 | 261 | 63 | .21 | .00 |
| 30 | 430.49 | 618.0 | -1.3 | 1,796 | 2,135 | 0 | 0 | 270 | 69 | .23 | .00 |
| 31 | 430.38 | 617.1 | -1.0 | 2,068 | 2,228 | 0 | 0 | 271 | 66 | .22 | .00 |
| TOTALS | | | +80.5 | 91,120 | 40,531 | 0 | 0 | 8,037 | 2,086 | 7.13 | .23 |
| ACRE-FEET | | | +80,500 | 180,737 | 80,393 | 0 | 0 | 15,941 | 4,138 | | |

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

| | | | | | |
|---------------|---------------------|--------|--------|------------------------|-------|
| | RELEASE (ACRE-FEET) | | | PRECIPITATION | |
| POWER | 80,393 | OUTLET | 0 | THIS MONTH = | .23 |
| SPILL | 0 | TOTAL | 96,334 | JULY 1, 2007 TO DATE = | 14.69 |
| PUMPING PLANT | 15,941 | | | | |

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

JUNE 2008

FOLSOM LAKE DAILY OPERATIONS

RUN DATE August 8, 2008

| DAY | ELEV | STORAGE | | COMPUTED* INFLOW C.F.S. | POWER | RELEASE - C.F.S. | | | EVAPORATION | | PRECIP INCHES |
|------------------|--------|---------------------------|-----------------|-------------------------------|----------------|------------------|----------|------------------|--------------|-------------|------------------|
| | | 1000 ACRE-Feet IN LAKE | CHANGE | | | RIVER SPILL | OUTLET | PUMPING PLANT | C.F.S. | INCHES | |
| 1 | 430.16 | 615.1 | -2.0 | 1,736 | 2,389 | 0 | 0 | 272 | 69 | .23 | .00 |
| 2 | 429.92 | 612.9 | -2.1 | 1,644 | 2,378 | 0 | 0 | 277 | 71 | .24 | .00 |
| 3 | 429.75 | 611.4 | -1.5 | 1,825 | 2,241 | 0 | 0 | 269 | 77 | .26 | .00 |
| 4 | 429.55 | 609.6 | -1.8 | 1,552 | 2,103 | 0 | 0 | 269 | 77 | .26 | .00 |
| 5 | 429.40 | 608.3 | -1.3 | 1,788 | 2,103 | 0 | 0 | 269 | 89 | .30 | .00 |
| 6 | 429.12 | 605.8 | -2.5 | 1,397 | 2,290 | 0 | 0 | 273 | 89 | .30 | .00 |
| 7 | 428.91 | 604.0 | -1.9 | 1,564 | 2,136 | 0 | 0 | 281 | 86 | .29 | .00 |
| 8 | 428.71 | 602.2 | -1.8 | 1,565 | 2,084 | 0 | 0 | 288 | 83 | .28 | .00 |
| 9 | 428.40 | 599.5 | -2.7 | 1,571 | 2,562 | 0 | 0 | 294 | 94 | .32 | .00 |
| 10 | 427.90 | 595.1 | -4.4 | 1,692 | 3,536 | 0 | 0 | 286 | 91 | .31 | .00 |
| 11 | 427.10 | 588.1 | -7.0 | 1,557 | 4,690 | 0 | 0 | 283 | 114 | .39 | .00 |
| 12 | 426.36 | 581.6 | -6.4 | 1,607 | 4,455 | 0 | 0 | 295 | 99 | .34 | .00 |
| 13 | 425.66 | 575.6 | -6.1 | 1,290 | 3,952 | 0 | 0 | 302 | 86 | .30 | .00 |
| 14 | 424.88 | 568.9 | -6.7 | 1,430 | 4,414 | 0 | 0 | 301 | 95 | .33 | .00 |
| 15 | 424.08 | 562.0 | -6.8 | 1,270 | 4,345 | 0 | 0 | 292 | 74 | .26 | .00 |
| 16 | 423.27 | 555.2 | -6.9 | 1,319 | 4,393 | 0 | 0 | 295 | 88 | .31 | .00 |
| 17 | 422.45 | 548.3 | -6.9 | 1,153 | 4,262 | 0 | 0 | 287 | 79 | .28 | .00 |
| 18 | 421.58 | 541.0 | -7.3 | 918 | 4,193 | 0 | 0 | 304 | 81 | .29 | .00 |
| 19 | 420.72 | 533.9 | -7.1 | 1,282 | 4,496 | 0 | 0 | 293 | 83 | .30 | .00 |
| 20 | 419.90 | 527.2 | -6.7 | 1,105 | 4,117 | 0 | 0 | 296 | 91 | .33 | .00 |
| 21 | 419.10 | 520.6 | -6.5 | 1,245 | 4,125 | 0 | 0 | 308 | 101 | .37 | .00 |
| 22 | 418.29 | 514.1 | -6.6 | 1,360 | 4,254 | 0 | 0 | 303 | 106 | .39 | .00 |
| 23 | 417.48 | 507.6 | -6.5 | 1,155 | 4,050 | 0 | 0 | 301 | 84 | .31 | .00 |
| 24 | 416.87 | 502.7 | -4.9 | 1,317 | 3,414 | 0 | 0 | 296 | 64 | .24 | .00 |
| 25 | 416.06 | 496.3 | -6.4 | 841 | 3,749 | 0 | 0 | 285 | 45 | .17 | .00 |
| 26 | 415.42 | 491.3 | -5.0 | 1,146 | 3,325 | 0 | 0 | 283 | 74 | .28 | .00 |
| 27 | 414.93 | 487.4 | -3.8 | 1,335 | 2,938 | 0 | 0 | 298 | 37 | .14 | .00 |
| 28 | 414.35 | 482.9 | -4.5 | 1,359 | 3,284 | 0 | 0 | 287 | 63 | .24 | .00 |
| 29 | 413.75 | 478.3 | -4.6 | 1,178 | 3,168 | 0 | 0 | 286 | 68 | .26 | .00 |
| 30 | 413.04 | 472.8 | -5.5 | 933 | 3,335 | 0 | 0 | 289 | 67 | .26 | .00 |
| TOTALS | | | -144.2 | 41,134 | 102,781 | 0 | 0 | 8,662 | 2,425 | 8.58 | .00 |
| ACRE-Feet | | | -144,200 | 81,589 | 203,866 | 0 | 0 | 17,181 | 4,810 | | |

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

| | | | | | |
|---------------|---------------------|--------|---------|------------------------|-------|
| | RELEASE (ACRE-Feet) | | | PRECIPITATION | |
| POWER | 203,866 | OUTLET | 0 | THIS MONTH = | .00 |
| SPILL | 0 | TOTAL | 221,047 | JULY 1, 2007 TO DATE = | 14.69 |
| PUMPING PLANT | 17,181 | | | | |

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

JULY 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: September 26, 2007

| DAY | ELEV | STORAGE | | COMPUTED* INFLOW C.F.S. | POWER | RELEASE - C.F.S. | | PUMPING PLANT | EVAPORATION | | PRECIP INCHES |
|------------------|--------|---------------------------|-----------------|-------------------------------|----------------|------------------|----------|------------------|--------------|-------------|------------------|
| | | 1000 ACRE-Feet IN LAKE | CHANGE | | | RIVER SPILL | OUTLET | | C.F.S. | INCHES | |
| | | 655.9 | | | | | | | | | |
| 1 | 433.84 | 648.5 | -7.5 | 1,134 | 4,537 | 0 | 0 | 282 | 83 | .27 | .00 |
| 2 | 432.94 | 640.2 | -8.3 | 894 | 4,671 | 0 | 0 | 291 | 91 | .30 | .00 |
| 3 | 432.29 | 634.3 | -5.9 | 1,505 | 4,101 | 0 | 0 | 296 | 91 | .30 | .00 |
| 4 | 431.74 | 629.3 | -5.0 | 1,389 | 3,543 | 0 | 0 | 286 | 75 | .25 | .00 |
| 5 | 431.18 | 624.2 | -5.1 | 1,551 | 3,714 | 0 | 0 | 304 | 84 | .28 | .00 |
| 6 | 430.65 | 619.5 | -4.8 | 1,803 | 3,793 | 0 | 0 | 310 | 102 | .34 | .00 |
| 7 | 430.20 | 615.4 | -4.0 | 1,508 | 3,162 | 0 | 0 | 303 | 77 | .26 | .00 |
| 8 | 429.67 | 610.7 | -4.7 | 1,057 | 3,100 | 0 | 0 | 294 | 47 | .16 | .00 |
| 9 | 429.16 | 606.2 | -4.5 | 1,378 | 3,327 | 0 | 0 | 291 | 47 | .16 | .00 |
| 10 | 428.77 | 602.7 | -3.5 | 1,603 | 2,975 | 0 | 0 | 281 | 88 | .30 | .00 |
| 11 | 428.14 | 597.2 | -5.6 | 1,225 | 3,701 | 0 | 0 | 262 | 65 | .22 | .00 |
| 12 | 427.46 | 591.2 | -6.0 | 1,372 | 4,049 | 0 | 0 | 264 | 64 | .22 | .00 |
| 13 | 426.77 | 585.2 | -6.0 | 1,160 | 3,867 | 0 | 0 | 242 | 87 | .30 | .00 |
| 14 | 426.17 | 580.0 | -5.2 | 1,899 | 4,154 | 0 | 0 | 284 | 87 | .30 | .00 |
| 15 | 425.50 | 574.2 | -5.8 | 1,646 | 4,186 | 0 | 0 | 284 | 89 | .31 | .00 |
| 16 | 424.79 | 568.1 | -6.1 | 1,449 | 4,153 | 0 | 0 | 289 | 80 | .28 | .00 |
| 17 | 423.91 | 560.6 | -7.5 | 1,136 | 4,574 | 0 | 0 | 273 | 71 | .25 | .00 |
| 18 | 423.28 | 555.3 | -5.3 | 1,825 | 4,196 | 0 | 0 | 264 | 51 | .18 | .00 |
| 19 | 422.54 | 549.0 | -6.2 | 1,189 | 4,013 | 0 | 0 | 262 | 51 | .18 | .00 |
| 20 | 421.80 | 542.9 | -6.2 | 1,445 | 4,226 | 0 | 0 | 268 | 70 | .25 | .00 |
| 21 | 421.12 | 537.2 | -5.6 | 1,610 | 4,113 | 0 | 0 | 269 | 75 | .27 | .00 |
| 22 | 420.39 | 531.2 | -6.0 | 1,648 | 4,331 | 0 | 0 | 276 | 75 | .27 | .00 |
| 23 | 419.60 | 524.7 | -6.5 | 1,371 | 4,288 | 0 | 0 | 276 | 69 | .25 | .00 |
| 24 | 418.93 | 519.3 | -5.5 | 1,314 | 3,717 | 0 | 0 | 275 | 74 | .27 | .00 |
| 25 | 418.37 | 514.7 | -4.5 | 1,532 | 3,486 | 0 | 0 | 273 | 54 | .20 | .00 |
| 26 | 417.88 | 510.8 | -3.9 | 1,464 | 3,122 | 0 | 0 | 263 | 70 | .26 | .00 |
| 27 | 417.43 | 507.2 | -3.6 | 1,537 | 3,002 | 0 | 0 | 270 | 81 | .30 | .00 |
| 28 | 416.91 | 503.0 | -4.2 | 1,488 | 3,228 | 0 | 0 | 275 | 80 | .30 | .00 |
| 29 | 416.28 | 498.0 | -5.0 | 1,137 | 3,297 | 0 | 0 | 278 | 80 | .30 | .00 |
| 30 | 415.72 | 493.6 | -4.4 | 1,304 | 3,184 | 0 | 0 | 282 | 66 | .25 | .00 |
| 31 | 415.20 | 489.5 | -4.1 | 1,116 | 2,847 | 0 | 0 | 270 | 58 | .22 | .00 |
| TOTALS | | | -166.5 | 43,689 | 116,657 | 0 | 0 | 8,637 | 2,282 | 8.00 | .00 |
| ACRE-Feet | | | -166,500 | 86,657 | 231,389 | 0 | 0 | 17,131 | 4,526 | | |

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

| | | | | | |
|---------------|---------------------|--------|---------|------------------------|-----|
| | RELEASE (ACRE-Feet) | | | PRECIPITATION | |
| POWER | 231,389 | OUTLET | 0 | THIS MONTH = | .00 |
| SPILL | 0 | TOTAL | 248,520 | JULY 1, 2007 TO DATE = | .00 |
| PUMPING PLANT | 17,131 | | | | |

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

AUGUST 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 17, 2007

| DAY | ELEV | STORAGE | | COMPUTED INFLOW C.F.S. | POWER | RELEASE - C.F.S. | | | EVAPORATION | | PRECIP INCHES |
|------------------|--------|-------------------------------|-----------------|------------------------------|----------------|------------------|------------|------------------|--------------|-------------|------------------|
| | | 1000 ACRE- FEET IN LAKE | CHANGE | | | RIVER SPILL | OUTLET | PUMPING PLANT | C.F.S. | INCHES | |
| | | 489.5 | | | | | | | | | |
| 1 | 414.58 | 484.7 | -4.8 | 1,370 | 3,439 | 0 | 0 | 290 | 81 | .31 | .00 |
| 2 | 414.03 | 480.4 | -4.3 | 1,304 | 3,099 | 0 | 0 | 284 | 78 | .30 | .00 |
| 3 | 413.47 | 476.1 | -4.3 | 1,364 | 3,185 | 0 | 0 | 280 | 75 | .29 | .00 |
| 4 | 412.94 | 472.0 | -4.1 | 1,356 | 3,054 | 0 | 0 | 286 | 72 | .28 | .00 |
| 5 | 412.31 | 467.2 | -4.8 | 1,144 | 3,202 | 0 | 0 | 283 | 82 | .32 | .00 |
| 6 | 411.65 | 462.2 | -5.0 | 1,090 | 3,276 | 0 | 0 | 261 | 79 | .31 | .00 |
| 7 | 411.10 | 458.1 | -4.2 | 1,396 | 3,199 | 0 | 0 | 249 | 43 | .17 | .00 |
| 8 | 410.53 | 453.8 | -4.3 | 1,232 | 3,078 | 0 | 0 | 255 | 53 | .21 | .00 |
| 9 | 409.86 | 448.8 | -5.0 | 1,131 | 3,349 | 0 | 0 | 254 | 50 | .20 | .00 |
| 10 | 409.26 | 444.3 | -4.4 | 1,078 | 2,997 | 0 | 0 | 263 | 57 | .23 | .00 |
| 11 | 408.68 | 440.1 | -4.3 | 1,194 | 3,014 | 0 | 0 | 265 | 67 | .27 | .00 |
| 12 | 408.24 | 436.8 | -3.2 | 1,539 | 2,823 | 0 | 0 | 264 | 76 | .31 | .00 |
| 13 | 407.76 | 433.4 | -3.5 | 1,452 | 2,889 | 0 | 0 | 269 | 56 | .23 | .00 |
| 14 | 407.29 | 429.9 | -3.4 | 1,557 | 2,950 | 0 | 0 | 270 | 53 | .22 | .00 |
| 15 | 406.85 | 426.8 | -3.2 | 1,269 | 2,544 | 0 | 0 | 267 | 58 | .24 | .00 |
| 16 | 406.36 | 423.3 | -3.5 | 1,407 | 2,840 | 0 | 0 | 262 | 75 | .31 | .00 |
| 17 | 405.88 | 419.8 | -3.4 | 1,139 | 2,539 | 0 | 0 | 263 | 65 | .27 | .00 |
| 18 | 405.42 | 416.6 | -3.3 | 1,448 | 2,752 | 0 | 0 | 269 | 69 | .29 | .00 |
| 19 | 404.86 | 412.6 | -4.0 | 1,113 | 2,777 | 0 | 0 | 272 | 57 | .24 | .00 |
| 20 | 404.36 | 409.1 | -3.5 | 1,366 | 2,807 | 0 | 0 | 270 | 54 | .23 | .00 |
| 21 | 403.94 | 406.2 | -2.9 | 1,483 | 2,637 | 0 | 0 | 272 | 54 | .23 | .00 |
| 22 | 403.47 | 402.9 | -3.3 | 1,342 | 2,627 | 0 | 32 | 267 | 56 | .24 | .00 |
| 23 | 403.03 | 399.9 | -3.0 | 1,305 | 2,449 | 0 | 57 | 271 | 63 | .27 | .00 |
| 24 | 402.48 | 396.1 | -3.8 | 975 | 2,544 | 0 | 0 | 267 | 62 | .27 | .00 |
| 25 | 401.97 | 392.6 | -3.5 | 1,308 | 2,737 | 0 | 0 | 266 | 62 | .27 | .00 |
| 26 | 401.53 | 389.7 | -3.0 | 1,379 | 2,562 | 0 | 0 | 261 | 55 | .24 | .00 |
| 27 | 400.93 | 385.6 | -4.0 | 954 | 2,676 | 0 | 0 | 267 | 52 | .23 | .00 |
| 28 | 400.47 | 382.5 | -3.1 | 1,290 | 2,552 | 0 | 0 | 235 | 52 | .23 | .00 |
| 29 | 400.24 | 381.0 | -1.5 | 1,906 | 2,358 | 0 | 0 | 266 | 56 | .25 | .00 |
| 30 | 399.75 | 377.8 | -3.3 | 1,525 | 2,842 | 0 | 0 | 262 | 61 | .27 | .00 |
| 31 | 399.43 | 375.6 | -2.1 | 1,493 | 2,217 | 0 | 0 | 274 | 67 | .30 | .00 |
| TOTALS | | | -114.0 | 40,909 | 88,014 | 0 | 89 | 8,284 | 1,940 | 8.03 | .00 |
| ACRE-FEET | | | -114,000 | 81,143 | 174,576 | 0 | 177 | 16,431 | 3,848 | | |

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

| | | | | | |
|---------------|---------------------|--------|---------|------------------------|-----|
| | RELEASE (ACRE-FEET) | | | PRECIPITATION | |
| POWER | 174,576 | OUTLET | 177 | THIS MONTH = | .00 |
| SPILL | 0 | TOTAL | 191,184 | JULY 1, 2007 TO DATE = | .00 |
| PUMPING PLANT | 16,431 | | | | |

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

SEPTEMBER 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 31, 2007

| DAY | ELEV | STORAGE | | COMPUTED* INFLOW C.F.S. | POWER | RELEASE - C.F.S. | | | EVAPORATION | | PRECIP INCHES |
|------------------|--------|---------------------------|----------------|-------------------------------|----------------|------------------|----------|------------------|--------------|-------------|------------------|
| | | 1000 ACRE-Feet IN LAKE | CHANGE | | | RIVER SPILL | OUTLET | PUMPING PLANT | C.F.S. | INCHES | |
| 1 | 398.92 | 372.3 | -3.4 | 1,411 | 2,761 | 0 | 0 | 276 | 69 | .31 | .00 |
| 2 | 398.33 | 368.4 | -3.9 | 984 | 2,582 | 0 | 0 | 277 | 68 | .31 | .00 |
| 3 | 397.89 | 365.6 | -2.9 | 1,211 | 2,308 | 0 | 0 | 280 | 68 | .31 | .00 |
| 4 | 397.51 | 363.1 | -2.5 | 1,385 | 2,269 | 0 | 0 | 281 | 72 | .33 | .00 |
| 5 | 397.05 | 360.1 | -3.0 | 1,035 | 2,245 | 0 | 0 | 251 | 37 | .17 | .00 |
| 6 | 396.62 | 357.4 | -2.8 | 880 | 1,962 | 0 | 0 | 260 | 45 | .21 | .00 |
| 7 | 396.29 | 355.3 | -2.1 | 1,386 | 2,138 | 0 | 0 | 255 | 56 | .26 | .00 |
| 8 | 395.89 | 352.7 | -2.5 | 996 | 1,994 | 0 | 0 | 244 | 43 | .20 | .00 |
| 9 | 395.53 | 350.5 | -2.3 | 1,169 | 2,020 | 0 | 0 | 255 | 40 | .19 | .00 |
| 10 | 395.02 | 347.2 | -3.2 | 990 | 2,314 | 0 | 0 | 257 | 44 | .21 | .00 |
| 11 | 394.63 | 344.8 | -2.4 | 891 | 1,843 | 0 | 0 | 241 | 36 | .17 | .00 |
| 12 | 394.49 | 343.9 | -0.9 | 1,286 | 1,445 | 0 | 0 | 238 | 44 | .21 | .00 |
| 13 | 394.31 | 342.8 | -1.1 | 925 | 1,243 | 0 | 0 | 230 | 19 | .09 | .00 |
| 14 | 394.04 | 341.1 | -1.7 | 1,322 | 1,905 | 0 | 0 | 228 | 40 | .19 | .00 |
| 15 | 393.80 | 339.6 | -1.5 | 1,103 | 1,588 | 0 | 0 | 228 | 35 | .17 | .00 |
| 16 | 393.58 | 338.3 | -1.4 | 1,185 | 1,596 | 0 | 0 | 233 | 41 | .20 | .00 |
| 17 | 393.43 | 337.3 | -0.9 | 1,173 | 1,364 | 0 | 0 | 235 | 41 | .20 | .00 |
| 18 | 393.12 | 335.4 | -1.9 | 844 | 1,540 | 0 | 0 | 231 | 37 | .18 | .00 |
| 19 | 392.93 | 334.3 | -1.2 | 1,152 | 1,475 | 0 | 0 | 223 | 43 | .21 | .00 |
| 20 | 392.77 | 333.3 | -1.0 | 1,237 | 1,507 | 0 | 0 | 185 | 37 | .18 | .00 |
| 21 | 392.62 | 332.4 | -0.9 | 1,207 | 1,440 | 0 | 0 | 191 | 37 | .18 | .00 |
| 22 | 392.52 | 331.8 | -0.6 | 1,173 | 1,263 | 0 | 0 | 189 | 29 | .14 | .00 |
| 23 | 392.35 | 330.7 | -1.0 | 1,034 | 1,356 | 0 | 0 | 190 | 10 | .05 | .03 |
| 24 | 392.12 | 329.3 | -1.4 | 811 | 1,307 | 0 | 0 | 193 | 18 | .09 | .00 |
| 25 | 391.96 | 328.3 | -1.0 | 1,051 | 1,318 | 0 | 0 | 198 | 26 | .13 | .00 |
| 26 | 391.87 | 327.8 | -0.5 | 1,213 | 1,242 | 0 | 0 | 206 | 38 | .19 | .00 |
| 27 | 391.84 | 327.6 | -0.2 | 1,523 | 1,364 | 0 | 0 | 210 | 40 | .20 | .00 |
| 28 | 391.68 | 326.7 | -1.0 | 1,434 | 1,667 | 0 | 0 | 205 | 48 | .24 | .00 |
| 29 | 391.39 | 324.9 | -1.7 | 753 | 1,427 | 0 | 0 | 187 | 20 | .10 | .04 |
| 30 | 391.08 | 323.0 | -1.9 | 702 | 1,424 | 0 | 0 | 186 | 34 | .17 | .00 |
| TOTALS | | | -52.8 | 33,466 | 51,907 | 0 | 0 | 6,863 | 1,215 | 5.79 | .07 |
| ACRE-Feet | | | -52,800 | 66,380 | 102,958 | 0 | 0 | 13,613 | 2,410 | | |

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

| | | | | | |
|---------------|---------------------|--------|---------|------------------------|-----|
| | RELEASE (ACRE-Feet) | | | PRECIPITATION | |
| POWER | 102,958 | OUTLET | 0 | THIS MONTH = | .07 |
| SPILL | 0 | TOTAL | 116,571 | JULY 1, 2007 TO DATE = | .07 |
| PUMPING PLANT | 13,613 | | | | |

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

OCTOBER 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: February 7, 2008

| DAY | ELEV | STORAGE | | COMPUTED* INFLOW C.F.S. | POWER | RELEASE - C.F.S. | | PUMPING PLANT | EVAPORATION | | PRECIP INCHES |
|------------------|--------|---------------------------|----------------|-------------------------------|---------------|------------------|----------|------------------|--------------|-------------|------------------|
| | | 1000 ACRE-Feet IN LAKE | CHANGE | | | RIVER SPILL | OUTLET | | C.F.S. | INCHES | |
| 1 | 390.97 | 322.4 | -0.7 | 1,169 | 1,278 | 0 | 0 | 192 | 32 | .16 | .00 |
| 2 | 390.79 | 321.3 | -1.1 | 1,071 | 1,392 | 0 | 0 | 187 | 32 | .16 | .00 |
| 3 | 390.52 | 319.7 | -1.6 | 645 | 1,221 | 0 | 0 | 200 | 34 | .17 | .00 |
| 4 | 390.27 | 318.2 | -1.5 | 732 | 1,262 | 0 | 0 | 186 | 34 | .17 | .00 |
| 5 | 390.03 | 316.8 | -1.4 | 744 | 1,263 | 0 | 0 | 181 | 20 | .10 | .00 |
| 6 | 389.75 | 315.1 | -1.6 | 800 | 1,424 | 0 | 0 | 178 | 29 | .15 | .00 |
| 7 | 389.47 | 313.5 | -1.6 | 849 | 1,467 | 0 | 0 | 187 | 25 | .13 | .00 |
| 8 | 389.16 | 311.7 | -1.8 | 729 | 1,418 | 0 | 0 | 199 | 31 | .16 | .00 |
| 9 | 388.97 | 310.6 | -1.1 | 869 | 1,211 | 0 | 0 | 189 | 31 | .16 | .00 |
| 10 | 388.91 | 310.2 | -0.3 | 1,430 | 1,412 | 0 | 0 | 164 | 29 | .15 | .00 |
| 11 | 388.79 | 309.5 | -0.7 | 1,108 | 1,291 | 0 | 0 | 153 | 15 | .08 | .83 |
| 12 | 388.65 | 308.7 | -0.8 | 1,136 | 1,375 | 0 | 0 | 150 | 21 | .11 | .00 |
| 13 | 388.48 | 307.7 | -1.0 | 789 | 1,142 | 0 | 0 | 145 | 0 | .00 | .12 |
| 14 | 388.25 | 306.4 | -1.3 | 825 | 1,321 | 0 | 0 | 146 | 31 | .16 | .00 |
| 15 | 387.99 | 304.9 | -1.5 | 855 | 1,442 | 0 | 0 | 150 | 23 | .12 | .00 |
| 16 | 387.75 | 303.5 | -1.4 | 960 | 1,494 | 0 | 0 | 147 | 13 | .07 | .00 |
| 17 | 387.39 | 301.4 | -2.1 | 459 | 1,364 | 0 | 0 | 135 | 0 | .00 | .09 |
| 18 | 387.03 | 299.4 | -2.1 | 347 | 1,240 | 0 | 0 | 128 | 19 | .10 | .01 |
| 19 | 386.77 | 297.9 | -1.5 | 688 | 1,282 | 0 | 0 | 134 | 15 | .08 | .00 |
| 20 | 386.60 | 296.9 | -1.0 | 950 | 1,291 | 0 | 0 | 138 | 6 | .03 | .18 |
| 21 | 386.44 | 296.0 | -0.9 | 1,020 | 1,321 | 0 | 0 | 138 | 17 | .09 | .01 |
| 22 | 386.28 | 295.1 | -0.9 | 944 | 1,238 | 0 | 0 | 139 | 24 | .13 | .00 |
| 23 | 386.01 | 293.6 | -1.5 | 809 | 1,416 | 0 | 0 | 146 | 17 | .09 | .00 |
| 24 | 385.79 | 292.4 | -1.2 | 791 | 1,233 | 0 | 0 | 150 | 28 | .15 | .00 |
| 25 | 385.56 | 291.1 | -1.3 | 854 | 1,323 | 0 | 0 | 156 | 22 | .12 | .00 |
| 26 | 385.47 | 290.6 | -0.5 | 1,118 | 1,197 | 0 | 0 | 153 | 22 | .12 | .00 |
| 27 | 385.09 | 288.5 | -2.1 | 787 | 1,684 | 0 | 0 | 158 | 15 | .08 | .00 |
| 28 | 384.90 | 287.4 | -1.1 | 938 | 1,289 | 0 | 0 | 163 | 17 | .09 | .00 |
| 29 | 384.73 | 286.5 | -0.9 | 1,174 | 1,477 | 0 | 0 | 152 | 18 | .10 | .09 |
| 30 | 384.47 | 285.0 | -1.4 | 773 | 1,337 | 0 | 0 | 140 | 18 | .10 | .09 |
| 31 | 384.31 | 284.2 | -0.9 | 794 | 1,099 | 0 | 0 | 129 | 11 | .06 | .00 |
| TOTALS | | | -38.8 | 27,157 | 41,204 | 0 | 0 | 4,913 | 649 | 3.39 | 1.42 |
| ACRE-Feet | | | -38,800 | 53,866 | 81,728 | 0 | 0 | 9,745 | 1,287 | | |

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

| | | | | | |
|---------------|---------------------|--------|--------|------------------------|------|
| | RELEASE (ACRE-Feet) | | | PRECIPITATION | |
| POWER | 81,728 | OUTLET | 0 | THIS MONTH = | 1.42 |
| SPILL | 0 | TOTAL | 91,473 | JULY 1, 2007 TO DATE = | 1.49 |
| PUMPING PLANT | 9,745 | | | | |