C-1 INTRODUCTION

This updated appendix presents the application and results of facility operations and hydrodynamic and water quality modeling in support of the Final Los Vaqueros Reservoir Expansion Project Environmental Impact Statement/Environmental Impact Report (Final EIS/EIR). The purpose of the analysis was to identify potential environmental impacts of the Los Vaqueros Reservoir Expansion Project (project) relative to baseline conditions. The analysis was undertaken using the California Department of Water Resources (DWR) and United States Department of the Interior, Bureau of Reclamation (Reclamation) joint planning model, CalSim II, and DWR's Sacramento-San Joaquin Delta (Delta) Simulation Model, Version 2 (DSM2). The modeling analysis for the Final EIS/EIR contains updated analysis of the changes in Delta operations associated with the biological opinions for the Operations Criteria and Plan (OCAP BOs) issued on December 15, 2008 and June 4, 2009. Additional modifications were made in updating the model analysis for the Final EIS/EIR in response to comments received on the Draft EIS/EIR.

Organization of Appendix

This appendix is organized into eight chapters:

Chapter C-1, Introduction,
includes background information and the organization of the appendix.

Chapter C-2, Model Description,
summarizes the models used and the modeling approach.

Chapter C-3, Modeling Assumptions,
documents the specifics of modeling implementation.

Chapter C-4, Model Results – Water Supply and Management,
summarizes system operations modeling results for the project alternatives.

Chapter C-5, Model Results – Delta Water Quality and Delta Water Level,
summarizes Delta water quality and water level modeling results for the project alternatives.

Chapter C-6, Statistical Water Quality Impact Analysis,
presents statistical tests used to evaluate potential water quality impacts.

Chapter C-7, Fishery Analyses,
provides detailed results and analysis of the methods used for evaluating both direct and indirect effects on the Delta fishery.

Chapter C-8, References,
lists the sources used in compiling this appendix.

C-2 MODEL DESCRIPTION

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Introduction

The purpose of the system operations modeling and Delta hydrodynamic, water quality and particle tracking modeling is to quantify environmental water management, water supply reliability, and water quality benefits and assess the potential environmental impacts of each project alternative. This chapter summarizes the models and modeling process applied to the project; additional details on modeling assumptions are also provided.

Evaluation of the project alternatives requires simulation of three key, interrelated systems: (1) the statewide operations of the CVP and California State Water Project (SWP), (2) Delta hydrodynamics and water quality, and (3) CCWD's local operations. Separate models are available, or have been developed as part of this project, for simulating each of these systems, and the information produced from each model can be integrated to assess the potential of each alternative to achieve project objectives, and the potential effects on CVP/SWP operations and the Delta and upstream environments. Tools used for the project include: (1) the Los Vaqueros operations model, (2) CalSim II, including the artificial neural network (ANN) module for the Delta, and (3) DSM2, including the "hydro", "qual", and particle tracking modules. The statewide and CCWD operations models were combined to run together in an integrated fashion, as described below. This integration was designed to improve sharing of information between the models and provide a more accurate representation of the interrelationship between statewide and CCWD operations.

Operations Models

The operations models used for the project are described below. Complete model output is available for review through CCWD by contacting Marguerite Naillon, Special Projects Manager, at mnaillon@ccwater.com or (925) 688-8018.

WRIMS

The Water Resources Integrated Modeling System (WRIMS) is a generalized water resources software program developed by DWR's Bay-Delta Office. WRIMS is entirely data driven and can be applied to most reservoir-river basin systems. WRIMS represents a given physical system (reservoirs, streams, canals, pumping plants, etc.) through a network of nodes and arcs. The model user describes system connectivity and various operational constraints using a modeling language known as Water Resources Simulation Language (WRESL). WRIMS simulates facility operations using optimization techniques to route water through the network based on mass balance accounting. A mixed integer programming solver determines an optimal set of decisions at each monthly time step for a set of user-defined priorities (weights) and system constraints. The model is described by DWR (2000a) and Draper et al. (2004).

CalSim II

As California's largest water projects, CVP and SWP operations influence and, at times, control flow in the Sacramento and San Joaquin river basins and the Delta. For this Draft EIS/EIR, water conditions and facility operations in the Delta and upstream areas are being simulated using the CalSim II model.

CalSim II is an application of the WRIMS software that was jointly developed by Reclamation and DWR for performing planning studies related to CVP and SWP operations. The primary purpose of CalSim II is to evaluate the water supply reliability of the CVP and SWP at current or future levels of development (e.g., 2005, 2030), with and without various assumed future facilities, and with different modes of facility operations. Geographically, the model covers the drainage basin of the Delta, and CVP/SWP exports to the San Francisco Bay Area (Bay Area), Central Coast, and Southern California. The model assumes that facilities, land use, water supply contracts, and regulatory requirements are constant over the period of simulation, representing a fixed level of development. The historical flow record of October 1921 to September 2003, adjusted for the influence of land use change and upstream flow regulation, is used to represent the possible range of water supply conditions. Major Central Valley rivers, reservoirs, and CVP/SWP facilities are represented by a network of arcs and nodes. CalSim II uses monthly mass balance accounting, and therefore cannot simulate the tidal hydrodynamics of the Delta, and has limited ability to represent Delta water quality.

There are many sources of information documenting the CalSim II model, including two peer reviews. Relevant reports include the following (Reclamation, 2008):

- External peer review commissioned by the CALFED Bay-Delta Program (CALFED) (Close et al., 2003)
- Analysis of an historical operations simulation (DWR, 2003)
- Analysis of the effect varying selected parameters has upon model results (sensitivity analysis study) (DWR, 2005)
- Analysis of the significance of the simulation time step to the estimated SWP delivery amounts (DWR, 2005).
- Peer review of San Joaquin River Valley application (Ford et al., 2006)

CalSim II can be used in either a comparative or an absolute mode. The comparative mode consists of comparing two model runs: one that contains a reservoir expansion project alternative and one that does not. Differences in certain factors, such as deliveries or reservoir storage levels, are analyzed to determine the effects of the project alternatives on system-wide operations. All of the assumptions are the same for the No Action/No Project and action alternative model runs, except the action itself, and the focus of the analysis is the differences in the results. In the absolute mode, results of a single model run, such as the amount of delivery or reservoir levels, are considered directly. In comparative analysis, model biases can cancel out. As such, the measured differences in comparative analysis can be more accurate than the absolute values of the individual studies. All model results used in this analysis were reviewed by model developers and experienced system operators at CCWD, Reclamation and DWR to ensure appropriate interpretation of the results.

Results from a single simulation may not necessarily correspond to actual system operations for a specific month or year, but are representative of general water supply conditions. Model results are best interpreted using various statistical measures such as long-term or year-type averages.

As described in section 4.2, CalSim II model operations are sensitive to threshold triggers. In a handful of months, CalSim II can simulate significantly different operations under similar

conditions. The reasons for this are threshold triggers used in CalSim operations logic. For instance, in CalSim II, when Lake Oroville storage falls below 1 MAF, Oroville releases are made solely in support of in-basin use and in-stream flow requirements. Under such conditions, any release from Oroville that supports SOD exports is incidental. On the other hand, if Oroville storage is above 1 MAF, significant releases are allowed from Oroville to support SOD exports when needed. As such, CalSim II could determine a significantly different operation in a given month if Oroville begins the month at 1.001 MAF in one study and 0.999 MAF in another. Of course, in real-time, operators would be equally protective of Oroville storage in both cases given everything else in the system was roughly the same. This is just one example of a threshold trigger that can cause operational differences in CalSim II studies under comparison; many such threshold triggers exist in the CalSim II model. These threshold triggers, and the potential differences in modeled operations caused by them, are a typical example of why careful review of CalSim II modeling results by existing system operators is necessary.

Such a simulated change in operations is labeled a modeling artifact, and for the most part, differences due to these modeling artifacts tend to average out over time; while one study may have large exports in one month, the alternative will likely have increased exports in another. During wetter years, the measured impacts are typically minimal. However, during drought years, the response to the threshold triggers can cause significant differences in Delta water quality and project deliveries. When caused by modeling artifacts, the differences are not an accurate measure of project impacts. Therefore, operations are closely examined to determine when changes are "real", and when they are "artificial." In the few cases where artificial changes caused unrealistic project impacts (both positive and negative), the operations logic was changed to allow for more reasonably similar operations under similar conditions. All regulatory standards were left in place.

CalSim II Model Revisions and Updates

The Draft EIS/EIR analysis was based on a modified version of the CalSim II model developed for the DWR/Reclamation Surface Storage Investigations using the Common Assumptions Common Model Package (CACMP Version 8D). The analysis of operations in the Final EIS/EIR uses an updated version of the CalSim II model developed in August 2009. This version of CalSim II was based on CACMP Version 9B and was revised to include the OCAP BO restrictions on exports and other statewide water operations. This model was used to simulate both an existing condition as of 2005 and a future scenario[1], which are used in this Final EIS/EIR as the basis for the Existing Conditions and Future No Project scenarios, respectively.

Revisions to the CalSim II modeling were required to update the Existing Condition to account for new facilities, integrate existing CCWD and Los,Vaqueros Expansion project facilities and operations into the CalSim II model, and improve the efficiency of model simulation. These revisions are discussed in this section.

[1] The Sacramento Valley hydrology used in the Future No Action CalSim II model reflects 2020 land-use assumptions associated with Bulletin 160-98 (DWR, 1998). The San Joaquin Valley hydrology reflects draft 2030 land-use assumptions developed by Reclamation to support Reclamation studies.

The CACMP model assumes an existing condition as of June 2004. The version of CalSim II used for these analyses has been updated to include the SBA Enlargement Project[2].

The analyses pertaining to operations of the SWP and CVP in the Draft EIS/EIR were based on the Interim Order issued by Judge Wanger and the 2004 OCAP. The interim measures rely upon real-time conditions and could not be simulated with one simple set of rules; therefore, modeling for the Draft EIS/EIR considered moderate and severe restrictions on Delta export operations to protect fisheries that captured the range of current and anticipated future operating rules, based on the terms of the interim remedial order. This bracketed approach to modeling fishery restrictions is updated with a single estimate in the Final EIS/EIR modeling.

The CalSim II model used for the Final EIS/EIR has two steps, a "conveyance" step in which the majority of the statewide water operations are computed, and a "transfer" step in which some water transfers are accounted for. To streamline the modeling process, the Final EIS/EIR modeling only used the conveyance step of the CalSim II model. The elements of statewide operations represented in the transfer step do not affect and are not affected by CCWD or Los Vaqueros Reservoir Expansion Project operations, so it was not necessary to include the transfer step in the analysis of the project alternatives.

Los Vaqueros Module

Using the WRIMS software, a model representing CCWD's existing facilities and expansion project facility configurations was created, and then integrated with CalSim II. The Los Vaqueros Module represents the Los Vaqueros Reservoir, CCWD's Delta intakes at Rock Slough, Old River, and Victoria Canal, CCWD's intertie with the EBMUD Mokelumne Aqueduct, and new facilities as appropriate for the project alternatives (described in Chapter 3).

CCWD's operations are determined in part by water quality considerations. The model used for this Final EIS/EIR uses an input timeseries of salinity at CCWD's intakes. Baseline Delta salinity and other Delta conditions were developed for both existing and future levels of development using the following procedure: Monthly operations were simulated for without project conditions over an 82-year period using the CalSim II model with the Los Vaqueros module, using the default initial Delta conditions, including Delta water quality, that were provided with the CalSim II model. Then, the monthly CCWD/Los Vaqueros diversions and boundary flows output by CalSim II were used as input to simulate Delta tidal flows and salinity using DSM2 (described in the next section) for the 82-year period. The EC timeseries computed at CCWD's intake locations in this DSM2 run was converted to chlorides and used as the input for the CalSim II model runs analyzed in this Final EIS/EIR.

The Los Vaqueros Module also contains more detailed operational rules that determine CCWD diversions at each intake. These rules capture the operational restrictions imposed by CCWD's biological opinions and other permits and agreements, as described in Appendix C3.

[2] The SBA conveys water from Bethany Reservoir to ACWD, SCVWD, and Zone 7. The SBA was originally designed for a capacity of 300 cubic feet per second (cfs). The purpose of the SBA Enlargement Project is to increase the capacity of the SBA to 430 cfs to meet Zone 7 Water Agency's future needs and provide operational flexibility to reduce SWP peak power consumption. This enlargement to 430 cfs total capacity is included in the existing conditions assumptions for these model studies.

Delta Hydrodynamic and Water Quality Modeling – DSM2

DSM2 is a branched, one-dimensional model for simulating hydrodynamics, water quality, and particle tracking in a network of riverine or estuarine channels (DWR, 2000b). The model is used by DWR and others to perform operational and planning studies of the Delta. Details of the model, including source codes, model calibration, and model performance, are available from the DWR Bay-Delta Office, Modeling Support Branch web site (DWR, 2000b). Documentation of model development is discussed in annual reports to the SWRCB.

The Hydro module of DSM2, applied to the Delta, simulates tidal hydrodynamics (channel stage, flow, and water velocity) using a 15-minute time step. For the project, DSM2 Hydro is used to evaluate changes in stage and flow in the south and central Delta.

The Qual module of DSM2 can simulate the movement of both conservative and non-conservative constituents. For the project, DSM2-Qual is used to assess changes in EC as a surrogate for salinity at key locations within the Delta. Additionally, a fingerprinting analysis is used to identify sources of EC and provide the basis for the EC-to-chloride conversion at CCWD's intakes.

The particle tracking module (PTM) simulates the movement of neutrally buoyant particles by advection and dispersion, using a random walk methodology. DSM2-PTM is a quasi three-dimensional extension of DSM2. Using the mean velocity from DSM2-Hydro, DSM2-PTM applies a logarithmic vertical velocity profile and a parabolic lateral velocity profile to allow longitudinal dispersion. For the project, DSM2-PTM is used to model the transport and fate of passive or non-mobile organisms within the Delta to help quantify circulation changes and resulting entrainment risks.

As in the Draft EIS/EIR, CACMP DSM2 Version 9 is used in this Final EIS/EIR to provide water quality data at CCWD's three Delta diversion locations (Rock Slough, Old River, Victoria Canal)[3] to simulate Los Vaqueros operations within CalSim II, and to evaluate Delta water quality impacts as a result of the project.

In this Final EIS/EIR, two different levels of development are considered, 2005 for existing conditions and 2030 for future conditions. The differences between these levels of development in the DSM2 model are the amount of agricultural diversions and agricultural return flows. The agricultural diversions and return flows (to approximately 250 diversion nodes and 200 drainage nodes) were calculated by the Delta Island Consumptive Use model with consideration of precipitation, seepage, evapotranspiration, irrigation, soil moisture, leach water, runoff, crop type, and acreage. The DSM2 model for both existing and future without project conditions includes the South Delta Temporary Barriers Project (DWR, 2008b), which consists of four rock barriers that are installed seasonally across south Delta channels (at the head of Old River, Middle River,

[3] The Los Vaqueros module within CalSim II relies on input chloride concentrations to determine CCWD operations. The DSM2 channel locations used for this purpose are as follows:
(1) Rock Slough - ROLD024 (Old River at Bacon Island near Contra Costa Canal) was used for future LOD and CHCCC006 (Contra Costa Pumping Plant No.1) was used for the existing LOD. This distinction is made to include the effects of the CCWD Canal Replacement Project in the future LOD conditions.
(2) Old River - ROLD034, Old River near Byron.
(3) Victoria Canal (AIP) - CHVCT000, Victoria Canal at AIP.

Old River near Tracy, and Grant Line Canal) as fish and agricultural barriers. This is a change from the Draft EIS/EIR, DSM2 modeling of future conditions, which included four proposed South Delta Improvement Program (SDIP) permanent operable gates instead of the temporary barriers. In the Final EIS/EIR, the temporary barriers are assumed in the DSM2 modeling of future conditions to reflect the NMFS OCAP BO.

Key DSM2 inputs include tidal stage, boundary inflow and salinity concentration, and operation of flow control structures. **Table C2-1** summarizes basic input requirements and assumptions for the CACMP DSM2 version. Results from CalSim II are used to define Delta boundary inflows, including the Sacramento River flow at Hood, San Joaquin River flow at Vernalis, inflow from the Yolo Bypass, and inflow from the east-side streams. In addition, net Delta outflow from CalSim II is used to calculate the DSM2 salinity boundary at Martinez.

TABLE C2-1:
DSM2 INPUT REQUIREMENTS AND ASSUMPTIONS

Parameters	Assumptions
Period of Simulation	October 1976 – September 1991
Boundary Flows	CalSim II output: Sacramento River flow at Hood San Joaquin River flow at Vernalis Inflow from the Yolo Bypass Inflow from the east-side streams Net Delta Outflow CCWD diversions
Boundary Stage	15-minute adjusted astronomical tide
Agricultural Diversion & Return Flows	Delta Island Consumptive Use model, 2005/2030 level of development
Salinity	
Martinez EC	Computed from modified G-model, adjusted astronomical tide and Net Delta Outflow from CalSim II
Sacramento River	Constant value = 175 μS/cm
Yolo Bypass	Constant value = 175 μS/cm
Mokelumne River	Constant value = 150 μS/cm
Cosumnes River	Constant value = 150 μS/cm
Calaveras River	Constant value = 150 μS/cm
San Joaquin River	CalSim II EC estimate using link-node salt balance model
Agricultural Drainage	Varying monthly values that are constant year to year
Facility Operations	
Delta Cross Channel	CalSim II output
South Delta Barriers	Temporary barriers/SDIP operation of permanent barriers

C-3 MODELING ASSUMPTIONS

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Introduction

This chapter discusses the modeling assumptions used to characterize the Existing Conditions, the Future No Action/No Project Alternative, and the project alternatives described previously in Chapter 3. The different assumptions for the 2005 (existing) and 2030 (future) levels of development are summarized in **Table C3-1**. Table 3-3 in Chapter 3 summarizes the major facility components of the project alternatives.

TABLE C3-1:
OPERATIONS MODEL ASSUMPTIONS FOR EXISTING AND FUTURE LEVELS OF DEVELOPMENT

Description	Units	Existing Level of Development	Future Level of Development
PROJECTS OR FACILITIES			
Rock Slough Intake and Contra Costa Canal Pumping Plant No.1	(cfs)	350	350
Rock Slough Canal Replacement Project		NA[1]	Included
Rock Slough Fish Screen Project		Not included in existing condition; included for Alternatives 1, 2 and 4	Included
CCWD/EBMUD Intertie			
Annual delivery[2]	(TAF)	3.2	3.2
Intertie capacity	(cfs)	155	155
South Bay Aqueduct Improvement and Enlargement[3]			
Brushy Creek Pipeline capacity	(cfs)	430	430
Freeport Regional Water Project[4,5]		included	Included
DMC-CA Intertie		NA	Included
South Delta Improvements Program, Phase 1 (barriers)		NA	Not Included
South Delta Improvements Program, Phase 2		NA	Not Included
City of Stockton Delta Water Supply Project		NA	Included
WATER DEMANDS			
CCWD demand[6 7]	(TAF/yr)		
Wet year		111	149
Above normal year		118	157
Below normal year		124	162
Dry year		135	175
Critical year		144	184
EBMUD - CCWD Settlement Agreement			

[1] NA = not applicable.
[2] Under the CCWD settlement agreement, FRWA and EBMUD will wheel CVP contract water for CCWD.
[3] Due to the current construction schedule of the SBA Improvement and Enlargement Project, the expanded SBA capacity of 430 cfs is included in the existing condition scenarios.

[5] The Freeport Regional Water Project is a joint venture of the Sacramento County Water Agency and East Bay Municipal Utility District to supply water from the Sacramento River to customers in Sacramento County and the East Bay. Final EIR has been certified, Final EIS has been released, and on January 4, 2005, Reclamation issued the Record of Decision.
[6] Derived from CCWD's Future Water Supply Study (CCWD, August 1996), with adjustments made for the future condition to estimate the demand distribution in 2030. Future condition demands represent Service Area C. Demands and demand pattern taken from April 2004 Planning Report.
[7] Water-years defined by Sacramento Valley Water Year Index.

TABLE C3-1:
OPERATIONS MODEL ASSUMPTIONS FOR EXISTING AND FUTURE LEVELS OF DEVELOPMENT

Description	Units	Existing Level of Development	Future Level of Development
Delivery amount[8]	(TAF/yr)	3.2	3.2
EBMUD-CCWD Settlement Delivery location		Preferential delivery to storage, also direct delivery	Preferential delivery to storage, also direct delivery
EBMUD-CCWD Settlement Period of diversion		When water quality at Rock Slough allows CCWD demand to be met from Rock Slough, allowing delivery to storage	When water quality at Rock Slough allows CCWD demand to be met from Rock Slough, allowing delivery to storage
WATER QUALITY INPUT DATA – chloride concentration			
Rock Slough at CCWD Pumping Plant No. 1	(mg/L)	DSM2 output (CHCCC006)	DSM2 output (ROLD024)
Old River at Old River Pumping Plant	(mg/L)	DSM2 output (ROLD034)	DSM2 output (ROLD034)
New Delta Intake	(mg/L)	DSM2 output (ROLD034)	DSM2 output (ROLD034)
Victoria Canal at AIP	(mg/L)	DSM2 output (229_3048)	DSM2 output (229_3048)
Kellogg Creek	(mg/L)	Varies, 11 - 300	Varies, 11 - 300
Precipitation inflow to Los Vaqueros	(mg/L)	7	7
Mokelumne Aqueduct	(mg/L)	7.5	7.5

CalSim II Model

The version of CalSim II used in this study is the August 2009 draft released by the Bay Delta Conservation Plan (BDCP) team. Biological opinions (BOs) from the United States Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) impose restrictions on CVP and SWP operations for the protection of federally listed threatened and endangered species and their critical habitat. USFWS released a new BO in December 2008, and NMFS released a new BO in June 2009. The BDCP CalSim II modeling assumptions include the fishery restrictions on CVP and SWP operations imposed by the new BOs. For details on the implementation of the reasonable and prudent alternative actions in the CalSim II modeling assumptions, consult the BDCP modeling team.

Water Demand Assumptions

CCWD Demand

CCWD demands are summarized by water-year type in Table C3-1. CCWD has a delivered water quality goal of delivering water with less than or equal to 65 mg/L chloride concentration. The

[8] Included in CCWD's 195 TAF/year CVP contract

model delivers the best possible water quality to CCWD customers while optimizing reservoir storage. While CCWD demand varies between Existing and Future LOD, it does not vary between the base simulation and the alternatives for a given LOD.

Delta Supply Restoration Demand

The South Bay water agencies' demand for Delta Supply Restoration water from an expanded Los Vaqueros Reservoir system was estimated using CalSim II data for each of the three SBA water agencies (ACWD, SCVWD, and Zone 7) and the SCVWD CVP M&I water users, collectively referred to as the South Bay water agencies. Delta supply restoration deliveries to the South Bay water agencies in Alternative 1 were assumed to replace deliveries lost due to the implementation of the moderate level of fishery restrictions resulting from the *NRDC vs. Kempthorne* decision. The Delta Supply Restoration demands were estimated by taking the difference in deliveries for each participating agency as output from CalSim II simulations for both pre- and post-delta smelt protection actions. Dry and critical year demands were then increased by an additional 50 percent and 200 percent, respectively, to approximate the estimated level of water supply required by these agencies in all years (contract allocation values are lower in dry and critically dry years, requiring more reliability water to meet a minimum delivery requirement). These values may be refined in future studies if improved estimates of the reliability demands of these agencies are developed. **Table C3-2** summarizes by water-year type the assumed Bay Area reliability demand from an expanded Los Vaqueros Reservoir.

TABLE C3-2:
DELTA SUPPLY RESTORATION DEMANDS BY WATER-YEAR TYPE

	Total Demand (TAF/year)[2]	
Water-Year Type[1]	**Existing**	**Future**
Wet	36.5	45.9
Above Normal	50.6	63.0
Below Normal	53.2	62.1
Dry	69.5	66.5
Critical	82.3	71.4

Notes:
[1] Water-years defined by Sacramento Valley Index (October – September).
[2] TAF/year = thousand acre-feet per year

Environmental Water Demand

Environmental water demands applied in Alternatives 2 are represented in the model by incremental South-of-Delta Level 4 refuge demands, as provided by the Bureau of Reclamation for the North of Delta Offstream Storage Investigations. Separate incremental demands were used for the San Joaquin Valley and Tulare Basin. In Alternative 2, environmental water is delivered through the South Bay Connection to Bethany Reservoir, and then delivered to the refuges using existing conveyance facilities. Deliveries from the Los Vaqueros Reservoir system to the San Joaquin Valley refuges are made through the Delta-Mendota Canal, and deliveries from the Los Vaqueros Reservoir system to the Tulare Basin refuges are made through the California Aqueduct. **Table C3-3** summarizes monthly refuge demands to be met through deliveries from the project facilities in Alternatives 2. .

TABLE C3-3:
REFUGE DEMANDS BY MONTH (TAF)

Month	San Joaquin Valley	Tulare Basin	Total
January	3.36	0.00	3.36
February	3.29	0.00	3.29
March	3.10	0.00	3.10
April	4.54	0.00	4.54
May	6.74	3.82	10.56
June	8.53	1.56	10.09
July	3.22	0.00	3.22
August	3.83	0.00	3.83
September	11.62	4.68	16.30
October	17.13	2.43	19.56
November	10.95	3.64	14.59
December	5.01	3.64	8.65
Total Annual (TAF/yr)	**81.32**	**19.77**	**101.09**

Water Supply Assumptions

CCWD Supply

On May 10, 2005, CCWD signed a long-term contract with Reclamation for delivery of up to 195,000 acre-feet of water per year for M&I uses in the CCWD service area. The contract expires in 2045. Through a settlement agreement with EBMUD, CCWD may receive a portion of its CVP supplies from the existing intertie with the Mokelumne Aqueduct. This settlement agreement supply is outlined in Table C3-1. The CVP annual allocations to north-of-Delta (NOD) M&I water service contractors are assigned for the contract year beginning in March and ending in February and is taken from CalSim II. For allocation of shortages, CCWD is considered an NOD M&I contractor.

D-1629, issued on June 2, 1994, gives CCWD the rights to divert and store water for beneficial uses. Under SWRCB Water Right Permits No. 20749 and 20750, CCWD may fill Los Vaqueros Reservoir from the intake at Old River and divert and store water from Kellogg Creek. These rights are in addition to the contractual rights to divert and store CVP contract water. Up to 95,850 acre-feet per year may be diverted for storage between November 1 and June 30 at a maximum rate of 200 cfs. Diversion is limited to periods when the Delta is in excess water conditions, as defined in the Coordinated Operations Agreement, given that those diversions will not adversely impact the operations of the SWP and CVP. CCWD may also divert water under its CVP water supply contract to storage in Los Vaqueros Reservoir throughout the year. CCWD diversions and filling of the reservoir are also subject to the provisions of the 1993 delta smelt and chinook salmon BOs and the 2009 Incidental Take Permit .

The water right permit for filling Los Vaqueros Reservoir includes the diversion and storage of water from Kellogg Creek (up to 9,640 acre-feet per year). Diversion from Kellogg Creek is limited to flows above 5 cfs, since the first 5 cfs must be released downstream. The simulated inflow from Kellogg Creek was defined as part of the modeling effort conducted for the 2004 Project Planning Report (CCWD, DWR, Reclamation, 2004). For the period of October 1921 to September 2003, Kellogg Creek inflow varies between 0 and 9,000 acre-feet per year, with an average of approximately 1,400 acre-feet per year; 96 percent of the inflow occurs from December to April.

CCWD can divert up to 26,780 acre-feet per year of water from Mallard Slough under its own water rights (SWRCB Water Right License No. 317 and Permit No. 19856). Diversions under this water right are not explicitly modeled in this study. The City of Antioch and several industrial customers of CCWD have water right permits to divert water from the Delta. These diversions are included in the CalSim II model through CCWD's diversions, and to some extent through the Delta Island Consumptive Use (DICU) estimates.

Historically, CCWD has relied on water transfers to supplement its CVP contract allocation. For example, in 2003, CCWD purchased 5,000 acre-feet from Yuba County Water Agency and CCWD regularly uses water under its contract with East Contra Costa Irrigation District. In this modeling analysis, CCWD is assumed to acquire transfers of water in years when its CVP allocation and water available under CCWD's Los Vaqueros water right are insufficient to meet CCWD demand. For modeling purposes, water transfers are limited to in-Delta exchanges, with transfers to CCWD created through reductions in Delta consumptive use. This modeling analysis is consistent with CCWD's Future Water Supply Plan, which anticipates that water transfers plus demand management will be used to meet water supply shortfalls. While CCWD's Future Water Supply Plan also anticipates demand management can be used to partially make up for a water supply shortfall, the modeling analysis for the Draft EIS/EIR and Final EIS/EIR did not assume such rationing would occur in the CCWD service area. This was done intentionally so that the environmental effects of a maximum level of potential CCWD diversions were evaluated in the model analysis.

Operational Constraints

Los Vaqueros Reservoir

As described in Chapter 2.1.2, existing biological opinions for the Los Vaqueros Project impose certain restrictions on operations of the Los Vaqueros system and CCWD's Delta diversions, including an annual 75-day no-fill period and a concurrent 30-day no-diversion period. The default dates for the no-fill and no-diversion periods are March 15 through May 31 and April 1 through April 30, respectively. Per the biological opinions, these restrictions are waived if storage in Los Vaqueros Reservoir is at or below emergency levels of 70 TAF in wet, above-normal, or below normal water years, and 44 TAF in dry or critically dry water years. The DFG ITP requires an additional 15 no-fill days beginning February 15 if Los Vaqueros Reservoir storage is at or above 90 TAF on February 1, or 10 no-fill days beginning February 19 if storage is at or above 80 TAF, or 5 no-fill days beginning Feburary 24 if storage is at or above 70 TAF. In the CalSim II modeling for this Draft EIS/EIR, the default no-fill and no-diversion periods are applied in CCWD operations for the Existing and Future Without Project conditions. For the Existing and Future analysis of Alternatives 1, 2 and 4, the no-fill period is shifted to occur in half of February and all of March and June, and the no-diversion period is shifted to March. The additional February no-fill requirement based on Los Vaqueros Reservoir storage also applies in the alternatives.

In the Existing Without Project conditions, water is preferentially diverted at the Old River and AIP intakes over the Rock Slough intake from January through August, unless this preference results in a reduction in total diversions. This maximizes use of currently screened intakes. In all

other scenarios, the Rock Slough Fish Screen project, which is currently under construction, is assumed to be completed, so all CCWD intakes are screened, eliminating the need for preferential use of the Old River and AIP intakes. In the Future Without Project conditions, diversions are determined based on water quality considerations alone. For the analysis of Alternatives 1, 2 and 4 at existing and future levels of development, the Rock Slough intake is preferentially used from December through March and in June.

The operations model fills Los Vaqueros Reservoir with water from the Delta of up to 65 mg/L chloride concentration. Due to evaporation, it is possible for Los Vaqueros Reservoir to exceed 65 mg/L chloride concentration; under such a circumstance, filling with water above 65 mg/L chloride concentration is allowed as long as it lowers the salinity in the reservoir.

Alternatives 1 & 2

To improve fish screening in Delta diversions, Alternative 1 shifts the pumping of SWP and CVP supplies for South Bay water agencies to the more effectively screened Los Vaqueros Reservoir system intakes from the existing SWP or CVP export facilities. Alternative 1 also provides Delta supply restoration for South Bay water agencies through direct diversions or by making releases from Los Vaqueros Reservoir. Alternative 2 performs the same improved fish screening operations as Alternative 1. It also provides environmental water supplies for refuges, wildlife areas, and wetlands in the San Joaquin Valley.

The operations in Alternatives 1 and 2 are governed by the following rules:

- The CCWD share of Los Vaqueros Reservoir is assumed to be 120 TAF. All CCWD operations for water supply and water quality occur as described in the No Action/No Project Alternative. The other 155 TAF of storage in the expanded Los Vaqueros Resevoir is reserved for use by potential project partners.

- Filling of the CCWD share of Los Vaqueros Reservoir is limited to 200 cfs, as it is in the No Action/No Project Alternative. Filling of the partner share of Los Vaqueros Reservoir occurs with the remaining 470 cfs of filling capacity and can use the full 670 cfs of filling capacity when CCWD is not using its share. All filling is limited by the restrictions imposed by the existing Los Vaqueros Project biological opinions and water quality criteria that govern filling in the No Action/No Project Alternative, including the 75-day no-fill period and X2 restrictions.

- Diversions at the Old River, Victoria Canal, and new Delta intakes for the use of potential partners for either direct delivery to meet Delta supply restoration demands in Alternative 1 or environmental water demands in Alternative 2, or diversion to storage, are limited to excess Delta outflow as defined in the Coordinated Operations Agreement

and also cannot occur if SWP and CVP Delta exports are constrained by D1641[9] or the restrictions on OMR net flow contained in the OCAP BOs.

- A 30-day no-diversion period is observed in the spring of each year at CCWD intakes, other than to meet CCWD service area demands when storage in Los Vaqueros Reservoir is at or below emergency levels. Deliveries to the South Bay water agencies are made through releases from Los Vaqueros Reservoir during these no-diversion periods when storage is available in the partner share of Los Vaqueros Reservoir. The no diversion period is implemented in March in the Final EIS/EIR analysis of Alternatives 1 and 2.

- All deliveries made to the South Bay water agencies through the Los Vaqueros Reservoir system under the improved fish screen operation results in an equivalent reduction in exports at Banks and Jones pumping plants. Diversions for improved fish screen operations at CCWD intakes are limited by the same terms of D1641 and the OCAP BOs that limit exports through Banks and Jones Pumping Plants.

- During periods of suitable water quality (< 65 mg/L chloride at CCWD intakes), filling of the CCWD share Los Vaqueros Reservoir is given priority over deliveries to South Bay water agencies under improved fish screening operations. These operations are performed concurrently when system capacity and Delta water quality allow.

- Deliveries to South Bay water agencies under improved fish screening operations are given priority over deliveries from Los Vaqueros facilities for Delta supply restoration (Alternative 1) or environmental water supply (Alternative 2).

- Delivery of CVP or SWP water supply to South Bay water agencies through the Los Vaqueros system is limited to the exports at Banks Pumping Plant and Jones Pumping Plant that would have been made to the South Bay water agencies in the absence of the project. These deliveries are augmented with Delta Supply Restoration in Alternative 1 only, as described above in the discussion of water demand assumptions.

- Water deliveries to South Bay water agencies that are shifted from Banks and Jones pumping plants to the Los Vaqueros system are diverted from the Delta year-round, with the exception of the 30-day no-diversion period, as described above. Deliveries for Delta Supply Restoration or Environmental water demand are preferentially diverted directly from the Delta when water and diversion capacity are available, or released from the partner share of Los Vaqueros Reservoir when the option of direct delivery is not available.

[9] D-1641 specifies export limits in the form of an E/I ratio, and defines export as the combined inflow rate to Clifton Court Forebay and the export rate of the Jones Pumping Plant. CCWD is considered an in-Delta diverter, not an exporter; therefore the project diversions used by CCWD are not constrained by the E/I ratio. For modeling purposes, water deliveries to South Bay water agencies or San Joaquin Valley wildlife refuges through the Los Vaqueros system in Alternatives 1 and 2 are assumed to be limited by E/I requirements, since water delivered to South Bay water agencies or San Joaquin Valley wildlife refuges is subject to the E/I standard.

Alternative 3

Modeling analysis of Alternative 3 was not performed for the Final EIR/S, as described in the updated Section 4.2.

Alternative 4

Under Alternative 4, CCWD would operate an expanded Los Vaqueros Reservoir for blending purposes and water supply reliability. Operational criteria would be as described for the No Action/No Project Alternative.

C-4 MODEL RESULTS – WATER SUPPLY AND MANAGEMENT

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Tables

Figures

Introduction

This appendix presents a summary of CalSim II model results for the project alternatives. For 2005 level of development, the project alternatives are compared to the Existing Condition. For 2030 level of development, the project alternatives are compared to the Future Without Project condition. This section contains updated results that reflect the modeling assumptions listed in Appendix C3.

2005 Level of Development

Model results for each project alternative are presented in **Table C4-1(A-D)** as average values for the full hydrologic study period (1921 to 2003) and a six-year dry period (1987 to 1992). These results include upstream and Delta flows and diversions (e.g. flow in Sacramento River and major tributaries, San Joaquin River flow, exports at Banks and Jones Pumping Plants, Net Delta Outflow, X2 position and QWEST), CVP and SWP south of Delta deliveries, CVP and SWP reservoir carry-over storages (at Folsom, Oroville, San Luis, Shasta and Trinity Reservoirs), and parameters specific to project alternative operations (CCWD and Los Vaqueros Reservoir (LV) diversions; additional south of Delta Environmental Water Supply deliveries; and Delta Supply Restoration deliveries to South Bay water agencies).

Table C4-2 and **Table C4-3** present the change in Delta channel flows and indices, upstream reservoir storages and local operation parameters for each project alternative as compared to the Existing Condition. Results are summarized in these tables as averages by water year type and by month, respectively.

Table C4-4 (A-D) presents the changes from the Existing Condition in monthly Banks and Jones export diversions for each project alternative, and **Table C4-5 (A-D)** presents the changes from the Existing Condition in monthly CCWD and Los Vaqueros Reservoir (LV) diversions for each project alternative. These tables also indicate whether the Delta is in excess or balanced conditions.

Table C4-6 presents CCWD diversions for each intake and alternative for the 2005 level of development.

Monthly and year type average changes in various Delta parameters (Sacramento River flow at Hood, San Joaquin River flow at Vernalis, Delta Outflow, combined Banks and Jones diversions, and combined CCWD and LV diversions) are presented in **Figure C4-1** through **Figure C4-5** and **Figure C4-10** through **Figure C4-14**, respectively. **Figure C4-6** shows the monthly average Los Vaqueros storage and **Figure C4-7** through **Figure C4-9** show time-series of storage for each alternative and the Existing Conditions.

Figure C4-15 through **Figure C4-20** are exceedence plots of the end of September storage in upstream reservoirs (Trinity, Shasta, Oroville, and Folsom) and San Luis Reservoir (CVP and SWP).

TABLE C4-1:
SUMMARY COMPARISON OF ANNUAL AVERAGE DIVERSIONS, DELIVERIES, RIVER FLOWS, AND CARRYOVER STORAGE, 2005 LOD

(A) ALTERNATIVE 1 COMPARED TO EXISTING CONDITION (NO ACTION)

	Existing Condition		Alternative 1		Difference (Alt – Ex. Cond.)		Percent Difference	
	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92
Diversions (TAF/yr)								
CCWD and LV Diversions	125	130	281	187	157	57	126%	44%
Banks Pumping Plant	2,625	1,425	2,528	1,324	-97	-101	-4%	-7%
Jones Pumping Plant	2,191	1,675	2,147	1,588	-43	-87	-2%	-5%
Total	4,941	3,231	4,957	3,100	16	-131	0%	-4%
Delta (cfs)								
Sacramento River at Hood	22,329	12,370	22,328	12,390	-1	20	0%	0%
San Joaquin River at Vernalis	4,254	1,446	4,254	1,446	0	0	0%	0%
Delta Outflow	22,055	8,470	22,032	8,482	-23	12	0%	0%
QWEST	2,946	320	2,924	308	-22	-12	-1%	-4%
X2 Position (km)	74	82	74	82	0	0	0%	0%
Upstream River Flows (cfs)								
Sacramento River at Keswick Dam	8,628	6,125	8,628	6,139	0	15	0%	0%
American River below Nimbus Dam	3,428	1,655	3,428	1,656	0	1	0%	0%
Feather River below Thermalito	4,393	2,007	4,393	2,004	0	-4	0%	0%
Reservoir Carryover Storage (TAF)								
Trinity	1,403	817	1,405	823	2	6	0%	1%
Shasta	2,719	1,776	2,716	1,772	-2	-4	0%	0%
Oroville	1,767	1,045	1,767	1,027	0	-18	0%	-2%
Folsom	520	295	520	291	0	-4	0%	-1%
CVP San Luis	172	112	175	120	3	8	2%	7%
SWP San Luis	411	339	417	359	6	20	1%	6%
Deliveries (TAF/yr)								
CVP SOD Ag	1,181	346	1,188	339	6	-7	1%	-2%
CVP SOD M&I	160	128	160	128	0	0	0%	0%
SWP Table A + Article 56	3,428	1,771	3,437	1,770	8	-1	0%	0%
SWP Article 21	116	12	113	13	-3	0	-3%	4%
Delta Supply Restoration + Dry Year	0	0	7	1	7	1	NA	NA

(B) ALTERNATIVE 2 COMPARED TO EXISTING CONDITION (NO ACTION)

	Existing Condition		Alternative 2		Difference (Alt – Ex. Cond.)		Percent Difference	
	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92
Diversions (TAF/yr)								
CCWD and LV Diversions	125	130	280	186	155	56	125%	43%
Banks Pumping Plant	2,625	1,425	2,532	1,325	-93	-100	-4%	-7%
Jones Pumping Plant	2,191	1,675	2,149	1,562	-42	-114	-2%	-7%
Total	4,941	3,231	4,961	3,073	20	-158	0%	-5%
Delta (cfs)								
Sacramento River at Hood	22,329	12,370	22,327	12,339	-3	-30	0%	0%
San Joaquin River at Vernalis	4,254	1,446	4,254	1,446	0	0	0%	0%
Delta Outflow	22,055	8,470	22,025	8,469	-30	-2	0%	0%
QWEST	2,946	320	2,918	330	-28	10	-1%	3%
X2 Position (km)	74	82	74	82	0	0	0%	0%
Upstream River Flows (cfs)								
Sacramento River at Keswick Dam	8,628	6,125	8,627	6,132	0	7	0%	0%
American River below Nimbus Dam	3,428	1,655	3,427	1,613	-1	-43	0%	-3%
Feather River below Thermalito	4,393	2,007	4,393	2,002	0	-5	0%	0%
Reservoir Carryover Storage (TAF)								
Trinity	1,403	817	1,406	825	3	8	0%	1%
Shasta	2,719	1,776	2,716	1,771	-2	-5	0%	0%
Oroville	1,767	1,045	1,767	1,028	0	-17	0%	-2%
Folsom	520	295	521	313	1	18	0%	6%
CVP San Luis	172	112	175	120	3	8	1%	7%
SWP San Luis	411	339	417	358	6	19	1%	6%
Deliveries (TAF/yr)								
CVP SOD Ag	1,181	346	1,187	319	5	-27	0%	-8%
CVP SOD M&I	160	128	160	125	0	-3	0%	-2%
SWP Table A + Article 56	3,428	1,771	3,438	1,774	9	2	0%	0%
SWP Article 21	116	12	113	13	-3	0	-3%	4%

TABLE C4-1:
SUMMARY COMPARISON OF ANNUAL AVERAGE DIVERSIONS, DELIVERIES, RIVER FLOWS, AND CARRYOVER STORAGE, 2005 LOD

Additional SOD Env Water Supply	0	0	15	0	15	0	NA	NA

(D) ALTERNATIVE 4 COMPARED TO EXISTING CONDITION (NO ACTION)

	Existing Condition		Alternative 4		Difference (Alt – Ex. Cond.)		Percent Difference	
	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92
Diversions (TAF/yr)								
CCWD and LV Diversions	125	130	126	124	1	-6	1%	-4%
Banks Pumping Plant	2,625	1,425	2,634	1,361	9	-65	0%	-5%
Jones Pumping Plant	2,191	1,675	2,194	1,605	3	-70	0%	-4%
Total	4,941	3,231	4,954	3,090	14	-140	0%	-4%
Delta (cfs)								
Sacramento River at Hood	22,329	12,370	22,331	12,361	2	-9	0%	0%
San Joaquin River at Vernalis	4,254	1,446	4,254	1,446	0	0	0%	0%
Delta Outflow	22,055	8,470	22,035	8,464	-20	-6	0%	0%
QWEST	2,946	320	2,928	319	-18	-1	-1%	0%
X2 Position (km)	74	82	74	82	0	0	0%	0%
Upstream River Flows (cfs)								
Sacramento River at Keswick Dam	8,628	6,125	8,628	6,114	0	-10	0%	0%
American River below Nimbus Dam	3,428	1,655	3,428	1,659	0	3	0%	0%
Feather River below Thermalito	4,393	2,007	4,393	1,994	0	-13	0%	-1%
Reservoir Carryover Storage (TAF)								
Trinity	1,403	817	1,404	807	0	-10	0%	-1%
Shasta	2,719	1,776	2,715	1,777	-4	1	0%	0%
Oroville	1,767	1,045	1,765	1,017	-2	-28	0%	-3%
Folsom	520	295	520	298	0	2	0%	1%
CVP San Luis	172	112	175	116	3	4	2%	3%
SWP San Luis	411	339	418	354	7	15	2%	4%
Deliveries (TAF/yr)								
CVP SOD Ag	1,181	346	1,185	327	4	-18	0%	-5%
CVP SOD M&I	160	128	160	127	0	-1	0%	-1%
SWP Table A + Article 56	3,428	1,771	3,441	1,802	12	31	0%	2%
SWP Article 21	116	12	114	12	-2	0	-2%	1%

TABLE C4-2:
ANNUAL VALUES BY WATER YEAR TYPE, 2005 LOD

Parameter	Long Term Average	Wet	Above Normal	Below Normal	Dry	Critical
CCWD and LV Diversions (TAF/yr)						
Average Total Diversions Existing Condition	**125**	**140**	**131**	**112**	**123**	**125**
Changes under Alternative 1	157	224	177	139	116	71
Changes under Alternative 2	155	221	177	139	115	70
Changes under Alternative 4	1	7	12	2	-7	-12
Improved Fish Screening Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	145	193	168	134	116	75
Changes under Alternative 2	140	181	167	132	114	75
Changes under Alternative 4	0	0	0	0	0	0
Delta (cfs)						
Sacramento River at Hood Existing Condition	**22,329**	**25,754**	**17,928**	**14,969**	**10,973**	**22,329**
Changes under Alternative 1	-1	5	-6	-2	-2	-1
Changes under Alternative 2	-3	12	-6	-1	-23	-3
Changes under Alternative 4	2	10	2	-11	-19	2
San Joaquin River at Vernalis Existing Condition	**4,254**	**4,002**	**3,351**	**2,283**	**1,681**	**4,254**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
Delta Outflow Existing Condition	**22,055**	**24,279**	**14,194**	**10,400**	**7,076**	**22,055**
Changes under Alternative 1	-23	-25	-21	-6	1	-23
Changes under Alternative 2	-30	-24	-26	-10	-4	-30
Changes under Alternative 4	-20	-33	-30	-7	-9	-20
Banks Pumping Plant Existing Condition	**3,619**	**3,948**	**3,648**	**3,065**	**1,968**	**3,619**
Changes under Alternative 1	-135	-149	-135	-117	-63	-135

TABLE C4-2:
ANNUAL VALUES BY WATER YEAR TYPE, 2005 LOD

Parameter	Long Term Average	Wet	Above Normal	Below Normal	Dry	Critical
Changes under Alternative 2	-129	-145	-131	-114	-63	-129
Changes under Alternative 4	13	16	20	3	6	13
Jones Pumping Plant Existing Condition	**3,022**	**3,119**	**3,048**	**2,838**	**2,209**	**3,022**
Changes under Alternative 1	-60	-62	-43	-42	-40	-60
Changes under Alternative 2	-58	-60	-42	-38	-55	-58
Changes under Alternative 4	5	8	9	0	-6	5
Banks + Jones Exports Existing Condition	**6,642**	**7,067**	**6,696**	**5,902**	**4,177**	**6,642**
Changes under Alternative 1	-195	-211	-178	-159	-104	-195
Changes under Alternative 2	-186	-204	-173	-152	-118	-186
Changes under Alternative 4	18	24	28	3	0	18
Banks + Jones + CCWD + LV Diversions Existing Condition	**6,814**	**7,260**	**6,876**	**6,056**	**4,346**	**6,814**
Changes under Alternative 1	22	34	14	2	-5	22
Changes under Alternative 2	28	40	18	7	-21	28
Changes under Alternative 4	19	41	30	-6	-16	19
QWEST Existing Condition	**2,946**	**3,011**	**1,134**	**-8**	**172**	**2,946**
Changes under Alternative 1	-22	-32	-4	-5	-1	-22
Changes under Alternative 2	-28	-32	-8	-10	8	-28
Changes under Alternative 4	-18	-35	-20	4	3	-18
X2 Position (km) Existing Condition	**74**	**72**	**76**	**79**	**83**	**74**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
Upstream River Flows (cfs)						
Sacramento River at Keswick Existing Condition	**8,628**	**8,966**	**6,994**	**6,716**	**6,298**	**8,628**
Changes under Alternative 1	0	0	-3	0	6	0
Changes under Alternative 2	0	-6	-3	0	3	0
Changes under Alternative 4	0	2	-1	-9	-6	0
American River below Nimbus Existing Condition	**3,428**	**3,851**	**2,825**	**2,088**	**1,413**	**3,428**
Changes under Alternative 1	0	1	1	1	-3	0
Changes under Alternative 2	-1	15	1	1	-21	-1
Changes under Alternative 4	0	2	2	-1	-3	0
Feather River below Thermalito Existing Condition	**4,393**	**4,615**	**3,203**	**2,886**	**2,217**	**4,393**
Changes under Alternative 1	0	8	-3	-2	-8	0
Changes under Alternative 2	0	8	-1	-2	-9	0
Changes under Alternative 4	0	4	2	-2	-13	0
Reservoir Carryover Storage (TAF)						
Trinity Existing Condition	**1,403**	**1,644**	**1,267**	**1,134**	**724**	**1,403**
Changes under Alternative 1	2	-2	5	4	3	2
Changes under Alternative 2	3	4	5	4	8	3
Changes under Alternative 4	0	-1	5	2	-2	0
Shasta Existing Condition	**2,719**	**3,123**	**2,892**	**2,478**	**1,322**	**2,719**
Changes under Alternative 1	-2	0	-12	1	-2	-2
Changes under Alternative 2	-2	1	-13	0	-1	-2
Changes under Alternative 4	-4	-2	-14	1	3	-4
Oroville Existing Condition	**1,767**	**1,944**	**1,834**	**1,203**	**913**	**1,767**
Changes under Alternative 1	0	-2	5	2	-2	0
Changes under Alternative 2	0	-2	5	2	-2	0
Changes under Alternative 4	-2	-3	2	-1	-5	-2
Folsom Existing Condition	**520**	**582**	**606**	**451**	**257**	**520**
Changes under Alternative 1	0	0	0	-1	0	0
Changes under Alternative 2	1	0	0	-1	11	1
Changes under Alternative 4	0	-1	-1	1	3	0
CVP San Luis Existing Condition	**172**	**125**	**211**	**136**	**177**	**172**
Changes under Alternative 1	3	2	4	2	4	3
Changes under Alternative 2	3	2	4	2	3	3
Changes under Alternative 4	3	3	5	1	3	3
SWP San Luis Existing Condition	**411**	**445**	**272**	**378**	**268**	**411**
Changes under Alternative 1	6	8	16	0	1	6
Changes under Alternative 2	6	9	16	1	0	6
Changes under Alternative 4	7	7	19	2	-1	7
CVP and SWP Deliveries (TAF/year)						
CVP SOD Ag Existing Condition	**1,181**	**1,309**	**1,060**	**859**	**419**	**1,181**
Changes under Alternative 1	6	13	7	9	0	6

TABLE C4-2:
ANNUAL VALUES BY WATER YEAR TYPE, 2005 LOD

Parameter	Long Term Average	Wet	Above Normal	Below Normal	Dry	Critical
Changes under Alternative 2	5	15	7	9	-9	5
Changes under Alternative 4	4	7	7	3	-4	4
CVP SOD M&I Existing Condition	**160**	**163**	**158**	**151**	**130**	**160**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	0	1	0	0	-1	0
Changes under Alternative 4	0	0	0	0	0	0
SWP Table A + Article 56 Existing Condition	**3,428**	**3,579**	**3,672**	**2,970**	**1,953**	**3,428**
Changes under Alternative 1	8	4	6	12	8	8
Changes under Alternative 2	9	5	6	13	10	9
Changes under Alternative 4	12	9	1	15	24	12
SWP Article 21 Existing Condition	**116**	**111**	**68**	**59**	**40**	**116**
Changes under Alternative 1	-3	6	-20	-8	1	-3
Changes under Alternative 2	-3	6	-20	-8	1	-3
Changes under Alternative 4	0	4	0	-5	0	0
Improved Fish Screening for CVP South Bay	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	67	76	52	53	39	67
Changes under Alternative 2	63	75	51	49	39	63
Changes under Alternative 4	0	0	0	0	0	0
Improved Fish Screening for SWP South Bay	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	141	161	137	116	65	141
Changes under Alternative 2	136	159	134	113	65	136
Changes under Alternative 4	0	0	0	0	0	0
CVP Delta Supply Restoration Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	2	2	1	2	0	2
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
SWP Delta Supply Restoration Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	5	4	3	8	1	5
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
Additional CVP SOD Environmental Water from Dedicated Storage Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	15	34	7	8	9	0
Changes under Alternative 4	0	0	0	0	0	0

TABLE C4-3:
AVERAGE MONTHLY VALUES, 2005 LOD

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
CCWD and LV Diversions (TAF)												
Average Total Diversions Existing Condition	**10**	**8**	**7**	**7**	**7**	**6**	**3**	**10**	**21**	**20**	**16**	**11**
Changes under Alternative 1	15	14	15	16	14	-5	18	14	10	18	14	15
Changes under Alternative 2	15	14	14	16	14	-5	18	14	9	18	14	15
Changes under Alternative 4	1	0	0	0	-1	-5	8	3	-8	1	1	1
Improved Fish Screening Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	14	11	13	15	14	0	9	10	17	15	12	14
Changes under Alternative 2	13	10	13	14	14	0	9	10	16	15	12	14
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Delta (cfs)												
Sacramento River at Hood Existing Condition	**11,607**	**15,153**	**26,079**	**32,967**	**39,046**	**33,535**	**23,278**	**19,083**	**16,245**	**18,904**	**15,666**	**16,390**
Changes under Alternative 1	-2	-31	-29	21	-4	14	-22	7	58	0	-16	-13
Changes under Alternative 2	5	-29	-29	20	-4	13	-20	11	57	-30	-15	-13
Changes under Alternative 4	2	-12	-2	-5	2	11	-19	13	42	-2	-10	1
San Joaquin River at Vernalis Existing Condition	**2,815**	**2,484**	**3,246**	**4,704**	**6,285**	**6,547**	**6,399**	**6,418**	**4,601**	**3,194**	**2,052**	**2,299**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Delta Outflow Existing Condition	**7,102**	**11,178**	**23,773**	**41,723**	**51,806**	**42,136**	**29,869**	**22,576**	**12,616**	**7,850**	**5,810**	**8,224**
Changes under Alternative 1	-27	-72	31	-65	-31	161	-170	-47	10	-44	-7	-13
Changes under Alternative 2	-31	-87	29	-74	-40	125	-171	-49	1	-36	-14	-15
Changes under Alternative 4	-19	-36	20	-71	-23	72	-160	-30	17	-16	-1	2
Banks Pumping Plant Existing Condition	**2,988**	**2,917**	**4,779**	**3,569**	**4,130**	**3,894**	**995**	**1,097**	**2,449**	**6,142**	**5,453**	**5,023**
Changes under Alternative 1	-137	-73	-138	-141	-192	-49	-108	-145	-99	-171	-179	-184
Changes under Alternative 2	-129	-59	-137	-131	-185	-32	-107	-143	-90	-171	-180	-181
Changes under Alternative 4	-3	20	5	37	32	6	0	-1	85	-3	-11	-14
Jones Pumping Plant Existing Condition	**3,365**	**3,687**	**3,750**	**3,207**	**3,145**	**2,794**	**997**	**1,078**	**2,364**	**3,975**	**3,896**	**4,010**
Changes under Alternative 1	-76	-120	-129	-48	-21	-24	-42	-24	-18	-82	-58	-74
Changes under Alternative 2	-72	-113	-117	-45	-18	-7	-42	-24	-9	-120	-50	-75
Changes under Alternative 4	14	-4	-22	15	13	10	0	0	74	-13	-22	-3
Banks + Jones Exports Existing Condition	**6,353**	**6,604**	**8,529**	**6,776**	**7,274**	**6,688**	**1,991**	**2,175**	**4,813**	**10,117**	**9,349**	**9,034**
Changes under Alternative 1	-213	-193	-268	-189	-213	-73	-151	-170	-116	-253	-238	-258
Changes under Alternative 2	-201	-172	-254	-176	-203	-38	-149	-167	-99	-290	-230	-256
Changes under Alternative 4	11	15	-17	52	45	15	0	-1	159	-17	-33	-17
Banks + Jones + CCWD + LV Diversions Existing Condition	**6,511**	**6,731**	**8,646**	**6,883**	**7,395**	**6,792**	**2,035**	**2,344**	**5,160**	**10,446**	**9,604**	**9,217**
Changes under Alternative 1	26	40	-31	69	33	-147	148	54	48	42	-15	-1
Changes under Alternative 2	36	58	-28	81	41	-112	152	60	56	3	-7	1
Changes under Alternative 4	22	23	-17	52	22	-66	140	43	26	7	-20	-3
QWEST Existing Condition	**310**	**139**	**452**	**5,850**	**7,993**	**7,001**	**9,030**	**7,479**	**3,201**	**-2,094**	**-2,350**	**-1,662**
Changes under Alternative 1	-22	-30	26	-66	-33	149	-151	-53	-33	-45	5	-4
Changes under Alternative 2	-26	-44	23	-78	-42	114	-154	-58	-41	-15	-3	-7
Changes under Alternative 4	-14	-4	18	-53	-22	67	-143	-41	-15	-14	7	1
X2 Position (km) Existing Condition	**83**	**83**	**80**	**76**	**69**	**64**	**64**	**66**	**69**	**74**	**79**	**83**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0

TABLE C4-3:
AVERAGE MONTHLY VALUES, 2005 LOD

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
E/I Ratio Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Upstream River Flows (cfs)												
Sacramento River at Keswick Existing Condition	**6,492**	**6,024**	**7,737**	**8,303**	**10,399**	**8,581**	**6,802**	**7,834**	**10,623**	**13,044**	**10,365**	**7,330**
Changes under Alternative 1	22	-24	3	-2	-5	-10	16	6	2	-11	-5	7
Changes under Alternative 2	21	-38	2	1	-4	-12	17	11	3	8	-17	4
Changes under Alternative 4	29	-20	3	-8	-15	-13	16	13	0	-5	-5	8
American River below Nimbus Existing Condition	**1,629**	**2,699**	**3,520**	**4,411**	**5,243**	**3,790**	**3,301**	**3,598**	**3,737**	**3,743**	**2,704**	**2,758**
Changes under Alternative 1	-3	1	1	1	0	-3	4	1	-10	6	-5	7
Changes under Alternative 2	4	17	1	2	0	-3	6	1	-11	-43	10	9
Changes under Alternative 4	15	3	3	-15	0	-3	6	2	-14	4	-12	11
Feather River below Thermalito Existing Condition	**2,997**	**2,244**	**4,276**	**4,026**	**5,380**	**5,561**	**3,024**	**3,592**	**3,646**	**7,543**	**5,975**	**4,451**
Changes under Alternative 1	-21	-8	-5	5	9	0	1	4	44	4	-10	-29
Changes under Alternative 2	-21	-9	-4	5	8	4	1	4	47	5	-12	-26
Changes under Alternative 4	-43	5	-3	5	16	-3	2	2	34	-1	2	-20
CVP and SWP Deliveries (TAF)												
CVP SOD Ag Existing Condition	**439**	**337**	**466**	**818**	**1,023**	**621**	**1,009**	**1,449**	**2,417**	**2,906**	**2,003**	**687**
Changes under Alternative 1	4	1	2	3	4	2	5	6	11	14	23	3
Changes under Alternative 2	4	1	2	4	4	2	5	7	11	-1	22	3
Changes under Alternative 4	3	1	1	2	2	1	2	4	6	8	14	2
CVP SOD M&I Existing Condition	**141**	**191**	**189**	**125**	**64**	**188**	**163**	**146**	**151**	**171**	**181**	**213**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	-2	1	0
Changes under Alternative 4	1	0	0	0	0	0	0	0	0	0	0	0
SWP Table A + Article 56 Existing Condition	**2,987**	**2,630**	**2,372**	**2,282**	**2,685**	**2,401**	**3,059**	**3,723**	**4,752**	**5,402**	**5,171**	**3,678**
Changes under Alternative 1	2	4	4	24	25	21	4	1	24	-3	-3	-2
Changes under Alternative 2	3	5	4	24	27	21	5	4	26	-2	-2	-2
Changes under Alternative 4	5	12	1	30	24	23	7	9	30	3	1	2
SWP Article 21 Existing Condition	**33**	**46**	**63**	**154**	**362**	**503**	**71**	**60**	**39**	**33**	**4**	**24**
Changes under Alternative 1	0	0	-4	4	-43	4	0	0	0	0	1	0
Changes under Alternative 2	0	0	-4	4	-43	1	0	0	0	0	1	0
Changes under Alternative 4	0	1	-4	5	-4	1	0	0	0	0	0	0
Improved Fish Screening for CVP South Bay Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	82	113	127	57	40	33	42	24	100	68	48	75
Changes under Alternative 2	82	105	116	56	38	16	42	24	91	67	47	75
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Improved Fish Screening for SWP South Bay Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	140	73	91	180	216	57	108	146	193	178	152	158
Changes under Alternative 2	136	60	91	172	208	40	107	143	185	178	152	155
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
CVP South Bay Delta Supply Restoration	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TABLE C4-3:
AVERAGE MONTHLY VALUES, 2005 LOD

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Existing Condition												
Changes under Alternative 1	1	3	3	3	2	4	1	1	2	0	1	1
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
SWP South Bay Delta Supply Restoration Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	5	10	10	1	2	4	1	4	14	1	6	7
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Additional CVP SOD Environmental Water from Dedicated Storage Existing Condition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	12	45	27	13	19	8	1	10	29	2	2	14
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0

TABLE C4-4:
CHANGES IN BANKS + JONES EXPORTS (CFS), 2005 LOD

(A) Alternative 1

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-338	-179	-24	-204	-90	88	-285	-308	-296	-400	-400	-400
1923	-313	-335	-308	-303	-307	0	-194	-181	-353	-382	-81	-124
1924	-123	-154	-211	-233	-205	0	0	0	4	-144	-44	-14
1925	-52	-56	-1372	1032	-106	64	-92	-51	-301	-153	-50	-115
1926	-208	-170	-105	-113	-164	0	-76	-174	-27	-130	88	-14
1927	-51	-30	-259	-134	-77	38	-104	-175	-131	-396	-343	-403
1928	-287	-292	-268	-317	-313	85	-114	-177	-255	-397	-395	-397
1929	-278	-278	-268	-221	-354	38	-60	-101	-72	-196	-39	-199
1930	-168	-177	-156	-114	74	38	-74	-115	68	-338	-137	-188
1931	-180	-88	-106	-111	-106	0	0	0	0	-457	0	-14
1932	-52	-86	-98	-151	-107	50	0	-125	55	-154	-150	-194
1933	-158	-88	-109	-113	-107	0	-79	-128	0	-205	-1	-201
1934	-56	-88	-93	-103	-6	52	0	0	5	-336	0	-162
1935	73	-114	-96	-103	-96	0	-103	-80	-44	-379	-177	-25
1936	-56	-96	-118	-135	-439	38	-168	-174	-58	-219	-45	-129
1937	-171	-183	-260	-180	-163	-270	-266	-300	-225	-401	-266	0
1938	-234	-153	-289	-285	-396	0	-347	0	-353	-400	-400	-400
1939	-400	-239	-351	-228	-397	-400	-197	-266	-159	1	-168	-211
1940	-203	-132	-104	-120	-176	38	-271	-196	-53	-385	-213	-561
1941	-317	-303	-232	-236	-258	-9	-320	-385	-322	-399	-400	-400
1942	-369	-230	-348	-324	-216	33	-297	-342	-306	-400	-400	-400
1943	-325	-344	-320	-333	-300	0	-310	-199	-381	-400	-400	-400
1944	-347	-231	-335	-221	-370	0	-96	-137	20	-332	-312	-348
1945	-189	-132	-3217	-228	-159	215	-108	-180	-80	-219	-10	837
1946	-180	-139	-122	-285	-539	38	-133	-174	-54	-251	28	-210
1947	324	-245	-229	-135	-400	0	-117	-93	-49	-63	-186	-360
1948	169	-16	-858	-111	-90	0	-78	-180	-192	-467	-8	6
1949	-48	-93	-114	-135	-149	0	-129	-184	-242	-207	-184	-226
1950	-177	-547	-92	-113	-169	38	-128	-183	189	-219	92	-107
1951	-55	-29	0	-170	-27	-267	-105	-182	-293	-208	-326	-400
1952	-318	-319	-299	-321	-315	0	-343	-400	-302	0	-400	-400
1953	-387	-238	-361	-310	-289	-334	-120	-161	-115	-374	-388	-391
1954	-289	-190	-281	-162	-108	-5	-126	-181	-241	-337	-320	-398
1955	-342	-331	-284	-175	-128	1	-68	-106	-207	-295	-515	-405
1956	-201	-218	-221	-179	-213	-7	-139	-216	-150	-400	-400	-400
1957	-366	-232	-347	-221	-400	0	-101	-145	200	-359	-369	-669
1958	-239	-151	-145	-150	-148	0	-347	-400	-359	-400	-400	-400
1959	-400	-238	-374	-224	-145	1	-103	-148	37	-371	-123	-151
1960	-182	-305	-207	-180	-162	0	-116	-166	89	1	-187	-346
1961	-353	-82	-90	-113	-199	38	-117	-157	1173	0	-194	-1917
1962	879	35	-106	-111	-191	0	-122	-132	189	-218	-32	59
1963	0	0	-198	-276	-134	-168	-120	-101	-262	-398	-195	-375
1964	-313	-302	231	-293	-226	-174	0	-33	-242	-24	-643	-200
1965	-217	-210	-235	-125	99	38	-151	-198	-80	-400	-400	-400
1966	-355	-364	-342	-317	-308	0	-189	-137	-177	-311	-17	-301
1967	-211	-213	-238	-160	61	38	-323	-321	-353	0	-400	-400
1968	-371	-393	-350	-226	-319	-378	-248	-164	-88	-374	-38	-123
1969	-211	-201	-153	-272	-222	-94	-348	0	-353	-400	-400	-405
1970	-398	-239	-367	0	-306	-391	-121	-180	-249	-398	-400	-482
1971	-300	-301	-294	-312	-302	-305	-139	-163	-219	-419	-319	-361
1972	-275	-131	0	-195	-136	-249	-124	-181	-161	-292	19	-157
1973	-194	-150	-267	-262	-217	38	-105	-111	-53	-390	-276	-531
1974	-286	0	258	-288	-293	-297	-158	-203	-257	-400	-400	-400
1975	-339	-215	-324	-207	-358	-27	-213	-175	-255	-399	-400	-399
1976	-383	-175	-281	-184	-217	0	-110	-157	-138	-138	-201	-351
1977	-10	-147	-89	-103	-112	-1	0	-31	0	0	-71	-14
1978	-50	-84	-102	-98	-32	0	-322	-321	-80	-400	-214	-244
1979	-391	-376	-351	-400	-314	0	-239	-309	-219	-381	-29	-125
1980	-169	-186	0	-275	-166	-4	-278	-268	-381	-400	-400	-400
1981	-384	-381	-294	-228	-230	109	-291	-155	-73	2	-180	-241
1982	-194	-134	-205	-129	-15	-102	-27	-321	-33	-400	-400	0
1983	0	0	-603	-395	-490	-422	-215	-365	-368	-372	-348	-361
1984	-362	-365	-367	-395	-414	-355	-122	-192	-249	-398	-400	-409
1985	-339	-107	-300	-309	-305	-269	-116	0	-146	-61	-532	-143
1986	-191	-183	-195	-388	-388	-357	-300	-321	-353	-400	-218	-224
1987	-634	-206	-326	-226	-162	-167	-55	-86	89	46	-197	-140
1988	-196	-210	-200	-159	-47	-1	-47	-79	-66	-63	-74	-4
1989	-166	-112	61	-103	-76	0	-107	-173	-38	-161	-49	419
1990	-49	-270	-106	-111	-313	0	0	-51	5	-42	-273	-14
1991	101	-85	-278	-70	-44	0	-57	-94	0	-521	110	-14
1992	-52	-85	-74	-86	-76	0	-53	0	91	1479	-1377	-197
1993	-52	-85	-103	-155	-105	0	-113	-188	-79	-394	-209	-233
1994	-312	-370	-128	-230	-400	38	-84	-125	79	-151	-211	-189
1995	-199	-186	-159	-214	-70	0	-329	0	-207	0	1	-252
1996	-456	-289	-367	-273	-206	-300	-223	-350	-260	-401	-401	-400
1997	-332	-344	-322	0	-398	-391	-122	-203	-249	-400	-400	-400
1998	-350	-435	-328	-296	-275	-331	-317	-400	-354	0	-1	0
1999	-698	-293	-361	-314	-302	-366	-249	-201	-254	-385	-398	-399
2000	-288	-169	-264	-220	-392	-265	-127	-171	-42	-411	-400	-400
2001	-292	-292	-267	-221	-335	-284	-54	-68	82	-535	-137	-135
2002	-196	-158	-206	-72	-45	-210	-108	-179	-58	1	-156	-347
2003	-350	95	-270	-350	-350	38	-101	-146	100	-246	-212	-266
Average	**-213**	**-193**	**-268**	**-189**	**-213**	**-73**	**-151**	**-170**	**-116**	**-253**	**-238**	**-258**

TABLE C4-4:
CHANGES IN BANKS + JONES EXPORTS (CFS), 2005 LOD

(B) Alternative 2

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-338	-179	-24	-204	-90	88	-285	-308	-296	-400	-400	-400
1923	-313	-334	-308	-303	-307	0	-194	-181	-353	-382	-81	-124
1924	-123	-154	-211	-233	-205	0	0	0	4	-142	-44	-14
1925	-52	-59	-1373	1032	-106	64	-92	-51	-301	-154	-51	-115
1926	-208	-170	-105	-113	-164	0	-76	-174	-27	-128	90	-15
1927	-51	0	-259	-134	-77	38	-104	-175	-131	-396	-343	-403
1928	-286	-292	-268	-317	-313	85	-114	-177	-255	-397	-395	-397
1929	-278	-279	-268	-221	-354	38	-60	-101	-72	-196	-39	-199
1930	-168	-181	-156	-114	74	38	-74	-115	68	-334	-137	-188
1931	-180	-88	-106	-111	-106	0	0	0	0	-456	0	-14
1932	-52	-86	-98	-151	-107	50	0	-125	55	-154	-150	-194
1933	-159	-88	-109	-113	-107	0	-79	-128	0	-205	-1	-201
1934	-56	-88	-94	-103	-6	51	0	0	5	-339	0	-162
1935	59	25	-98	-103	-97	0	-103	-80	-45	-380	-177	-24
1936	-55	-96	-119	-135	-438	38	-168	-174	-58	-219	-44	-129
1937	-172	-183	-260	-180	-109	-279	-265	-300	-225	-402	-265	1
1938	-234	0	-289	-285	-342	0	-347	0	-230	-400	-400	-400
1939	-400	-240	-259	-228	-341	-238	-305	-246	-159	1	-168	-203
1940	-203	-132	-105	-120	-176	38	-271	-196	-53	-385	-213	-559
1941	-318	-304	-229	-236	-258	0	-320	-385	-322	-399	-400	-400
1942	-370	-230	-348	-317	-216	39	-297	-342	-306	-400	-400	-400
1943	-326	-345	-320	-317	-308	0	-310	-199	-381	-400	-400	-400
1944	-347	-231	-335	-221	-370	0	-96	-137	20	-332	-312	-349
1945	-189	0	-3217	-228	-159	215	-108	-180	-80	-219	-10	837
1946	-180	0	-122	-285	-539	38	-132	-174	-55	-251	28	-210
1947	318	-252	-229	-135	-400	0	-117	-93	-49	-63	-186	-350
1948	164	-18	-826	-111	-90	0	-78	-180	-192	-469	-7	5
1949	-48	-93	-115	-135	-149	0	-129	-184	-242	-207	-183	-226
1950	-177	-549	-93	-113	-169	38	-128	-183	189	-219	88	-104
1951	-55	0	0	-170	-29	-141	-105	-182	-297	-210	-325	-400
1952	-318	-319	-299	-319	-315	0	-343	-400	-302	0	-400	-400
1953	-387	-155	-259	-264	-245	-148	-120	-161	-115	-374	-388	-392
1954	-290	-190	-269	-162	-108	84	-126	-181	-241	-340	-320	-398
1955	-341	-331	-282	-175	-128	1	-68	-106	-207	-295	-517	-403
1956	-201	-218	-221	-136	-213	2	-139	-216	-150	-400	-400	-400
1957	-366	-232	-347	-221	-400	0	-101	-145	200	-359	-369	-669
1958	-239	-148	-146	-150	-148	0	-347	-400	-359	-400	-400	-400
1959	-400	-238	-374	-224	-145	1	-103	-148	37	-371	-123	-151
1960	-182	-306	-206	-180	-162	0	-116	-166	89	1	-187	-346
1961	-352	-82	-90	-113	-199	38	-116	-157	1173	0	-195	-1917
1962	879	35	-106	-111	-191	0	-122	-132	189	-218	-32	59
1963	0	0	-198	-276	-134	-80	-120	-101	-275	-398	-195	-375
1964	-313	-154	231	-280	-226	1	0	-37	-242	-23	-863	-200
1965	-218	-215	-235	-125	99	38	-151	-198	-80	-400	-400	-400
1966	-355	-364	-342	-317	-308	0	-189	-137	-177	-311	-17	-301
1967	-211	-216	-238	-160	61	38	-323	-321	-230	0	-400	-400
1968	-371	-394	-259	-226	-264	-106	-248	-164	-88	-374	-41	-128
1969	-212	-203	-75	-272	-222	-92	-348	0	-230	-400	-400	-404
1970	-399	-239	-259	0	-249	-349	-121	-180	-127	-397	-400	-477
1971	-301	-261	-293	-318	-305	86	-139	-163	-219	-419	-321	-361
1972	-275	-129	0	-195	-136	-249	-124	-181	-211	-286	20	-157
1973	-194	0	-267	-262	-217	38	-105	-112	-53	-390	-276	-530
1974	-286	0	263	-250	-248	-98	-158	-203	-304	-400	-400	-400
1975	-339	-215	-324	-207	-360	0	-225	-175	-255	-399	-400	-399
1976	-436	-175	-281	-184	-217	0	-111	-159	-138	-140	-204	-360
1977	-9	-127	-62	-103	-113	-1	0	-30	1	0	-46	-14
1978	-50	-84	-99	-97	-32	0	-323	-321	-80	-400	-214	-244
1979	-391	-377	-351	-400	-314	0	-240	-309	-219	-381	-29	-128
1980	-173	-187	0	-290	-113	-5	-278	-268	-381	-400	-400	-400
1981	-385	-381	-294	-228	-230	109	-291	-155	-73	2	-180	-241
1982	-194	0	-205	-129	-15	-102	0	-321	90	-400	-400	0
1983	0	0	-495	0	-425	-339	0	-150	-230	-348	-338	-126
1984	-82	-155	-259	-345	-349	-350	-122	-192	-126	-397	-400	-409
1985	-339	0	-259	-263	-249	-237	-116	0	-84	-58	-531	-120
1986	-110	-176	-196	-345	-340	-122	-300	-321	-400	-400	-218	-228
1987	-575	-206	-326	-226	-163	0	-55	-86	89	45	-212	-143
1988	-196	-210	-200	-158	-47	-1	-47	-79	-66	-97	-97	-4
1989	-132	-134	90	-103	-76	0	-107	-173	-39	-157	-45	431
1990	-49	-280	-106	-111	-312	0	0	-51	5	-39	-281	-14
1991	106	-85	-285	-70	-44	0	-57	-94	0	-502	103	-14
1992	-50	-85	-75	270	-76	0	-54	0	89	-1645	-707	-197
1993	475	123	-49	-156	-106	0	-114	-189	-79	-390	-206	-227
1994	-316	-316	-127	-230	-400	38	-83	-125	79	-151	-213	-197
1995	-213	-175	-147	-213	-69	0	-329	0	-102	0	1	-252
1996	-450	-289	-259	-273	-206	-270	-223	-350	-137	-401	-401	-400
1997	-332	-336	-322	0	-341	-350	-122	-203	-126	-400	-400	-400
1998	-350	-420	-329	-298	-277	0	-317	-400	-231	0	-1	0
1999	-699	0	-259	-264	-245	-370	-236	-178	-131	-385	-398	-399
2000	-289	-169	-264	-220	-343	-338	-126	-171	51	-410	-399	-400
2001	-292	-291	-267	-221	-297	-285	-54	-68	82	-515	-136	-139
2002	-196	-165	-206	-72	-54	38	-108	-179	-58	1	-163	-332
2003	-326	-199	-270	-350	-350	38	-101	-147	100	-248	-213	-326
Average	**-201**	**-172**	**-254**	**-176**	**-203**	**-38**	**-149**	**-167**	**-99**	**-290**	**-230**	**-256**

TABLE C4-4:
CHANGES IN BANKS + JONES EXPORTS (CFS), 2005 LOD

(D) Alternative 4

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-61	-177	171	-148	56	88	0	0	104	-1	0	0
1923	-7	-1	0	95	93	0	0	0	16	1	-22	2
1924	8	5	3	0	0	0	0	0	118	-165	0	171
1925	150	80	-35	203	0	63	0	0	-106	118	-67	30
1926	-157	28	0	-2	0	0	0	0	320	-128	-13	0
1927	0	0	0	120	131	38	0	0	250	0	-113	4
1928	-2	-4	2	-118	82	84	0	0	117	4	89	0
1929	5	-38	0	-10	0	38	0	-2	4	37	2	-38
1930	-20	-4	-14	0	149	38	0	0	320	-163	-42	47
1931	18	111	107	113	0	0	0	0	0	-781	0	0
1932	0	116	0	0	-1	60	0	0	164	16	-11	3
1933	13	0	-3	0	0	0	0	0	0	255	0	-67
1934	-4	44	3	0	100	51	0	0	111	-191	0	40
1935	10	-8	3	0	1	0	0	0	320	-2	-80	2
1936	-1	1	-1	0	-263	38	0	0	320	-1	0	0
1937	8	7	-6	13	-1	-227	0	0	176	-2	-52	1
1938	-29	0	0	115	-1	0	0	0	0	0	-121	0
1939	-2	-1	0	-7	1	0	0	0	0	-1	0	42
1940	-17	49	98	103	0	38	0	0	320	19	1	-304
1941	-4	5	84	74	0	0	0	0	78	1	0	0
1942	-4	0	0	48	84	40	0	0	94	0	0	0
1943	-1	0	0	58	92	0	0	0	19	0	0	0
1944	1	0	0	-1	30	0	0	0	320	0	-180	-155
1945	-3	0	0	0	15	8	0	0	320	0	18	970
1946	2	0	82	115	-139	38	0	0	320	2	48	-52
1947	669	107	0	91	0	0	0	0	320	0	0	-525
1948	55	493	-919	123	84	0	0	0	160	-111	44	4
1949	5	2	17	0	0	0	0	0	146	-1	-1	0
1950	-81	-1	2	0	45	38	0	0	320	1	-203	138
1951	1	0	0	115	116	88	0	0	103	13	0	0
1952	-11	-1	0	66	87	0	0	0	98	0	0	0
1953	1	0	0	81	96	0	0	0	99	2	1	3
1954	-2	0	-16	81	92	84	0	0	125	60	78	2
1955	-27	-23	-16	93	90	1	0	0	0	-8	-386	-235
1956	-8	-8	-5	0	0	2	0	0	250	0	0	0
1957	-2	0	1	0	0	0	0	0	320	1	4	-291
1958	34	-3	5	98	51	0	0	0	41	0	0	0
1959	-2	0	0	1	49	1	0	0	250	1	3	0
1960	1	-86	16	48	0	0	0	0	320	1	0	-102
1961	-144	45	0	121	0	38	-20	22	1546	1	1	-1815
1962	762	1	0	0	0	0	0	0	320	0	-47	84
1963	0	0	0	0	83	83	0	0	96	3	30	29
1964	-12	-200	692	56	87	1	0	0	0	-1	-898	-37
1965	-28	0	20	120	296	38	0	0	320	-1	-1	0
1966	3	1	0	81	92	0	0	0	127	1	56	-130
1967	-16	0	0	75	262	38	0	0	0	0	0	0
1968	-1	-137	0	-6	79	5	0	0	250	0	-7	31
1969	-20	-12	0	0	0	-93	0	0	0	0	0	-5
1970	0	-2	0	0	92	1	0	0	104	1	0	-33
1971	6	4	2	83	95	86	0	0	96	-69	30	2
1972	-3	18	0	-2	59	0	0	0	157	0	28	20
1973	-6	0	0	58	56	38	0	0	320	1	-62	-132
1974	2	0	370	95	93	83	0	0	96	0	0	0
1975	0	0	0	-3	40	0	0	0	130	1	0	1
1976	-135	10	0	-1	-2	0	0	0	-9	39	0	-173
1977	196	85	-203	129	-2	2	0	2	0	0	-39	0
1978	-1	0	103	0	49	0	0	0	320	0	0	0
1979	-18	1	0	0	86	0	0	0	160	1	-7	21
1980	-237	0	0	110	0	-24	0	0	19	0	0	0
1981	-4	0	0	-5	170	109	0	0	146	1	1	-32
1982	-10	0	52	137	296	-103	0	0	320	0	0	0
1983	0	0	-235	0	-80	0	0	0	0	0	0	0
1984	0	0	0	0	-8	0	0	0	104	8	0	-18
1985	-21	0	0	83	92	113	0	0	-1440	2	778	6
1986	-450	1594	299	0	0	1	0	0	174	3	623	779
1987	-172	-990	4	-3	0	0	0	0	320	-206	-113	-14
1988	-11	-10	0	0	0	2	0	-69	108	-376	-235	187
1989	213	418	-1067	130	23	0	0	0	320	-113	-53	423
1990	4	-291	0	0	-4	0	0	0	20	-54	57	0
1991	-62	-3	29	-134	0	0	0	0	0	-39	-621	0
1992	812	0	-777	1468	0	0	0	0	320	1016	-1233	-171
1993	0	0	-3	0	18	0	0	0	320	-1	-1	-3
1994	0	-179	0	-1	0	38	0	0	313	6	0	-6
1995	50	34	-20	0	111	0	0	0	146	0	0	0
1996	-170	-92	-200	-135	50	80	0	0	93	-4	-3	-2
1997	-1	-1	0	0	-1	0	0	0	104	2	1	0
1998	0	12	-1	29	0	0	0	0	0	0	0	0
1999	-2	0	0	81	96	0	0	0	99	0	0	1
2000	1	0	0	-1	0	12	0	0	282	-22	0	1
2001	1	0	0	-2	44	16	0	0	320	-504	-25	0
2002	-9	16	-7	103	92	38	0	0	320	1	1	-115
2003	-130	251	0	50	186	38	0	0	320	-29	3	6
Average	**11**	**15**	**-17**	**52**	**45**	**15**	**0**	**-1**	**159**	**-17**	**-33**	**-17**

TABLE C4-5:
CHANGES IN CCWD + LV DIVERSIONS (CFS), 2005 LOD

(A) Alternative 1

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	470	179	170	204	170	-88	453	322	296	418	401	401
1923	319	334	323	400	397	-92	387	196	247	401	59	114
1924	125	155	211	230	201	-103	97	-12	-4	38	-8	14
1925	52	85	98	103	106	0	69	51	98	206	0	190
1926	208	89	107	113	168	0	76	174	147	0	148	16
1927	51	88	259	254	207	-38	104	175	181	396	219	490
1928	490	485	386	400	401	-84	235	180	255	480	398	401
1929	299	298	272	221	358	-182	240	99	71	205	49	194
1930	168	186	156	124	76	-148	236	115	52	221	122	204
1931	79	88	106	111	106	0	0	0	0	0	0	14
1932	52	85	98	151	106	0	-37	125	108	167	219	178
1933	159	88	106	113	107	0	79	128	0	173	1	205
1934	56	85	98	103	106	0	47	0	106	113	0	162
1935	52	85	98	103	96	0	103	80	164	327	95	103
1936	55	96	117	135	400	-38	412	374	178	219	44	93
1937	172	184	223	180	167	0	412	500	254	400	253	17
1938	169	213	289	400	402	-72	585	521	303	414	399	400
1939	399	238	351	228	402	-71	312	266	159	0	181	202
1940	203	132	106	120	130	-38	417	396	173	400	214	244
1941	409	345	297	334	298	-76	448	399	322	418	401	401
1942	367	231	362	406	308	-83	450	355	306	418	401	401
1943	325	344	323	416	391	-83	465	213	302	418	401	401
1944	349	231	337	221	400	-109	378	150	104	350	136	194
1945	189	189	221	227	174	-71	255	380	200	219	28	125
1946	162	104	122	400	271	-131	415	374	175	340	13	167
1947	190	193	225	135	354	-109	279	93	169	144	176	208
1948	213	112	106	111	65	0	78	180	192	389	38	42
1949	55	96	117	135	149	-45	227	185	242	245	163	208
1950	174	88	106	113	214	-38	128	183	-69	219	30	112
1951	55	96	470	286	128	-88	372	382	294	409	398	401
1952	316	321	307	401	402	-83	497	415	302	652	399	399
1953	388	238	370	393	380	-83	279	174	115	391	390	395
1954	289	191	251	245	200	-84	247	184	241	490	398	401
1955	314	310	271	273	218	-109	229	106	207	245	142	187
1956	201	209	221	191	255	-121	285	416	200	400	370	401
1957	366	232	347	221	396	-84	368	156	-77	379	375	380
1958	278	147	143	247	232	-67	461	400	359	401	401	401
1959	401	238	375	224	194	-93	349	163	39	389	126	136
1960	180	191	217	180	88	-109	278	166	31	19	176	205
1961	193	89	106	113	199	-38	349	200	173	45	176	61
1962	51	88	106	111	191	0	122	132	-69	219	28	71
1963	56	470	185	392	227	-83	176	105	262	530	403	520
1964	305	592	267	375	314	-109	162	33	242	53	178	200
1965	217	222	235	245	33	-121	412	317	200	364	401	401
1966	359	370	348	400	400	-92	325	137	177	401	71	178
1967	211	213	219	236	37	-121	584	521	200	508	400	400
1968	372	239	350	226	398	-97	484	178	164	392	36	164
1969	201	200	211	251	230	-121	601	620	200	400	263	400
1970	400	240	371	691	398	-83	278	193	249	413	399	399
1971	314	326	311	395	394	-86	299	175	219	367	359	364
1972	273	141	675	195	195	-92	259	181	161	401	9	178
1973	195	219	271	319	273	-123	226	112	173	391	276	525
1974	288	678	113	385	383	-83	312	217	257	417	401	401
1975	340	215	327	207	398	-83	394	189	255	418	401	401
1976	316	182	281	184	217	-80	258	165	138	188	102	91
1977	52	85	98	103	111	0	0	31	0	0	0	14
1978	52	85	98	98	82	0	469	521	200	400	214	244
1979	412	517	352	404	400	-92	460	324	219	401	29	140
1980	179	190	100	385	104	-82	488	282	297	418	401	401
1981	378	380	295	228	320	-109	424	162	74	25	183	211
1982	198	194	205	265	147	-121	784	521	153	470	463	661
1983	670	674	382	694	396	-32	784	413	312	414	406	407
1984	404	396	362	433	400	-83	275	203	249	407	396	397
1985	313	676	299	392	396	-113	278	17	147	124	137	182
1986	191	187	215	410	400	-121	446	521	153	400	219	283
1987	346	205	324	226	171	-109	214	99	31	97	141	171
1988	196	210	212	175	14	-144	192	50	174	32	-28	14
1989	21	85	98	103	75	0	107	173	158	24	188	21
1990	51	88	106	111	304	0	34	51	-5	7	0	14
1991	52	85	98	26	44	0	57	94	0	0	0	14
1992	52	85	98	103	76	0	53	0	29	209	114	184
1993	52	85	98	164	123	0	113	188	200	400	214	244
1994	410	517	330	230	397	-182	264	125	34	167	211	199
1995	212	171	99	214	181	-90	475	521	207	470	470	252
1996	502	348	377	356	295	-80	368	359	260	413	399	399
1997	332	346	341	684	396	-83	283	215	249	412	399	399
1998	348	357	332	379	290	-83	489	407	276	652	654	658
1999	386	670	355	396	394	-83	401	210	254	392	395	397
2000	284	169	262	220	395	-96	331	180	167	403	397	398
2001	294	288	266	221	379	-125	216	70	38	156	127	162
2002	196	198	206	176	-66	-148	269	200	178	1	199	215
2003	83	88	270	400	400	-38	301	146	20	227	260	432
Average	**239**	**234**	**237**	**258**	**246**	**-74**	**299**	**223**	**165**	**294**	**223**	**257**

TABLE C4-5:
CHANGES IN CCWD + LV DIVERSIONS (CFS), 2005 LOD

(B) Alternative 2

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	470	179	170	204	170	-88	453	322	296	418	401	401
1923	319	334	323	400	397	-92	387	196	247	401	59	114
1924	125	155	211	230	201	-103	97	-12	-4	41	-8	14
1925	52	85	98	103	106	0	69	51	98	206	0	190
1926	208	89	107	113	168	0	76	174	147	0	148	16
1927	51	88	259	254	208	-38	104	175	181	396	219	490
1928	490	485	386	400	401	-84	235	180	255	480	398	401
1929	299	298	272	221	358	-182	240	99	71	205	49	194
1930	168	186	156	124	76	-148	236	115	52	221	122	204
1931	80	88	106	111	106	0	0	0	0	0	0	14
1932	52	85	98	151	106	0	-37	125	108	167	219	178
1933	159	88	106	113	107	0	79	128	0	173	1	205
1934	56	85	98	103	106	0	47	0	106	113	0	162
1935	52	85	98	103	97	0	103	80	165	327	95	103
1936	55	96	117	135	400	-38	412	374	178	219	44	93
1937	172	184	223	180	167	0	412	500	254	400	253	17
1938	169	213	289	400	402	-72	585	521	303	414	399	400
1939	399	238	259	228	347	-71	420	246	159	0	181	202
1940	203	132	106	120	130	-38	417	396	173	400	214	244
1941	409	346	297	334	343	-76	448	399	322	418	401	401
1942	367	231	362	399	308	-83	450	355	306	418	401	401
1943	325	344	323	399	400	-83	466	213	302	418	401	401
1944	349	231	337	221	400	-109	378	150	104	350	136	194
1945	189	189	221	227	174	-71	255	380	200	219	28	125
1946	162	104	122	400	271	-131	414	374	175	340	13	167
1947	190	193	225	135	354	-109	279	93	169	144	176	208
1948	213	112	106	111	65	0	78	180	193	389	38	42
1949	55	96	117	135	149	-45	226	184	242	245	163	208
1950	174	88	106	113	214	-38	128	183	-69	219	30	112
1951	55	96	470	286	129	-88	372	382	297	409	398	401
1952	316	321	307	399	402	-83	497	415	302	652	399	399
1953	388	155	268	347	337	-83	281	175	115	393	391	396
1954	290	191	252	245	200	-84	247	184	241	491	398	401
1955	313	309	271	273	218	-109	229	106	207	245	142	187
1956	201	209	221	191	301	-121	285	416	200	400	371	401
1957	366	232	347	221	396	-84	368	156	-77	379	375	380
1958	278	147	143	247	232	-67	461	400	359	401	401	401
1959	401	238	375	224	194	-93	349	163	39	389	126	136
1960	180	191	217	180	88	-109	278	166	31	19	176	205
1961	193	89	106	113	199	-38	349	200	173	45	176	61
1962	51	88	106	111	191	0	122	132	-69	219	28	71
1963	56	470	185	392	227	-83	174	105	275	530	403	525
1964	305	438	267	363	314	-109	162	37	242	53	178	200
1965	217	222	235	245	33	-121	412	342	200	364	401	401
1966	359	370	348	400	400	-92	325	137	177	401	71	178
1967	211	213	215	236	37	-121	584	521	200	508	416	400
1968	372	239	259	226	343	-97	486	178	164	392	36	164
1969	201	200	211	250	284	-121	601	620	200	400	271	400
1970	400	240	263	691	341	-83	279	194	127	414	401	401
1971	315	284	311	400	396	-86	301	176	219	368	360	365
1972	273	141	675	195	195	-92	259	181	211	401	9	178
1973	195	219	269	319	273	-123	226	112	173	391	276	537
1974	288	678	113	347	338	-83	314	217	304	418	401	401
1975	341	216	327	207	400	-83	408	190	255	418	401	401
1976	316	182	281	184	217	-80	257	164	138	188	102	91
1977	52	85	98	103	112	0	0	30	0	0	0	14
1978	52	85	98	97	81	0	469	521	200	400	214	244
1979	412	520	352	403	400	-92	462	324	219	401	29	140
1980	179	190	100	400	104	-82	491	282	297	418	401	401
1981	378	380	295	228	320	-109	424	162	74	25	183	211
1982	198	194	205	265	147	-121	784	521	30	470	463	661
1983	670	674	274	708	436	-32	784	670	312	414	410	407
1984	404	396	254	542	399	-83	275	203	126	408	397	397
1985	313	676	260	345	341	-113	278	16	84	124	137	157
1986	110	180	215	366	400	-121	446	521	200	400	219	286
1987	348	206	324	226	171	-109	213	98	31	97	141	171
1988	196	210	210	173	14	-144	192	48	174	32	-33	14
1989	21	85	98	103	74	0	107	173	159	24	188	21
1990	51	88	106	111	303	0	34	51	-5	7	0	14
1991	52	85	98	26	44	0	57	94	0	0	0	14
1992	52	85	98	103	76	0	54	0	31	119	114	184
1993	52	85	98	165	124	0	114	189	200	400	214	244
1994	413	521	330	230	396	-182	264	125	33	167	211	199
1995	212	171	99	213	180	-90	475	521	101	470	470	252
1996	502	352	268	356	294	-80	370	360	137	417	401	401
1997	333	339	341	684	396	-83	285	216	126	416	401	401
1998	350	340	332	381	342	-83	497	409	276	652	654	658
1999	386	670	268	347	337	-83	390	188	131	395	396	398
2000	284	169	262	220	346	-96	336	182	74	407	398	400
2001	295	288	267	221	341	-125	216	70	38	156	127	162
2002	196	198	206	176	30	-148	269	196	178	1	199	215
2003	83	88	270	400	400	-38	301	147	20	227	260	432
Average	**238**	**230**	**226**	**257**	**244**	**-74**	**301**	**226**	**155**	**294**	**223**	**257**

TABLE C4-5:
CHANGES IN CCWD + LV DIVERSIONS (CFS), 2005 LOD

(D) Alternative 4

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	193	177	-4	148	32	-88	267	200	-104	181	4	3
1923	1	-1	-2	-1	-3	-92	169	42	-122	23	4	-6
1924	-5	-4	-3	-2	-2	-103	102	-6	-118	-117	-194	-171
1925	-150	-101	-52	-3	-4	0	-23	0	-200	0	0	27
1926	157	1	0	2	4	0	0	0	-200	0	148	0
1927	0	0	0	0	0	-38	0	0	-200	0	0	90
1928	200	197	202	201	7	-84	121	4	-117	182	184	85
1929	2	-1	-1	10	9	-182	181	0	0	0	20	27
1930	20	16	14	22	-8	-148	162	0	-200	0	33	25
1931	-113	-111	-107	-113	-93	-144	-7	-54	-96	-52	0	0
1932	0	0	0	0	0	-10	-37	0	0	0	0	18
1933	-13	0	0	0	0	0	0	0	0	0	-45	48
1934	4	0	0	0	0	0	47	0	0	0	0	-40
1935	0	0	0	0	0	0	0	0	-200	-52	0	77
1936	0	0	0	0	0	-38	243	200	-200	0	0	-8
1937	-8	-6	-4	-13	0	0	146	200	-146	0	39	17
1938	1	1	0	0	2	-72	260	200	-97	182	184	86
1939	1	1	0	7	8	-71	119	0	0	0	20	17
1940	17	-49	-98	-103	-46	-123	146	200	-200	0	0	0
1941	93	106	-3	-2	-1	-76	129	15	-78	24	4	3
1942	1	0	-1	-2	0	-83	154	15	-94	24	4	3
1943	2	0	-1	-2	0	-83	157	17	-98	24	4	3
1944	2	1	0	1	0	-109	282	15	-196	23	3	2
1945	3	3	2	2	1	-131	146	200	-200	0	0	1
1946	1	-96	-82	0	-129	-131	282	200	-200	121	13	4
1947	3	3	1	-91	-40	-109	162	0	-200	0	10	8
1948	8	-88	-121	-123	-105	0	0	0	-160	0	0	-107
1949	0	0	0	0	0	-45	107	0	-146	0	2	1
1950	79	0	0	0	0	-38	0	0	-200	0	0	87
1951	0	0	0	0	-63	-88	267	200	-103	182	184	188
1952	195	172	-2	-2	0	-83	157	17	-98	23	4	3
1953	2	0	-2	0	-4	-83	165	16	-99	23	4	3
1954	2	0	0	0	0	-84	121	3	-125	99	4	3
1955	2	0	-1	-1	0	-109	162	0	0	-27	11	9
1956	8	7	5	6	-194	-121	146	200	-200	0	23	109
1957	1	1	0	0	0	-84	261	12	-197	24	4	3
1958	1	-1	0	-1	-2	-67	114	0	-41	8	4	3
1959	2	1	0	-1	0	-93	244	17	-174	24	4	-4
1960	-3	-2	-2	-48	-71	-109	162	0	-200	0	0	1
1961	-11	-110	-128	-121	-69	-148	233	6	-200	0	-1	-131
1962	-4	0	0	0	-7	0	0	0	-200	0	0	45
1963	1	0	0	115	9	-83	60	0	-96	130	184	188
1964	195	202	199	27	1	-109	162	0	0	0	41	36
1965	28	24	-20	0	-164	-121	260	124	-200	-30	4	3
1966	2	-1	-1	0	0	-92	136	0	-127	100	4	22
1967	16	15	-4	0	-164	-121	260	200	-200	-23	4	3
1968	2	0	0	6	0	-97	241	16	-174	24	3	17
1969	13	12	-3	-20	4	-121	253	200	-200	0	-131	3
1970	1	2	-3	-3	0	-83	164	17	-104	23	4	3
1971	2	-2	-1	0	-4	-86	165	15	-96	24	4	3
1972	2	0	-1	2	0	-92	136	0	-157	127	4	7
1973	6	4	5	0	0	-123	121	1	-200	0	62	136
1974	1	-1	-1	-1	-3	-83	159	17	-96	23	4	3
1975	1	1	-1	3	0	-83	184	17	-130	24	4	3
1976	0	2	0	1	2	-80	147	5	9	8	-101	-93
1977	-152	-124	-117	-129	-107	-92	-70	-52	0	0	0	0
1978	0	0	0	0	0	0	146	200	-200	0	0	0
1979	39	201	200	6	0	-92	282	200	-160	165	4	11
1980	10	8	0	0	-83	-82	212	16	-103	24	4	3
1981	2	1	0	5	-80	-109	137	14	-146	0	15	11
1982	14	13	-52	0	-164	-121	260	200	-200	70	141	2
1983	0	-1	-1	-2	-2	-32	114	0	-88	18	4	3
1984	2	-2	-2	0	0	-83	165	17	-104	24	4	3
1985	1	-2	0	0	0	-113	162	8	-146	41	15	12
1986	11	10	7	9	0	-121	146	200	-200	0	0	-1
1987	2	1	0	3	4	-109	157	4	-200	1	15	14
1988	11	9	6	10	-34	-144	143	-35	0	0	-138	-176
1989	-152	-119	-122	-52	-25	-1	0	0	-200	0	164	5
1990	0	0	0	0	0	0	34	0	-20	7	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	-200	0	2	171
1993	0	0	0	9	0	0	0	0	-200	0	0	0
1994	93	200	202	1	1	-182	181	0	-200	11	7	10
1995	8	-39	-93	0	0	-90	146	200	-146	0	0	0
1996	102	197	209	218	39	-80	260	20	-93	24	4	3
1997	1	-1	-2	-3	-4	-83	169	16	-104	23	4	3
1998	1	-1	-1	-2	2	-83	183	10	-124	24	4	3
1999	2	0	-2	0	-4	-83	165	16	-99	23	4	3
2000	2	0	1	1	1	-96	228	15	-156	23	4	3
2001	0	2	0	2	0	-125	162	1	-200	76	13	12
2002	9	8	7	0	-200	-148	162	12	-200	0	27	22
2003	-115	-118	-80	0	-136	-123	199	0	-200	0	46	188
Average	**10**	**8**	**-1**	**0**	**-23**	**-81**	**141**	**44**	**-133**	**23**	**14**	**14**

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
10/31/1921	0	0	200	420	0	250	420	0	250	70	73	250
11/30/1921	0	0	144	73	0	250	73	0	250	70	1	250
12/31/1921	0	0	80	0	0	250	0	0	250	0	0	77
01/31/1922	0	97	0	204	97	0	204	97	0	148	97	0
02/28/1922	56	2	0	145	82	0	145	82	0	0	90	0
03/31/1922	88	0	0	0	0	0	0	0	0	0	0	0
04/30/1922	0	0	0	332	121	0	332	121	0	146	121	0
05/31/1922	0	0	149	221	0	250	221	0	250	70	29	250
06/30/1922	104	218	0	400	218	0	400	218	0	0	218	0
07/31/1922	250	0	11	420	243	16	420	243	16	198	243	0
08/31/1922	16	256	0	417	256	0	417	256	0	20	256	0
09/30/1922	0	0	238	389	0	250	389	0	250	0	0	241
10/31/1922	6	193	0	325	193	0	325	193	0	7	193	0
11/30/1922	0	141	0	332	144	0	332	144	0	0	141	0
12/31/1922	0	115	0	308	130	0	308	130	0	0	113	0
01/31/1923	95	0	0	398	97	0	398	97	0	0	94	0
02/28/1923	93	0	0	400	90	0	400	90	0	0	90	0
03/31/1923	0	92	0	0	0	0	0	0	0	0	0	0
04/30/1923	0	0	0	251	136	0	251	136	0	33	136	0
05/31/1923	0	0	170	116	0	250	116	0	250	0	0	213
06/30/1923	122	221	0	369	221	0	369	221	0	0	221	0
07/31/1923	19	0	250	420	0	250	420	0	250	43	0	250
08/31/1923	22	0	250	81	0	250	81	0	250	26	0	250
09/30/1923	0	0	136	0	0	250	0	0	250	0	0	129
10/31/1923	0	0	125	0	0	250	0	0	250	0	0	119
11/30/1923	0	0	95	0	0	250	0	0	250	0	0	91
12/31/1923	0	0	39	0	0	250	0	0	250	0	0	36
01/31/1924	0	0	20	0	0	250	0	0	250	0	0	18
02/29/1924	0	29	0	205	25	0	205	25	0	0	27	0
03/31/1924	0	103	0	0	0	0	0	0	0	0	0	0
04/30/1924	0	0	0	0	97	0	0	97	0	0	102	0
05/31/1924	0	111	0	0	99	0	0	99	0	0	105	0
06/30/1924	0	0	201	0	0	198	0	0	198	0	0	84
07/31/1924	0	0	205	0	0	243	0	0	246	0	0	87
08/31/1924	8	0	250	0	0	250	0	0	250	0	0	64
09/30/1924	0	0	236	0	0	250	0	0	250	0	0	66
10/31/1924	0	0	198	0	0	250	0	0	250	0	0	47
11/30/1924	0	0	166	0	0	250	0	0	250	0	0	64
12/31/1924	0	0	152	0	0	250	0	0	250	0	53	47

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1925	0	0	147	0	0	250	0	0	250	0	0	144
02/28/1925	0	161	0	106	161	0	106	161	0	0	157	0
03/31/1925	0	109	0	0	109	0	0	109	0	0	109	0
04/30/1925	131	0	0	200	0	0	200	0	0	108	0	0
05/31/1925	0	0	199	0	0	250	0	0	250	0	0	199
06/30/1925	250	113	70	298	233	0	298	233	0	0	233	0
07/31/1925	70	144	250	420	0	250	420	0	250	70	144	250
08/31/1925	1	0	250	1	0	250	1	0	250	1	0	250
09/30/1925	0	0	60	0	0	250	0	0	250	0	0	87
10/31/1925	0	0	42	0	0	250	0	0	250	0	0	199
11/30/1925	0	0	161	0	0	250	0	0	250	0	0	162
12/31/1925	0	0	143	0	0	250	0	0	250	0	0	144
01/31/1926	0	0	137	0	0	250	0	0	250	0	0	139
02/28/1926	0	128	0	164	132	0	164	132	0	0	132	0
03/31/1926	0	57	0	0	57	0	0	57	0	0	57	0
04/30/1926	0	162	0	76	162	0	76	162	0	0	162	0
05/31/1926	0	199	0	174	199	0	174	199	0	0	199	0
06/30/1926	250	113	70	347	233	0	347	233	0	0	233	0
07/31/1926	15	0	250	15	0	250	15	0	250	15	0	250
08/31/1926	0	0	109	8	0	250	8	0	250	8	0	250
09/30/1926	0	0	234	0	0	250	0	0	250	0	0	234
10/31/1926	0	0	199	0	0	250	0	0	250	0	0	199
11/30/1926	0	0	162	0	0	250	0	0	250	0	0	162
12/31/1926	0	144	0	9	144	250	9	144	250	0	144	0
01/31/1927	250	19	70	420	139	34	420	139	34	200	139	0
02/28/1927	131	1	0	207	132	0	208	132	0	0	132	0
03/31/1927	38	83	0	0	83	0	0	83	0	0	83	0
04/30/1927	51	63	0	104	114	0	104	114	0	0	114	0
05/31/1927	0	149	0	175	149	0	175	149	0	0	149	0
06/30/1927	250	146	0	381	196	0	381	196	0	0	196	0
07/31/1927	250	118	70	420	238	176	420	238	176	200	238	0
08/31/1927	70	131	250	420	0	250	420	0	250	70	131	250
09/30/1927	110	218	0	420	218	180	420	218	180	200	218	0
10/31/1927	0	185	0	420	185	70	420	185	70	200	185	0
11/30/1927	3	134	0	420	134	68	420	134	68	200	134	0
12/31/1927	0	90	0	383	92	0	383	92	0	200	92	0
01/31/1928	82	0	0	399	83	0	399	83	0	200	83	0
02/29/1928	88	0	0	401	88	0	401	88	0	7	88	0
03/31/1928	84	0	0	0	0	0	0	0	0	0	0	0
04/30/1928	0	0	0	114	121	0	114	121	0	0	121	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1928	0	137	0	177	140	0	177	140	0	0	141	0
06/30/1928	117	218	0	373	218	0	373	218	0	0	218	0
07/31/1928	11	0	250	248	243	250	248	243	250	0	243	200
08/31/1928	22	0	250	420	0	250	420	0	250	70	136	250
09/30/1928	0	0	238	389	0	250	389	0	250	70	3	250
10/31/1928	7	193	0	306	193	0	306	193	0	9	193	0
11/30/1928	0	142	0	296	144	0	296	144	0	0	141	0
12/31/1928	0	0	126	148	0	250	148	0	250	0	84	41
01/31/1929	0	0	29	0	0	250	0	0	250	0	0	39
02/28/1929	0	60	0	354	64	0	354	64	0	0	69	0
03/31/1929	38	144	0	0	0	0	0	0	0	0	0	0
04/30/1929	0	0	0	60	181	0	60	181	0	0	181	0
05/31/1929	5	217	0	99	222	0	99	222	0	0	222	0
06/30/1929	110	145	0	71	255	0	71	255	0	0	255	0
07/31/1929	70	145	250	420	0	250	420	0	250	70	145	250
08/31/1929	0	0	201	0	0	250	0	0	250	0	0	221
09/30/1929	0	0	56	0	0	250	0	0	250	0	0	83
10/31/1929	0	0	35	0	0	203	0	0	203	0	0	55
11/30/1929	0	0	26	0	0	212	0	0	212	0	0	42
12/31/1929	0	0	22	0	0	179	0	0	179	0	0	37
01/31/1930	0	60	0	114	70	0	114	70	0	0	82	0
02/28/1930	149	12	0	76	161	0	76	161	0	0	153	0
03/31/1930	38	109	0	0	0	0	0	0	0	0	0	0
04/30/1930	0	0	0	74	162	0	74	162	0	0	162	0
05/31/1930	78	121	0	115	199	0	115	199	0	0	199	0
06/30/1930	250	113	70	252	233	0	252	233	0	0	233	0
07/31/1930	70	129	250	420	0	250	420	0	250	70	129	250
08/31/1930	0	0	128	0	0	250	0	0	250	0	0	161
09/30/1930	0	0	46	0	0	250	0	0	250	0	0	72
10/31/1930	0	0	164	0	0	243	0	0	243	0	0	50
11/30/1930	0	0	162	0	0	250	0	0	250	0	0	51
12/31/1930	0	0	144	0	0	250	0	0	250	0	0	37
01/31/1931	0	0	139	0	0	250	0	0	250	0	0	26
02/28/1931	0	132	0	106	132	0	106	132	0	0	39	0
03/31/1931	0	144	0	0	144	0	0	144	0	0	0	0
04/30/1931	0	181	0	0	181	0	0	181	0	0	174	0
05/31/1931	0	222	0	0	222	0	0	222	0	0	169	0
06/30/1931	0	0	201	0	130	71	0	130	71	0	0	105
07/31/1931	15	0	250	15	0	250	15	0	250	0	0	213
08/31/1931	8	0	250	8	0	250	8	0	250	8	0	250

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1931	0	0	236	0	0	250	0	0	250	0	0	236
10/31/1931	0	0	198	0	0	250	0	0	250	0	0	198
11/30/1931	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1931	0	0	152	0	0	250	0	0	250	0	0	152
01/31/1932	0	147	0	151	147	0	151	147	0	0	147	0
02/29/1932	124	31	0	106	155	0	106	155	0	0	155	0
03/31/1932	0	109	0	0	109	0	0	109	0	0	99	0
04/30/1932	0	145	0	0	108	0	0	108	0	0	108	0
05/31/1932	0	199	0	0	199	125	0	199	125	0	199	0
06/30/1932	164	69	0	108	233	0	108	233	0	0	233	0
07/31/1932	250	144	70	367	264	0	367	264	0	200	264	0
08/31/1932	70	59	250	348	0	250	348	0	250	70	59	250
09/30/1932	0	0	72	0	0	250	0	0	250	0	0	90
10/31/1932	0	0	91	0	0	250	0	0	250	0	0	78
11/30/1932	0	0	162	0	0	250	0	0	250	0	0	162
12/31/1932	0	0	144	0	0	250	0	0	250	0	0	144
01/31/1933	0	0	137	0	0	250	0	0	250	0	0	137
02/28/1933	0	132	0	107	132	0	107	132	0	0	132	0
03/31/1933	0	144	0	0	144	0	0	144	0	0	144	0
04/30/1933	30	151	0	79	181	0	79	181	0	0	181	0
05/31/1933	17	205	0	128	222	0	128	222	0	0	222	0
06/30/1933	0	255	0	0	255	0	0	255	0	0	255	0
07/31/1933	70	145	250	387	0	250	387	0	250	70	145	250
08/31/1933	0	0	249	0	0	250	0	0	250	0	0	203
09/30/1933	0	0	45	0	0	250	0	0	250	0	0	93
10/31/1933	0	0	194	0	0	250	0	0	250	0	0	198
11/30/1933	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1933	0	0	152	0	0	250	0	0	250	0	0	152
01/31/1934	0	0	147	0	0	250	0	0	250	0	0	147
02/28/1934	100	61	0	106	161	0	106	161	0	0	161	0
03/31/1934	0	144	0	0	144	0	0	144	0	0	144	0
04/30/1934	66	68	0	0	181	0	0	181	0	0	181	0
05/31/1934	106	117	0	0	222	0	0	222	0	0	222	0
06/30/1934	192	63	0	106	255	0	106	255	0	0	255	0
07/31/1934	70	145	250	328	0	250	328	0	250	70	145	250
08/31/1934	0	0	250	0	0	250	0	0	250	0	0	250
09/30/1934	0	0	88	0	0	250	0	0	250	0	0	48
10/31/1934	0	0	198	0	0	250	0	0	250	0	0	198
11/30/1934	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1934	0	0	152	0	0	250	0	0	250	0	0	152

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1935	0	0	147	0	0	250	0	0	250	0	0	147
02/28/1935	67	94	0	96	161	0	97	161	0	0	161	0
03/31/1935	0	92	0	0	92	0	0	92	0	0	92	0
04/30/1935	136	0	0	239	0	0	239	0	0	136	0	0
05/31/1935	0	0	170	0	0	250	0	0	250	0	0	170
06/30/1935	250	101	70	364	221	0	365	221	0	0	221	0
07/31/1935	70	131	250	277	251	250	277	251	250	0	251	148
08/31/1935	70	48	250	212	0	250	212	0	250	70	48	250
09/30/1935	0	0	147	0	0	250	0	0	250	0	0	225
10/31/1935	0	0	195	0	0	250	0	0	250	0	0	195
11/30/1935	0	0	154	0	0	250	0	0	250	0	0	154
12/31/1935	0	0	133	0	0	250	0	0	250	0	0	133
01/31/1936	0	0	115	0	0	250	0	0	250	0	0	115
02/29/1936	10	87	0	400	97	0	400	97	0	0	97	0
03/31/1936	38	92	0	0	92	0	0	92	0	0	92	0
04/30/1936	0	0	39	64	136	250	64	136	250	0	136	146
05/31/1936	0	0	170	124	170	250	124	170	250	0	170	200
06/30/1936	250	101	70	378	221	0	378	221	0	0	221	0
07/31/1936	70	131	250	420	0	250	420	0	250	70	131	250
08/31/1936	70	30	250	144	0	250	144	0	250	70	30	250
09/30/1936	0	0	157	0	0	250	0	0	250	0	0	149
10/31/1936	0	0	78	0	0	250	0	0	250	0	0	71
11/30/1936	0	0	66	0	0	250	0	0	250	0	0	60
12/31/1936	0	0	27	0	0	250	0	0	250	0	0	24
01/31/1937	0	0	70	0	0	250	0	0	250	0	0	57
02/28/1937	0	0	83	0	0	250	0	0	250	0	0	83
03/31/1937	0	74	0	0	74	0	0	74	0	0	74	0
04/30/1937	0	0	136	162	136	250	162	136	250	0	136	146
05/31/1937	0	0	170	420	0	250	420	0	250	70	50	250
06/30/1937	146	221	0	400	221	0	400	221	0	0	221	0
07/31/1937	250	131	70	420	251	180	420	251	180	200	251	0
08/31/1937	70	97	250	420	0	250	420	0	250	70	136	250
09/30/1937	0	0	237	4	0	250	4	0	250	4	0	250
10/31/1937	0	0	81	0	0	250	0	0	250	0	0	82
11/30/1937	0	0	38	0	0	250	0	0	250	0	0	38
12/31/1937	0	133	0	289	133	0	289	133	0	0	133	0
01/31/1938	250	0	65	420	115	180	420	115	180	200	115	0
02/28/1938	99	0	0	400	101	0	400	101	0	0	101	0
03/31/1938	72	0	0	0	0	0	0	0	0	0	0	0
04/30/1938	0	0	0	221	114	250	221	114	250	0	114	146

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1938	149	0	0	420	0	250	420	0	250	250	29	70
06/30/1938	97	196	0	400	196	0	400	196	0	0	196	0
07/31/1938	250	0	6	420	238	12	420	238	12	200	238	0
08/31/1938	16	251	0	415	251	0	415	251	0	200	251	0
09/30/1938	12	218	0	411	218	0	411	218	0	98	218	0
10/31/1938	5	185	0	405	185	0	405	185	0	7	185	0
11/30/1938	2	134	0	240	134	0	240	134	0	3	134	0
12/31/1938	0	0	92	101	92	250	9	92	250	0	92	0
01/31/1939	0	0	22	0	0	250	0	0	250	0	0	29
02/28/1939	0	25	0	396	31	0	341	31	0	0	33	0
03/31/1939	0	71	0	0	0	0	0	0	0	0	0	0
04/30/1939	0	0	0	312	0	0	420	0	0	119	0	0
05/31/1939	0	0	199	215	0	250	195	0	250	0	0	199
06/30/1939	0	233	0	159	233	0	159	233	0	0	233	0
07/31/1939	10	0	250	10	0	250	10	0	250	10	0	250
08/31/1939	0	0	69	0	0	250	0	0	250	0	0	89
09/30/1939	0	0	48	0	0	250	0	0	250	0	0	64
10/31/1939	0	0	47	0	0	250	0	0	250	0	0	63
11/30/1939	0	0	118	0	0	250	0	0	250	0	0	70
12/31/1939	0	0	144	0	0	250	0	0	250	0	0	45
01/31/1940	0	0	130	0	0	250	0	0	250	0	0	27
02/29/1940	0	118	0	176	72	0	176	72	0	0	72	0
03/31/1940	38	84	0	0	84	0	0	84	0	0	0	0
04/30/1940	0	0	121	167	121	250	167	121	250	0	121	146
05/31/1940	0	0	149	295	0	250	295	0	250	70	29	250
06/30/1940	250	98	70	373	218	0	373	218	0	0	218	0
07/31/1940	250	123	70	420	243	180	420	243	180	200	243	0
08/31/1940	70	136	250	420	0	250	420	0	250	70	136	250
09/30/1940	70	106	250	420	0	250	420	0	250	70	106	250
10/31/1940	107	193	0	420	193	96	420	193	96	200	193	0
11/30/1940	2	144	0	347	144	0	348	144	0	109	144	0
12/31/1940	0	103	0	270	130	0	270	130	0	0	100	0
01/31/1941	74	0	0	310	97	0	310	97	0	0	72	0
02/28/1941	41	24	0	272	90	0	317	90	0	0	63	0
03/31/1941	0	0	76	0	0	0	0	0	0	0	0	0
04/30/1941	0	0	0	84	114	250	84	114	250	0	114	15
05/31/1941	0	0	149	298	0	250	298	0	250	0	0	165
06/30/1941	78	196	0	400	196	0	400	196	0	0	196	0
07/31/1941	250	0	6	420	238	16	420	238	16	41	238	0
08/31/1941	16	251	0	417	251	0	417	251	0	20	251	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1941	0	0	230	381	0	250	381	0	250	0	0	233
10/31/1941	5	185	0	373	185	0	373	185	0	7	185	0
11/30/1941	0	134	0	231	134	0	231	134	0	0	134	0
12/31/1941	0	78	0	348	92	0	348	92	0	0	76	0
01/31/1942	48	0	0	372	83	0	365	83	0	0	46	0
02/28/1942	84	0	0	300	92	0	300	92	0	0	83	0
03/31/1942	83	0	0	0	0	0	0	0	0	0	0	0
04/30/1942	0	0	0	336	114	0	336	114	0	40	114	0
05/31/1942	0	0	149	255	0	250	255	0	250	0	0	164
06/30/1942	94	196	0	400	196	0	400	196	0	0	196	0
07/31/1942	250	0	6	420	238	16	420	238	16	41	238	0
08/31/1942	16	251	0	417	251	0	417	251	0	20	251	0
09/30/1942	12	218	0	413	218	0	413	218	0	15	218	0
10/31/1942	6	185	0	332	185	0	332	185	0	8	185	0
11/30/1942	0	132	0	343	134	0	343	134	0	0	132	0
12/31/1942	0	90	0	320	92	0	320	92	0	0	90	0
01/31/1943	58	0	0	391	83	0	375	83	0	0	56	0
02/28/1943	92	0	0	391	92	0	400	92	0	0	92	0
03/31/1943	0	0	83	0	0	0	0	0	0	0	0	0
04/30/1943	0	0	0	101	114	250	102	114	250	0	114	43
05/31/1943	0	0	149	113	0	250	113	0	250	0	0	166
06/30/1943	98	196	0	400	196	0	400	196	0	0	196	0
07/31/1943	250	0	6	420	238	16	420	238	16	41	238	0
08/31/1943	0	17	250	400	18	250	400	18	250	0	21	250
09/30/1943	0	0	230	381	0	250	381	0	250	0	0	233
10/31/1943	7	185	0	355	185	0	355	185	0	8	185	0
11/30/1943	2	134	0	233	134	0	233	134	0	3	134	0
12/31/1943	0	0	91	85	92	250	85	92	250	0	91	0
01/31/1944	0	0	29	0	0	250	0	0	250	0	0	30
02/29/1944	30	58	0	400	88	0	400	88	0	0	88	0
03/31/1944	0	109	0	0	0	0	0	0	0	0	0	0
04/30/1944	0	0	0	216	162	0	216	162	0	120	162	0
05/31/1944	0	0	199	99	0	250	99	0	250	0	0	214
06/30/1944	250	109	70	300	233	0	300	233	0	0	233	0
07/31/1944	32	0	250	382	0	250	382	0	250	55	0	250
08/31/1944	0	0	114	0	0	250	0	0	250	0	0	117
09/30/1944	0	0	56	0	0	250	0	0	250	0	0	59
10/31/1944	0	0	61	0	0	250	0	0	250	0	0	64
11/30/1944	0	0	61	0	0	250	0	0	250	0	0	64
12/31/1944	0	0	30	0	0	250	0	0	250	0	0	31

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1945	0	55	0	228	54	0	228	54	0	0	57	0
02/28/1945	15	116	0	174	132	0	174	132	0	0	132	0
03/31/1945	38	92	0	0	60	0	0	59	0	0	0	0
04/30/1945	0	0	136	5	136	250	5	136	250	0	136	146
05/31/1945	0	0	170	300	0	250	300	0	250	70	50	250
06/30/1945	250	101	70	400	221	0	400	221	0	0	221	0
07/31/1945	70	131	250	420	0	250	420	0	250	70	131	250
08/31/1945	70	21	250	119	0	250	119	0	250	70	21	250
09/30/1945	0	0	125	0	0	250	0	0	250	0	0	125
10/31/1945	0	0	88	0	0	250	0	0	250	0	0	89
11/30/1945	0	0	146	0	0	250	0	0	250	0	0	50
12/31/1945	0	0	128	0	0	250	0	0	250	0	0	46
01/31/1946	250	0	65	420	115	180	420	115	180	200	115	0
02/28/1946	229	0	0	400	101	0	400	101	0	0	101	0
03/31/1946	38	92	0	0	0	0	0	0	0	0	0	0
04/30/1946	0	0	0	279	136	0	278	136	0	146	136	0
05/31/1946	0	0	170	294	0	250	294	0	250	70	50	250
06/30/1946	250	101	70	375	221	0	375	221	0	0	221	0
07/31/1946	70	10	250	420	0	250	420	0	250	70	131	250
08/31/1946	22	0	250	35	0	250	35	0	250	35	0	250
09/30/1946	0	0	83	0	0	250	0	0	250	0	0	87
10/31/1946	0	0	60	0	0	250	0	0	250	0	0	63
11/30/1946	0	0	57	0	0	250	0	0	250	0	0	60
12/31/1946	0	0	25	0	0	250	0	0	250	0	0	26
01/31/1947	0	0	115	0	0	250	0	0	250	0	0	24
02/28/1947	0	101	0	400	55	0	400	55	0	0	61	0
03/31/1947	0	109	0	0	0	0	0	0	0	0	0	0
04/30/1947	0	0	0	117	162	0	117	162	0	0	162	0
05/31/1947	37	162	0	93	199	0	93	199	0	0	199	0
06/30/1947	250	113	70	369	233	0	369	233	0	0	233	0
07/31/1947	70	63	250	277	0	250	277	0	250	70	63	250
08/31/1947	0	0	74	0	0	250	0	0	250	0	0	84
09/30/1947	0	0	42	0	0	250	0	0	250	0	0	50
10/31/1947	0	0	37	0	0	250	0	0	250	0	0	45
11/30/1947	0	0	138	0	0	250	0	0	250	0	0	50
12/31/1947	0	0	144	0	0	250	0	0	250	0	0	22
01/31/1948	0	0	139	0	0	250	0	0	250	0	0	15
02/29/1948	0	127	0	0	127	65	0	127	65	0	22	0
03/31/1948	0	92	0	0	92	0	0	92	0	0	92	0
04/30/1948	19	117	0	78	136	0	78	136	0	0	136	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1948	0	170	0	180	170	0	180	170	0	0	170	0
06/30/1948	160	221	0	352	221	0	352	221	0	0	221	0
07/31/1948	250	131	70	420	251	169	420	251	169	200	251	0
08/31/1948	70	26	250	134	0	250	134	0	250	70	26	250
09/30/1948	0	0	208	0	0	250	0	0	250	0	0	101
10/31/1948	0	0	195	0	0	250	0	0	250	0	0	195
11/30/1948	0	0	154	0	0	250	0	0	250	0	0	154
12/31/1948	0	0	133	0	0	250	0	0	250	0	0	133
01/31/1949	0	0	115	0	0	250	0	0	250	0	0	115
02/28/1949	0	0	101	0	0	250	0	0	250	0	0	101
03/31/1949	0	45	0	0	0	0	0	0	0	0	0	0
04/30/1949	0	0	0	129	98	0	129	98	0	0	107	0
05/31/1949	6	193	0	184	199	0	184	199	0	0	199	0
06/30/1949	146	233	0	388	233	0	388	233	0	0	233	0
07/31/1949	70	105	250	420	0	250	420	0	250	70	105	250
08/31/1949	0	0	87	0	0	250	0	0	250	0	0	89
09/30/1949	0	0	42	0	0	250	0	0	250	0	0	43
10/31/1949	0	0	76	0	0	250	0	0	250	0	0	155
11/30/1949	0	0	162	0	0	250	0	0	250	0	0	162
12/31/1949	0	0	144	0	0	250	0	0	250	0	0	144
01/31/1950	0	0	137	0	0	250	0	0	250	0	0	137
02/28/1950	45	87	0	214	132	0	214	132	0	0	132	0
03/31/1950	38	92	0	0	92	0	0	92	0	0	92	0
04/30/1950	127	9	0	128	136	0	128	136	0	0	136	0
05/31/1950	73	98	0	183	170	0	183	170	0	0	170	0
06/30/1950	250	101	70	131	221	0	131	221	0	0	221	0
07/31/1950	70	131	250	420	0	250	420	0	250	70	131	250
08/31/1950	70	22	250	122	0	250	122	0	250	70	22	250
09/30/1950	0	0	138	0	0	250	0	0	250	0	0	225
10/31/1950	0	0	195	0	0	250	0	0	250	0	0	195
11/30/1950	0	0	154	0	0	250	0	0	250	0	0	154
12/31/1950	200	133	0	420	133	250	420	133	250	200	133	0
01/31/1951	250	0	65	420	115	66	420	115	66	200	115	0
02/28/1951	192	0	0	219	101	0	221	101	0	29	101	0
03/31/1951	88	0	0	0	0	0	0	0	0	0	0	0
04/30/1951	0	0	0	252	121	0	252	121	0	146	121	0
05/31/1951	0	0	149	281	0	250	281	0	250	70	29	250
06/30/1951	103	218	0	397	218	0	400	218	0	0	218	0
07/31/1951	11	0	250	420	0	250	420	0	250	70	123	250
08/31/1951	22	0	250	420	0	250	420	0	250	70	136	250

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1951	0	0	238	389	0	250	389	0	250	70	106	250
10/31/1951	5	193	0	321	193	0	321	193	0	200	193	0
11/30/1951	0	143	0	320	144	0	320	144	0	171	144	0
12/31/1951	0	122	0	299	130	0	299	130	0	0	120	0
01/31/1952	66	17	0	387	97	0	385	97	0	0	81	0
02/29/1952	87	0	0	402	87	0	402	87	0	0	87	0
03/31/1952	83	0	0	0	0	0	0	0	0	0	0	0
04/30/1952	0	0	0	383	114	0	383	114	0	43	114	0
05/31/1952	0	0	149	314	0	250	314	0	250	0	0	166
06/30/1952	98	196	0	400	196	0	400	196	0	0	196	0
07/31/1952	250	0	6	420	238	250	420	238	250	41	238	0
08/31/1952	16	251	0	415	251	0	415	251	0	20	251	0
09/30/1952	0	0	230	379	0	250	379	0	250	0	0	233
10/31/1952	7	185	0	395	185	0	395	185	0	9	185	0
11/30/1952	0	134	0	238	134	0	155	134	0	0	134	0
12/31/1952	0	84	0	361	92	0	259	92	0	0	81	0
01/31/1953	81	0	0	391	83	0	345	83	0	0	81	0
02/28/1953	96	0	0	384	92	0	341	92	0	0	92	0
03/31/1953	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1953	0	0	0	165	114	0	167	114	0	51	114	0
05/31/1953	0	0	149	73	0	250	74	0	250	0	0	165
06/30/1953	99	196	0	214	196	0	214	196	0	0	196	0
07/31/1953	250	0	6	409	238	0	411	238	0	40	238	0
08/31/1953	17	0	250	407	0	250	408	0	250	21	0	250
09/30/1953	0	0	230	375	0	250	375	0	250	0	0	233
10/31/1953	7	185	0	296	185	0	297	185	0	9	185	0
11/30/1953	0	134	0	191	134	0	191	134	0	0	134	0
12/31/1953	2	92	0	253	92	0	253	92	0	2	92	0
01/31/1954	81	0	0	243	83	0	243	83	0	0	80	0
02/28/1954	92	0	0	200	92	0	200	92	0	0	92	0
03/31/1954	84	0	0	0	0	0	0	0	0	0	0	0
04/30/1954	0	0	0	126	121	0	126	121	0	0	121	0
05/31/1954	0	130	0	181	133	0	181	133	0	0	134	0
06/30/1954	125	218	0	365	218	0	365	218	0	0	218	0
07/31/1954	11	0	250	400	101	250	400	101	250	0	110	250
08/31/1954	22	0	250	420	0	250	420	0	250	26	0	250
09/30/1954	0	0	238	389	0	250	389	0	250	0	0	241
10/31/1954	7	193	0	321	193	0	321	193	0	9	193	0
11/30/1954	0	144	0	309	144	0	309	144	0	0	143	0
12/31/1954	0	125	0	267	130	0	267	130	0	0	124	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1955	93	0	0	269	97	0	269	97	0	0	92	0
02/28/1955	90	0	0	218	90	0	218	90	0	0	90	0
03/31/1955	0	109	0	0	0	0	0	0	0	0	0	0
04/30/1955	0	0	0	68	162	0	68	162	0	0	162	0
05/31/1955	2	197	0	106	199	0	106	199	0	0	199	0
06/30/1955	0	233	0	207	233	0	207	233	0	0	233	0
07/31/1955	70	101	250	416	0	250	416	0	250	70	74	250
08/31/1955	0	0	108	0	0	250	0	0	250	0	0	119
09/30/1955	0	0	63	0	0	250	0	0	250	0	0	72
10/31/1955	0	0	49	0	0	250	0	0	250	0	0	57
11/30/1955	0	0	41	0	0	250	0	0	250	0	0	48
12/31/1955	0	0	29	0	0	250	0	0	250	0	0	34
01/31/1956	0	0	59	0	0	250	0	0	250	0	0	65
02/29/1956	70	7	250	205	127	250	251	127	250	0	127	7
03/31/1956	38	83	0	0	0	0	0	0	0	0	0	0
04/30/1956	114	0	0	285	114	0	285	114	0	146	114	0
05/31/1956	0	0	149	316	0	250	316	0	250	70	29	250
06/30/1956	250	146	0	400	196	0	400	196	0	0	196	0
07/31/1956	250	118	70	420	238	180	420	238	180	200	238	0
08/31/1956	177	251	0	420	251	128	420	251	128	200	251	0
09/30/1956	0	0	229	380	0	250	380	0	250	70	18	250
10/31/1956	6	185	0	372	185	0	372	185	0	7	185	0
11/30/1956	3	134	0	235	134	0	235	134	0	4	134	0
12/31/1956	94	0	0	348	92	0	348	92	0	2	92	0
01/31/1957	0	0	29	0	0	250	0	0	250	0	0	30
02/28/1957	0	45	0	400	41	0	400	41	0	0	45	0
03/31/1957	0	84	0	0	0	0	0	0	0	0	0	0
04/30/1957	0	0	0	247	121	0	247	121	0	140	121	0
05/31/1957	0	0	149	55	0	250	55	0	250	0	0	161
06/30/1957	250	94	70	120	218	0	120	218	0	0	218	0
07/31/1957	11	0	250	389	0	250	389	0	250	34	0	250
08/31/1957	22	0	250	396	0	250	396	0	250	26	0	250
09/30/1957	0	0	238	367	0	250	367	0	250	0	0	240
10/31/1957	0	0	197	226	0	250	226	0	250	0	0	199
11/30/1957	0	0	103	0	0	250	0	0	250	0	0	102
12/31/1957	0	96	0	0	90	149	0	90	149	0	95	0
01/31/1958	164	0	0	313	97	0	314	97	0	65	97	0
02/28/1958	51	6	0	199	90	0	199	90	0	0	54	0
03/31/1958	53	14	0	0	0	0	0	0	0	0	0	0
04/30/1958	0	0	0	347	114	0	347	114	0	0	114	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1958	0	0	149	150	149	250	150	149	250	0	149	0
06/30/1958	41	196	0	400	196	0	400	196	0	0	196	0
07/31/1958	250	0	6	418	238	0	418	238	0	26	238	0
08/31/1958	16	251	0	417	251	0	417	251	0	19	251	0
09/30/1958	12	218	0	413	218	0	413	218	0	15	218	0
10/31/1958	7	185	0	408	185	0	408	185	0	9	185	0
11/30/1958	3	134	0	242	134	0	242	134	0	4	134	0
12/31/1958	0	0	92	125	92	250	125	92	250	0	92	0
01/31/1959	0	0	26	0	0	250	0	0	250	0	0	25
02/28/1959	49	43	0	194	92	0	194	92	0	0	92	0
03/31/1959	1	92	0	0	0	0	0	0	0	0	0	0
04/30/1959	0	0	0	213	136	0	213	136	0	109	136	0
05/31/1959	0	0	170	83	0	250	83	0	250	0	0	187
06/30/1959	250	145	0	213	221	0	213	221	0	0	221	0
07/31/1959	19	0	250	408	0	250	408	0	250	43	0	250
08/31/1959	22	0	250	148	0	250	148	0	250	26	0	250
09/30/1959	0	0	114	0	0	250	0	0	250	0	0	110
10/31/1959	0	0	70	0	0	250	0	0	250	0	0	67
11/30/1959	0	0	59	0	0	250	0	0	250	0	0	56
12/31/1959	0	0	33	0	0	250	0	0	250	0	0	32
01/31/1960	0	0	64	0	0	244	0	0	244	0	0	17
02/29/1960	0	92	0	0	18	162	0	18	162	0	21	0
03/31/1960	0	109	0	0	0	0	0	0	0	0	0	0
04/30/1960	0	0	0	116	162	0	116	162	0	0	162	0
05/31/1960	70	129	0	166	199	0	166	199	0	0	199	0
06/30/1960	250	113	70	231	233	0	231	233	0	0	233	0
07/31/1960	70	16	250	105	0	250	105	0	250	70	16	250
08/31/1960	0	0	74	0	0	250	0	0	250	0	0	75
09/30/1960	0	0	45	0	0	250	0	0	250	0	0	46
10/31/1960	0	0	57	0	0	250	0	0	250	0	0	47
11/30/1960	0	0	161	0	0	250	0	0	250	0	0	51
12/31/1960	0	0	144	0	0	250	0	0	250	0	0	16
01/31/1961	0	0	137	0	0	250	0	0	250	0	0	16
02/28/1961	0	132	0	199	132	0	199	132	0	0	63	0
03/31/1961	38	109	0	0	109	0	0	109	0	0	0	0
04/30/1961	75	0	0	262	162	0	262	162	0	146	162	0
05/31/1961	199	0	0	200	199	0	200	199	0	6	199	0
06/30/1961	250	183	0	373	233	0	373	233	0	0	233	0
07/31/1961	70	30	250	144	0	250	144	0	250	70	30	250
08/31/1961	0	0	74	0	0	250	0	0	250	0	0	73

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1961	0	0	189	0	0	250	0	0	250	0	0	58
10/31/1961	0	0	199	0	0	250	0	0	250	0	0	195
11/30/1961	0	0	162	0	0	250	0	0	250	0	0	162
12/31/1961	0	0	144	0	0	250	0	0	250	0	0	144
01/31/1962	0	0	139	0	0	250	0	0	250	0	0	139
02/28/1962	0	117	0	0	117	191	0	117	191	0	111	0
03/31/1962	0	92	0	0	92	0	0	92	0	0	92	0
04/30/1962	45	91	0	122	136	0	122	136	0	0	136	0
05/31/1962	0	170	0	132	170	0	132	170	0	0	170	0
06/30/1962	250	101	70	131	221	0	131	221	0	0	221	0
07/31/1962	70	131	250	420	0	250	420	0	250	70	131	250
08/31/1962	70	21	250	119	0	250	119	0	250	70	21	250
09/30/1962	0	0	179	0	0	250	0	0	250	0	0	225
10/31/1962	0	0	194	0	0	250	0	0	250	0	0	195
11/30/1962	200	154	0	420	154	250	420	154	250	200	154	0
12/31/1962	70	13	250	268	0	250	268	0	250	70	13	250
01/31/1963	200	0	0	420	115	56	420	115	56	200	115	0
02/28/1963	83	8	0	218	101	0	218	101	0	0	101	0
03/31/1963	83	0	0	0	0	0	0	0	0	0	0	0
04/30/1963	0	0	0	120	56	0	120	54	0	0	60	0
05/31/1963	0	0	145	0	0	250	0	0	250	0	0	145
06/30/1963	96	196	0	357	196	0	371	196	0	0	196	0
07/31/1963	250	0	6	420	238	128	420	238	128	148	238	0
08/31/1963	17	0	250	420	0	250	420	0	250	70	131	250
09/30/1963	12	218	0	420	218	111	420	218	117	200	218	0
10/31/1963	5	185	0	310	185	0	310	185	0	200	185	0
11/30/1963	0	132	0	420	134	170	420	134	16	200	134	0
12/31/1963	1	92	0	269	92	0	269	92	0	200	92	0
01/31/1964	79	0	0	372	83	0	360	83	0	24	83	0
02/29/1964	92	0	0	318	88	0	318	88	0	5	88	0
03/31/1964	0	109	0	0	0	0	0	0	0	0	0	0
04/30/1964	0	0	0	0	162	0	0	162	0	0	162	0
05/31/1964	61	138	0	33	199	0	37	199	0	0	199	0
06/30/1964	0	233	0	242	233	0	242	233	0	0	233	0
07/31/1964	70	34	250	158	0	250	158	0	250	70	34	250
08/31/1964	0	0	72	0	0	250	0	0	250	0	0	114
09/30/1964	0	0	50	0	0	250	0	0	250	0	0	86
10/31/1964	0	0	33	0	0	250	0	0	250	0	0	61
11/30/1964	0	0	28	0	0	250	0	0	250	0	0	52
12/31/1964	200	144	0	420	144	15	420	144	15	180	144	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1965	250	19	70	420	139	25	420	139	25	200	139	0
02/28/1965	250	0	46	197	132	0	197	132	0	0	132	0
03/31/1965	38	83	0	0	0	0	0	0	0	0	0	0
04/30/1965	0	0	0	298	114	0	298	114	0	146	114	0
05/31/1965	0	0	149	216	0	250	241	0	250	23	0	250
06/30/1965	250	76	70	400	196	0	400	196	0	0	196	0
07/31/1965	250	0	60	420	238	16	420	238	16	41	238	0
08/31/1965	16	0	250	418	0	250	418	0	250	20	0	250
09/30/1965	0	0	230	381	0	250	381	0	250	0	0	233
10/31/1965	7	185	0	366	185	0	366	185	0	9	185	0
11/30/1965	0	131	0	366	134	0	366	134	0	0	130	0
12/31/1965	0	87	0	342	92	0	342	92	0	0	86	0
01/31/1966	81	0	0	398	83	0	398	83	0	0	81	0
02/28/1966	92	0	0	400	92	0	400	92	0	0	92	0
03/31/1966	0	92	0	0	0	0	0	0	0	0	0	0
04/30/1966	0	0	0	189	136	0	189	136	0	0	136	0
05/31/1966	10	160	0	137	170	0	137	170	0	0	170	0
06/30/1966	127	221	0	304	221	0	304	221	0	0	221	0
07/31/1966	19	0	250	420	0	250	420	0	250	70	49	250
08/31/1966	22	0	250	93	0	250	93	0	250	26	0	250
09/30/1966	0	0	72	0	0	250	0	0	250	0	0	94
10/31/1966	0	0	39	0	0	250	0	0	250	0	0	55
11/30/1966	0	0	37	0	0	250	0	0	250	0	0	52
12/31/1966	0	71	0	238	52	0	238	48	0	0	67	0
01/31/1967	75	40	0	236	115	0	236	115	0	0	115	0
02/28/1967	250	3	12	201	101	0	201	101	0	0	101	0
03/31/1967	38	83	0	0	0	0	0	0	0	0	0	0
04/30/1967	0	0	0	420	114	50	420	114	50	146	114	0
05/31/1967	0	0	149	420	0	250	420	0	250	70	29	250
06/30/1967	250	76	70	400	196	0	400	196	0	0	196	0
07/31/1967	250	80	70	420	238	250	420	238	250	139	238	0
08/31/1967	16	251	0	415	251	0	420	251	12	20	251	0
09/30/1967	0	0	230	379	0	250	380	0	250	0	0	233
10/31/1967	7	185	0	379	185	0	379	185	0	9	185	0
11/30/1967	0	134	0	239	134	0	239	134	0	0	134	0
12/31/1967	0	0	92	100	92	250	9	92	250	0	92	0
01/31/1968	0	0	24	0	0	250	0	0	250	0	0	30
02/29/1968	79	10	0	398	88	0	343	88	0	0	88	0
03/31/1968	5	92	0	0	0	0	0	0	0	0	0	0
04/30/1968	0	0	0	348	136	0	351	136	0	105	136	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1968	0	0	170	99	0	250	99	0	250	0	0	187
06/30/1968	250	145	0	338	221	0	338	221	0	0	221	0
07/31/1968	19	0	250	411	0	250	412	0	250	43	0	250
08/31/1968	20	0	250	56	0	250	56	0	250	24	0	250
09/30/1968	0	0	86	0	0	250	0	0	250	0	0	103
10/31/1968	0	0	49	0	0	250	0	0	250	0	0	62
11/30/1968	0	0	50	0	0	250	0	0	250	0	0	62
12/31/1968	0	0	39	0	0	250	0	0	250	0	0	36
01/31/1969	0	88	0	272	67	0	272	66	0	0	69	0
02/28/1969	84	0	0	314	0	0	368	0	0	87	0	0
03/31/1969	38	83	0	0	0	0	0	0	0	0	0	0
04/30/1969	7	0	0	420	114	74	420	114	74	146	114	0
05/31/1969	0	0	149	420	99	250	420	99	250	70	29	250
06/30/1969	250	76	70	400	196	0	400	196	0	0	196	0
07/31/1969	250	118	70	420	238	180	420	238	180	200	238	0
08/31/1969	155	251	0	418	251	0	420	251	5	24	251	0
09/30/1969	12	218	0	412	218	0	412	218	0	15	218	0
10/31/1969	5	185	0	405	185	0	405	185	0	6	185	0
11/30/1969	0	134	0	240	134	0	240	134	0	2	134	0
12/31/1969	0	89	0	367	92	0	259	92	0	0	86	0
01/31/1970	0	0	62	420	83	250	420	83	250	0	60	0
02/28/1970	92	0	0	398	92	0	341	92	0	0	92	0
03/31/1970	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1970	0	0	0	164	114	0	165	114	0	50	114	0
05/31/1970	0	0	149	92	0	250	93	0	250	0	0	166
06/30/1970	104	196	0	353	196	0	230	196	0	0	196	0
07/31/1970	6	0	250	419	0	250	420	0	250	29	0	250
08/31/1970	17	0	250	416	0	250	418	0	250	21	0	250
09/30/1970	0	218	12	161	218	250	162	218	250	0	218	15
10/31/1970	6	185	0	320	185	0	321	185	0	8	185	0
11/30/1970	0	127	0	319	134	0	276	134	0	0	125	0
12/31/1970	0	80	0	299	92	0	299	92	0	0	78	0
01/31/1971	83	0	0	395	83	0	400	83	0	0	83	0
02/28/1971	95	0	0	398	92	0	400	92	0	0	92	0
03/31/1971	86	0	0	0	0	0	0	0	0	0	0	0
04/30/1971	0	0	0	185	114	0	188	114	0	52	114	0
05/31/1971	0	0	149	74	0	250	75	0	250	0	0	164
06/30/1971	96	196	0	315	196	0	315	196	0	0	196	0
07/31/1971	250	0	6	384	238	0	385	238	0	41	238	0
08/31/1971	17	0	250	377	0	250	377	0	250	21	0	250

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1971	0	0	230	344	0	250	344	0	250	0	0	233
10/31/1971	7	185	0	280	185	0	280	185	0	9	185	0
11/30/1971	2	134	0	143	134	0	143	134	0	2	134	0
12/31/1971	87	0	0	420	92	250	420	92	250	0	86	0
01/31/1972	0	0	55	0	0	250	0	0	250	0	0	56
02/29/1972	59	30	0	195	88	0	195	88	0	0	88	0
03/31/1972	0	92	0	0	0	0	0	0	0	0	0	0
04/30/1972	0	0	0	124	136	0	124	136	0	0	136	0
05/31/1972	89	82	0	181	170	0	181	170	0	0	170	0
06/30/1972	157	221	0	318	221	0	368	221	0	0	221	0
07/31/1972	19	0	250	420	0	250	420	0	250	70	76	250
08/31/1972	22	0	250	31	0	250	31	0	250	26	0	250
09/30/1972	0	0	72	0	0	250	0	0	250	0	0	80
10/31/1972	0	0	55	0	0	250	0	0	250	0	0	61
11/30/1972	0	0	31	0	0	250	0	0	250	0	0	35
12/31/1972	0	64	0	267	68	0	267	66	0	0	69	0
01/31/1973	58	58	0	319	115	0	319	115	0	0	115	0
02/28/1973	56	45	0	273	101	0	273	101	0	0	101	0
03/31/1973	38	84	0	0	0	0	0	0	0	0	0	0
04/30/1973	0	0	0	105	121	0	105	121	0	0	121	0
05/31/1973	0	0	138	0	0	250	0	0	250	0	0	139
06/30/1973	250	98	70	373	218	0	373	218	0	0	218	0
07/31/1973	250	123	70	420	243	171	420	243	171	200	243	0
08/31/1973	70	74	250	420	0	250	420	0	250	70	136	250
09/30/1973	0	0	238	400	113	250	400	125	250	0	124	250
10/31/1973	4	193	0	292	193	0	292	193	0	5	193	0
11/30/1973	0	136	0	420	144	250	420	144	250	0	135	0
12/31/1973	0	121	0	105	130	0	105	130	0	0	120	0
01/31/1974	95	0	0	383	97	0	345	97	0	0	95	0
02/28/1974	93	0	0	386	90	0	341	90	0	0	90	0
03/31/1974	83	0	0	0	0	0	0	0	0	0	0	0
04/30/1974	0	0	0	0	114	198	0	114	200	0	114	45
05/31/1974	0	0	149	116	0	250	117	0	250	0	0	166
06/30/1974	96	196	0	353	196	0	400	196	0	0	196	0
07/31/1974	250	0	5	420	238	13	420	238	14	40	238	0
08/31/1974	17	0	250	418	0	250	418	0	250	21	0	250
09/30/1974	12	218	0	413	218	0	413	218	0	15	218	0
10/31/1974	6	185	0	346	185	0	346	185	0	7	185	0
11/30/1974	2	134	0	218	134	0	218	134	0	3	134	0
12/31/1974	0	90	0	324	92	0	324	92	0	0	89	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1975	0	0	43	0	0	250	0	0	250	0	0	46
02/28/1975	40	52	0	398	92	0	400	92	0	0	92	0
03/31/1975	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1975	0	0	0	30	114	250	44	114	250	0	114	70
05/31/1975	0	0	149	89	0	250	89	0	250	0	0	166
06/30/1975	129	196	0	384	196	0	384	196	0	0	196	0
07/31/1975	250	0	6	420	238	16	420	238	16	41	238	0
08/31/1975	0	17	250	400	18	250	400	18	250	0	20	250
09/30/1975	0	0	230	381	0	250	381	0	250	0	0	233
10/31/1975	0	185	0	316	185	0	316	185	0	0	185	0
11/30/1975	6	134	0	189	134	0	189	134	0	8	134	0
12/31/1975	1	92	0	282	92	0	282	92	0	2	92	0
01/31/1976	0	0	66	0	0	250	0	0	250	0	0	67
02/29/1976	0	0	33	0	0	250	0	0	250	0	0	35
03/31/1976	0	80	0	0	0	0	0	0	0	0	0	0
04/30/1976	0	0	0	110	148	0	111	147	0	0	147	0
05/31/1976	0	162	0	0	170	157	0	167	159	0	167	0
06/30/1976	0	0	112	0	0	250	0	0	250	0	0	121
07/31/1976	0	0	62	0	0	250	0	0	250	0	0	70
08/31/1976	0	0	148	0	0	250	0	0	250	0	0	47
09/30/1976	0	0	159	0	0	250	0	0	250	0	0	66
10/31/1976	0	0	198	0	0	250	0	0	250	0	0	46
11/30/1976	0	0	166	0	0	250	0	0	250	0	0	41
12/31/1976	0	0	152	0	0	250	0	0	250	0	0	35
01/31/1977	0	0	147	0	0	250	0	0	250	0	0	19
02/28/1977	0	161	0	0	161	111	0	161	112	0	54	0
03/31/1977	0	92	0	0	92	0	0	92	0	0	0	0
04/30/1977	0	181	0	0	181	0	0	181	0	0	110	0
05/31/1977	0	222	0	0	222	31	0	222	30	0	170	0
06/30/1977	5	0	250	5	0	250	5	0	250	5	0	250
07/31/1977	15	0	250	15	0	250	15	0	250	15	0	250
08/31/1977	8	0	250	8	0	250	8	0	250	8	0	250
09/30/1977	0	0	236	0	0	250	0	0	250	0	0	236
10/31/1977	0	0	198	0	0	250	0	0	250	0	0	198
11/30/1977	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1977	0	0	152	0	0	250	0	0	250	0	0	152
01/31/1978	0	147	0	98	147	0	97	147	0	0	147	0
02/28/1978	49	112	0	82	161	0	81	161	0	0	161	0
03/31/1978	0	84	0	0	84	0	0	84	0	0	84	0
04/30/1978	121	0	0	420	121	49	420	121	49	146	121	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1978	0	0	149	420	0	250	420	0	250	70	29	250
06/30/1978	250	98	70	400	218	0	400	218	0	0	218	0
07/31/1978	250	123	70	420	243	180	420	243	180	200	243	0
08/31/1978	70	136	250	420	0	250	420	0	250	70	136	250
09/30/1978	70	106	250	420	0	250	420	0	250	70	106	250
10/31/1978	161	193	0	420	193	152	420	193	152	200	193	0
11/30/1978	0	143	0	420	144	96	420	144	99	200	144	0
12/31/1978	0	0	130	102	130	250	102	130	250	0	130	200
01/31/1979	0	42	0	150	45	250	150	45	250	0	47	0
02/28/1979	86	4	0	400	90	0	400	90	0	0	90	0
03/31/1979	0	92	0	0	0	0	0	0	0	0	0	0
04/30/1979	0	0	0	75	136	250	76	136	250	0	136	146
05/31/1979	0	0	170	244	0	250	244	0	250	70	50	250
06/30/1979	160	221	0	379	221	0	379	221	0	0	221	0
07/31/1979	19	0	250	420	0	250	420	0	250	70	114	250
08/31/1979	22	0	250	51	0	250	51	0	250	26	0	250
09/30/1979	0	0	110	0	0	250	0	0	250	0	0	121
10/31/1979	0	0	71	0	0	250	0	0	250	0	0	81
11/30/1979	0	0	60	0	0	250	0	0	250	0	0	68
12/31/1979	70	13	250	100	83	250	100	83	250	0	83	250
01/31/1980	110	5	0	385	115	0	400	115	0	0	115	0
02/29/1980	0	0	187	41	0	250	41	0	250	0	0	104
03/31/1980	0	0	82	0	0	0	0	0	0	0	0	0
04/30/1980	0	0	0	117	121	250	120	121	250	0	121	92
05/31/1980	0	0	149	181	0	250	181	0	250	0	0	165
06/30/1980	103	218	0	400	218	0	400	218	0	0	218	0
07/31/1980	250	0	10	420	243	15	420	243	15	41	243	0
08/31/1980	16	256	0	417	256	0	417	256	0	20	256	0
09/30/1980	0	0	238	389	0	250	389	0	250	0	0	241
10/31/1980	7	193	0	385	193	0	385	193	0	9	193	0
11/30/1980	3	144	0	384	144	0	384	144	0	4	144	0
12/31/1980	0	0	128	173	0	250	173	0	250	0	33	94
01/31/1981	0	0	22	0	0	250	0	0	250	0	0	27
02/28/1981	170	0	0	400	90	0	400	90	0	0	90	0
03/31/1981	109	0	0	0	0	0	0	0	0	0	0	0
04/30/1981	0	0	0	291	133	0	291	133	0	0	137	0
05/31/1981	129	0	0	291	0	0	291	0	0	143	0	0
06/30/1981	146	233	0	220	233	0	220	233	0	0	233	0
07/31/1981	70	19	250	114	0	250	114	0	250	70	19	250
08/31/1981	0	0	67	0	0	250	0	0	250	0	0	82

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1981	0	0	39	0	0	250	0	0	250	0	0	50
10/31/1981	0	0	52	0	0	250	0	0	250	0	0	66
11/30/1981	0	0	56	0	0	250	0	0	250	0	0	69
12/31/1981	200	144	0	405	144	0	405	144	0	148	144	0
01/31/1982	137	2	0	265	139	0	265	139	0	0	139	0
02/28/1982	250	0	46	311	132	0	311	132	0	0	132	0
03/31/1982	0	83	38	0	0	0	0	0	0	0	0	0
04/30/1982	0	0	0	420	114	250	420	114	250	146	114	0
05/31/1982	0	0	149	420	0	250	420	0	250	70	29	250
06/30/1982	250	76	70	353	196	0	230	196	0	0	196	0
07/31/1982	250	49	70	420	238	180	420	238	180	200	238	0
08/31/1982	16	251	0	420	251	58	420	251	59	157	251	0
09/30/1982	9	218	0	420	218	250	420	218	250	11	218	0
10/31/1982	0	185	0	420	185	250	420	185	250	0	185	0
11/30/1982	0	131	0	420	134	250	420	134	250	0	130	0
12/31/1982	0	0	77	117	92	250	9	92	250	0	77	0
01/31/1983	45	0	0	420	83	236	420	83	250	0	43	0
02/28/1983	55	0	0	400	51	0	400	92	0	0	54	0
03/31/1983	32	0	0	0	0	0	0	0	0	0	0	0
04/30/1983	0	0	0	420	114	250	420	114	250	0	114	0
05/31/1983	0	0	149	163	149	250	420	149	250	0	149	0
06/30/1983	0	196	88	150	196	250	150	196	250	0	196	0
07/31/1983	250	0	6	420	238	11	420	238	11	36	238	0
08/31/1983	16	251	0	420	251	1	420	251	6	19	251	0
09/30/1983	11	218	0	418	218	0	418	218	0	13	218	0
10/31/1983	6	185	0	411	185	0	411	185	0	8	185	0
11/30/1983	0	0	127	273	0	250	273	0	250	0	0	126
12/31/1983	0	0	84	117	79	250	9	79	250	0	82	0
01/31/1984	0	0	84	185	83	250	293	83	250	0	83	2
02/29/1984	88	0	0	400	88	0	400	88	0	0	88	0
03/31/1984	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1984	0	0	0	161	114	0	161	114	0	51	114	0
05/31/1984	0	0	149	102	0	250	102	0	250	0	0	166
06/30/1984	104	196	0	353	196	0	230	196	0	0	196	0
07/31/1984	6	0	250	175	238	250	175	238	250	0	238	41
08/31/1984	17	0	250	413	0	250	414	0	250	21	0	250
09/30/1984	0	218	12	159	218	250	159	218	250	0	218	15
10/31/1984	4	185	0	317	185	0	318	185	0	5	185	0
11/30/1984	0	128	0	420	134	250	420	134	250	0	126	0
12/31/1984	0	92	0	300	91	0	259	92	0	0	91	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1985	83	0	0	392	83	0	345	83	0	0	83	0
02/28/1985	92	0	0	396	92	0	341	92	0	0	92	0
03/31/1985	113	0	0	0	0	0	0	0	0	0	0	0
04/30/1985	0	0	0	116	162	0	116	162	0	0	162	0
05/31/1985	0	155	0	0	172	0	0	172	0	0	163	0
06/30/1985	146	233	0	293	233	0	230	233	0	0	233	0
07/31/1985	70	5	250	199	0	250	199	0	250	70	45	250
08/31/1985	0	0	113	0	0	250	0	0	250	0	0	128
09/30/1985	0	0	68	0	0	250	0	0	225	0	0	80
10/31/1985	0	0	59	0	0	250	0	0	169	0	0	70
11/30/1985	0	0	63	0	0	250	0	0	243	0	0	74
12/31/1985	0	0	35	0	0	250	0	0	250	0	0	43
01/31/1986	0	53	0	138	75	250	95	74	250	0	62	0
02/28/1986	11	120	0	400	132	0	400	132	0	0	132	0
03/31/1986	38	83	0	0	0	0	0	0	0	0	0	0
04/30/1986	0	0	114	196	114	250	196	114	250	0	114	146
05/31/1986	0	0	149	420	0	250	420	0	250	70	29	250
06/30/1986	250	76	70	353	196	0	400	196	0	0	196	0
07/31/1986	250	118	70	420	238	180	420	238	180	200	238	0
08/31/1986	70	131	250	420	0	250	420	0	250	70	131	250
09/30/1986	126	218	0	410	218	0	412	218	0	125	218	0
10/31/1986	7	185	0	354	185	0	355	185	0	9	185	0
11/30/1986	3	134	0	209	134	0	209	134	0	4	134	0
12/31/1986	0	0	92	74	92	250	74	92	250	0	92	0
01/31/1987	0	0	24	0	0	250	0	0	250	0	0	27
02/28/1987	0	56	0	162	65	0	163	64	0	0	60	0
03/31/1987	0	109	0	0	0	0	0	0	0	0	0	0
04/30/1987	0	0	0	55	158	0	55	158	0	0	157	0
05/31/1987	0	148	0	86	161	0	86	160	0	0	152	0
06/30/1987	250	113	70	231	233	0	231	233	0	0	233	0
07/31/1987	70	48	250	215	0	250	215	0	250	70	50	250
08/31/1987	0	0	109	0	0	250	0	0	250	0	0	124
09/30/1987	0	0	79	0	0	250	0	0	250	0	0	93
10/31/1987	0	0	54	0	0	250	0	0	250	0	0	65
11/30/1987	0	0	40	0	0	250	0	0	250	0	0	49
12/31/1987	0	0	25	0	0	237	0	0	235	0	0	31
01/31/1988	0	62	0	159	79	0	158	77	0	0	72	0
02/29/1988	0	105	0	47	72	0	47	72	0	0	72	0
03/31/1988	0	144	0	0	0	0	0	0	0	0	0	0
04/30/1988	0	22	0	47	168	0	47	167	0	0	165	0

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1988	0	222	0	79	193	0	79	191	0	0	187	0
06/30/1988	108	147	0	174	255	0	174	255	0	0	255	0
07/31/1988	70	23	250	126	0	250	126	0	250	70	23	250
08/31/1988	0	0	217	0	0	189	0	0	184	0	0	79
09/30/1988	0	0	236	0	0	250	0	0	250	0	0	60
10/31/1988	0	0	198	0	0	219	0	0	219	0	0	46
11/30/1988	0	0	166	0	0	250	0	0	250	0	0	46
12/31/1988	0	0	152	0	0	250	0	0	250	0	0	30
01/31/1989	0	0	147	0	0	250	0	0	250	0	78	17
02/28/1989	0	161	0	0	161	75	0	161	74	0	136	0
03/31/1989	0	57	0	0	57	0	0	57	0	0	57	0
04/30/1989	37	125	0	107	162	0	107	162	0	0	162	0
05/31/1989	151	48	0	173	199	0	173	199	0	0	199	0
06/30/1989	250	113	70	358	233	0	359	233	0	0	233	0
07/31/1989	70	19	250	113	0	250	113	0	250	70	19	250
08/31/1989	0	0	62	0	0	250	0	0	250	0	0	226
09/30/1989	0	0	229	0	0	250	0	0	250	0	0	234
10/31/1989	0	0	199	0	0	250	0	0	250	0	0	199
11/30/1989	0	0	162	0	0	250	0	0	250	0	0	162
12/31/1989	0	0	144	0	0	250	0	0	250	0	0	144
01/31/1990	0	0	139	0	0	250	0	0	250	0	0	139
02/28/1990	0	132	0	304	132	0	303	132	0	0	132	0
03/31/1990	0	144	0	0	144	0	0	144	0	0	144	0
04/30/1990	89	59	0	0	181	0	0	181	0	0	181	0
05/31/1990	129	94	0	51	222	0	51	222	0	0	222	0
06/30/1990	5	0	250	0	0	250	0	0	250	0	0	235
07/31/1990	8	0	250	15	0	250	15	0	250	15	0	250
08/31/1990	8	0	250	8	0	250	8	0	250	8	0	250
09/30/1990	0	0	236	0	0	250	0	0	250	0	0	236
10/31/1990	0	0	198	0	0	250	0	0	250	0	0	198
11/30/1990	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1990	0	0	152	0	0	250	0	0	250	0	0	152
01/31/1991	0	0	147	0	0	173	0	0	173	0	0	147
02/28/1991	0	161	0	0	161	44	0	161	44	0	161	0
03/31/1991	0	92	0	0	92	0	0	92	0	0	92	0
04/30/1991	1	180	0	57	181	0	57	181	0	0	181	0
05/31/1991	102	121	0	94	222	0	94	222	0	0	222	0
06/30/1991	5	0	250	5	0	250	5	0	250	5	0	250
07/31/1991	15	0	250	15	0	250	15	0	250	15	0	250
08/31/1991	8	0	250	8	0	250	8	0	250	8	0	250

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/1991	0	0	236	0	0	250	0	0	250	0	0	236
10/31/1991	0	0	198	0	0	250	0	0	250	0	0	198
11/30/1991	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1991	0	0	152	0	0	250	0	0	250	0	0	152
01/31/1992	0	0	147	0	0	250	0	0	250	0	0	147
02/29/1992	0	0	155	0	0	231	0	0	231	0	0	155
03/31/1992	0	144	0	0	144	0	0	144	0	0	144	0
04/30/1992	101	80	0	53	181	0	54	181	0	0	181	0
05/31/1992	211	12	0	0	222	0	0	222	0	0	222	0
06/30/1992	70	135	250	0	255	229	0	255	231	0	255	0
07/31/1992	70	141	250	420	0	250	330	0	250	70	141	250
08/31/1992	0	0	136	0	0	250	0	0	250	0	0	138
09/30/1992	0	0	66	0	0	250	0	0	250	0	0	236
10/31/1992	0	0	198	0	0	250	0	0	250	0	0	198
11/30/1992	0	0	166	0	0	250	0	0	250	0	0	166
12/31/1992	0	0	152	0	0	250	0	0	250	0	0	152
01/31/1993	0	132	0	0	141	155	0	141	156	0	141	0
02/28/1993	18	143	0	123	161	0	124	161	0	0	161	0
03/31/1993	0	84	0	0	84	0	0	84	0	0	84	0
04/30/1993	28	92	0	113	121	0	114	121	0	0	121	0
05/31/1993	3	146	0	188	149	0	189	149	0	0	149	0
06/30/1993	250	98	70	400	218	0	400	218	0	0	218	0
07/31/1993	250	123	70	420	243	180	420	243	180	200	243	0
08/31/1993	70	136	250	420	0	250	420	0	250	70	136	250
09/30/1993	70	106	250	420	0	250	420	0	250	70	106	250
10/31/1993	107	193	0	420	193	97	420	193	100	200	193	0
11/30/1993	0	144	0	420	144	97	420	144	101	200	144	0
12/31/1993	0	0	128	208	0	250	208	0	250	70	10	250
01/31/1994	0	0	20	0	0	250	0	0	250	0	0	21
02/28/1994	0	40	0	400	36	0	400	36	0	0	40	0
03/31/1994	38	144	0	0	0	0	0	0	0	0	0	0
04/30/1994	0	0	0	84	181	0	83	181	0	0	181	0
05/31/1994	162	61	0	125	222	0	125	222	0	0	222	0
06/30/1994	250	142	63	234	255	0	233	255	0	0	255	0
07/31/1994	0	0	84	0	0	250	0	0	250	0	0	95
08/31/1994	0	0	39	0	0	250	0	0	250	0	0	47
09/30/1994	0	0	51	0	0	250	0	0	250	0	0	61
10/31/1994	0	0	38	0	0	250	0	0	250	0	0	45
11/30/1994	0	0	79	0	0	250	0	0	250	0	0	40
12/31/1994	0	0	151	0	0	250	0	0	250	0	0	57

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
01/31/1995	0	95	0	0	95	214	0	95	213	0	95	0
02/28/1995	111	50	0	181	161	0	180	161	0	0	161	0
03/31/1995	0	0	173	0	10	73	0	10	73	0	10	73
04/30/1995	0	0	114	225	114	250	225	114	250	0	114	146
05/31/1995	149	0	0	420	0	250	420	0	250	250	29	70
06/30/1995	146	196	0	353	196	0	248	196	0	0	196	0
07/31/1995	70	118	250	420	238	250	420	238	250	0	238	200
08/31/1995	200	251	0	420	251	250	420	251	250	200	251	0
09/30/1995	70	98	250	420	0	250	420	0	250	70	98	250
10/31/1995	98	185	0	420	185	180	420	185	180	200	185	0
11/30/1995	3	134	0	352	134	0	356	134	0	200	134	0
12/31/1995	0	83	0	367	92	0	259	92	0	200	92	0
01/31/1996	65	0	0	338	83	0	338	83	0	200	83	0
02/29/1996	50	0	0	256	88	0	256	88	0	0	88	0
03/31/1996	80	0	0	0	0	0	0	0	0	0	0	0
04/30/1996	0	0	0	4	114	250	6	114	250	0	114	146
05/31/1996	0	0	149	258	0	250	259	0	250	0	0	169
06/30/1996	93	196	0	353	196	0	230	196	0	0	196	0
07/31/1996	250	0	6	420	238	11	420	238	14	41	238	0
08/31/1996	17	0	250	416	0	250	418	0	250	21	0	250
09/30/1996	0	0	230	379	0	250	381	0	250	0	0	233
10/31/1996	6	185	0	337	185	0	338	185	0	7	185	0
11/30/1996	0	132	0	344	134	0	336	134	0	0	131	0
12/31/1996	0	74	0	72	92	250	72	92	250	0	72	0
01/31/1997	68	0	0	420	83	250	420	83	250	0	65	0
02/28/1997	0	0	95	150	92	250	150	92	250	0	92	0
03/31/1997	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1997	0	0	0	0	114	169	0	114	171	0	114	55
05/31/1997	0	0	149	114	0	250	116	0	250	0	0	166
06/30/1997	104	196	0	353	196	0	230	196	0	0	196	0
07/31/1997	6	0	250	400	18	250	400	22	250	0	29	250
08/31/1997	16	0	250	415	0	250	417	0	250	20	0	250
09/30/1997	0	0	230	379	0	250	381	0	250	0	0	233
10/31/1997	6	185	0	354	185	0	355	185	0	7	185	0
11/30/1997	0	129	0	352	134	0	335	134	0	0	128	0
12/31/1997	0	90	0	330	92	0	330	92	0	0	90	0
01/31/1998	29	0	0	326	83	0	328	83	0	0	27	0
02/28/1998	40	0	0	330	0	0	382	0	0	42	0	0
03/31/1998	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1998	0	0	0	125	114	250	133	114	250	0	114	69

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
05/31/1998	0	0	149	306	0	250	308	0	250	0	0	159
06/30/1998	124	196	0	400	196	0	400	196	0	0	196	0
07/31/1998	6	0	250	420	238	250	420	238	250	0	238	41
08/31/1998	16	251	0	420	251	250	420	251	250	20	251	0
09/30/1998	12	218	0	420	218	250	420	218	250	15	218	0
10/31/1998	7	185	0	393	185	0	393	185	0	9	185	0
11/30/1998	0	134	0	420	134	250	420	134	250	0	134	0
12/31/1998	0	84	0	361	78	0	259	92	0	0	81	0
01/31/1999	81	0	0	395	83	0	345	83	0	0	81	0
02/28/1999	96	0	0	398	92	0	341	92	0	0	92	0
03/31/1999	0	83	0	0	0	0	0	0	0	0	0	0
04/30/1999	0	0	0	287	114	0	276	114	0	51	114	0
05/31/1999	0	0	149	110	0	250	87	0	250	0	0	165
06/30/1999	99	196	0	353	196	0	230	196	0	0	196	0
07/31/1999	250	0	6	410	238	0	412	238	0	40	238	0
08/31/1999	17	0	250	412	0	250	413	0	250	21	0	250
09/30/1999	0	218	12	159	218	250	160	218	250	0	218	15
10/31/1999	7	185	0	291	185	0	291	185	0	9	185	0
11/30/1999	0	134	0	169	134	0	169	134	0	0	134	0
12/31/1999	0	0	95	15	92	250	15	92	250	0	92	4
01/31/2000	0	0	30	0	0	250	0	0	250	0	0	31
02/29/2000	0	74	0	392	77	0	343	77	0	0	75	0
03/31/2000	12	84	0	0	0	0	0	0	0	0	0	0
04/30/2000	0	0	0	0	121	210	0	121	216	0	121	107
05/31/2000	0	0	149	79	0	250	81	0	250	0	0	164
06/30/2000	250	54	70	324	218	0	230	218	0	0	218	0
07/31/2000	250	0	11	420	243	0	420	243	4	41	243	0
08/31/2000	22	0	250	419	0	250	420	0	250	26	0	250
09/30/2000	0	0	238	386	0	250	388	0	250	0	0	241
10/31/2000	0	193	0	294	193	0	295	193	0	0	193	0
11/30/2000	7	144	0	295	144	0	295	144	0	9	144	0
12/31/2000	0	0	131	148	0	250	148	0	250	0	0	132
01/31/2001	0	0	29	0	0	250	0	0	250	0	0	31
02/28/2001	44	46	0	379	90	0	341	90	0	0	90	0
03/31/2001	16	109	0	0	0	0	0	0	0	0	0	0
04/30/2001	0	0	0	54	162	0	54	162	0	0	162	0
05/31/2001	0	190	0	68	193	0	68	192	0	0	191	0
06/30/2001	250	113	70	238	233	0	238	233	0	0	233	0
07/31/2001	39	0	250	195	0	250	195	0	250	70	45	250
08/31/2001	0	0	123	0	0	250	0	0	250	0	0	135

TABLE C4-6:
CCWD DIVERSIONS (CFS), 2005 LOD

	Existing No Project			2005 LOD Alternative 1			2005 LOD Alternative 2			2005 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
09/30/2001	0	0	88	0	0	250	0	0	250	0	0	100
10/31/2001	0	0	54	0	0	250	0	0	250	0	0	63
11/30/2001	0	0	52	0	0	250	0	0	250	0	0	60
12/31/2001	0	0	44	0	0	250	0	0	250	0	0	52
01/31/2002	103	35	0	176	139	0	176	139	0	0	139	0
02/28/2002	250	12	70	134	132	0	230	132	0	0	132	0
03/31/2002	38	109	0	0	0	0	0	0	0	0	0	0
04/30/2002	0	0	0	108	162	0	108	162	0	0	162	0
05/31/2002	0	139	0	179	160	0	179	156	0	0	151	0
06/30/2002	250	113	70	378	233	0	378	233	0	0	233	0
07/31/2002	10	0	250	11	0	250	11	0	250	11	0	250
08/31/2002	0	0	51	0	0	250	0	0	250	0	0	77
09/30/2002	0	0	35	0	0	250	0	0	250	0	0	57
10/31/2002	0	0	167	0	0	250	0	0	250	0	0	52
11/30/2002	0	0	162	0	0	250	0	0	250	0	0	43
12/31/2002	0	134	0	20	134	250	20	134	250	0	55	0
01/31/2003	250	89	0	420	139	180	420	139	180	200	139	0
02/28/2003	250	82	0	420	132	180	420	132	180	64	132	0
03/31/2003	38	84	0	0	84	0	0	84	0	0	0	0
04/30/2003	68	0	0	248	121	0	248	121	0	146	121	0
05/31/2003	83	67	0	146	149	0	147	149	0	0	149	0
06/30/2003	250	98	70	220	218	0	220	218	0	0	218	0
07/31/2003	70	123	250	420	0	250	420	0	250	70	123	250
08/31/2003	70	90	250	420	0	250	420	0	250	70	136	250
09/30/2003	0	0	238	420	0	250	420	0	250	70	106	250

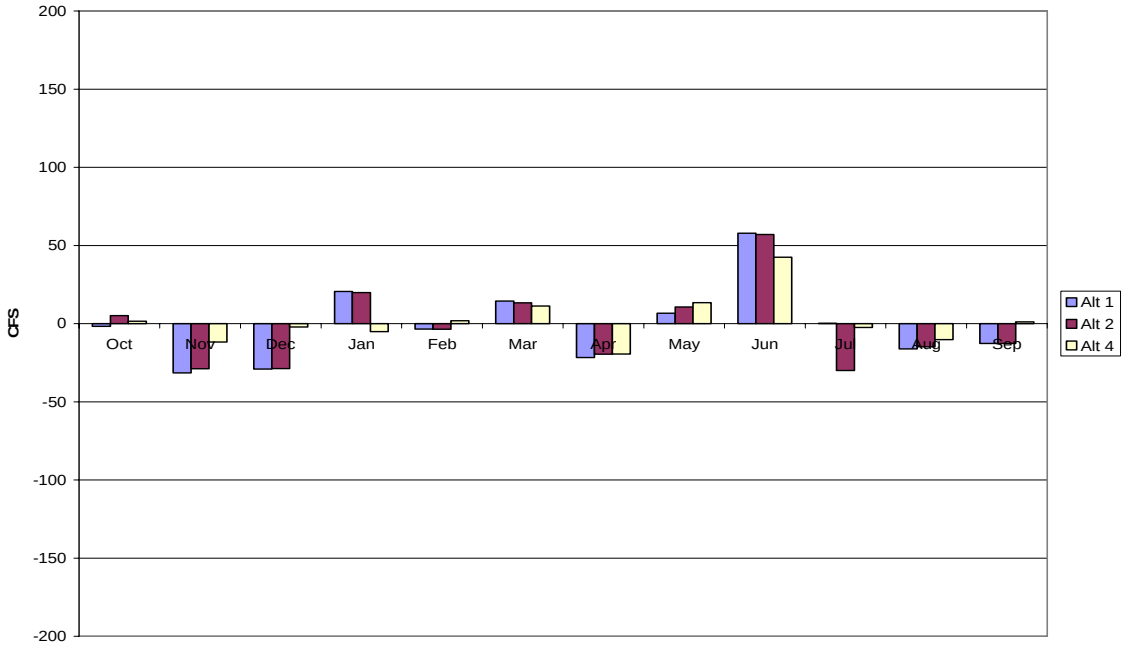

Figure C4-1: Changes in Average Monthly Sacramento River at Hood flow, 2005 LOD

Figure C4-2: Changes in Average Monthly San Joaquin River at Vernalis Flow, 2005 LOD

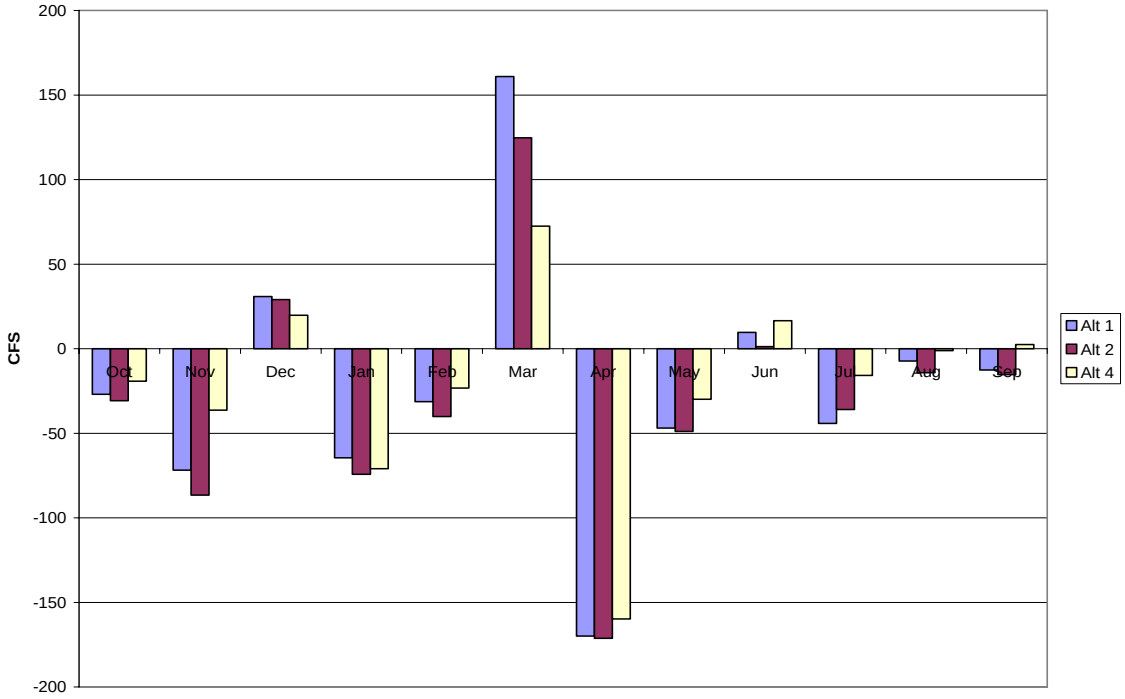

Figure C4-3: Changes in Average Monthly Delta Outflow, 2005 LOD

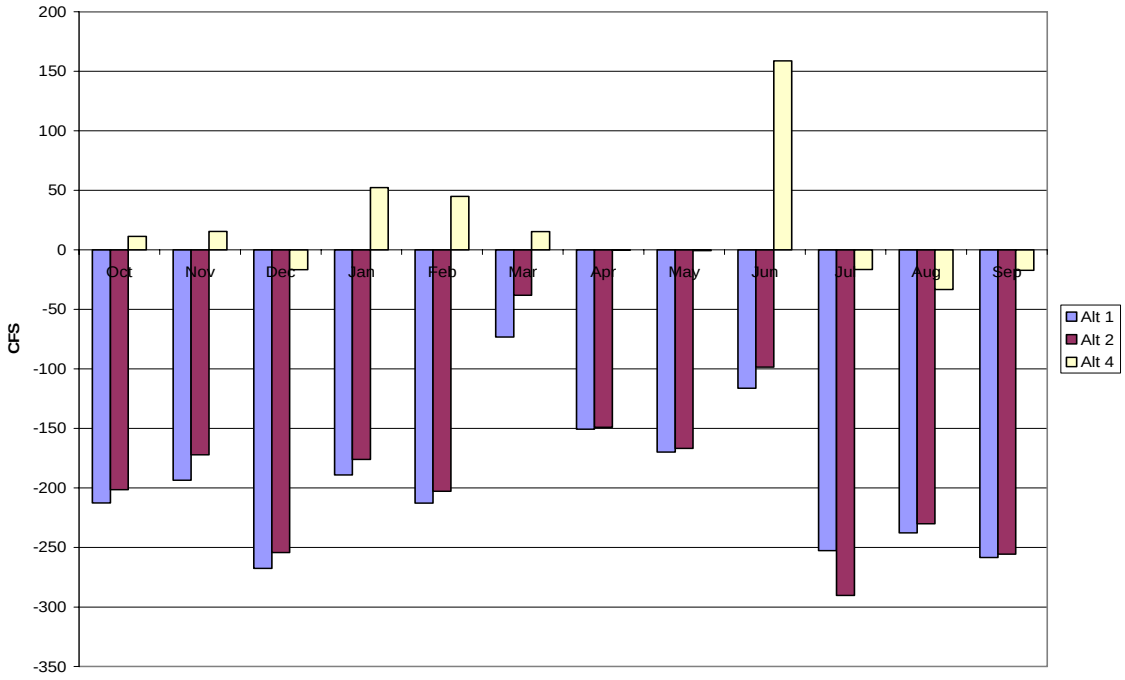

Figure C4-4: Changes in Average Monthly Banks + Jones Diversions, 2005 LOD

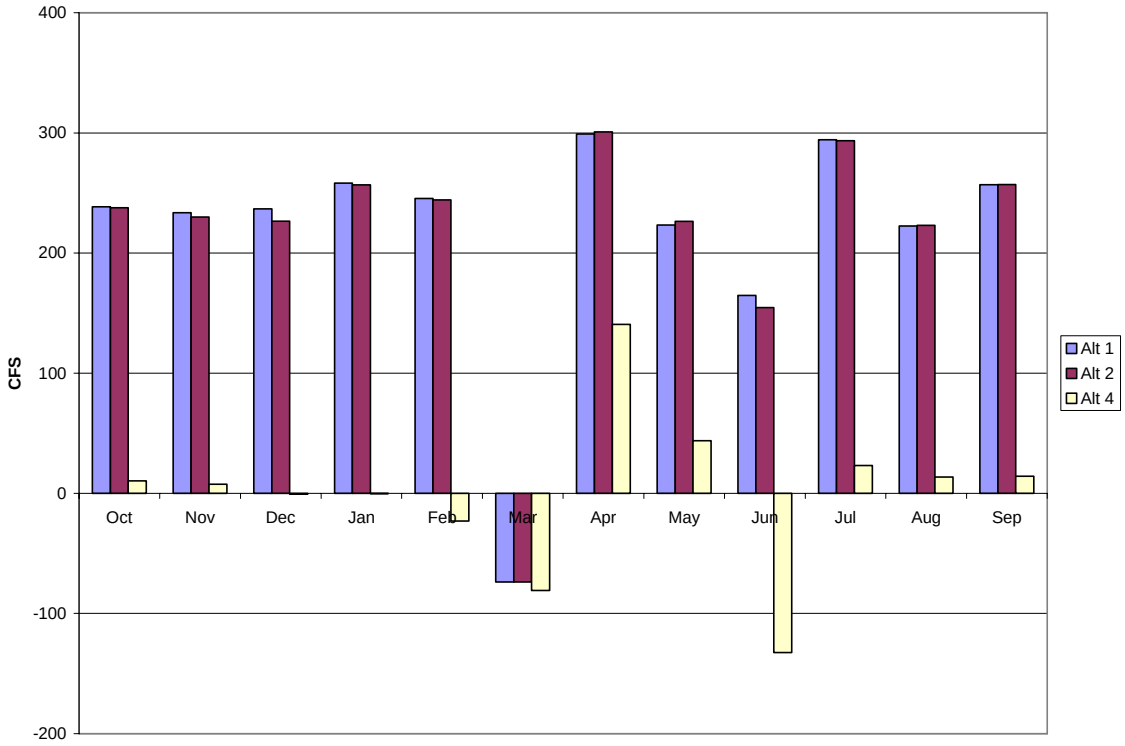

Figure C4-5: Changes in Average Monthly CCWD + LV Diversions, 2005 LOD

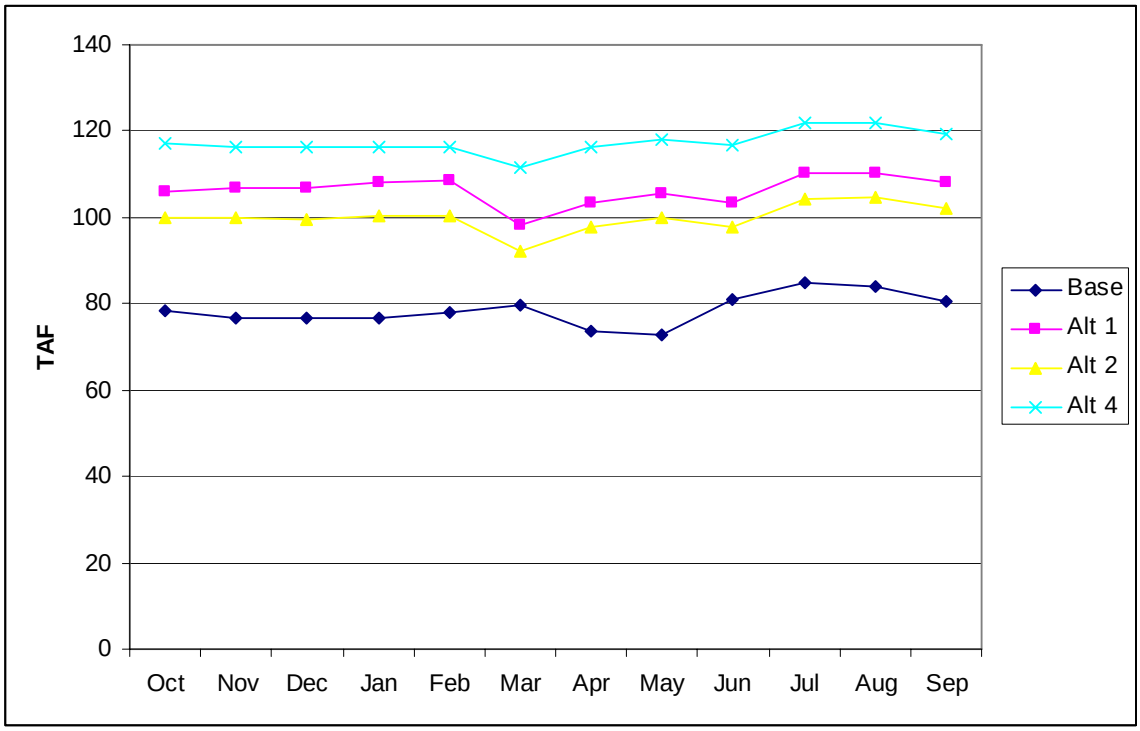

Figure C4-6: Average Los Vaqueros storage 2005 LOD

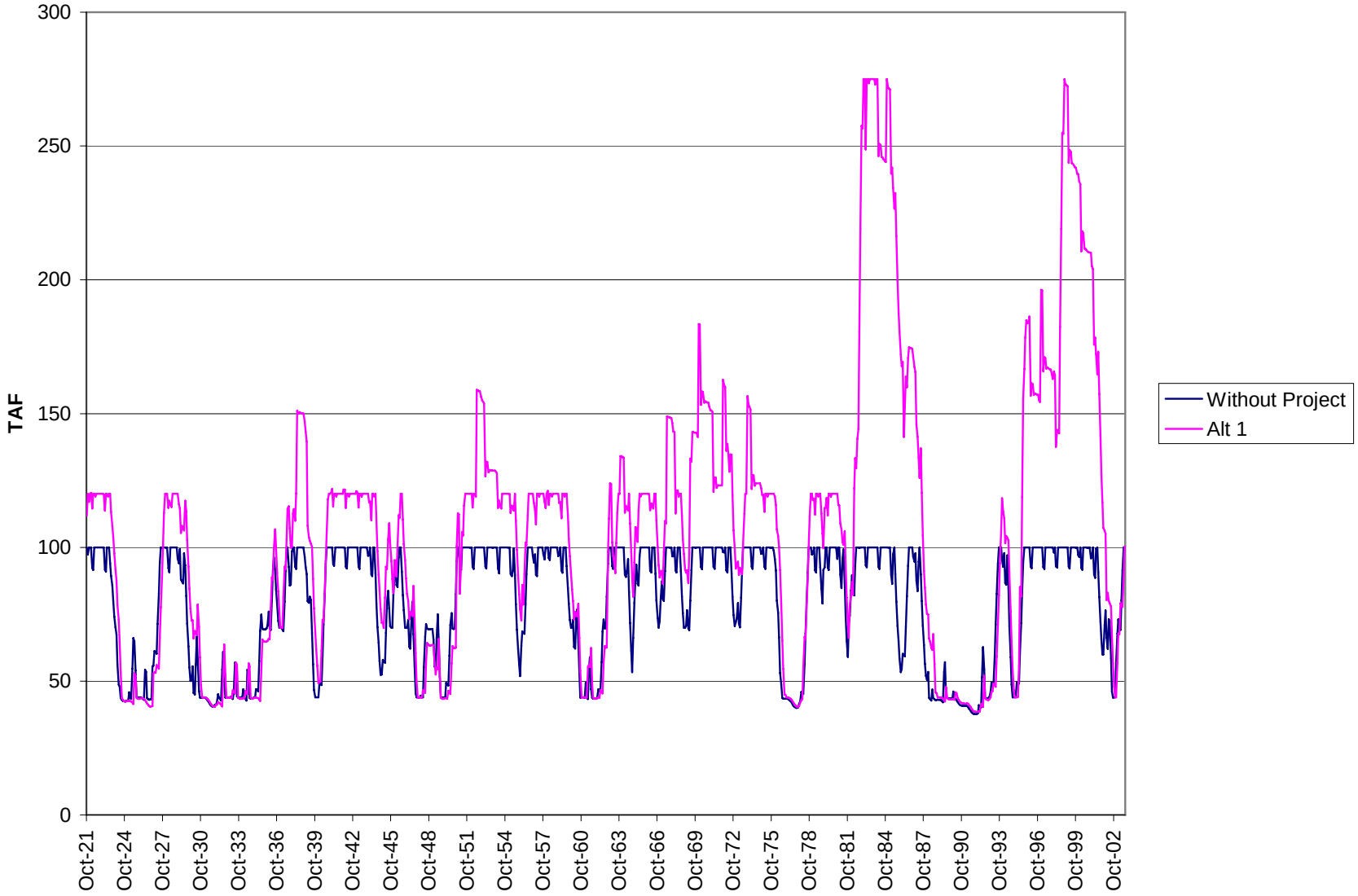

Figure C4-7: Timeseries of Alternative 1 and Base Los Vaqueros storage 2005 LOD

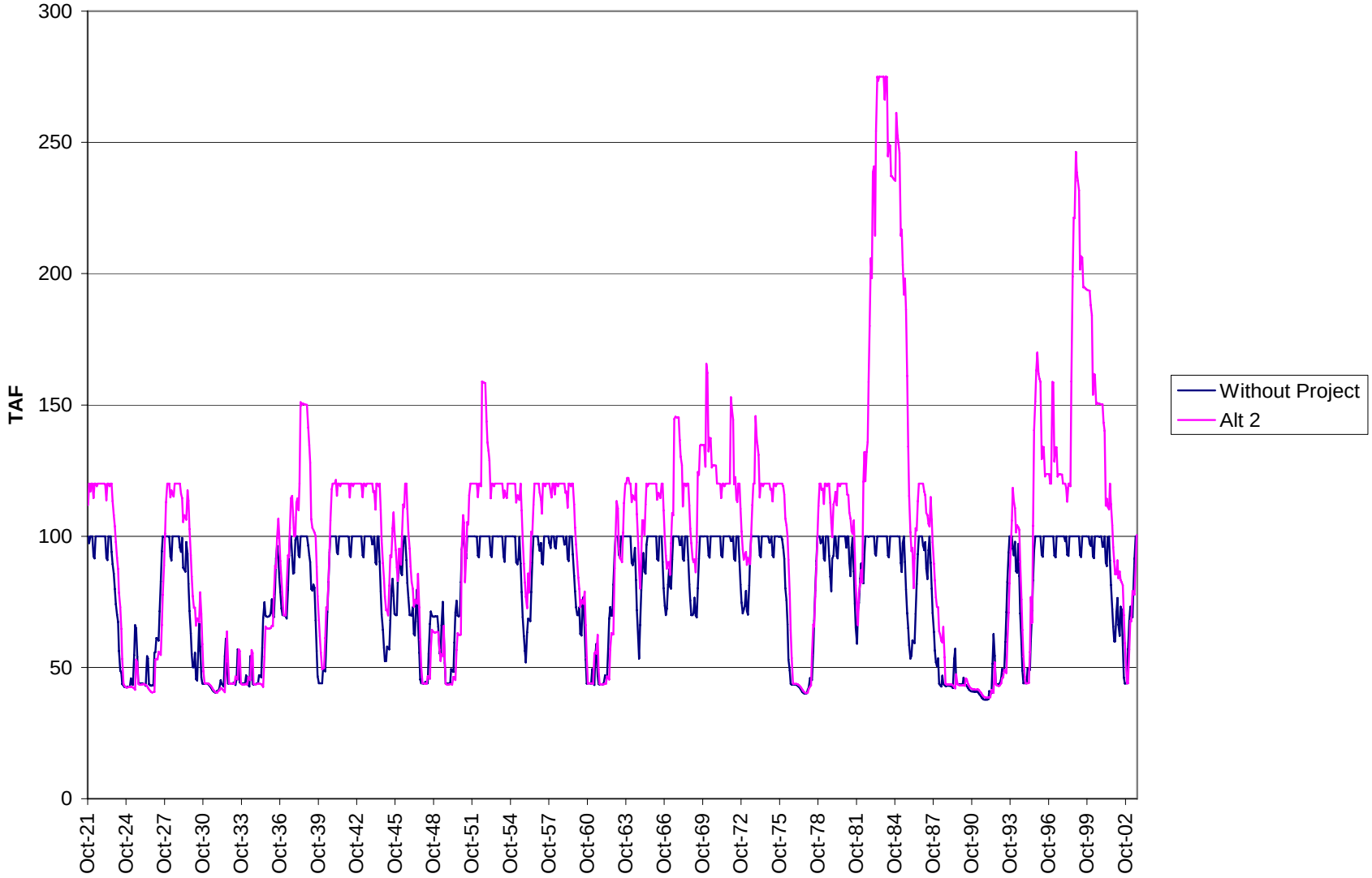

Figure C4-8: Timeseries of Alternative 2 and Base Los Vaqueros storage 2005 LOD

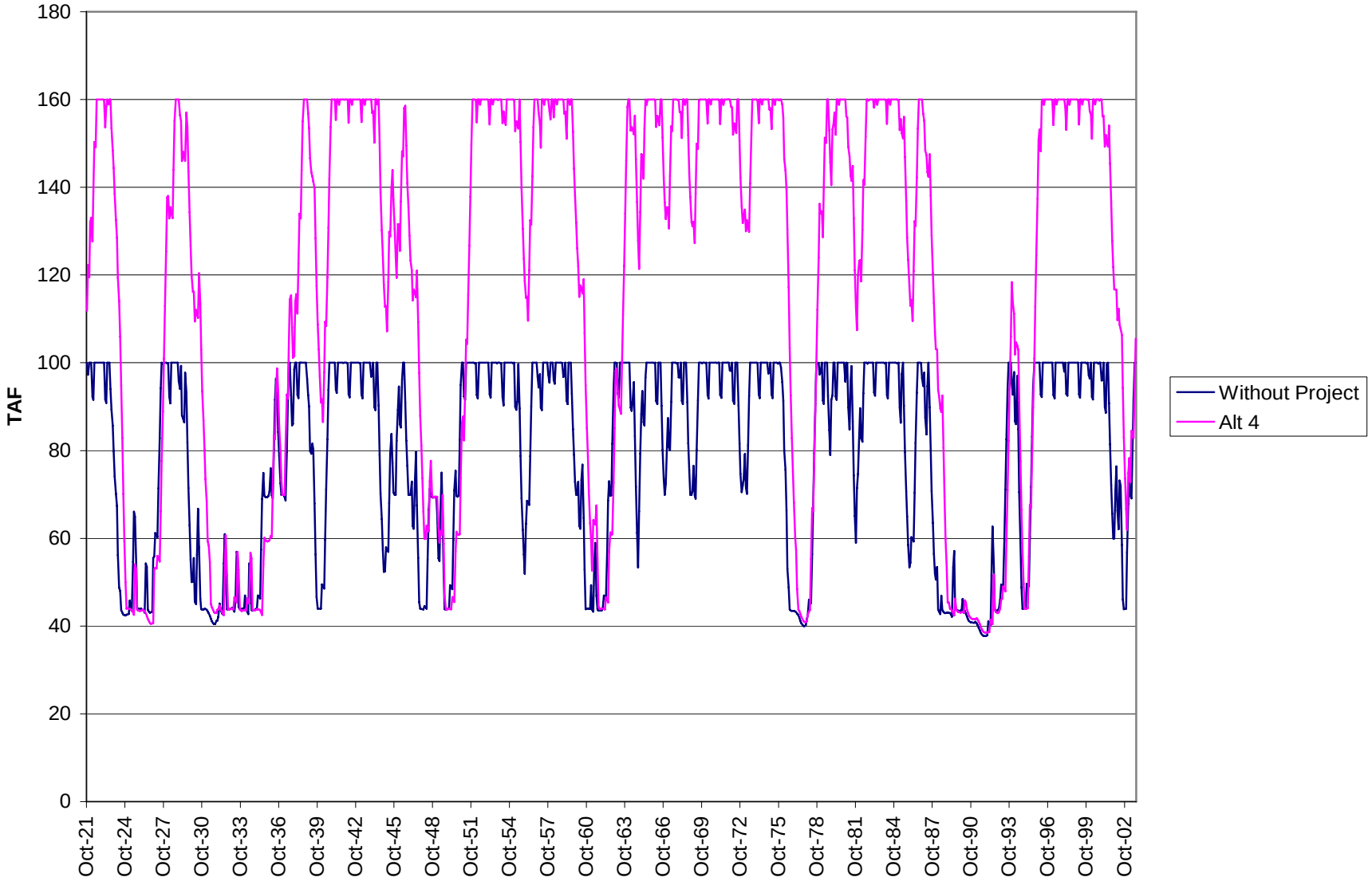

Figure C4-9: Timeseries of Alternative 4 and Base Los Vaqueros storage 2005 LOD

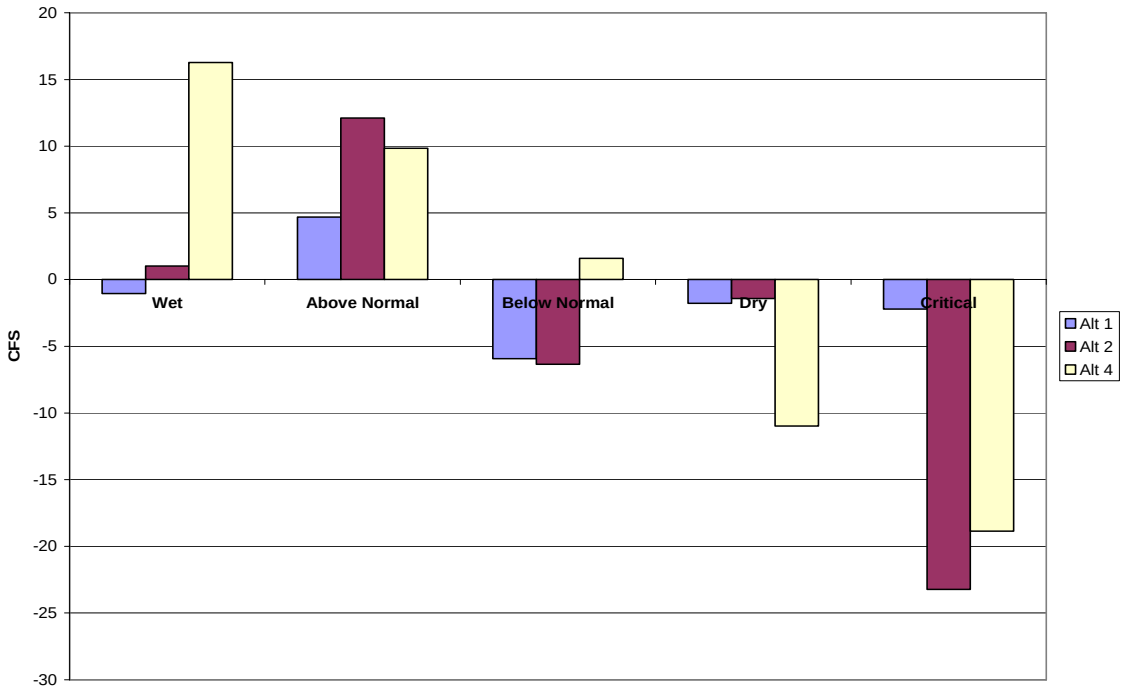

Figure C4-10: Changes in Sacramento River at Hood flow by water year type, 2005 LOD

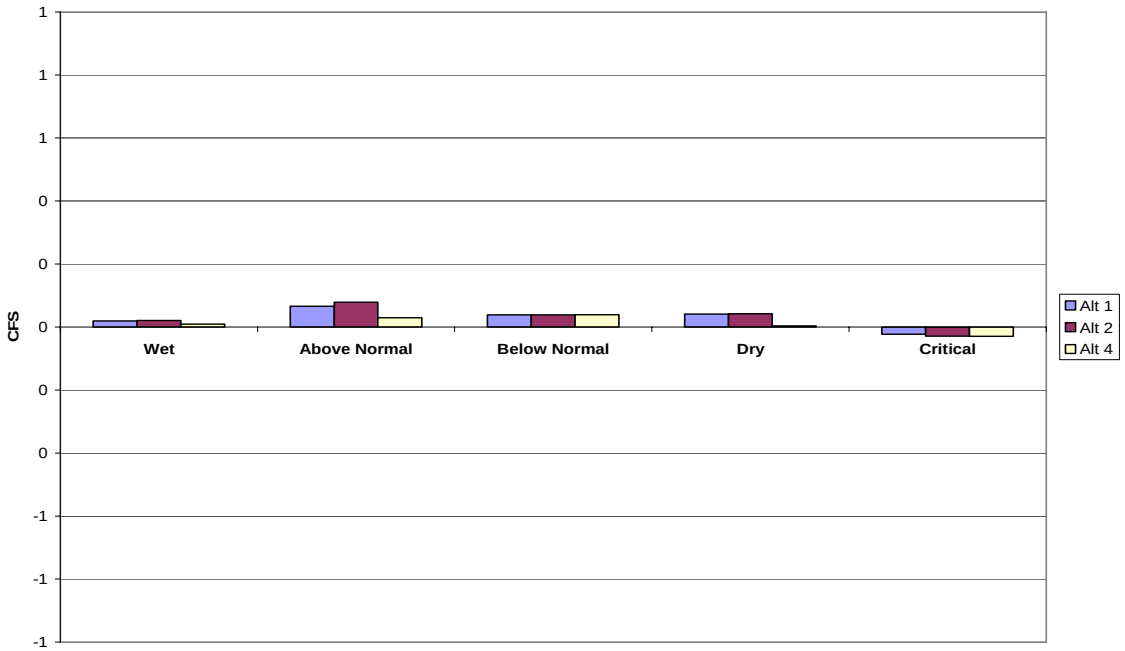

Figure C4-11: Changes in San Joaquin River at Vernalis flow by water year type, 2005 LOD

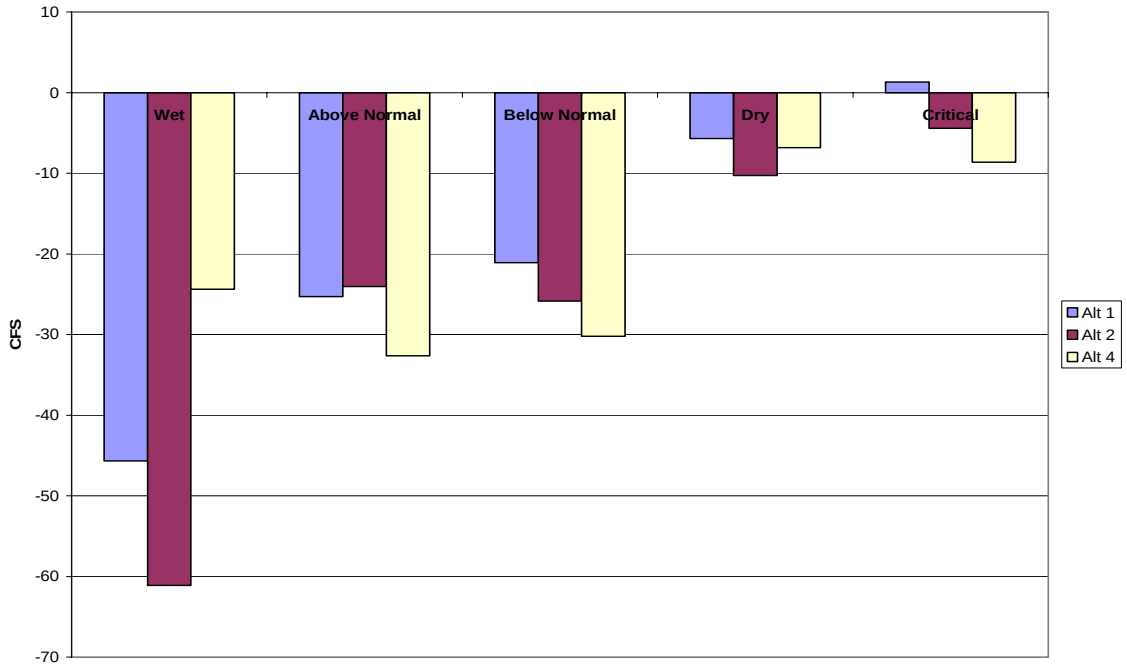

Figure C4-12: Changes in Delta Outflow by Year Type, 2005 LOD

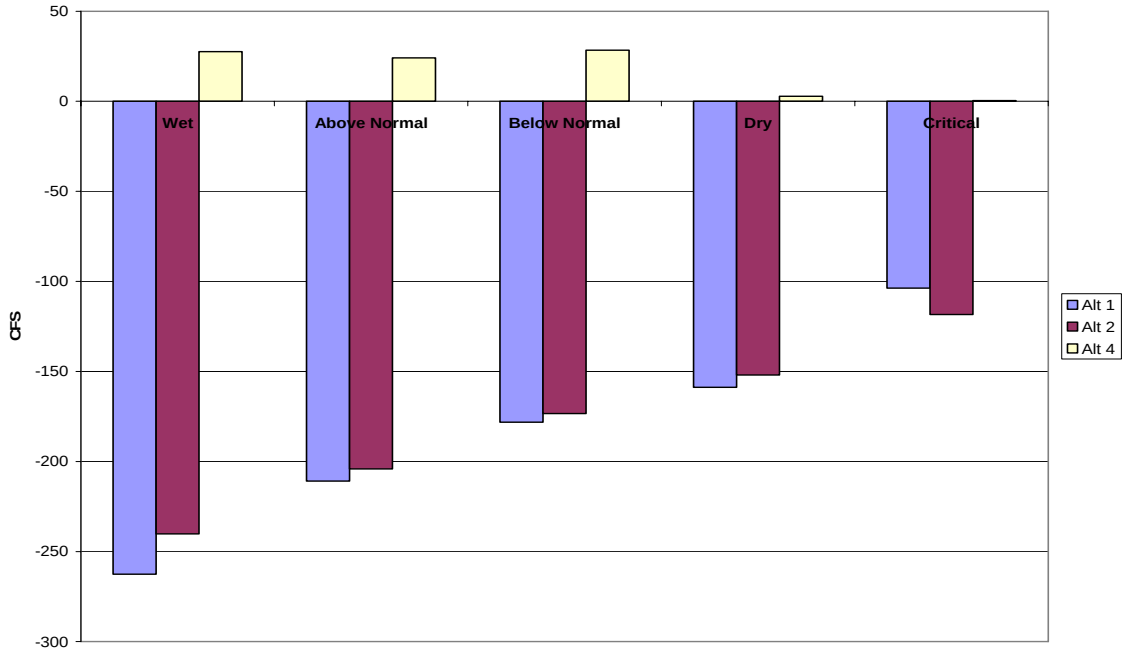

Figure C4-13: Changes in Banks + Jones Diversions by Year Type, 2005 LOD

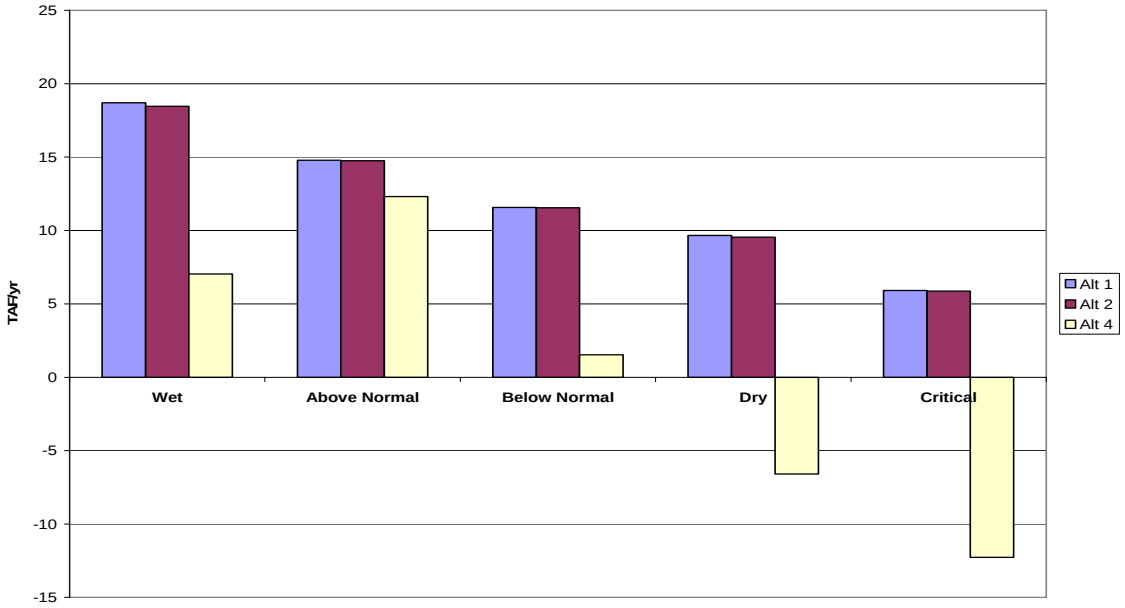

Figure C4-14: Changes in Project diversions by water year type, 2005 LOD

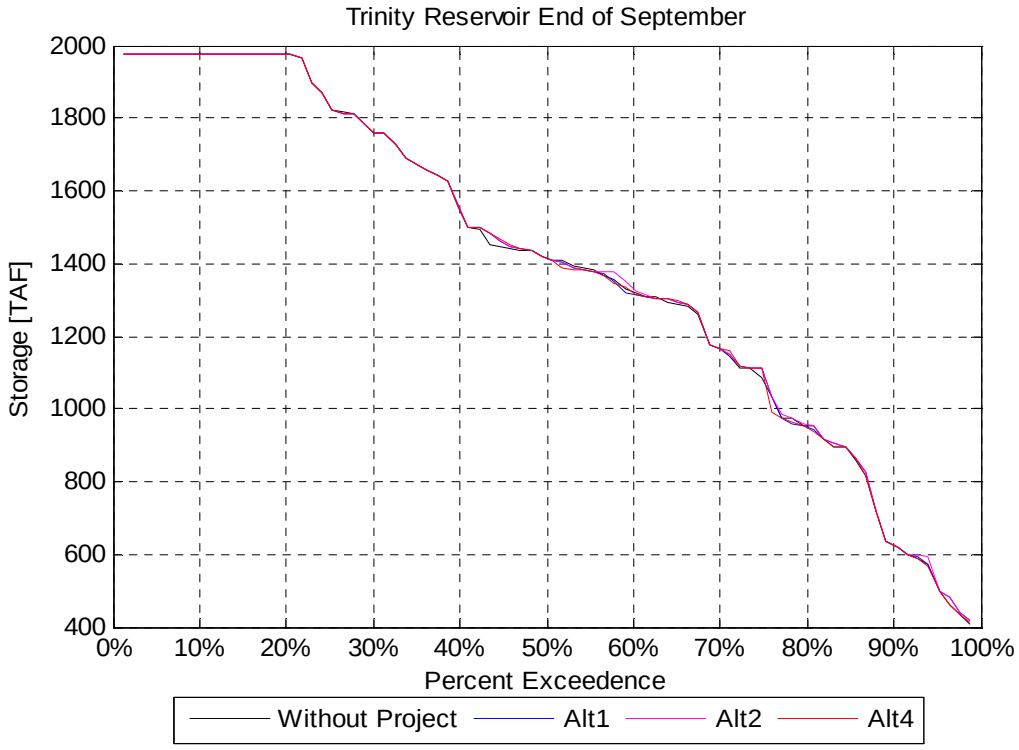

Figure C4-15: Trinity Reservoir end of September storage, 2005 LOD

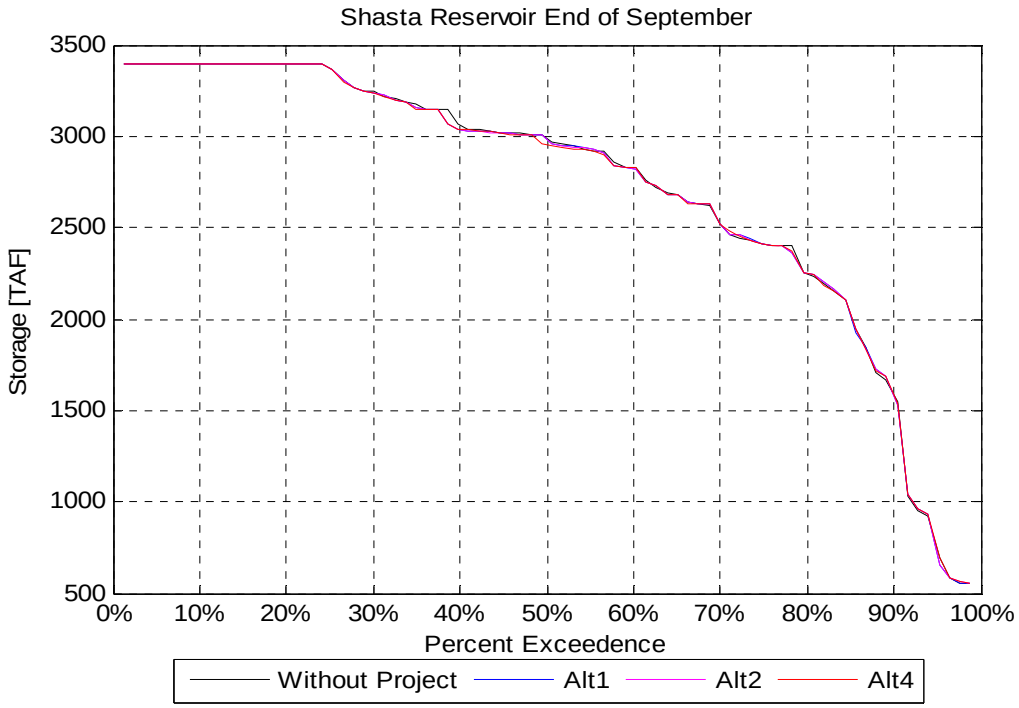

Figure C4-16: Shasta Reservoir end of September storage, 2005 LOD

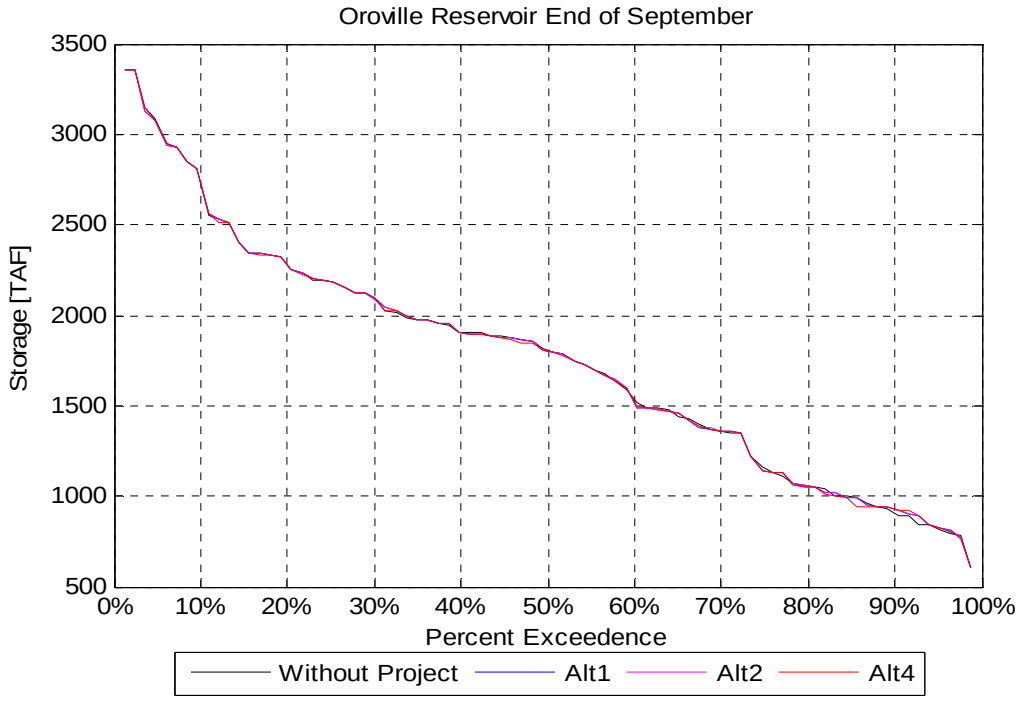

Figure C4-17: Oroville Reservoir end of September storage, 2005 LOD

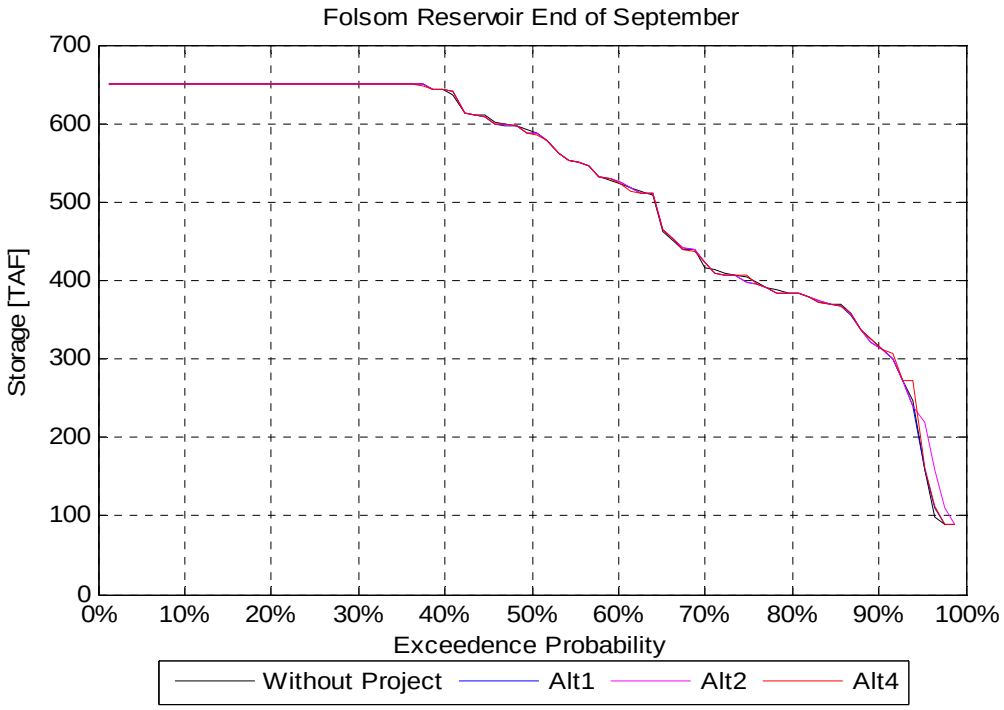

Figure C4-18: Folsom Reservoir end of September storage, 2005 LOD

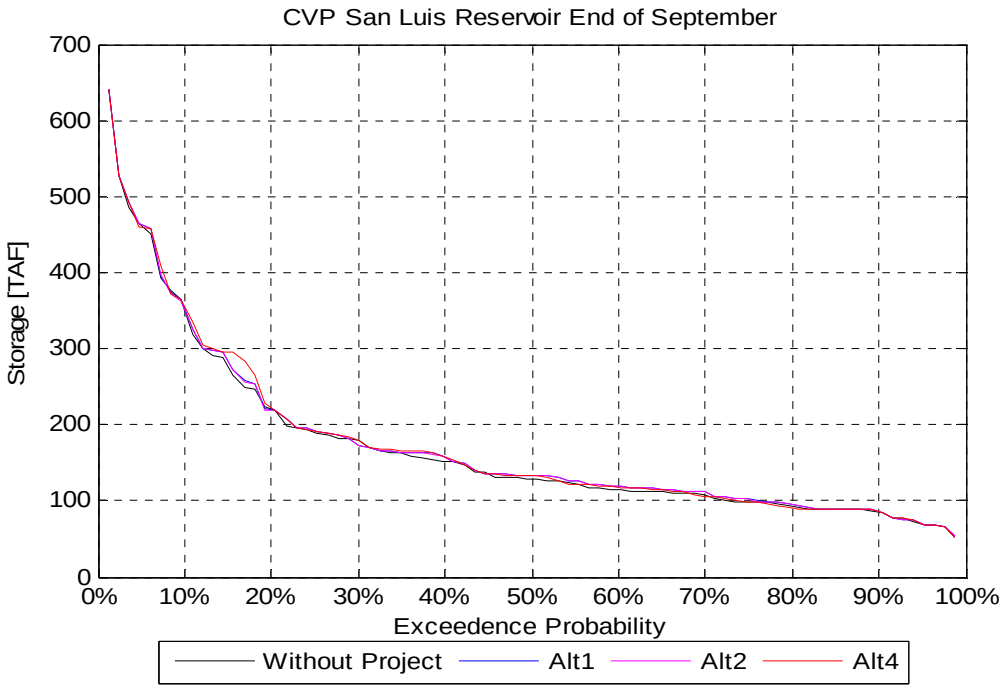

Figure C4-19: CVP San Luis Reservoir end of September storage, 2005 LOD

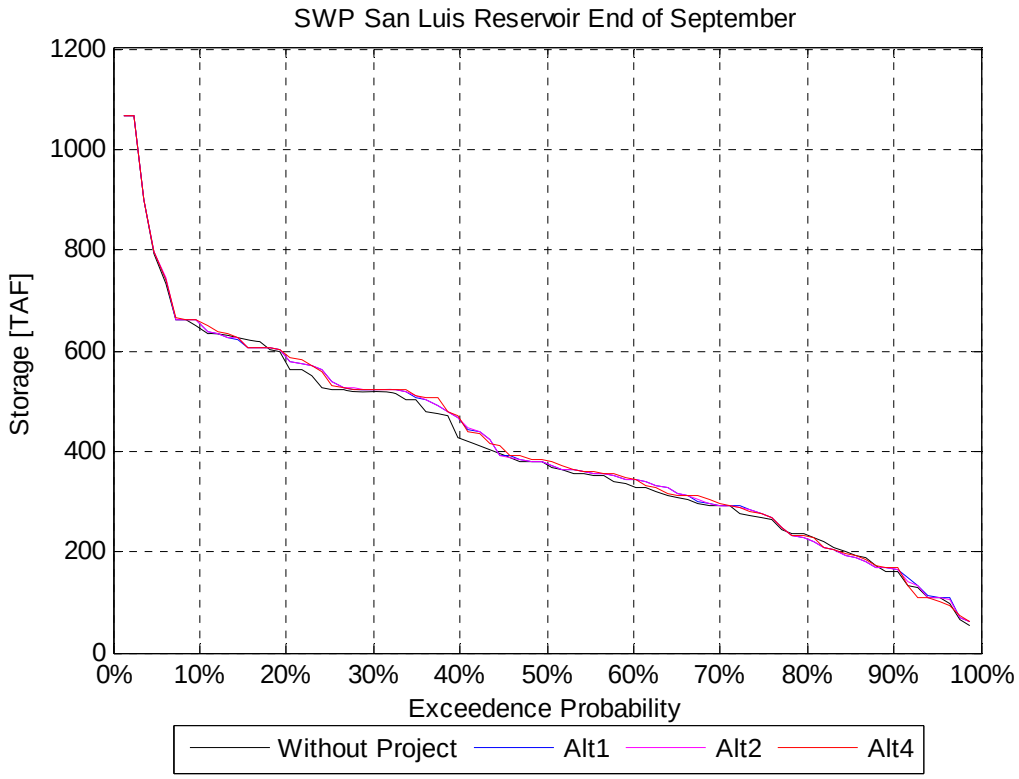

Figure C4-20: SWP San Luis Reservoir end of September storage, 2005 LOD

2030 Level of Development

Model results for each project alternative are presented in **Table C4-7 (A-D)** as average values for full hydrologic study period (1921 to 2003) and a six-year dry period (1987 to 1992). These results include upstream and Delta flows and diversions (e.g. flow in Sacramento River and major tributaries, San Joaquin River flow, exports at Banks and Jones Pumping Plants, Net Delta Outflow, X2 position and QWEST), CVP and SWP south of Delta deliveries, CVP and SWP reservoir carry-over storages (at Folsom, Oroville, San Luis, Shasta and Trinity Reservoirs), and parameters specific to project alternative operations (CCWD and Los Vaqueros Reservoir (LV) diversions; additional south of Delta Environmental Water Supply deliveries; and Delta Supply Restoration deliveries to South Bay water agencies).

Table C4-8 and **Table C4-9** present the change in Delta channel flows and indices, upstream reservoir storages and local operation parameters for each project alternative as compared to the Future Without Project condition. Results are summarized in these tables as averages by water year type and by month, respectively.

Table C4-10 (A-D) presents the changes from the Future Without Project condition in monthly Banks and Jones export diversions for each project alternative, and **Table C4-11 (A-D)** presents changes from the Future Without Project condition in monthly CCWD and Los Vaqueros Reservoir (LV) diversions for each project alternative. These tables also indicate whether the Delta is in excess or balanced conditions.

Table C4-12 presents CCWD diversions for each alternative and intake for 2030 level of development.

Monthly and year type average changes in various Delta parameters (Sacramento River flow at Hood, San Joaquin River flow at Vernalis, Delta Outflow, combined Banks/Jones diversions, and combined CCWD and LV diversions) are presented in **Figure C4-21** through **Figure C4-25** and **Figure C4-30** through **Figure C4-34**, respectively. **Figure C4-26** shows the monthly average Los Vaqueros storage and **Figure C4-27** through **Figure C4-29** show time-series of storage for each alternative and the Future Without Project condition.

Figure C4-35 through **Figure C4-40** are exceedence plots of the end of September storage in upstream reservoirs (Trinity, Shasta, Oroville, and Folsom) and San Luis Reservoir (CVP and SWP).

TABLE C4-7:
SUMMARY COMPARISON OF ANNUAL AVERAGE DIVERSIONS, DELIVERIES, RIVER FLOWS, AND CARRYOVER STORAGE, 2030 LOD

(A) ALTERNATIVE 1 COMPARED TO FUTURE WITHOUT PROJECT (NO ACTION)

	Future Without Project		Alternative 1		Difference (Alt – Fut. W.P.)		Percent Difference	
	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92
Diversions (TAF/yr)								
CCWD and LV Diversions	164	175	311	211	148	36	90%	21%
Banks Pumping Plant	2,634	1,347	2,545	1,319	-89	-29	-3%	-2%
Jones Pumping Plant	2,193	1,545	2,144	1,528	-49	-16	-2%	-1%
Total	4,990	3,067	5,000	3,058	10	-9	0%	0%
Delta (cfs)								
Sacramento River at Hood	22,342	12,363	22,344	12,349	2	-14	0%	0%
San Joaquin River at Vernalis	4,416	1,529	4,416	1,529	0	0	0%	0%
Delta Outflow	22,208	8,674	22,194	8,668	-14	-6	0%	0%
QWEST	3,080	487	3,065	490	-15	3	0%	1%
X2 Position (km)	74	82	74	82	0	0	0%	0%
Upstream River Flows (cfs)								
Sacramento River at Keswick Dam	8,627	6,066	8,628	6,063	1	-3	0%	0%
American River below Nimbus Dam	3,326	1,587	3,327	1,592	0	4	0%	0%
Feather River below Thermalito	4,395	1,995	4,395	1,979	0	-16	0%	-1%
Reservoir Carryover Storage (TAF)								
Trinity	1,403	874	1,405	870	2	-4	0%	0%
Shasta	2,720	1,897	2,716	1,892	-4	-5	0%	0%
Oroville	1,742	999	1,743	999	1	0	0%	0%
Folsom	507	302	509	303	1	0	0%	0%
CVP San Luis (August)	203	138	205	137	1	-1	1%	-1%
SWP San Luis (August)	350	181	352	179	3	-2	1%	-1%
Deliveries (TAF/yr)								
CVP SOD Ag	1,184	272	1,185	276	2	3	0%	1%
CVP SOD M&I	160	123	160	123	0	0	0%	0%
SWP Table A + Article 56	3,500	1,717	3,499	1,716	-1	-1	0%	0%
SWP Article 21	95	13	97	13	3	0	3%	0%
Delta Supply Restoration + Dry Year	0	0	9	7	9	7	NA	NA

(B) ALTERNATIVE 2 COMPARED TO FUTURE WITHOUT PROJECT (NO ACTION)

	Future Without Project		Alternative 2		Difference (Alt – Fut. W.P.)		Percent Difference	
	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92
Diversions (TAF/yr)								
CCWD and LV Diversions	164	175	310	211	147	36	90%	21%
Banks Pumping Plant	2,634	1,347	2,547	1,319	-87	-29	-3%	-2%
Jones Pumping Plant	2,193	1,545	2,147	1,529	-46	-16	-2%	-1%
Total	4,990	3,067	5,004	3,058	14	-9	0%	0%
Delta (cfs)								
Sacramento River at Hood	22,342	12,363	22,345	12,348	3	-14	0%	0%
San Joaquin River at Vernalis	4,416	1,529	4,416	1,529	0	0	0%	0%
Delta Outflow	22,208	8,674	22,190	8,667	-19	-7	0%	0%
QWEST	3,080	487	3,060	489	-20	2	-1%	0%
X2 Position (km)	74	82	74	82	0	0	0%	0%
Upstream River Flows (cfs)								
Sacramento River at Keswick Dam	8,627	6,066	8,628	6,062	2	-3	0%	0%
American River below Nimbus Dam	3,326	1,587	3,327	1,591	0	4	0%	0%
Feather River below Thermalito	4,395	1,995	4,395	1,982	0	-12	0%	-1%
Reservoir Carryover Storage (TAF)								
Trinity	1,403	874	1,405	870	2	-4	0%	0%
Shasta	2,720	1,897	2,716	1,892	-4	-4	0%	0%
Oroville	1,742	999	1,742	1,000	1	1	0%	0%
Folsom	507	302	509	303	1	0	0%	0%
CVP San Luis (August)	203	138	205	137	1	-1	1%	-1%
SWP San Luis (August)	350	181	352	179	2	-2	1%	-1%
Deliveries (TAF/yr)								
CVP SOD Ag	1,184	272	1,186	275	2	3	0%	1%
CVP SOD M&I	160	123	160	123	0	0	0%	0%
SWP Table A + Article 56	3,500	1,717	3,500	1,717	-1	-1	0%	0%
SWP Article 21	95	13	95	13	0	0	0%	0%

TABLE C4-7:
SUMMARY COMPARISON OF ANNUAL AVERAGE DIVERSIONS, DELIVERIES, RIVER FLOWS, AND CARRYOVER STORAGE, 2030 LOD

Additional SOD Env Water Supply	0	0	16	0	16	0	NA	NA

(D) ALTERNATIVE 4 COMPARED TO FUTURE WITHOUT PROJECT (NO ACTION)

	Future Without Project		Alternative 4		Difference (Alt – Fut. W.P.)		Percent Difference	
	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92	Avg	87 - 92
Diversions (TAF/yr)								
CCWD and LV Diversions	164	175	310	211	147	36	90%	21%
Banks Pumping Plant	2,634	1,347	2,547	1,319	-87	-29	-3%	-2%
Jones Pumping Plant	2,193	1,545	2,147	1,529	-46	-16	-2%	-1%
Total	4,990	3,067	5,004	3,058	14	-9	0%	0%
Delta (cfs)								
Sacramento River at Hood	22,342	12,363	22,345	12,348	3	-14	0%	0%
San Joaquin River at Vernalis	4,416	1,529	4,416	1,529	0	0	0%	0%
Delta Outflow	22,208	8,674	22,190	8,667	-19	-7	0%	0%
QWEST	3,080	487	3,060	489	-20	2	-1%	0%
X2 Position (km)	74	82	74	82	0	0	0%	0%
Upstream River Flows (cfs)								
Sacramento River at Keswick Dam	8,627	6,066	8,628	6,062	2	-3	0%	0%
American River below Nimbus Dam	3,326	1,587	3,327	1,591	0	4	0%	0%
Feather River below Thermalito	4,395	1,995	4,395	1,982	0	-12	0%	-1%
Reservoir Carryover Storage (TAF)								
Trinity	1,403	874	1,405	863	1	-11	0%	-1%
Shasta	2,720	1,897	2,715	1,883	-5	-13	0%	-1%
Oroville	1,742	999	1,740	995	-2	-4	0%	0%
Folsom	507	302	509	302	1	0	0%	0%
CVP San Luis (August)	203	138	205	138	2	0	1%	0%
SWP San Luis (August)	350	181	353	184	3	3	1%	2%
Deliveries (TAF/yr)								
CVP SOD Ag	1,184	272	1,186	275	2	3	0%	1%
CVP SOD M&I	160	123	160	123	0	0	0%	0%
SWP Table A + Article 56	3,500	1,717	3,500	1,717	-1	-1	0%	0%
SWP Article 21	95	13	95	13	0	0	0%	0

TABLE C4-8:
ANNUAL VALUES BY WATER YEAR TYPE, 2030 LOD

Parameter	Long Term Average	Wet	Above Normal	Below Normal	Dry	Critical
CCWD and LV Diversions (TAF/yr)						
Average Total Diversions Future Without Project	**164**	**164**	**180**	**169**	**149**	**161**
Changes under Alternative 1	148	224	166	128	104	53
Changes under Alternative 2	147	222	166	127	104	53
Changes under Alternative 4	1	8	12	3	-7	-14
CVP and SWP Improved Fish Screening Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	136	190	159	121	105	57
Changes under Alternative 2	279	179	158	120	104	57
Changes under Alternative 4	0	0	0	0	0	0
Delta (cfs)						
Sacramento River at Hood Future Without Project	**22,342**	**33,446**	**25,809**	**17,951**	**14,932**	**11,053**
Changes under Alternative 1	2	3	7	-4	10	-8
Changes under Alternative 2	3	3	10	-3	9	-8
Changes under Alternative 4	3	4	10	1	10	-12
San Joaquin River at Vernalis Future Without Project	**4,416**	**7,601**	**4,213**	**3,531**	**2,428**	**1,737**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
Delta Outflow Future Without Project	**22,208**	**40,299**	**24,482**	**14,357**	**10,639**	**7,252**
Changes under Alternative 1	-14	-34	-10	-26	17	-8

TABLE C4-8:
ANNUAL VALUES BY WATER YEAR TYPE, 2030 LOD

Parameter	Long Term Average	Wet	Above Normal	Below Normal	Dry	Critical
Changes under Alternative 2	-19	-49	-20	-13	15	-8
Changes under Alternative 4	-13	-13	-25	-32	7	-10
Banks Pumping Plant Future Without Project	**3,632**	**4,623**	**3,932**	**3,656**	**3,024**	**2,071**
Changes under Alternative 1	-123	-183	-139	-92	-104	-40
Changes under Alternative 2	-120	-171	-131	-107	-104	-40
Changes under Alternative 4	4	1	5	19	-4	4
Jones Pumping Plant Future Without Project	**3,024**	**3,521**	**3,175**	**3,089**	**2,775**	**2,094**
Changes under Alternative 1	-67	-89	-73	-66	-53	-35
Changes under Alternative 2	-63	-82	-68	-65	-51	-35
Changes under Alternative 4	7	4	8	4	12	7
Banks + Jones Exports Future Without Project	**6,656**	**8,144**	**7,106**	**6,745**	**5,799**	**4,165**
Changes under Alternative 1	-190	-272	-212	-159	-157	-75
Changes under Alternative 2	-183	-253	-199	-171	-154	-75
Changes under Alternative 4	11	5	13	24	8	11
Banks + Jones + CCWD + LV Diversions Future Without Project	**6,882**	**8,370**	**7,355**	**6,978**	**6,005**	**4,386**
Changes under Alternative 1	14	37	18	17	-13	-2
Changes under Alternative 2	19	53	30	5	-11	-2
Changes under Alternative 4	12	16	29	27	-2	-8
QWEST Future Without Project	**3,080**	**7,296**	**3,165**	**1,254**	**239**	**251**
Changes under Alternative 1	-15	-37	-15	-17	8	0
Changes under Alternative 2	-20	-53	-26	-4	6	-1
Changes under Alternative 4	-14	-16	-24	-33	-2	5
X2 Position (km) Future Without Project	**74**	**67**	**72**	**76**	**78**	**83**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
Upstream River Flows (cfs)						
Sacramento River at Keswick Dam Future Without Project	**8,627**	**11,760**	**9,037**	**6,985**	**6,671**	**6,276**
Changes under Alternative 1	1	-2	-3	3	13	-5
Changes under Alternative 2	2	-2	-2	3	13	-5
Changes under Alternative 4	2	-3	5	5	13	-12
American River below Nimbus Dam Future Without Project	**3,326**	**5,284**	**3,735**	**2,738**	**1,997**	**1,355**
Changes under Alternative 1	0	1	0	4	-1	-5
Changes under Alternative 2	0	1	0	4	-1	-5
Changes under Alternative 4	0	1	0	5	-1	-7
Feather River below Thermalito Future Without Project	**4,395**	**7,002**	**4,619**	**3,218**	**2,857**	**2,200**
Changes under Alternative 1	0	6	10	-9	-13	7
Changes under Alternative 2	0	5	12	-10	-13	9
Changes under Alternative 4	0	4	3	-8	-9	12
Reservoir Carryover Storage (TAF)						
Trinity Future Without Project	**1,403**	**1,852**	**1,629**	**1,257**	**1,143**	**745**
Changes under Alternative 1	2	2	0	13	-3	-2
Changes under Alternative 2	2	2	0	13	-3	-2
Changes under Alternative 4	1	0	-1	12	-3	-1
Shasta Future Without Project	**2,720**	**3,223**	**3,060**	**2,928**	**2,485**	**1,382**
Changes under Alternative 1	-4	-1	2	-17	-4	-1
Changes under Alternative 2	-4	-1	1	-17	-4	0
Changes under Alternative 4	-5	-2	-1	-18	-5	-1
Oroville Future Without Project	**1,742**	**2,364**	**1,920**	**1,822**	**1,194**	**897**
Changes under Alternative 1	1	0	-2	-5	11	-2
Changes under Alternative 2	1	0	-3	-6	12	-3
Changes under Alternative 4	-2	0	-3	-11	6	-3
Folsom Future Without Project	**507**	**607**	**565**	**584**	**430**	**256**
Changes under Alternative 1	1	0	0	4	0	5
Changes under Alternative 2	1	0	0	4	0	5
Changes under Alternative 4	1	-1	-1	3	0	6
CVP San Luis (August) Future Without Project	**203**	**208**	**136**	**251**	**180**	**237**
Changes under Alternative 1	1	0	1	6	2	-2
Changes under Alternative 2	1	0	1	5	3	-2
Changes under Alternative 4	2	0	1	7	3	0
SWP San Luis (August) Future Without Project	**350**	**508**	**393**	**223**	**288**	**199**
Changes under Alternative 1	3	4	4	7	-6	7
Changes under Alternative 2	2	4	5	4	-6	7

TABLE C4-8:
ANNUAL VALUES BY WATER YEAR TYPE, 2030 LOD

Parameter	Long Term Average	Wet	Above Normal	Below Normal	Dry	Critical
Changes under Alternative 4	3	3	3	7	-4	9
CVP and SWP Deliveries (TAF/year)						
CVP SOD Ag Future Without Project	**1,184**	**1,799**	**1,331**	**1,101**	**832**	**327**
Changes under Alternative 1	2	0	8	-6	4	3
Changes under Alternative 2	2	0	12	-5	4	3
Changes under Alternative 4	6	5	10	-3	12	5
CVP SOD M&I Future Without Project	**160**	**182**	**165**	**159**	**150**	**123**
Changes under Alternative 1	0	0	0	1	0	1
Changes under Alternative 2	0	0	0	1	0	1
Changes under Alternative 4	0	0	0	1	1	0
SWP Table A + Article 56 Future Without Project	**3,500**	**4,377**	**3,682**	**3,618**	**3,007**	**2,021**
Changes under Alternative 1	-1	-2	-3	9	-10	4
Changes under Alternative 2	-1	-1	0	8	-11	5
Changes under Alternative 4	3	-4	-4	22	-2	8
SWP Article 21 Future Without Project	**95**	**170**	**87**	**46**	**55**	**58**
Changes under Alternative 1	3	2	1	6	3	-1
Changes under Alternative 2	0	2	1	-7	2	-1
Changes under Alternative 4	2	1	1	6	2	-2
Improved Fish Screening for CVP South Bay Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	69	89	80	67	58	37
Changes under Alternative 2	66	82	79	66	56	37
Changes under Alternative 4	0	0	0	0	0	0
Improved Fish Screening for SWP South Bay Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	125	188	147	103	91	41
Changes under Alternative 2	120	175	143	102	90	41
Changes under Alternative 4	0	0	0	0	0	0
LV CVP Delta Supply Restoration Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	2	3	2	1	2	0
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
SWP South Bay Delta Supply Restoration Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	7	10	4	5	8	3
Changes under Alternative 2	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0
Additional CVP SOD Environmental Water from Dedicated Storage Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	0	0	0	0	0	0
Changes under Alternative 2	15	34	7	8	9	0
Changes under Alternative 4	0	0	0	0	0	0

TABLE C4-9:
AVERAGE MONTHLY VALUES, 2030 LOD

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
CCWD and LV Diversions (TAF)												
Average Total Diversions												
Future Without Project	**14**	**10**	**9**	**9**	**9**	**9**	**4**	**14**	**26**	**25**	**20**	**15**
Changes under Alternative 1	13	13	14	12	9	-6	26	17	9	16	11	13
Changes under Alternative 2	13	13	13	12	10	-6	26	17	8	16	11	12
Changes under Alternative 4	0	0	0	-1	-2	-6	12	5	-9	1	1	0
CVP and SWP Improved Fish												
Screening Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	13	10	13	11	10	0	13	12	18	14	10	12
Changes under Alternative 2	13	9	13	10	10	0	12	12	17	14	10	12
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Delta (cfs)												
Sacramento River at Hood												
Future Without Project	**11,444**	**15,210**	**26,159**	**33,192**	**39,127**	**33,665**	**23,357**	**18,930**	**16,236**	**18,792**	**15,697**	**16,292**
Changes under Alternative 1	21	-6	-20	4	61	31	-34	14	26	-16	-40	-16
Changes under Alternative 2	23	4	-20	5	61	29	-34	7	25	-16	-39	-12
Changes under Alternative 4	22	7	-28	-7	40	25	-31	13	27	-1	-35	8
San Joaquin River at Vernalis												
Future Without Project	**2,899**	**2,675**	**3,280**	**4,701**	**6,094**	**6,968**	**7,529**	**6,514**	**4,716**	**3,209**	**2,072**	**2,342**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Delta Outflow												
Future Without Project	**7,142**	**11,334**	**23,912**	**41,921**	**51,793**	**42,484**	**30,921**	**22,479**	**12,549**	**7,917**	**5,847**	**8,199**
Changes under Alternative 1	1	-70	-33	-33	94	222	-263	-61	37	-42	-27	7
Changes under Alternative 2	-2	-79	7	-35	86	182	-267	-76	28	-44	-26	3
Changes under Alternative 4	8	12	-86	-15	74	133	-243	-62	39	-16	-21	17
Banks Pumping Plant												
Future Without Project	**2,824**	**2,942**	**4,637**	**3,599**	**4,215**	**4,080**	**1,120**	**1,105**	**2,522**	**6,122**	**5,462**	**4,958**
Changes under Alternative 1	-135	-53	-101	-42	-142	-59	-158	-187	-138	-182	-133	-145
Changes under Alternative 2	-131	-45	-133	-42	-147	-36	-155	-182	-124	-179	-132	-136
Changes under Alternative 4	-3	-4	24	28	-25	-8	2	0	79	-13	-12	-20
Jones Pumping Plant												
Future Without Project	**3,331**	**3,730**	**3,857**	**3,230**	**2,971**	**2,835**	**1,062**	**1,080**	**2,407**	**3,887**	**3,879**	**4,021**
Changes under Alternative 1	-72	-95	-120	-119	-46	-28	-52	-14	-24	-69	-76	-90
Changes under Alternative 2	-71	-80	-120	-116	-37	-12	-52	-14	-21	-70	-75	-89
Changes under Alternative 4	7	0	23	-15	35	2	0	0	61	-5	-26	1
Banks + Jones Exports												
Future Without Project	**6,155**	**6,672**	**8,494**	**6,828**	**7,187**	**6,915**	**2,182**	**2,185**	**4,928**	**10,009**	**9,341**	**8,979**
Changes under Alternative 1	-207	-148	-221	-161	-188	-87	-210	-201	-161	-251	-208	-235
Changes under Alternative 2	-201	-125	-254	-158	-185	-48	-206	-196	-145	-249	-208	-225
Changes under Alternative 4	4	-4	47	13	10	-7	2	0	140	-18	-38	-20
Banks + Jones + CCWD + LV												
Diversions Future Without Project	**6,381**	**6,841**	**8,646**	**6,970**	**7,351**	**7,056**	**2,243**	**2,416**	**5,371**	**10,413**	**9,660**	**9,232**
Changes under Alternative 1	10	66	5	36	-21	-185	229	75	-10	16	-26	-24
Changes under Alternative 2	15	85	-35	38	-14	-146	233	83	-2	18	-25	-16
Changes under Alternative 4	3	-1	44	1	-21	-111	211	75	-11	1	-26	-15

TABLE C4-9:
AVERAGE MONTHLY VALUES, 2030 LOD

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
QWEST Future Without Project	**554**	**236**	**520**	**5,802**	**7,870**	**7,193**	**9,994**	**7,524**	**3,150**	**-1,937**	**-2,316**	**-1,631**
Changes under Alternative 1	2	-64	-2	-35	29	189	-234	-73	17	-32	1	18
Changes under Alternative 2	-3	-80	38	-37	22	150	-238	-82	9	-34	1	12
Changes under Alternative 4	-4	1	-39	-2	29	114	-215	-73	18	-16	3	14
X2 Position (km)												
Future Without Project	**83**	**83**	**80**	**76**	**69**	**64**	**63**	**65**	**68**	**74**	**79**	**83**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
E/I Ratio Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Upstream River Flows (cfs)												
Sacramento River at Keswick Dam												
Future Without Project	**6,448**	**5,901**	**7,665**	**8,336**	**10,434**	**8,570**	**6,716**	**7,804**	**10,726**	**13,074**	**10,461**	**7,387**
Changes under Alternative 1	-23	-3	-6	-12	52	-5	8	18	-15	-4	-1	8
Changes under Alternative 2	-23	-4	-6	-12	52	-5	8	18	-15	-3	-1	10
Changes under Alternative 4	-14	14	-16	-25	30	-10	8	19	-14	-1	2	25
American River below Nimbus Dam												
Future Without Project	**1,547**	**2,591**	**3,467**	**4,348**	**5,136**	**3,742**	**3,243**	**3,484**	**3,593**	**3,634**	**2,574**	**2,559**
Changes under Alternative 1	19	3	2	4	1	-2	4	-9	-18	10	-15	3
Changes under Alternative 2	19	2	2	4	1	-2	4	-9	-18	10	-15	3
Changes under Alternative 4	24	-2	2	3	0	-3	4	-9	-18	10	-15	3
Feather River below Thermalito												
Future Without Project	**2,870**	**2,232**	**4,097**	**4,028**	**5,320**	**5,527**	**3,017**	**3,585**	**3,737**	**7,602**	**6,147**	**4,572**
Changes under Alternative 1	24	-6	-48	10	19	21	0	5	36	-23	-13	-23
Changes under Alternative 2	24	2	-48	10	18	24	-1	-1	35	-23	-13	-25
Changes under Alternative 4	24	-5	-50	7	19	11	1	4	37	-11	-16	-19
CVP and SWP Deliveries (TAF)												
CVP SOD Ag Future Without Project	**446**	**341**	**471**	**827**	**1,034**	**600**	**936**	**1,464**	**2,445**	**2,938**	**2,006**	**695**
Changes under Alternative 1	1	0	0	0	0	-1	0	1	1	3	14	0
Changes under Alternative 2	1	0	0	0	0	0	0	2	3	4	16	1
Changes under Alternative 4	2	1	2	3	4	0	2	6	10	13	24	3
CVP SOD M&I												
Future Without Project	**142**	**191**	**189**	**125**	**63**	**185**	**163**	**146**	**151**	**171**	**182**	**213**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	2	0
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	2	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	1	0
SWP Table A + Article 56												
Future Without Project	**3,076**	**2,767**	**2,754**	**1,652**	**2,372**	**2,524**	**3,291**	**4,057**	**4,896**	**5,561**	**5,235**	**3,818**
Changes under Alternative 1	-2	-20	-2	7	-1	20	-1	-4	15	-7	-10	-6
Changes under Alternative 2	-1	-20	-1	7	0	14	0	-3	17	-6	-9	-5
Changes under Alternative 4	3	-13	-3	7	-4	13	6	4	39	-2	-10	-7
SWP Article 21												
Future Without Project	**29**	**40**	**20**	**136**	**313**	**407**	**72**	**53**	**29**	**26**	**3**	**10**
Changes under Alternative 1	0	0	2	9	5	15	0	0	0	0	0	0
Changes under Alternative 2	0	0	2	8	-7	-2	0	0	0	0	0	0

TABLE C4-9:
AVERAGE MONTHLY VALUES, 2030 LOD

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Changes under Alternative 4	0	0	1	8	0	9	0	0	0	0	0	0
Improved Fish Screening for CVP South Bay Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	75	102	115	106	67	31	52	14	86	61	49	77
Changes under Alternative 2	73	92	111	104	65	15	51	14	84	60	49	79
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Improved Fish Screening for SWP South Bay Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	140	63	98	67	111	50	158	187	214	166	114	128
Changes under Alternative 2	137	60	95	65	109	38	155	182	200	162	114	120
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
CVP South Bay Delta Supply Restoration Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	1	3	3	3	2	4	1	1	2	0	1	1
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
SWP South Bay Delta Supply Restoration Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	5	15	15	2	4	7	1	4	17	2	7	6
Changes under Alternative 2	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0
Additional CVP SOD Environmental Water from Dedicated Storage Future Without Project	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Changes under Alternative 1	0	0	0	0	0	0	0	0	0	0	0	0
Changes under Alternative 2	12	45	27	13	19	8	1	10	29	2	2	14
Changes under Alternative 4	0	0	0	0	0	0	0	0	0	0	0	0

TABLE C4-10:
CHANGES IN BANKS + JONES EXPORTS (CFS), 2030 LOD

(A) Alternative 1

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-408	-176	227	-205	-236	4	-377	-400	-254	-400	-400	-359
1923	-391	-397	-148	-396	-254	0	-256	-176	-330	-304	-553	319
1924	-60	-118	-140	-140	-88	0	0	0	0	-67	0	43
1925	0	-6	-56	-68	-93	0	-181	-157	-142	-374	0	-1740
1926	-348	702	-67	-74	-97	2	-88	-185	-302	-21	-6	-133
1927	-20	0	-248	-118	-83	38	-246	-264	-200	-400	-135	-617
1928	-396	-342	-732	-170	-118	0	-261	-295	-254	-501	-322	-329
1929	-395	-161	-366	-133	-94	29	-57	-97	0	-781	102	-141
1930	-156	-134	-179	-73	-53	38	-86	-135	-194	-226	-34	-197
1931	-4	-43	-67	-74	-61	0	0	0	-40	52	0	0
1932	-3	-20	-58	-90	-64	49	-92	-141	-101	-574	426	-184
1933	6	-43	-69	-74	-110	0	-83	-140	-10	1517	-130	-94
1934	71	94	-625	-63	-51	35	0	0	-111	-365	224	-229
1935	42	-204	-76	-66	-184	38	-331	-285	-200	108	-209	270
1936	770	852	-107	-107	12	38	-387	-280	-200	-418	-86	-52
1937	180	-134	-326	-19	-214	-702	-368	-245	-386	-461	-183	92
1938	-160	-118	-394	-234	-325	-352	-400	0	-360	-400	-400	-400
1939	-417	-230	-326	-214	-310	-194	-98	-148	-151	0	-247	-204
1940	-144	-44	-32	-1	-79	38	-302	-242	-200	-429	-133	-172
1941	-322	-366	-123	-271	-283	0	-400	-400	-285	-400	-400	-366
1942	-401	-230	-384	-383	-299	0	-343	-372	-268	-400	-400	-400
1943	-374	-388	-341	-207	-332	0	-400	-307	-381	-400	-318	-366
1944	-489	-278	-398	-193	-127	12	-110	-162	-124	-402	-6	-48
1945	-235	-88	-164	-124	-81	3	-383	-245	-200	-139	-175	-227
1946	-6	-108	-83	-369	-258	38	-179	-215	-200	-139	88	-6
1947	-134	-297	-206	-107	-130	0	-177	0	-200	55	-142	-87
1948	-3	-41	-71	-74	-97	0	-99	-184	-129	-536	-30	-42
1949	0	-58	-60	-107	-90	0	-188	-245	-254	-128	-148	-123
1950	-52	-49	-91	-74	-111	38	-136	-201	74	-130	-53	-126
1951	-32	0	-278	-327	-380	-128	-302	-266	-254	-142	-316	-359
1952	-487	-401	-367	-366	-314	0	-400	-400	-265	0	-400	-400
1953	-554	-202	-351	-391	-153	-223	-142	-146	-93	-384	-319	-396
1954	-298	-285	-334	-139	-97	-125	-136	-201	-248	-233	-240	-360
1955	-488	-222	-344	-141	-846	-79	-74	-119	-117	-473	-2504	-176
1956	-205	-189	-201	-325	-514	-111	-400	-264	-200	-400	-400	-277
1957	-405	-233	-400	-199	-149	0	-137	-192	75	-316	-402	-359
1958	-267	-86	-151	-138	-266	-16	-400	-400	-321	-400	-400	-400
1959	-400	-239	-395	-205	-158	11	-115	-170	-41	-303	-34	-192
1960	-139	-174	-168	-25	-76	0	-121	-178	-46	0	-349	-231
1961	4	-43	-68	-134	-88	38	-145	-213	970	0	-126	0
1962	345	-1810	175	-74	-90	0	-129	-190	68	-139	5	-298
1963	0	0	-68	-373	-227	-258	-154	-186	-203	-400	-357	-396
1964	-332	-320	-171	-158	-210	-2	-92	-158	-162	-296	-160	-155
1965	-176	-195	-234	-284	-95	38	-376	-264	-200	-400	-306	-366
1966	-398	-394	-197	-203	-301	0	-124	-131	-221	-290	-48	-355
1967	-176	-189	-272	-144	-228	38	-400	-264	-348	0	-400	-368
1968	-399	-274	-351	-207	-152	-208	-102	-151	-32	-304	-12	-90
1969	-165	-154	-97	-314	-378	0	-47	0	-365	-400	-400	-400
1970	-398	-239	-351	0	-339	-374	-231	-254	-191	-308	-322	-621
1971	-343	-355	-200	-362	-277	-245	-134	-167	-193	-424	-331	-368
1972	-295	-149	0	-151	-238	-315	-122	-180	-117	-297	33	-105
1973	-160	-110	-272	-149	-287	-30	-277	-253	-200	-400	-211	-506
1974	-365	0	-9	-364	-317	-374	-400	-261	-198	-400	-318	-400
1975	-389	-216	-392	-171	-297	0	-368	-231	-240	-400	-400	-366
1976	-364	-197	-384	-181	-124	0	-152	-217	-48	-107	-140	-154
1977	263	-488	-28	-46	-197	-18	0	0	-6	13	386	0
1978	-82	-40	23	-77	-63	0	-400	-266	-200	-400	-133	-172
1979	-440	-448	-398	-210	-110	0	-388	-400	-254	-304	-4	-60
1980	-119	-127	0	-154	-243	-239	-400	-400	-381	-400	-400	-359
1981	-403	-400	-227	-202	-195	0	-122	-181	-218	-39	-142	-395
1982	-117	-93	-271	-251	-167	-48	-47	-289	-161	-400	-400	-347
1983	0	0	-351	7	-398	-375	-205	-394	-394	-286	-321	-391
1984	-379	-347	-351	-391	-400	-374	-384	-266	-190	-389	-323	-370
1985	-423	-34	-362	-227	-130	-236	-264	0	-152	-56	-93	-135
1986	-39	-139	-181	-143	-96	-463	-336	-264	-332	-400	-202	-225
1987	-452	-140	-324	-167	-109	-146	-73	-116	-63	-224	-296	-106
1988	-160	-169	-200	-116	-23	-1	-46	-73	-163	4	-82	74
1989	90	-172	113	-63	-50	0	-177	-238	-254	-103	43	278
1990	-24	-42	165	-74	-76	0	-12	-89	13	-8	-420	0
1991	-59	-40	-52	0	-48	0	-48	-77	26	255	35	0
1992	-68	140	-545	672	-51	0	-46	-74	29	-1553	-86	-97
1993	-107	-40	-95	-113	-272	38	-197	-18	-200	-400	-133	-172
1994	-398	-399	-122	-176	-110	38	-111	-164	-125	-137	-369	-162
1995	-105	702	-1119	-144	-295	0	-400	0	-193	0	0	-179
1996	-345	-243	-351	-391	-246	-374	-400	-400	-201	-400	-320	-368
1997	-395	-348	-351	0	-336	-374	-237	-308	-190	-359	-321	-368
1998	-397	-350	-350	-191	-177	-374	-400	-400	-332	0	0	0
1999	-711	0	-245	-391	-315	-365	-363	-257	-195	-400	-323	-530
2000	-359	-180	-337	-168	-259	-340	-237	-226	-170	-377	-320	-362
2001	-362	-359	-316	-162	-105	-173	-78	-124	-78	-239	-57	-36
2002	-54	-120	-174	-127	113	-129	-263	-298	-200	0	-134	-509
2003	-608	861	-72	-145	-108	38	-116	-172	-48	-145	-133	-256
Average	-207	-148	-221	-161	-188	-87	-210	-201	-161	-251	-208	-235

TABLE C4-10:
CHANGES IN BANKS + JONES EXPORTS (CFS), 2030 LOD

(B) Alternative 2

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-408	-176	228	-205	-236	4	-377	-400	-254	-400	-400	-359
1923	-391	-397	-148	-396	-254	0	-256	-176	-330	-304	-553	319
1924	-60	-118	-140	-140	-88	0	0	0	0	-67	0	43
1925	0	-8	-57	-69	-93	0	-181	-157	-142	-374	0	-1740
1926	-348	702	-68	-74	-97	2	-88	-185	-303	-22	-8	-132
1927	-19	0	-248	-118	-83	38	-246	-264	-200	-400	-135	-615
1928	-396	-343	-732	-170	-118	0	-261	-295	-254	-501	-322	-329
1929	-395	-161	-366	-133	-94	29	-57	-97	0	-781	102	-141
1930	-156	-134	-179	-73	-53	38	-86	-135	-194	-226	-34	-197
1931	-3	-43	-67	-74	-61	0	0	0	-40	52	0	0
1932	-3	-20	-58	-90	-64	50	-92	-141	-101	-575	427	-184
1933	6	-43	-67	-74	-110	0	-83	-140	-10	1516	-130	-94
1934	71	94	-623	-63	-51	36	0	0	-111	-365	224	-229
1935	43	-199	-73	-66	-182	38	-332	-285	-200	111	-209	268
1936	768	852	-107	-107	13	38	-387	-280	-200	-406	-85	-53
1937	178	-134	-326	-19	-186	-700	-343	-245	-386	-458	-184	91
1938	-162	0	-394	-234	-324	-342	-400	0	-230	-400	-400	-400
1939	-417	-228	-259	-214	-309	-85	-98	-148	-151	0	-245	-263
1940	-157	-44	-31	-1	-79	38	-302	-242	-200	-430	-133	-172
1941	-319	-365	-124	-271	-283	0	-400	-400	-285	-400	-400	-366
1942	-399	-230	-384	-365	-299	0	-343	-372	-268	-400	-400	-400
1943	-374	-387	-341	-207	-332	0	-400	-307	-381	-400	-318	-366
1944	-489	-278	-397	-193	-127	12	-110	-162	-124	-401	-6	-46
1945	-235	0	-3649	-122	-79	872	-386	-245	-200	-139	-184	-227
1946	36	0	-83	-367	-256	38	-176	-214	-200	-139	88	-5
1947	-134	-298	-206	-102	-130	0	-178	0	-200	55	-138	-82
1948	4	-41	-60	-74	-96	0	-99	-184	-91	-535	-30	-42
1949	0	-58	-60	-107	-90	0	-189	-246	-254	-128	-148	-123
1950	-39	-28	-97	-74	-110	38	-136	-201	74	-130	-53	-126
1951	-32	0	-278	-327	-336	-82	-302	-266	-254	-142	-316	-359
1952	-487	-401	-367	-366	-314	0	-400	-400	-265	0	-400	-400
1953	-554	-119	-259	-345	-153	-97	-142	-146	-93	-384	-319	-403
1954	-298	-286	-330	-139	-97	0	-136	-201	-248	-235	-240	-360
1955	-488	-222	-344	-141	-846	-79	-74	-119	-117	-473	-2506	-176
1956	-205	-189	-201	-275	-479	-73	-400	-264	-200	-400	-400	-277
1957	-405	-233	-400	-199	-149	0	-137	-192	75	-316	-402	-359
1958	-267	-85	-151	-138	-266	0	-400	-400	-321	-400	-400	-400
1959	-400	-239	-396	-205	-158	11	-115	-170	-41	-303	-34	-191
1960	-139	-174	-168	-25	-76	0	-121	-178	-46	0	-348	-233
1961	5	-43	-68	-134	-88	38	-145	-213	970	0	-126	0
1962	345	-1813	176	-74	-90	0	-129	-190	68	-139	5	-298
1963	0	0	-68	-373	-227	-163	-154	-186	-256	-400	-357	-396
1964	-332	-275	-171	-158	-210	0	-92	-158	-162	-296	-166	-155
1965	-179	-200	-234	-284	-95	38	-376	-264	-200	-400	-287	-366
1966	-398	-394	-194	-203	-301	0	-124	-131	-221	-290	-48	-355
1967	-175	-189	-272	-144	-228	38	-400	-264	-230	0	-400	-368
1968	-399	-275	-259	-207	-152	-95	-102	-151	-32	-303	-12	-90
1969	-165	-155	-32	-314	-370	0	0	0	-230	-400	-400	-400
1970	-399	-240	-259	0	-339	-350	-231	-254	-89	-309	-320	-619
1971	-343	-163	-200	-363	-277	-46	-134	-167	-193	-424	-328	-366
1972	-295	-148	0	-150	-238	-315	-122	-180	-193	-290	45	-100
1973	-159	0	-272	-149	-287	38	-277	-253	-200	-400	-191	-504
1974	-365	0	-5	-345	-317	-181	-400	-261	-266	-400	-318	-400
1975	-389	-216	-397	-171	-298	0	-368	-231	-240	-400	-400	-366
1976	-364	-202	-340	-181	-123	0	-152	-217	-48	-111	-144	-158
1977	263	-490	-28	-67	-197	-18	0	0	-6	6	383	0
1978	-70	-40	10	-77	-63	0	-400	-266	-200	-400	-133	-172
1979	-443	-449	-399	-210	-110	0	-388	-400	-254	-304	-4	-63
1980	-121	-128	0	-154	-193	-107	-400	-400	-381	-400	-400	-359
1981	-402	-400	-227	-202	-195	0	-122	-181	-218	-39	-141	-395
1982	-117	0	-271	-251	-167	-48	0	-293	-30	-400	-400	-126
1983	0	0	-259	7	-341	-350	0	0	-230	0	-338	-126
1984	-82	-155	-259	-345	-352	-350	-384	-266	-89	-390	-323	-370
1985	-423	0	-294	-227	-130	-236	-264	0	-84	-52	-89	-126
1986	40	-139	-179	-143	-96	-269	-320	-264	-295	-400	-203	-259
1987	-421	-140	-399	-169	-109	0	-73	-116	-63	-224	-296	-105
1988	-160	-169	-200	-116	-23	-1	-46	-73	-163	4	-82	74
1989	82	-170	127	-63	-51	0	-177	-238	-254	-100	39	273
1990	-23	-42	162	-74	-76	0	-12	-89	13	-9	-403	0
1991	-57	-40	-52	0	-48	0	-48	-77	24	242	30	0
1992	-62	125	-499	672	-51	0	-46	-74	29	-1564	-83	-97
1993	-106	-40	-95	-113	-273	38	-197	-18	-200	-400	-133	-172
1994	-398	-399	-122	-176	-110	38	-111	-164	-125	-137	-369	-162
1995	-105	698	-1113	-144	-295	0	-400	0	-159	0	0	-179
1996	-345	-243	-259	-345	-246	-349	-400	-400	-100	-400	-319	-366
1997	-395	-374	-380	0	-336	-350	-237	-308	-89	-360	-319	-367
1998	-397	-340	-397	-191	-128	0	-400	-400	-230	0	0	0
1999	-711	0	-156	-345	-315	-350	-363	-257	-94	-400	-322	-530
2000	-359	-180	-337	-167	-259	-333	-237	-226	-106	-378	-318	-361
2001	-362	-360	-316	-161	-105	-173	-78	-124	-78	-225	-63	-46
2002	-54	-127	-174	-127	17	38	-263	-298	-200	0	-141	-495
2003	-606	1675	-72	-145	-108	38	-116	-171	-49	-250	-133	148
Average	**-201**	**-125**	**-254**	**-158**	**-185**	**-48**	**-206**	**-196**	**-145**	**-249**	**-208**	**-225**

TABLE C4-10:
CHANGES IN BANKS + JONES EXPORTS (CFS), 2030 LOD

(D) Alternative 4

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	-168	-151	348	-148	0	4	0	0	146	0	0	0
1923	-6	0	166	0	3	0	0	0	16	0	-524	351
1924	1	1	54	1	0	0	0	0	125	-199	0	249
1925	52	199	2	-180	0	0	0	0	188	-249	0	-1556
1926	-176	860	1	2	0	1	0	0	41	-18	-41	-137
1927	-14	0	0	0	100	38	0	0	200	0	0	-195
1928	-2	38	-318	0	115	0	0	0	146	-106	-82	4
1929	20	136	0	-4	0	29	0	0	0	-28	-1	-18
1930	-11	-57	0	0	200	38	0	0	79	-19	0	0
1931	38	149	127	144	0	0	0	0	54	-109	0	0
1932	-1	24	0	0	-3	47	0	0	0	-458	544	0
1933	54	0	-4	2	0	0	0	0	-10	1690	-130	-92
1934	129	132	-568	0	0	32	0	0	51	-236	223	-151
1935	49	-172	-20	-3	-5	38	0	0	200	255	-128	396
1936	776	913	-5	2	53	38	0	0	200	-258	-35	-9
1937	306	6	-45	125	-101	-702	-19	0	-25	-57	-24	91
1938	3	0	0	0	-19	-391	0	0	0	0	0	0
1939	-70	8	0	-10	0	0	0	0	146	0	-121	122
1940	33	72	87	128	0	38	0	0	200	-20	0	0
1941	39	-11	267	0	0	0	0	0	116	0	0	0
1942	-4	0	0	-1	0	0	0	0	131	0	0	0
1943	-1	-1	0	0	0	0	0	0	18	0	0	0
1944	-71	-43	0	-2	0	12	0	0	200	-116	0	70
1945	-82	0	0	-3	0	1	0	0	200	0	-223	-13
1946	115	0	82	0	129	38	0	0	200	0	88	91
1947	-3	-157	3	107	0	0	0	0	200	32	-13	277
1948	54	115	460	0	-4	0	0	0	160	8	-32	6
1949	0	0	-3	0	0	0	0	0	146	0	0	0
1950	-197	-210	224	0	0	38	0	0	200	10	1	0
1951	0	0	0	-87	4	0	0	0	146	16	0	0
1952	-2	-7	0	0	14	0	0	0	135	0	0	0
1953	-2	-1	0	0	4	0	0	0	137	0	0	-65
1954	-1	0	-55	0	0	0	0	0	146	73	77	0
1955	-139	107	-66	0	-766	-79	0	0	154	-185	-2415	-31
1956	-4	-1324	-1	203	495	0	0	0	200	0	0	0
1957	-174	0	1	0	0	0	0	0	200	-8	-86	0
1958	61	-4	2	3	0	0	0	0	79	0	0	0
1959	-2	-3	-2	2	0	11	0	0	200	0	2	-91
1960	5	0	30	102	0	0	0	0	200	0	-189	-171
1961	343	-1915	4338	0	0	38	157	0	1371	0	0	0
1962	-149	0	-43	0	0	0	0	0	200	0	0	-201
1963	0	0	0	-54	0	0	0	0	129	0	-27	14
1964	-54	-646	20	0	-1	-1	0	0	151	-137	-9	4
1965	17	0	20	0	164	38	0	0	200	0	0	0
1966	1	0	136	0	0	0	0	0	154	0	-43	-229
1967	-7	0	0	0	164	38	0	0	0	0	0	0
1968	-1	-70	0	-4	0	15	0	0	200	0	-7	14
1969	-8	-3	0	0	-96	0	0	0	0	0	0	0
1970	-1	-2	0	0	0	0	0	0	141	88	0	-206
1971	35	0	-3	0	4	4	0	0	133	-58	-6	0
1972	-3	-4	0	0	0	0	0	0	179	0	55	33
1973	-2	0	0	0	0	38	0	0	200	0	0	-143
1974	12	0	171	0	3	0	0	0	134	0	0	0
1975	-1	0	0	1	0	0	0	0	160	0	0	0
1976	0	-7	68	0	2	0	0	0	0	1	0	0
1977	438	-334	-147	42	-156	-21	0	0	0	52	485	0
1978	-358	37	107	0	0	0	0	0	200	0	0	0
1979	-14	-41	10	0	38	0	0	0	146	0	158	19
1980	15	0	0	0	-125	0	0	0	19	0	0	0
1981	-8	-1	0	-6	93	0	0	0	154	0	0	-185
1982	-15	0	0	0	129	-52	0	0	200	0	0	0
1983	0	0	9	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	142	5	0	0
1985	-31	0	-32	0	0	3	0	0	146	0	0	0
1986	43	1	0	0	0	-78	4	0	0	0	-76	-71
1987	-170	299	-67	-1	0	0	0	0	200	-173	60	-1
1988	-8	33	0	0	-1	-2	0	0	0	1	2	309
1989	349	-134	44	0	4	0	0	0	147	-99	53	394
1990	-1	1	163	0	2	0	-12	0	13	14	-550	0
1991	-69	0	3	0	0	0	0	0	41	359	77	0
1992	-109	236	-650	735	0	0	0	0	120	-1445	-21	-87
1993	-131	0	-43	0	0	38	0	0	200	0	0	0
1994	-14	-4	0	1	62	38	0	0	200	0	-169	-4
1995	29	728	-940	0	0	0	0	0	146	0	0	0
1996	-60	-44	-200	0	0	0	0	0	131	0	0	0
1997	0	2	0	0	0	0	0	0	141	32	0	0
1998	7	-11	7	0	0	0	0	0	0	0	0	0
1999	-2	0	-5	0	4	0	0	0	137	0	0	-168
2000	1	0	0	-3	0	16	0	0	125	17	0	0
2001	1	0	0	-4	0	34	0	0	200	-114	0	33
2002	86	30	-9	0	200	38	0	0	200	0	0	-319
2003	-445	889	119	0	136	38	0	0	200	0	0	54
Average	**4**	**-4**	**47**	**13**	**10**	**-7**	**2**	**0**	**140**	**-18**	**-38**	**-20**

TABLE C4-11:
CHANGES IN CCWD + LV DIVERSIONS (CFS), 2030 LOD

(A) Alternative 1

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	408	176	131	205	261	-119	624	414	254	415	401	360
1923	398	400	378	398	254	-127	532	191	193	305	27	24
1924	60	118	189	140	61	-99	134	-63	-23	-52	0	0
1925	0	40	58	63	93	0	338	357	143	128	-5	173
1926	39	43	68	74	97	0	88	185	200	28	100	0
1927	0	43	248	118	83	-38	430	464	200	400	182	553
1928	397	396	374	171	118	-115	502	310	254	413	317	360
1929	394	400	369	133	94	-210	289	97	0	93	-3	148
1930	157	175	146	-19	53	-185	301	135	57	128	15	184
1931	60	43	68	74	61	0	5	-38	40	0	0	0
1932	0	40	58	90	63	0	262	96	101	199	38	125
1933	-6	43	68	74	110	0	83	140	0	129	-5	67
1934	-5	40	58	63	50	0	42	0	-37	129	-6	183
1935	37	40	59	66	180	-38	478	485	200	139	81	7
1936	-3	62	83	107	56	-52	627	480	200	139	50	22
1937	121	136	178	20	113	-19	651	445	161	400	181	-1
1938	133	193	394	234	236	-103	698	464	265	415	400	400
1939	400	238	326	214	319	-111	513	148	151	3	141	178
1940	129	43	68	1	33	-38	448	442	200	400	133	172
1941	466	359	334	294	309	-107	598	413	285	418	401	367
1942	400	231	399	418	307	-114	565	385	268	418	401	401
1943	375	390	343	232	332	-114	625	321	265	418	320	367
1944	401	226	400	193	127	-158	471	199	124	264	0	142
1945	153	140	211	124	81	-38	529	445	200	139	43	14
1946	-3	62	83	369	258	-165	509	415	200	213	1	88
1947	134	145	185	107	75	-147	316	0	200	62	147	155
1948	0	43	68	74	95	0	245	384	128	400	39	-44
1949	0	62	83	107	90	-110	298	245	254	207	112	134
1950	0	43	68	74	111	-38	283	401	-74	139	56	-11
1951	-3	62	278	470	308	-119	616	466	254	324	317	360
1952	388	400	375	381	314	-114	624	415	265	652	399	399
1953	400	238	359	392	153	-114	371	159	93	399	320	367
1954	299	286	253	141	97	-115	378	215	248	322	317	360
1955	351	332	286	145	93	-147	392	119	118	264	98	147
1956	164	171	202	163	189	-85	546	464	200	400	400	284
1957	400	233	400	199	142	-115	450	242	-75	283	317	361
1958	335	83	151	138	299	-98	552	413	321	418	401	401
1959	401	238	400	205	158	-138	445	197	41	300	36	78
1960	139	159	192	25	-10	-147	336	178	46	6	138	121
1961	0	43	68	134	88	-38	374	234	200	33	84	0
1962	0	43	68	74	90	0	276	390	-68	139	11	-44
1963	-1	470	45	373	236	-114	452	320	203	418	320	401
1964	339	446	170	162	210	-147	307	158	162	261	126	175
1965	185	178	234	284	95	-152	673	464	200	476	320	367
1966	401	400	400	205	301	-127	404	131	221	301	0	128
1967	176	168	200	144	228	-152	698	464	200	472	445	367
1968	400	239	351	207	152	-142	432	168	32	301	4	106
1969	164	156	136	298	280	-152	763	620	200	400	364	399
1970	399	239	354	691	339	-114	457	266	191	411	320	399
1971	379	354	199	363	277	-117	362	177	193	383	320	367
1972	292	141	675	151	238	-127	418	180	117	302	1	136
1973	160	153	195	149	287	-153	563	453	200	400	178	360
1974	378	678	182	366	317	-114	624	275	198	417	320	401
1975	390	216	395	171	297	-114	615	246	240	418	401	367
1976	364	201	340	181	124	-171	385	217	48	123	152	2
1977	-5	40	58	63	26	0	0	0	0	0	0	0
1978	0	40	58	77	63	0	546	466	200	400	133	172
1979	434	541	401	212	110	-127	693	414	254	298	0	71
1980	133	130	354	154	205	-125	710	414	254	415	401	360
1981	401	400	229	202	195	-147	483	249	218	49	136	177
1982	117	141	271	251	167	-152	822	464	161	377	400	636
1983	670	674	366	708	405	-63	822	415	275	330	411	407
1984	404	396	345	450	400	-114	606	277	190	408	320	367
1985	384	676	325	227	130	-150	579	0	152	61	123	161
1986	158	143	198	93	96	-99	670	464	132	400	135	281
1987	320	187	326	167	113	-147	288	116	63	239	60	122
1988	160	179	205	125	23	-181	132	47	163	69	-117	-52
1989	-5	40	58	63	52	0	177	238	254	29	98	0
1990	0	43	68	74	77	0	27	89	-20	7	0	0
1991	0	40	58	0	48	0	48	77	0	0	0	0
1992	0	40	58	63	51	0	46	117	-109	182	56	106
1993	0	40	58	113	272	-38	197	95	200	400	133	172
1994	510	596	275	176	121	-219	344	164	125	130	190	165
1995	15	42	59	144	295	-90	546	464	193	470	470	179
1996	502	351	360	408	164	-111	692	409	201	414	320	367
1997	394	349	369	684	343	-114	468	320	190	413	320	367
1998	399	352	353	245	195	-116	664	408	221	652	654	658
1999	398	670	359	392	315	-114	585	266	195	407	320	397
2000	358	180	335	168	260	-131	527	235	95	407	317	360
2001	364	356	316	162	105	-181	439	124	78	113	82	97
2002	151	164	174	127	-113	-185	624	304	200	6	163	-1
2003	-6	43	72	145	108	-38	315	372	48	144	179	360
Average	**217**	**214**	**226**	**197**	**166**	**-98**	**440**	**276**	**151**	**267**	**183**	**211**

TABLE C4-11:
CHANGES IN CCWD + LV DIVERSIONS (CFS), 2030 LOD

(B) Alternative 2

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	408	176	131	205	261	-119	624	414	254	415	401	360
1923	398	400	378	398	254	-127	532	191	193	305	27	24
1924	60	118	189	140	61	-99	134	-63	-23	-52	0	0
1925	0	40	58	63	93	0	338	357	143	128	-5	173
1926	39	43	68	74	97	0	88	185	200	28	100	0
1927	0	43	248	118	83	-38	430	464	200	400	182	553
1928	397	396	374	171	118	-115	502	310	254	413	317	360
1929	394	400	369	133	94	-210	289	97	0	93	-3	148
1930	157	175	146	-19	53	-185	301	135	57	128	15	184
1931	60	43	68	74	61	0	5	-38	40	0	0	0
1932	0	40	58	90	63	0	262	96	101	199	38	125
1933	-6	43	68	74	110	0	83	140	0	129	-5	67
1934	-5	40	58	63	50	0	42	0	-37	129	-6	183
1935	37	40	59	66	180	-38	478	485	200	139	81	7
1936	-3	62	83	107	98	-52	628	480	200	139	50	22
1937	121	136	178	20	132	-19	626	445	161	400	181	-1
1938	133	193	394	234	279	-103	698	464	265	415	400	400
1939	400	238	259	214	319	-111	513	148	151	3	141	178
1940	129	43	68	1	33	-38	449	442	200	400	133	172
1941	466	362	334	294	352	-107	598	413	285	418	401	367
1942	400	231	399	399	307	-114	566	385	268	418	401	401
1943	375	390	343	232	332	-114	625	321	265	418	320	367
1944	401	226	400	193	127	-158	471	199	124	264	0	142
1945	153	140	211	122	79	-38	532	445	200	139	43	14
1946	-3	62	83	367	256	-165	506	414	200	213	1	88
1947	134	145	185	102	75	-147	317	0	200	62	147	155
1948	0	43	68	74	95	0	245	384	90	400	39	-44
1949	0	62	83	107	90	-110	299	246	254	207	112	134
1950	0	43	68	74	111	-38	283	401	-74	139	56	-11
1951	-3	62	278	470	308	-119	616	466	254	324	317	360
1952	388	400	375	381	314	-114	624	415	265	652	399	399
1953	400	155	268	347	153	-114	373	160	93	401	320	367
1954	300	286	254	141	97	-115	379	215	248	322	317	360
1955	351	332	286	145	93	-147	392	119	118	264	98	147
1956	164	171	202	163	189	-88	546	464	200	400	400	284
1957	400	233	400	199	142	-115	450	242	-75	283	317	361
1958	335	83	151	138	299	-98	552	413	321	418	401	401
1959	401	238	400	205	158	-138	445	197	41	300	36	78
1960	139	159	192	25	-10	-147	336	178	46	6	138	121
1961	0	43	68	134	88	-38	374	234	200	33	84	0
1962	0	43	68	74	90	0	276	390	-68	139	11	-44
1963	-1	470	45	373	236	-114	452	322	256	418	320	401
1964	339	400	170	162	210	-147	307	158	162	261	126	175
1965	185	178	234	284	95	-152	673	464	200	476	320	367
1966	401	400	400	205	301	-127	404	131	221	301	0	128
1967	176	168	200	144	228	-152	698	464	200	472	447	367
1968	400	239	259	207	152	-142	432	169	32	301	4	106
1969	164	156	136	298	316	-152	763	620	200	400	366	399
1970	399	239	263	691	339	-114	458	267	89	413	320	400
1971	380	162	201	363	277	-117	366	179	193	387	320	367
1972	293	141	675	150	238	-127	422	180	193	302	1	136
1973	160	153	192	149	287	-153	563	453	200	400	178	360
1974	378	678	182	347	317	-114	626	275	266	418	320	401
1975	390	216	400	171	298	-114	617	246	240	418	401	367
1976	364	201	340	181	123	-171	385	217	48	123	152	2
1977	-5	40	58	63	26	0	0	0	0	0	0	0
1978	0	40	58	77	63	0	546	466	200	400	133	172
1979	434	541	401	212	110	-127	693	414	254	298	0	71
1980	133	130	354	154	205	-125	713	414	254	415	401	360
1981	401	400	229	202	195	-147	483	248	218	49	136	177
1982	117	141	271	251	167	-152	822	464	30	377	400	415
1983	670	674	274	708	436	-63	822	670	275	330	419	407
1984	404	396	254	542	400	-114	606	277	89	408	320	367
1985	384	676	260	227	130	-150	580	0	84	61	123	156
1986	110	143	198	95	96	-100	654	464	94	400	135	304
1987	321	187	400	169	114	-147	288	116	63	239	60	122
1988	160	179	205	125	23	-181	132	47	163	69	-117	-52
1989	-5	40	58	63	52	0	177	238	254	29	98	0
1990	0	43	68	74	77	0	27	89	-20	7	0	0
1991	0	40	58	0	48	0	48	77	0	0	0	0
1992	0	40	58	63	51	0	46	117	-109	182	56	106
1993	0	40	58	113	272	-38	197	95	200	400	133	172
1994	510	596	275	176	121	-219	344	164	125	130	190	165
1995	15	42	59	144	295	-90	546	464	159	470	470	179
1996	502	354	268	363	161	-111	697	410	100	417	320	367
1997	395	376	399	684	392	-114	470	322	89	416	320	367
1998	400	340	400	245	195	-116	669	409	221	652	654	658
1999	399	670	268	347	315	-114	586	267	94	409	320	398
2000	358	180	335	167	260	-131	531	237	30	411	317	360
2001	365	357	316	161	105	-181	439	124	78	113	82	97
2002	151	164	174	127	-17	-185	624	302	200	5	163	-1
2003	-6	43	72	145	108	-38	315	371	49	144	179	360
Average	**217**	**210**	**218**	**196**	**171**	**-98**	**440**	**279**	**143**	**268**	**183**	**209**

TABLE C4-11:
CHANGES IN CCWD + LV DIVERSIONS (CFS), 2030 LOD

(D) Alternative 4

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1922	168	151	-3	148	36	-119	313	200	-146	179	76	3
1923	1	-1	-2	-1	-3	-127	217	76	-153	7	1	-2
1924	-1	-1	-1	-1	-22	-99	144	-49	-148	-224	-243	-206
1925	-52	-7	-3	0	-4	0	157	200	-200	0	-2	-11
1926	-146	-28	0	-2	0	0	0	0	-146	28	100	0
1927	0	0	0	0	-100	-38	184	200	-200	0	46	188
1928	200	197	202	-111	7	-115	313	164	-146	19	4	3
1929	2	-1	-1	4	0	-210	233	0	0	0	3	13
1930	10	9	6	-71	-208	-185	215	0	-200	0	17	19
1931	-126	-128	-132	-144	-83	0	5	-19	20	0	0	0
1932	0	0	0	0	0	0	163	-31	0	0	0	-35
1933	-86	0	0	-2	0	0	0	0	0	0	-1	65
1934	-62	0	0	0	-2	0	42	0	-200	0	1	107
1935	37	0	1	3	0	-38	146	200	-200	0	0	-91
1936	-10	0	0	-2	0	-49	240	200	-200	0	0	-6
1937	-7	-5	-30	-124	-18	-19	213	200	-200	0	21	0
1938	1	1	0	0	-85	-103	298	200	-135	182	184	188
1939	48	1	0	10	12	-111	364	0	-146	5	28	23
1940	-14	-71	-100	-128	-46	-153	146	200	-200	0	0	0
1941	93	139	-3	-2	-53	-107	247	15	-115	24	4	3
1942	1	0	-1	-2	0	-114	224	15	-132	24	4	3
1943	2	0	-1	-2	0	-114	226	17	-135	24	4	3
1944	2	1	0	2	0	-158	361	38	-200	-24	1	6
1945	6	5	3	3	4	-165	146	200	-200	0	0	-38
1946	-116	-122	-82	0	-129	-165	330	200	-200	73	0	4
1947	3	3	-18	-107	-49	-147	148	0	-200	0	10	-14
1948	-181	-115	-33	0	0	0	46	200	-160	0	0	-42
1949	0	0	0	0	0	-110	124	0	-146	0	-7	88
1950	0	0	0	0	0	-38	146	200	-200	0	0	-108
1951	0	0	0	0	-92	-119	313	200	-146	179	184	188
1952	195	83	-2	-2	-44	-114	269	17	-135	23	4	3
1953	2	0	-2	0	-4	-114	235	16	-137	23	4	3
1954	2	0	0	0	0	-115	245	16	-146	19	4	3
1955	2	0	-1	-1	0	-147	215	0	-153	30	2	2
1956	2	2	2	1	-194	-152	146	200	-200	0	0	105
1957	168	1	0	0	0	-115	313	40	-200	-20	4	3
1958	1	1	0	-3	-2	-98	152	15	-79	23	4	3
1959	2	1	0	-2	0	-138	330	26	-200	2	4	-5
1960	-5	-3	-3	-102	-80	-147	215	0	-200	0	-2	-57
1961	-188	-116	-159	-109	0	-38	229	6	-200	0	3	0
1962	0	0	0	0	0	0	146	200	-200	0	0	-108
1963	-1	0	0	54	9	-114	298	200	-129	182	184	188
1964	88	-1	0	-1	1	-147	215	0	-151	20	18	15
1965	14	14	-20	0	-164	-152	298	200	-200	65	4	3
1966	2	-1	-1	0	0	-127	282	0	-154	19	0	2
1967	2	-8	-60	0	-164	-152	298	200	-200	2	89	3
1968	2	0	0	4	0	-142	330	24	-200	3	0	7
1969	6	5	-36	-15	-17	-152	240	200	-200	0	-16	3
1970	1	2	-3	-3	0	-114	234	17	-141	23	4	3
1971	2	-2	-1	0	-4	-117	235	15	-133	24	4	3
1972	2	0	-1	0	0	-127	307	0	-179	20	0	1
1973	1	-42	-81	0	0	-153	286	200	-200	0	10	3
1974	1	-1	-1	-1	-3	-114	228	17	-134	23	4	3
1975	1	1	-1	-1	0	-114	251	17	-160	24	4	3
1976	0	2	0	0	-2	-171	233	0	0	1	2	-161
1977	-179	-141	-95	-156	-166	-61	0	-52	0	0	0	0
1978	0	0	0	0	0	0	146	200	-200	0	0	0
1979	34	201	200	-36	-160	-127	330	200	-146	159	1	10
1980	10	7	0	0	-90	-125	313	186	-146	20	4	3
1981	2	1	0	6	-93	-147	361	64	-153	0	15	13
1982	15	12	0	0	-129	-152	298	125	-200	-14	4	2
1983	0	-1	-1	-2	-2	-63	161	16	-125	24	4	3
1984	2	-2	-2	0	0	-114	234	17	-142	24	4	3
1985	1	-2	0	0	0	-150	268	0	-146	0	4	4
1986	4	4	3	-64	0	-152	146	200	-200	0	0	0
1987	113	11	0	1	1	-147	215	0	-200	0	9	9
1988	8	6	5	5	0	-181	83	-29	0	0	-210	-218
1989	-191	-54	-35	0	0	0	0	0	-146	0	126	0
1990	0	0	0	0	0	0	27	0	-20	7	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	13	-200	0	53	106
1993	0	0	0	9	0	-38	0	77	-200	0	0	0
1994	130	200	182	-1	-1	-219	233	0	-200	8	6	7
1995	-117	-64	0	0	0	-90	146	200	-146	0	0	0
1996	102	197	209	-59	-86	-111	298	200	-131	182	87	3
1997	1	-1	-2	-3	-4	-114	239	16	-141	23	4	3
1998	1	-1	-1	-2	5	-116	271	10	-179	24	4	3
1999	2	0	-2	0	-4	-114	235	16	-137	23	4	3
2000	2	0	1	3	1	-131	309	15	-200	21	4	3
2001	0	2	0	4	0	-181	361	0	-200	0	13	13
2002	11	10	9	0	-200	-185	361	3	-200	4	18	-169
2003	-140	-105	-119	0	-136	-138	199	200	-200	0	46	188
Average	**-1**	**3**	**-3**	**-12**	**-31**	**-104**	**209**	**75**	**-151**	**18**	**12**	**4**

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
10/31/1921	12	0	250	420	0	250	420	0	250	70	110	250
11/30/1921	0	0	181	106	0	250	106	0	250	70	12	250
12/31/1921	0	0	119	0	0	250	0	0	250	0	0	116
01/31/1922	0	131	0	205	131	0	205	131	0	148	131	0
02/28/1922	0	86	0	236	110	0	236	110	0	0	122	0
03/31/1922	4	115	0	0	0	0	0	0	0	0	0	0
04/30/1922	0	0	0	420	167	37	420	167	37	146	167	0
05/31/1922	0	0	204	368	0	250	368	0	250	70	84	250
06/30/1922	146	296	0	400	296	0	400	296	0	0	296	0
07/31/1922	21	326	0	420	326	16	420	326	16	200	326	0
08/31/1922	16	337	0	417	337	0	417	337	0	92	337	0
09/30/1922	60	0	250	420	0	250	420	0	250	63	0	250
10/31/1922	6	255	0	404	255	0	404	255	0	7	255	0
11/30/1922	0	178	0	397	181	0	397	181	0	0	177	0
12/31/1922	0	150	0	364	165	0	364	165	0	0	148	0
01/31/1923	0	128	0	396	131	0	396	131	0	0	128	0
02/28/1923	3	122	0	256	122	0	256	122	0	0	122	0
03/31/1923	0	127	0	0	0	0	0	0	0	0	0	0
04/30/1923	0	0	0	348	184	0	348	184	0	33	184	0
05/31/1923	0	0	225	166	0	250	166	0	250	0	52	250
06/30/1923	153	296	0	346	296	0	346	296	0	0	296	0
07/31/1923	70	45	250	420	0	250	420	0	250	70	52	250
08/31/1923	70	30	250	126	0	250	126	0	250	70	31	250
09/30/1923	0	0	226	0	0	250	0	0	250	0	0	224
10/31/1923	0	0	190	0	0	250	0	0	250	0	0	188
11/30/1923	0	0	132	0	0	250	0	0	250	0	0	131
12/31/1923	0	0	61	0	0	250	0	0	250	0	0	60
01/31/1924	0	0	29	0	0	169	0	0	169	0	0	28
02/29/1924	0	60	0	0	34	88	0	34	88	0	38	0
03/31/1924	0	99	0	0	0	0	0	0	0	0	0	0
04/30/1924	0	0	0	0	134	0	0	134	0	0	144	0
05/31/1924	0	186	0	0	123	0	0	123	0	0	136	0
06/30/1924	0	23	250	0	0	250	0	0	250	0	0	125
07/31/1924	70	21	250	38	0	250	38	0	250	0	0	117
08/31/1924	70	11	250	81	0	250	81	0	250	0	0	88
09/30/1924	52	0	250	52	0	250	52	0	250	0	0	96
10/31/1924	5	0	250	5	0	250	5	0	250	0	0	203
11/30/1924	0	0	210	0	0	250	0	0	250	0	0	203

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1924	0	0	192	0	0	250	0	0	250	0	0	189
01/31/1925	0	0	187	0	0	250	0	0	250	0	0	187
02/28/1925	0	206	0	93	206	0	93	206	0	0	202	0
03/31/1925	0	147	0	0	147	0	0	147	0	0	147	0
04/30/1925	204	0	0	328	215	0	328	215	0	146	215	0
05/31/1925	0	261	0	107	261	250	107	261	250	0	261	200
06/30/1925	200	306	0	343	306	0	343	306	0	0	306	0
07/31/1925	70	222	250	420	0	250	420	0	250	70	222	250
08/31/1925	8	0	250	3	0	250	3	0	250	5	0	250
09/30/1925	0	0	77	0	0	250	0	0	250	0	0	66
10/31/1925	0	0	211	0	0	250	0	0	250	0	0	65
11/30/1925	0	0	207	0	0	250	0	0	250	0	0	179
12/31/1925	0	0	182	0	0	250	0	0	250	0	0	182
01/31/1926	0	0	176	0	0	250	0	0	250	0	0	174
02/28/1926	0	169	0	97	169	0	97	169	0	0	169	0
03/31/1926	0	147	0	0	147	0	0	147	0	0	147	0
04/30/1926	215	0	0	303	0	0	303	0	0	215	0	0
05/31/1926	0	261	0	0	261	185	0	261	185	0	261	0
06/30/1926	146	306	0	346	306	0	346	306	0	0	306	0
07/31/1926	43	0	250	72	0	250	72	0	250	70	2	250
08/31/1926	0	0	232	82	0	250	82	0	250	70	12	250
09/30/1926	51	0	250	51	0	250	51	0	250	51	0	250
10/31/1926	6	0	250	6	0	250	6	0	250	6	0	250
11/30/1926	0	0	207	0	0	250	0	0	250	0	0	207
12/31/1926	0	182	0	0	182	248	0	182	248	0	182	0
01/31/1927	200	176	0	318	176	0	318	176	0	200	176	0
02/28/1927	200	173	0	283	173	0	283	173	0	100	173	0
03/31/1927	38	114	0	0	114	0	0	114	0	0	114	0
04/30/1927	114	0	0	392	152	0	392	152	0	146	152	0
05/31/1927	0	0	206	420	0	250	420	0	250	70	86	250
06/30/1927	200	273	0	400	273	0	400	273	0	0	273	0
07/31/1927	200	322	0	420	322	180	420	322	180	200	322	0
08/31/1927	70	168	250	420	0	250	420	0	250	70	215	250
09/30/1927	12	291	0	420	291	145	420	291	145	200	291	0
10/31/1927	0	247	0	397	247	0	397	247	0	200	247	0
11/30/1927	3	166	0	399	166	0	399	166	0	200	166	0
12/31/1927	0	116	0	371	119	0	371	119	0	200	119	0
01/31/1928	0	111	0	170	112	0	170	112	0	0	0	0
02/29/1928	0	124	0	118	124	0	118	124	0	7	124	0
03/31/1928	0	115	0	0	0	0	0	0	0	0	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1928	0	0	0	335	167	0	335	167	0	146	167	0
05/31/1928	0	204	0	310	204	0	310	204	0	164	204	0
06/30/1928	146	296	0	400	296	0	400	296	0	0	296	0
07/31/1928	0	98	250	400	112	250	400	112	250	0	117	250
08/31/1928	70	33	250	420	0	250	420	0	250	70	37	250
09/30/1928	60	0	250	420	0	250	420	0	250	63	0	250
10/31/1928	7	255	0	401	255	0	401	255	0	9	255	0
11/30/1928	0	178	0	398	181	0	398	181	0	0	178	0
12/31/1928	0	0	161	280	0	250	280	0	250	0	142	18
01/31/1929	0	0	56	0	0	189	0	0	189	0	0	60
02/28/1929	0	122	0	94	122	0	94	122	0	0	122	0
03/31/1929	29	181	0	0	0	0	0	0	0	0	0	0
04/30/1929	0	0	0	57	233	0	57	233	0	0	233	0
05/31/1929	0	284	0	97	284	0	97	284	0	0	284	0
06/30/1929	0	326	0	0	326	0	0	326	0	0	326	0
07/31/1929	70	208	250	371	0	250	371	0	250	70	208	250
08/31/1929	3	0	250	0	0	250	0	0	250	6	0	250
09/30/1929	0	0	102	0	0	250	0	0	250	0	0	115
10/31/1929	0	0	66	0	0	223	0	0	223	0	0	76
11/30/1929	0	0	55	0	0	230	0	0	230	0	0	64
12/31/1929	0	0	33	0	0	179	0	0	179	0	0	39
01/31/1930	0	160	0	73	68	0	73	68	0	0	89	0
02/28/1930	200	206	0	253	206	0	253	206	0	0	198	0
03/31/1930	38	147	0	0	0	0	0	0	0	0	0	0
04/30/1930	0	0	0	86	215	0	86	215	0	0	215	0
05/31/1930	0	261	0	135	261	0	135	261	0	0	261	0
06/30/1930	200	306	0	257	306	0	257	306	0	0	306	0
07/31/1930	70	222	250	420	0	250	420	0	250	70	222	250
08/31/1930	0	0	235	0	0	250	0	0	250	1	0	250
09/30/1930	0	0	66	0	0	250	0	0	250	0	0	85
10/31/1930	0	0	190	0	0	250	0	0	250	0	0	64
11/30/1930	0	0	207	0	0	250	0	0	250	0	0	79
12/31/1930	0	0	182	0	0	250	0	0	250	0	0	50
01/31/1931	0	0	176	0	0	250	0	0	250	0	0	32
02/28/1931	0	173	0	61	173	0	61	173	0	0	90	0
03/31/1931	0	181	0	0	181	0	0	181	0	0	181	0
04/30/1931	0	227	0	0	233	0	0	233	0	0	233	0
05/31/1931	0	284	0	0	246	0	0	246	0	0	266	0
06/30/1931	36	0	250	76	0	250	76	0	250	0	74	232
07/31/1931	70	21	250	91	0	250	91	0	250	70	21	250

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1931	70	11	250	81	0	250	81	0	250	70	11	250
09/30/1931	52	0	250	52	0	250	52	0	250	52	0	250
10/31/1931	5	0	250	5	0	250	5	0	250	5	0	250
11/30/1931	0	0	210	0	0	250	0	0	250	0	0	210
12/31/1931	0	0	192	0	0	250	0	0	250	0	0	192
01/31/1932	0	187	0	90	187	0	90	187	0	0	187	0
02/29/1932	0	199	0	63	199	0	63	199	0	0	199	0
03/31/1932	0	147	0	0	147	0	0	147	0	0	147	0
04/30/1932	191	0	0	238	215	0	238	215	0	140	215	0
05/31/1932	0	261	0	0	216	141	0	216	141	0	230	0
06/30/1932	0	306	0	101	306	0	101	306	0	0	306	0
07/31/1932	200	342	0	399	342	0	399	342	0	200	342	0
08/31/1932	70	31	250	139	0	250	139	0	250	70	31	250
09/30/1932	0	0	125	0	0	250	0	0	250	0	0	90
10/31/1932	6	0	250	0	0	250	0	0	250	0	0	170
11/30/1932	0	0	207	0	0	250	0	0	250	0	0	207
12/31/1932	0	0	182	0	0	250	0	0	250	0	0	182
01/31/1933	0	0	176	0	0	250	0	0	250	0	0	174
02/28/1933	0	173	0	110	173	0	110	173	0	0	173	0
03/31/1933	0	181	0	0	181	0	0	181	0	0	181	0
04/30/1933	0	233	0	83	233	0	83	233	0	0	233	0
05/31/1933	0	284	0	140	284	0	140	284	0	0	284	0
06/30/1933	0	326	0	0	326	0	0	326	0	0	326	0
07/31/1933	70	221	250	420	0	250	420	0	250	70	221	250
08/31/1933	5	0	250	0	0	250	0	0	250	4	0	250
09/30/1933	0	0	183	0	0	250	0	0	250	0	0	248
10/31/1933	5	0	250	0	0	250	0	0	250	0	0	193
11/30/1933	0	0	210	0	0	250	0	0	250	0	0	210
12/31/1933	0	0	192	0	0	250	0	0	250	0	0	192
01/31/1934	0	0	187	0	0	250	0	0	250	0	0	187
02/28/1934	0	206	0	51	206	0	51	206	0	0	204	0
03/31/1934	0	181	0	0	181	0	0	181	0	0	181	0
04/30/1934	0	191	0	0	233	0	0	233	0	0	233	0
05/31/1934	0	284	0	0	284	0	0	284	0	0	284	0
06/30/1934	200	326	0	163	326	0	163	326	0	0	326	0
07/31/1934	70	221	250	420	0	250	420	0	250	70	221	250
08/31/1934	9	0	250	3	0	250	3	0	250	11	0	250
09/30/1934	0	0	67	0	0	250	0	0	250	0	0	174
10/31/1934	0	0	218	5	0	250	5	0	250	5	0	250
11/30/1934	0	0	210	0	0	250	0	0	250	0	0	210

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1934	0	0	191	0	0	250	0	0	250	0	0	192
01/31/1935	0	0	184	0	0	250	0	0	250	0	0	187
02/28/1935	0	206	0	180	206	0	180	206	0	0	206	0
03/31/1935	38	127	0	0	127	0	0	127	0	0	127	0
04/30/1935	184	0	0	420	184	58	420	184	58	146	184	0
05/31/1935	0	225	0	235	225	250	235	225	250	0	225	200
06/30/1935	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1935	70	211	250	420	0	250	420	0	250	70	211	250
08/31/1935	70	61	250	212	0	250	212	0	250	70	61	250
09/30/1935	0	0	243	0	0	250	0	0	250	0	0	152
10/31/1935	3	0	250	0	0	250	0	0	250	0	0	243
11/30/1935	0	0	188	0	0	250	0	0	250	0	0	188
12/31/1935	0	0	167	0	0	250	0	0	250	0	0	167
01/31/1936	0	0	143	0	0	250	0	0	250	0	0	141
02/29/1936	0	128	0	54	131	0	96	131	0	0	128	0
03/31/1936	38	127	0	0	113	0	0	113	0	0	117	0
04/30/1936	0	0	90	283	184	250	283	184	250	0	184	146
05/31/1936	0	225	0	230	225	250	230	225	250	0	225	200
06/30/1936	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1936	70	211	250	420	0	250	420	0	250	70	211	250
08/31/1936	70	48	250	168	0	250	168	0	250	70	48	250
09/30/1936	0	0	228	0	0	250	0	0	250	0	0	222
10/31/1936	0	0	129	0	0	250	0	0	250	0	0	122
11/30/1936	0	0	114	0	0	250	0	0	250	0	0	109
12/31/1936	0	0	72	0	0	250	0	0	250	0	0	42
01/31/1937	0	0	140	0	0	160	0	0	160	0	0	15
02/28/1937	0	0	118	0	0	231	0	0	250	0	0	99
03/31/1937	0	127	0	0	108	0	0	108	0	0	108	0
04/30/1937	0	0	117	334	184	250	309	184	250	0	184	146
05/31/1937	0	0	225	420	0	250	420	0	250	70	105	250
06/30/1937	200	296	0	361	296	0	361	296	0	0	296	0
07/31/1937	200	331	0	420	331	180	420	331	180	200	331	0
08/31/1937	70	169	250	420	0	250	420	0	250	70	190	250
09/30/1937	14	0	250	13	0	250	13	0	250	14	0	250
10/31/1937	0	0	117	0	0	250	0	0	250	0	0	119
11/30/1937	0	0	57	0	0	250	0	0	250	0	0	58
12/31/1937	0	167	0	394	167	0	394	167	0	0	167	0
01/31/1938	200	143	0	420	143	14	420	143	14	200	143	0
02/28/1938	221	0	0	359	97	0	402	97	0	38	97	0
03/31/1938	103	0	0	0	0	0	0	0	0	0	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1938	0	0	0	296	152	250	296	152	250	0	152	146
05/31/1938	206	0	0	420	0	250	420	0	250	250	86	70
06/30/1938	135	273	0	400	273	0	400	273	0	0	273	0
07/31/1938	18	322	0	420	322	13	420	322	13	200	322	0
08/31/1938	16	335	0	416	335	0	416	335	0	200	335	0
09/30/1938	12	291	0	412	291	0	412	291	0	200	291	0
10/31/1938	5	247	0	405	247	0	405	247	0	54	247	0
11/30/1938	2	166	0	240	166	0	240	166	0	3	166	0
12/31/1938	0	0	119	76	119	250	9	119	250	0	119	0
01/31/1939	0	0	36	0	0	250	0	0	250	0	0	46
02/28/1939	0	48	0	310	57	0	310	57	0	0	60	0
03/31/1939	0	111	0	0	0	0	0	0	0	0	0	0
04/30/1939	0	0	0	420	0	93	420	0	93	250	44	70
05/31/1939	11	0	250	159	0	250	159	0	250	11	0	250
06/30/1939	146	306	0	297	306	0	297	306	0	0	306	0
07/31/1939	33	0	250	36	0	250	36	0	250	39	0	250
08/31/1939	0	0	109	0	0	250	0	0	250	0	0	137
09/30/1939	0	0	72	0	0	250	0	0	250	0	0	96
10/31/1939	0	0	121	0	0	250	0	0	250	0	0	107
11/30/1939	0	0	207	0	0	250	0	0	250	0	0	136
12/31/1939	0	0	182	0	0	250	0	0	250	0	0	82
01/31/1940	0	0	171	0	0	172	0	0	172	0	0	43
02/29/1940	0	157	0	79	111	0	79	111	0	0	111	0
03/31/1940	38	115	0	0	115	0	0	115	0	0	0	0
04/30/1940	0	0	167	198	167	250	199	167	250	0	167	146
05/31/1940	0	0	204	242	154	250	242	154	250	0	154	250
06/30/1940	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1940	200	326	0	420	326	180	420	326	180	200	326	0
08/31/1940	70	217	250	420	0	250	420	0	250	70	217	250
09/30/1940	70	178	250	420	0	250	420	0	250	70	178	250
10/31/1940	107	255	0	420	255	153	420	255	153	200	255	0
11/30/1940	2	181	0	361	181	0	364	181	0	141	181	0
12/31/1940	0	138	0	306	165	0	307	165	0	0	135	0
01/31/1941	0	107	0	271	131	0	271	131	0	0	106	0
02/28/1941	0	97	0	299	106	0	342	106	0	0	44	0
03/31/1941	0	107	0	0	0	0	0	0	0	0	0	0
04/30/1941	0	0	0	196	152	250	197	152	250	0	152	96
05/31/1941	0	0	206	369	0	250	369	0	250	0	0	221
06/30/1941	115	273	0	400	273	0	400	273	0	0	273	0
07/31/1941	18	322	0	420	322	16	420	322	16	41	322	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1941	16	335	0	417	335	0	417	335	0	20	335	0
09/30/1941	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1941	5	247	0	406	247	0	406	247	0	7	247	0
11/30/1941	0	166	0	231	166	0	231	166	0	0	166	0
12/31/1941	0	104	0	384	119	0	384	119	0	0	103	0
01/31/1942	0	77	0	383	112	0	365	112	0	0	76	0
02/28/1942	0	121	0	299	129	0	299	129	0	0	121	0
03/31/1942	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1942	0	0	0	414	152	0	414	152	0	72	152	0
05/31/1942	0	0	206	341	0	250	341	0	250	0	0	221
06/30/1942	132	273	0	400	273	0	400	273	0	0	273	0
07/31/1942	18	322	0	420	322	16	420	322	16	41	322	0
08/31/1942	16	335	0	417	335	0	417	335	0	20	335	0
09/30/1942	12	291	0	413	291	0	413	291	0	15	291	0
10/31/1942	6	247	0	382	247	0	382	247	0	8	247	0
11/30/1942	0	164	0	388	166	0	388	166	0	0	163	0
12/31/1942	0	116	0	341	119	0	341	119	0	0	116	0
01/31/1943	0	87	0	208	112	0	208	112	0	0	86	0
02/28/1943	0	129	0	332	129	0	332	129	0	0	129	0
03/31/1943	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1943	0	0	0	223	152	250	223	152	250	0	152	75
05/31/1943	0	0	206	277	0	250	277	0	250	0	0	223
06/30/1943	135	273	0	400	273	0	400	273	0	0	273	0
07/31/1943	18	322	0	420	322	16	420	322	16	41	322	0
08/31/1943	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1943	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1943	7	247	0	407	247	0	407	247	0	8	247	0
11/30/1943	2	166	0	228	166	0	228	166	0	3	166	0
12/31/1943	0	0	117	149	119	250	149	119	250	0	117	0
01/31/1944	0	0	46	0	0	239	0	0	239	0	0	48
02/29/1944	0	124	0	127	124	0	127	124	0	0	124	0
03/31/1944	12	147	0	0	0	0	0	0	0	0	0	0
04/30/1944	0	0	0	256	215	0	256	215	0	146	215	0
05/31/1944	11	0	250	210	0	250	210	0	250	49	0	250
06/30/1944	200	306	0	324	306	0	324	306	0	0	306	0
07/31/1944	70	86	250	420	0	250	420	0	250	70	62	250
08/31/1944	2	0	250	2	0	250	2	0	250	4	0	250
09/30/1944	0	0	108	0	0	250	0	0	250	0	0	114
10/31/1944	0	0	97	0	0	250	0	0	250	0	0	103
11/30/1944	0	0	110	0	0	250	0	0	250	0	0	115

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1944	0	0	39	0	0	250	0	0	250	0	0	42
01/31/1945	0	0	37	0	0	161	0	0	160	0	0	40
02/28/1945	0	109	0	81	110	0	79	110	0	0	113	0
03/31/1945	38	127	0	0	127	0	0	127	0	0	0	0
04/30/1945	0	0	184	279	184	250	282	184	250	0	184	146
05/31/1945	0	0	225	420	0	250	420	0	250	70	105	250
06/30/1945	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1945	70	211	250	420	0	250	420	0	250	70	211	250
08/31/1945	70	44	250	157	0	250	157	0	250	70	44	250
09/30/1945	0	0	236	0	0	250	0	0	250	0	0	198
10/31/1945	3	0	250	0	0	250	0	0	250	0	0	138
11/30/1945	0	0	188	0	0	250	0	0	250	0	0	66
12/31/1945	0	0	167	0	0	250	0	0	250	0	0	85
01/31/1946	200	143	0	420	143	149	420	143	147	200	143	0
02/28/1946	129	136	0	387	136	0	384	136	0	0	136	0
03/31/1946	38	127	0	0	0	0	0	0	0	0	0	0
04/30/1946	0	0	0	325	184	0	322	184	0	146	184	0
05/31/1946	0	0	225	391	0	250	389	0	250	70	105	250
06/30/1946	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1946	70	137	250	420	0	250	420	0	250	70	211	250
08/31/1946	70	3	250	73	0	250	73	0	250	70	3	250
09/30/1946	0	0	162	0	0	250	0	0	250	0	0	165
10/31/1946	0	0	116	0	0	250	0	0	250	0	0	120
11/30/1946	0	0	105	0	0	250	0	0	250	0	0	108
12/31/1946	0	0	65	0	0	250	0	0	250	0	0	47
01/31/1947	0	0	143	0	0	250	0	0	245	0	0	36
02/28/1947	0	136	0	130	81	0	130	81	0	0	87	0
03/31/1947	0	147	0	0	0	0	0	0	0	0	0	0
04/30/1947	0	0	0	177	139	0	178	139	0	0	148	0
05/31/1947	0	261	0	0	261	0	0	261	0	0	261	0
06/30/1947	200	306	0	400	306	0	400	306	0	0	306	0
07/31/1947	70	55	250	186	0	250	186	0	250	70	55	250
08/31/1947	0	0	103	0	0	250	0	0	250	0	0	114
09/30/1947	0	0	95	0	0	250	0	0	250	0	0	81
10/31/1947	6	0	250	6	0	250	6	0	250	0	0	75
11/30/1947	0	0	207	0	0	250	0	0	250	0	0	92
12/31/1947	0	0	182	0	0	250	0	0	250	0	0	148
01/31/1948	0	0	176	0	0	250	0	0	250	0	0	176
02/29/1948	0	167	0	0	167	95	0	167	95	0	167	0
03/31/1948	0	127	0	0	127	0	0	127	0	0	127	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1948	184	0	0	245	184	0	245	184	0	46	184	0
05/31/1948	0	225	0	134	225	250	134	225	250	0	225	200
06/30/1948	160	296	0	288	296	0	250	296	0	0	296	0
07/31/1948	0	281	250	400	281	250	400	281	250	0	281	250
08/31/1948	70	41	250	150	0	250	150	0	250	70	41	250
09/30/1948	44	0	250	0	0	250	0	0	250	2	0	250
10/31/1948	3	0	250	3	0	250	3	0	250	3	0	250
11/30/1948	0	0	188	0	0	250	0	0	250	0	0	188
12/31/1948	0	0	167	0	0	250	0	0	250	0	0	167
01/31/1949	0	0	143	0	0	250	0	0	250	0	0	143
02/28/1949	0	136	0	0	136	90	0	136	90	0	136	0
03/31/1949	0	110	0	0	0	0	0	0	0	0	0	0
04/30/1949	0	0	0	188	110	0	189	110	0	0	124	0
05/31/1949	0	261	0	245	261	0	246	261	0	0	261	0
06/30/1949	146	306	0	400	306	0	400	306	0	0	306	0
07/31/1949	70	143	250	420	0	250	420	0	250	70	143	250
08/31/1949	0	0	138	0	0	250	0	0	250	0	0	130
09/30/1949	0	0	116	0	0	250	0	0	250	0	0	205
10/31/1949	6	0	250	6	0	250	6	0	250	6	0	250
11/30/1949	0	0	207	0	0	250	0	0	250	0	0	207
12/31/1949	0	0	182	0	0	250	0	0	250	0	0	182
01/31/1950	0	0	176	0	0	250	0	0	250	0	0	176
02/28/1950	0	173	0	111	173	0	111	173	0	0	173	0
03/31/1950	38	127	0	0	127	0	0	127	0	0	127	0
04/30/1950	0	184	0	283	184	0	283	184	0	146	184	0
05/31/1950	0	225	0	401	225	0	401	225	0	200	225	0
06/30/1950	200	296	0	126	296	0	126	296	0	0	296	0
07/31/1950	70	211	250	420	0	250	420	0	250	70	211	250
08/31/1950	70	52	250	178	0	250	178	0	250	70	52	250
09/30/1950	11	0	250	0	0	250	0	0	250	0	0	153
10/31/1950	3	0	250	0	0	250	0	0	250	3	0	250
11/30/1950	0	0	188	0	0	250	0	0	250	0	0	188
12/31/1950	200	167	0	420	167	58	420	167	58	200	167	0
01/31/1951	200	143	0	420	143	250	420	143	250	200	143	0
02/28/1951	92	136	0	400	136	0	400	136	0	0	136	0
03/31/1951	4	115	0	0	0	0	0	0	0	0	0	0
04/30/1951	0	0	0	420	167	28	420	167	28	146	167	0
05/31/1951	0	0	204	420	0	250	420	0	250	70	84	250
06/30/1951	146	296	0	400	296	0	400	296	0	0	296	0
07/31/1951	70	26	250	420	0	250	420	0	250	70	206	250

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1951	70	33	250	420	0	250	420	0	250	70	217	250
09/30/1951	60	0	250	420	0	250	420	0	250	70	178	250
10/31/1951	5	255	0	394	255	0	394	255	0	200	255	0
11/30/1951	0	179	0	399	181	0	399	181	0	82	181	0
12/31/1951	0	157	0	367	165	0	367	165	0	0	155	0
01/31/1952	0	117	0	366	131	0	366	131	0	0	114	0
02/29/1952	0	118	0	314	118	0	314	118	0	0	74	0
03/31/1952	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1952	0	0	0	420	152	52	420	152	52	117	152	0
05/31/1952	0	0	206	370	0	250	370	0	250	0	0	223
06/30/1952	135	273	0	400	273	0	400	273	0	0	273	0
07/31/1952	18	322	0	420	322	250	420	322	250	41	322	0
08/31/1952	16	335	0	415	335	0	415	335	0	20	335	0
09/30/1952	12	291	0	411	291	0	411	291	0	15	291	0
10/31/1952	7	247	0	407	247	0	407	247	0	9	247	0
11/30/1952	0	166	0	238	166	0	155	166	0	0	166	0
12/31/1952	0	110	0	351	119	0	259	119	0	0	108	0
01/31/1953	0	110	0	391	112	0	345	112	0	0	110	0
02/28/1953	4	129	0	157	129	0	157	129	0	0	129	0
03/31/1953	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1953	0	0	0	220	152	0	222	152	0	83	152	0
05/31/1953	0	0	206	115	0	250	116	0	250	0	0	222
06/30/1953	137	273	0	230	273	0	230	273	0	0	273	0
07/31/1953	18	322	0	417	322	0	419	322	0	40	322	0
08/31/1953	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1953	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1953	7	247	0	306	247	0	307	247	0	9	247	0
11/30/1953	0	166	0	286	166	0	286	166	0	0	166	0
12/31/1953	2	119	0	255	119	0	255	119	0	2	119	0
01/31/1954	0	110	0	139	112	0	139	112	0	0	110	0
02/28/1954	0	129	0	97	129	0	97	129	0	0	129	0
03/31/1954	0	115	0	0	0	0	0	0	0	0	0	0
04/30/1954	0	0	0	211	167	0	212	167	0	78	167	0
05/31/1954	0	204	0	0	204	215	0	204	215	0	204	16
06/30/1954	146	296	0	394	296	0	394	296	0	0	296	0
07/31/1954	70	28	250	420	0	250	420	0	250	70	47	250
08/31/1954	70	33	250	420	0	250	420	0	250	70	37	250
09/30/1954	60	0	250	420	0	250	420	0	250	63	0	250
10/31/1954	7	255	0	358	255	0	358	255	0	9	255	0
11/30/1954	180	0	0	420	0	92	420	0	92	180	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1954	0	160	0	281	165	0	281	165	0	0	159	0
01/31/1955	0	127	0	141	131	0	141	131	0	0	126	0
02/28/1955	0	122	0	93	122	0	93	122	0	0	122	0
03/31/1955	0	147	0	0	0	0	0	0	0	0	0	0
04/30/1955	0	0	0	177	215	0	177	215	0	0	215	0
05/31/1955	0	261	0	0	261	119	0	261	119	0	261	0
06/30/1955	153	306	0	271	306	0	271	306	0	0	306	0
07/31/1955	70	86	250	420	0	250	420	0	250	70	116	250
08/31/1955	0	0	152	0	0	250	0	0	250	0	0	154
09/30/1955	0	0	103	0	0	250	0	0	250	0	0	105
10/31/1955	0	0	86	0	0	250	0	0	250	0	0	88
11/30/1955	0	0	79	0	0	250	0	0	250	0	0	82
12/31/1955	0	0	48	0	0	250	0	0	250	0	0	50
01/31/1956	0	0	87	0	0	250	0	0	250	0	0	88
02/29/1956	0	167	200	139	167	250	139	167	250	0	166	7
03/31/1956	38	114	0	0	67	0	0	64	0	0	0	0
04/30/1956	0	0	152	296	152	250	296	152	250	0	152	146
05/31/1956	0	0	206	420	0	250	420	0	250	70	86	250
06/30/1956	200	273	0	400	273	0	400	273	0	0	273	0
07/31/1956	200	322	0	420	322	180	420	322	180	200	322	0
08/31/1956	200	335	0	420	335	180	420	335	180	200	335	0
09/30/1956	70	66	250	420	0	250	420	0	250	70	171	250
10/31/1956	6	247	0	406	247	0	406	247	0	173	247	0
11/30/1956	3	166	0	236	166	0	236	166	0	4	166	0
12/31/1956	120	0	0	401	119	0	401	119	0	2	119	0
01/31/1957	0	0	51	0	0	250	0	0	250	0	0	50
02/28/1957	0	88	0	149	81	0	149	81	0	0	88	0
03/31/1957	0	115	0	0	0	0	0	0	0	0	0	0
04/30/1957	0	0	0	283	167	0	283	167	0	146	167	0
05/31/1957	0	0	204	197	0	250	196	0	250	0	0	244
06/30/1957	200	296	0	125	296	0	125	296	0	0	296	0
07/31/1957	70	67	250	420	0	250	420	0	250	70	47	250
08/31/1957	70	33	250	420	0	250	420	0	250	70	37	250
09/30/1957	59	0	250	420	0	250	420	0	250	62	0	250
10/31/1957	10	0	250	344	0	250	344	0	250	11	0	250
11/30/1957	0	0	183	16	0	250	16	0	250	0	0	184
12/31/1957	0	152	0	0	148	154	0	148	154	0	151	0
01/31/1958	3	131	0	141	131	0	141	131	0	0	131	0
02/28/1958	0	89	0	266	122	0	266	122	0	0	87	0
03/31/1958	0	98	0	0	0	0	0	0	0	0	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1958	0	0	0	401	152	0	401	152	0	1	152	0
05/31/1958	0	0	206	369	0	250	369	0	250	0	0	221
06/30/1958	79	273	0	400	273	0	400	273	0	0	273	0
07/31/1958	18	322	0	420	322	16	420	322	16	41	322	0
08/31/1958	16	335	0	417	335	0	417	335	0	19	335	0
09/30/1958	12	291	0	413	291	0	413	291	0	15	291	0
10/31/1958	7	247	0	408	247	0	408	247	0	9	247	0
11/30/1958	3	166	0	242	166	0	242	166	0	4	166	0
12/31/1958	0	0	119	150	119	250	150	119	250	0	119	0
01/31/1959	0	0	45	0	0	250	0	0	250	0	0	42
02/28/1959	0	129	0	158	129	0	158	129	0	0	129	0
03/31/1959	11	127	0	0	0	0	0	0	0	0	0	0
04/30/1959	0	0	0	261	184	0	261	184	0	146	184	0
05/31/1959	0	225	0	197	225	0	197	225	0	26	225	0
06/30/1959	200	296	0	241	296	0	241	296	0	0	296	0
07/31/1959	70	50	250	420	0	250	420	0	250	70	52	250
08/31/1959	70	30	250	136	0	250	136	0	250	70	34	250
09/30/1959	0	0	172	0	0	250	0	0	250	0	0	166
10/31/1959	0	0	111	0	0	250	0	0	250	0	0	106
11/30/1959	0	0	91	0	0	250	0	0	250	0	0	88
12/31/1959	0	0	58	0	0	250	0	0	250	0	0	55
01/31/1960	0	0	132	0	0	157	0	0	158	0	0	30
02/29/1960	0	126	0	76	40	0	76	40	0	0	46	0
03/31/1960	0	147	0	0	0	0	0	0	0	0	0	0
04/30/1960	0	0	0	121	215	0	121	215	0	0	215	0
05/31/1960	0	261	0	178	261	0	178	261	0	0	261	0
06/30/1960	200	306	0	246	306	0	246	306	0	0	306	0
07/31/1960	70	13	250	89	0	250	89	0	250	70	13	250
08/31/1960	0	0	112	0	0	250	0	0	250	0	0	110
09/30/1960	0	0	129	0	0	250	0	0	250	0	0	73
10/31/1960	6	0	250	6	0	250	6	0	250	0	0	68
11/30/1960	0	0	207	0	0	250	0	0	250	0	0	92
12/31/1960	0	0	182	0	0	250	0	0	250	0	0	23
01/31/1961	0	176	0	134	176	0	134	176	0	0	66	0
02/28/1961	0	173	0	88	173	0	88	173	0	0	173	0
03/31/1961	38	147	0	0	147	0	0	147	0	0	147	0
04/30/1961	0	132	0	292	215	0	292	215	0	146	215	0
05/31/1961	0	261	0	234	261	0	234	261	0	6	261	0
06/30/1961	200	306	0	400	306	0	400	306	0	0	306	0
07/31/1961	70	36	250	139	0	250	139	0	250	70	36	250

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1961	0	0	166	0	0	250	0	0	250	0	0	169
09/30/1961	51	0	250	51	0	250	51	0	250	51	0	250
10/31/1961	6	0	250	6	0	250	6	0	250	6	0	250
11/30/1961	0	0	207	0	0	250	0	0	250	0	0	207
12/31/1961	0	0	182	0	0	250	0	0	250	0	0	182
01/31/1962	0	0	176	0	0	250	0	0	250	0	0	176
02/28/1962	0	168	0	0	168	90	0	168	90	0	168	0
03/31/1962	0	127	0	0	127	0	0	127	0	0	127	0
04/30/1962	184	0	0	276	184	0	276	184	0	146	184	0
05/31/1962	0	0	225	190	175	250	190	175	250	0	175	250
06/30/1962	200	296	0	132	296	0	132	296	0	0	296	0
07/31/1962	70	211	250	420	0	250	420	0	250	70	211	250
08/31/1962	70	16	250	97	0	250	97	0	250	70	16	250
09/30/1962	44	0	250	0	0	250	0	0	250	0	0	185
10/31/1962	3	0	250	3	0	250	3	0	250	3	0	250
11/30/1962	200	188	0	420	188	250	420	188	250	200	188	0
12/31/1962	70	23	250	138	0	250	138	0	250	70	23	250
01/31/1963	146	143	0	420	143	98	420	143	98	200	143	0
02/28/1963	0	127	0	227	136	0	227	136	0	0	136	0
03/31/1963	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1963	0	0	0	301	152	0	301	152	0	146	152	0
05/31/1963	0	0	206	276	0	250	278	0	250	70	86	250
06/30/1963	129	273	0	332	273	0	385	273	0	0	273	0
07/31/1963	18	322	0	420	322	15	420	322	16	200	322	0
08/31/1963	70	30	250	420	0	250	420	0	250	70	215	250
09/30/1963	12	291	0	412	291	0	412	291	0	200	291	0
10/31/1963	5	247	0	344	247	0	344	247	0	94	247	0
11/30/1963	0	163	0	420	166	24	397	166	0	0	163	0
12/31/1963	1	119	0	171	119	0	171	119	0	2	119	0
01/31/1964	0	109	0	158	112	0	158	112	0	0	108	0
02/29/1964	4	124	0	214	124	0	214	124	0	5	124	0
03/31/1964	0	147	0	0	0	0	0	0	0	0	0	0
04/30/1964	0	0	0	92	215	0	92	215	0	0	215	0
05/31/1964	0	261	0	158	261	0	158	261	0	0	261	0
06/30/1964	151	306	0	313	306	0	313	306	0	0	306	0
07/31/1964	70	89	250	420	0	250	420	0	250	70	108	250
08/31/1964	0	0	124	0	0	250	0	0	250	0	0	142
09/30/1964	0	0	75	0	0	250	0	0	250	0	0	90
10/31/1964	0	0	65	0	0	250	0	0	250	0	0	80
11/30/1964	0	0	72	0	0	250	0	0	250	0	0	86

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1964	200	182	0	420	182	14	420	182	14	180	182	0
01/31/1965	200	176	0	420	176	64	420	176	64	200	176	0
02/28/1965	164	173	0	259	173	0	259	173	0	0	173	0
03/31/1965	38	114	0	0	0	0	0	0	0	0	0	0
04/30/1965	0	0	0	420	152	102	420	152	102	146	152	0
05/31/1965	0	0	206	420	0	250	420	0	250	70	86	250
06/30/1965	200	273	0	400	273	0	400	273	0	0	273	0
07/31/1965	124	322	0	420	322	180	420	322	180	189	322	0
08/31/1965	70	30	250	420	0	250	420	0	250	70	33	250
09/30/1965	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1965	7	247	0	408	247	0	408	247	0	9	247	0
11/30/1965	0	162	0	396	166	0	396	166	0	0	161	0
12/31/1965	0	113	0	394	119	0	394	119	0	0	112	0
01/31/1966	0	111	0	203	112	0	203	112	0	0	110	0
02/28/1966	0	129	0	301	129	0	301	129	0	0	129	0
03/31/1966	0	127	0	0	0	0	0	0	0	0	0	0
04/30/1966	0	0	0	219	184	0	219	184	0	98	184	0
05/31/1966	0	225	0	0	225	131	0	225	131	0	225	0
06/30/1966	154	296	0	375	296	0	374	296	0	0	296	0
07/31/1966	70	49	250	420	0	250	420	0	250	70	68	250
08/31/1966	70	2	250	73	0	250	73	0	250	70	2	250
09/30/1966	0	0	122	0	0	250	0	0	250	0	0	124
10/31/1966	0	0	74	0	0	250	0	0	250	0	0	76
11/30/1966	0	0	82	0	0	250	0	0	250	0	0	74
12/31/1966	0	164	0	22	92	250	22	91	250	0	103	0
01/31/1967	0	143	0	144	143	0	144	143	0	0	143	0
02/28/1967	164	136	0	392	136	0	392	136	0	0	136	0
03/31/1967	38	114	0	0	0	0	0	0	0	0	0	0
04/30/1967	0	0	0	420	152	126	420	152	126	146	152	0
05/31/1967	0	0	206	420	0	250	420	0	250	70	86	250
06/30/1967	200	273	0	400	273	0	400	273	0	0	273	0
07/31/1967	198	322	0	420	322	250	420	322	250	200	322	0
08/31/1967	16	335	0	420	335	40	420	335	43	105	335	0
09/30/1967	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1967	7	247	0	407	247	0	407	247	0	9	247	0
11/30/1967	0	166	0	239	166	0	239	166	0	0	166	0
12/31/1967	0	0	119	101	119	250	9	119	250	0	119	0
01/31/1968	0	0	43	0	0	250	0	0	250	0	0	46
02/29/1968	0	124	0	152	124	0	152	124	0	0	124	0
03/31/1968	15	127	0	0	0	0	0	0	0	0	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1968	0	0	0	248	184	0	248	184	0	146	184	0
05/31/1968	0	0	225	143	0	250	144	0	250	0	0	249
06/30/1968	200	296	0	232	296	0	232	296	0	0	296	0
07/31/1968	70	49	250	420	0	250	420	0	250	70	52	250
08/31/1968	70	9	250	83	0	250	83	0	250	70	9	250
09/30/1968	0	0	144	0	0	250	0	0	250	0	0	151
10/31/1968	0	0	86	0	0	250	0	0	250	0	0	92
11/30/1968	0	0	94	0	0	250	0	0	250	0	0	99
12/31/1968	0	0	114	0	0	250	0	0	250	0	0	79
01/31/1969	0	116	0	314	100	0	314	100	0	0	101	0
02/28/1969	104	0	0	384	0	0	420	0	0	88	0	0
03/31/1969	38	114	0	0	0	0	0	0	0	0	0	0
04/30/1969	58	0	0	420	152	250	420	152	250	146	152	0
05/31/1969	0	0	206	420	156	250	420	156	250	70	86	250
06/30/1969	70	153	250	150	273	250	150	273	250	0	273	0
07/31/1969	200	322	0	420	322	180	420	322	180	200	322	0
08/31/1969	155	335	0	420	335	99	420	335	100	139	335	0
09/30/1969	12	291	0	411	291	0	411	291	0	15	291	0
10/31/1969	5	247	0	404	247	0	404	247	0	6	247	0
11/30/1969	0	166	0	239	166	0	239	166	0	2	166	0
12/31/1969	0	115	0	351	119	0	259	119	0	0	112	0
01/31/1970	0	91	0	420	112	250	420	112	250	0	89	0
02/28/1970	0	129	0	339	129	0	339	129	0	0	129	0
03/31/1970	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1970	0	0	0	55	152	250	56	152	250	0	152	82
05/31/1970	0	206	0	16	206	250	17	206	250	0	206	17
06/30/1970	141	273	0	332	273	0	230	273	0	0	273	0
07/31/1970	0	90	250	400	101	250	400	103	250	0	113	250
08/31/1970	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1970	0	53	250	400	51	250	400	52	250	0	55	250
10/31/1970	6	247	0	385	247	0	386	247	0	8	247	0
11/30/1970	0	159	0	347	166	0	155	166	0	0	157	0
12/31/1970	0	106	0	187	119	0	189	119	0	0	105	0
01/31/1971	0	112	0	363	112	0	363	112	0	0	112	0
02/28/1971	4	129	0	281	129	0	281	129	0	0	129	0
03/31/1971	4	114	0	0	0	0	0	0	0	0	0	0
04/30/1971	0	0	0	210	152	0	214	152	0	84	152	0
05/31/1971	0	0	206	133	0	250	135	0	250	0	0	220
06/30/1971	133	273	0	326	273	0	326	273	0	0	273	0
07/31/1971	18	322	0	400	322	0	405	322	0	41	322	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1971	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1971	53	0	250	420	0	250	420	0	250	55	0	250
10/31/1971	7	247	0	299	247	0	300	247	0	9	247	0
11/30/1971	2	166	0	143	166	0	143	166	0	2	166	0
12/31/1971	113	0	0	420	119	250	420	119	250	0	112	0
01/31/1972	0	0	89	0	0	240	0	0	239	0	0	90
02/29/1972	0	124	0	238	124	0	238	124	0	0	124	0
03/31/1972	0	127	0	0	0	0	0	0	0	0	0	0
04/30/1972	0	0	0	233	184	0	238	184	0	123	184	0
05/31/1972	0	225	0	180	225	0	180	225	0	0	225	0
06/30/1972	179	296	0	297	296	0	372	296	0	0	296	0
07/31/1972	70	48	250	420	0	250	420	0	250	70	68	250
08/31/1972	42	0	250	43	0	250	43	0	250	42	0	250
09/30/1972	0	0	114	0	0	250	0	0	250	0	0	115
10/31/1972	0	0	90	0	0	250	0	0	250	0	0	92
11/30/1972	0	0	97	0	0	250	0	0	250	0	0	55
12/31/1972	0	166	0	21	89	250	22	87	250	0	85	0
01/31/1973	0	143	0	149	143	0	149	143	0	0	143	0
02/28/1973	0	136	0	287	136	0	287	136	0	0	136	0
03/31/1973	38	115	0	0	0	0	0	0	0	0	0	0
04/30/1973	27	0	0	420	167	3	420	167	3	146	167	0
05/31/1973	0	0	204	407	0	250	407	0	250	70	84	250
06/30/1973	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1973	200	326	0	420	326	180	420	326	180	200	326	0
08/31/1973	70	172	250	420	0	250	420	0	250	70	182	250
09/30/1973	60	0	250	420	0	250	420	0	250	62	0	250
10/31/1973	4	255	0	382	255	0	382	255	0	5	255	0
11/30/1973	0	172	0	420	181	250	420	181	250	0	171	0
12/31/1973	0	156	0	174	165	0	174	165	0	0	155	0
01/31/1974	0	129	0	363	131	0	345	131	0	0	128	0
02/28/1974	3	122	0	320	122	0	320	122	0	0	122	0
03/31/1974	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1974	0	0	0	222	152	250	224	152	250	0	152	77
05/31/1974	0	0	206	231	0	250	231	0	250	0	0	223
06/30/1974	134	273	0	332	273	0	400	273	0	0	273	0
07/31/1974	17	322	0	420	322	14	420	322	14	40	322	0
08/31/1974	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1974	12	291	0	413	291	0	413	291	0	15	291	0
10/31/1974	6	247	0	395	247	0	395	247	0	7	247	0
11/30/1974	2	166	0	219	166	0	219	166	0	3	166	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1974	0	116	0	392	119	0	397	119	0	0	115	0
01/31/1975	0	0	79	0	0	250	0	0	250	0	0	78
02/28/1975	0	129	0	297	129	0	298	129	0	0	129	0
03/31/1975	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1975	0	0	0	213	152	250	215	152	250	0	152	99
05/31/1975	0	0	206	201	0	250	202	0	250	0	0	223
06/30/1975	160	273	0	400	273	0	400	273	0	0	273	0
07/31/1975	17	322	0	420	322	16	420	322	16	41	322	0
08/31/1975	0	100	250	400	101	250	400	101	250	0	103	250
09/30/1975	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1975	0	247	0	364	247	0	364	247	0	0	247	0
11/30/1975	6	166	0	207	166	0	207	166	0	8	166	0
12/31/1975	1	119	0	341	119	0	341	119	0	2	119	0
01/31/1976	0	0	113	44	0	250	44	0	250	0	0	114
02/29/1976	0	0	74	0	0	199	0	0	197	0	0	72
03/31/1976	0	171	0	0	0	0	0	0	0	0	0	0
04/30/1976	0	0	0	152	233	0	152	233	0	0	233	0
05/31/1976	0	284	0	0	284	217	0	284	217	0	284	0
06/30/1976	0	0	202	0	0	250	0	0	250	0	0	202
07/31/1976	0	0	127	0	0	250	0	0	250	0	0	128
08/31/1976	0	0	98	0	0	250	0	0	250	0	0	100
09/30/1976	0	0	248	0	0	250	0	0	250	0	0	87
10/31/1976	5	0	250	0	0	250	0	0	250	0	0	76
11/30/1976	0	0	210	0	0	250	0	0	250	0	0	69
12/31/1976	0	0	192	0	0	250	0	0	250	0	0	97
01/31/1977	0	0	187	0	0	250	0	0	250	0	0	31
02/28/1977	0	206	0	0	206	26	0	206	26	0	40	0
03/31/1977	0	129	0	0	129	0	0	129	0	0	67	0
04/30/1977	0	233	0	0	233	0	0	233	0	0	233	0
05/31/1977	0	284	0	0	284	0	0	284	0	0	232	0
06/30/1977	70	6	250	76	0	250	76	0	250	70	6	250
07/31/1977	70	21	250	91	0	250	91	0	250	70	21	250
08/31/1977	70	11	250	81	0	250	81	0	250	70	11	250
09/30/1977	52	0	250	52	0	250	52	0	250	52	0	250
10/31/1977	5	0	250	5	0	250	5	0	250	5	0	250
11/30/1977	0	0	210	0	0	250	0	0	250	0	0	210
12/31/1977	0	0	192	0	0	250	0	0	250	0	0	192
01/31/1978	0	187	0	77	187	0	77	187	0	0	187	0
02/28/1978	0	206	0	63	206	0	63	206	0	0	206	0
03/31/1978	0	115	0	0	115	0	0	115	0	0	115	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1978	167	0	0	420	167	126	420	167	126	146	167	0
05/31/1978	0	0	204	420	0	250	420	0	250	70	84	250
06/30/1978	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1978	200	326	0	420	326	180	420	326	180	200	326	0
08/31/1978	70	217	250	420	0	250	420	0	250	70	217	250
09/30/1978	70	178	250	420	0	250	420	0	250	70	178	250
10/31/1978	166	255	0	420	255	180	420	255	180	200	255	0
11/30/1978	0	180	0	420	181	120	420	181	120	200	181	0
12/31/1978	0	0	165	151	165	250	151	165	250	0	165	200
01/31/1979	0	77	0	0	79	210	0	79	210	0	41	0
02/28/1979	38	122	0	147	122	0	147	122	0	0	0	0
03/31/1979	0	127	0	0	0	0	0	0	0	0	0	0
04/30/1979	0	0	0	259	184	250	259	184	250	0	184	146
05/31/1979	0	0	225	390	0	250	390	0	250	70	105	250
06/30/1979	146	296	0	400	296	0	400	296	0	0	296	0
07/31/1979	70	52	250	420	0	250	420	0	250	70	211	250
08/31/1979	69	0	250	69	0	250	69	0	250	70	0	250
09/30/1979	0	0	179	0	0	250	0	0	250	0	0	189
10/31/1979	0	0	117	0	0	250	0	0	250	0	0	127
11/30/1979	0	0	120	0	0	250	0	0	250	0	0	127
12/31/1979	70	47	250	420	51	250	420	51	250	70	47	250
01/31/1980	0	143	0	154	143	0	154	143	0	0	143	0
02/29/1980	0	0	228	183	0	250	183	0	250	0	0	138
03/31/1980	0	0	125	0	0	0	0	0	0	0	0	0
04/30/1980	0	0	0	293	167	250	296	167	250	0	167	146
05/31/1980	0	0	204	368	0	250	368	0	250	70	70	250
06/30/1980	146	296	0	400	296	0	400	296	0	0	296	0
07/31/1980	20	326	0	420	326	15	420	326	15	41	326	0
08/31/1980	16	337	0	417	337	0	417	337	0	20	337	0
09/30/1980	60	0	250	420	0	250	420	0	250	63	0	250
10/31/1980	7	255	0	408	255	0	408	255	0	9	255	0
11/30/1980	3	181	0	404	181	0	404	181	0	4	181	0
12/31/1980	0	0	163	142	0	250	142	0	250	0	38	125
01/31/1981	0	0	37	0	0	239	0	0	239	0	0	43
02/28/1981	93	122	0	288	122	0	288	122	0	0	122	0
03/31/1981	0	147	0	0	0	0	0	0	0	0	0	0
04/30/1981	0	0	0	268	215	0	268	215	0	146	215	0
05/31/1981	0	261	0	249	261	0	248	261	0	64	261	0
06/30/1981	153	306	0	371	306	0	371	306	0	0	306	0
07/31/1981	70	47	250	167	0	250	167	0	250	70	47	250

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1981	0	0	114	0	0	250	0	0	250	0	0	129
09/30/1981	0	0	73	0	0	250	0	0	250	0	0	86
10/31/1981	0	0	133	0	0	250	0	0	250	0	0	148
11/30/1981	0	0	109	0	0	250	0	0	250	0	0	121
12/31/1981	200	182	0	420	182	51	420	182	51	200	182	0
01/31/1982	200	176	0	420	176	31	420	176	31	200	176	0
02/28/1982	129	173	0	295	173	0	295	173	0	0	173	0
03/31/1982	38	114	0	0	0	0	0	0	0	0	0	0
04/30/1982	0	0	0	420	152	250	420	152	250	146	152	0
05/31/1982	0	0	206	420	0	250	420	0	250	70	11	250
06/30/1982	200	273	0	361	273	0	230	273	0	0	273	0
07/31/1982	55	322	0	420	322	12	420	322	12	41	322	0
08/31/1982	16	335	0	415	335	0	416	335	0	20	335	0
09/30/1982	9	291	0	420	291	225	420	291	4	11	291	0
10/31/1982	0	247	0	420	247	250	420	247	250	0	247	0
11/30/1982	0	162	0	420	166	250	420	166	250	0	161	0
12/31/1982	0	0	104	101	119	250	9	119	250	0	103	0
01/31/1983	74	0	0	420	112	250	420	112	250	0	72	0
02/28/1983	93	0	0	400	98	0	400	129	0	0	91	0
03/31/1983	63	0	0	0	0	0	0	0	0	0	0	0
04/30/1983	0	0	0	420	152	250	420	152	250	0	152	10
05/31/1983	0	0	206	165	206	250	420	206	250	0	0	222
06/30/1983	0	273	125	150	273	250	150	273	250	0	273	0
07/31/1983	250	20	70	420	0	250	420	0	250	250	43	70
08/31/1983	0	335	16	176	335	250	185	335	250	0	335	19
09/30/1983	11	291	0	418	291	0	418	291	0	13	291	0
10/31/1983	6	247	0	411	247	0	411	247	0	8	247	0
11/30/1983	0	0	159	305	0	250	305	0	250	0	0	158
12/31/1983	0	0	110	101	105	250	9	105	250	0	108	0
01/31/1984	0	112	1	202	112	250	293	112	250	0	112	2
02/29/1984	0	124	0	150	124	250	150	124	250	0	124	0
03/31/1984	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1984	0	0	0	420	152	34	420	152	34	83	152	0
05/31/1984	0	0	206	232	0	250	232	0	250	0	0	223
06/30/1984	142	273	0	332	273	0	230	273	0	0	273	0
07/31/1984	0	90	250	400	97	250	400	97	250	0	113	250
08/31/1984	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1984	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1984	4	247	0	388	247	0	389	247	0	5	247	0
11/30/1984	0	159	0	420	166	250	420	166	250	0	158	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1984	0	118	0	326	117	0	259	119	0	0	117	0
01/31/1985	0	112	0	227	112	0	227	112	0	0	112	0
02/28/1985	0	129	0	130	129	0	130	129	0	0	129	0
03/31/1985	3	147	0	0	0	0	0	0	0	0	0	0
04/30/1985	0	0	0	364	215	0	365	215	0	53	215	0
05/31/1985	0	261	0	0	261	0	0	261	0	0	261	0
06/30/1985	146	306	0	298	306	0	230	306	0	0	306	0
07/31/1985	70	53	250	184	0	250	184	0	250	70	53	250
08/31/1985	0	0	127	0	0	250	0	0	250	0	0	131
09/30/1985	0	0	89	0	0	250	0	0	245	0	0	93
10/31/1985	0	0	92	0	0	250	0	0	202	0	0	96
11/30/1985	0	0	107	0	0	250	0	0	250	0	0	110
12/31/1985	0	0	52	0	0	250	0	0	250	0	0	55
01/31/1986	0	124	0	0	75	143	0	77	143	0	60	0
02/28/1986	0	173	0	96	173	0	96	173	0	0	173	0
03/31/1986	38	114	0	0	53	0	0	52	0	0	0	0
04/30/1986	0	0	152	420	152	250	404	152	250	0	152	146
05/31/1986	0	0	206	420	0	250	420	0	250	70	86	250
06/30/1986	200	273	0	332	273	0	294	273	0	0	273	0
07/31/1986	200	322	0	420	322	180	420	322	180	200	322	0
08/31/1986	70	215	250	420	0	250	420	0	250	70	215	250
09/30/1986	200	291	0	420	291	61	420	291	84	200	291	0
10/31/1986	87	247	0	406	247	0	408	247	0	200	247	0
11/30/1986	3	166	0	190	166	0	191	166	0	14	166	0
12/31/1986	0	0	119	76	119	250	150	119	250	0	119	0
01/31/1987	0	0	40	0	0	208	0	0	209	0	0	41
02/28/1987	0	102	0	109	106	0	109	107	0	0	103	0
03/31/1987	0	147	0	0	0	0	0	0	0	0	0	0
04/30/1987	0	0	0	73	215	0	73	215	0	0	215	0
05/31/1987	0	261	0	116	261	0	116	261	0	0	261	0
06/30/1987	200	306	0	263	306	0	263	306	0	0	306	0
07/31/1987	70	111	250	420	0	250	420	0	250	70	111	250
08/31/1987	0	0	190	0	0	250	0	0	250	0	0	199
09/30/1987	0	0	128	0	0	250	0	0	250	0	0	137
10/31/1987	0	0	90	0	0	250	0	0	250	0	0	98
11/30/1987	0	0	71	0	0	250	0	0	250	0	0	77
12/31/1987	0	0	45	0	0	250	0	0	250	0	0	50
01/31/1988	0	121	0	116	129	0	116	130	0	0	125	0
02/29/1988	0	167	0	23	167	0	23	167	0	0	167	0
03/31/1988	0	181	0	0	0	0	0	0	0	0	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1988	0	116	0	46	201	0	46	202	0	0	198	0
05/31/1988	0	284	0	73	258	0	73	258	0	0	255	0
06/30/1988	0	326	0	0	326	163	0	326	163	0	326	0
07/31/1988	70	57	250	196	0	250	196	0	250	70	57	250
08/31/1988	70	11	250	0	0	214	0	0	214	0	0	120
09/30/1988	52	0	250	0	0	250	0	0	250	0	0	83
10/31/1988	5	0	250	0	0	250	0	0	250	0	0	63
11/30/1988	0	0	210	0	0	250	0	0	250	0	0	156
12/31/1988	0	0	192	0	0	250	0	0	250	0	0	157
01/31/1989	0	0	187	0	0	250	0	0	250	0	0	187
02/28/1989	0	206	0	0	206	52	0	206	52	0	206	0
03/31/1989	0	147	0	0	147	0	0	147	0	0	147	0
04/30/1989	0	215	0	177	215	0	177	215	0	0	215	0
05/31/1989	0	261	0	238	261	0	238	261	0	0	261	0
06/30/1989	146	306	0	400	306	0	400	306	0	0	306	0
07/31/1989	70	33	250	131	0	250	131	0	250	70	33	250
08/31/1989	0	0	188	35	0	250	35	0	250	63	0	250
09/30/1989	51	0	250	51	0	250	51	0	250	51	0	250
10/31/1989	6	0	250	6	0	250	6	0	250	6	0	250
11/30/1989	0	0	207	0	0	250	0	0	250	0	0	207
12/31/1989	0	0	182	0	0	250	0	0	250	0	0	182
01/31/1990	0	0	176	0	0	250	0	0	250	0	0	176
02/28/1990	0	173	0	77	173	0	77	173	0	0	173	0
03/31/1990	0	181	0	0	181	0	0	181	0	0	181	0
04/30/1990	0	206	0	0	233	0	0	233	0	0	233	0
05/31/1990	0	284	0	89	284	0	89	284	0	0	284	0
06/30/1990	70	6	250	57	0	250	57	0	250	57	0	250
07/31/1990	70	14	250	91	0	250	91	0	250	70	21	250
08/31/1990	70	11	250	81	0	250	81	0	250	70	11	250
09/30/1990	52	0	250	52	0	250	52	0	250	52	0	250
10/31/1990	5	0	250	5	0	250	5	0	250	5	0	250
11/30/1990	0	0	210	0	0	250	0	0	250	0	0	210
12/31/1990	0	0	192	0	0	250	0	0	250	0	0	192
01/31/1991	0	0	187	0	0	187	0	0	187	0	0	187
02/28/1991	0	206	0	0	206	48	0	206	48	0	206	0
03/31/1991	0	129	0	0	129	0	0	129	0	0	129	0
04/30/1991	0	233	0	48	233	0	48	233	0	0	233	0
05/31/1991	0	284	0	77	284	0	77	284	0	0	284	0
06/30/1991	70	6	250	76	0	250	76	0	250	70	6	250
07/31/1991	70	21	250	91	0	250	91	0	250	70	21	250

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/1991	70	11	250	81	0	250	81	0	250	70	11	250
09/30/1991	52	0	250	52	0	250	52	0	250	52	0	250
10/31/1991	5	0	250	5	0	250	5	0	250	5	0	250
11/30/1991	0	0	210	0	0	250	0	0	250	0	0	210
12/31/1991	0	0	192	0	0	250	0	0	250	0	0	192
01/31/1992	0	0	187	0	0	250	0	0	250	0	0	187
02/29/1992	0	0	199	0	0	250	0	0	250	0	0	199
03/31/1992	0	181	0	0	181	0	0	181	0	0	181	0
04/30/1992	0	233	0	46	233	0	46	233	0	0	233	0
05/31/1992	0	284	0	117	284	0	117	284	0	13	284	0
06/30/1992	0	276	250	0	326	91	0	326	91	0	326	0
07/31/1992	70	168	250	420	0	250	420	0	250	70	168	250
08/31/1992	0	0	194	0	0	250	0	0	250	0	0	246
09/30/1992	0	0	196	52	0	250	51	0	250	52	0	250
10/31/1992	5	0	250	5	0	250	5	0	250	5	0	250
11/30/1992	0	0	210	0	0	250	0	0	250	0	0	210
12/31/1992	0	0	192	0	0	250	0	0	250	0	0	192
01/31/1993	0	172	0	0	173	113	0	172	113	0	181	0
02/28/1993	0	206	0	272	206	0	272	206	0	0	206	0
03/31/1993	38	115	0	0	115	0	0	115	0	0	115	0
04/30/1993	0	167	0	197	167	0	197	167	0	0	167	0
05/31/1993	0	0	204	18	31	250	18	31	250	0	31	250
06/30/1993	200	296	0	400	296	0	400	296	0	0	296	0
07/31/1993	200	326	0	420	326	180	420	326	180	200	326	0
08/31/1993	70	217	250	420	0	250	420	0	250	70	217	250
09/30/1993	70	178	250	420	0	250	420	0	250	70	178	250
10/31/1993	70	255	0	420	255	160	420	255	160	200	255	0
11/30/1993	0	181	0	420	181	176	420	181	176	200	181	0
12/31/1993	0	0	163	188	0	250	188	0	250	70	25	250
01/31/1994	0	0	34	0	0	211	0	0	211	0	0	33
02/28/1994	0	88	0	127	83	0	127	83	0	0	87	0
03/31/1994	38	181	0	0	0	0	0	0	0	0	0	0
04/30/1994	0	0	0	111	233	0	111	233	0	0	233	0
05/31/1994	0	284	0	164	284	0	164	284	0	0	284	0
06/30/1994	200	326	0	325	326	0	325	326	0	0	326	0
07/31/1994	0	0	120	0	0	250	0	0	250	0	0	128
08/31/1994	0	0	60	0	0	250	0	0	250	0	0	66
09/30/1994	0	0	85	0	0	250	0	0	250	0	0	93
10/31/1994	0	0	187	0	0	203	0	0	202	0	0	70
11/30/1994	0	0	208	0	0	250	0	0	250	0	0	144

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
12/31/1994	0	0	191	0	0	250	0	0	250	0	0	191
01/31/1995	0	135	0	0	135	144	0	135	144	0	135	0
02/28/1995	0	206	0	295	206	0	295	206	0	0	206	0
03/31/1995	0	0	204	0	58	56	0	58	56	0	58	56
04/30/1995	0	0	152	296	152	250	296	152	250	0	152	146
05/31/1995	206	0	0	420	0	250	420	0	250	250	86	70
06/30/1995	146	273	0	339	273	0	306	273	0	0	273	0
07/31/1995	0	322	200	420	322	250	420	322	250	0	322	200
08/31/1995	200	335	0	420	335	250	420	335	250	200	335	0
09/30/1995	70	171	250	420	0	250	420	0	250	70	171	250
10/31/1995	98	247	0	420	247	180	420	247	180	200	247	0
11/30/1995	3	166	0	355	166	0	357	166	0	200	166	0
12/31/1995	0	110	0	351	119	0	259	119	0	200	119	0
01/31/1996	0	94	0	391	112	0	345	112	0	0	35	0
02/29/1996	0	86	0	246	4	0	246	1	0	0	0	0
03/31/1996	0	111	0	0	0	0	0	0	0	0	0	0
04/30/1996	0	0	0	290	152	250	295	152	250	0	152	146
05/31/1996	0	0	206	365	0	250	366	0	250	70	86	250
06/30/1996	131	273	0	332	273	0	230	273	0	0	273	0
07/31/1996	18	322	0	420	322	12	420	322	15	200	322	0
08/31/1996	70	30	250	420	0	250	420	0	250	70	117	250
09/30/1996	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1996	6	247	0	399	247	0	400	247	0	7	247	0
11/30/1996	0	163	0	347	166	0	374	166	0	0	163	0
12/31/1996	0	100	0	351	119	0	380	119	0	0	98	0
01/31/1997	98	0	0	420	112	250	420	112	250	0	95	0
02/28/1997	0	0	132	97	129	250	146	129	250	0	129	0
03/31/1997	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1997	0	0	0	67	152	250	68	152	250	0	152	87
05/31/1997	0	0	206	276	0	250	278	0	250	0	0	222
06/30/1997	141	273	0	332	273	0	230	273	0	0	273	0
07/31/1997	0	322	18	181	322	250	184	322	250	0	322	41
08/31/1997	70	30	250	420	0	250	420	0	250	70	33	250
09/30/1997	53	0	250	420	0	250	420	0	250	56	0	250
10/31/1997	6	247	0	405	247	0	406	247	0	7	247	0
11/30/1997	0	161	0	347	166	0	335	166	0	0	160	0
12/31/1997	0	117	0	351	119	0	398	119	0	0	116	0
01/31/1998	0	59	0	192	112	0	192	112	0	0	56	0
02/28/1998	0	0	55	0	0	250	0	0	250	0	0	60
03/31/1998	0	114	2	0	0	0	0	0	0	0	0	0

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
04/30/1998	0	0	0	263	152	250	268	152	250	0	152	119
05/31/1998	0	0	206	364	0	250	364	0	250	0	0	216
06/30/1998	179	273	0	400	273	0	400	273	0	0	273	0
07/31/1998	0	322	18	420	322	250	420	322	250	0	322	41
08/31/1998	16	335	0	420	335	250	420	335	250	20	335	0
09/30/1998	12	291	0	420	291	250	420	291	250	15	291	0
10/31/1998	7	247	0	406	247	0	406	247	0	9	247	0
11/30/1998	0	166	0	420	166	250	420	166	250	0	166	0
12/31/1998	0	110	0	351	119	0	259	119	0	0	108	0
01/31/1999	0	110	0	391	112	0	345	112	0	0	110	0
02/28/1999	4	129	0	319	129	0	319	129	0	0	129	0
03/31/1999	0	114	0	0	0	0	0	0	0	0	0	0
04/30/1999	0	0	0	420	152	13	420	152	15	83	152	0
05/31/1999	0	0	206	222	0	250	223	0	250	0	0	222
06/30/1999	137	273	0	332	273	0	230	273	0	0	273	0
07/31/1999	18	322	0	420	322	5	420	322	7	40	322	0
08/31/1999	70	30	250	420	0	250	420	0	250	70	34	250
09/30/1999	0	291	12	159	291	250	160	291	250	0	291	15
10/31/1999	7	247	0	365	247	0	365	247	0	9	247	0
11/30/1999	0	166	0	180	166	0	180	166	0	0	166	0
12/31/1999	0	0	122	88	119	250	88	119	250	0	119	4
01/31/2000	0	0	46	0	0	214	0	0	213	0	0	49
02/29/2000	0	119	0	259	120	0	259	120	0	0	120	0
03/31/2000	16	115	0	0	0	0	0	0	0	0	0	0
04/30/2000	0	0	0	110	167	250	114	167	250	0	167	142
05/31/2000	0	0	204	189	0	250	191	0	250	0	0	219
06/30/2000	200	296	0	295	296	0	230	296	0	0	296	0
07/31/2000	20	326	0	420	326	8	420	326	11	41	326	0
08/31/2000	70	33	250	420	0	250	420	0	250	70	36	250
09/30/2000	60	0	250	420	0	250	420	0	250	63	0	250
10/31/2000	0	255	0	364	255	0	365	255	0	0	255	0
11/30/2000	7	181	0	363	181	0	364	181	0	9	181	0
12/31/2000	0	0	167	232	0	250	233	0	250	0	0	167
01/31/2001	0	0	44	0	0	206	0	0	205	0	0	48
02/28/2001	0	122	0	105	122	0	105	122	0	0	122	0
03/31/2001	34	147	0	0	0	0	0	0	0	0	0	0
04/30/2001	0	0	0	224	215	0	224	215	0	146	215	0
05/31/2001	0	261	0	124	261	0	124	261	0	0	261	0
06/30/2001	200	306	0	278	306	0	278	306	0	0	306	0
07/31/2001	70	77	250	259	0	250	259	0	250	70	77	250

TABLE C4-12:
CCWD DIVERSIONS (CFS), 2030 LOD

	Future No Project			2030 LOD Alternative 1			2030 LOD Alternative 2			2030 LOD Alternative 4		
Date	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River & New Delta Intakes [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]	Old River [CFS]	Rock Slough [CFS]	Victoria Canal / AIP [CFS]
08/31/2001	0	0	168	0	0	250	0	0	250	0	0	181
09/30/2001	0	0	153	0	0	250	0	0	250	0	0	166
10/31/2001	0	0	99	0	0	250	0	0	250	0	0	110
11/30/2001	0	0	86	0	0	250	0	0	250	0	0	96
12/31/2001	0	0	76	0	0	250	0	0	250	0	0	85
01/31/2002	0	176	0	127	176	0	127	176	0	0	176	0
02/28/2002	200	173	0	87	173	0	183	173	0	0	173	0
03/31/2002	38	147	0	0	0	0	0	0	0	0	0	0
04/30/2002	0	0	0	409	215	0	409	215	0	146	215	0
05/31/2002	0	232	0	298	238	0	298	236	0	0	234	0
06/30/2002	200	306	0	400	306	0	400	306	0	0	306	0
07/31/2002	30	0	250	36	0	250	35	0	250	34	0	250
08/31/2002	0	0	87	0	0	250	0	0	250	0	0	105
09/30/2002	1	0	250	0	0	250	0	0	250	0	0	82
10/31/2002	6	0	250	0	0	250	0	0	250	0	0	116
11/30/2002	0	0	207	0	0	250	0	0	250	0	0	102
12/31/2002	0	0	178	0	0	250	0	0	250	0	0	59
01/31/2003	200	176	0	345	176	0	345	176	0	200	176	0
02/28/2003	200	173	0	308	173	0	308	173	0	64	173	0
03/31/2003	38	115	0	0	115	0	0	115	0	0	15	0
04/30/2003	0	114	0	262	167	0	262	167	0	146	167	0
05/31/2003	0	204	0	122	204	250	121	204	250	0	204	200
06/30/2003	200	296	0	248	296	0	249	296	0	0	296	0
07/31/2003	70	206	250	420	0	250	420	0	250	70	206	250
08/31/2003	70	171	250	420	0	250	420	0	250	70	217	250
09/30/2003	60	0	250	420	0	250	420	0	250	70	178	250

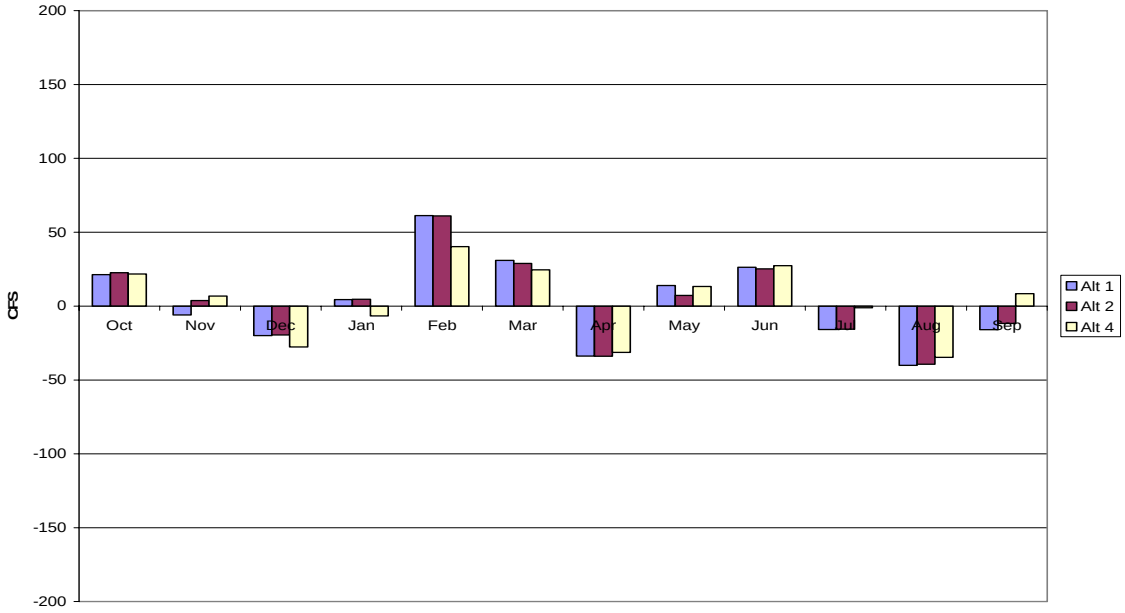

Figure C4-21: Changes in Average Monthly Sacramento River at Hood flow, 2030 LOD

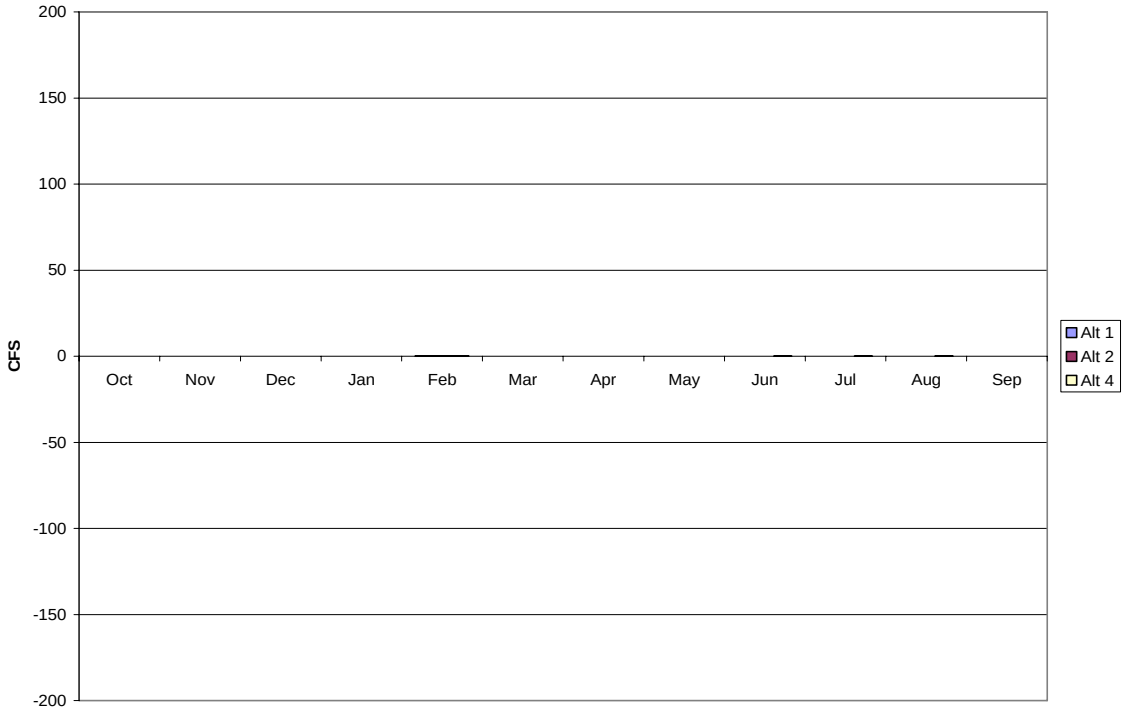

Figure C4-22: Changes in Average Monthly San Joaquin River at Vernalis Flow, 2030 LOD

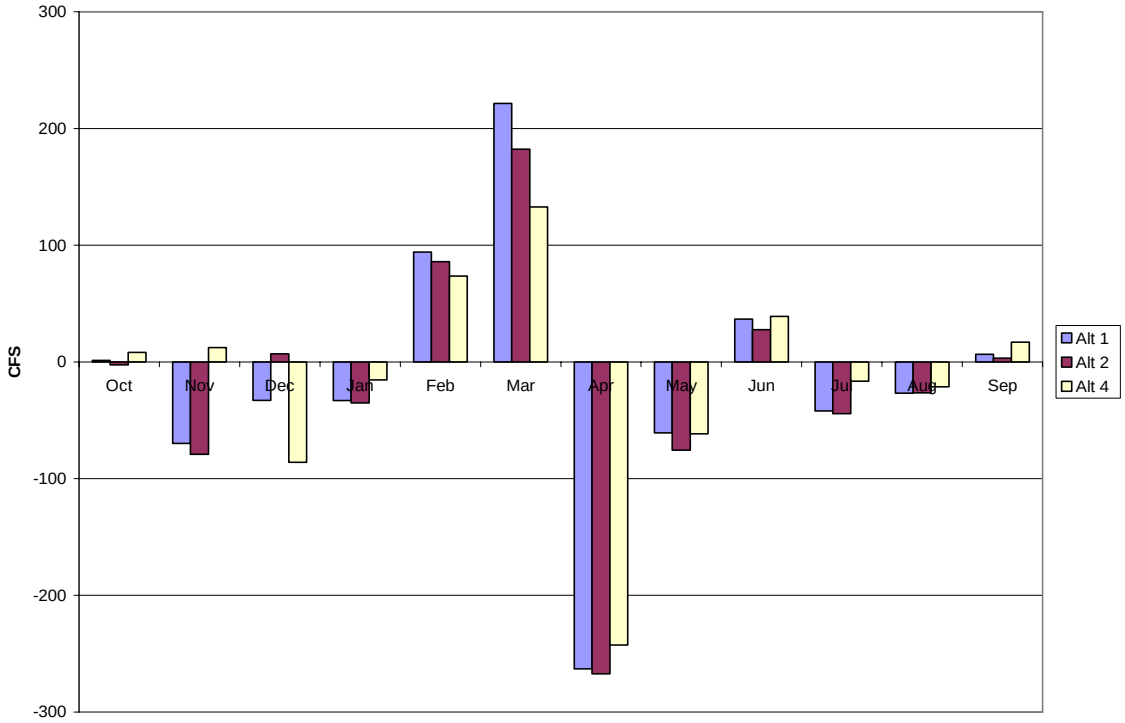

Figure C4-23: Changes in Average Monthly Delta Outflow, 2030 LOD

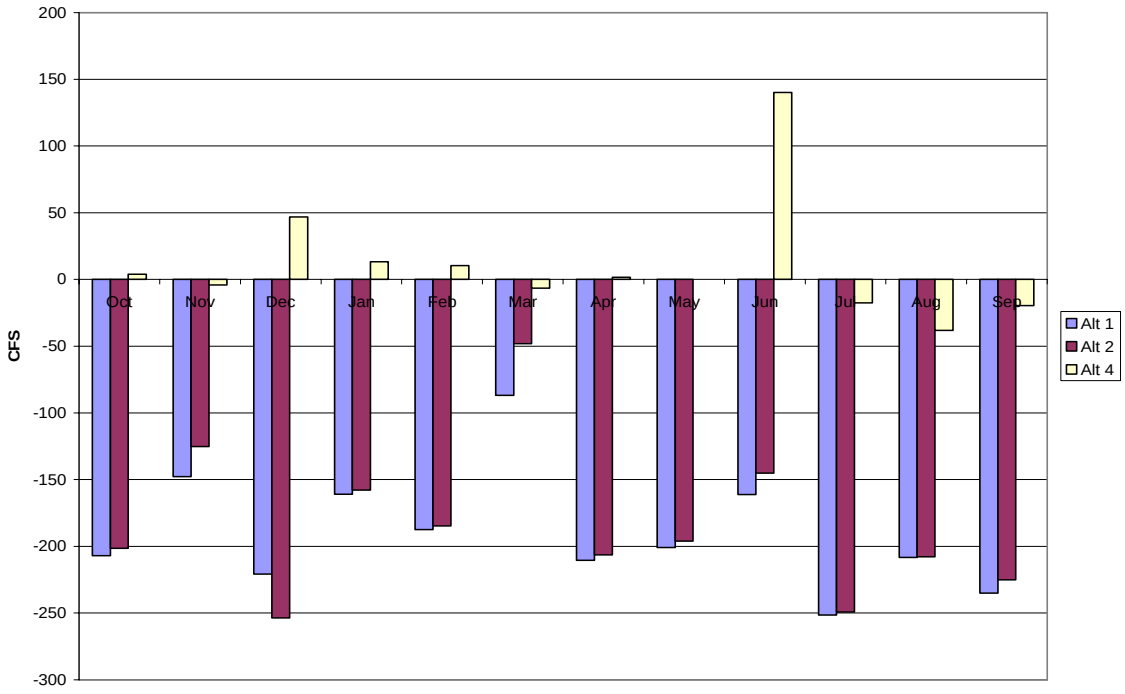

Figure C4-24: Changes in Average Monthly Banks + Jones Diversions, 2030 LOD

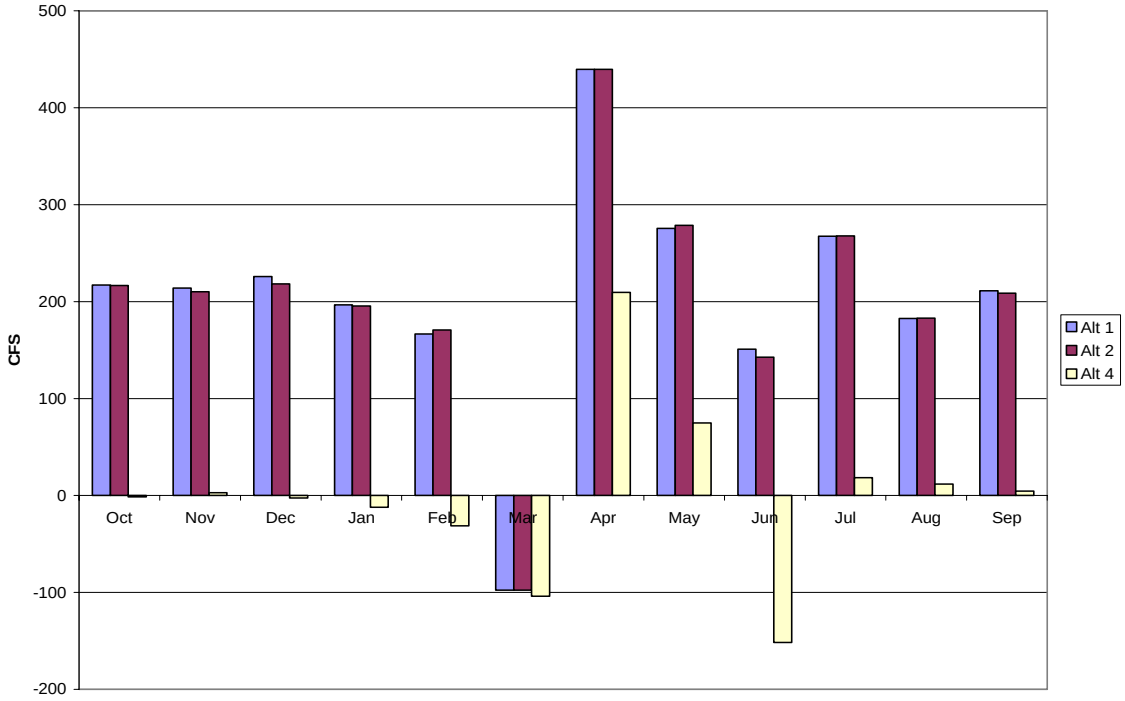

Figure C4-25: Changes in Average Monthly CCWD + LV Diversions, 2030 LOD

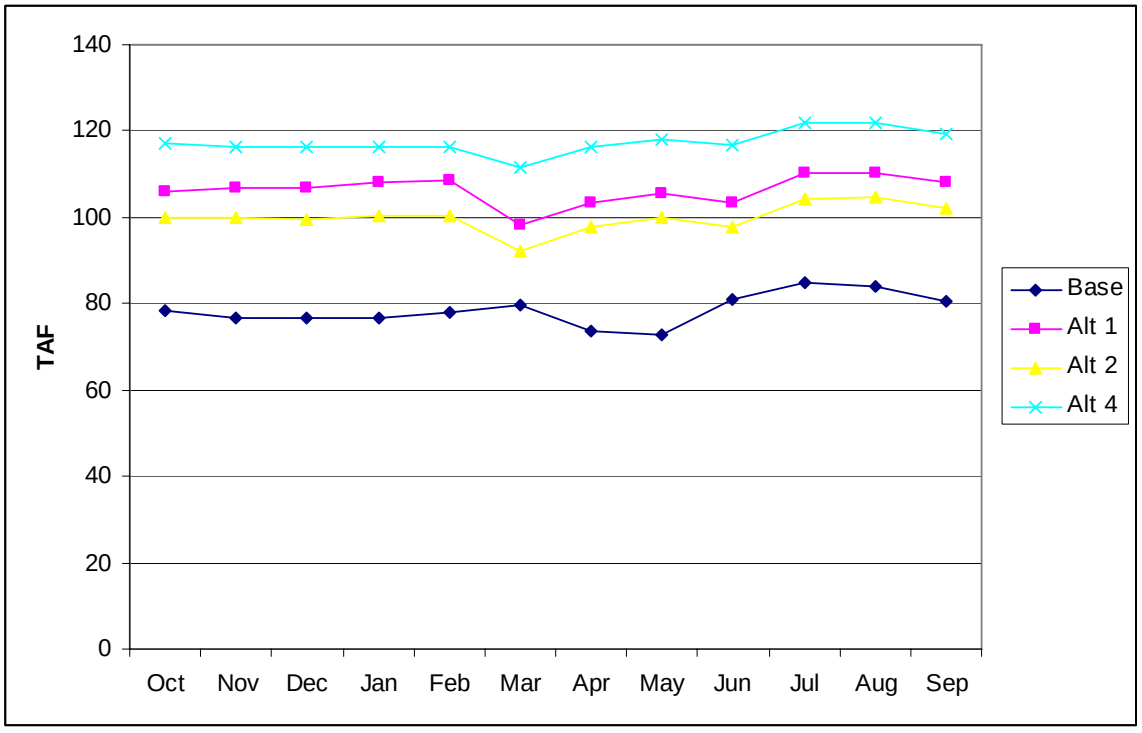

Figure C4-26: Monthly Average Los Vaqueros storage, 2030 LOD

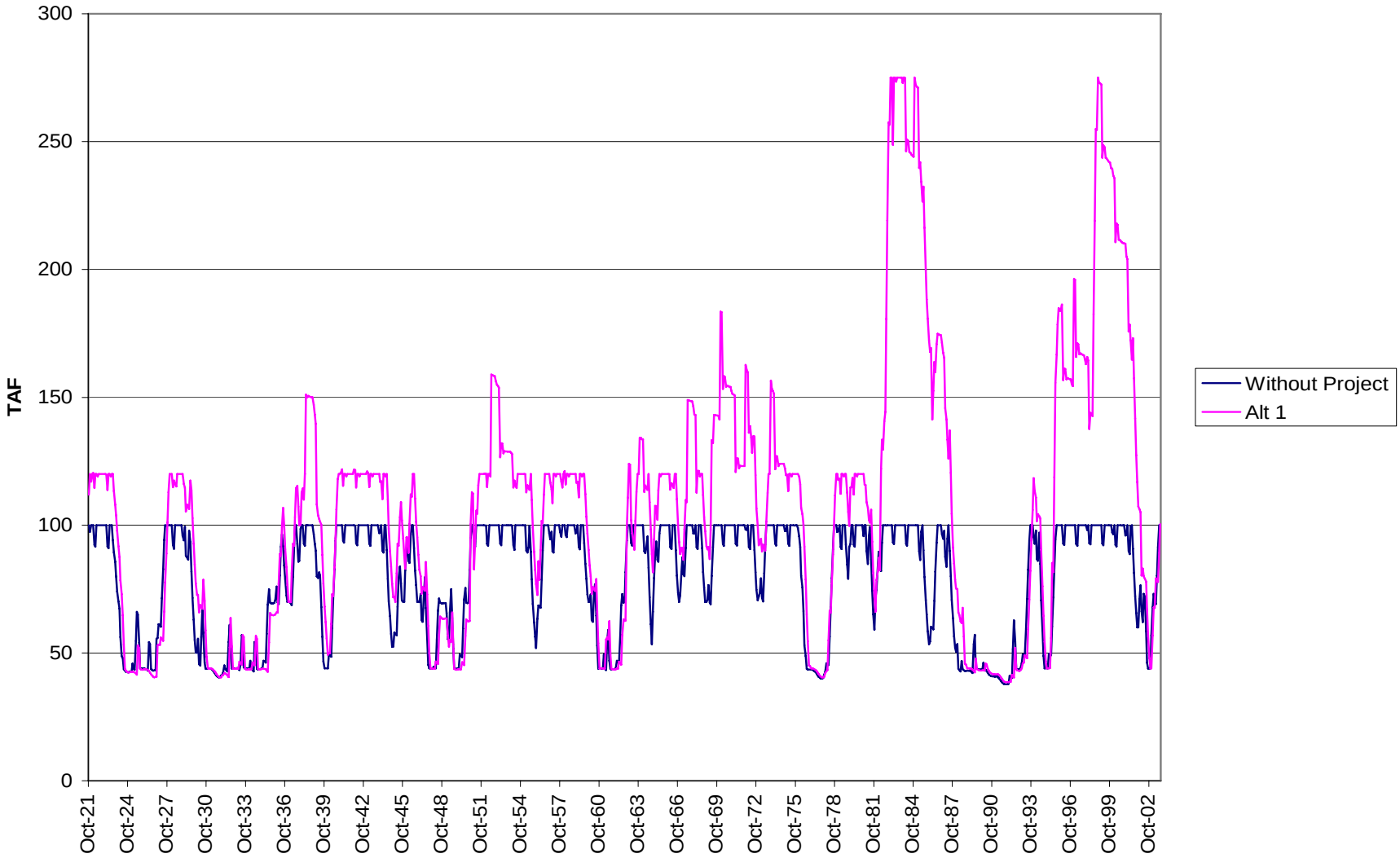

Figure C4-27: Timeseries of Alternative 1 and Base Los Vaqueros storage 2030 LOD

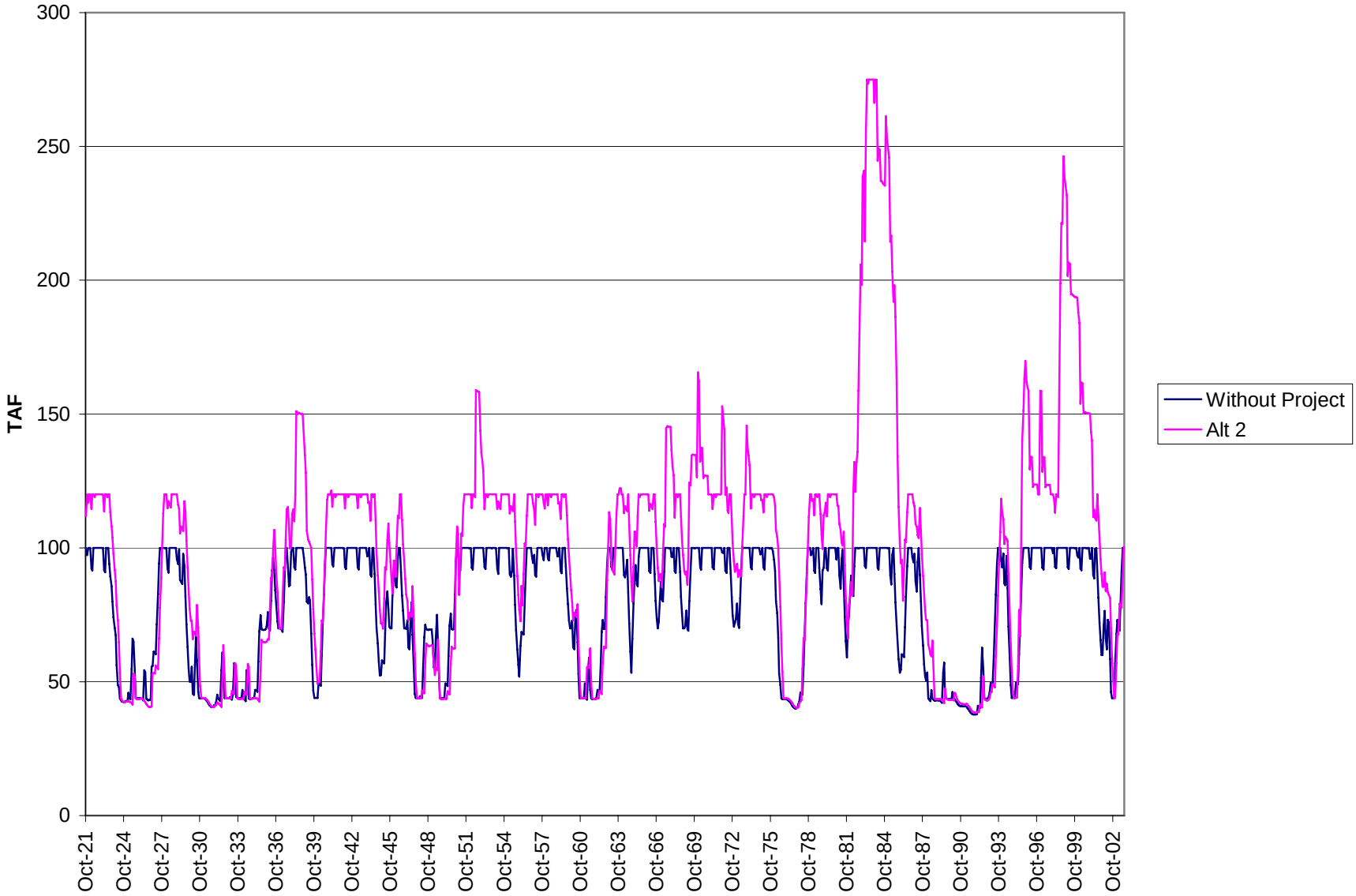

Figure C4-28: Timeseries of Alternative 2 and Base Los Vaqueros storage 2030 LOD

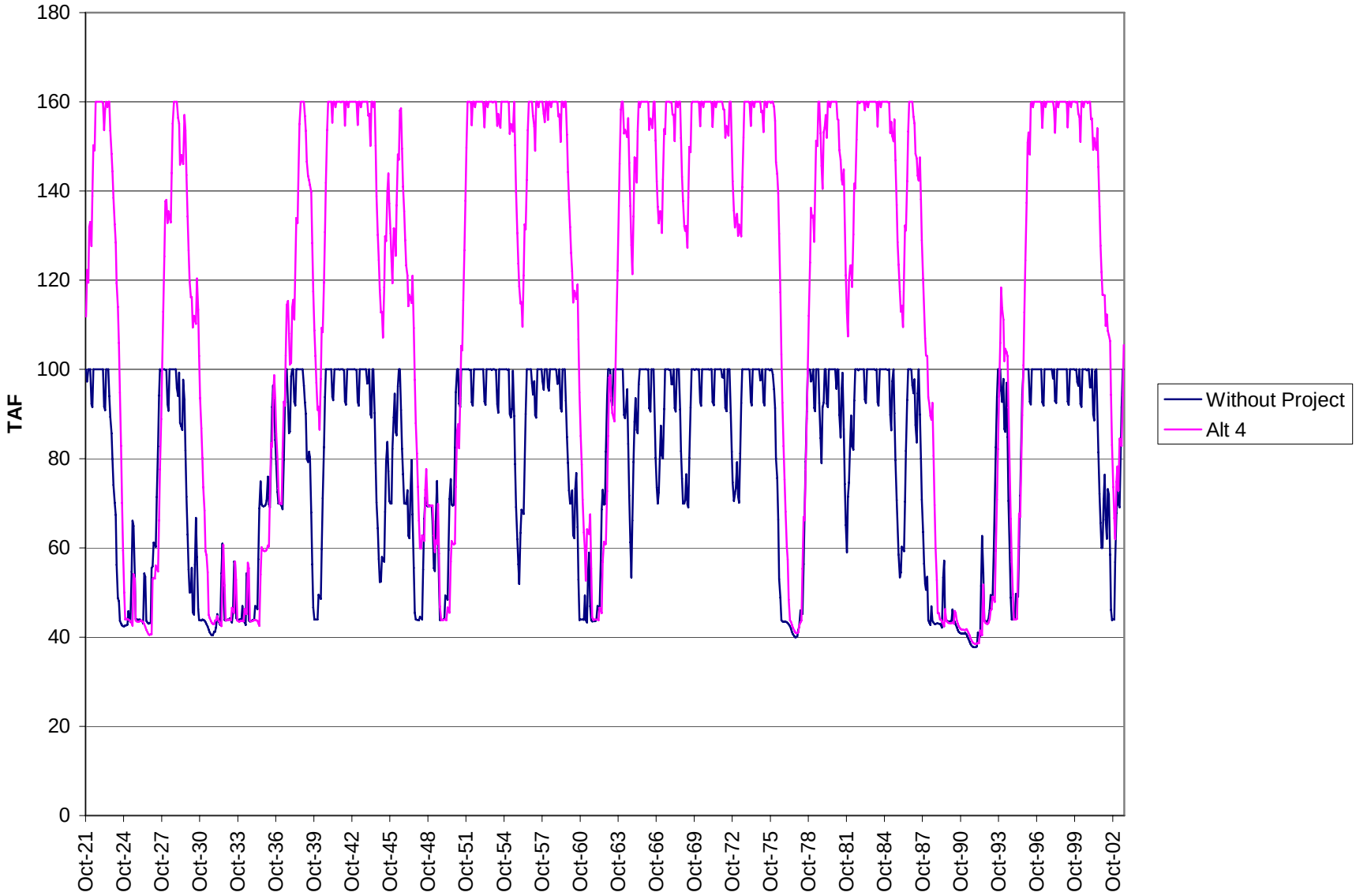

Figure C4-29: Timeseries of Alternative 4 and Base Los Vaqueros storage 2030 LOD

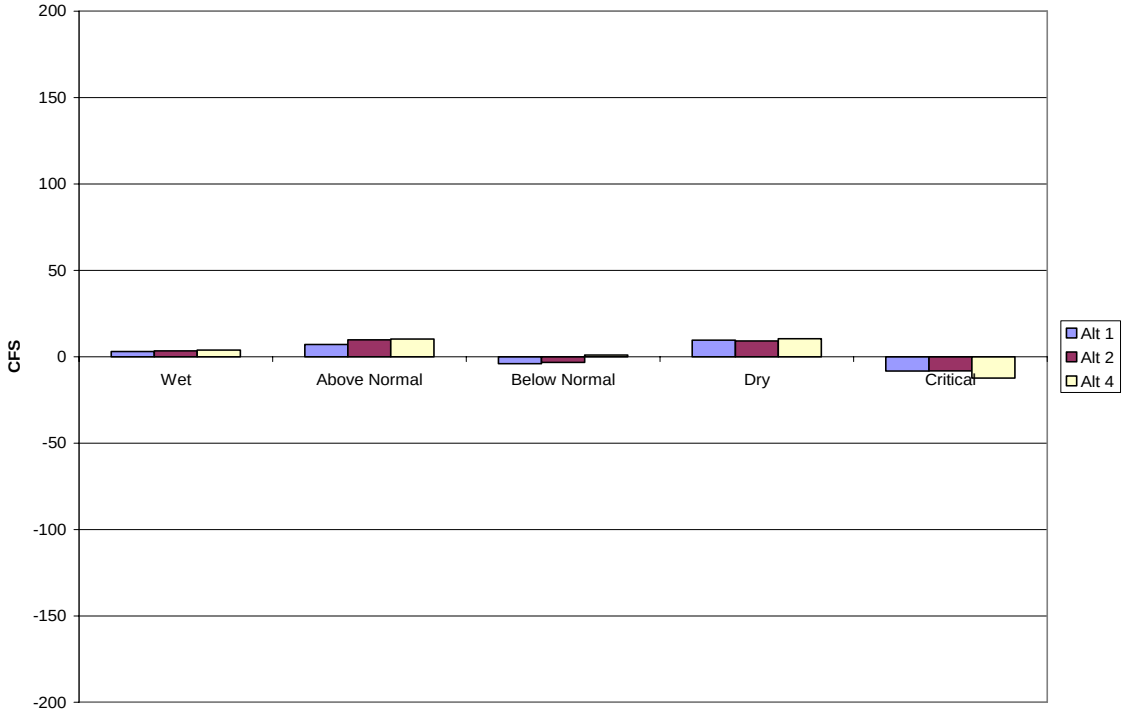

Figure C4-30: Changes in Sacramento River at Hood flow by water year type, 2030 LOD

Figure C4-31: Changes in San Joaquin River at Vernalis flow by water year type, 2030 LOD

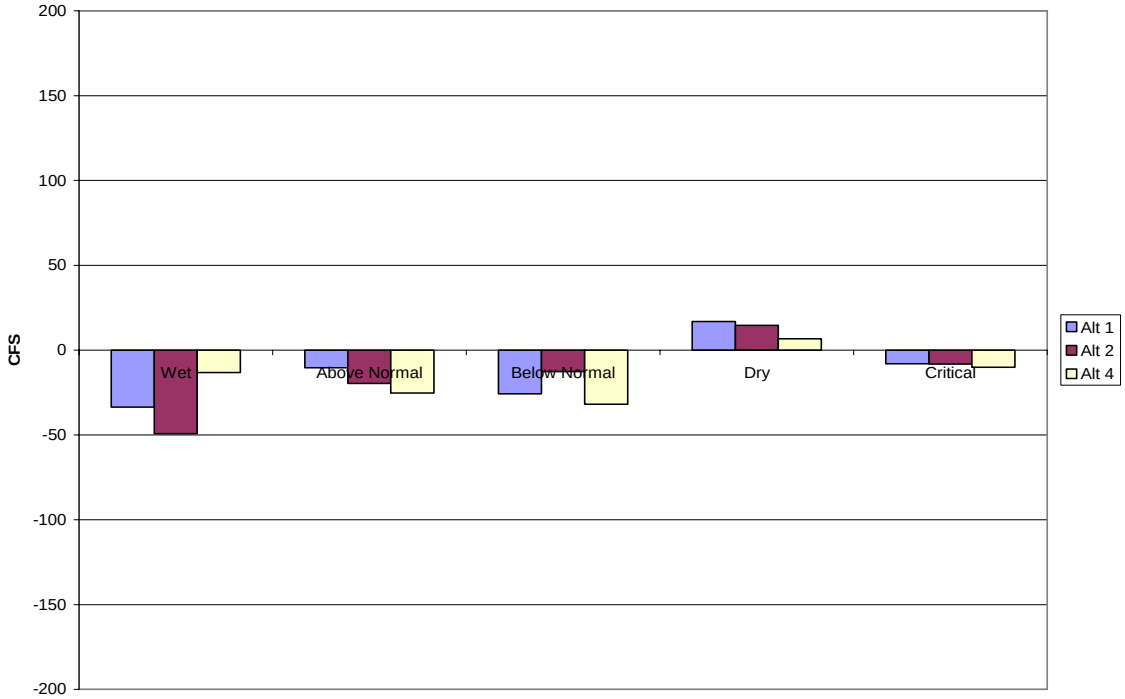

Figure C4-32: Changes in Delta Outflow by Year Type, 2030 LOD

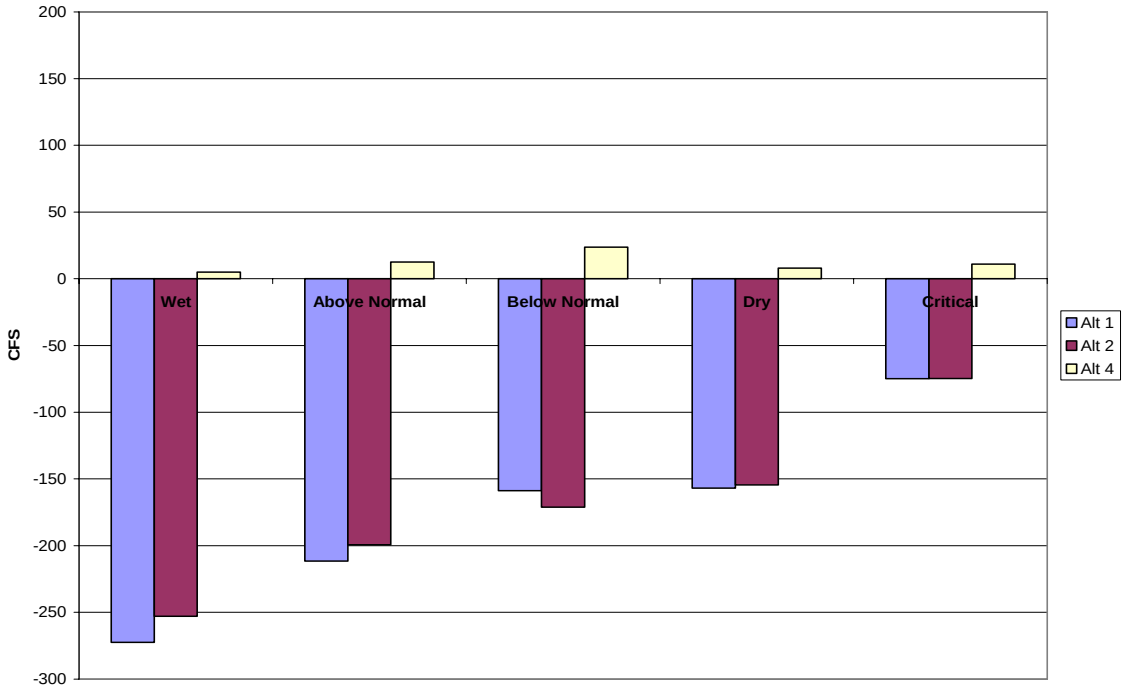

Figure C4-33: Changes in Banks + Jones Diversions by Year Type, 2030 LOD

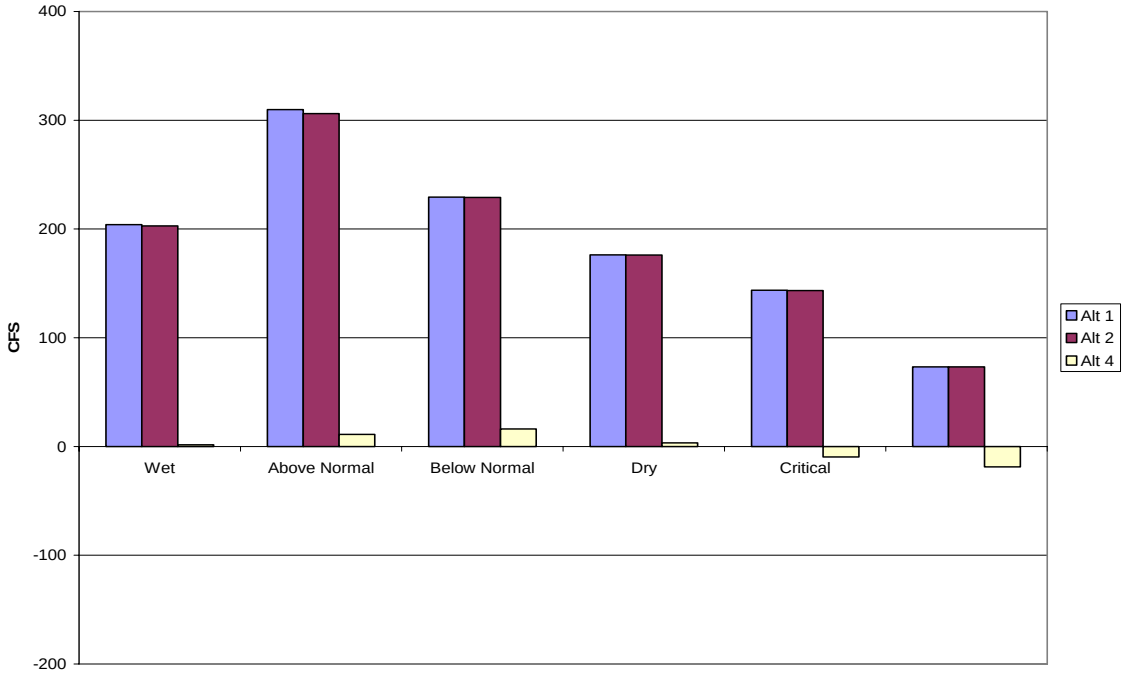

Figure C4-34: Changes in Project diversions by water year type, 2030 LOD

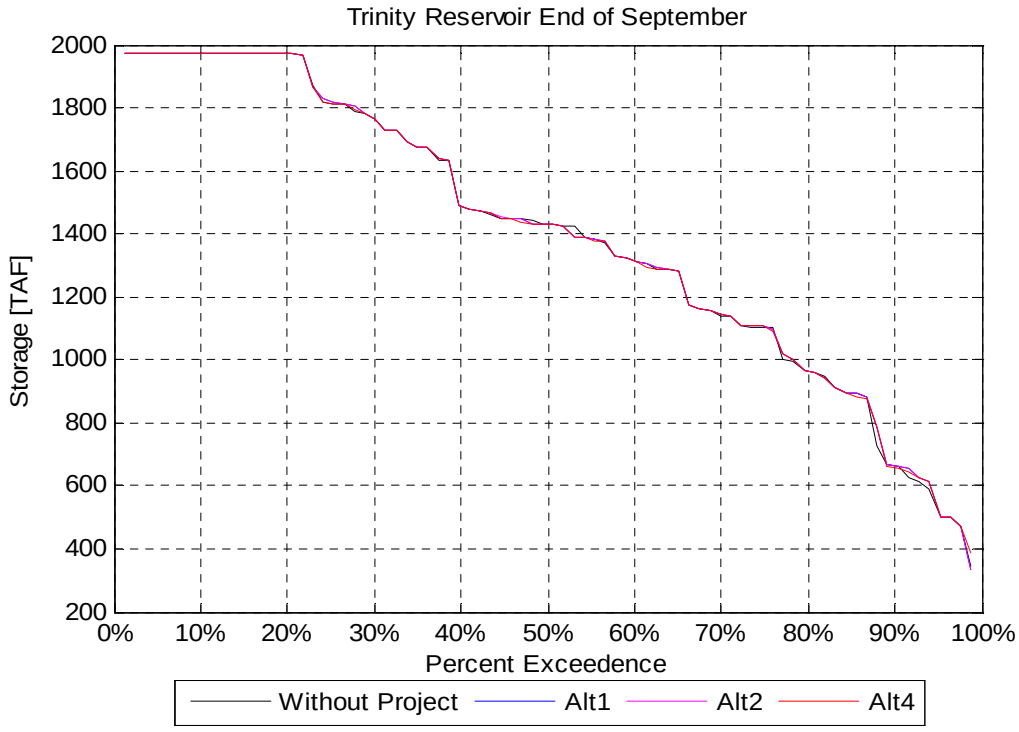

Figure C4-35: Trinity Reservoir end of September storage, 2030 LOD

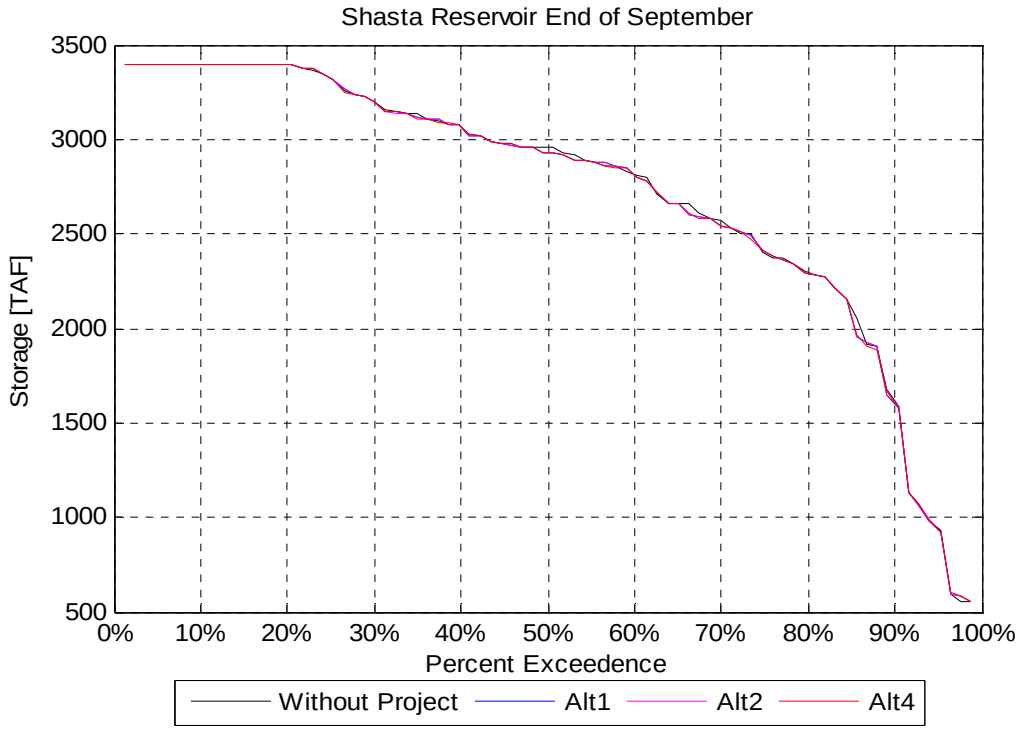

Figure C4-36: Shasta Reservoir end of September storage, 2030 LOD

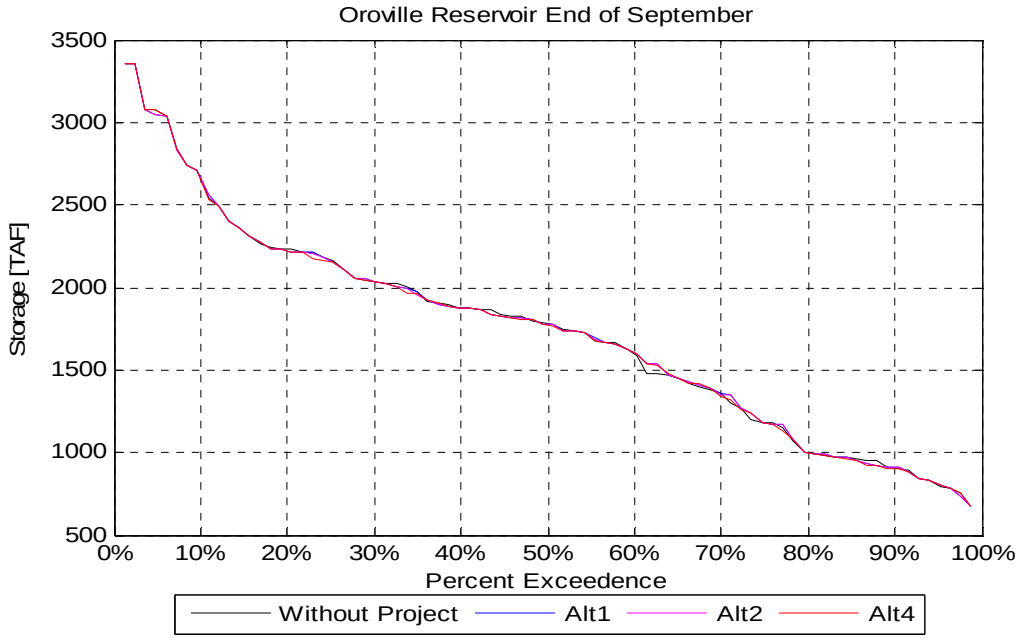

Figure C4-37: Oroville Reservoir end of September storage, 2030 LOD

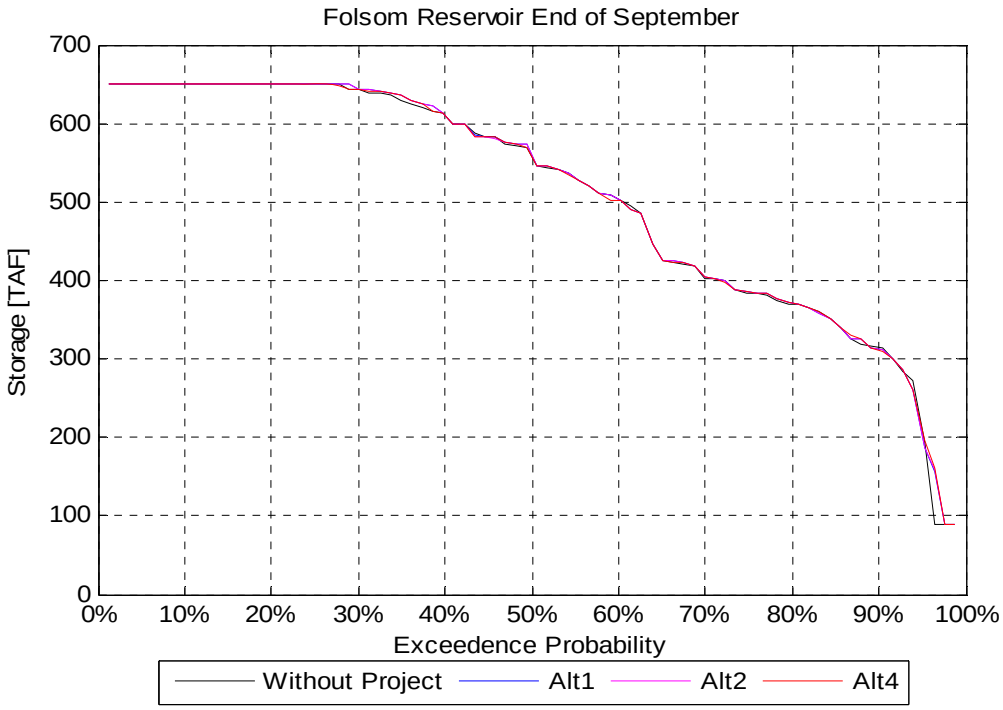

Figure C4-38: Folsom Reservoir end of September storage, 2030 LOD

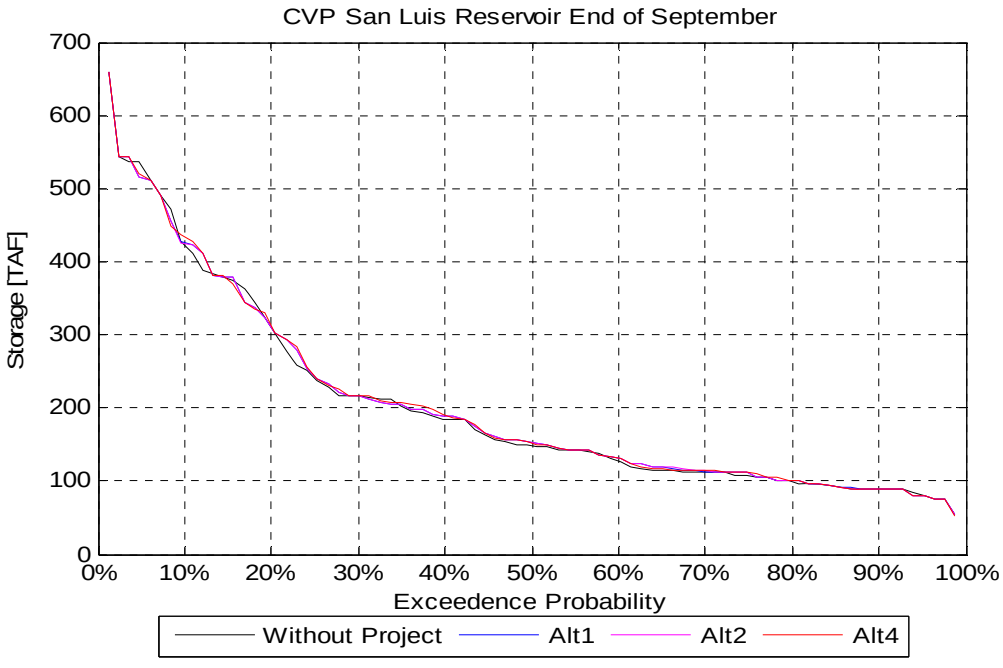

Figure C4-39: CVP San Luis Reservoir end of September storage, 2030 LOD

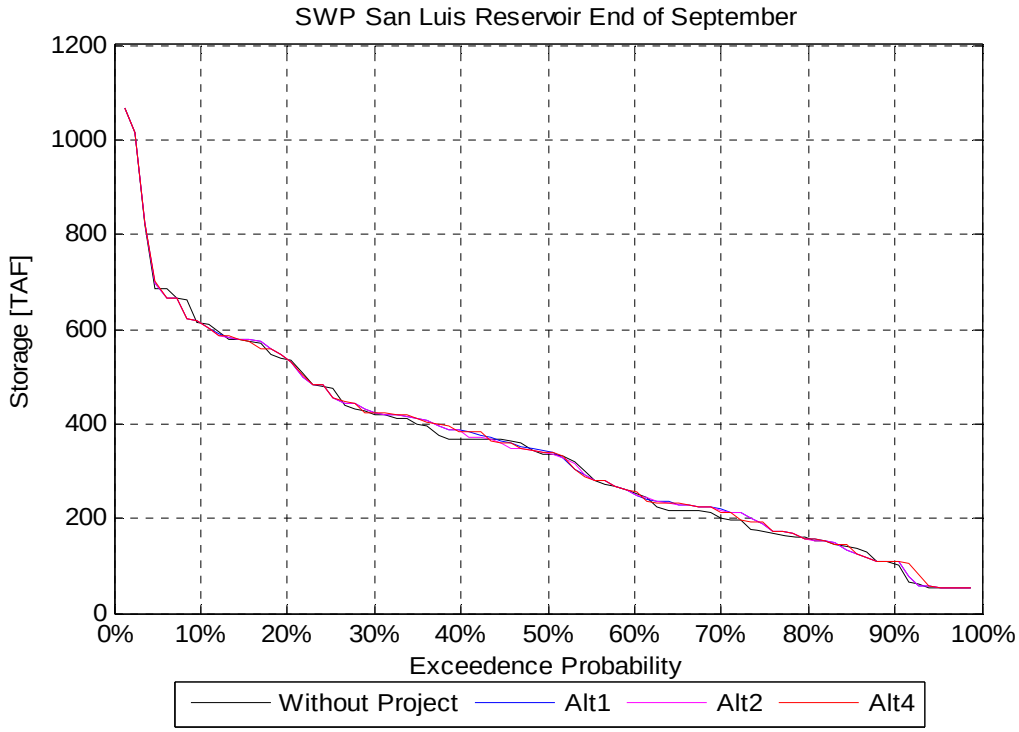

Figure C4-40: SWP San Luis Reservoir end of September storage, 2030 LOD